

How to select tool holding

- 1

Select tool assembly method
 - For modular or solid, from the table of content on page G6.
- 2

Select an adaptor style
 - Use the programme overview for the system to choose an adaptor based on the type of machining and machine tool application.
 - Coromant Capto® rotating, page G6
- 3

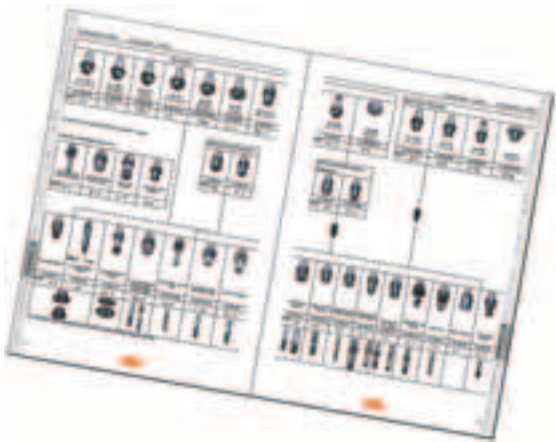
Select a coupling size

Turn to the ordering page and

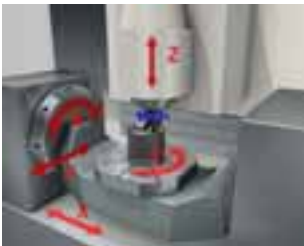
 - Select the right coupling size
 - Select adaptor for assembly
- 4

Select basic holder
 - Use the programme overview to choose a holder based on machine type.
 - Select the right coupling type and taper size.
- 5

Add extensions if necessary when using Coromant Capto®
 - Add extensions where needed to complete gauge length requirements. Use the programme overview to find suitable extension.



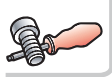
For more technical information, see our Metalcutting Technical guide



Symbols for page references:



How to choose tool, overview



Spare parts/accessories



Tool holding Systems, overview



Conversion table, formulas and definitions

TOOLING SYSTEMS

Tooling guide

Machining centres

G4

Products

For machining centres - rotating tools

Modular tools - Coromant Capto®

Tool holder overview

G6

Basic holders

G8

Extension/reduction adaptors

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Tool adaptors

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Solid tools

Solid holding tools - Overview

G48

HSK solid holding tools - Overview

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Hydro-Grip® high precision chuck

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Modular tools - Coromant Capto®

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Coromant solid holding tools

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HSK solid holding tools

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Holders for exchangeable head system

Coromant Capto adaptor

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Solid holder

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HSK solid holder

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Bridge port holder

G103

Cylindrical holder

D226

Tapping holders

Overview

G105

SynchroFlex® ER tapping chuck

G106

Quick change tapping chuck

G111

Floating rubber collet chuck

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Tool holders for CoroMill modular tools with threaded coupling

G119

Spare parts and accessories

G126

For turning centres - non rotating tools

See main catalogue for turning tools.

Coromant Capto®

Tooling system

Machine tool interface and true modular tooling system



Coromant Capto® - the coupling

Provides a unique combination of properties:

- high torque transmission
- high bending strength
- balanced and concentric
- self centering
- high basic stability and accuracy
- flexibility with extensive modularity
- quick-change and automated tool change
- through-tool delivery of coolant, from machine to cutting edge



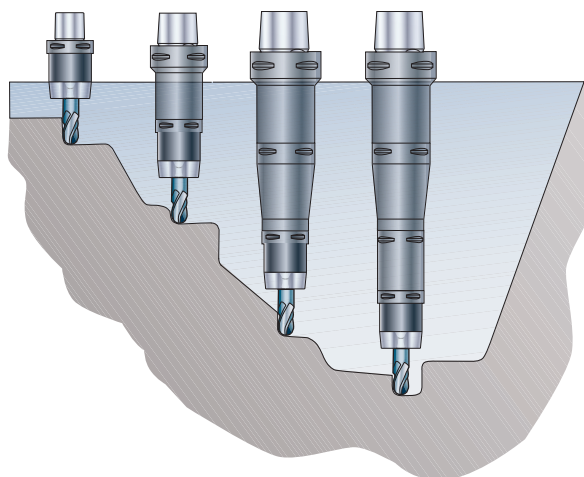
Fulfills the needs of a tooling system in all machine types:

- lathes and turning centres - quick-change, modular tooling and high pressure coolant delivery.
- multi-task machines and machining centres - rotating spindle interface and modular tooling.

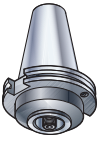
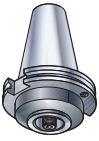
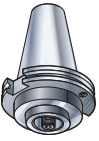
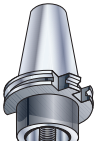
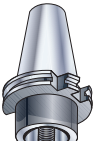
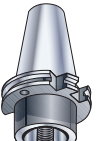
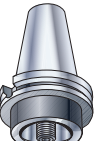
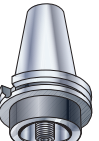
The right combination is the optimum solution

Coromant Capto® modular holding tools

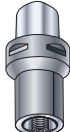
- When changing production there is a demand for flexibility from the tool holding system, as different component sizes often lead to varying gauge lengths. Coromant Capto allows the correct length of tool to be built, in order to maintain maximum performance.
- When tooling is required for a variety of machines with different taper size or designs.
- When component complexity demands a high number of special tools.
- Coromant Capto offers significant reductions in tool inventory and makes it possible to have only one standard system of modular tools for a variety of operations on lathes and machining centres.



D
E
F
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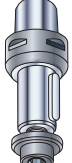
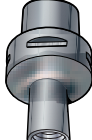
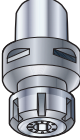
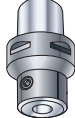
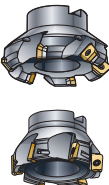
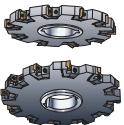
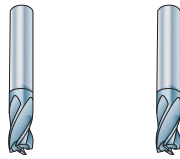
Basic holders							
							
Cat V-Flange	Cat V-Flange DIN 69871 Form B	BIG-PLUS Cat V-Flange 90° rotated	ISO 7388/1	BIG-PLUS ISO 7388/1	DIN 69871 Form B	MAS BT	BIG-PLUS MAS BT 90° rotated
Cx-A390.45	Cx-A390.455	Cx-A390.545/ 546/547	Cx- 390.140	Cx-390.540	Cx-390.272	Cx-390.55/58	Cx-390.555/558/ 562/605
Page G19	G20	G21	G8	G10	G11	G12	G13

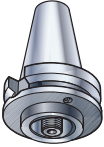
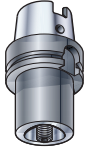
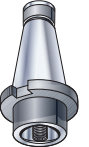
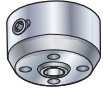
Integrated Coromant Capto® tools		
		
Milling Chapter D	Drilling Chapter E	Boring Chapter F

Extension/reduction adaptors	
	
Cx-391.01	Cx-391.02
Page G26	G27

Coromant capto adaptors for exchangeable - head milling system, see page G97.

Tool holding for turning and multi-task machines, see main catalogue for turning tools.

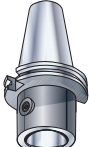
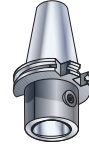
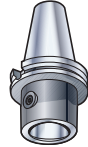
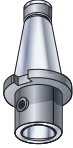
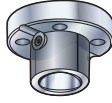
								
Face mill adaptor	Hydro-Grip face mill adaptor	Silent Tools® Dampened milling adaptor	Side and face mill adaptor	Exchangeable head system EH for CoroMill® 316	Hydro-Grip® slender/pencil/ Heavy Duty	Shrink fit adaptor	Collet chuck adaptor	Weldon shank adaptor
Cx391.05C/ Cx-A391.05C	Cx-391.05CG	Cx391.05CD/ Cx-A391.05CD	Cx-391.10/Cx-A391.10	Cx-391.EH	Cx-391.CGB/ CGC/CGD/ CGA	Cx-391.19	Cx-391.14	Cx-391.20 Cx-A391.20
Page G29	G87	G33	G35	G99	G86	G38	G37	G40
								

			
MAS BT Form B	HSK 50,63,100 & 125-A/C HSK 80-F	DIN 2080 NMTB Form B	Camshaft DIN 2079
Cx-390.369	Cx-390.410/ 419/ 612	Cx- 390.00 Cx-A390.00	Cx-390.34705
Page G15	G16	G23	G24

Extension/reduction adaptors	
Front clamp	
	
Cx-391.04	Cx-391.0204
Page G28	G28

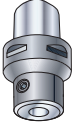
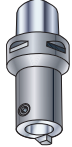
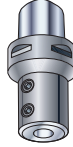


Page G128

Basic holders Front clamp		
		
Cat V-Flange	ISO 7388/1	MAS BT
Cx-A390.4504	Cx-390.14004	Cx-390.5504 / .5804
Page G20	G9	G12
		
NMTB DIN 2080	DIN 2079	Blank adaptor
Cx-390.0004 Cx-A390.004	Cx-390.34704	Cx-391.50
Page G23	G24	G47



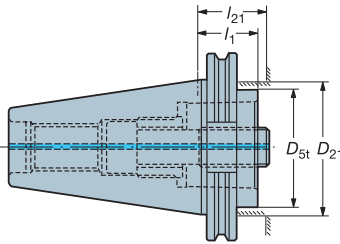
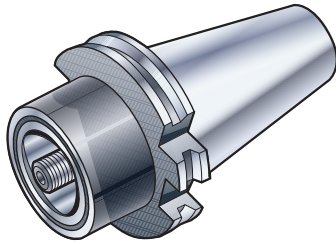
Page G128

								
Whistle Notch shank adaptor	Weldon / Drill shank / ISO 9766	Whistle Notch drill adaptor	Drill adaptor ISO 9766	Adjustable drill adaptor	Drill chuck	SynchroFlex® ER tapping chuck	Quick change tapping chuck	Floating rubber collet chuck
Cx-391.21	Cx-391.23	Cx-391.25	Cx-391.27	Cx-391.277	Cx-391.31	Cx-391.62/63	Cx-391.60/.61	Cx-391.60B
G42	G43	G45	G44	E129	G47	G106	G111	G116
								

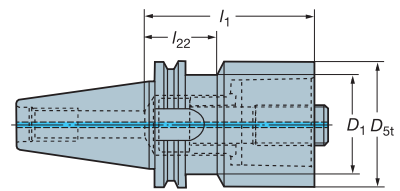
Basic holder

ISO 7388/1 (DIN 69871-A)

390.140



For light machining only.



C6-390.140-40 085

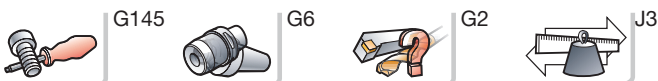
 l_1 = programming length

Metric thread

Taper	Coupling size	Ordering code	Coolant ¹⁾	Dimensions, mm								Balanced by design
				D_{5t}	D_1	D_{21} max	l_1	l_{21} min	l_{22}	D_{th}	$\frac{\Delta}{\mu m}$	
30	C3	C3-390.140-30 030	1	32		45	30	35		12	0.5	
30		C3-390.140-30 060	1	32		45	60	35		12	0.7	
40		C3-390.140-40 030	1	32		50	30	35		16	0.8	⊙
40		C3-390.140-40 060	1	32		50	60	35		16	1.2	⊙
50		C3-390.140-50 030	1	32		80	30	35		24	2.6	
50		C3-390.140-50 060	1	32		80	60	35		24	2.8	
40	C4	C4-390.140-40 030	1	40		50	30	35		16	0.8	⊙
40		C4-390.140-40 060	1	40		50	60	35		16	1.2	⊙
50		C4-390.140-50 030	1	40		80	30	35		24	2.6	
50		C4-390.140-50 060	1	40		80	60	35		24	2.8	
40	C5	C5-390.140-40 030	1	50		50	30	35		16	0.8	⊙
40		C5-390.140-40 070	1	50		50	70	35		16	1.2	⊙
50		C5-390.140-50 030	1	50		80	30	35		24	2.6	
50		C5-390.140-50 070	1	50		80	70	35		24	2.8	
40	C6	C6-390.140-40 085	1	63	50		85		35	16	2.3	
50		C6-390.140-50 030	1	63		80	30	35		24	2.6	
50		C6-390.140-50 080	1	63		80	80	35		24	3.7	
50	C8	C8-390.140-50 070	1	80		80	70	35		24	3.9	
50		C8-390.140-50 120	1	80		80	120	35		24	5.5	
60	C10	C10-390.140-60 050	1	100		130	50	38		30	9.2	

¹⁾ 1 = coolant through centre

Note! Tighten the screw with a torque wrench. Information on page G131.

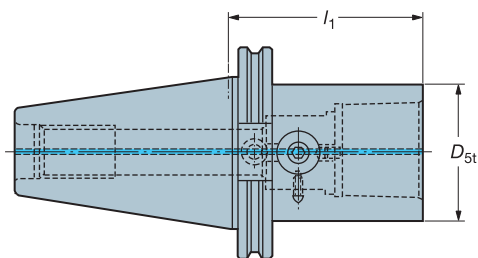
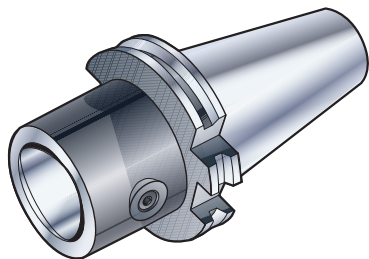


Basic holder

ISO 7388/1 (DIN 69871-A)

Front clamp

390.14004



Note! One drawbolt for each adaptor/cutting tool is required.

l_1 = programming length

Metric thread

Taper	Coupling size	Ordering code	Coolant ¹⁾	Dimensions, mm		
				D_{st}	l_1	
40	C5	C5-390.14004-40 080	1	50	80	1.6
50		C5-390.14004-50 080	1	50	80	3.3
50	C6	C6-390.14004-50 090	1	63	90	3.9
50	C8	C8-390.14004-50 105	1	80	105	4.3

¹⁾ 1 = coolant through centre

Note! Tighten the screw with a torque wrench. Information on page G131.

For drawbolt, see page G128



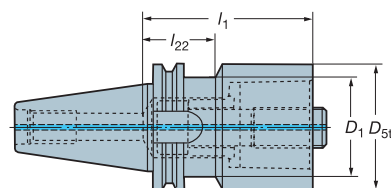
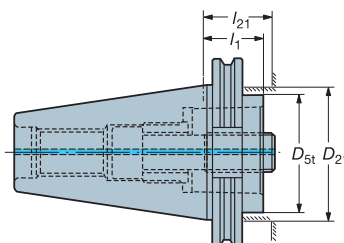
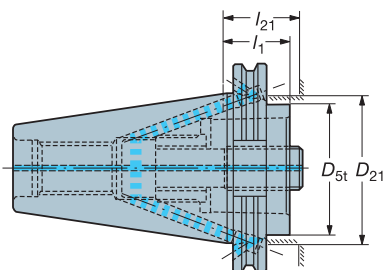
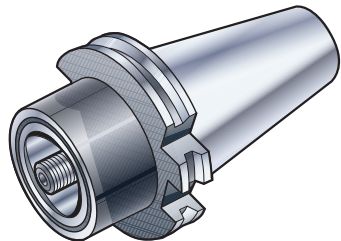
Basic holder

BIG-PLUS, ISO 7388/1 (DIN 69871-ADB)

390.540

Holders with coolant through centre and optional flange coolant

Holders with coolant through centre only



C6-390.540-40 085
For light machining only.

BIG-PLUS SYSTEM - Licence BIG DAISHOWA

l_1 = programming length

Metric thread

Taper	Coupling size	Ordering code	Coolant ¹⁾	Dimensions, mm							Balanced by design
				D_{5t}	D_1	D_{21}	l_1	l_{21}	l_{22}	$\frac{D_1}{D_{5t}}$	
40	C3	C3-390.540-40 030	1	32		50	30	35		0.8	⊙
50		C3-390.540-50 030A	7	32		80	30	35		2.6	
50		C3-390.540-50 060	7	32			60			2.8	
40	C4	C4-390.540-40 040	1	40			40			0.8	⊙
50		C4-390.540-50 030A	7	40		80	30	35		2.6	
50		C4-390.540-50 060	7	40			60			2.9	
40	C5	C5-390.540-40 050	1	50			50			0.8	⊙
50		C5-390.540-50 030A	7	50		80	30	35		2.6	
50		C5-390.540-50 070	7	50			70			3.2	
40	C6	C6-390.540-40 085	1	63	50		85		35	2.3	
50		C6-390.540-50 050A	7	63			50			2.6	
50		C6-390.540-50 100	7	63			100			4.1	
50	C8	C8-390.540-50 070A	7	80			70			3.7	
50		C8-390.540-50 120	7	80			120			5.6	

¹⁾ 1 = coolant through centre, 7 = coolant through centre and through flange

Note! Tighten the screw with a torque wrench. Information on page G131.

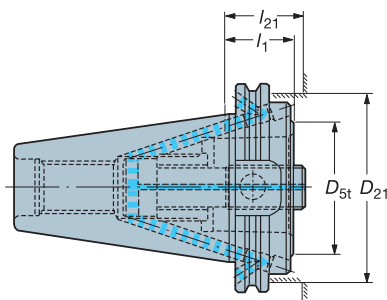
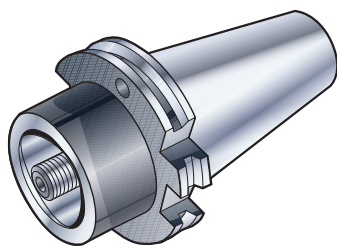


Basic holder

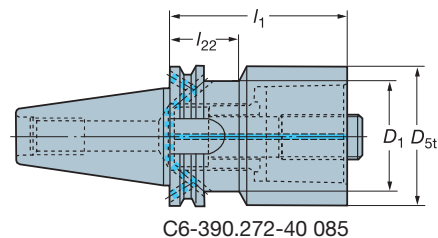
DIN 69871 Form B

Coolant through flange

390.272



For light machining only.



C6-390.272-40 085

l_1 = programming length

Metric thread

Taper	Coupling size	Ordering code	Coolant ¹⁾	Dimensions, mm							Balanced by design
				D_{5t}	D_1	D_{21}	l_1	l_{21}	l_{22}		
40	C3	C3-390.272-40 030	1	32		50	30	35	0.8		
40		C3-390.272-40 060	1	32		50	60	35	1.2		
50		C3-390.272-50 030	1	32		80	30	35	2.6		
50		C3-390.272-50 060	1	32		80	60	35	2.8		
40	C4	C4-390.272-40 030	1	40		50	30	35	0.8		
40		C4-390.272-40 060	1	40		50	60	35	1.2		
50		C4-390.272-50 030	1	40		80	30	35	2.6		
50		C4-390.272-50 060	1	40		80	60	35	2.8		
40	C5	C5-390.272-40 040	1	50		50	40	35	0.9		
40		C5-390.272-40 080	1	50		50	80	35	1.5		
50		C5-390.272-50 030	1	50		80	30	35	2.9		
50		C5-390.272-50 070	1	50		80	70	35	3.4		
40	C6	C6-390.272-40 085	1	63	50		85		35	2.3	
50		C6-390.272-50 030	1	63		80	30	35		2.9	
50		C6-390.272-50 080	1	63		80	80	35		4.0	
50	C8	C8-390.272-50 070	1	80		80	70	35		3.9	
50		C8-390.272-50 120	1	80		80	120	35		5.6	

¹⁾ 1 = coolant through centre

Note! Tighten the screw with a torque wrench. Information on page G131.



G145



G6



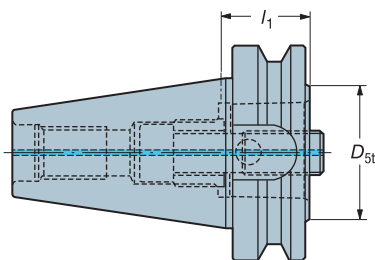
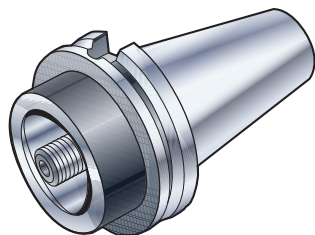
G2



J3

Basic holder

MAS-BT 403
390.55/ .58



l_1 = programming length

Metric thread

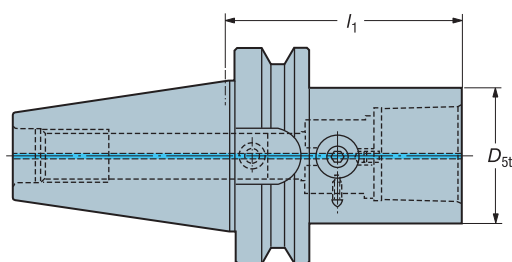
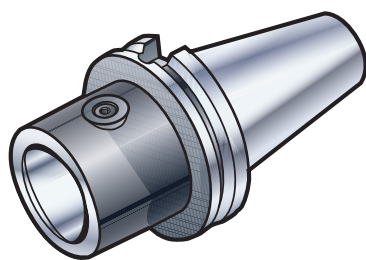
Taper	Coupling size	Ordering code	Coolant ¹⁾	Dimensions, mm			Balanced by design
				D_{5t}	l_1	$\frac{G}{KG}$	
30	C3	C3-390.55-30 030	1	32	30	0.5	⊙
30		C3-390.55-30 060	1	32	60	0.7	⊙
40		C3-390.55-40 060	1	32	60	0.7	⊙
40		C3-390.55-40 030	1	32	30	1.0	⊙
50		C3-390.58-50 040	1	32	40	2.5	
50	C4	C3-390.58-50 070	1	32	70	2.7	
40		C4-390.55-40 030	1	40	30	1.0	⊙
40		C4-390.55-40 060	1	40	60	1.2	⊙
50		C4-390.58-50 040	1	40	40	2.5	
50		C4-390.58-50 070	1	40	70	2.7	
40	C5	C5-390.55-40 030	1	50	30	0.9	⊙
40		C5-390.55-40 070	1	50	70	1.4	⊙
50		C5-390.58-50 040	1	50	40	3.5	
50		C5-390.58-50 080	1	50	80	4.0	
40	C6	C6-390.55-40 075	1	63	75	1.6	
50		C6-390.58-50 040	1	63	40	3.4	
50	C8	C6-390.58-50 090	1	63	90	4.5	
50		C8-390.58-50 070	1	80	70	4.1	
50		C8-390.58-50 120	1	80	120	5.8	

¹⁾ 1 = coolant through centre

MAS-BT 403

Front clamp

390.5504/ .5804



Note! One drawbolt for each adaptor/cutting tool is required.

l_1 = programming length

Metric thread

Taper	Coupling size	Ordering code	Coolant ¹⁾	Dimensions, mm		
				D_{5t}	l_1	$\frac{G}{KG}$
40	C5	C5-390.5504-40 090	1	50	90	1.8
50		C5-390.5804-50 100	1	50	100	4.2
50	C6	C6-390.5804-50 110	1	63	110	4.7
50	C8	C8-390.5804-50 125	1	80	125	4.6

¹⁾ 1 = coolant through centre

Note! Tighten the screw with a torque wrench. Information on page G131.
For drawbolt, see page G128



G145



G6



G2



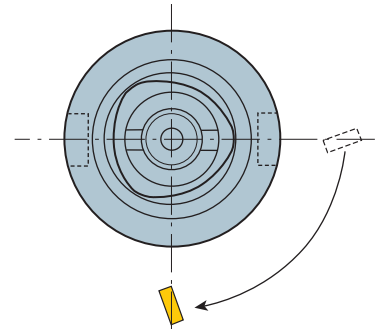
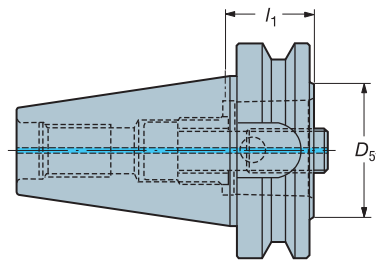
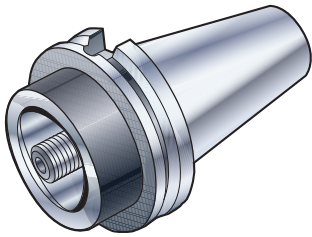
J3

Basic holder

90° rotated polygon for precision tool tip control

Designed for Mazak™ e-machine and Mori Seiki NT™ -Series

MAS-BT 403
390.605



Note: Tolerances for key way width, mm

Taper ISO 40
16.12 +/- 0.02

Taper ISO 50
25.54 + 0.022/-0.03

l₁ = programming length

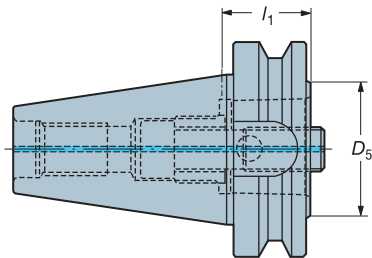
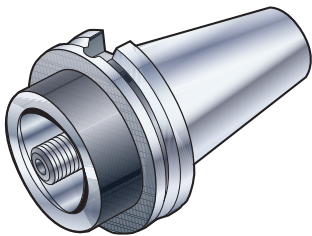
Metric thread

Taper	Coupling size	Ordering code	Coolant ¹⁾	Dimensions, mm		
				D _{5t}	l ₁	KG
40	C5	C5-390.605-40 030	1	50	30	0.8
50	C6	C6-390.605-50 040	1	63	40	3.3
50	C8	C8-390.605-50 070	1	80	70	4.0

¹⁾ 1 = coolant through centre

Note! Tighten the screw with a torque wrench. Information on page G131.

BIG-PLUS
MAS-BT 403
390.555/ .558



BIG-PLUS SYSTEM - Licence BIG DAISHOWA

l₁ = programming length

Metric thread

Taper	Coupling size	Ordering code	Coolant ¹⁾	Dimensions, mm			Balanced by design
				D _{5t}	l ₁	KG	
40	C3	C3-390.555-40 030	1	32	30	1.0	⊙
50		C3-390.558-50 070	1	32	70	3.7	
40		C4-390.555-40 040	1	40	40	1.0	⊙
50	C4	C4-390.558-50 040	1	40	40	3.6	
50		C4-390.558-50 070	1	40	70	3.8	
40		C5-390.555-40 050	1	50	50	1.2	⊙
50	C5	C5-390.558-50 040	1	50	40	3.5	
50		C5-390.558-50 080	1	50	80	3.8	
40		C6-390.555-40 075	1	63	75	1.7	
50	C6	C6-390.558-50 050	1	63	50	3.6	
50		C6-390.558-50 100	1	63	100	4.6	
50		C8-390.558-50 070	1	80	70	4.1	
50	C8	C8-390.558-50 120	1	80	120	5.9	

¹⁾ 1 = coolant through centre

Note! Tighten the screw with a torque wrench. Information on page G131.



G145



G6



G2



J3

D

E

F

G

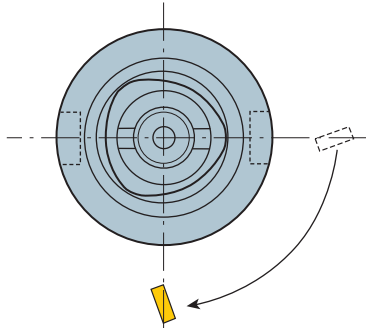
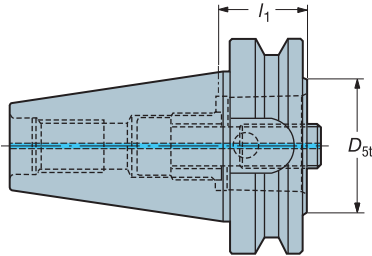
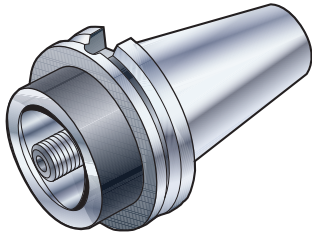
J

Basic holder

BIG-PLUS

90° rotated polygon for precision tool tip control

Designed for Mazak™ e-machine and Mori Seiki NT™ -Series
MAS-BT 403
390.562



Note: Tolerances for key way width, mm

Taper ISO 40	Taper ISO 50
16.12 +/- 0.02	25.54 + 0.022/-0.03

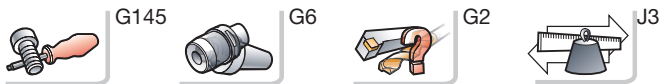
l₁ = programming length

BIG-PLUS SYSTEM - Licence BIG DAISHOWA

Metric thread

				Dimensions, mm			Balanced by design
Taper	Coupling size	Ordering code	Coolant ¹⁾	D _{5t}	l ₁		
40	C5	C5-390.562-40 050	1	50	50	1.4	
50	C6	C6-390.562-50 050	1	63	50	3.6	
50	C8	C8-390.562-50 070	1	80	70	4.1	

¹⁾ 1 = coolant through centre

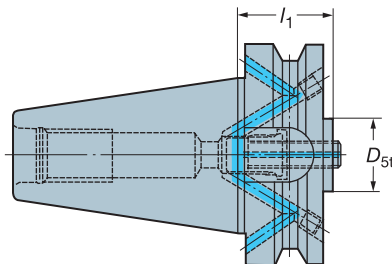
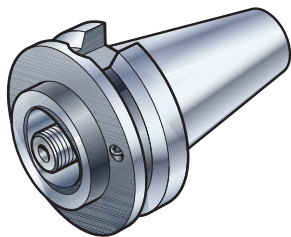


Basic holder

MAS-BT 403 Form B

Coolant through flange

390.369



l_1 = programming length

Metric thread

Taper	Coupling size	Ordering code	Coolant ¹⁾	Dimensions, mm			Balanced by design
				D_{5t}	l_1	$\frac{G}{KG}$	
40	C3	C3-390.369-40 030	1	32	30	1.0	⊙
50		C3-390.369-50 040	1	32	40	2.3	
40	C4	C4-390.369-40 030	1	40	30	1.0	⊙
50		C4-390.369-50 040	1	40	40	2.3	
40	C5	C5-390.369-40 050	1	50	50	1.8	⊙
50		C5-390.369-50 040	1	50	40	3.2	
50	C6	C6-390.369-50 050	1	63	50	3.4	
50	C8	C8-390.369-50 070	1	80	70	4.1	

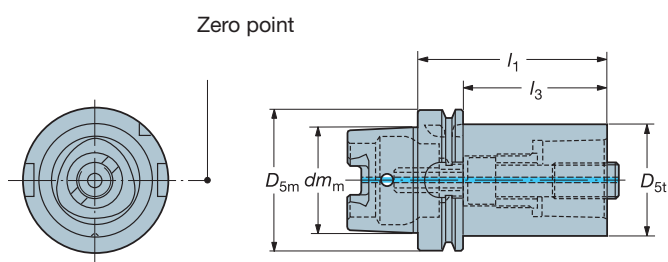
¹⁾ 1 = coolant through centre



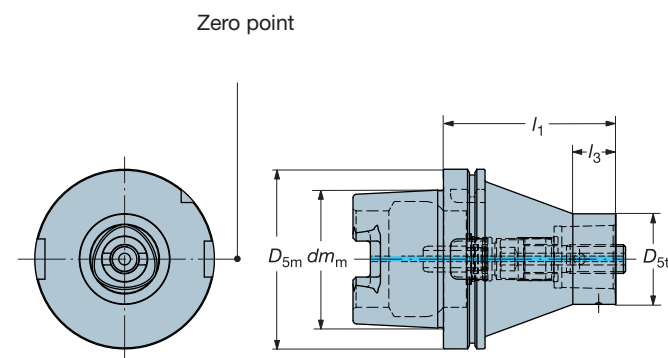
Basic holder

HSK form A/C

390.410



390.410HD



l_1 = programming length

HSK size	Coupling size	Ordering code	Coolant ¹⁾	Dimensions, mm, inch					
				dm_m	D_{5m}	D_{5t}	l_1	l_3	
50	C3	C3-390.410-50 075A	1	38	50	32	75	49	0.6
				1.496	1.968	1.260	2.953	1.929	
	C4	C4-390.410-50 080A	1	38	50	40	80	54	0.8
				1.496	1.968	1.575	3.150	2.126	
63	C3	C3-390.410-63 075C	1	48	63	32	75	49	1.4
				1.890	2.480	1.260	2.953	1.929	
	C4	C4-390.410-63 080C	1	48	63	40	80	54	1.6
				1.890	2.480	1.575	3.150	2.126	
	C5	C5-390.410-63 090C	1	48	63	50	90	64	1.5
				1.890	2.480	1.968	3.543	2.520	
80	C6	C6-390.410-80 110	1	60	80	63	110	84	2.7
				2.362	3.150	2.480	4.331	3.307	
100	C3	C3-390.410-100 080A	1	75	100	32	80	51	3.8
				2.953	3.937	1.260	3.150	2.008	
	C4	C4-390.410-100 090A	1	75	100	40	90	61	4.1
				2.953	3.937	1.575	3.543	2.402	
	C5	C5-390.410-100 100A	1	75	100	50	100	71	3.0
				2.953	3.937	1.968	3.937	2.795	
		C5-390.410-100100HD	1	75	100	50	100	30	3.5
				2.953	3.937	1.968	3.937	1.181	
	C6	C6-390.410-100 110A	1	75	100	63	110	81	3.6
				2.953	3.937	2.480	4.331	3.189	
		C6-390.410-100110HD	1	75	100	63	110	30	4.1
				2.953	3.937	2.480	4.331	1.181	
	C8	C8-390.410-100 120A	1	75	100	80	120	91	4.7
				2.953	3.937	3.150	4.724	3.583	

¹⁾ 1 = coolant through centre

Continued ...

A special coolant tube is delivered together with the HSK basic holders.

Note!

In machines with automatic tool change the coolant tube must be assembled in the basic holder. The outpush function of the clamping mechanism can be jeopardized without an assembled coolant tube/thread ring.



G170



G6



G2

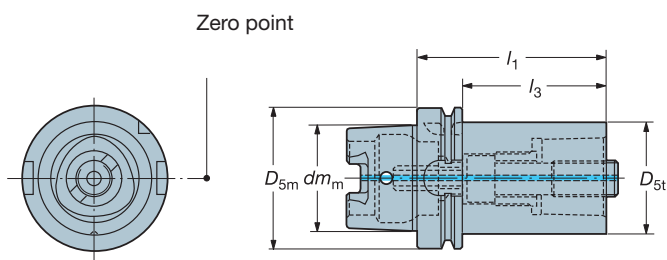


J3

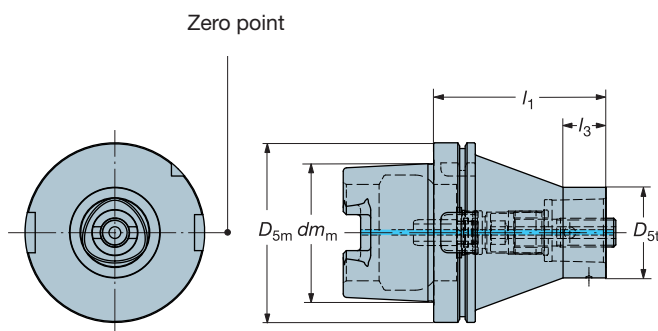
Basic holder

HSK form A/C

390.410



390.410HD



l_1 = programming length

The holders HSK A/C sizes 125 and 160 don't have the holes on the conical surface according to DIN69893

... Continued

HSK size	Coupling size	Ordering code	Coolant ¹⁾	Dimensions, mm, inch					
				dm_m	D_{5m}	D_{5t}	l_1	l_3	$\frac{kg}{kg}$
125	C4	C4-390.410-125 095	1	95	125	40	95	66	4.0
				3.740	4.921	1.575	3.740	2.598	
	C5	C5-390.410-125 105	1	95	125	50	105	76	4.3
				3.740	4.921	1.968	4.134	2.992	
	C6	C6-390.410-125 120	1	95	125	63	120	91	5.2
				3.740	4.921	2.480	4.724	3.583	
	C8	C6-390.410-125120HD	1	95	125	63	120	30	6.5
				3.740	4.921	2.480	4.724	1.181	
	C8	C8-390.410-125 130	1	95	125	80	130	101	6.5
				3.740	4.921	3.150	5.118	3.976	
160	C10	C8-390.410-125130HD	1	95	125	80	130	30	7.6
				3.740	4.921	3.937	6.299	5.158	
	C10	C10-390.410-125 160	1	95	125	100	160	131	9.5
				3.740	4.921	3.150	5.118	1.181	
	C8	C8-390.410-160 135	1	120	160	80	135	104	9.6
				4.724	6.299	3.150	5.315	4.094	
	C10	C10-390.410-160 160	1	120	160	100	160	129	12.4
				4.724	6.299	3.937	6.299	5.079	

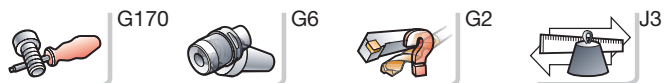
¹⁾ 1 = coolant through centre

A special coolant tube is delivered together with the HSK basic holders.

Note!

In machines with automatic tool change the coolant tube must be assembled in the basic holder. The outpush function of the clamping mechanism can be jeopardized without an assembled coolant tube/thread ring.

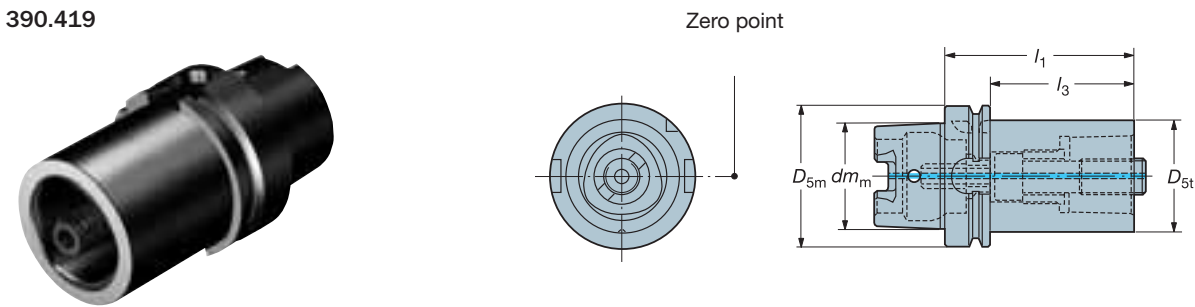
HSK125A - Compatible with the Makino T4 and MAG Cincinnati Ti profiler, for titanium machining.



Basic holder

HSK form A/C/T

390.419



l₁ = programming length

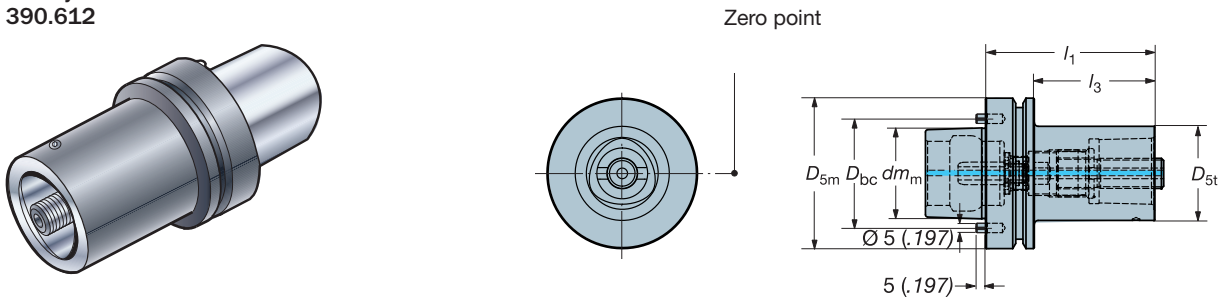
				Dimensions, mm, inch					
HSK size	Coupling size	Ordering code	Coolant ¹⁾	dm _m	D _{5m}	D _{5t}	l ₁	l ₃	
40	C4	C4-390.419-40 075	1	28	40	40	75		0.6
				1.102	1.575	1.575	2.953		
63	C5	C5-390.419-63 090	1	35	63	50	90	64	1.4
				1.378	2.480	1.968	3.543	2.520	
	C6	C6-390.419-63 110	1	44	63	63	110		2.1
				1.732	2.480	2.480	4.331		
100	C6	C6-390.419-100 110	1	44	100	63	110	81	3.6
				1.732	3.937	2.480	4.331	3.189	
	C8	C8-390.419-100 120	1	55	100	80	120	91	4.8
				2.165	3.937	3.150	4.724	3.583	

1) 1 = coolant through centre

A special coolant tube is delivered together with the HSK basic holders.

Note!
In machines with automatic tool change the coolant tube must be assembled in the basic holder. The output function of the clamping mechanism can be jeopardized without an assembled coolant tube/thread ring.

HSK F
Pin style
390.612



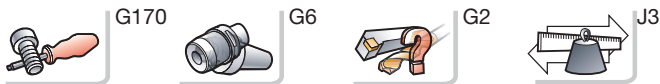
l₁ = programming length

HSK					Dimensions, mm, inch					
Flange	Taper	Coupling size	Ordering code	Coolant ¹⁾	dm_m	D_m	D_{st}	l_1	l_3	
80	(63)	C5	C5-390.612-80 090	1	35	80	50	90	64	1.9
					<i>1.378</i>	<i>3.150</i>	<i>1.968</i>	<i>3.543</i>	<i>2.520</i>	<i>1.9</i>
		C6	C6-390.612-80 105	1	44	80	63	105	79	2.6
					<i>1.732</i>	<i>3.150</i>	<i>2.480</i>	<i>4.134</i>	<i>3.110</i>	<i>2.6</i>

1) 1 = coolant through centre

A special coolant tube is delivered together with the HSK basic holders.

HSK80F - Compatible with the Makino MAG1, MAG3, MAG4, MAG7, A7 - for Aerospace frame aluminium machining.



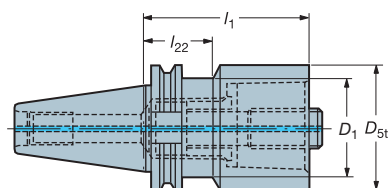
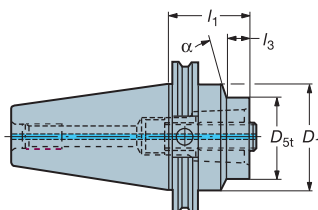
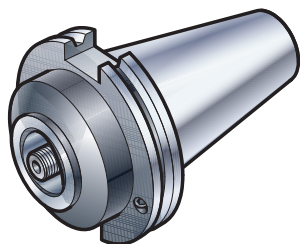
Basic holder

Cat V-Flange

A390.45

Design 1

Design 2


 l_1 = programming length

Inch thread

Taper	Coupling size	Ordering code	Design	Coolant ¹⁾	Dimensions, inch								Torque Nm
					D_1	D_{st}	l_1	l_3	l_{22}	α°	D_{th}		
40	C3	C3-A390.45-40 040	1	1	1.760	1.260	1.575	.197		20°	.625	4.0	45
		C3-A390.45-40 070	1	1	1.760	1.260	2.756	1.378		30°	.625	5.7	45
50		C3-A390.45-50 040	1	1	2.760	1.260	1.575	.197		10°	1.000	10.1	45
		C3-A390.45-50 070	1	1	2.760	1.260	2.756	1.378		15°	1.000	15.0	45
40	C4	C4-A390.45-40 040	1	1	1.760	1.575	1.575	.197		30°	.625	4.0	45
		C4-A390.45-40 070	1	1	1.760	1.575	2.756	1.378		30°	.625	5.7	45
50		C4-A390.45-50 040	1	1	2.760	1.575	1.575	.197		10°	1.000	14.1	45
		C4-A390.45-50 070	1	1	2.760	1.575	2.756	1.378		10°	1.000	15.0	45
40	C5	C5-A390.45-40 050	2	1	1.760	1.968	1.969		1.378		.625	4.9	45
		C5-A390.45-40 090	2	1	1.760	1.968	3.543		1.378		.625	6.4	45
45		C5-A390.45-45 040	1	1	2.260	1.968	1.575	.118		30°	.750	8.4	45
		C5-A390.45-50 040	2	1	2.760	1.968	1.575	.091		15°	1.000	13.2	45
50		C5-A390.45-50 080	1	1	2.760	1.968	3.150	1.693		15°	1.000	14.1	45
		C6-A390.45-40 090	2	1	1.760	2.480	3.543		1.378		.625	9.9	65
45	C6	C6-A390.45-45 050	2	1	2.260	2.480	1.969		1.378	20°	.750	10.8	65
		C6-A390.45-50 040	1	1	2.760	2.480	1.575	.118		30°	1.000	14.6	65
50		C6-A390.45-50 090	1	1	2.760	2.480	3.543	2.087		30°	1.000	19.8	65
		C8-A390.45-50 100	2	1	2.760	3.150	3.937	2.559	1.378	20°	1.000	22.9	65
60	C8	C8-A390.45-60 050	1	1	4.260	3.150	1.969	1.220		30°	1.250	47.2	65
		C10-A390.45-60 050	1	1	4.250	3.937	1.968	.413			1.250	19.8	90

¹⁾ 1 = coolant through centre

Note! Tighten the screw with a torque wrench. Information on page G131.



G145



G6



G2

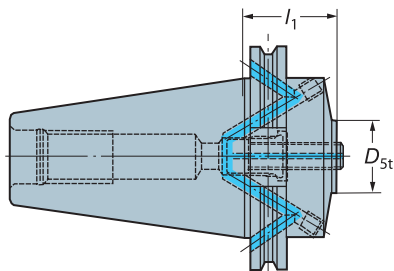
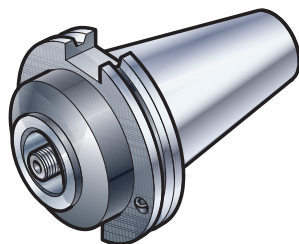


J3

Basic holder

CAT V-Flange, similar to DIN 69871, form B

Coolant through flange
A390.455



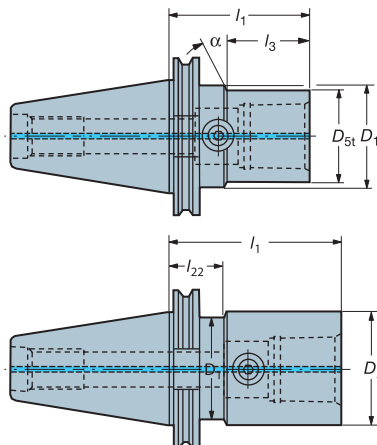
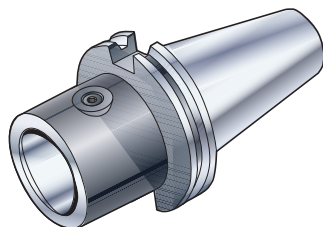
l_1 = programming length

Inch thread

Taper	Coupling size	Ordering code	Coolant ¹⁾	Dimensions, inch			Balanced by design
				D_{st}	l_1		
40	C3	C3-A390.455-40 040	6	1.260	1.575	4.4	⊙
50		C3-A390.455-50 040	6	1.260	1.575	14.1	
40	C4	C4-A390.455-40 040	6	1.575	1.575	4.4	⊙
50		C4-A390.455-50 040	6	1.575	1.575	13.2	
40	C5	C5-A390.455-40 050	6	1.968	1.969	4.9	⊙
50		C5-A390.455-50 040	6	1.968	1.575	13.2	
50	C6	C6-A390.455-50 040	6	2.480	1.575	14.1	
50	C8	C8-A390.455-50 100	6	3.150	3.937	22.9	

¹⁾ 6 = coolant through flange

Cat V-Flange
Front clamp
A390.4504



Note! One drawbolt for each adaptor/cutting tool is required.

l_1 = programming length

Inch thread

Taper	Coupling size	Ordering code	Coolant ¹⁾	Dimensions, inch						
				D_1	D_{st}	l_1	l_3	l_{22}	α°	
40	C5	C5-A390.4504-40 100	1	1.760	1.968	3.937		1.378		4.0
50		C5-A390.4504-50 080	1	2.760	1.968	3.150	1.634		20°	8.6
	C6	C6-A390.4504-50 090	1	2.760	2.480	3.543	2.087		30°	9.0
	C8	C8-A390.4504-50 125	1	2.760	3.150	4.921		1.378		12.3

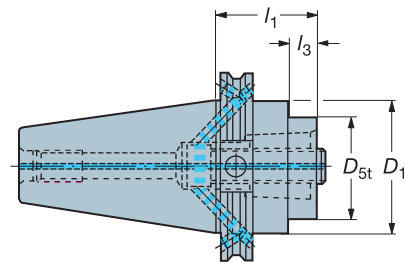
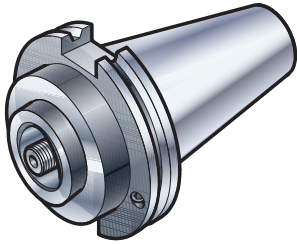
¹⁾ 1 = coolant through centre

Note! Tighten the screw with a torque wrench. Information on page G131.
For drawbolt, see page G128



Basic holder

BIG-PLUS
Cat V-Flange
A390.545



BIG-PLUS SYSTEM - Licence BIG DAISHOWA

l_1 = programming length

Inch thread

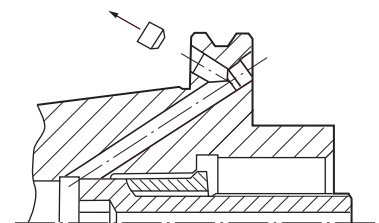
Taper	Coupling size	Ordering code	Coolant ¹⁾	Dimensions, inch				
				D_1	D_{5t}	l_1	l_3	
40	C3	C3-A390.545-40 040A	7	1.750	1.260	1.575	.106	2.0
50	C3	C3-A390.545-50 040A	7	2.750	1.260	1.575	.063	6.8
50	C3	C3-A390.545-50 070	7	2.750	1.260	2.756	1.181	7.1
40	C4	C4-A390.545-40 040A	7	1.750	1.575	1.575	.142	2.2
50	C4	C4-A390.545-50 040A	7	2.750	1.575	1.575	.091	6.8
50	C4	C4-A390.545-50 070	7	2.750	1.575	2.756	1.220	7.3
40	C5	C5-A390.545-40 050A	7	1.750	1.968	1.968		2.2
50	C5	C5-A390.545-50 040A	7	2.750	1.968	1.575	.091	6.6
50	C5	C5-A390.545-50 080	7	2.750	1.968	3.150	1.665	7.7
50	C6	C6-A390.545-50 040A	7	2.750	2.480	1.575	.118	6.4
50	C6	C6-A390.545-50 090	7	2.750	2.480	3.543	2.087	8.7
50	C8	C8-A390.545-50 100A	7	2.750	3.150	3.937		10.4
50	C8	C8-A390.545-50 150	7	2.750	3.150	5.906		14.4

¹⁾ 7 = coolant through centre and through flange

Ordering code

5514 011-02 (CAT 40)

5514 011-01 (CAT 50)



G145



G6



G2



J3

Basic holder

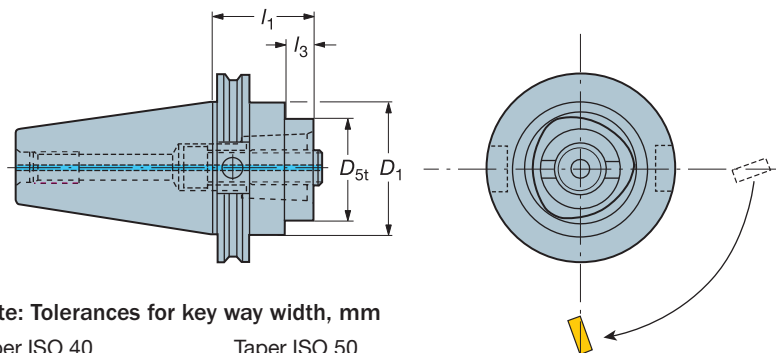
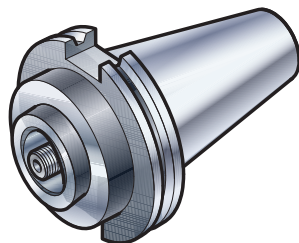
BIG-PLUS

90° rotated polygon for precision tool tip control

Designed for Mazak™ e-machine and Mori Seiki NT™ -Series

Cat V-Flange

A390.546



Note: Tolerances for key way width, mm

Taper ISO 40
16.12 +/- 0.02

Taper ISO 50
25.54 + 0.022/-0.03

BIG-PLUS SYSTEM - Licence BIG DAISHOWA

l_1 = programming length

Inch thread

Taper	Coupling size	Ordering code	Coolant ¹⁾	Dimensions, inch				
				D_1	D_{5t}	l_1	l_3	
40	C4	C4-A390.546-40 040	1	1.750	1.575	1.575	.142	2.2
40	C5	C5-A390.546-40 050	1	1.750	1.968	1.968	.591	2.3
50	C6	C6-A390.546-50 050	1	2.750	2.480	1.968	.512	6.8
50	C8	C8-A390.546-50 070	1	2.750	3.150	2.756	1.378	7.9

¹⁾ 1 = coolant through centre

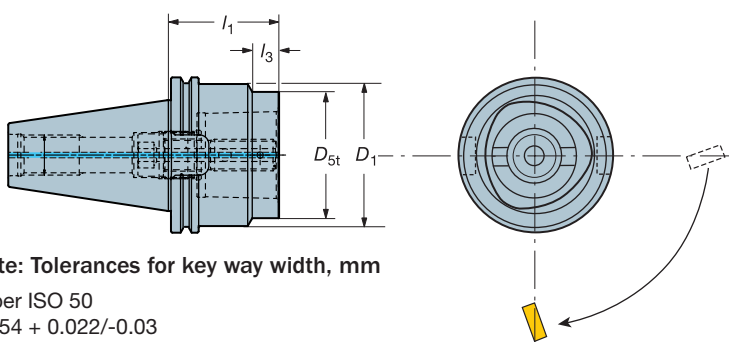
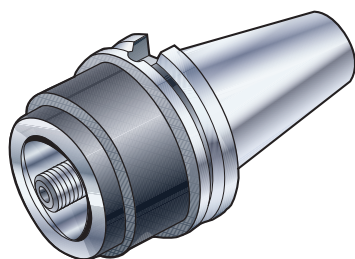
BIG-PLUS

90° rotated polygon

Designed for Mazak™ e-machine and Mori Seiki NT™ -Series

Cat V-Flange

A390.547



Note: Tolerances for key way width, mm

Taper ISO 50
25.54 + 0.022/-0.03

BIG-PLUS SYSTEM - Licence BIG DAISHOWA

l_1 = programming length

Inch thread

Taper	Coupling size	Ordering code	Coolant ¹⁾	Dimensions, inch				
				D_1	D_{5t}	l_1	l_3	
50	C8	C8-A390.547-50 070	1	3.543	3.150	2.756	.669	9.0

¹⁾ 1 = coolant through centre



G145



G6



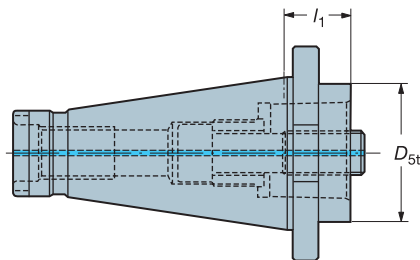
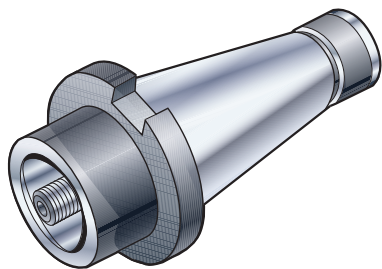
G2



J3

Basic holder

DIN 2080

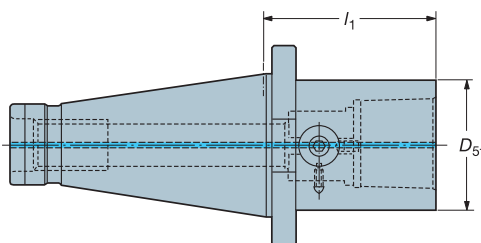
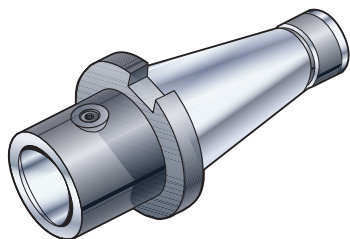
For manual tool change
390.00

 l_1 = programming length

Metric thread

Taper	Coupling size	Ordering code	Coolant ¹⁾	Dimensions, mm		
				D_{5t}	l_1	
40	C3	C3-390.00-40 030	1	32	30	0.8
50		C3-390.00-50 030	1	32	30	2.5
50		C3-390.00-50 060	1	32	60	2.5
40	C4	C4-390.00-40 030	1	40	30	0.8
40		C4-390.00-40 060	1	40	60	0.8
50		C4-390.00-50 030	1	40	30	2.5
50		C4-390.00-50 060	1	40	60	2.5
40	C5	C5-390.00-40 030	1	50	30	0.9
40		C5-390.00-40 070	1	50	70	1.4
50		C5-390.00-50 030	1	50	30	2.6
50		C5-390.00-50 070	1	50	70	3.1
40	C6	C6-390.00-40 075	1	63	75	1.9
50		C6-390.00-50 030	1	63	30	2.6
50		C6-390.00-50 080	1	63	80	3.7
50	C8	C8-390.00-50 070	1	80	70	3.8
50		C8-390.00-50 120	1	80	120	5.6

¹⁾ 1 = coolant through centre

DIN 2080

For manual tool change
Front clamp
390.0004


Note! One drawbolt for each adaptor/cutting tool is required.

 l_1 = programming length

Metric thread

Taper	Coupling size	Ordering code	Coolant ¹⁾	Dimensions, mm		
				D_{5t}	l_1	
40	C5	C5-390.0004-40 075	1	50	75	1.5
50		C5-390.0004-50 080	1	50	80	3.4
50	C6	C6-390.0004-50 085	1	63	85	3.8
50	C8	C8-390.0004-50 100	1	80	100	5.0

¹⁾ 1 = coolant through centre

Note! Tighten the screw with a torque wrench. Information on page G131.

For drawbolt, see page G128



G145



G6



G2



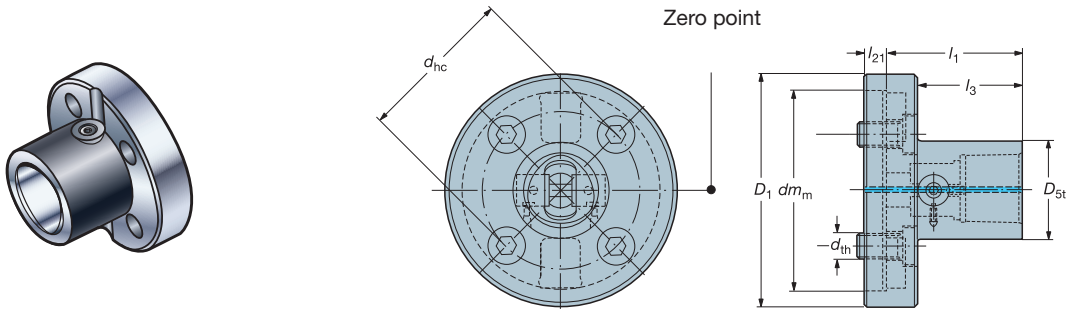
J3

D
E
F
G
J

Basic holder

DIN 2079

For manual tool change
Front clamp
390.34704



Note! One drawbolt for each adaptor/cutting tool is required. l_1 = programming length

Metric thread

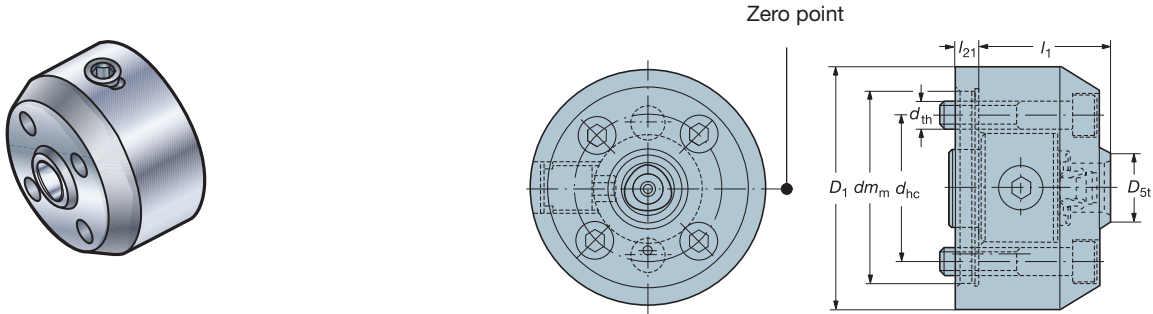
				Dimensions, mm								
Taper	Coupling size	Ordering code	Coolant ¹⁾	dm_m	d_{hc}	D_1	D_{5t}	l_1	l_3	l_{21}	d_{th}	
40	C5	C5-390.34704-40 075	1	35	66.7	110	50	75	61	10	M12	2.2
50	C6	C6-390.34704-50 090	1	44	101.6	150	63	90	69	14	M16	4.2
50	C8	C8-390.34704-50 100	1	55	101.6	150	80	100	79	14	M16	4.4

¹⁾ 1 = coolant through centre

DIN 2079

For manual tool change, flange mounting

Camshaft clamping
390.34705



l_1 = programming length

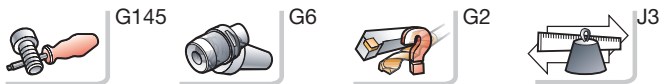
Metric thread

				Dimensions, mm							
Taper	Coupling size	Ordering code	Coolant ¹⁾	d_{hc}	dm_m	d_{th}	D_1	D_{5t}	l_1	l_{21}	
40	C3	C3-390.34705-40 060	0	66.7	22	M12	110	32	60	10	4.4
40	C4	C4-390.34705-40 070	0	66.7	28	M12	110	40	70	10	5.2

¹⁾ 0 = no coolant

Note! These flange mounted holders fit many standard spindle configurations. The bolt hole configurations and pilot diameter are standard 40 and 50 taper solutions for CAT V-Flange and NMTB tapers.

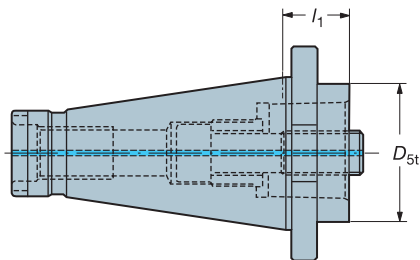
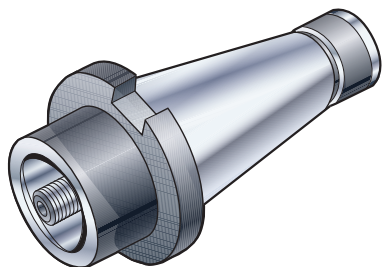
Note! Tighten the screw with a torque wrench. Information on page G131.
For drawbolt, see page G128



Basic holder

NMTB

A390.00



l_1 = programming length

Inch thread

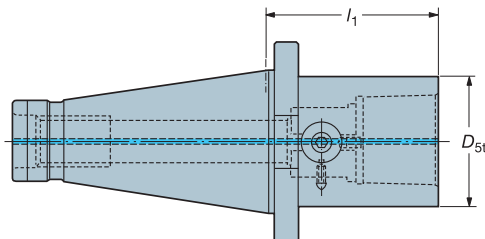
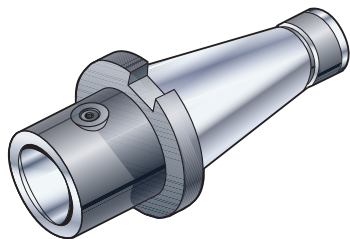
Taper	Coupling size	Ordering code	Coolant ¹⁾	Dimensions, inch		
				D_{5t}	l_1	
40	C5	C5-A390.00-40 030	1	1.968	1.181	4.2
50	C5	C5-A390.00-50 070	1	1.968	2.756	15.0
50	C5	C5-A390.00-50 030	1	1.968	1.181	12.6
50	C6	C6-A390.00-50 030	1	2.480	1.181	12.6
50	C8	C8-A390.00-50 070	1	3.150	2.756	18.5

¹⁾ 1 = coolant through centre

NMTB

Front clamp

A390.0004



Note! One drawbolt for each adaptor/cutting tool is required.

l_1 = programming length

Inch thread

Taper	Coupling size	Ordering code	Coolant ¹⁾	Dimensions, inch		
				D_{5t}	l_1	
50	C5	C5-A390.0004-50 080	1	1.968	3.150	16.5
50	C6	C6-A390.0004-50 085	1	2.480	3.346	18.5
50	C8	C8-A390.0004-50 100	1	3.150	3.937	24.3

¹⁾ 1 = coolant through centre

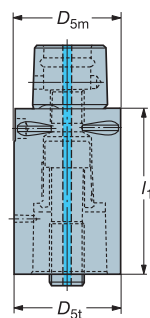
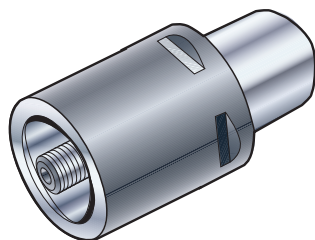
Note! Tighten the screw with a torque wrench. Information on page G131.

For drawbolt, see page G128



Extension adaptor

391.01

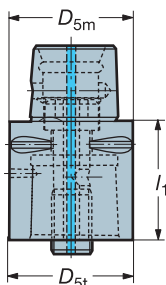
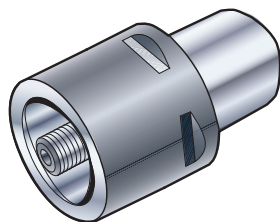
 l_1 = programming length

Coupling size		Ordering code	Coolant ¹⁾	Dimensions, millimeter, inch (mm, in.)						
Machine side	Tool side			D_{5m} mm	D_{5m} in.	D_{5t} mm	D_{5t} in.	l_1 mm	l_1 in.	
C3	C3	C3-391.01-32 060A	1	32	1.260	32	1.260	60	2.362	0.4
		C3-391.01-32 080A	1	32	1.260	32	1.260	80	3.150	0.5
C4	C4	C4-391.01-40 060A	1	40	1.575	40	1.575	60	2.362	0.5
		C4-391.01-40 080A	1	40	1.575	40	1.575	80	3.150	0.7
C5	C5	C5-391.01-50 080A	1	50	1.968	50	1.968	80	3.150	1.1
		C5-391.01-50 100A	1	50	1.968	50	1.968	100	3.937	1.4
C6	C6	C6-391.01-63 100A	1	63	2.480	63	2.480	100	3.937	2.2
		C6-391.01-63 140A	1	63	2.480	63	2.480	140	5.512	3.1
C8	C8	C8-391.01-80 100A	1	80	3.150	80	3.150	100	3.937	3.6
		C8-391.01-80 125A	1	80	3.150	80	3.150	125	4.921	4.6
C10	C10	C10-391.01-100 140	1	100	3.937	100	3.937	140	5.512	8.5

¹⁾ 1 = coolant through centre

Short version, for segment clamping only

391.01

**Note!**

Not possible to use together with basic holders using centre bolt clamping.

 l_1 = programming length

Coupling size		Ordering code	Coolant ¹⁾	Dimensions, millimeter, inch (mm, in.)						
Machine side	Tool side			D_{5m} mm	D_{5m} in.	D_{5t} mm	D_{5t} in.	l_1 mm	l_1 in.	
C3	C3	C3-391.01-32 035	1	32	1.260	32	1.260	35	1.378	0.2
C4	C4	C4-391.01-40 040	1	40	1.575	40	1.575	40	1.575	0.4
C5	C5	C5-391.01-50 050	1	50	1.968	50	1.968	50	1.968	0.9
C6	C6	C6-391.01-63 060	1	63	2.480	63	2.480	60	2.362	1.3
C8	C8	C8-391.01-80 065	1	80	3.150	80	3.150	65	2.559	2.3

¹⁾ 1 = coolant through centre

G148



G6



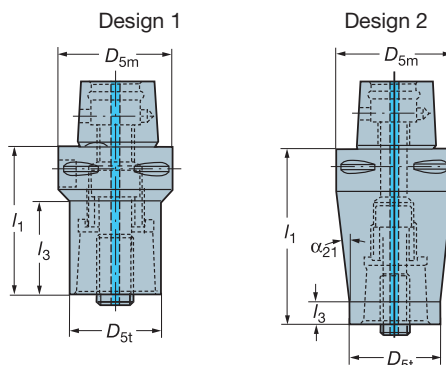
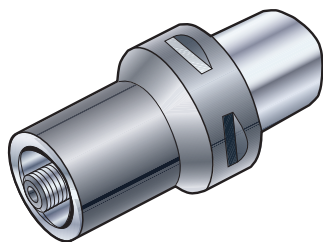
G2



J3

Reduction adaptor

391.02

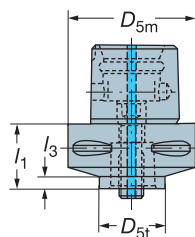
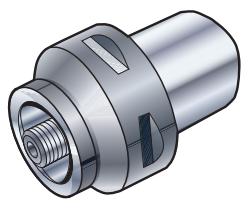

 l_1 = programming length

Coupling size					Dimensions, millimeter, inch (mm, in.)									
Machine side	Tool side	Ordering code	Coolant ¹⁾	Design	D _{5m} mm	D _{5m} in.	D _{5t} mm	D _{5t} in.	h mm	h in.	l ₃ mm	l ₃ in.	α ₂₁	
C4	C3	C4-391.02-32 055A	1	1	40	1.575	32	1.260	55	2.165	31	1.220		0.5
		C4-391.02-32 070A	1	2	40	1.575	32	1.260	70	2.756	12	.472	6.0°	0.6
C5	C3	C5-391.02-32 060A	1	1	50	1.968	32	1.260	60	2.362	34.8	1.370		0.6
	C4	C5-391.02-40 065A	1	1	50	1.968	40	1.575	65	2.559	40	1.575		0.8
		C5-391.02-40 085A	1	2	50	1.968	40	1.575	85	3.346	12	.472	5.4°	1.1
C6	C3	C6-391.02-32 070A	1	1	63	2.480	32	1.260	70	2.756	39	1.535		1.1
	C4	C6-391.02-40 080A	1	1	63	2.480	40	1.575	80	3.150	51.4	2.024		1.2
	C5	C6-391.02-50 080A	1	1	63	2.480	50	1.968	80	3.150	51.5	2.028		1.5
		C6-391.02-50 110A	1	2	63	2.480	50	1.968	110	4.331	12	.472	4.9°	2.2
C8	C3	C8-391.02-32 060A	1	1	80	3.150	32	1.260	60	2.362	29.3	1.154		1.7
	C4	C8-391.02-40 070A	1	1	80	3.150	40	1.575	70	2.756	36.5	1.437		1.9
	C5	C8-391.02-50 080A	1	1	80	3.150	50	1.968	80	3.150	49.3	1.941		2.2
	C6	C8-391.02-63 080A	1	1	80	3.150	63	2.480	80	3.150	53.1	2.091		2.5
		C8-391.02-63 120A	1	2	80	3.150	63	2.480	120	4.724	12	.472		4.0
C10	C3	C10-391.02-32 085	1	1	100	3.937	32	1.260	85	3.346	29.4	1.158		4.0
	C4	C10-391.02-40 090	1	1	100	3.937	40	1.575	90	3.543	36.7	1.445		4.1
	C5	C10-391.02-50 095	1	1	100	3.937	50	1.968	95	3.740	44.6	1.756		4.3
	C6	C10-391.02-63 095	1	1	100	3.937	63	2.480	95	3.740	48.3	1.902		4.5
	C8	C10-391.02-80 100	1	1	100	3.937	80	3.150	100	3.937	58.2	2.291		5.1

¹⁾ 1 = coolant through centre

Short version, for segment clamping only

391.02


Note! Not possible to use together with basic holders using centre bolt clamping.

 l_1 = programming length

Coupling size		Dimensions, millimeter, inch (mm, in.)											
Machine side	Tool side	Ordering code	Coolant ¹⁾	D _{5m} mm	D _{5m} in.	D _{5t} mm	D _{5t} in.	l ₁ mm	l ₁ in.	l ₃ mm	l ₃ in.		
C5	C3	C5-391.02-32 033	1	50	1.968	32	1.260	33	1.299	10	.394	0.5	
	C4	C5-391.02-40 040	1	50	1.968	40	1.575	40	1.575	18	.709	0.6	
C6	C3	C6-391.02-32 032	1	63	2.480	32	1.260	32	1.260	6	.236	0.8	
	C4	C6-391.02-40 040	1	63	2.480	40	1.575	40	1.575	11	.433	0.9	
	C5	C6-391.02-50 050	1	63	2.480	50	1.968	50	1.968	26.5	1.043	1.0	
	C5	C8-391.02-50 045	1	80	3.150	50	1.968	45	1.772	10	.394	1.8	
C8	C6	C8-391.02-63 055	1	80	3.150	63	2.480	55	2.165	20	.787	2.0	
	C6	C10-391.02-63 055	1	100	3.937	63	2.480	55	2.165	14	.551	3.2	
C10	C8	C10-391.02-80 065	1	100	3.937	80	3.150	65	2.559	25.4	1.000	3.5	

¹⁾ 1 = coolant through centre


G148



G6



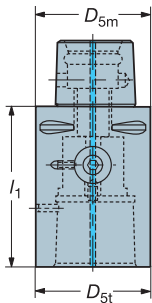
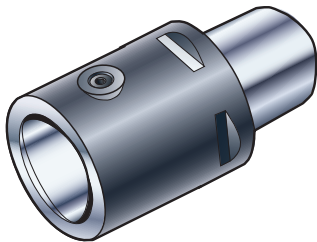
G2



J3

D
E
F
G
J

Front clamp extension adaptor 391.04



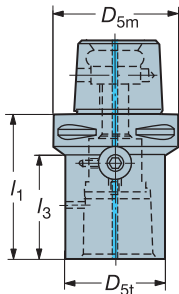
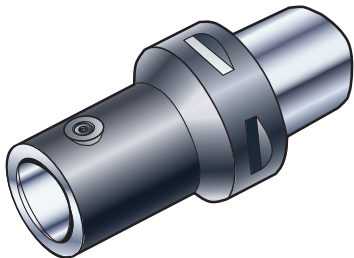
Note! One drawbolt for each adaptor/cutting tool is required.

*l*₁ = programming length

Coupling size				Dimensions, millimeter, inch (mm, in.)						
Basic holder	Adaptor	Ordering code	Coolant ¹⁾	D _{5m} mm	D _{5m} in.	D _{5t} mm	D _{5t} in.	h mm	h in.	
C5	C5	C5-391.04-50 075	1	50	1.968	50	1.968	75	2.953	1.4
C6	C6	C6-391.04-63 085	1	63	2.480	63	2.480	85	3.346	2.0
C8	C8	C8-391.04-80 100	1	80	3.150	80	3.150	100	3.937	3.8

¹⁾ 1 = coolant through centre

Front clamp reduction adaptor 391.0204



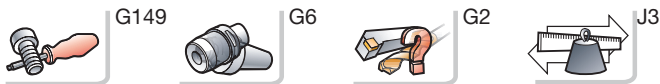
Note! One drawbolt for each adaptor/cutting tool is required.

*l*₁ = programming length

Coupling size		Ordering code	Coolant ¹⁾	Dimensions, millimeter, inch (mm, in.)								
Basic holder	Adaptor			<i>D</i> _{5m} mm	<i>D</i> _{5m} in.	<i>D</i> _{5t} mm	<i>D</i> _{5t} in.	<i>l</i> ₁ mm	<i>l</i> ₁ in.	<i>l</i> ₃ mm	<i>l</i> ₃ in.	
C6	C5	C6-391.0204-50 080	1	63	2.480	50	1.968	80	3.150	54	2.126	1.4
C8	C5	C8-391.0204-50 080	1	80	3.150	50	1.968	80	3.150	49	1.929	2.3
	C6	C8-391.0204-63 090	1	80	3.150	63	2.480	90	3.543	63	2.480	2.3

¹⁾ 1 = coolant through centre

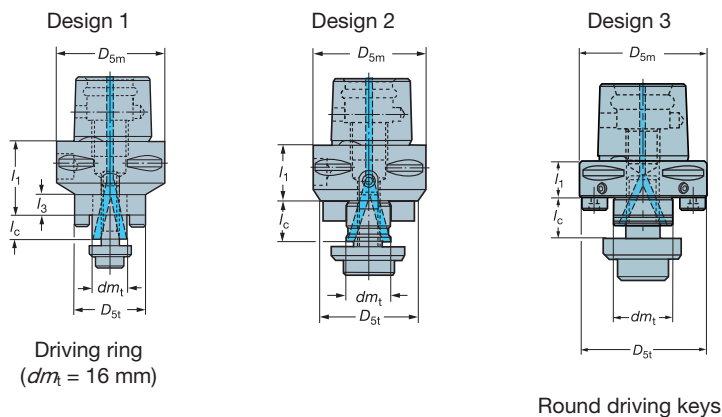
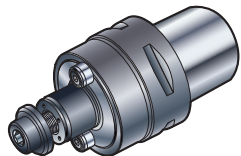
Note! Tighten the screw with a torque wrench. Information on page G131.
For drawbolt, see page G128



Adaptor for face mills and square shoulder face mills

With coolant through arbor

391.05C

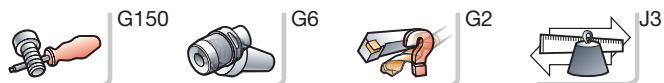


l_1 = programming length

Metric pilot

Coupling size	Ordering code	Coolant ¹⁾		Design	Dimensions, mm							Balanced by design
		Entry	Exit		dm_1	D_{5m}	D_{5t}	l_c	l_1	l_3	$\frac{m}{kg}$	
C3	C3-391.05C-16 030	1	4	1	16	32	32	11	30	10	0.3	⊙
C4	C4-391.05C-16 032	1	4	1	16	40	32	11	32	10	0.3	⊙
	C4-391.05C-22 025	1	4	2	22	40	40	16	25		0.4	⊙
C5	C5-391.05C-16 035	1	4	1	16	50	32	11	35	10	0.6	⊙
	C5-391.05C-22 025	1	4	3	22	50	50	16	25		0.6	⊙
	C5-391.05C-27 025	1	4	3	27	50	56	18	25		0.7	⊙
	C5-391.05C-32 040	1	4	2	32	50	63	20	40		1.2	⊙
C6	C6-391.05C-16 040	1	4	1	16	63	32	11	40	10	0.9	
	C6-391.05C-22 025	1	4	3	22	63	55	16	25		0.9	
	C6-391.05C-27 025	1	4	3	27	63	63	18	25		1.0	
	C6-391.05C-32 025	1	4	3	32	63	65	20	25		1.1	
	C6-391.05C-40 040	1	4	2	40	63	70	23	40		1.6	
C8	C8-391.05-40 030B	1	4	3	40	80	80	23	30		2.1	
	C8-391.05C-16 050	1	4	1	16	80	32	11	50	10	1.6	
	C8-391.05C-22 030	1	4	3	22	80	55	16	30		1.8	
	C8-391.05C-27 030	1	4	3	27	80	65	18	30		1.9	
	C8-391.05C-32 030	1	4	3	32	80	79	20	30		2.0	
	C8-391.05C-40 030	1	4	3	40	80	80	23	30		2.1	
C10	C10-391.05C-22 075	1	4	2	22	100	48	16	75	27	4.1	
	C10-391.05C-27 075	1	4	2	27	100	60	18	75	29	4.4	
	C10-391.05C-32 075	1	4	2	32	100	78	20	75	33	4.9	
	C10-391.05C-40 040	1	4	3	40	100	100	23	40		4.0	

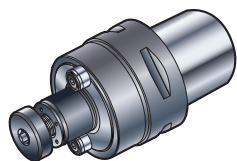
¹⁾ 0 = no coolant, 1 = coolant through centre, 4 = coolant through arbor



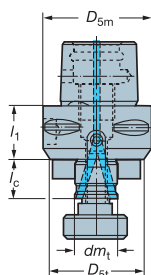
Adaptor for face mills and square shoulder face mills

With coolant through arbor

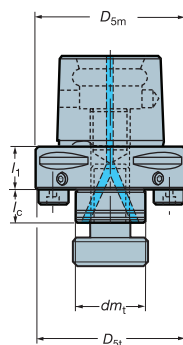
A391.05C



Design 2



Design 3



Round driving keys

l_1 = programming length

Inch pilot

Coupling size	Ordering code	Coolant ¹⁾		Design	Dimensions, inch						Balanced by design
		Entry	Exit		dm_1	D_{sm}	D_{st}	l_c	l_1	$\frac{D}{L}$	
C3	C3-A391.05C-19 030	1	4	2	.750	1.260	1.575	.709	1.181	0.8	⊙
C4	C4-A391.05C-19 025	1	4	3	.750	1.575	1.575	.709	.984	0.8	⊙
	C4-A391.05C-25 035	1	4	2	1.000	1.575	1.968	.709	1.378	1.2	⊙
C5	C5-A391.05C-19 025	1	4	3	.750	1.968	1.968	.709	.984	1.4	⊙
	C5-A391.05C-25 025	1	4	3	1.000	1.968	2.126	.709	.984	1.4	⊙
	C5-A391.05C-31 040	1	4	2	1.250	1.968	2.480	.709	1.575	2.6	⊙
	C5-A391.05C-38 045	1	4	2	1.500	1.968	3.150	.906	1.772	4.0	⊙
C6	C6-A391.05C-19 030	1	4	3	.750	2.480	2.047	.709	1.181	2.2	
	C6-A391.05C-25 030	1	4	3	1.000	2.480	2.480	.709	1.181	2.4	
	C6-A391.05C-31 030	1	4	3	1.250	2.480	2.559	.709	1.181	2.6	
	C6-A391.05C-38 045	1	4	2	1.500	2.480	3.150	.906	1.772	4.4	
C8	C8-A391.05C-19 030	1	4	3	.750	3.150	2.047	.709	1.181	4.0	
	C8-A391.05C-25 030	1	4	3	1.000	3.150	2.480	.709	1.181	4.2	
	C8-A391.05C-31 030	1	4	3	1.250	3.150	2.835	.709	1.181	4.2	
	C8-A391.05C-38 030	1	4	3	1.500	3.150	3.150	.906	1.181	4.6	
C10	C10-A391.05C-19 075	1	4	2	.750	3.937	1.693	.709	2.953	8.9	
	C10-A391.05C-25 075	1	4	2	1.000	3.937	1.968	.709	2.953	9.1	
	C10-A391.05C-38 040	1	4	3	1.500	3.937	3.937	.906	1.575	8.6	

¹⁾ 0 = no coolant, 1 = coolant through centre, 4 = coolant through arbor



G150



G6



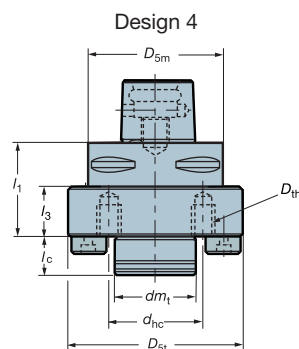
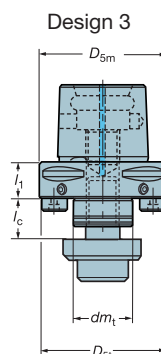
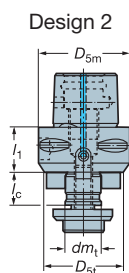
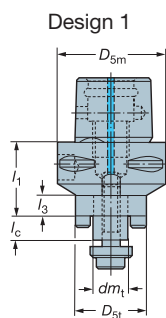
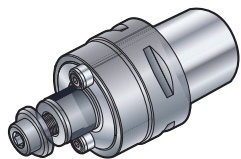
G2



J3

Adaptor for face mills and square shoulder face mills

391.05



Driving ring
($dm_1 = 16$)

Round driving keys

l_1 = programming length

Metric pilot

Coupling size	Ordering code	Design	Coolant ¹⁾	Dimensions, mm										Balanced by design
				d_{m1}	D_{5m}	D_{5t}	l_c	l_1	D_{1h}	d_{hc}	l_3			
C3	C3-391.05-16 030	1	1	16	32	32	11	30				10	0.3	⊙
C4	C4-391.05-16 032	1	1	16	40	32	11	32				10	0.3	⊙
	C4-391.05-16 055	1	1	16	40	32	11	55				33	0.4	⊙
	C4-391.05-22 025	2	1	22	40	40	16	25					0.4	⊙
	C4-391.05-22 055	2	1	22	40	40	16	55					0.7	⊙
C5	C5-391.05-16 035	1	1	16	50	32	11	35				10	0.6	⊙
	C5-391.05-16 070	1	1	16	50	32	11	70				44.8	0.7	⊙
	C5-391.05-22 025A	3	1	22	50	50	16	25					0.6	⊙
	C5-391.05-22 070	2	1	22	50	40	16	70				47	1.0	⊙
	C5-391.05-27 025A	3	1	27	50	56	18	25					0.7	
	C5-391.05-32 040	2	1	32	50	63	20	40					1.2	⊙
C6	C6-391.05-16 040	1	1	16	63	32	11	40				10	0.9	
	C6-391.05-22 025A	3	1	22	63	55	16	25					0.9	
	C6-391.05-27 025A	3	1	27	63	63	18	25					1.0	
	C6-391.05-32 025A	3	1	32	63	65	20	25					1.1	
	C6-391.05-40040A	2	1	40	63	70	23	40					1.6	
C8	C8-391.05-16 050	1	1	16	80	32	11	50				10	1.6	
	C8-391.05-22 030A	3	1	22	80	55	16	30					1.8	
	C8-391.05-27 030A	3	1	27	80	65	18	30					1.9	
	C8-391.05-32 030A	3	1	32	80	72	20	30					2.0	
	C8-391.05-40 030B ²⁾	3	1	40	80	80	23	30					2.1	
	C8-391.05-60 060	4	0	60	80	130	29	60	M16	101.6			5.3	
C10	C10-391.05-40 040	3	1	40	100	90	23	40				0.5	4.0	
	C10-391.05-60 075	4	0	60	100	130	29	75	M16	101.6	37.8	7.9		

¹⁾ 0 = no coolant, 1 = coolant through centre

²⁾ Coolant for boring

All holders are delivered with a standard screw without hole for coolant.

For cutters with coolant channels a new screw with radial coolant holes is necessary and can be ordered separately.

See page G152



G152



G6



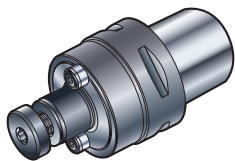
G2



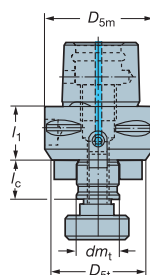
J3

Adaptor for face mills and square shoulder face mills

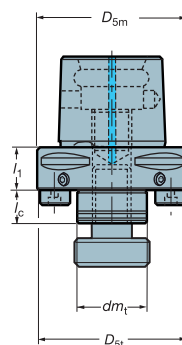
A391.05



Design 2

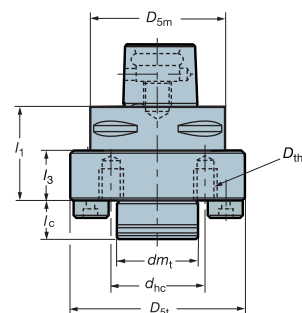


Design 3



Round driving keys

Design 4

 l_1 = programming length

Inch pilot

Coupling size	Ordering code	Design	Coolant ¹⁾	Dimensions, inch									Balanced by design
				dm_1	D_{sm}	D_{st}	l_c	l_1	D_{th}	d_{hc}	l_3	$\frac{\phi}{100}$	
C3	C3-A391.05-19 030	2	1	.750	1.260	1.575	.709	1.181				2.0	⊙
C4	C4-A391.05-19 025A	3	1	.750	1.575	1.575	.709	.984				0.8	⊙
	C4-A391.05-19 055	2	1	.750	1.575	1.575	.709	2.165				2.9	⊙
	C4-A391.05-25 035	2	1	1.000	1.575	1.968	.709	1.378				2.9	⊙
C5	C5-A391.05-19 025A	3	1	.750	1.968	1.968	.709	.984				1.4	⊙
	C5-A391.05-19 070	2	1	.750	1.968	1.693	.709	2.756				5.3	⊙
	C5-A391.05-25 025A	3	1	1.000	1.968	2.126	.709	.984				1.4	⊙
	C5-A391.05-31 040	2	1	1.250	1.968	2.480	.709	1.575				5.7	⊙
	C5-A391.05-38 045	2	1	1.500	1.968	3.150	.906	1.772				8.8	⊙
C6	C6-A391.05-19 030A	3	1	.750	2.480	2.047	.709	1.181				2.2	
	C6-A391.05-25 030A	3	1	1.000	2.480	2.480	.709	1.181				2.4	
	C6-A391.05-31 030A	3	1	1.250	2.480	2.559	.709	1.181				2.6	
	C6-A391.05-38 045	2	1	1.500	2.480	3.150	.906	1.772				9.7	
C8	C8-A391.05-19 030A	3	1	.750	3.150	2.047	.709	1.181				4.0	
	C8-A391.05-25 030A	3	1	1.000	3.150	2.480	.709	1.181				4.2	
	C8-A391.05-31 030A	3	1	1.250	3.150	2.835	.709	1.181				4.2	
	C8-A391.05-38 030A	3	1	1.500	3.150	3.150	.906	1.181				4.6	
	C8-A391.05-50 060	4	0	2.000	3.150	5.118	1.142	2.362	5/8"11UNC	4.000		12.6	
	C8-A391.05-63 060	4	0	2.500	3.150	5.118	1.142	2.362	5/8"11UNC	4.000		13.2	
C10	C10-A391.05-38 040	3	1	1.500	3.937	3.543	.906	1.575				.020	8.6
	C10-A391.05-63 075	4	0	2.500	3.937	5.118	1.142	2.953	5/8"11UNC	4.000	1.488	17.6	

¹⁾ 0 = no coolant, 1 = coolant through centre

All holders are delivered with a standard screw without hole for coolant.

For cutters with coolant channels a new screw with radial coolant holes is necessary and can be ordered separately.

See page G151



G151



G6



G2

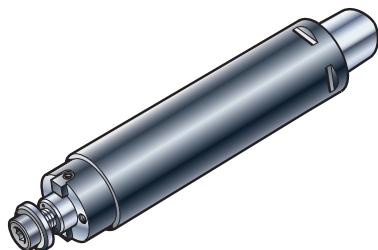


J3

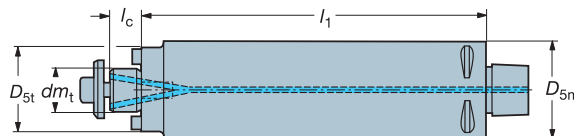
Dampened adaptor for face mills and square shoulder face mills

With coolant through arbor

391.05CD



Silent Tools®

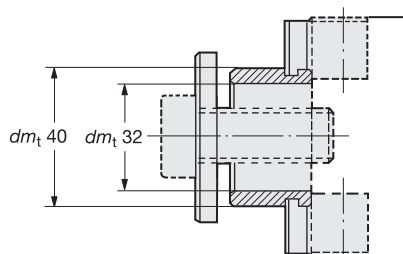


l_1 = programming length

Metric pilot

Coupling size	Ordering code	Coolant ¹⁾		Dimensions, mm							n_{max}	$\frac{a_{p0}}{mm}$
		Entry	Exit	d_{m_t}	D_{sm}	D_{st}	l_c	l_1				
C4	C4-391.05CD-16 130	1	4	16	40	40	11	130	10000	1.5		
	C4-391.05CD-16 200	1	4	16	40	40	11	200	7000	2.1		
C5	C5-391.05CD-22 180	1	4	22	50	48	16	180	10000	3.4		
	C5-391.05CD-22 270	1	4	22	50	48	16	270	7000	4.6		
C6	C6-391.05CD-22 200	1	4	22	63	48	16	200	10000	5.7		
	C6-391.05CD-22 310	1	4	22	63	48	16	310	7000	9.1		
	C6-391.05CD-27 200	1	4	27	63	55	18	200	10000	5.8		
	C6-391.05CD-27 310	1	4	27	63	55	18	310	7000	9.2		
C8	C8-391.05CD-27 220	1	4	27	80	55	18	220	8000	9.9		
	C8-391.05CD-27 360	1	4	27	80	55	18	360	5000	16.2		
	C8-391.05CD-32 220	1	4	32	80	70	20	220	8000	10.0		
	C8-391.05CD-32 360	1	4	32	80	70	20	360	5000	16.3		

¹⁾ 1 = coolant through centre, 4 = coolant through arbor

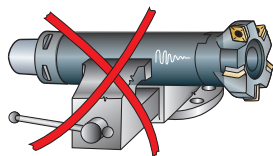


Sleeve set

Sleeve set to allow 40 mm pilot diameter to be mounted on adaptor C8-391.05CD-32 xxx.

Ordering code: 5638 035-011

For proper assembly fixtures, see information in Metal cutting technical guide



G155



G6



G2

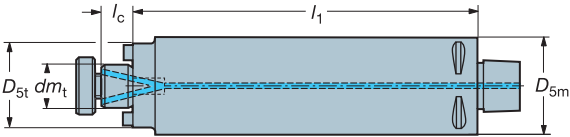
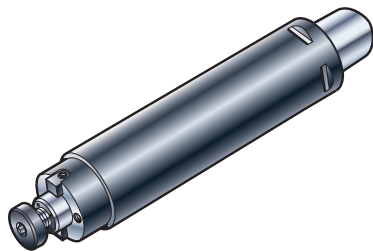


J3

D
E
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J

Dampened adaptor for face mills and square shoulder face mills

With coolant through arbor
A391.05CD



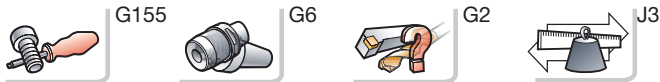
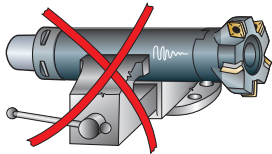
l_1 = programming ler

Inch pilot

Coupling size	Ordering code	Coolant ¹⁾		Dimensions, inch							
		Entry	Exit	d_{m_m}	d_{m_t}	D_{5m}	D_{5t}	l_c	l_1	n_{max}	
C5	C5-A391.05CD-19 180	1	4	1.378	.750	1.968	1.575	.709	7.087	10000	7.5
	C5-A391.05CD-19 270	1	4	1.378	.750	1.968	1.575	.709	10.630	7000	10.1
C6	C6-A391.05CD-25 200	1	4	1.732	1.000	2.480	2.165	.710	7.874	10000	12.6
	C6-A391.05CD-25 310	1	4	1.732	1.000	2.480	2.165	.710	12.205	7000	20.1
C8	C8-A391.05CD-38 220	1	4	2.165	1.500	3.150	2.756	.910	8.661	8000	22.0
	C8-A391.05CD-38 360	1	4	2.165	1.500	3.150	2.756	.910	14.173	5000	35.9

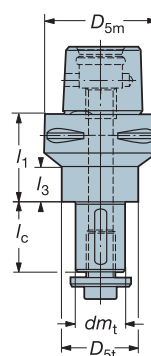
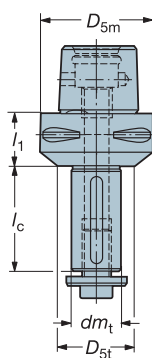
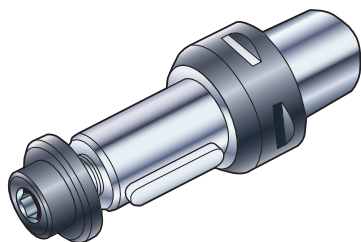
1) 1 = coolant through centre, 4 = coolant through arbor

For proper assembly fixtures, see information in Metal cutting technical guide



Adaptor for side and face mills

391.10



Coupling size C10

Spacing collars must be ordered separately.

 l_1 = programming length

Metric pilot

Coupling size	Ordering code	Coolant ¹⁾	Dimensions, mm						
			dm_t	D_{5m}	D_{5t}	l_c	l_1	l_3	$\frac{kg}{kg}$
C3	C3-391.10-16 020	0	16	32	28	30	20		0.2
C4	C4-391.10-16 025	0	16	40	28	30	25		0.3
	C4-391.10-22 025	0	22	40	36	40	25		0.4
	C4-391.10-27 025	0	27	40	40	60	25		0.6
C5	C5-391.10-22 025	0	22	50	36	40	25		0.7
	C5-391.10-27 025	0	27	50	43	60	25		0.8
	C5-391.10-32 025	0	32	50	50	60	25		0.9
C6	C6-391.10-16 030	0	16	63	28	30	30		0.9
	C6-391.10-22 030	0	22	63	36	40	30		1
	C6-391.10-27 030	0	27	63	43	60	30		1.2
	C6-391.10-32 025	0	32	63	48	60	25		1.2
	C6-391.10-40 025	0	40	63	56	60	25		1.4
C8	C8-391.10-22 040	0	22	80	36	40	40		2
	C8-391.10-27 030	0	27	80	43	60	30		2.1
	C8-391.10-32 030	0	32	80	48	60	30		2.2
	C8-391.10-40 030	0	40	80	56	60	30		2.5
	C8-391.10-50 030	0	50	80	70	60	30		2.8
	C8-391.10-60 030	0	60	80	80	60	30		3.4
C10	C10-391.10-32 065	0	32	100	48	60	65	20	4.3
	C10-391.10-40 070	0	40	100	56	60	70	25	4.8
	C10-391.10-50 055	0	50	100	84	80	55	10	5.8
	C10-391.10-60 040	0	60	100	70	90	40		5.4

¹⁾ 0 = no coolant

Spacing collars

		Ordering code	For adaptor	Dimensions, mm											
For milling adaptor 391.10 ISO 839/2 1977		Spacing collars	l_2 dm_t	0.5	1.0	1.5	2.0	3.0	4.0	5.0	6.0	10.0	20.0	30.0	
				D_1	D_1	D_1	D_1	D_1	D_1	D_1	D_1	D_1	D_1	D_1	D_1
		5549 091-011	391.10-16...	16	25	25	25	26	26	26	26	26	26	–	
		5549 091-021	391.10-22...	22	33	33	33	34	34	34	34	34	34	34	
		5549 091-031	391.10-27...	27	39	39	39	40	40	40	40	40	40	40	
		5549 091-041	391.10-32...	32	45	45	45	46	46	46	46	46	46	46	
		5549 091-051	391.10-40...	40	54	54	54	55	55	55	55	55	55	55	
		5549 091-061	391.10-50...	50	67	67	–	68	68	68	68	68	68	68	
		5549 091-071	391.10-60...	60	84	84	–	84	84	84	84	84	84	84	



G149



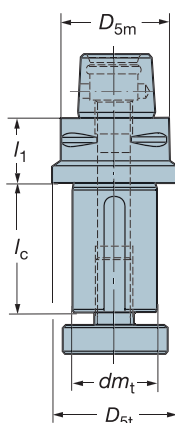
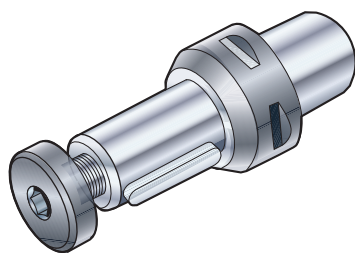
G6



G2

Adaptor for side and face mills

A391.10



Spacing collars must be ordered separately.

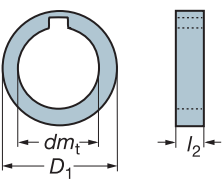
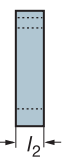
 l_1 = programming length

Inch pilot

Coupling size	Ordering code	Coolant ¹⁾	Dimensions, inch					
			dm_1	D_{5m}	D_{5t}	l_c	l_1	
C4	C4-A391.10-25 025	0	1.000	1.575	1.575	1.969	.984	2.4
	C4-A391.10-31 035	0	1.250	1.575	1.969	2.362	1.378	4.0
C5	C5-A391.10-25 025	0	1.000	1.968	1.693	1.969	.984	3.7
	C5-A391.10-31 025	0	1.250	1.968	1.969	2.362	.984	4.4
	C5-A391.10-38 030	0	1.500	1.968	2.244	2.362	1.181	5.5
C6	C6-A391.10-25 030	0	1.000	2.480	1.693	1.969	1.181	5.3
	C6-A391.10-31 025	0	1.250	2.480	1.890	2.362	.984	6.2
	C6-A391.10-38 025	0	1.500	2.480	2.205	2.362	.984	6.8
C8	C8-A391.10-25 030	0	1.000	3.150	1.693	1.969	1.181	9.7
	C8-A391.10-31 030	0	1.250	3.150	1.890	2.362	1.181	10.1
	C8-A391.10-38 030	0	1.500	3.150	2.205	2.362	1.181	12.1
	C8-A391.10-50 030	0	2.000	3.150	2.756	2.362	1.181	13.7
	C8-A391.10-63 040	0	2.500	3.150	3.346	2.362	1.575	17.4

¹⁾ 0 = no coolant

Spacing collars

Inch sizes For milling adaptor A391.10			For adaptor	Dimensions, inch										
				dm_t	D_1	B_{KW}	l_2							
							1/4	3/8	7/16	1/2	5/8	3/4	1	1 1/2
							Ordering code for one spacing collar							
Cx-A391.10-25 xxx	1.000	1.500	1/4	-	-	SC407	SC408	SC410	-	-	-			
Cx-A391.10-31 xxx	1.250	1.750	5/16	-	SC506	-	SC508	-	-	SC516	-			
Cx-A391.10-38 xxx	1.500	2.125	3/8	SC604	SC606	-	SC608	-	-	SC616	-			
Cx-A391.10-50 xxx	2.000	2.750	1/2	-	SC806	-	-	-	SC812	SC816	-			
Cx-A391.10-63 xxx	2.500	3.250	5/8	SC904	SC906	-	-	-	SC912	SC916	SC920			



G149



G6

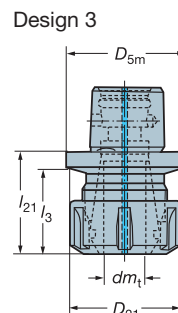
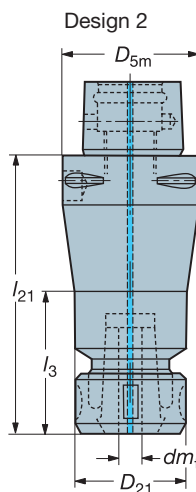
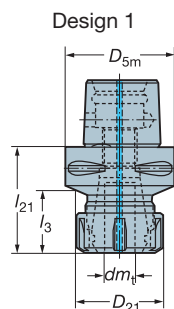
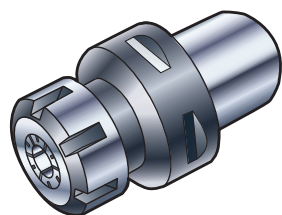


G2

ER collet chuck adaptor

391.14

DIN6499



Accessories
Not delivered with
the tool, must be
ordered separately.

Open style
393.14



Metallic
sealed style
393.15



See page

G138

G139

Coupling size	Design	Ordering code	Coolant ¹⁾	Dimensions, millimeter, inch (mm, in.)																Collet size	Balanced by design
				D _{5m} mm	D _{5m} in.	dm ₁ min mm	dm ₁ max mm	dm ₁ min in.	dm ₁ max in.	D ₂₁ mm	D ₂₁ in.	l ₃ mm	l ₃ in.	l ₂₁ mm	l ₂₁ in.	Ø _{kg}					
C3	1	C3-391.14-16 045	1	32	1.260	1	10	.039	.394	28	1.102	29	1.142	45	1.772	0.2	ER 16	⊙			
	3	C3-391.14-20 036	1	32	1.260	1	13	.039	.512	35	1.378			36	1.417	0.3	ER 20	⊙			
	1	C3-391.14-20 045	1	32	1.260	1	13	.039	.512	35	1.378	45	1.772	45	1.772	0.3	ER 20	⊙			
C4	2	C4-391.14-16 070	1	40	1.575	1	10	.039	.394	28	1.102	44	1.732	70	2.756	0.4	ER 16	⊙			
	3	C4-391.14-20 035	1	40	1.575	1	13	.039	.512	35	1.378	27	1.063	35	1.378	0.2	ER 20	⊙			
	1	C4-391.14-20 052	1	40	1.575	1	13	.039	.512	35	1.378	31	1.220	52	2.047	0.3	ER 20	⊙			
	3	C4-391.14-25 038	1	40	1.575	1	16	.039	.630	42	1.654			38	1.496	0.3	ER 25	⊙			
	1	C4-391.14-25 052	1	40	1.575	1	16	.039	.630	42	1.654	52	2.047	52	2.047	0.4	ER 25	⊙			
	1	C4-391.14-32 054	1	40	1.575	2	20	.079	.787	50	1.968	54	2.126	54	2.126	0.5	ER 32	⊙			
C5	2	C5-391.14-16 100	1	50	1.968	1	10	.039	.394	28	1.102	60	2.362	100	3.937	0.9	ER 16	⊙			
	1	C5-391.14-20 055	1	50	1.968	1	13	.039	.512	35	1.378	31	1.220	55	2.165	0.5	ER 20	⊙			
	1	C5-391.14-25 055	1	50	1.968	1	16	.039	.630	42	1.654	33	1.299	55	2.165	0.5	ER 25	⊙			
	3	C5-391.14-32 045	1	50	1.968	2	20	.079	.787	50	1.968			45	1.772	0.5	ER 32	⊙			
	1	C5-391.14-32 057	1	50	1.968	2	20	.079	.787	50	1.968	57	2.244	57	2.244	0.6	ER 32	⊙			
C6	2	C6-391.14-16 100	1	63	2.480	1	10	.039	.394	28	1.102	60	2.362	100	3.937	1.3	ER 16				
	1	C6-391.14-20 060	1	63	2.480	1	13	.039	.512	35	1.378	31	1.220	60	2.362	0.8	ER 20				
	1	C6-391.14-25 060	1	63	2.480	1	16	.039	.630	42	1.654	33	1.299	60	2.362	0.9	ER 25				
	2	C6-391.14-25 100	1	63	2.480	1	16	.039	.630	42	1.654	75	2.953	100	3.937	1.3	ER 25				
	1	C6-391.14-32 060	1	63	2.480	2	20	.079	.787	50	1.968	35	1.378	60	2.362	0.9	ER 32				
	2	C6-391.14-32 100	1	63	2.480	2	20	.079	.787	50	1.968	75	2.953	100	3.937	1.5	ER 32				
	1	C6-391.14-40 065	1	63	2.480	3	26	.118	1.024	63	2.480	65	2.559	65	2.559	1.1	ER 40				
C8	1	C8-391.14-20 065	1	80	3.150	1	13	.039	.512	35	1.378	30	1.181	65	2.559	1.4	ER 20				
	1	C8-391.14-25 070	1	80	3.150	1	16	.039	.630	42	1.654	32	1.260	70	2.756	1.6	ER 25				
	1	C8-391.14-32 070	1	80	3.150	2	20	.079	.787	50	1.968	35	1.378	70	2.756	1.8	ER 32				
	1	C8-391.14-40 070	1	80	3.150	3	26	.118	1.024	63	2.480	38	1.496	70	2.756	2.0	ER 40				
	1	C8-391.14-50 080	1	80	3.150	6	34	.236	1.339	78	3.071	50	1.968	80	3.150	2.3	ER 50				

Long version

Coupling size	Design	Ordering code	Coolant ¹⁾	Dimensions, millimeter, inch (mm, in.)														Collet size	Balanced by design
				D _{5m} mm	D _{5m} in.	d _{m1} min mm	d _{m1} max mm	d _{m1} min in.	d _{m1} max in.	D ₂₁ mm	D ₂₁ in.	l ₃ mm	l ₃ in.	l ₂₁ mm	l ₂₁ in.				
C5	2	C5-391.14-20 100	1	50	1.968	1	13	.039	.512	35	1.378	55	2.165	100	3.937	1.0	ER 20	⊙	
	2	C5-391.14-20 130	1	50	1.968	1	13	.039	.512	35	1.378	55	2.165	130	5.118	1.3	ER 20	⊙	
	2	C5-391.14-25 100	1	50	1.968	1	16	.039	.630	42	1.654	65	2.559	100	3.937	1.1	ER 25	⊙	
C6	1	C5-391.14-32 100	1	50	1.968	1	16	.039	.630	50	1.968	100	3.937	100	3.937	1.3	ER 32	⊙	
	2	C6-391.14-25 130	1	63	2.480	1	16	.039	.630	42	1.654	65	2.559	130	5.118	1.9	ER 25		
	2	C6-391.14-25 160	1	63	2.480	1	16	.039	.630	42	1.654	65	2.559	160	6.299	2.5	ER 25		
	2	C6-391.14-32 130	1	63	2.480	2	20	.079	.787	50	1.968	75	2.953	130	5.118	2.2	ER 32		
	1	C6-391.14-40 130	1	63	2.480	3	26	.118	1.024	63	2.480	130	5.118	130	5.118	2.8	ER 40		
	2	C8-391.14-32 160	1	80	3.150	2	20	.079	.787	50	1.968	75	2.953	160	6.299	4.1	ER 32		
C8	2	C8-391.14-40 160	1	80	3.150	3	26	.118	1.024	63	2.480	95	3.740	160	6.299	4.6	ER 40		
	2	C10-391.14-32 160	1	100	3.937	2	20	.079	.787	50	1.968	75	2.953	160	6.299	5.7	ER 32		
C10	2	C10-391.14-40 160	1	100	3.937	3	26	.118	1.024	63	2.480	95	3.740	160	6.299	5.9	ER 40		
	2	C10-391.14-50 160	1	100	3.937	6	34	.236	1.339	78	3.071	100	3.937	160	6.299	6.6	ER 50		

1) 1 = coolant through centre



G159



G6

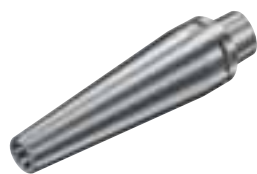


G2

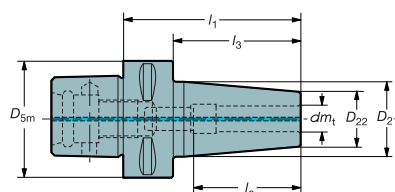
Coromant Capto® shrink fit adaptor

For cylindrical shanks

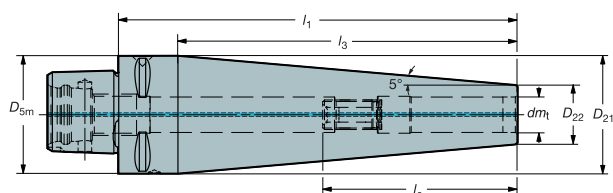
391.19



Design 1
Short design



Design 2
Conical design



Metric bore

Coupling size	Ordering code	Design	Coolant ¹⁾	Dimensions, mm									
				D_{5m}	dm_1	D_{21}	D_{22}	l_2 min	l_2 max	l_1	l_3		
C3	C3-391.19-06 118	2	1	32	6	32	14	26	36	118	103	0.4	
	C3-391.19-08 107	2	1	32	8	32	16	26	36	107	92	0.4	
	C3-391.19-10 095	2	1	32	10	32	18	31	41	95	80	0.4	
	C3-391.19-12 084	2	1	32	12	32	20	36	46	84	69	0.4	
C4	C4-391.19-06 075	1	1	40	6	27	20	26	36	75	55	0.4	
	C4-391.19-08 075	1	1	40	8	27	20	26	36	75	55	0.4	
	C4-391.19-10 075	1	1	40	10	32	24	31	41	75	55	0.5	
	C4-391.19-12 075	1	1	40	12	32	24	36	46	75	55	0.5	
	C4-391.19-12 135	2	1	40	12	40	20	36	46	135	115	0.8	
	C4-391.19-14 080	1	1	40	14	34	27	36	46	80	60	0.5	
	C4-391.19-16 080	1	1	40	16	34	27	39	49	80	60	0.5	
	C4-391.19-16 112	2	1	40	16	40	24	39	49	112	92	0.7	
	C4-391.19-18 080	1	1	40	18	42	33	39	49	80		0.7	
	C4-391.19-20 085	1	1	40	20	42	33	41	51	85		0.7	
	C4-391.19-20 089	2	1	40	20	40	28	41	51	89	69	0.6	
	C4-391.19-20 085	1	1	40	20	42	33	41	51	85		0.7	
C5	C5-391.19-06 075	1	1	50	6	27	20	26	36	75	55	0.6	
	C5-391.19-08 075	1	1	50	8	27	20	26	36	75	55	0.6	
	C5-391.19-10 075	1	1	50	10	32	24	31	41	75	55	0.7	
	C5-391.19-12 075	1	1	50	12	32	24	36	46	75	55	0.6	
	C5-391.19-14 080	1	1	50	14	34	27	36	46	80	60	0.7	
	C5-391.19-16 080	1	1	50	16	34	27	39	49	80	60	0.7	
	C5-391.19-18 080	1	1	50	18	42	33	39	49	80	60	0.9	
	C5-391.19-20 085	1	1	50	20	42	33	41	51	85	65	0.9	
	C5-391.19-20 146	2	1	50	20	50	28	41	51	146	126	1.4	
	C5-391.19-25 090	1	1	50	25	53	44	47	57	90		1.2	
	C5-391.19-25 118	2	1	50	25	50	33	47	57	118	98	1.2	
	C5-391.19-25 090	1	1	50	25	53	44	47	57	90		1.2	
C6	C6-391.19-06 080	1	1	63	6	27	20	26	36	80	58	0.9	
	C6-391.19-08 080	1	1	63	8	27	20	26	36	80	58	0.9	
	C6-391.19-10 080	1	1	63	10	32	24	31	41	80	58	1.0	
	C6-391.19-12 080	1	1	63	12	32	24	36	46	80	58	1.0	
	C6-391.19-14 085	1	1	63	14	34	27	36	46	85	63	1.1	
	C6-391.19-16 085	1	1	63	16	34	27	39	49	85	63	1.1	
	C6-391.19-18 085	1	1	63	18	42	33	39	49	85	63	1.3	
	C6-391.19-20 085	1	1	63	20	42	33	41	51	85	63	1.2	
	C6-391.19-25 090	1	1	63	25	53	44	47	57	90	68	1.5	
	C6-391.19-32 095	1	1	63	32	53	44	51	61	95	73	1.3	
C8	C8-391.19-10 090	1	1	80	10	32	24	31	41	90	60	2.0	
	C8-391.19-12 090	1	1	80	12	32	24	36	46	90	60	2.0	
	C8-391.19-16 095	1	1	80	16	34	27	39	49	95	65	2.0	
	C8-391.19-20 095	1	1	80	20	42	33	41	51	95	65	2.1	
	C8-391.19-25 100	1	1	80	25	53	44	47	57	100	70	2.5	
C10	C10-391.19-12 095	1	1	100	12	32	24	36	46	95	59	3.6	
	C10-391.19-16 100	1	1	100	16	34	27	39	49	100	64	3.6	
	C10-391.19-20 100	1	1	100	20	42	33	41	51	100	64	3.7	
	C10-391.19-25 110	1	1	100	25	53	44	47	57	110	74	4.2	

¹⁾ 1 = coolant through centre



G159



G6

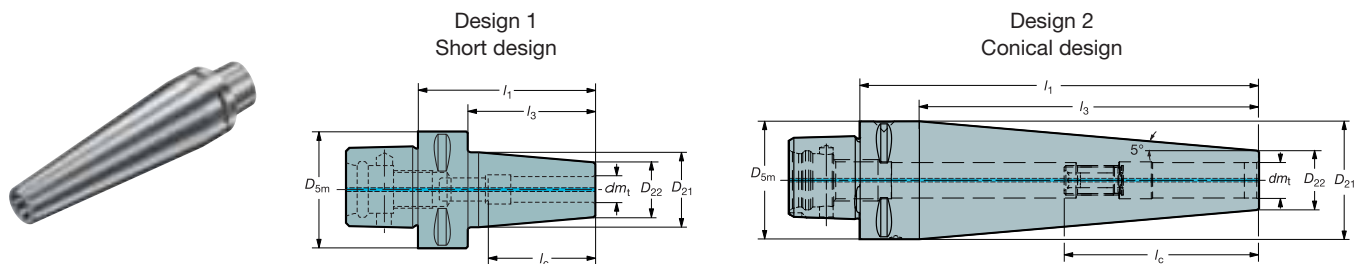


G2

Coromant Capto® shrink fit adaptor

For cylindrical shanks

391.19



Inch bore

Coupling size	Ordering code	Design	Coolant ¹⁾	Dimensions, inch									
				D_{5m}	dm_1	D_{21}	D_{22}	l_c min	l_c max	l_1	l_3	α	
C3	C3-A391.19-06 116	2	1	1.260	.250	1.260	.567	1.024	1.417	4.567	3.976	.44	
	C3-A391.19-09 098	2	1	1.260	.375	1.260	.689	1.220	1.614	3.858	3.268	.40	
	C3-A391.19-12 080	2	1	1.260	.500	1.260	.815	1.417	1.811	3.150	2.559	.35	
C4	C4-A391.19-12 131	2	1	1.575	.500	1.575	.815	1.417	1.811	5.158	4.370	.80	
	C4-A391.19-15 112	2	1	1.575	.625	1.575	.941	1.535	1.929	4.409	3.622	.74	
	C4-A391.19-19 094	2	1	1.575	.750	1.575	1.067	1.614	2.008	3.701	2.913	.63	
C5	C5-A391.19-19 151	2	1	1.968	.750	1.968	1.067	1.614	2.008	5.945	5.158	1.44	
	C5-A391.19-25 115	2	1	1.968	1.000	1.968	1.315	1.850	2.244	4.528	3.740	1.83	
C6	C6-A391.19-09 080	1	1	2.480	.375	1.260	.945	1.220	1.614	3.150	2.284	1.00	
	C6-A391.19-12 080	1	1	2.480	.500	1.260	.945	1.417	1.811	3.150	2.284	1.00	
	C6-A391.19-15 085	1	1	2.480	.625	1.339	1.063	1.535	1.929	3.346	2.480	1.06	
	C6-A391.19-19 085	1	1	2.480	.750	1.654	1.299	1.614	2.008	3.346	2.480	1.20	
C8	C8-A391.19-09 090	1	1	3.150	.375	1.260	.945	1.220	1.614	3.543	2.362	2.00	
	C8-A391.19-12 090	1	1	3.150	.500	1.260	.945	1.417	1.811	3.543	2.362	2.00	
	C8-A391.19-15 095	1	1	3.150	.625	1.339	1.063	1.535	1.929	3.740	2.559	2.05	
	C8-A391.19-19 095	1	1	3.150	.750	1.654	1.299	1.614	2.008	3.740	2.559	2.18	
C10	C10-A391.19-09 095	1	1	3.937	.375	1.260	.945	1.220	1.614	3.740	2.323	3.59	
	C10-A391.19-12 095	1	1	3.937	.500	1.260	.945	1.417	1.811	3.740	2.323	3.57	
	C10-A391.19-15 100	1	1	3.937	.625	1.339	1.063	1.535	1.929	3.937	2.520	3.64	
	C10-A391.19-19 100	1	1	3.937	.750	1.654	1.299	1.614	2.008	3.937	2.520	3.77	

¹⁾ 1 = coolant through centre

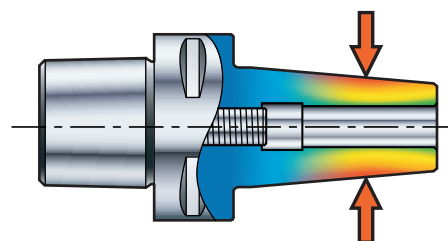
The cylindrical tool shank should be kept free from dirt and burrs before mounting into the adaptor to maintain a safe grip and precision. It should be mounted without use of any collets.

Note: Tolerance on tool shank diameter must be h6, or closer.

Heating equipment

- Controlled heat from the shrink fit machine expands inner diameter of the tool holder bore
- Tool shank inserted into adaptor
- Natural cooling contracts the bore to grip tool with high clamping force for strong tool holding and safe machining

Shrink fit adaptors are an essential link in the machining chain:
High technology machines, secure adaptors and productive tools



G159



G6

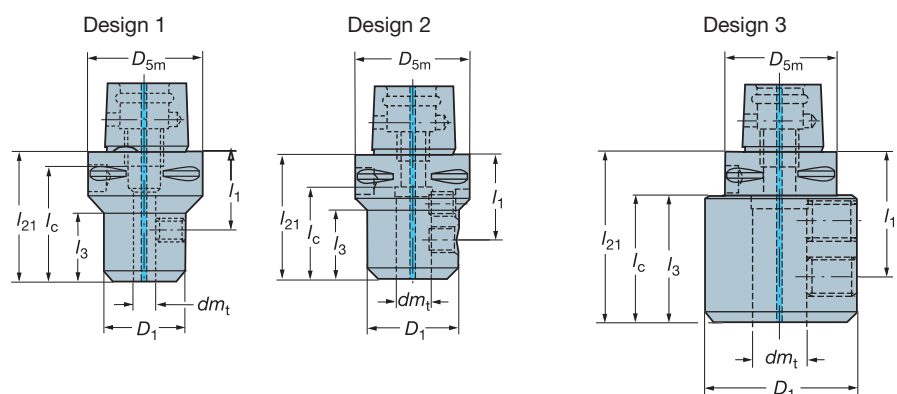
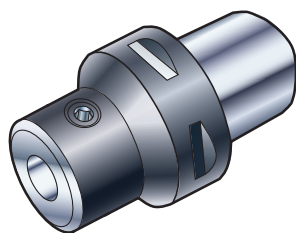


G2

Weldon shank adaptor

For shanks according to DIN 6535-HB

391.20



l_1 = programming length

Metric bore

Coupling size	Ordering code	Design	Coolant ¹⁾	Dimensions, mm								Balanced by design
				D_{5m}	dm_1	D_1	l_1	l_3	l_{21}	l_c	l_{KB}	
C3	C3-391.20-06 045A	1	1	32	6	25	28	27.5	46	37	0.3	⊙
	C3-391.20-08 045A	1	1	32	8	28	28	29	46	37	0.3	⊙
	C3-391.20-10 050	1	1	32	10	35	30	35	50	41	0.4	⊙
	C3-391.20-12 055	1	1	32	12	42	32.5	40	55	48	0.3	⊙
C4	C4-391.20-06 050	1	1	40	6	25	32	25.5	50	40	0.4	⊙
	C4-391.20-08 050	1	1	40	8	28	32	26.5	50	40	0.4	⊙
	C4-391.20-10 050A	1	1	40	10	35	30	29.6	51	41	0.5	⊙
	C4-391.20-12 055A	1	1	40	12	42	33.5	36	56	46	0.6	⊙
	C4-391.20-14 055	1	1	40	14	44	35	32.5	55	48	0.6	⊙
	C4-391.20-16 055	1	1	40	16	48	31	35	55	50	0.7	⊙
C5	C5-391.20-06 050	1	1	50	6	25	32	25.5	50	39	0.6	⊙
	C5-391.20-08 050	1	1	50	8	28	32	26	50	39	0.7	⊙
	C5-391.20-10 055	1	1	50	10	35	35	27.5	55	44	0.7	⊙
	C5-391.20-12 060	1	1	50	12	42	37.5	36	60	49	0.9	⊙
	C5-391.20-14 060	1	1	50	14	44	37.5	37	60	49	0.8	⊙
	C5-391.20-16 060	1	1	50	16	48	36	39	60	53	1.0	⊙
	C5-391.20-18 060	1	1	50	18	50	36		60	53	1.0	⊙
	C5-391.20-20 060	1	1	50	20	52	35	40	60	54	1.0	⊙
	C5-391.20-25 080	3	1	50	25	65	56	60	80	60	1.8	⊙
C6	C6-391.20-06 055	1	1	63	6	25	37	25	55	41	0.9	
	C6-391.20-08 055	1	1	63	8	28	37	26	55	41	0.9	
	C6-391.20-10 060	1	1	63	10	35	40	30	60	46	1.0	
	C6-391.20-12 060	1	1	63	12	42	37.5	33	60	46	1.1	
	C6-391.20-14 060	1	1	63	14	44	37.5	33.5	60	46	1.1	
	C6-391.20-16 065	1	1	63	16	48	41	35.5	65	51	1.2	
	C6-391.20-18 065	1	1	63	18	50	41	39	65	51	1.2	
	C6-391.20-20 065	1	1	63	20	52	40	37.5	65	54	1.5	
	C6-391.20-25 080	1	1	63	25	65	56	58	80	60	1.9	
	C6-391.20-32 090	3	1	63	32	72	66	68	90	64	2.4	
C8	C8-391.20-06 070	1	1	80	6	25	52	27	70	59	2.1	
	C8-391.20-08 070	1	1	80	8	28	52	28	70	59	2.1	
	C8-391.20-10 070	1	1	80	10	35	50	29.5	70	59	2.2	
	C8-391.20-12 070	1	1	80	12	42	47.5	31	70	59	2.2	
	C8-391.20-14 070	1	1	80	14	44	47.5	31.6	70	59	2.3	
	C8-391.20-16 070	1	1	80	16	48	46	32.5	70	59	2.3	
	C8-391.20-18 070	1	1	80	18	50	46	33	70	59	2.3	
	C8-391.20-20 070	1	1	80	20	52	45	35	70	54	2.4	
	C8-391.20-25 080	2	1	80	25	65	56	53.7	80	60	2.3	
	C8-391.20-32 080	2	1	80	32	72	56	53.7	80	64	2.9	
	C8-391.20-40 110	3	1	80	40	90	80	79	110	74	4.5	
	C8-391.20-50 120	3	1	80	50	100	85	89	120	84	5.5	

¹⁾ 1 = coolant through centre



G156



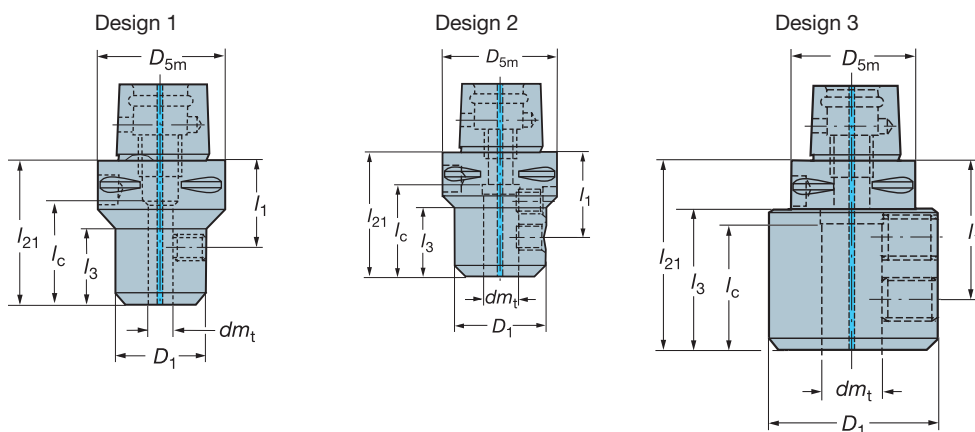
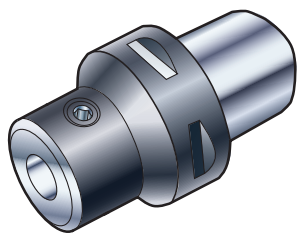
G6



G2

Weldon shank adaptor

A391.20


 l_1 = programming length

Inch bore

Coupling size	Ordering code	Design	Coolant ¹⁾	Dimensions, inch								Balanced by design
				dm_t	D_{5m}	D_1	l_1	l_3	l_{21}	l_c	$\frac{L}{L_{max}}$	
C3	C3-A391.20-09 050	1	1	.375	1.260	.984	1.181	1.248	1.969	1.575	0.9	⊙
	C3-A391.20-12 055	1	1	.500	1.260	1.260	1.280	1.563	2.165	1.772	2.0	⊙
C4	C4-A391.20-09 050A	1	1	.375	1.575	1.000	1.220	1.114	2.008	1.575	1.3	⊙
	C4-A391.20-12 055A	1	1	.500	1.575	1.250	1.319	1.252	2.205	1.772	1.3	⊙
	C4-A391.20-15 055	1	1	.625	1.575	1.625	1.213	1.378	2.165	1.890	3.3	⊙
	C4-A391.20-19 060	1	1	.750	1.575	1.752	1.378	1.575	2.362	2.008	4.0	⊙
C5	C5-A391.20-09 055	1	1	.375	1.968	1.000	1.378	1.102	2.165	1.575	3.3	⊙
	C5-A391.20-12 060	1	1	.500	1.968	1.250	1.476	1.406	2.362	1.772	4.4	⊙
	C5-A391.20-15 060A	1	1	.625	1.968	1.625	1.409	1.472	2.362	1.890	4.9	⊙
	C5-A391.20-19 060	1	1	.750	1.968	1.752	1.378	1.512	2.362	2.008	4.9	⊙
	C5-A391.20-22 075	3	1	.875	1.968	1.969	1.953	2.166	2.953	2.244	5.3	⊙
	C5-A391.20-25 085	3	1	1.000	1.968	2.248	2.402	2.559	3.346	2.362	8.8	⊙
	C5-A391.20-31 085	3	1	1.250	1.968	2.480	2.402	2.559	3.347	2.520	8.8	⊙
	C6-A391.20-09 060	1	1	.375	2.480	1.000	1.575	1.142	2.362	1.575	4.9	
C6	C6-A391.20-12 060	1	1	.500	2.480	1.250	1.484	1.260	2.362	1.772	5.3	
	C6-A391.20-15 065	1	1	.625	2.480	1.625	1.595	1.441	2.560	1.890	5.7	
	C6-A391.20-19 065A	1	1	.750	2.480	1.752	1.575	1.484	2.560	2.008	6.4	
	C6-A391.20-22 080	3	1	.875	2.480	1.969	2.150	2.205	2.560	2.244	6.8	
	C6-A391.20-25 085	3	1	1.000	2.480	2.248	2.402	2.402	3.347	2.262	8.4	
	C6-A391.20-31 085	3	1	1.250	2.480	2.480	2.402	3.347	3.347	2.520	8.8	
	C6-A391.20-38 090	3	1	1.500	2.480	2.756	2.362	2.677	3.543	2.717	9.7	
	C8-A391.20-09 070	1	1	.375	3.150	1.000	1.968	1.083	2.756	1.428	4.4	
C8	C8-A391.20-12 070	1	1	.500	3.150	1.248	1.870	1.220	2.756	1.628	4.4	
	C8-A391.20-15 070	1	1	.625	3.150	1.614	1.803	1.339	2.756	1.823	4.6	
	C8-A391.20-19 075	1	1	.750	3.150	1.752	1.968	1.437	2.953	1.890	4.9	
	C8-A391.20-22 080	2	1	.875	3.150	1.968	2.150	1.634	3.150	2.008	5.2	
	C8-A391.20-25 080	2	1	1.000	3.150	2.248	2.205	2.024	3.150	2.126	5.2	
	C8-A391.20-31 080	2	1	1.250	3.150	2.480	2.205	2.091	3.150	2.284	5.3	
	C8-A391.20-38 085	2	1	1.500	3.150	2.756	2.165	2.366	3.346	2.559	5.8	
	C8-A391.20-50 115	3	1	2.000	3.150	3.681	3.402	3.307	4.528	3.071	10.6	

¹⁾ 1 = coolant through centre


G156



G6

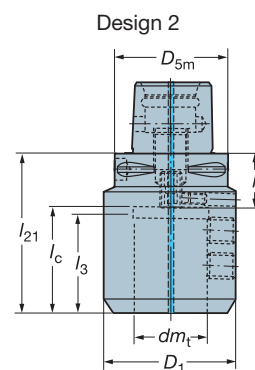
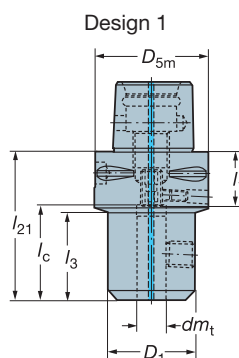
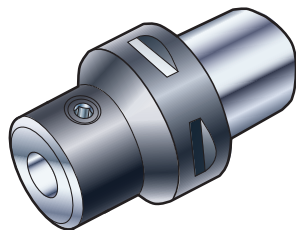


G2

Whistle Notch shank adaptor

For shanks according to DIN 6535-HE

391.21



l_1 = programming length

Metric bore

Coupling size	Ordering code	Design	Coolant ¹⁾	Dimensions, mm										Balanced by design
				dm_t	D_{5m}	D_1	l_1 min	max	l_{21}	l_3	l_c	l_1	l_3	
C3	C3-391.21-06 070A	1	1	6	32	25	32	40	70	53	30	0.3		⊙
	C3-391.21-08 070A	1	1	8	32	28	32	40	70	53	30	0.4		⊙
	C3-391.21-10 070	1	1	10	32	35	28	38	70	55	32	0.5		⊙
	C3-391.21-12 075	1	1	12	32	42	28	40	75	60	35	0.7		⊙
C4	C4-391.21-06 070A	1	1	6	40	25	32	40	70	37	30	0.5		⊙
	C4-391.21-08 070A	1	1	8	40	28	32	40	70	37	30	0.5		⊙
	C4-391.21-10 070	1	1	10	40	35	28	38	70	39	32	0.6		⊙
	C4-391.21-12 075	1	1	12	40	42	28	40	75	45	35	0.8		⊙
C5	C5-391.21-14 075	1	1	14	40	44	28	40	75	45	35	0.8		⊙
	C5-391.21-06 070A	1	1	6	50	25	32	40	70	37	30	0.7		⊙
	C5-391.21-08 070A	1	1	8	50	28	32	40	70	37	30	0.8		⊙
	C5-391.21-10 070	1	1	10	50	35	28	38	70	38	32	0.9		⊙
C6	C6-391.21-12 075	1	1	12	50	42	28	40	75	43	35	1.1		⊙
	C6-391.21-14 075	1	1	14	50	44	28	40	75	44	35	1.1		⊙
	C6-391.21-16 080	1	1	16	50	48	30	42	80	48	38	1.2		⊙
	C6-391.21-18 080	1	1	18	50	50	30	42	80		38	1.3		⊙
C7	C7-391.21-20 085	1	1	20	50	52	33	45	85	65	40	1.4		⊙
	C6-391.21-06 075A	1	1	6	63	25	37	45	75	35	30	1.3		
	C6-391.21-08 075A	1	1	8	63	28	37	45	75	35	30	1.3		
	C6-391.21-10 075	1	1	10	63	35	33	43	75	36	32	1.4		
C8	C8-391.21-12 080	1	1	12	63	42	33	45	80	42	35	1.5		
	C8-391.21-14 080	1	1	14	63	44	33	45	80	42	35	1.6		
	C8-391.21-16 080	1	1	16	63	48	30	42	80	47	38	1.6		
	C8-391.21-18 080	1	1	18	63	50	30	42	80	47	38	1.6		
C9	C9-391.21-20 085	1	1	20	63	52	33	45	85	51	40	1.7		
	C9-391.21-25 090	2	1	25	63	65	32	44	90	60	46	2.3		
	C9-391.21-32 095	2	1	32	63	72	33	45	95	73	50	2.5		
	C8-391.21-06 065A	1	1	6	80	25	27	35	65	25	30	2.1		
C10	C10-391.21-08 065A	1	1	8	80	28	27	35	65	25.5	30	2.2		
	C10-391.21-10 065	1	1	10	80	35	23	33	65	27	32	2.2		
	C10-391.21-12 070	1	1	12	80	42	23	35	70	33	35	2.4		
	C10-391.21-14 070	1	1	14	80	44	23	35	70	33.5	35	2.5		
C11	C11-391.21-16 075	1	1	16	80	48	25	37	75	39	38	2.6		
	C11-391.21-18 075	1	1	18	80	50	25	37	75	39.5	38	2.6		
	C11-391.21-20 080	1	1	20	80	52	28	40	80	45	40	2.7		
	C11-391.21-25 090	2	1	25	80	65	32	44	90	57	46	3.1		
C12	C12-391.21-32 095	2	1	32	80	72	33	45	95	63	50	3.4		

¹⁾ 1 = coolant through centre

Note! Tighten the screw with a torque wrench. Information on page G131.



G157



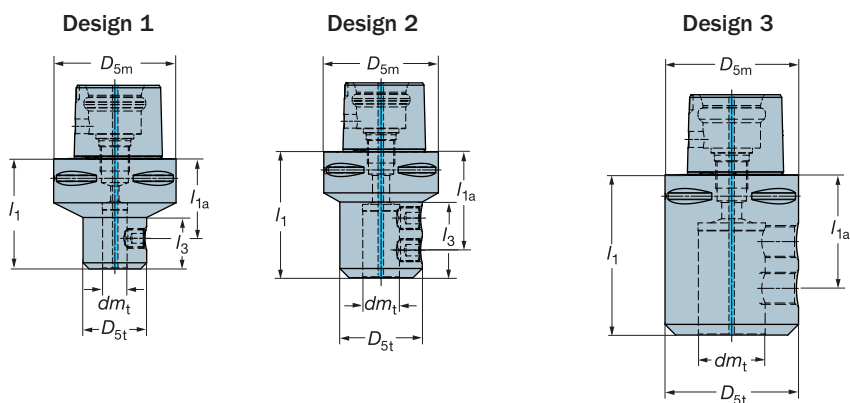
G6



G2

Combination adaptor for Weldon and drill shank (ISO 9766)

391.23 / A391.23


 l_1 = programming length

Metric bore

Coupling size	Ordering code	Design	Coolant ¹⁾	Dimensions, mm						
				D_{5m}	D_{5t}	dm_1	l_1	l_{1a}	l_3	
C10	C10-391.23-20 090	1	1	100	52	20	90	65	42	4.3
	C10-391.23-25 105	2	1	100	65	25	105	81	61	5.0
	C10-391.23-32 110	2	1	100	72	32	110	86	66	5.3
	C10-391.23-40 115	2	1	100	90	40	115	85	76	6.4
	C10-391.23-50 120	3	1	100	100	50	120	85		7.1

¹⁾ 1 = coolant through centre

Inch bore

Coupling size	Ordering code	Design	Coolant ¹⁾	Dimensions, inch						
				D_{5m}	D_{5t}	dm_1	l_1	l_{1a}	l_3	
C6	C6-A391.23-19 066	1	1	2.480	1.750	.750	2.598	1.614	1.524	1.20
	C6-A391.23-25 085	2	1	2.480	2.248	1.000	3.346	2.402	2.402	1.70
	C6-A391.23-31 085	3	1	2.480	2.480	1.250	3.346	2.402		1.80
	C6-A391.23-38 090	3	1	2.480	2.756	1.500	3.543	2.362		2.10
	C8-A391.23-19 075	1	1	3.150	1.750	.750	2.953	1.969	1.437	2.20
C8	C8-A391.23-25 080	2	1	3.150	2.248	1.000	3.150	2.205	2.024	2.30
	C8-A391.23-31 080	2	1	3.150	2.480	1.250	3.150	2.205	2.091	2.40
	C8-A391.23-38 085	2	1	3.150	2.756	1.500	3.346	2.165	2.366	2.60
	C8-A391.23-50 115	3	1	3.150	3.681	2.000	4.528	3.402		4.70
	C10-A391.23-19 090	1	1	3.937	1.750	.750	3.543	2.559	1.496	4.18
C10	C10-A391.23-25 105	2	1	3.937	2.248	1.000	4.134	3.189	2.421	4.58
	C10-A391.23-31 110	2	1	3.937	2.480	1.250	4.331	3.386	2.441	4.88
	C10-A391.23-38 115	2	1	3.937	2.756	1.500	4.528	3.347	2.835	5.11
	C10-A391.23-50 120	2	1	3.937	3.681	2.000	4.724	3.598	3.248	6.43

¹⁾ 1 = coolant through centre


G157



G6

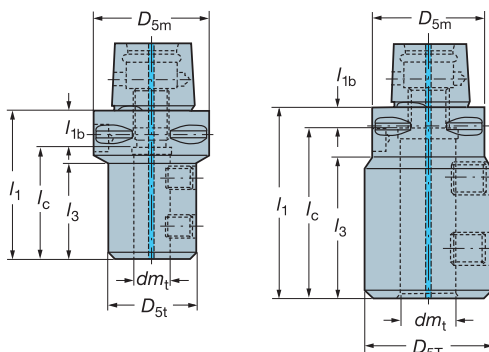
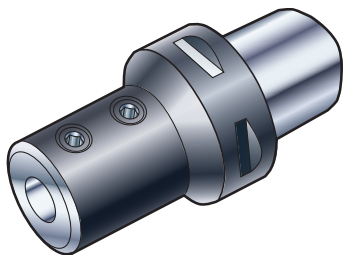


G2

Adaptor for drills

Shank according to ISO 9766

391.27



l1, l1b= programming length

Metric bore

Coupling size	Ordering code	Coolant ¹⁾	Dimensions, mm								
			dm _t	D _{5m}	D _{5t}	l ²⁾	l _b ³⁾	l ₃	l ₁	l _{1b}	
C3	C3-391.27-16 056	1	16	32	36	56	6.5	41	49.5	0.4	0.4
	C3-391.27-20 060	1	20	32	40	60	8.5	45	51.5	0.4	
C4	C4-391.27-16 056	1	16	40	36	56	6.5	32.5	49.5	0.6	0.6
	C4-391.27-20 060	1	20	40	40	60	8.5	60	51.5	0.6	
	C4-391.27-25 077	1	25	40	45	77	19.5	57	57.5	0.7	
C5	C5-391.27-16 065	1	16	50	36	65	15.5	41.7	49.5	0.7	0.7
	C5-391.27-20 060	1	20	50	40	60	8.5	37.7	51.5	0.7	
	C5-391.27-25 071	1	25	50	45	71	8.5	46.7	62.5	0.8	
	C5-391.27-32 075	1	32	50	52	75	13.5	55	61.5	1	
C6	C6-391.27-16 070	1	16	63	36	70	20.5	43	49.5	1.2	1.2
	C6-391.27-20 070	1	20	63	40	70	18.5	43.8	51.5	1.1	
	C6-391.27-25 070A	1	25	63	45	72	12.5	45.8	59.5	1.2	
	C6-391.27-32 075	1	32	63	52	75	13.5	49.8	61.5	1.3	
	C6-391.27-40 085	1	40	63	65	85	13.5	63	71.5	1.6	
	C6-391.27-50 115	1	50	63	75	115	33.5	93	81.5	2.6	
C8	C8-391.27-16 080	1	16	80	36	80	30.5	42	49.5	2.1	2.1
	C8-391.27-20 080	1	20	80	40	80	28.5	43.8	51.5	2.2	
	C8-391.27-25 085	1	25	80	45	85	27.5	49.8	57.5	2.4	
	C8-391.27-32 090	1	32	80	52	90	28.5	53.8	61.5	2.6	
	C8-391.27-40 095	1	40	80	65	95	23.5	62.8	71.5	2.8	
	C8-391.27-50 100	1	50	80	75	100	18.5	68.6	81.5	3.1	

¹⁾ 1 = coolant through centre

²⁾ Programming length for Coromant U and CoroDrill® 880 drills.

³⁾ Programming length for Coromant Delta drills.



G159



G6

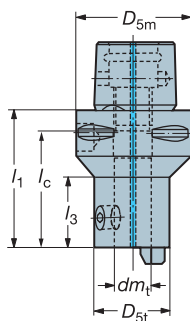
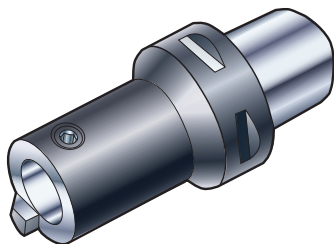


G2

Adaptor for drills

For Coromant Whistle Notch shank

391.25



l_1 = programming length

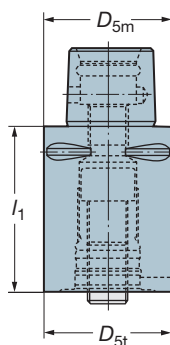
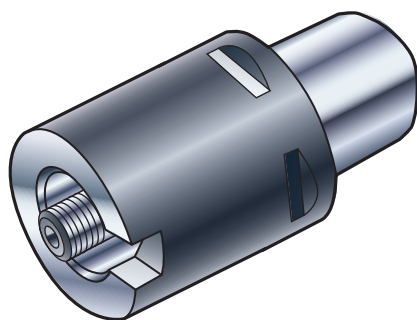
Metric bore

Coupling size	Ordering code	Coolant ¹⁾	Dimensions, mm						
			dm_h	D_{5m}	D_{5t}	h	h_3	h_c	 kg
C4	C4-391.25-16 060	1	16	40	32	60	36	51	0.5
	C4-391.25-20 060	1	20	40	32	60	36	51	0.4
	C4-391.25-25 075	1	25	40	40	75		56	0.5
C5	C5-391.25-16 060	1	16	50	32	60	31	51	0.7
	C5-391.25-20 060	1	20	50	32	60	31	51	0.6
	C5-391.25-25 065	1	25	50	40	65	42	56	0.7
	C5-391.25-32 070	1	32	50	50	70		60	0.7
C6	C6-391.25-16 060	1	16	63	32	60	29	60	0.8
	C6-391.25-20 060	1	20	63	32	60	29	51	0.7
	C6-391.25-25 065	1	25	63	40	65	36	56	1.1
	C6-391.25-32 070	1	32	63	50	70	41.5	60	1.2
	C6-391.25-40 085	1	40	63	60	85	61.5	70	1.4

¹⁾ 1 = coolant through centre



391.01

 l_1 = programming length

Coupling size		Ordering code	Coolant ¹⁾	Dimensions, millimeter, inch (mm, in.)						
Coromant Capto®	Varilock			D _{5m} mm	D _{5m} in.	D _{5t} mm	D _{5t} in.	l ₁ mm	l ₁ in.	
C5	50	C5-391.01-V50 060	1	50	1.968	50	1.968	60	2.362	1
C6	63	C6-391.01-V63 080	1	63	2.480	63	2.480	80	3.150	1.9
C8	80	C8-391.01-V80 065	1	80	3.150	80	3.150	65	2.559	3.2

1) 0 = no coolant, 1 = coolant through centre



G148



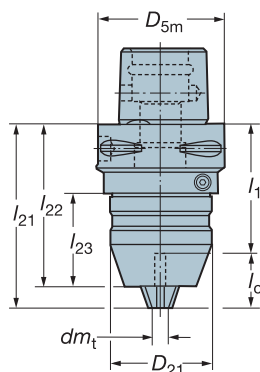
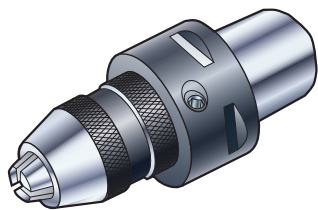
G6



G2

Drill chuck

391.31

 l_1 = programming length

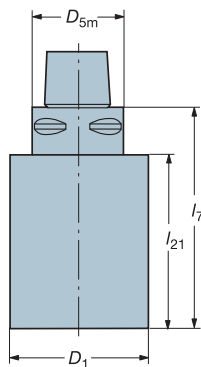
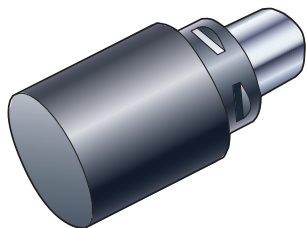
Metric bore

Coupling size	Ordering code	Coolant ¹⁾	Dimensions, mm										
			D_{5m}	dm min	max	D_{21}	l_1 min	max	l_{21} max	l_{22}	l_{23}	l_c	$\frac{kg}{kg}$
C3	C3-391.31-10 083M	0	32	1	10	44.0	43	56	83	72.0	42.0	27	0.4
	C3-391.31-13 100	0	32	1	13	49.5	56	73	100	89.5	46.5	27	0.7
C4	C4-391.31-10 087M	0	40	1	10	44.0	47	60	87	76.0	42.0	27	0.9
	C4-391.31-13 100	0	40	1	13	49.5	56	73	100	89.5	46.5	27	1.1
C5	C5-391.31-10 085M	0	50	1	10	44.0	45	58	85	74.0	42.0	27	1.0
	C5-391.31-13 090	0	50	1	13	49.5	46	63	90	79.5	46.5	27	1.3
C6	C6-391.31-13 092	0	63	1	13	49.5	48	65	92	81.5	46.5	27	1.8

¹⁾ 0 = no coolant

Blank adaptor

391.50



Coromant Capto® coupling blanks have a “soft” front, which allows machining of special shapes.

The blanks for making rotating units have a centre hole.

The material is 25 CR Mo4, low alloy steel.
Tensile strength 700 N/mm². HB 270 – 352.

Equilibrium temperature: 840-870°C
Cooling medium: Polymer
Tempering: 1 hour 200°C

If localized hardening is required, induction type hardening is to be used. Max. hardness which can be attained with this material 50 HRC

Coupling size	Ordering code	Coolant ¹⁾	Dimensions, millimeter, inch (mm, in.)								
			D _{5m} mm	D _{5m} in.	D ₁ mm	D ₁ in.	h mm	h in.	ℓ ₁ mm	ℓ ₁ in.	
C3	C3-391.50-32 090-B	0	32	1.260	32	1.260	90	3.543			0.6
	C3-391.50-60 090-B	0	32	1.260	60	2.362	90	3.543	73.8	2.906	1.7
C4	C4-391.50-40 120-B	0	40	1.575	40	1.575	120	4.724			1.3
	C4-391.50-80 120-B	0	40	1.575	80	3.150	120	4.724	100	3.937	4.2
C5	C5-391.50-50 150-B	0	50	1.968	50	1.968	150	5.906			2.5
	C5-391.50-95 150-B	0	50	1.968	95	3.740	150	5.906	130	5.118	7.7
C6	C6-391.50-63 180-B	0	63	2.480	63	2.480	180	7.087			4.6
	C6-391.50-120 180-B	0	63	2.480	120	4.724	180	7.087	158	6.220	15.0
C8	C8-391.50-80 200-B	0	80	3.150	80	3.150	200	7.874			8.5
	C8-391.50-145 200-B	0	80	3.150	145	5.709	200	7.874	169	6.654	24.5
C10	C10-391.50-100200-B	0	100	3.937	100	3.937	200	7.874			13.5
	C10-391.50-145200-B	0	100	3.937	145	5.709	200	7.874	163	6.417	24.5

¹⁾ 0 = no coolant

G159

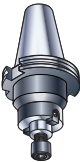
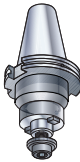
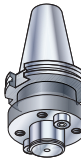
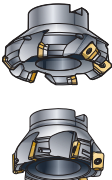
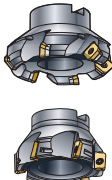


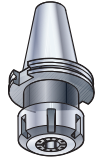
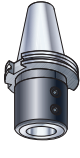
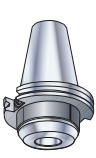
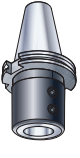
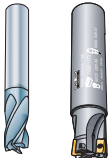
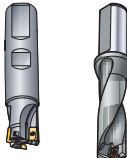
G6



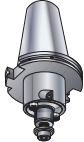
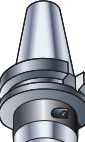
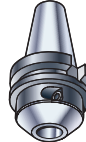
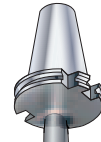
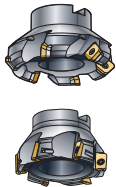
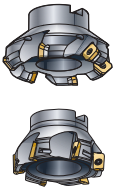
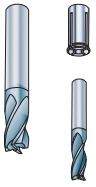
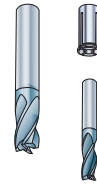
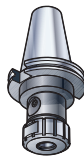
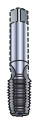
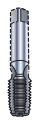
G2

Solid holding tools

Face mill holder	Face mill holder	Face mill holder	Face mill holder	Face mill holder for flange mounting	Face mill holder, Bridgeport
					
CAT V MAS-BT 403	ISO 7388/1 MAS-BT 403	BIG-PLUS ISO 7388/1 MAS-BT 403	BIG-PLUS CAT V	ISO 7388/1 MAS-BT 403	
AA2B05/ AA3B05	A1B05/ A2B05/A205	392.54005/55505	392.54505C/54555C	A1F05/A2F05	392.R8/A392.R8
Page G52	G51	G53	G54	G57	G56
					

Hydro-Grip® high precision chuck pencil type	Collet chuck	Collet chuck	End mill holder, Weldon type	Short end mill holder, Weldon type	Combination Weldon drill	Holder for drills
						
ISO 7388/1 MAS-BT 403 CAT V	CAT V ISO 7388/1 MAS-BT 403	BIG-PLUS ISO 7388/1 MAS-BT 403 CAT V	CAT V ISO 7388/1 MAS-BT 403	ISO 7388/1 MAS-BT 403	BIG-PLUS ISO 7388/1 MAS-BT 403 CAT V	ISO 7388/1 MAS-BT 403 CAT V
392.272/55/ 45CGB	AA3B14/ A1B14 /A2B14	392.54014/55514/ A392.54514	AA2B20/AA3B20/AA220-30/ A1B20/392.45520	A1X20/A2X20	392.54023/ 55523/ A392.54523	A1B27/A2B27/ AA3B27
Page G90	G58	G60	G62 G64 G65	G63	G67	G68
						

Solid holding tools

Hydro-Grip® high precision holder for face mills  CAT-V ISO 7388/1 MAS-BT 403	Side and face mill holder/combi holder  ISO 7388/1 MAS-BT 403	Side and face mill holder  CAT-V	Hydro-Grip Heavy Duty  ISO 7388/1 MAS-BT 403 CAT V	Hydro-Grip high precision chuck  ISO 7388/1 MAS-BT 403	Exchangeable - head holder, EH for CoroMill® 316   CAT-V ISO 7388/1 MAS-BT 403 Bridgeport	
AA3B05CG/ A1B05CG/ A2B05CG	A1B08/A208/ A2B08	AA3B10	392.45CGD/ .272CGD/.55CGD	392.272CG/.55CG/ .45CG	392.140EH/55EH/ 45EH	A392.R8EH
Page G91	G55	G55	G88	G89	G102	G103
						
Adjustable drill holder  DIN 69871-A MAS-BT 403	SynchroFlex® ER tapping chuck Collet type  Weldon DIN 7388/1	SynchroFlex® ER tapping chuck  MAS-BT	Quick-change Tap holder  Weldon Quick-change adaptor	Tap holder Floating rubber collet chuck  CAT-V	Collet chuck extension  DIN 6499	Hydro-Grip® high precision chuck 
392.140277/ .272277/.55277/ .58277/.45277	A393.2062/.2063	392.5563	393.2060/2061	A392.4560B	393.14	393.CGP/ 393.CGA
Page E129	G110	G109	G113	G118	G61	G96
						

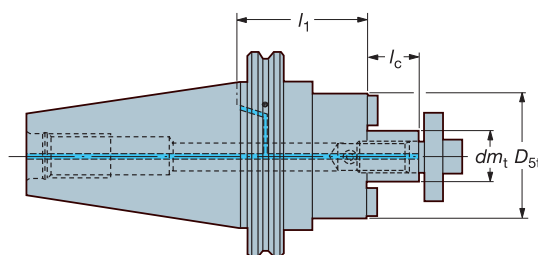
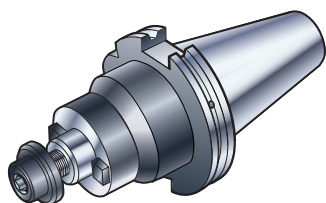
Code key for solid holding tools

A	A	1	B	05	-	50	32	060
1	2	3	4	5		6	7	8

1	Inch version	5	Holder type
2	Coolant through centre		05 = Face mill holder 14= ER Collet chuck 20=End mill holder Weldon type 27= Short hole drill holder-shank ISO 9766
3	Spindle type	6	Taper size 30, 40, 50
	1=ISO 7388/1 (DIN 69871) 2= MAS-BT 3=CAT V-Flange		
4		7	Size bore or pilot, dm_1
	B= Coolant through flange F= Flange mounting X= Extra short		mm (inch) 09 (0.375) 19 (0.750) 38 (1.500) 13 (0.500) 25 (1.000) 51 (2.000) 16 (0.625) 32 (1.250) 63 (2.500)
		8	Programming length, mm
			060 = 60 mm

Face mill holder

A1B05 / A2B05


 l_1 = programming length

Metric pilot

Machine design	Taper	Ordering code	Coolant ²⁾	Dimensions, mm				
				dm_t	D_{st}	l_1	l_c	
ISO7388.1	40	A1B05-40 16 035	7	16	36	35	17	0.9
		A1B05-40 16 100	7	16	36	100	17	1.8
		A1B05-40 22 035	7	22	48	35	19	1.0
		A1B05-40 22 100	7	22	48	100	19	1.9
		A1B05-40 27 035	7	27	48	35	21	1.1
		A1B05-40 27 100	7	27	60	100	21	2.4
		A1B05-40 32 050	7	32	78	50	24	1.6
	50	A1B05-50 22 035	7	22	48	35	19	2.8
		A1B05-50 22 100	7	22	48	100	19	3.7
		A1B05-50 27 035	7	27	60	35	21	3.0
		A1B05-50 27 100	7	27	60	100	21	4.4
		A1B05-50 32 035	7	32	78	35	24	3.2
		A1B05-50 32 100	7	32	78	100	24	5.6
		A1B05-50 40 050 ¹⁾	7	40	89	50	27	3.9
Machine design	Taper	Ordering code	Coolant ²⁾	Dimensions, mm				
				dm_t	D_{st}	l_1	l_c	
MAS-BT 403	30	A205-30 16 035	1	16	36	35	17	0.4
		A205-30 22 035	1	22	42	35	19	0.4
		A205-30 27 035	1	27	42	35	21	0.4
		A205-30 32 050	1	32	78	50	24	1.2
	40	A2B05-40 16 035	7	16	36	35	17	1.0
		A2B05-40 16 100	7	16	36	100	17	1.9
		A2B05-40 22 035	7	22	48	35	19	1.1
		A2B05-40 22 100	7	22	48	100	19	2.0
		A2B05-40 27 035	7	27	48	35	21	1.2
		A2B05-40 27 100	7	27	59	100	21	2.5
		A2B05-40 32 065	7	32	78	65	24	1.7
		A2B05-40 40 070	7	40	87	70	27	1.8
	50	A2B05-50 22 055	7	22	48	55	19	3.6
		A2B05-50 22 100	7	22	48	100	19	4.5
		A2B05-50 27 055	7	27	60	55	21	3.8
		A2B05-50 27 100	7	27	60	100	21	5.2
		A2B05-50 32 055	7	32	78	55	24	4.0
		A2B05-50 32 100	7	32	78	100	24	6.4
		A2B05-50 40 055 ¹⁾	7	40	89	55	27	4.7

¹⁾ Holder for flange clamping. For flange clamping use four screws, 3212 020-514 are used.

²⁾ 1 = coolant through centre, 7 = coolant through centre and through flange

All holders are delivered with a standard screw without hole for coolant.

For cutters with coolant channels a new screw with radial coolant holes is necessary and can be ordered separately. See page G160



G161



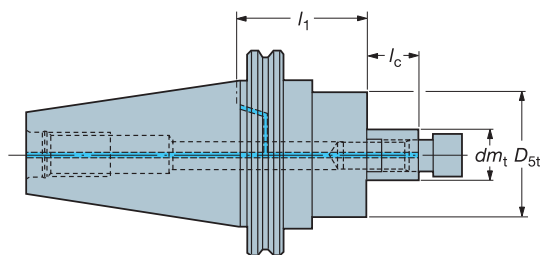
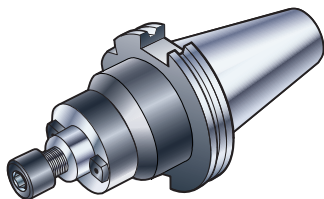
G48



G2

Face mill holder

AA2B05/ AA3B05/ AA205-30

 l_1 = programming length

Inch pilot

Machine design	Taper	Ordering code	Coolant ²⁾	Dimensions, inch					
				dm_t	D_{st}	l_1	l_c		
CAT V	40	AA3B05-40 16 035	7	.630	1.417	1.378	.669	2.1	
		AA3B05-40 19 038	7	.750	1.750	1.500	.687	2.4	
		AA3B05-40 22 035	7	.630	1.711	1.378	.748	2.2	
		AA3B05-40 25 051	7	1.000	2.250	2.000	.687	3.1	
		AA3B05-40 27 050	7	1.063	2.362	1.968	.827	2.4	
		AA3B05-40 32 050	7	1.260	3.071	1.968	.945	3.5	
		AA3B05-40 32 057	7	1.250	2.750	2.250	.687	4.0	
		AA3B05-40 38 061	7	1.500	3.750	2.400	.937	6.0	
	50	AA3B05-50 19 038	7	.750	1.750	1.500	.687	6.8	
		AA3B05-50 19 089	7	.750	1.750	3.500	.687	7.9	
		AA3B05-50 22 035	7	.866	1.711	1.378	.748	6.5	
		AA3B05-50 25 051	7	1.000	2.250	2.000	.687	7.5	
		AA3B05-50 25 101	7	1.000	2.250	4.000	.687	9.5	
		AA3B05-50 27 035	7	1.063	2.362	1.378	.827	6.6	
		AA3B05-50 32 038	7	1.250	2.750	1.500	.687	7.1	
		AA3B05-50 32 050	7	1.260	3.071	1.968	.945	7.1	
		AA3B05-50 32 089	7	1.250	2.750	3.500	.687	10.1	
		AA3B05-50 38 061	7	1.500	3.750	2.400	.937	10.4	
		AA3B05-50 38 101	7	1.500	3.750	4.000	.937	14.1	
		AA3B05-50 40 050	7	1.575	3.504	1.968	1.063	8.7	
		AA3B05-50 51 061 ¹⁾	7	2.000	4.875	2.400	.937	13.0	
		AA3B05-50 63 061 ¹⁾	7	2.500	4.875	2.400	1.125	14.1	
MAS-BT 403	30	AA2B05-30 19 030	1	.750	1.750	1.190	.690	1.1	
		AA2B05-30 25 045	1	1.000	2.390	1.770	.690	2.2	
	40	AA2B05-40 19 051	7	.750	1.750	2.000	.687	2.9	
		AA2B05-40 25 051	7	1.000	2.250	2.000	.687	3.3	
		AA2B05-40 32 057	7	1.250	2.750	2.250	.687	4.2	
		AA2B05-40 38 057	7	1.500	3.750	2.250	.937	6.0	

¹⁾ Includes (4) 5/8-11 tapped holes on 4" bolt circle²⁾ 1 = coolant through centre, 7 = coolant through centre and through flange

For flange mounting screw, see page G160

Metric pilot

Machine design	Taper	Ordering code	Coolant ¹⁾	Dimensions, inch					
				dm_t mm	dm_t inch	D_{st}	l_1	l_c	
CAT V	40	AA3B05-40 16 035	7	16	.630	1.417	1.378	.669	2.1
		AA3B05-40 22 035	7	22	.866	1.711	1.378	.748	2.2
		AA3B05-40 27 050	7	27	1.063	2.362	1.968	.827	2.4
		AA3B05-40 32 050	7	32	1.260	3.071	1.968	.945	3.5
	50	AA3B05-50 22 035	7	22	.866	1.711	1.378	.748	6.5
		AA3B05-50 27 035	7	27	1.063	2.362	1.378	.827	6.6
		AA3B05-50 32 050	7	32	1.260	3.071	1.968	.945	7.1
		AA3B05-50 40 050	7	40	1.575	3.504	1.968	1.063	8.7

¹⁾ 7 = coolant through centre and through flange

G160



G48



G2

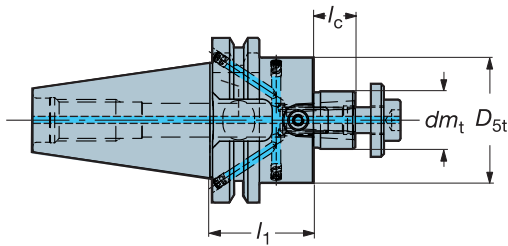
Face mill holder

BIG-PLUS

ISO taper DIN 69871-A

MAS-BT 403

392.54005 / 55505



BIG-PLUS SYSTEM - Licence BIG DAISHOWA

l_1 = programming length

Metric pilot

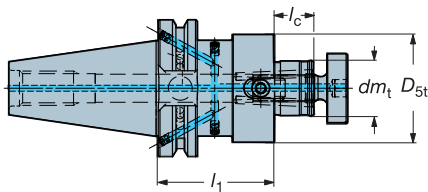
Machine design	Taper	Ordering code	Coolant	Dimensions, mm				
				d_m	D_{5t}	h	l_c	
ISO7388.1	40	392.54005C4016045	7	16	32	45	11	1.0
		392.54005C4022040	7	22	48	40	16	1.0
		392.54005C4027050	7	27	60	50	18	1.5
		392.54005C4032055	7	32	78	55	20	1.9
		392.54005C4040055	7	40	87	55	23	2.3
MAS-BT 403	40	392.55505C4016050	7	16	32	50	11	1.1
		392.55505C4022045	7	22	48	45	16	1.3
		392.55505C4027045	7	27	60	45	18	1.4
		392.55505C4032050	7	32	78	50	20	1.9
		392.55505C4040050	7	40	87	50	23	2.3

1) 7 = coolant through centre and through flange



D
E
F
G
J

Face mill holder
BIG-PLUS CAT-V
A392.54505C/55505C



BIG-PLUS SYSTEM - Licence BIG DAISHOWA

l_1 = programming length

Inch pilot

Machine design	Taper	Ordering code	Coolant	Dimensions, inch				
				dm_t	D_{5t}	l_1	l_c	
CAT V	40	A392.54505C4019040	7	.750	1.693	1.575	.709	2.4
		A392.54505C4025055	7	1.000	1.968	2.165	.709	3.1
		A392.54505C4038060	7	1.500	3.150	2.362	.906	5.0

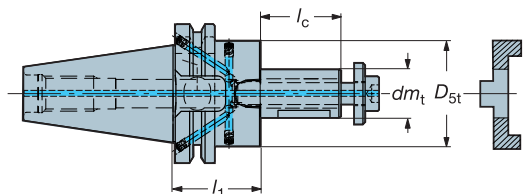
1) 7 = coolant through centre and through flange



Side and face mill holder

A1B08 / A208 / A2B08 / AA3B10

ISO 7388.1 **MAS-BT 403** CAT V



l_1 = programming length

Metric pilot

Machine design	Taper	Ordering code	Coolant ¹⁾	Dimensions, mm				
ISO7388.1	40	A1B08-40 22 055	7	22	40	43	31	1.2
		A1B08-40 27 055	7	27	48	43	33	1.4
		A1B08-40 32 060	7	32	58	46	38	1.8
		A1B08-40 40 060	7	40	70	46	41	2.1
MAS-BT 403	30	A208-30 16 045	1	16	32	35	27	0.5
		A208-30 22 047	1	22	40	35	31	0.6
	40	A208-40 27 055	7	27	48	43	33	0.7
		A2B08-40 22 055	7	22	40	43	31	1.3
		A2B08-40 27 055	7	27	48	43	33	1.5
		A2B08-40 32 060	7	32	58	46	38	1.8
		A2B08-40 40 070	7	40	70	56	41	2.3

1) 1 = coolant through centre, 7 = coolant through centre and through flange

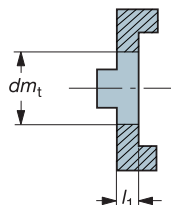
Inch pilot

Machine design	Taper	Ordering code	Coolant ²⁾	Dimensions, inch				
CAT V	40	AA3B10-40 25 055 ¹⁾	7	1.000	1.693	2.165	1.968	2.9
		AA3B10-40 31 060 ¹⁾	7	1.250	1.890	2.362	2.362	3.5
		AA3B10-40 38 060 ¹⁾	7	1.500	2.205	2.362	2.362	4.1

1) Without combi possibility

2) 7 = coolant through centre and through flange

Driving rings for combi holder 08.



dm_t	Driving ring	l_1
16	3193 010-160	10
22	3193 010-220	12
27	3193 010-270	12
32	3193 010-320	14
40	3193 010-400	14



G160



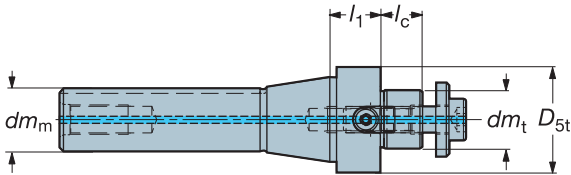
G48



G2

Face mill holder

Bridgeport
392.R8.05/A392.R8.05



l_1 = programming length

Metric pilot

Machine design	Taper	Ordering code	Dimensions, mm					
			dm_m	dm_t	D_{5t}	l_1	l_c	
Bridgeport	R8	392.R8.05-16 020	24.1	16	32	20	11	0.5
		392.R8.05-22 020	24.1	22	40	20	16	0.6

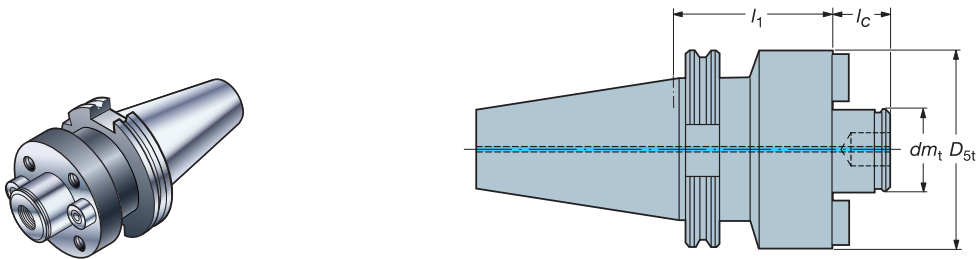
Inch pilot

Machine design	Taper	Ordering code	Dimensions, inch					
			dm_m	dm_t	D_{5t}	l_1	l_c	
Bridgeport	R8	A392.R8.05-19 020	.950	.750	1.575	.787	.709	1.3
		A392.R8.05-25 020	.950	1.000	1.968	.787	.709	1.7



Face milling holder for flange mounting

A1F05 / A2F05



l_1 = programming length

Metric pilot

Machine design	Taper	Ordering code	Coolant	Dimensions, mm				
				dm_t	D_{St}	l_1	l_c	
ISO7388.1	50	A1F05-50 60 070	7	60	127	70	40	6.9
MAS-BT 403	50	A2F05-50 60 080	7	60	127	80	40	7.7

1) 7 = coolant through centre and through flange

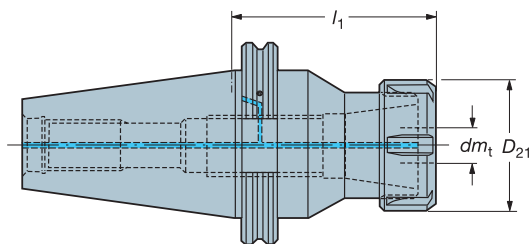
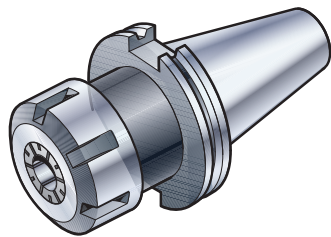


ER collet chuck

For DIN 6499 collets

ISO 7388, MAS-BT 403

A1B14 / A2B14 / AA3B14



Accessories	Open style	Metallic sealed style
Not delivered with the tool, must be ordered separately.	393.14	393.15
		
See page	G138	G139

Machine design	Taper	Ordering code	Coolant	Dimensions, mm					Collet size
				dm_1 min	dm_1 max	D_{21}	l_1	$\frac{m}{kg}$	
ISO7388.1	40	A1B14-40 16 070	7	0.5	10	28	70	0.9	ER 16
		A1B14-40 16 100	7	0.5	10	28	100	1.0	
		A1B14-40 20 070	7	1	13	34	70	0.9	ER 20
		A1B14-40 20 100	7	1	13	34	100	1.3	
		A1B14-40 25 070	7	1.5	16	42	70	1.0	ER 25
		A1B14-40 25 100	7	1.5	16	42	100	1.3	
		A1B14-40 32 070	7	2	20	50	70	1.0	ER 32
		A1B14-40 40 070	7	3	26	63	70	1.0	ER 40
	50	A1B14-50 20 070	7	1	13	34	70	2.8	ER 20
		A1B14-50 20 100	7	1	13	34	100	3.2	
		A1B14-50 25 070	7	1.5	16	42	70	2.9	ER 25
		A1B14-50 25 100	7	1.5	16	42	100	3.2	
		A1B14-50 32 070	7	2	20	50	70	2.9	ER 32
		A1B14-50 32 100	7	2	20	50	100	3.2	
		A1B14-50 40 070	7	3	26	63	70	2.8	ER 40
		A1B14-50 40 070	7	3	26	63	70	2.8	ER 40
MAS-BT 403	30	A214-30 16 080	1	0.5	10	28	80	0.5	ER 16
		A214-30 16 100	1	0.5	10	28	100	0.7	
		A214-30 16 130	1	0.5	10	28	130	0.8	
		A214-30 20 090	1	1	13	34	90	0.7	ER 20
		A214-30 20 130	1	1	13	34	130	0.8	
		A214-30 25 100	1	1.5	16	42	100	1.0	ER 25
		A214-30 25 130	1	1.5	16	42	130	1.2	
		A214-30 32 130	1	2	20	50	130	1.1	ER 32
		A2B14-30 11 050	1	0.75	7	19	50	0.4	ER 11
		A2B14-30 16 050	1	0.5	10	28	50	0.4	ER 16
		A2B14-30 20 050	1	1	13	34	50	0.4	ER 20
		A2B14-30 25 062	1	1.5	16	42	62	0.5	ER 25
		A2B14-30 32 060	1	2	20	50	60	0.4	ER 32
Machine design MAS-BT 403	40	A2B14-40 16 070	7	0.5	10	28	70	1.0	ER 16
		A2B14-40 16 100	7	0.5	10	28	100	1.2	
		A2B14-40 20 070	7	1	13	34	70	1.0	ER 20
		A2B14-40 20 100	7	1	13	34	100	1.4	
		A2B14-40 25 070	7	1.5	16	42	70	1.0	ER 25
		A2B14-40 25 100	7	1.5	16	42	100	1.4	
		A2B14-40 32 070	7	2	20	50	70	1.0	ER 32
		A2B14-40 40 070	7	3	26	63	70	1.0	ER 40
	50	A2B14-50 20 070	7	1	13	34	70	3.6	ER 20
		A2B14-50 20 100	7	1	13	34	100	4.0	
		A2B14-50 25 070	7	1.5	16	42	70	3.7	ER 25
		A2B14-50 25 100	7	1.5	16	42	100	4.0	
		A2B14-50 32 070	7	2	20	50	70	3.6	ER 32
		A2B14-50 32 100	7	2	20	50	100	4.1	
		A2B14-50 40 080	7	3	26	63	80	3.6	ER 40
		A2B14-50 40 080	7	3	26	63	80	3.6	ER 40

1) 1 = coolant through centre, 7 = coolant through centre and through flange



G164



G48



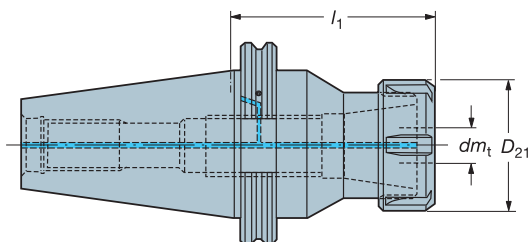
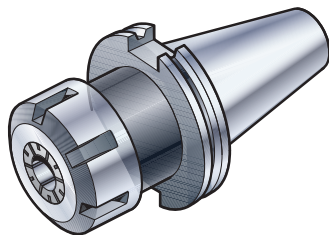
G2

ER collet chuck

For DIN 6499 collets

ISO 7388, MAS-BT 403

A1B14 / A2B14 / AA3B14



Accessories

Not delivered with the tool, must be ordered separately.

Open style
393.14



Metallic sealed style
393.15



See page

G138

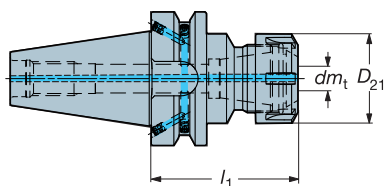
G139

Machine design	Taper	Ordering code	Coolant ¹⁾	Dimensions, inch					Collet size
				dm_1 min	dm_1 max	D_{21}	l_1		
CAT V	40	AA3B14-40 11 070	7	.030	.276	.748	2.756	2.0	ER 11
		AA3B14-40 16 067	7	.020	.394	1.102	2.620	2.1	ER 16
		AA3B14-40 16 105	7	.020	.394	1.102	4.120	2.7	
		AA3B14-40 20 070	7	.039	.512	1.339	2.756	2.0	ER 20
		AA3B14-40 20 105	7	.039	.512	1.339	4.120	2.7	
		AA3B14-40 20 156	7	.039	.512	1.339	6.120	3.3	
		AA3B14-40 25 070	7	.059	.630	1.654	2.756	2.0	ER 25
		AA3B14-40 25 105	7	.059	.630	1.654	4.120	2.9	
		AA3B14-40 25 156	7	.059	.630	1.654	6.120	3.9	
		AA3B14-40 32 079	7	.079	.787	1.968	3.120	2.7	ER 32
		AA3B14-40 32 105	7	.079	.787	1.968	4.120	3.3	
		AA3B14-40 40 105	7	.118	1.024	2.480	4.120	3.9	ER 40
	50	AA3B14-50 16 105	7	.020	.394	1.102	4.120	7.0	ER 16
		AA3B14-50 20 105	7	.039	.512	1.339	4.120	7.0	ER 20
		AA3B14-50 25 105	7	.059	.630	1.654	4.120	7.4	ER 25
		AA3B14-50 32 105	7	.079	.787	1.968	4.120	7.8	ER 32
		AA3B14-50 40 105	7	.118	1.024	2.480	4.120	8.6	ER 40

1) 1 = coolant through centre, 7 = coolant through centre and through flange



BIG-PLUS



Accessories	Open style	Metallic sealed style
Not delivered with the tool, must be ordered separately.	393.14	393.15
		
See page	G138	G139

Machine design	Taper	Ordering code	Coolant ¹⁾	Dimensions, mm					Collet size
				d_{M} min	d_{M} max	D_{21}	h		
ISO7388.1	40	392.54014-4025070	7	1	16	42	70	1.0	ER 25
		392.54014-4040075	7	3	26	63	75	1.4	ER 40
MAS-BT 403	40	392.55514-4025070	7	1	16	42	70	1.2	ER 25
		392.55514-4040070	7	3	26	63	70	1.4	ER 40

1) 7 = coolant through centre and through flange

Machine design	Taper	Ordering code	Coolant ¹⁾	Dimensions, inch					Collet size
				dm_k min	dm_k max	D_{21}	h_1	 Lbs	
CAT V	40	A392.54514-4025070	7	.039	.630	1.654	2.756	2.4	ER 25
		A392.54514-4040075	7	.118	1.024	2.480	2.953	3.0	ER 40

1) 7 = coolant through centre and through flange



G164



G48



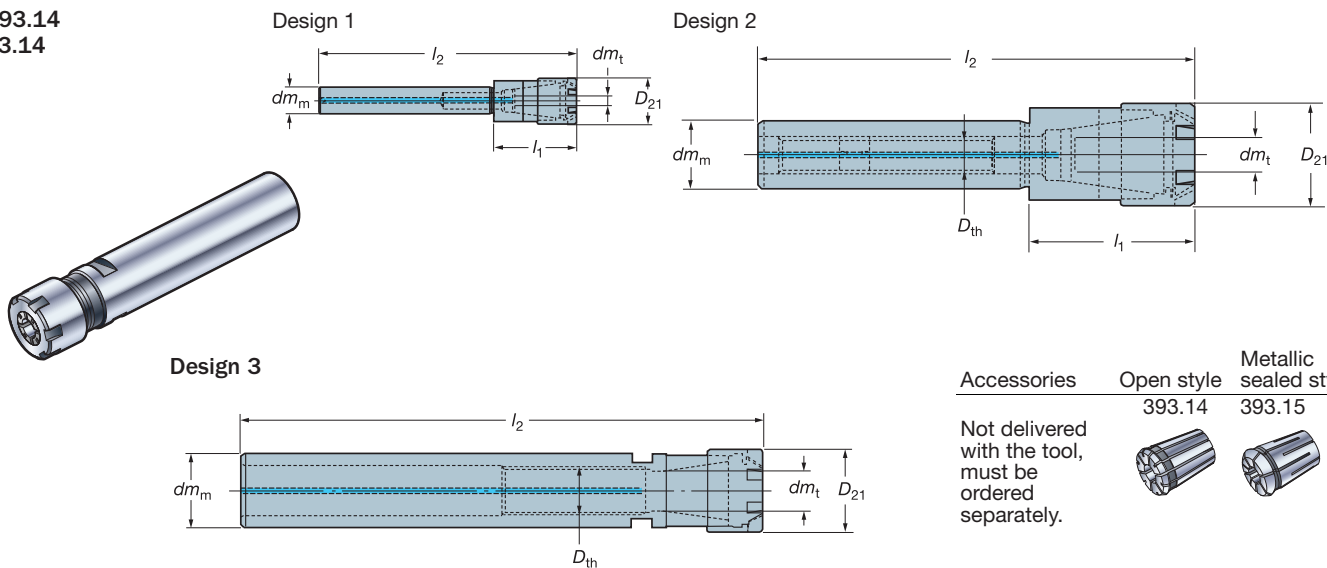
G2

ER collet chuck extension

For DIN 6499 collets

Plain parallel shank

A393.14
393.14



Accessories	Open style	Metallic sealed style
	393.14	393.15
Not delivered with the tool, must be ordered separately.		
See page	G138	G139

Metric shank

Ordering code	Design	Coolant ¹⁾	Dimensions, mm							Collet size
			dm_m	dm_t	D_{21}	l_1	l_2	D_{th}		
393.14-12 16 080	1	1	12	7	22	38.5	118.500	0.1		ER 16
393.14-08 11 056	1	1	8	4	16	26.5	82.500	0.0		ER 11
393.14-16 11 150	2	1	16	8	16	21	171.000	M8x1	0.2	ER 11
393.14-20 16 155	2	1	20	12	22	26.5	181.500	M12x1	0.3	ER 16
393.14-25 20 170A	3	1	25	13.5	28		182.000	M14x1	0.4	ER 20

Inch shank

			Dimensions, inch							
Ordering code	Design	Coolant ¹⁾	dm_m	D_{21}	l_1	l_2	D_{th}		Collet size	
A393.14-13 16 182	2	1	.500	.866	1.457	6.968	M6x1	0.7	ER 16	
A393.14-19 20 187	2	1	.750	1.102	1.457	7.362	M12x1	0.9	ER 20	
A393.14-19 25 203	2	1	.750	1.642	1.850	7.992	M12x1	2.2	ER 25	
A393.14-26 25 203	2	1	1.000	1.642	1.850	7.992	M18x1.5	3.5	ER 25	
A393.14-26 32 203	2	1	1.000	1.957	2.087	7.992	M18x1.5	2.6	ER 32	
A393.14-19 16 182	3	1	.750	.866		7.146	M12x1	0.8	ER 16	
A393.14-26 20 203	3	1	1.000	1.102		7.992	M14x1	1.8	ER 20	

1) 1 = coolant through centre



G165



G48

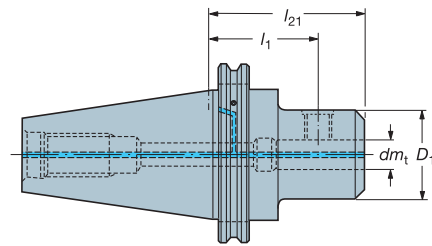
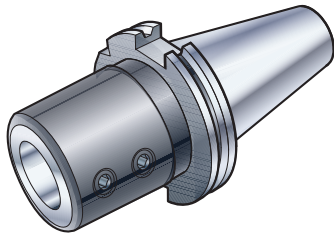


G2

End mill holder, Weldon type

Shank according to DIN 6535-HB

AA2B20/ AA3B20/ AA220-30



l_1 = programming length

Inch bore

Machine design	Taper	Ordering code	Coolant ¹⁾	Dimensions, inch				
				dm_1	D_1	l_1	l_{21}	
CAT V	40	AA3B20-40 03 044	7	.125	.688	1.375	1.750	1.8
		AA3B20-40 06 063	7	.250	.875	2.125	2.500	2.4
		AA3B20-40 09 044	7	.375	1.000	1.125	1.750	2.0
		AA3B20-40 09 063	7	.375	1.000	1.750	2.500	2.4
		AA3B20-40 13 044	7	.500	1.750	.875	1.750	2.2
		AA3B20-40 13 067	7	.500	1.750	1.745	2.620	2.4
		AA3B20-40 16 044	7	.625	1.750	.875	1.750	2.2
		AA3B20-40 16 070	7	.625	1.750	1.812	2.750	2.6
		AA3B20-40 19 044	7	.750	1.750	.750	1.750	2.2
		AA3B20-40 19 089	7	.750	1.750	2.500	3.500	3.1
		AA3B20-40 22 095	7	.875	1.850	2.750	3.750	3.3
		AA3B20-40 25 044	7	1.000	1.900	.625	1.750	2.0
		AA3B20-40 25 101	7	1.000	2.000	2.875	4.000	3.3
		AA3B20-40 32 101	7	1.250	2.500	2.875	4.000	4.4
		AA3B20-40 38 101	7	1.500	2.620	2.875	4.000	4.6
	50	AA3B20-50 09 063	7	.375	1.000	1.750	2.500	6.6
		AA3B20-50 09 165	7	.375	1.000	5.750	6.500	7.5
		AA3B20-50 13 067	7	.500	1.250	1.775	2.625	6.8
		AA3B20-50 13 168	7	.500	1.250	5.750	6.625	8.4
		AA3B20-50 16 095	7	.625	1.500	2.812	3.750	7.3
		AA3B20-50 16 197	7	.625	1.500	6.812	7.750	9.3
		AA3B20-50 19 095	7	.750	1.750	2.750	3.750	7.7
		AA3B20-50 19 197	7	.750	1.750	6.750	7.750	10.4
		AA3B20-50 22 095	7	.875	1.850	2.750	3.750	7.7
		AA3B20-50 22 197	7	.875	1.875	6.750	7.750	10.8
		AA3B20-50 25 101	7	1.000	2.000	2.875	4.000	7.9
		AA3B20-50 25 203	7	1.000	2.000	6.866	8.000	11.5
		AA3B20-50 32 101	7	1.250	2.750	2.885	4.000	8.8
		AA3B20-50 32 203	7	1.250	2.500	6.875	8.000	13.7
		AA3B20-50 38 101	7	1.500	2.750	2.875	4.000	8.6
		AA3B20-50 38 203	7	1.500	2.750	6.875	8.000	14.8
		AA3B20-50 51 143	7	2.000	3.750	4.219	5.625	15.7
		AA3B20-50 51 244	7	2.000	3.750	8.219	9.625	27.6

Inch bore

Machine design	Taper	Ordering code	Coolant ¹⁾	Dimensions, inch				
				dm_1	D_1	l_1	l_{21}	
MAS-BT 403	30	AA220-30 03 060	1	.125	.750	2.000	2.380	1.1
		AA220-30 06 060	1	.250	.810	2.000	2.380	1.1
		AA220-30 09 060	1	.375	1.380	1.630	2.380	1.3
		AA220-30 13 060	1	.500	1.380	1.500	2.380	1.3
	40	AA2B20-40 09 057	7	.375	1.000	1.500	2.250	2.2
		AA2B20-40 13 057	7	.500	1.250	1.375	2.250	2.4
		AA2B20-40 16 057	7	.625	1.500	1.312	2.250	2.4
		AA2B20-40 19 086	7	.750	1.750	2.375	3.375	3.1
		AA2B20-40 25 101	7	1.000	2.000	2.875	4.000	3.7
		AA2B20-40 32 101	7	1.250	2.500	2.875	4.000	4.9

1) 1 = coolant through centre, 7 = coolant through centre and through flange



G167



G48

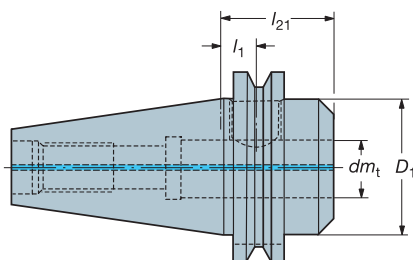
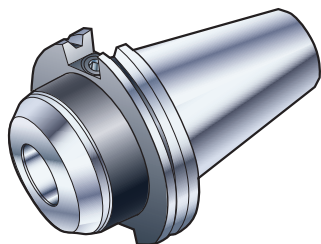


G2

End mill holder, Weldon type, short version

Shank according to DIN 6535-HB

A1X20 / A2X20



l_1 = programming length

Metric bore

Machine design	Taper	Ordering code	Coolant ¹⁾	Dimensions, mm				
				dm_t	D_1	l_1	l_{21}	$\frac{R}{K_1}$
ISO7388.1	40	A1X20-40 16 035	1	16	48	11.5	35	0.8
		A1X20-40 18 035	1	18	48	11.5	35	0.9
		A1X20-40 20 040	1	20	49.8	15	40	0.9
		A1X20-40 25 060	1	25	62	36	60	1.3
		A1X20-40 32 070	1	32	72	48	70	1.7
MAS-BT 403	40	A2X20-40 16 035	1	16	48	11	35	0.9
		A2X20-40 18 035	1	18	50	11	35	1.0
		A2X20-40 20 035	1	20	52	11	35	1.0
		A2X20-40 25 060	1	25	59	36	60	1.4
		A2X20-40 32 065	1	32	59	41	65	1.8

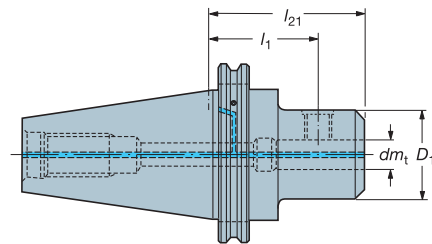
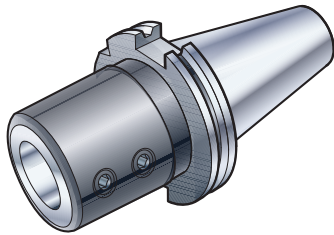
¹⁾ 1 = coolant through centre



End mill holder, Weldon type

Shank according to DIN 6535-HB

A1B20



l_1 = programming length

Metric bore

Machine design ISO7388.1	Taper	Ordering code	Coolant ¹⁾	Dimensions, mm				
				dm_1	D_1	l_1	l_{21}	
	40	A1B20-40 06 050	7	6	25	32	50	0.9
		A1B20-40 06 100	7	6	25	82	100	1.0
		A1B20-40 08 050	7	8	28	32	50	0.9
		A1B20-40 08 100	7	8	28	82	100	1.1
		A1B20-40 10 050	7	10	35	30	50	1.0
		A1B20-40 10 100	7	10	35	80	100	1.3
		A1B20-40 12 050	7	12	42	27.5	50	1.0
		A1B20-40 12 100	7	12	42	77.5	100	1.8
		A1B20-40 16 063	7	16	48	39	63	1.0
		A1B20-40 16 100	7	16	48	76	100	1.8
		A1B20-40 18 063	7	18	48	39	63	1.2
		A1B20-40 18 100	7	18	48	76	100	1.7
		A1B20-40 20 063	7	20	52	38	63	1.3
		A1B20-40 20 100	7	20	52	75	100	1.8
		A1B20-40 25 100	7	25	65	76	100	2.3
		A1B20-40 32 100	7	32	72	76	100	2.5
	50	A1B20-50 06 063	7	6	25	45	63	2.8
		A1B20-50 08 063	7	8	28	45	63	2.7
		A1B20-50 10 063	7	10	35	43	63	2.9
		A1B20-50 12 063	7	12	42	40.5	63	3.0
		A1B20-50 16 063	7	16	48	39	63	3.1
		A1B20-50 18 063	7	18	48	39	63	3.0
		A1B20-50 20 063	7	20	52	38	63	3.1
		A1B20-50 20 100	7	20	52	75	100	3.7
		A1B20-50 25 080	7	25	65	56	80	3.8
		A1B20-50 25 100	7	25	65	76	100	4.3
		A1B20-50 32 100	7	32	72	76	100	4.5
		A1B20-50 32 160	7	32	72	136	160	6.5
		A1B20-50 40 120	7	40	78	90	120	4.7

¹⁾ 7 = coolant through centre and through flange



G168



G48

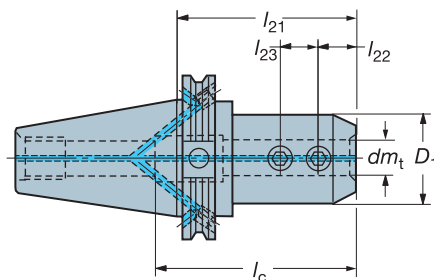
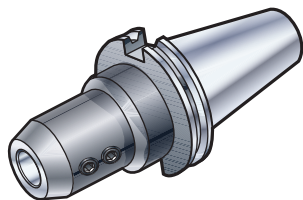


G2

End mill holder, Weldon type

Convertible to coolant through the flange

392.45520



l_1 = programming length

Metric bore with CAT V-flange

Machine design	Taper	Ordering code	Coolant ¹⁾	Dimensions, mm, inch															
				dm_1 mm	dm_1 in.	D_1 mm	D_1 in.	l_1 mm	l_1 in.	l_{21} mm	l_{21} in.	l_{22} mm	l_{22} in.	l_{23} mm	l_{23} in.	l_{24} mm	l_{24} in.	l_{25} mm	l_{25} in.
CAT V	40	392.45520-40 20	7	20	.787	44.45	1.750	57.15	2.250	88.9	3.500	25.4	1.000						1.5
		392.45520-40 25	7	25	.984	50.8	2.000	76.2	3.000	101.6	4.000	28.7	1.130	25.4	1.000				1.6
	50	392.45520-50 20	7	20	.787	44.45	1.750	57.15	2.250	95.25	3.750	25.4	1.000						3.5
		392.45520-50 25	7	25	.984	50.8	2.000	76.2	3.000	101.6	4.000	28.7	1.130	24.4	.961				3.8
		392.45520-50 32	7	32	1.260	63.5	2.500	66.04	2.600	101.6	4.000	28.7	1.130	25.4	1.000				4.1
		392.45520-50 40	7	40	1.575	69.85	2.750	82.55	3.250	101.6	4.000	28.7	1.130	25.4	1.000				4.1

¹⁾ 7 = coolant through centre and through flange



G165



G48

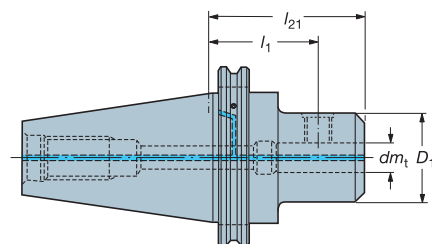
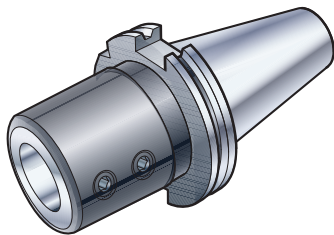


G2

End mill holder, Weldon type

Shank according to DIN 6535-HB

A2B20



l_1 = programming length

Metric bore

Machine design	Taper	Ordering code	Coolant ¹⁾	Dimensions, mm				
				dm_1	D_1	l_1	l_{21}	
MAS-BT 403	30	A2B20-30 06 050	1	6	24.5	32.5	50	0.5
		A2B20-30 08 050	1	8	27.5	32.5	50	0.5
		A2B20-30 10 050	1	10	34.5	30.5	50	0.5
		A2B20-30 12 052	1	12	41.5	30	52	0.6
		A2B20-30 16 063	1	16	47.5	39.5	63	0.8
		A2B20-30 20 063	1	20	51.5	38.5	63	0.8
	40	A2B20-40 06 050	7	6	25	32	50	0.9
		A2B20-40 06 100	7	6	25	82	100	1.1
		A2B20-40 08 050	7	8	28	32	50	1.0
		A2B20-40 08 100	7	8	28	82	100	1.2
		A2B20-40 10 063	7	10	35	43	63	1.1
		A2B20-40 10 100	7	10	35	80	100	1.4
		A2B20-40 12 063	7	12	42	40.5	63	1.2
		A2B20-40 12 100	7	12	42	77.5	100	1.9
		A2B20-40 16 063	7	16	48	39	63	1.2
		A2B20-40 16 100	7	16	48	76	100	1.9
		A2B20-40 20 063	7	20	52	38	63	1.4
		A2B20-40 20 100	7	20	52	75	100	1.9
		A2B20-40 25 090	7	25	59	66	90	2.4
		A2B20-40 25 160	7	25	59	136	160	3.9
		A2B20-40 32 100	7	32	72	76	100	2.6
	50	A2B20-50 06 063	7	6	25	45	63	3.6
		A2B20-50 08 063	7	8	28	45	63	3.5
		A2B20-50 10 070	7	10	35	50	70	3.7
		A2B20-50 12 080	7	12	42	57.5	80	3.8
		A2B20-50 16 080	7	16	48	56	80	3.9
		A2B20-50 20 080	7	20	52	55	80	3.9
		A2B20-50 20 100	7	20	52	75	100	4.1
		A2B20-50 25 100	7	25	65	76	100	4.6
		A2B20-50 25 160	7	25	65	136	160	6.5
		A2B20-50 32 105	7	32	72	81	105	5.3
		A2B20-50 32 160	7	32	72	136	160	7.3
		A2B20-50 40 115	7	40	78	85	115	5.5

1) 1 = coolant through centre, 7 = coolant through centre and through flange



G168



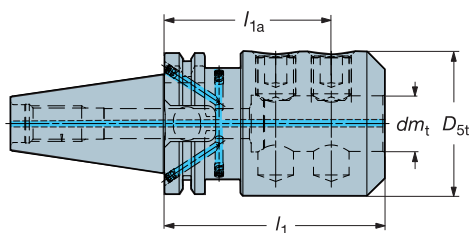
G48



G2

Combination adaptor for Weldon and drill shank (ISO 9766)

BIG-PLUS



BIG-PLUS SYSTEM - Licence BIG DAISHOWA

l_1 = programming length

Metric bore

Machine design	Taper	Ordering code	Coolant ¹⁾	Dimensions, mm				
				dm_t	D_{5t}	l_1	l_{1a}	
ISO7388.1	40	392.54023-4020070	7	20	52	70	100	1.5
		392.54023-4025100	7	25	65	100	115	2.4
		392.54023-4032105	7	32	72	105	125	2.7
		392.54023-4040115	7	40	90	115	145	4.1
MAS-BT 403	40	392.55523-4020065	7	20	52	65	100	1.5
		392.55523-4025090	7	25	65	90	115	2.3
		392.55523-4032100	7	32	72	100	125	2.8
		392.55523-4040110	1	40	90	110	140	4.2

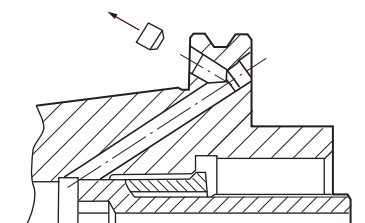
1) 1 = coolant through centre, 7 = coolant through centre and through flange

Inch bore

Machine design	Taper	Ordering code	Coolant ¹⁾	Dimensions, inch					
				dm_t	D_{5t}	l_1	l_{1a}	l_{1b}	
CAT V	40	A392.54523-4019065	7	.750	1.750	2.559	1.575	2.4	2.4
		A392.54523-4025100	7	1.000	2.248	3.937	2.992	4.4	4.4
		A392.54523-4031100	7	1.250	2.480	3.937	2.992	4.7	4.7

1) 7 = coolant through centre and through flange

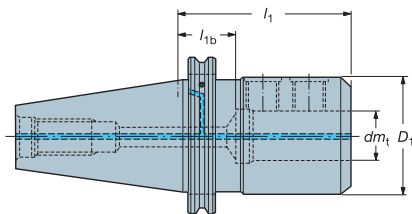
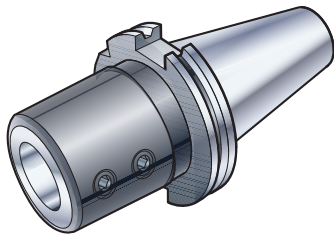
The new design is prepared for coolant also through the flange which means the coolant could be lead either through the centre or through the flange. The inlet channels in the flange are plugged with screws, which can easily be removed when coolant supply should be led through the flange. For technical information, see Metalcutting Technical guide.



Drill holder, ISO 9766 shank

Shank according to ISO 9766

A1B27 / A2B27 / AA3B27 / A227



l_1 = programming length

Metric bore

Machine design	Taper	Ordering code	Coolant ¹⁾	Dimensions, mm				
				dm_1	D_1	l_1	l_{1b}	
ISO7388.1	40	A1B27-40 16 080	7	16	36	80	27	1.2
		A1B27-40 20 080	7	20	40	80	25	1.2
		A1B27-40 25 085	7	25	45	85	25	1.4
		A1B27-40 32 090	7	32	52	90	26	1.5
	50	A1B27-50 16 080	7	16	36	80	27	3.0
		A1B27-50 20 080	7	20	40	80	25	3.1
		A1B27-50 25 085	7	25	45	85	25	3.3
		A1B27-50 32 090	7	32	52	90	26	3.4
		A1B27-50 40 090	7	40	76	90	16	3.9
		A1B27-50 50 100	7	50	76	100	16	3.7
MAS/BT403	40	A2B27-40 16 070	7	16	36	70	17	1.2
		A2B27-40 20 075	7	20	40	75	20	1.3
		A2B27-40 25 080	7	25	45	80	20	1.4
		A2B27-40 32 085	7	32	52	85	21	1.5
	50	A2B27-50 16 080	7	16	36	80	27	3.9
		A2B27-50 20 085	7	20	40	85	30	3.9
		A2B27-50 25 090	7	25	45	90	30	4.0
		A2B27-50 32 095	7	32	52	95	31	4.2
		A2B27-50 40 105	7	40	76	105	31	4.5
		A2B27-50 50 113	7	50	76	113	29	5.0

1) 1 = coolant through centre, 7 = coolant through centre and through flange

Inch bore

Machine design	Taper	Ordering code	Coolant ¹⁾	Dimensions, inch				
				dm_1	D_1	l_1	l_{1b}	
CAT V	40	AA3B27-40 19 080	7	.750	1.575	3.150	1.024	2.9
		AA3B27-40 25 085	7	1.000	1.772	3.346	.965	3.1
		AA3B27-40 32 090	7	1.250	2.047	3.543	1.024	3.3
	50	AA3B27-50 19 080	7	.750	1.575	3.150	1.024	6.6
		AA3B27-50 25 085	7	1.000	1.772	3.346	.965	6.8
		AA3B27-50 32 090	7	1.250	2.047	3.543	1.024	7.3
		AA3B27-50 38 090	7	1.500	2.559	3.543	.846	8.2
		AA3B27-50 51 110	7	2.000	2.953	4.331	1.122	9.3

1) 7 = coolant through centre and through flange



G169

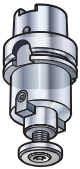
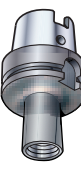
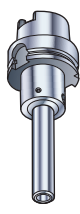
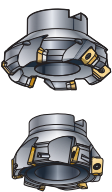
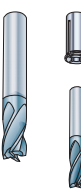
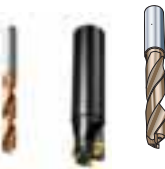
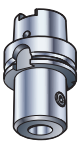
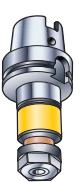
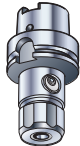
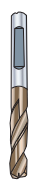
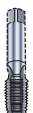
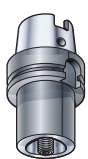
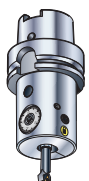
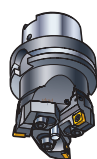


G48



G2

HSK solid holding tools

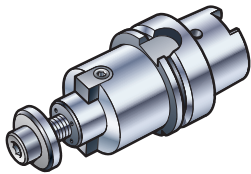
Face mill holder	Dampened milling adaptor	Hydro-Grip high precision chuck	Exchangeable head system EH for CoroMill® 316	Hydro-Grip high precision chuck	Hydro-Grip high precision chuck	ER collet chuck
		Face mill holder		Slender/ Heavy Duty	Pencil type	DIN 6499
						
392.41005 A392.41005	392.41005CD A392.41005CD	41005CG	392.410EH	392.410CGA/ 392.410CGD	392.410CGB	392.41014
Page G71	G74	G95	G103	G93	G94	G75
						
End mill holder, Weldon type	End mill holder, Whistle Notch	Adjustable drill holder	Holder for drills According to ISO 9766	SynchroFlex® ER tapping chuck	Floating rubber collet chuck	Quick change tapping chuck
						
392.41020 A392.41020	392.14021	392.410227	392.41027	392.41062 392.41063	392.41060B	392.41060 392.41061
Page G76	G78	E130	G79	G108	G117	G112
						
Basic holder with Coromant Capto®	Blank	Integrated tools for boring, see chapter F			HSK adaptors for CoroMill® modular cutting tools, see page G121	
						
Cx-390.410/612/390.419	392.41050					
Page G16	G80					

E

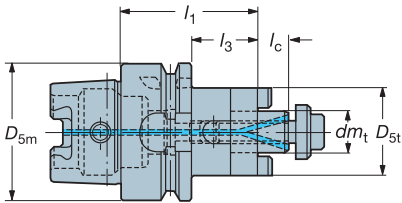
Face mill holder

392.41005C

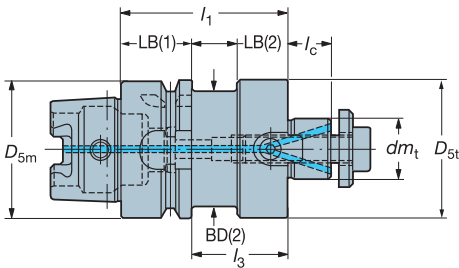
HSK form A/C



Design 1



Design 2



Note: Hole for data carrier is not standard.

l_1 = programming length

F

Metric pilot

		Coolant ¹⁾			Dimensions, mm													
HSK size	Ordering code	Entry	Exit	Design	D_{5m}	d_m	D_{5t}	l_c	D_{hc}	l_1	l_2	D_{th}	LB(2)	LB(1)	BD(2)	 kg	Balanced by design	
40	392.41005C-4022050	1	4	2	40	22	48	16		50						0.6	⊙	
50	392.41005C-5022060	1	4	2	50	22	48	16		60						0.9	⊙	
63	392.41005C6316050	1	4	1	63	16	32	11		50	24					0.8	⊙	
	392.41005C6322050	1	4	2	63	22	50	16		50	24					1.1	⊙	
	392.41005C6327060	1	4	2	63	27	60	18		60	34		18	26	53	1.4	⊙	
	392.41005C6332060	1	4	2	63	32	78	20		60			18	26	53	1.7	⊙	
	392.41005C6340060	1	4	2	63	40	87	23		60			18	26	53	2.1	⊙	
100	392.41005C10022100	1	4	2	100	22	50	16		100	71					3.1	⊙	
	392.41005C10027100	1	4	2	100	27	60	18		100	71					3.6	⊙	
	392.41005C10032100	1	4	2	100	32	78	20		100	71					4.8	⊙	
	392.41005C10040100	1	4	2	100	40	87	23		100	71					5.5	⊙	
125	392.41005C12532100	1	4	2	125	32	78	20		100	71					6.0	⊙	
	392.41005C12540100	1	4	2	125	40	87	23		100	71					6.8	⊙	

¹⁾ 0 = no coolant, 1 = coolant through centre, 4 = coolant through arbor

Coolant tube must be ordered separately, see page G80.

For holders with coolant through centre, see page G72

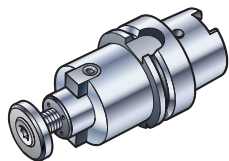
G



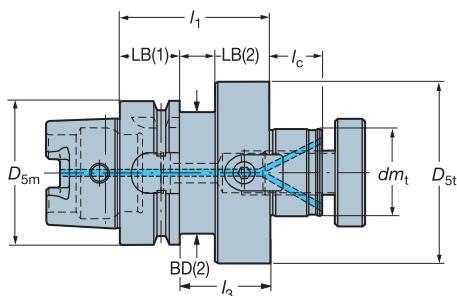
Face mill holder

A392.41005C

HSK form A/C



Design 2



Note: Hole for data carrier is not standard.

 l_1 = programming length

Inch pilot

HSK size	Ordering code	Coolant ¹⁾		Design	Dimensions, inch										Balanced by design
		Entry	Exit		D_{5m}	dm_t	D_{5t}	l_c	l_1	l_3	LB(2)	LB(1)	BD(2)		
63	A392.41005C6319050	1	4	2	2.480	.750	1.693	.709	1.968	.945				2.1	⊙
	A392.41005C6325060	1	4	2	2.480	1.000	1.969	.709	2.362	1.339				2.8	⊙
	A392.41005C6338065	1	4	2	2.480	1.500	3.150	.906	2.559		.630	1.024	2.087	4.6	⊙
100	A392.41005C10019100	1	4	2	3.937	.750	1.693	.709	3.937	2.795				6.2	⊙
	A392.41005C10025100	1	4	2	3.937	1.000	1.969	.709	3.937	2.795				6.9	⊙
	A392.41005C10038100	1	4	2	3.937	1.500	3.150	.906	3.937	2.795				11.1	⊙
125	A392.41005C12525100	1	4	2	4.921	1.000	1.969	.709	3.937	2.795				9.7	⊙
	A392.41005C12538100	1	4	2	4.921	1.500	3.150	.906	3.937	2.795				14.0	⊙

¹⁾ 0 = no coolant, 1 = coolant through centre, 4 = coolant through arbor

Coolant tube must be ordered separately, see page G80.

For holders with coolant through centre, see page G73



G172



G69

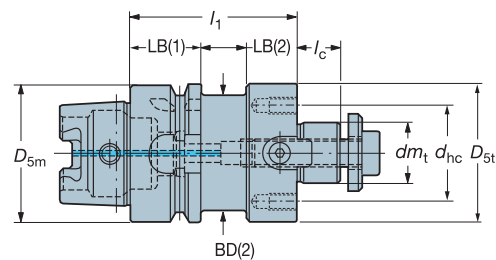
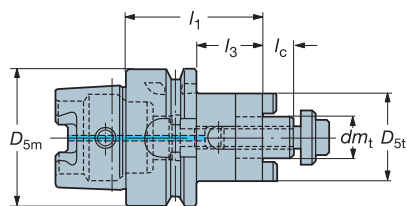
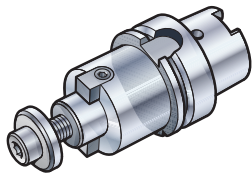


G2

Face mill holder

392.41005

HSK form A/C



Note: Hole for data carrier is not standard.

 l_1 = programming length

Metric version

HSK size	Ordering code	Coolant ¹⁾	Dimensions, mm											Balanced by design
			d_m	D_{5m}	D_{5t}	l_c	l_1	l_3	d_{hc}	LB(1)	LB(2)	BD(2)		
63	392.41005-63 16 050	1	16	63	32	11	50	24					1.0	⊙
	392.41005-63 22 050B	1	22	63	50	16	50	24					1.1	⊙
	392.41005-63 27 060B	1	27	63	50	18	60	34					1.4	⊙
	392.41005-63 32 060B	1	32	63	63	20	60			26	16	53	1.5	⊙
	392.41005-63 40 060B	1	40	63	80	23	60			26	16	53	2.0	⊙
100	392.41005-100 22 050A	1	22	100	50	16	50	21					2.4	⊙
	392.41005-10022100	1	22	100	50	16	100	71					3.2	⊙
	392.41005-100 27 050A	1	27	100	50	18	50	21					2.4	⊙
	392.41005-10027100	1	27	100	50	18	100	71					3.2	⊙
	392.41005-100 32 050A	1	32	100	63	20	50	21					2.8	⊙
	392.41005-10032100	1	32	100	63	20	100	71					4.0	⊙
	392.41005-100 40 060A	1	40	100	80	23	60	31					3.6	⊙
	392.41005-10040100	1	40	100	80	23	100	71					3.6	⊙
	392.41005-10060075 ²⁾	0	60	100	130	29	75		101.6	29	17	84	6.3	⊙
	392.41005-12560085 ²⁾	0	60	125	130	29	85		101.6	29	17	110.5	9.2	⊙
125	392.41005-12560085 ²⁾	0	60	125	130	29	85		101.6	29	17	110.5	9.2	⊙

¹⁾ 0 = no coolant, 1 = coolant through centre²⁾ For flange mounting screw, see page G171

Coolant tube must be ordered separately, see page G80.

For holders with coolant through arbor, see page G70



G171



G69

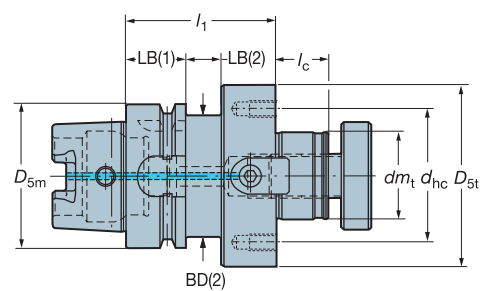
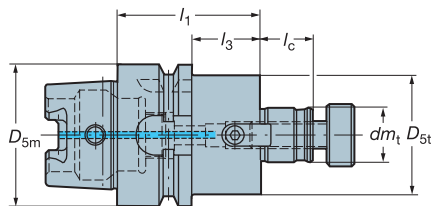
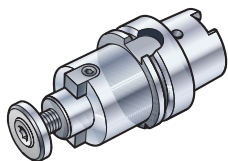


G2

Face mill holder

A392.41005

HSK form A/C



Note: Hole for data carrier is not standard.

l_1 = programming length

Inch pilot

HSK size	Ordering code	Coolant ¹⁾	Dimensions, inch											Balanced by design
			dm_t	D_{5m}	D_{st}	l_c	l_1	l_3	d_{hc}	LB(1)	LB(2)	BD(2)		
63	A392.41005-63 19 050B	1	.750	2.480	1.693	.709	1.969	.945					2.4	⊙
	A392.41005-63 25 060B	1	1.000	2.480	1.969	.709	2.362	1.339					2.9	⊙
	A392.41005-63 38 065B	1	1.500	2.480	3.150	.906	2.559			1.024	0.630	2.087	4.9	⊙
100	A392.41005-100 19 050A	1	.750	3.937	1.693	.709	1.969	.827					4.9	⊙
	A392.41005-100 25 050A	1	1.000	3.937	1.969	.709	1.969	.827					5.1	⊙
	A392.41005-100 38 060A	1	1.500	3.937	3.150	.906	2.362	1.220					7.9	⊙
125	A392.41005-10063075 ²⁾	0	2.500	3.937	5.118	1.142	2.953		4	1.142	.669	3.445	14.2	⊙
	A392.41005-12563085 ²⁾	0	2.500	4.921	5.118	1.142	3.346		4	1.142	.669	4.350	20.3	⊙

¹⁾ 0 = no coolant, 1 = coolant through centre

²⁾ For flange mounting screw, see page G171

Coolant tube must be ordered separately, see page G80.

For holders with coolant through arbor, see page G71



G171



G69



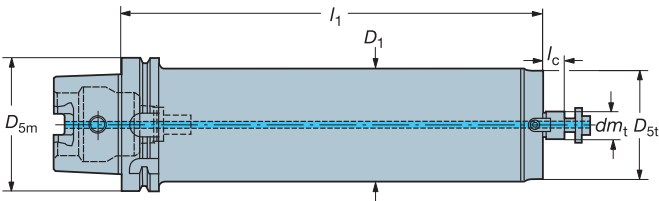
G2

E

Dampened milling adaptor

With coolant through arbor

392.41005CD
A392.41005CD
HSK form A/C



Silent  Tools®

l_1 = programming length

F

Metric pilot

HSK size	Ordering code	Coolant ¹⁾		Dimensions, mm							
		Entry	Exit	d_{m_t}	D_{5m}	D_1	D_{5t}	l_c	l_1	n_{max}	 kg
63	392.41005CD6316160	1	4	16	63	40	40	11	160	10000	2.1
	392.41005CD6316230	1	4	16	63	40	40	11	230	7000	2.7
	392.41005CD6322210	1	4	22	63	50	48	16	210	10000	4.2
	392.41005CD6322300	1	4	22	63	50	48	16	300	7000	5.4
100	392.41005CD10022230	1	4	22	100	63	48	16	230	10000	7.4
	392.41005CD10022340	1	4	22	100	63	48	16	340	7000	10.8
	392.41005CD10027230	1	4	27	100	63	55	18	230	10000	7.5
	392.41005CD10027340	1	4	27	100	63	55	18	340	7000	10.9

¹⁾ 1 = coolant through centre, 4 = coolant through arbor

G

Inch pilot

HSK size	Ordering code	Coolant ¹⁾		Dimensions, inch						
		Entry	Exit	d_{m1}	D_{5m}	D_{5t}	l_c	l_1	n_{max}	
63	A392.41005CD6319210	1	4	.750	2.480	1.575	.710	8.268	10000	9.3
	A392.41005CD6319300	1	4	.750	2.480	1.575	.710	11.811	7000	11.9
100	A392.4105CD10025230	1	4	1.000	3.937	2.756	.710	9.055	10000	16.5
	A392.4105CD10025340	1	4	1.000	3.937	2.756	.710	13.386	7000	24.0

¹⁾ 1 = coolant through centre, 4 = coolant through arbor

Coolant tube must be ordered separately, see page G80.

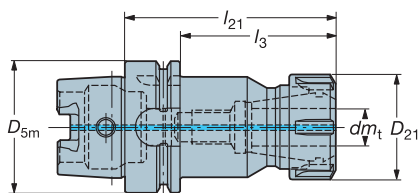
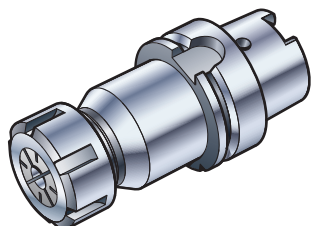


ER collet chuck

For DIN 6499 collets

392.41014

HSK form A/C



Accessories

Not delivered with the tool, must be ordered separately.

Open style	Metallic sealed style
393.14	393.15
	

Note: Hole for data carrier is not standard.

See page	G138	G139
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Machine design	Taper	Ordering code	Coolant ¹⁾	Dimensions, mm							Collet size
				D _{5m}	dm _k min	dm _k max	D ₂₁	l ₃	l ₂₁		
HSK	40	392.41014-4025062	1	40	1	16	42		62	0.4	ER 25
				1.575	.039	.630	1.654		2.441		
				50	2	20	50		72	0.7	ER 32
	50	392.41014-5032072	1								
				1.968	.079	.787	1.968		2.835		
				63	1.5	16	42	74	100	1.2	ER 25
	63	392.41014-63 25 100	1								
				2.480	.059	.630	1.654	2.913	3.937		
		392.41014-63 32 100B	1								
	100			63	2	20	50	74	100	1.2	ER 32
				2.480	.079	.787	1.968	2.913	3.937		
		392.41014-63 40 120B	1								
HSK	63			63	3	26	63	94	120	1.8	ER 40
				2.480	.118	1.024	2.480	3.701	4.724		
				100	2	20	50	71	100	2.6	ER 32
	100	392.41014-100 32 100A	1								
				3.937	.079	.787	1.968	2.795	3.937		
		392.41014-100 40 120A	1								
	100			100	3	26	63	91	120	3.5	ER 40
				3.937	.118	1.024	2.480	3.583	4.724		
		392.41014-100 50 130A	1								
	100			100	6	34	78	101	130	4.5	ER 50
				3.937	.236	1.339	3.071	3.976	5.118		

¹⁾ 1 = coolant through centre

Coolant tube must be ordered separately, see page G80.



G174



G69



G2

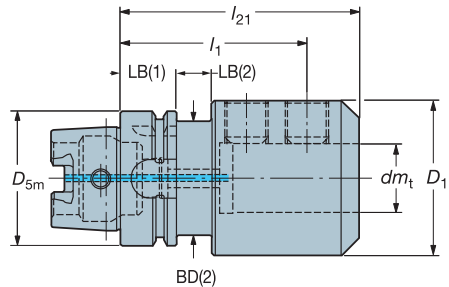
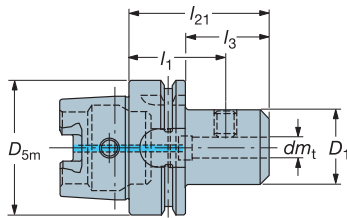
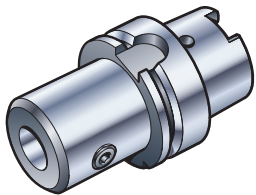
E

End mill holder, Weldon type

Shank according to DIN 6535-HB

392.41020

HSK form A/C



Note: Hole for data carrier is not standard.

l_1 = programming length

F

Metric bore

HSK size	Ordering code	Coolant ¹⁾	Dimensions, mm										Balanced by design
			dm_t	D_{5m}	D_1	l_1	l_2	l_{21}	LB(1)	LB(2)	BD(2)		
63	392.41020-63 08 065B	1	8	63	28	47	39	65				0.9	⊙
	392.41020-63 10 065B	1	10	63	35	45	39	65				1.0	⊙
	392.41020-63 12 080B	1	12	63	42	57.5	54	80				1.2	⊙
	392.41020-63 16 080B	1	16	63	48	56	54	80				1.4	⊙
	392.41020-63 20 080B	1	20	63	52	55	54	80				1.5	⊙
	392.41020-63 25 110B	1	25	63	65	86		110	26	16	53	2.6	⊙
100	392.41020-63 32 110B	1	32	63	72	86		110	26	16	53	2.8	⊙
	392.41020-100 12 080A	1	12	100	42	57.5	51	80				2.8	⊙
	392.41020-100 16 100A	1	16	100	48	76	71	100				3.0	⊙
	392.41020-100 20 100A	1	20	100	52	75	71	100				3.2	⊙
	392.41020-100 25 100A	1	25	100	65	76	71	100				3.7	⊙
	392.41020-100 32 100A	1	32	100	72	76	71	100				4.0	⊙
	392.41020-100 40 120A	1	40	100	90	90		120	29	16	87.5	5.8	⊙

¹⁾ 1 = coolant through centre

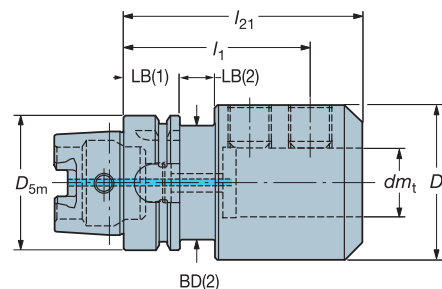
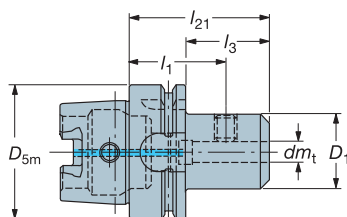
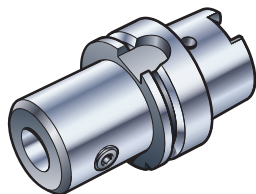
Coolant tube must be ordered separately, see page G80.



End mill holder, Weldon type

A392.41020

HSK form A/C



Note: Hole for data carrier is not standard.

 l_1 = programming length

Inch bore

HSK size	Ordering code	Coolant ¹⁾	Dimensions, inch										Balanced by design
			dm_t	D_{5m}	D_1	l_1	l_2	l_3	LB(1)	LB(2)	BD(2)		
63	A392.41020-63 19 080B	1	.750	2.480	1.750	2.165	2.126	3.150				6.6	⊙
	A392.41020-63 25 105B	1	1.000	2.480	2.250	3.189	3.110	4.134	1.024	0.630	2.087	9.7	⊙
	A392.41020-63 31 105B	1	1.250	2.480	2.480	3.189	3.110	4.134	1.024	0.630	2.087	10.1	⊙
100	A392.41020-100 19 090A	1	.750	3.937	1.750	2.598	2.402	3.543				12.6	⊙
	A392.41020-100 25 100A	1	1.000	3.937	2.250	2.992	2.795	3.937				15.2	⊙
	A392.41020-100 31 100A	1	1.250	3.937	2.480	2.992	2.795	3.937				16.1	⊙
	A392.41020-100 38 110A	1	1.500	3.937	2.756	3.150	3.189	4.331				18.5	⊙
	A392.41020-100 50 130A	1	2.000	3.937	3.661	3.976	3.976	5.118	1.142	0.630	3.445	12.8	⊙

¹⁾ 1 = coolant through centre

Coolant tube must be ordered separately, see page G80.



G174



G69

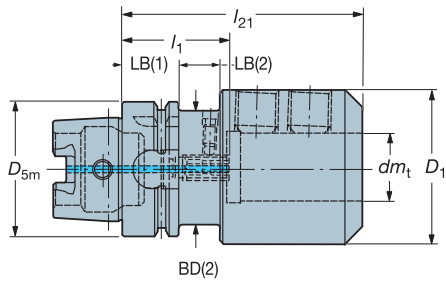
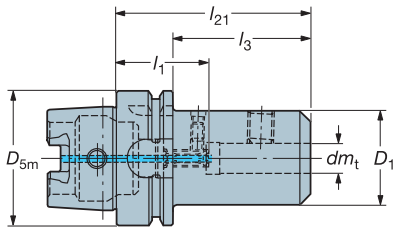
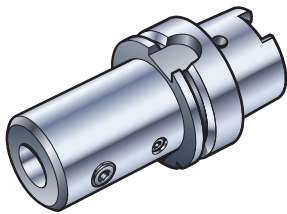


G2

Whistle Notch holder

Shank according to DIN 6535-HE
Short design for carbide drills

Adjustable presetting length
392.41021
HSK form A/C



Note: Hole for data carrier is not standard. l_1 = programming length

Metric bore

HSK size	Ordering code	Coolant ¹⁾	Dimensions, mm										
			d_{m_t}	D_1	D_{5m}	l_1 min	max	l_3	l_{21}	LB(1)	LB(2)	BD(2)	
63	392.41021-63 06 080B	1	6	25	63	42	52	54	80				1
	392.41021-63 08 080B	1	8	28	63	42	52	54	80				1
	392.41021-63 10 080B	1	10	35	63	38	48	54	80				1.1
	392.41021-63 12 090B	1	12	42	63	43	53	64	90				1.3
	392.41021-63 16 100B	1	16	48	63	50	60	74	100				1.6
	392.41021-63 20 100B	1	20	52	63	48	58	74	100				1.8
	392.41021-63 25 110B	1	25	65	63	52	62		110	26	24	53	2.6
	392.41021-63 32 110B	1	32	72	63	49	59		110	26	19	53	2.8
100	392.41021-100 10 090A	1	10	35	100	48	58	61	90				2.5
	392.41021-100 12 100A	1	12	42	100	53	63	71	100				2.7
	392.41021-100 16 100A	1	16	48	100	50	60	71	100				2.9
	392.41021-100 20 110A	1	20	52	100	58	68	81	110				3.3
	392.41021-100 25 120A	1	25	65	100	62	72	91	120				4.2
	392.41021-100 32 120A	1	32	72	100	59	69	91	120				4.5

1) 1 = coolant through centre

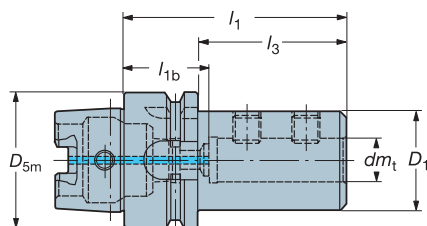
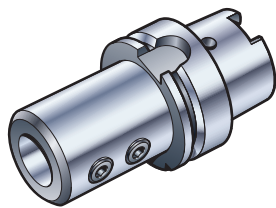
Coolant tube must be ordered separately, see page G80.



Drill holder, ISO 9766 shank

392.41027

HSK form A/C



Note: Hole for data carrier is not standard.

 l_1 = programming length

Metric bore

HSK size	Ordering code	Coolant ³⁾	Dimensions, mm						
			dm_t	D_{5m}	D_1	$l_1^{1)}$	$l_{1b}^{2)}$	l_3	$\frac{kg}{kg}$
63	392.41027-63 16 080B	1	16	63	36	80	30.5	54	1.1
	392.41027-63 20 080B	1	20	63	40	80	28.5	54	1.1
	392.41027-63 25 090B	1	25	63	45	90	32.5	64	1.2
	392.41027-63 32 090B	1	32	63	52	90	28.5	64	1.3
100	392.41027-100 16 090A	1	16	100	36	90	40.5	61	2.6
	392.41027-100 20 090A	1	20	100	40	90	38.5	61	2.6
	392.41027-100 25 100A	1	25	100	45	100	42.5	71	2.7
	392.41027-100 32 100A	1	32	100	52	100	38.5	71	2.9
	392.41027-100 40 110A	1	40	100	65	110	38.5	81	3.5
	392.41027-100 50 120	1	50	100	75	120	38.5	91	3.8

¹⁾ Programming length for Coromant U drills and CoroDrill® 880.

²⁾ Programming length for Coromant Delta drills.

³⁾ 1 = coolant through centre

Coolant tube must be ordered separately, see page G80.



G176



G69

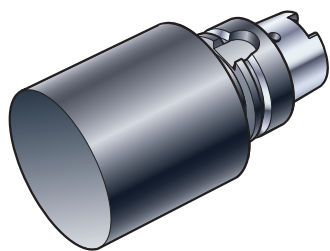


G2

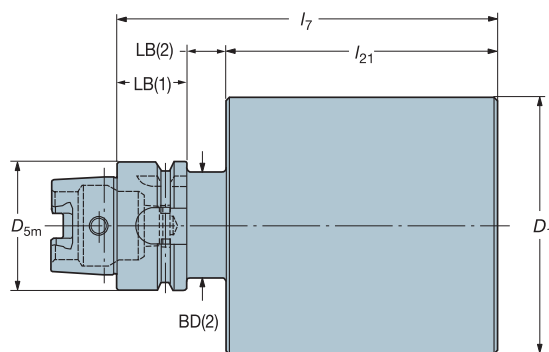
Blanks

392.41050

HSK form A/C



Material: 42 CrMo4
Tensile strength: 800N/mm²
HB ≅ 235



Coolant ¹⁾	HSK size	Ordering code	Dimensions, mm, inch														
			D ₁ mm	D ₁ in.	D _{5m} mm	D _{5m} in.	l ₇ mm	l ₇ in.	l ₂₁ mm	l ₂₁ in.	LB(1) mm	LB(1) in.	LB(2) mm	LB(2) in.	BD(2) mm	BD(2) in.	
0	63	392.41050-63 64 250A	64	2.520	63	2.480	250	9.842	208	8.189	26	1.024	16	.630	53	2.087	6.3
0		392.41050-63 130 150A	130	5.118	63	2.480	150	5.906	108	4.252	26	1.024	16	.630	53	2.087	12.2
0	100	392.41050-100104250A	104	4.094	100	3.937	250	9.842	205	8.071	29	1.142	16	.630	87.5	3.445	16.4
0		392.41050-100 145 200A	145	5.709	100	3.937	200	7.874	155	6.102	29	1.142	16	.630	87.5	3.445	22.4

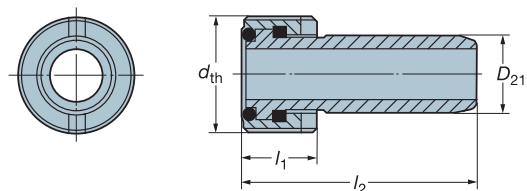
¹⁾ 0 = no coolant

Note: These HSK blanks are equipped with a thread inside the HSK coupling to allow for connection of a coolant tube.

If localized hardening is required, induction type hardening is suggested.

Coolant tube

For solid HSK assortment



HSK size	Ordering code	Dimensions, mm, inch				
		D ₂₁	d _{th}	l ₁	l ₂	⚖ kg
40	5692 022-02	8	M12x1	7.5	29.5	0.01
		.315	M12x1	.295	1.161	
50	5692 022-03	10	M16x1	9.5	32.8	0.02
		.394	M16x1	.374	1.291	
63	5692 022-04	12	M18x1	11.5	36.5	0.03
		.472	M18x1	.453	1.437	
100	5692 022-06	16	M24x1.5	15.5	44.5	0.05
		.630	M24x1.5	.610	1.752	
125	5692 022-07	18	M30x1.5	17.5	48	0.08
		.709	M30x1.5	.689	1.890	

Key for coolant tube must be ordered separately, see spare parts on page G176



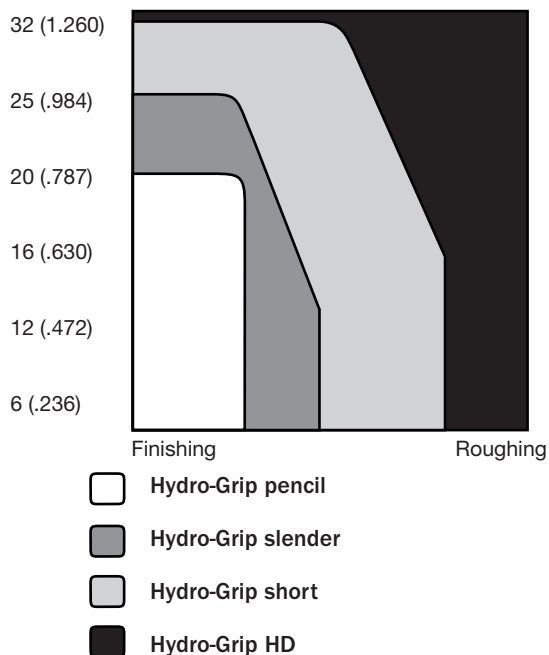
Hydro-Grip® *

High precision chuck

Stable and secure machining for every need

The secret with Hydro-Grip is the precise symmetrical clamping. This makes it possible to get very high run-out accuracy. When you have good run-out all teeth of your tool is cutting. When all teeth are cutting you get better surface quality, prevent vibrations and prolong tool life. All together you save money.

Bore diameter, mm (inch)



Low run-out

Prolong tool life
Improve surface quality
Prevent vibrations

Highest clamping force on market

Improved cutting data
Higher productivity
Secure machining

Easy to clamp

Time saving in set up
User friendly for operator
Correct clamping independent of use.

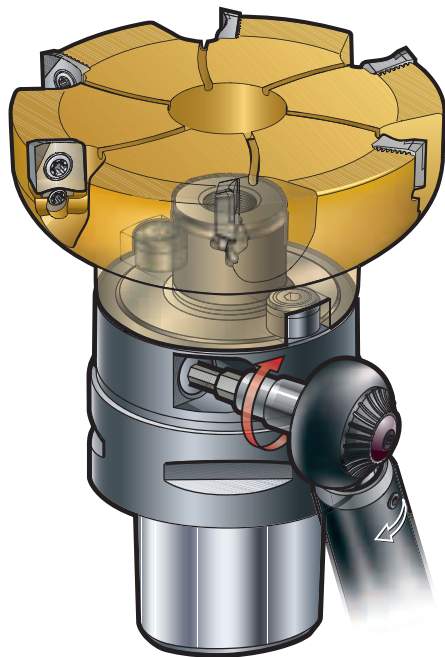
Individual balanced products

Enables high speed machining
Increased productivity

* Hydro-Grip is a registered trademark of ETP Transmission AB

Hydro-Grip® * Face mill holder

Precise concentric location to eliminate radial run out



When machining with high performing Face mills it is very important to also use a high performing tool holder. Otherwise you will not get any advantages compared to a normal face mill. The hydraulic expanding arbor provides precise concentric location to eliminate radial run out. Balanced to g 2.5 at 23 000 rpm for the smallest size. It is your best choice for high speed machining without vibration.

Hydro-Grip® Face mill holder is the perfect partner to Coromill® Centuty in finishing milling, where minimal radial run out ensures an even tooth load and wear pattern. This, in turn, secures an improved tool life and surface finish in high demanding, shoulder face milling operations

Low run-out

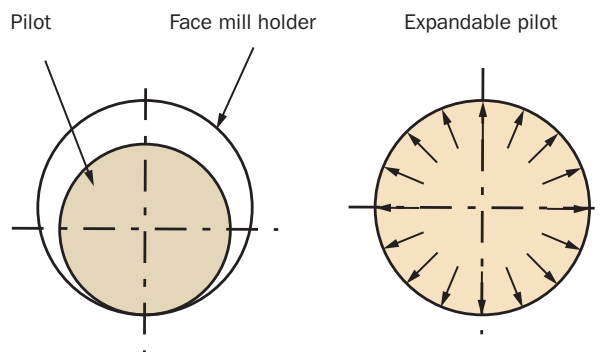
Prolong tool life
Improve surface quality
Prevent vibrations

Easy to clamp

Time saving in set up
User friendly for operator
Correct clamping independent of use.

Individual balanced products

Enables high speed machining
Increased productivity



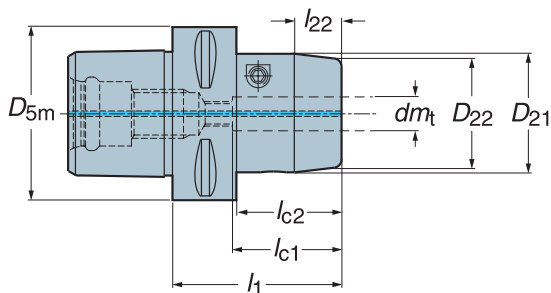
Conventional competitor tool holder

* Hydro-Grip is a registered trademark of ETP Transmission AB

Hydro-Grip HD

High precision chuck adaptor

Coromant Capto®
391.CGD



Accessories

Not delivered with the 393.CG tool, must be ordered 393.CGS separately.

Adjustment screw
5512 100-03



Page G135

l_1 = programming length

Coupling size	Ordering code	Coolant ¹⁾	Dimensions, mm, inch									BLQ ²⁾	NBLQ ³⁾	Collet size
			D_{5m}	dm_t	D_{21}	D_{22}	l_1	l_{22}	l_{c1}	l_{c2}				
C5	C5-391.CGD-20 079	1	50	20	63	59	79	17	52		1.6	2.5	25000	20
			1.968	.787	2.480	2.323	3.110	.669	2.047					
C6	C6-391.CGD-20 073	1	63	20	63	59	73	17	52		1.8	2.5	25000	20
			2.480	.787	2.480	2.323	2.874	.669	2.047					
	C6-391.CGD-25 080	1	63	25	74	70	80	17	56		2.4	2.5	25000	25
			2.480	.984	2.913	2.756	3.150	.669	2.205					
C8	C6-391.CGD-32 086	1	63	32	80	76	86	17	60		2.8	2.5	25000	32
			2.480	1.260	3.150	2.992	3.386	.669	2.362					
	C8-391.CGD-20 079	1	80	20	63	59	79	17	52	49	2.8	2.5	14000	20
			3.150	.787	2.480	2.323	3.110	.669	2.047	1.929				
C10	C8-391.CGD-25 083	1	80	25	74	70	83	17	56	53	3.3	2.5	14000	25
			3.150	.984	2.913	2.756	3.268	.669	2.205	2.087				
	C8-391.CGD-32 087	1	80	32	80	76	87	17	60		3.5	2.5	14000	32
			3.150	1.260	3.150	2.992	3.425	.669	2.362					
C10	C10-391.CGD-20 085	1	100	20	63	59	85	17	52	49	4.5	2.5	14000	20
			3.937	.787	2.480	2.323	3.346	.669	2.047	1.929				
	C10-391.CGD-25 089	1	100	25	74	70	89	17	56	53	5.0	2.5	14000	25
			3.937	.984	2.913	2.756	3.504	.669	2.205	2.087				
C10	C10-391.CGD-32 093	1	100	32	80	76	93	17	60	57	5.3	2.5	14000	32
			3.937	1.260	3.150	2.992	3.661	.669	2.362	2.244				

¹⁾ 1 = coolant through centre

²⁾ Balance quality code.

³⁾ Rotational speed at balance quality.

Adjustment screws must be ordered separately, see page G96



G179



G6

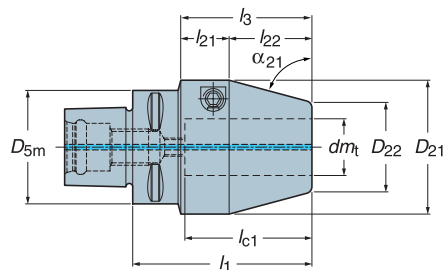
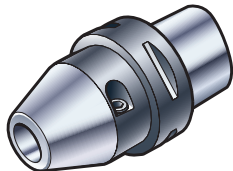


G2

Hydro-Grip short

High precision chuck adaptor

Short version
Coromant Capto®
391.CGA



Accessories

Not delivered with the 393.CG
tool, must be ordered 393.CGS
separately.

Adjustment screw
5512100-xx



Page G135

l_1 = programming length

Coromant Capto® size	Ordering code	Coolant ¹⁾	Dimensions, mm, inch										BLQ ²⁾	NBLQ ³⁾	Collet size
			dm_1	D_{21}	D_{22}	l_1	l_3	l_{21}	l_{22}	l_{61}	α_{21}				
C4	C4-391.CGA-12 062A	1	12	43.5	19.8	62		21.0	20.5	40	60	0.6	2.5	25000	12
			.472	1.713	.780	2.441		.827	.807	1.575					
	C4-391.CGA-12 100	1	12	43.5	19.8	100		21.0	20.5	40	60	1.0	2.5	25000	12
			.472	1.713	.780	3.937		.827	.807	1.575					
C5	C4-391.CGA-20 075	1	20	52	28.3	75		20.9	32.5	52	70	0.8	2.5	25000	20
			.787	2.047	1.114	2.953		.823	1.280	2.047					
	C5-391.CGA-12 062	1	12	43.5	19.8	62	42	21.5	20.5	40	60	0.8	2.5	25000	12
			.472	1.713	.780	2.441	1.654	.846	.807	1.575					
C6	C5-391.CGA-20 074A	1	20	52	28.3	74		21.2	32.5	52	70	1.0	2.5	25000	20
			.787	2.047	1.114	2.913		.835	1.280	2.047					
	C5-391.CGA-20 125	1	20	52	28.3	125		21.2	32.5	52	70	1.8	2.5	25000	20
			.787	2.047	1.114	4.921		.835	1.280	2.047					
C8	C5-391.CGA-25 079	1	25	59	39.4	79		21.3	36.5	56	75	1.3	2.5	25000	25
			.984	2.323	1.551	3.110		.839	1.437	2.205					
	C6-391.CGA-12 064	1	12	43.5	19.8	64	42	21.5	20.5	40	60	1.1	2.5	25000	12
			.472	1.713	.780	2.520	1.654	.846	.807	1.575					
G	C6-391.CGA-20 076	1	20	52	28.3	76	54	21.5	32.5	52	70	1.4	2.5	25000	20
			.787	2.047	1.114	2.992	2.126	.846	1.280	2.047					
	C6-391.CGA-20 150	1	20	52	28.3	150	128	95.5	32.5	52	70	2.6	2.5	25000	20
			.787	2.047	1.114	5.906	5.039	3.760	1.280	2.047					
G	C6-391.CGA-25 080	1	25	59	39.4	80	58	21.5	36.5	56	75	1.6	2.5	25000	25
			.984	2.323	1.551	3.150	2.284	.846	1.437	2.205					
	C6-391.CGA-32 084A	1	32	69.5	47.8	84		20.6	40.5	60	75	1.9	2.5	25000	32
			1.260	2.736	1.882	3.307		.811	1.594	2.362					
G	C8-391.CGA-20 079	1	20	52	28.3	79	49	16.5	32.5	52	70	2.3	2.5	14000	20
			.787	2.047	1.114	3.110	1.929	.650	1.280	2.047					
	C8-391.CGA-25 083	1	25	59	39.4	83	53	16.5	36.5	56	75	2.5	2.5	14000	25
			.984	2.323	1.551	3.268	2.087	.650	1.437	2.205					
G	C8-391.CGA-32 087	1	32	69.5	47.8	87	57	16.5	40.5	60	75	2.8	2.5	14000	32
			1.260	2.736	1.882	3.425	2.244	.650	1.594	2.362					

¹⁾ 1 = coolant through centre

²⁾ Balance quality code.

³⁾ Rotational speed at balance quality.



G177



G6

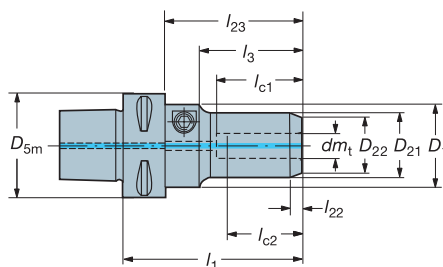
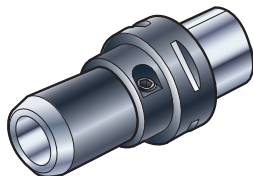


G2

Hydro-Grip slender

High precision chuck adaptor

Slender version
Coromant Capto®
391.CGC



Accessories

Not delivered with the 393.CG
tool, must be ordered 393.CGS
separately.

Adjustment screw
5512100-xx



Page G135

l_1 = programming length

			Dimensions, mm, inch															
Coupling size	Ordering code	Coolant ¹⁾	D_{5m}	dm_t	D_1	D_{21}	D_{22}	l_1	l_3	l_{22}	l_{23}	l_{c1}	$l_{c2}^{4)}$	$\frac{R}{K}$	BLQ ²⁾	NBLQ ³⁾	Collet size	
C4	C4-391.CGC-12 081	1	40	12	40	32	28	81	43	10		40	35	0.7	2.5	25000	12	
			1.575	.472	1.575	1.260	1.102	3.189	1.693	.394		1.575	1.378					
	C4-391.CGC-12 100	1	40	12	40	32	28	100	43	10		40	35	0.9	2.5	25000	12	
			1.575	.472	1.575	1.260	1.102	3.937	1.693	.394		1.575	1.378					
C5	C4-391.CGC-20 101	1	40	20	50	40	36	101	55	10		52	46	1.0	2.5	25000	20	
			1.575	.787	1.968	1.575	1.417	3.976	2.165	.394		2.047	1.811					
	C5-391.CGC-12 085	1	50	12	40	32	28	85	43	10	20	40	35	0.9	2.5	25000	12	
			1.968	.472	1.575	1.260	1.102	3.346	1.693	.394	.787	1.575	1.378					
C6	C5-391.CGC-20 093	1	50	20	50	40	36	93	55	10		52	46	1.1	2.5	25000	20	
			1.968	.787	1.968	1.575	1.417	3.661	2.165	.394		2.047	1.811					
	C5-391.CGC-25 097	1	50	25	50	45	41	97	59	10		56	50	1.2	2.5	25000	25	
			1.968	.984	1.968	1.772	1.614	3.819	2.323	.394		2.205	1.968					
C6	C6-391.CGC-12 087	1	63	12	40	32	28	87	43	10	65	40	35	1.2	2.5	25000	12	
			2.480	.472	1.575	1.260	1.102	3.425	1.693	.394	2.559	1.575	1.378					
	C6-391.CGC-20 097	1	63	20	50	40	36	97	55	10	75	52	46	1.5	2.5	25000	20	
			2.480	.787	1.968	1.575	1.417	3.819	2.165	.394	2.953	2.047	1.811					
C6	C6-391.CGC-20 150	1	63	20	50	40	36	150	55	10	128	52	46	2.3	2.5	25000	20	
			2.480	.787	1.968	1.575	1.417	5.906	2.165	.394	5.039	2.047	1.811					
	C6-391.CGC-25 101	1	63	25	50	45	41	101	59	10	79	56	50	1.6	2.5	25000	25	
			2.480	.984	1.968	1.772	1.614	3.976	2.323	.394	3.110	2.205	1.968					
C8	C8-391.CGC-20 103	1	80	20	50	40	36	103	55	10	72	52	46	2.5	2.5	14000	20	
			3.150	.787	1.968	1.575	1.417	4.055	2.165	.394	2.835	2.047	1.811					
	C8-391.CGC-25 107	1	80	25	50	45	41	107	59	10	76	56	50	2.6	2.5	14000	25	
			3.150	.984	1.968	1.772	1.614	4.213	2.323	.394	2.992	2.205	1.968					

- 1) 1 = coolant through centre
- 2) Balance quality code.
- 3) Rotational speed at balance quality.
- 4) Min. clamping length



G177



G6

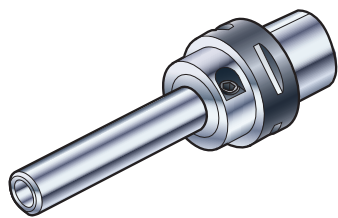


G2

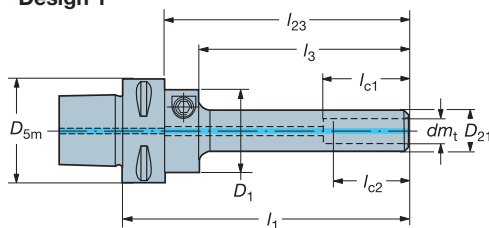
Hydro-Grip pencil

High precision chuck adaptor
Coromant Capto®

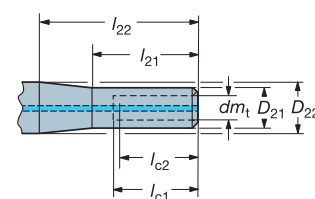
Pencil type
391.CGB



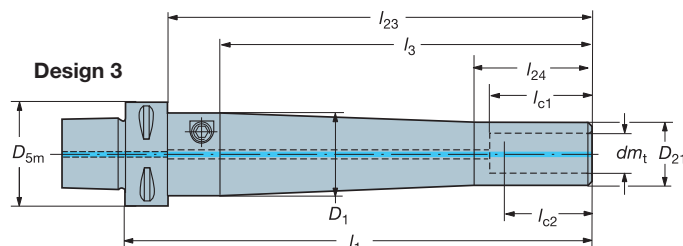
Design 1



Design 2



Design 3



Accessories

Not delivered with the tool, must be ordered separately.



Page G135

l_1 = programming length

F

Coupling size	Design	Ordering code	Coolant ⁴⁾	Dimensions, mm, inch														BLQ ²⁾	NBLQ ³⁾	Collet size
				dm_t	D_1	D_{21}	D_{22}	D_{5m}	l_1	l_3	l_{c1}	l_{c2}	l_{c3}	l_{c4}	l_{c1}	$l_{c2}^{(1)}$	$\frac{D}{mm}$			
C4	1	C4-391.CGB-06 086	1	6	40	12		40	86	50							40 37 0.5	2.5	25000	
				.236	1.575	.472		1.575	3.386	1.968							1.575 1.457			
	1	C4-391.CGB-12 098A	1	12	40	19.5		40	98	50							40 37 0.7	2.5	25000	12
				.472	1.575	.768		1.575	3.858	1.968							1.575 1.457			
	1	C4-391.CGB-12 148A	1	12	40	19.5		40	148	100							40 37 0.8	2.5	15000	12
				.472	1.575	.768		1.575	5.827	3.937							1.575 1.457			
C5	2	C4-391.CGB-12 198A	1	12	40	19.5	24.5	40	198	150	50	75					40 37 0.9	2.5	10000	12
				.472	1.575	.768	.965	1.575	7.795	5.906	1.968	2.953					1.575 1.457			
	1	C5-391.CGB-06 086	1	6	40	12		50	86	50			66				40 37 0.5	2.5	25000	
				.236	1.575	.472		1.968	3.386	1.968			2.598				1.575 1.457			
	1	C5-391.CGB-12 086	1	12	40	19.5		50	86	50			66				40 37 1.0	2.5	25000	12
				.472	1.575	.768		1.968	3.386	1.968			2.598				1.575 1.457			
C6	1	C5-391.CGB-12 136	1	12	40	19.5		50	136	100			116				40 37 1.1	2.5	15000	12
				.472	1.575	.768		1.968	5.354	3.937			4.567				1.575 1.457			
	2	C5-391.CGB-12 186	1	12	40	19.5	24.5	50	186	150	50	75	166				40 37 1.2	2.5	10000	12
				.472	1.575	.768	.965	1.968	7.323	5.906	1.968	2.953	6.535				1.575 1.457			
	3	C5-391.CGB-20 158A	1	20	40	32		50	158	110			138	60	52	49	1.3	2.5	20000	20
				.787	1.575	1.260		1.968	6.220	4.331			5.433	2.362	2.047	1.929				
C8	3	C5-391.CGB-20 238A	1	20	40	32		50	238	190			218	60	52	49	1.7	2.5	10000	20
				.787	1.575	1.260		1.968	9.370	7.480			8.583	2.362	2.047	1.929				
	1	C6-391.CGB-06 088	1	6	40	12		63	88	50			66				40 37 1.9	2.5	25000	
				.236	1.575	.472		2.480	3.465	1.968			2.598				1.575 1.457			
	1	C6-391.CGB-12 092A	1	12	40	19.5		63	92	50			70				40 37 1.1	2.5	25000	12
				.472	1.575	.768		2.480	3.622	1.968			2.756				1.575 1.457			
C8	1	C6-391.CGB-12 142A	1	12	40	19.5		63	142	100			120				40 37 1.3	2.5	15000	12
				.472	1.575	.768		2.480	5.591	3.937			4.724				1.575 1.457			
	2	C6-391.CGB-12 192A	1	12	40	19.5	24.5	63	192	150	50	75	170				40 37 1.5	2.5	10000	12
				.472	1.575	.768	.965	2.480	7.559	5.906	1.968	2.953	6.693				1.575 1.457			
	3	C6-391.CGB-20 152A	1	20	40	32		63	152	110			130	60	52	49	1.9	2.5	20000	20
				.787	1.575	1.260		2.480	5.984	4.331			5.118	2.362	2.047	1.929				
C8	3	C6-391.CGB-20 232A	1	20	40	32		63	232	190			210	60	52	49	2.9	2.5	10000	20
				.787	1.575	1.260		2.480	9.134	7.480			8.268	2.362	2.047	1.929				
	1	C8-391.CGB-12 100	1	12	40	19.5		80	100	50			70				40 37 2.2	2.5	14000	12
				.472	1.575	.768		3.150	3.937	1.968			2.756				1.575 1.457			
	1	C8-391.CGB-12 150	1	12	40	19.5		80	150	100			120				40 37 2.4	2.5	14000	12
				.472	1.575	.768		3.150	5.906	3.937			4.724				1.575 1.457			
J	2	C8-391.CGB-12 200	1	12	40	19.5	24.5	80	200	150	50	75	170				40 37 2.4	2.5	14000	12
				.472	1.575	.768	.965	3.150	7.874	5.906	1.968	2.953	6.693				1.575 1.457			
	3	C8-391.CGB-20 160	1	20	40	32		80	160	110			130	60	52	49	2.7	2.5	14000	20
				.787	1.575	1.260		3.150	6.299	4.331			5.118	2.362	2.047	1.929				
	3	C8-391.CGB-20 240	1	20	40	32		80	240	190			210	60	52	49	3.3	2.5	14000	20
				.787	1.575	1.260		3.150	9.449	7.480			8.268	2.362	2.047	1.929				

1) Min. clamping length
2) Balance quality code.

3) Rotational speed at balance quality.
4) 1 = coolant through centre



G177



G6



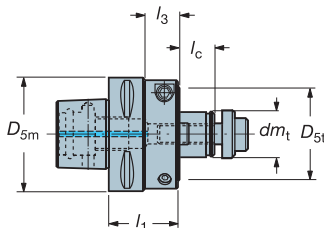
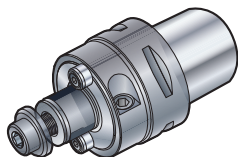
G2

Hydro-Grip®

High precision adaptor for face mills and square shoulder face mills

Coromant Capto®

391.05CG



All holders are delivered with a standard screw without hole for coolant.
For cutters with coolant channels a new screw with radial coolant holes is necessary and can be ordered separately.
See page G173

l_1 = programming length

Metric pilot

Coupling size	Ordering code	Coolant ¹⁾	Dimensions, mm								BLQ ²⁾	NBLQ ³⁾
			<i>d</i> _m	<i>D</i> _{5m}	<i>D</i> _{5t}	<i>l</i> _c	<i>l</i> ₁	<i>l</i> ₃				
C5	C5-391.05CG-22 048	1	22	50	48	19	48	28	0.8	2.5	23000	
	C5-391.05CG-27 048	1	27	50	48	21	48	28	1	2.5	14000	
	C5-391.05CG-32 052	1	32	50	63	24	52	32	1.3	2.5	11200	
C6	C6-391.05CG-22 050	1	22	63	48	19	50	28	1.2	2.5	23000	
	C6-391.05CG-27 050	1	27	63	53	21	50	28	1.3	2.5	14000	
	C6-391.05CG-32 050	1	32	63	63	24	50		1.5	2.5	11200	
	C6-391.05CG-40 054	1	40	63	76	27	54	32	2	2.5	8900	
C8	C8-391.05CG-22 050	1	22	80	48	19	50	20	2.1	2.5	14000	
	C8-391.05CG-27 050	1	27	80	53	21	50	20	2.2	2.5	14000	
	C8-391.05CG-32 050	1	32	80	63	24	50	20	2.4	2.5	11200	
	C8-391.05CG-40 050	1	40	80	76	27	50	20	2.6	2.5	8900	

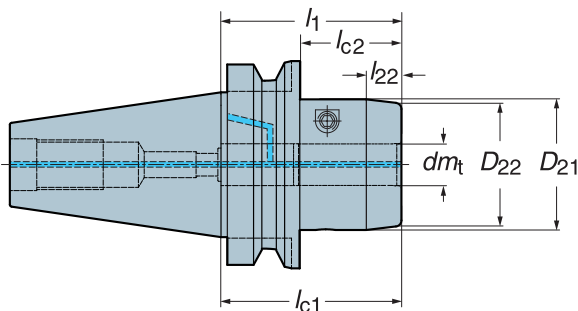
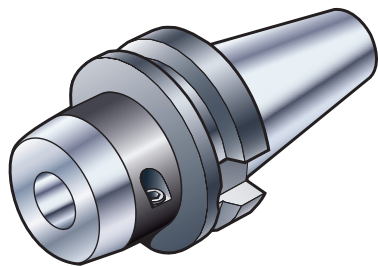
- 1) 1 = coolant through centre
2) Balance quality code.
3) Rotational speed at balance quality.



Hydro-Grip HD

High precision chuck

392.45CGD/.272CGD/.55CGD



Accessories

Not delivered with the tool, must be ordered separately.

393.CG

393.CGS

Adjustment screw
5512 100-03



Page G135

l_1 = programming length

Metric version

				Dimensions, mm										
Machine design	Taper	Ordering code	Coolant ¹⁾	d_{m1}	D_{21}	D_{22}	h_1	h_2	h_1	h_2		BLQ ²⁾	NBLQ ³⁾	Collet size
ISO7388.1	40	392.272CGD-40 20 090	7	20	63	59	90	17	90	71	2.1	2.5	25000	20
	50	392.272CGD-50 20 068	7	20	63	59	68	17	68	49	3.6	2.5	14000	20
		392.272CGD-50 25 079	7	25	74	70	79	17	79	60	4.2	2.5	14000	25
		392.272CGD-50 32 083	7	32	80	76	83	17	83	64	4.6	2.5	14000	32
MAS-BT 403	40	392.55CGD-40 20 079	7	20	63	59	79	17	79	79	2.0	2.5	25000	20
	50	392.55CGD-50 20 087	7	20	63	59	87	17	87	49	4.6	2.5	14000	20
		392.55CGD-50 25 091	7	25	74	70	91	17	91	53	5.0	2.5	14000	25
		392.55CGD-50 32 095	7	32	80	76	95	17	95	57	5.3	2.5	14000	32

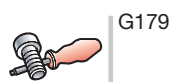
				Dimensions, mm, inch										
Machine design	Taper	Ordering code	Coolant ¹⁾	dm_1	D_{21}	D_{22}	h_1	h_{22}	h_{c1}	h_{c2}		BLQ ²⁾	NBLQ ³⁾	Collet size
CAT V	40	392.45CGD-40 20 090	7	20	63	59	90	17	90	71	2.1	2.5	25000	20
				.787	2.480	2.323	3.543	.669	3.543	2.795				
	50	392.45CGD-50 20 068	7	20	63	59	68	17	68	49	3.5	2.5	14000	20
				.787	2.480	2.323	2.677	.669	2.677	1.929				
		392.45CGD-50 25 092	7	25	74	70	92	17	92	73	4.6	2.5	14000	25
				.984	2.913	2.756	3.622	.669	3.622	2.874				
		392.45CGD-50 32 097	7	32	80	76	97	17	97	78	4.9	2.5	14000	32
				1.260	3.150	2.992	3.819	.669	3.819	3.071				

1) 7 = coolant through centre and through flange

2) Balance quality code.

3) Rotational speed at balance quality.

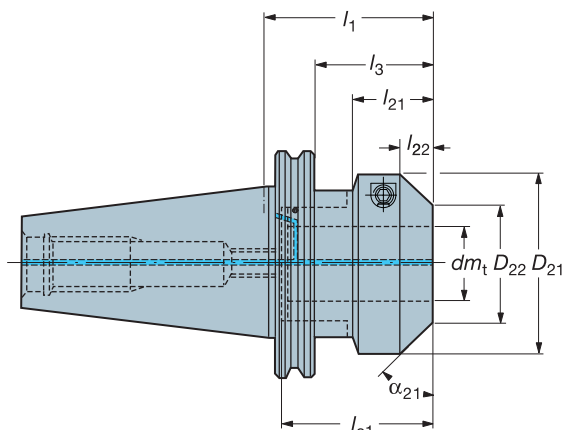
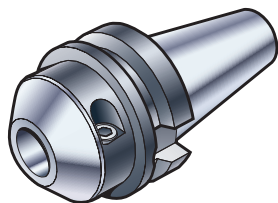
Note: Toolholders are convertible to coolant through flange by removing two screws on the back of the V-Flange.



Hydro-Grip short

High precision chuck

392.272CG/ .55CG/ .45G



Accessories

Not delivered with the tool, must be ordered separately.



Adjustment screw
5512100-xx

Page G135

l_1 = programming length

				Dimensions, mm, inch													
Machine design	Taper	Ordering code	Coolant ⁴⁾	d_{m1}	D_{21}	D_{22}	l_1	l_3	l_{21}	l_{22}	l_{C1}	α_{21}		BLQ ⁵⁾	NBLQ ⁶⁾	Collet size	
CAT V	40	392.45CG-40 12 056	7	12	43.5	19.8	56	36.9		20.5	40	60	1.2	2.5	25000	12	
		392.45CG-40 20 060 ¹⁾	7	.472	1.713	.780	2.205	1.453		.807	1.575						
				20	52	27.3	60	40.9	18.3	4.5	52	20	1.3	2.5	25000	20	
		392.45CG-40 25 064	7	.787	2.047	1.075	2.362	1.610	.720	.177	2.047						
				25	59	37.6	64	44.9	26.8	7.5	56	35	1.4	2.5	14000	25	
				.984	2.323	1.480	2.520	1.768	1.055	.295	2.205						
		392.45CG-40 20 125	7	20	52	28.3	125	105.9	20.4	32.5	52	70	2.0	2.5	25000	20	
				.787	2.047	1.114	4.921	4.169	.803	1.280	2.047						
		50	392.45CG-50 20 060 ²⁾	7	20	52	29.2	60	40.9		24.5	52	65	3.2	2.5	14000	20
				.787	2.047	1.150	2.362	1.610		.965	2.047						
		392.45CG-50 25 064	7	25	59	38.3	64	44.9		28.5	56	70	3.4	2.5	14000	25	
				.984	2.323	1.508	2.520	1.768		1.122	2.205						
		392.45CG-50 32 068 ³⁾	7	32	69.5	46.6	68	48.9		31.5	60	70	3.6	2.5	14000	32	
				1.260	2.736	1.835	2.677	1.925		1.240	2.362						

				Dimensions													
Machine design	Taper	Ordering code	Coolant ¹⁾	d_{m1}	D_{21}	D_{22}	h_1	h_3	h_{21}	h_{22}	α_{21}	h_{C1}		BLQ ²⁾	NBLQ ³⁾	Collet size	
ISO7388.1	40	392.272CG-40 20 060A	7	20	52	27.3	60	40.9	23.8	4.5	70	52	1.3	2.5	25000	20	
		392.272CG-40 20 125	7	20	52	28.3	125	105.9	51.8	32.5	70	52	1.9	2.5	25000	20	
		392.272CG-40 25 064	7	25	59	37.6	64	44.9	26.8	7.5	35	56	1.4	2.5	25000	25	
	50	392.272CG-50 20 060	7	20	52	29.2	60	40.9		24.5	65	52	3.2	2.5	14000	20	
		392.272CG-50 25 064	7	25	59	38.3	64	44.9		28.5	70	56	3.3	2.5	14000	25	
		392.272CG-50 25 150	7	25	59	39.4	150	130.9		36.5	75	56	5.1	2.5	14000	25	
MAS-BT 403	40	392.272CG-50 32 068A	7	32	69.5	46.6	68	48.9		31.5	70	60	3.5	2.5	14000	32	
		392.55CG-40 12 052	7	12	43.5	19.3	52	25.0		8.5	35	40	1.2	2.5	25000	12	
		392.55CG-40 20 056A	7	20	52	26	56	29.0		13	45	52	1.3	2.5	25000	20	
		392.55CG-40 20 125	7	20	52	28.3	125	98.0		32.5	70	52	2.3	2.5	25000	20	
		392.55CG-40 25 060	7	25	59	39.4	60	33.0		17	60	56	1.4	2.5	25000	25	
	50	392.55CG-50 20 067	7	20	52	26	67	29.0		13	45	52	4.1	2.5	14000	20	
		392.55CG-50 25 071	7	25	59	39.4	71	33.0		17	60	56	4.2	2.5	14000	25	
		392.55CG-50 25 150	7	25	59	39.4	150	112.0		36.5	75	56	5.7	2.5	14000	25	
		392.55CG-50 32 075A	7	32	69.5	45.8	75	37.0		20.5	60	60	4.3	2.5	14000	32	

1) 392.45CG-40 20 060 replaces 40 MM-VF 060 CG20

2) 392.45CG-50 20 060 replaces 50 MM-VF 060 CG20

3) 392.45CG-50 32 068 replaces 50 MM-VF 068 CG32

4) 7 = coolant through centre and through flange

5) Balance quality code.

6) Rotational speed at balance quality.

Note: Toolholders are convertible to coolant through flange by removing two screws on the back of the V-Flange.



G179



G48



G2

Hydro-Grip pencil

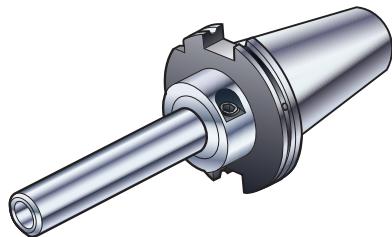
High precision chuck

Pencil type

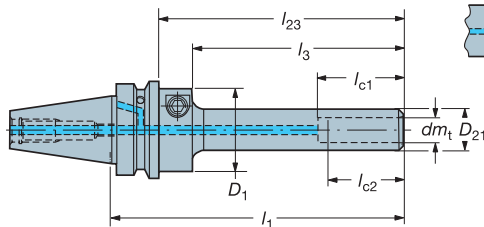
Metric bore

392.272CGB/.55CGB

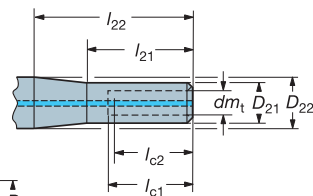
392.45CGB



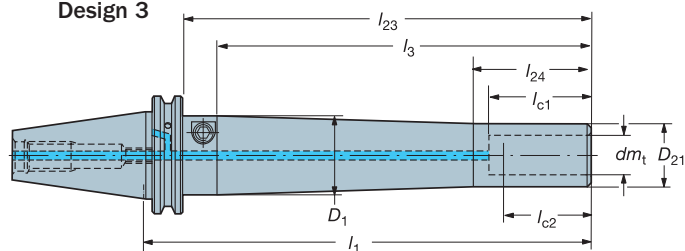
Design 1



Design 2



Design 3



Accessories

Not delivered with the tool, must be ordered separately.



See page G135.

l_1 = programming length

Cat V-Flange

Dimensions, mm, inch																
Design	Taper	Ordering code	Coolant ¹⁾	dm_1	D_1	D_{21}	l_1	l_3	l_{23}	l_{24}	l_{c1}	$l_{c2}^{(2)}$	α_{KG}	BLQ ³⁾	NBLQ ⁴⁾	Collet size
1	40	392.45CGB-40 12 086	7	12	40	19.5	86	50	66.95		40	37	1.1	2.5	25000	12
				.472	1.575	.768	3.386	1.968	2.636		1.575	1.457		2.5		
1		392.45CGB-40 12 136	7	12	40	19.5	136	100	116.95		40	37	1.2	2.5	15000	
				.472	1.575	.768	5.354	3.937	4.604		1.575	1.457		2.5		
3		392.45CGB-40 20 146	7	20	40	32	146	110	126.95	60	52	49	1.6	2.5	20000	20
				.787	1.575	1.260	5.748	4.331	4.998	2.362	2.047	1.929		2.5		

ISO 7388/I

Dimensions, mm																
Design	Taper	Ordering code	Coolant ¹⁾	dm_1	D_1	D_{21}	D_{22}	l_1	l_3	l_{21}	l_{22}	l_{23}	l_{24}	l_{c1}	$l_{c2}^{(2)}$	α_{KG}
1	40	392.272CGB-40 12 085	7	12	40	19.5		85	50			65.9		40	37	1.1
1		392.272CGB-40 12 135	7	12	40	19.5		135	100			115.9		40	37	1.2
2		392.272CGB-40 12 185	7	12	40	19.5	24.5	185	150	50	75	165.9		40	37	1.4
3		392.272CGB-40 20 225	7	20	40	32		225	190			205.9	60	52	49	2.2

MAS-BT 403

Dimensions, mm																
Design	Taper	Ordering code	Coolant ¹⁾	dm_1	D_1	D_{21}	D_{22}	l_1	l_3	l_{21}	l_{22}	l_{23}	l_{24}	l_{c1}	$l_{c2}^{(2)}$	α_{KG}
1	30	392.55CGB-30 06 088	7	6	40	12		88	50			66		40	37	0.6
1		392.55CGB-30 12 088	7	12	40	19.5		88	50			66		40	37	0.6
1		392.55CGB-30 12 138	7	12	40	19.5		138	100			116		40	37	0.7
1	40	392.55CGB-40 12 093	7	12	40	19.5		93	50			66		40	37	1.3
1		392.55CGB-40 12 143	7	12	40	19.5		143	100			116		40	37	1.4
2		392.55CGB-40 12 193	7	12	40	19.5	24.5	193	150	50	75	166		40	37	1.6
3		392.55CGB-40 20 153	7	20	40	32		153	110			126	60	52	49	1.8

1) 7 = coolant through centre and through flange

2) Min. clamping length

3) Balance quality code.

4) Rotational speed at balance quality.

Note: Toolholders are convertible to coolant through flange by removing two screws on the back of the V-Flange.



G179



G48

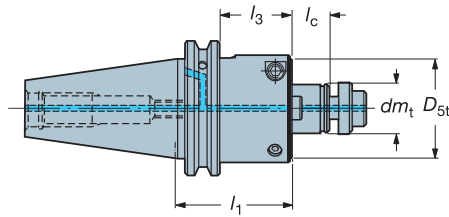
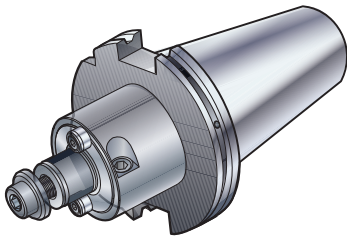


G2

Hydro-Grip®

High precision holder for face mills and square shoulder face mills

A1B05CG / A2B05CG



h_1 = programming length

Metric pilot

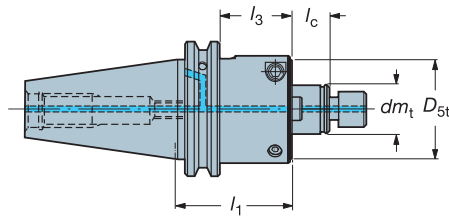
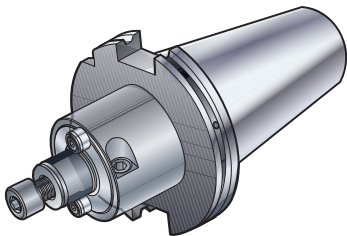
Machine design	Taper	Ordering code	Coolant ¹⁾	Dimensions, mm									
ISO7388.1	40	A1B05CG-40 22 051	7	<i>d</i> _{m1}	<i>D</i> _{5t}	<i>l</i> _c	<i>h</i> ₁	<i>h</i> ₃		BLQ ²⁾	NBLQ ³⁾		
		A1B05CG-40 27 067	7	22	48	19	51	31.9	1.6	2.5	14000		
		A1B05CG-40 32 071	7	27	53	21	67	31.9	1.9	2.5	11200		
	50	A1B05CG-50 22 040	7	32	63	24	71	35.9	2.9	2.5	14000		
		A1B05CG-50 27 040	7	22	48	19	40	20.9	3	2.5	14000		
		A1B05CG-50 32 040	7	27	53	21	40	20.9	3.2	2.5	11200		
		A1B05CG-50 40 052	7	32	63	24	40	20.9	3.9	2.5	8900		
		MAS-BT 403	40	A2B05CG-40 22 050	7	<i>d</i> _{m1}	<i>D</i> _{5t}	<i>l</i> _c	<i>h</i> ₁	<i>h</i> ₃		BLQ ²⁾	NBLQ ³⁾
				A2B05CG-40 27 050	7	22	48	19	50	23	1.4	2.5	14000
A2B05CG-40 32 050	7			27	53	21	50	23	1.6	2.5	11200		
50	A2B05CG-50 22 061		7	32	63	24	50		4	2.5	14000		
	A2B05CG-50 27 061		7	22	48	19	61	23	4.1	2.5	14000		
	A2B05CG-50 32 061		7	27	53	21	61	23	4.3	2.5	11200		
	A2B05CG-50 40 061	7	32	63	24	61	23	4.6	2.5	8900			

¹⁾ 7 = coolant through centre and through flange

²⁾ Balance quality code.

³⁾ Rotational speed at balance quality.

AA3B05CG



h_1 = programming length

Inch pilot

Machine design	Taper	Ordering code	Coolant ¹⁾	Dimensions, inch							
				dm_h	D_{St}	l_c	h_1	h_3		BLQ ²⁾	NBLQ ³⁾
CAT V	40	AA3B05CG-40 19 066	7	.750	1.890	.748	2.598	1.216	3.1	2.5	23000
		AA3B05CG-40 25 067	7	1.000	2.087	.748	2.638	1.256	3.3	2.5	14000
		AA3B05CG-40 38 073	7	1.500	2.992	.984	2.874	1.492	5.3	2.5	8900
	50	AA3B05CG-50 19 039	7	.750	1.890	.748	1.535	.785	6.4	2.5	14000
		AA3B05CG-50 25 039	7	1.000	2.087	.748	1.535	.785	6.6	2.5	14000
		AA3B05CG-50 38 067	7	1.500	2.992	.984	2.638	1.256	9.5	2.5	8900

¹⁾ 7 = coolant through centre and through flange

²⁾ Balance quality code.

³⁾ Rotational speed at balance quality.

Note: Toolholders are convertible to coolant through flange by removing two screws on the back of the V-Flange.

All holders are delivered with a standard screw without hole for coolant.
For cutters with coolant channels a new screw with radial coolant holes is necessary and can be ordered separately.
See page G161



G178

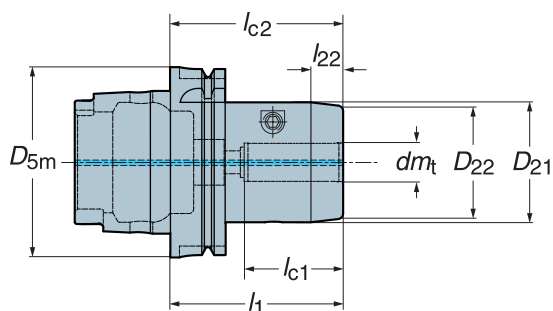


G48



G2

High precision chuck adaptor



Not delivered with the tool, must be ordered separately.	393.CG 393.CGS
--	-------------------

Page G135

 l_1 = programming length

HSK size	Ordering code	Coolant ¹⁾	Dimensions, mm, inch									BLQ ²⁾	NBLQ ³⁾
			D_{5m}	d_{m1}	D_{21}	D_{22}	l_1	l_{22}	l_{c1}	l_{c2}			
63	392.410CGD-63 20 096	1	63	20	63	59	96	17	52	70	2.0	2.5	25000
			2.480	.787	2.480	2.323	3.780	.669	2.047	2.756			
100	392.410CGD-100 20 091	1	100	20	63	59	91	17	52	62	3.3	2.5	14000
			3.937	.787	2.480	2.323	3.583	.669	2.047	2.441			
	392.410CGD-100 25 095	1	100	25	74	70	95	17	56	66	3.9	2.5	14000
			3.937	.984	2.913	2.756	3.740	.669	2.205	2.598			
	392.410CGD-100 32 099	1	100	32	80	76	99	17	60	70	4.2	2.5	14000
			3.937	1.260	3.150	2.992	3.898	.669	2.362	2.756			

- 1) 1 = coolant through centre
- 2) Balance quality code.
- 3) Rotational speed at balance quality.

Coolant tube must be ordered separately, see page G80.



G179



G69



G2

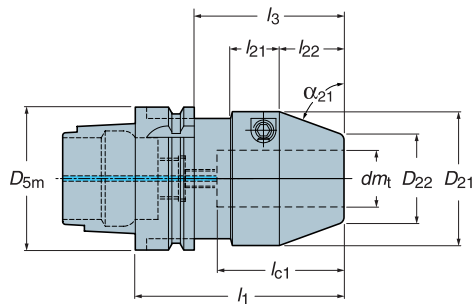
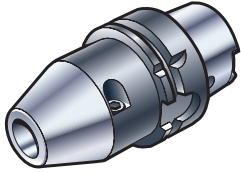
Hydro-Grip short

High precision chuck adaptor

Short version

HSK

392.410CGA



Accessories

Not delivered with the 393.CG tool, must be ordered 393.CGS separately.

Adjustment screw
5512100-xx



Page G135

Note: Hole for data carrier is not standard.

l_1 = programming length

			Dimensions, mm, inch														
HSK size	Ordering code	Coolant ¹⁾	dm_1	D_{21}	α_{22}	D_{5m}	l_1	l_3	l_{21}	l_{22}	l_{c1}	α_{21}		BLQ ²⁾	NBLQ ³⁾	Collet size	
63	392.410CGA-63 12 076B	1	12	43.5	19.8	63	76	50		20.5	40	60	1.1	2.5	25000	12	
			.472	1.713	.780	2.480	2.992	1.968		.807	1.575						
	392.410CGA-63 20 088B	1	20	52	28.3	63	88	62		32.5	52	70	1.4	2.5	25000	20	
			.787	2.047	1.114	2.480	3.465	2.441		1.280	2.047						
	392.410CGA-63 20 150	1	20	52	28.3	63	150	124		32.5	52	70	2.4	2.5	25000	20	
			.787	2.047	1.114	2.480	5.906	4.882		1.280	2.047						
63	392.410CGA-63 25 092	1	25	59	38.3	63	92	66		28.5	56	70	1.6	2.5	25000	25	
			.984	2.323	1.508	2.480	3.622	2.598		1.122	2.205						
	392.410CGA-63 32 096B	1	32	69.5	46.5	63	96	70	20.3	31.5	60	70	1.9	2.5	25000	32	
			1.260	2.736	1.831	2.480	3.780	2.756	.799	1.240	2.362						
	100	392.410CGA-100 12 079B	1	12	43.5	19.8	100	79	50		20.5	40	60	2.5	2.5	14000	12
				.472	1.713	.780	3.937	3.110	1.968		.807	1.575					
392.410CGA-100 20 091B		1	20	52	28.3	100	91	62		32.5	52	70	2.7	2.5	14000	20	
			.787	2.047	1.114	3.937	3.583	2.441		1.280	2.047						
392.410CGA-100 25 095		1	25	59	39.4	100	95	66		36.5	56	75	3.0	2.5	14000	25	
			.984	2.323	1.551	3.937	3.740	2.598		1.437	2.205						
100	392.410CGA-100 32 099B	1	32	69.5	47.8	100	99	70		40.5	60	75	3.4	2.5	14000	32	
			1.260	2.736	1.882	3.937	3.898	2.756		1.594	2.362						

¹⁾ 1 = coolant through centre

²⁾ Balance quality code.

³⁾ Rotational speed at balance quality.

Coolant tube must be ordered separately, see page G80.



G180



G69



G2

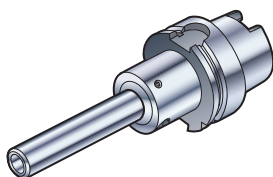
Hydro-Grip pencil

High precision chuck

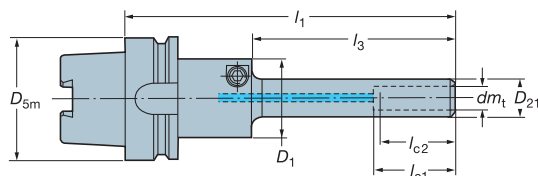
HSK

Pencil type

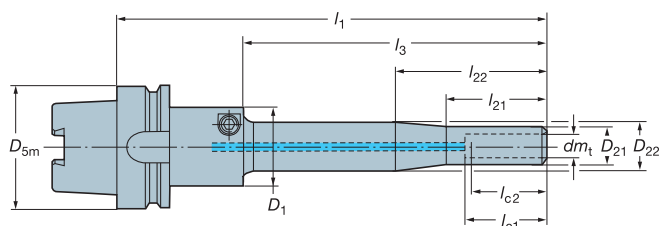
392.410CGB



Design 1



Design 2



Accessories

Not delivered with the 393.CG tool, must be ordered separately.



Page G135

Note: Hole for data carrier is not standard.

l_{c2} = Min clamping length, l_1 = programming length

				Dimensions, mm, inch													
Design	HSK size	Ordering code	Coolant ¹⁾	d_{m1}	D_1	D_{21}	D_{22}	D_{5m}	l_1	l_3	l_{c1}	l_{c2} ²⁾		BLQ ³⁾	NBLQ ⁴⁾	Collet size	
1	63	392.410CGB-63 06 095	1	6	40	12		63	94.5	50			40 37 1	2.5	25000	-	
				.236	1.575	.472		2.480	3.720	1.968			1.575 1.457				
1		392.410CGB-63 12 112B	1	12	40	19.5		63	112	50			40 37 1.2	2.5	25000	12	
				.472	1.575	.768		2.480	4.409	1.968			1.575 1.457				
1		392.410CGB-63 12 162B	1	12	40	19.5		63	162	100			40 37 1.3	2.5	15000		
				.472	1.575	.768		2.480	6.378	3.937			1.575 1.457				
2		392.410CGB-63 12 212B	1	12	40	19.5	24.5	63	212	150	50	75	40 37 1.6	2.5	10000		
				.472	1.575	.768	.965	2.480	8.346	5.906	1.968	2.953	1.575 1.457				
1	100	392.410CGB-100 12 115B	1	12	40	19.5		100	115	50			40 37 2.8	2.5	14000	12	
				.472	1.575	.768		3.937	4.528	1.968			1.575 1.457				
1		392.410CGB-100 12 165B	1	12	40	19.5		100	165	100			40 37 2.9	2.5	14000		
				.472	1.575	.768		3.937	6.496	3.937			1.575 1.457				
2		392.410CGB-100 12 215B	1	12	40	19.5	24.5	100	215	150	50	75	40 37 3.1	2.5	10000		
				.472	1.575	.768	.965	3.937	8.465	5.906	1.968	2.953	1.575 1.457				

¹⁾ 1 = coolant through centre

²⁾ Min. clamping length

³⁾ Balance quality code.

⁴⁾ Rotational speed at balance quality.

Coolant tube must be ordered separately, see page G80.



G180



G69

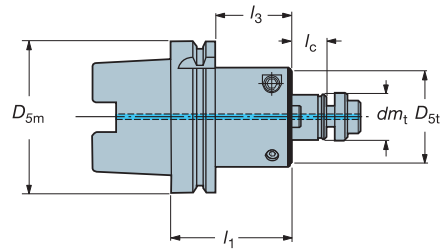
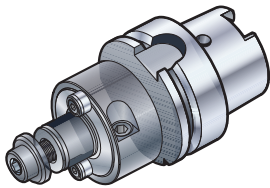


G2

Hydro-Grip

High precision adaptor for face mills and square shoulder face mills

HSK form A/C
41005CG



l_1 = programming length
Note: Hole for data carrier is not standard.

Metric pilot

HSK size	Ordering code	Coolant ¹⁾	Dimensions, mm							BLQ ²⁾	NBLQ ³⁾
			dm_t	D_{5m}	D_{5t}	l_c	l_1	l_3			
63	41005CG-63 22 057	1	22	63	48	19	57	31	1.1	2.5	23000
	41005CG-63 27 057	1	27	63	53	21	57	31	1.2	2.5	14000
	41005CG-63 32 074	1	32	63	63	24	74	32	1.8	2.5	11000
	41005CG-63 40 079	1	40	63	76	27	79	37	2.3	2.5	9000
100	41005CG-100 22 064	1	22	100	48	19	64	35	2.5	2.5	14000
	41005CG-100 27 064	1	27	100	48	21	64	35	2.6	2.5	14000
	41005CG-100 32 064	1	32	100	63	24	64	35	2.8	2.5	11000
	41005CG-100 40 064	1	40	100	76	27	64	35	3.3	2.5	9000

¹⁾ 1 = coolant through centre

²⁾ Balance quality code.

³⁾ Rotational speed at balance quality.

All holders are delivered with a standard screw without hole for coolant.

For cutters with coolant channels a new screw with radial coolant holes is necessary and can be ordered separately.

See page G173



G180



G69



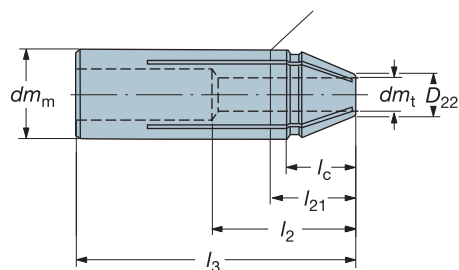
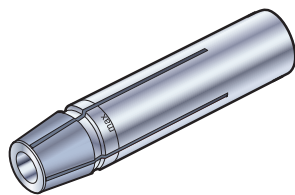
G2

Hydro-Grip® Pencil collet

Pencil collet

393.CGP

Max recommended protrusion



Metric

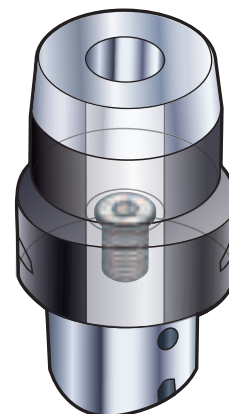
Collet size	Ordering code	Dimensions, mm							
		dm_m	dm_t	D_{22}	l_c	$l_2^{(1)}$	l_3	l_{21}	$\frac{m}{kg}$
20	393.CGP-20 06 72	20	6	9	17	37	72	21	0.1
	393.CGP-20 08 72	20	8	11	17	37	72	21	0.1
	393.CGP-20 10 72	20	10	13	17	41	72	21	0.1
	393.CGP-20 12 72	20	12	15	17	41	72	21	0.1

¹⁾ Min. tool length to be clamped inside collet

Accessories for Hydro-Grip

Adjustment screw

Ordering code	For type		
	Coromant Capto	Solid holder	HSK holder
5512 100-01	C4-391.CGA		
	Cx-391.CGC-12xxx		
5512 100-02	C5-C8-391.CGA	392.272CG	392.CGA
	Cx-391.CGC-20xxx	392.55CG	
	Cx-391.CGC-25	392.45CG	
	Cx-391.CGD	392.45CGD	392.410CGD
5512 100-03		392.55CGD	
		392.272CGD	



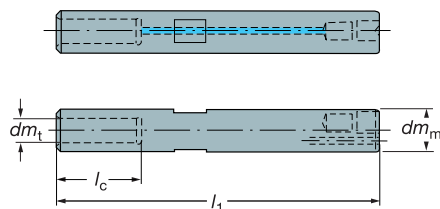
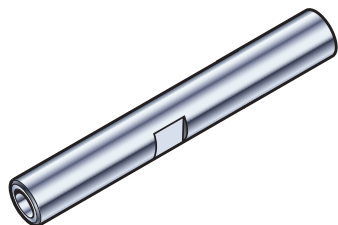
Hydro-Grip® cylindrical shank

Pencil Hydro-Grip®

High precision chuck

Cylindrical shank

393.CGA



Accessories

Not delivered with the tool, must be ordered separately.



Page G135

l_1 = programming length

Coupling size	Ordering code	Coolant ¹⁾	Dimensions, mm, inch										$\frac{m}{kg}$	BLQ ²⁾	NBLQ ³⁾	Collet size
			dm_t mm	dm_t in.	dm_m mm	dm_m in.	l_1 mm	l_1 in.	l_c mm	l_c in.						
20	393.CGA-20 12 150	1	12	.472	20	.787	150	5.906	40	1.575	0.4	2.5	15000			12

¹⁾ 1 = coolant through centre

²⁾ Balance quality code.

³⁾ Rotational speed at balance quality.



G48



G2

Exchangeable-head milling system

Flexible system with assortment of holders for different heads

Complete assortment of holders:

Coromant Capto®

- long design
- short design
- conical design

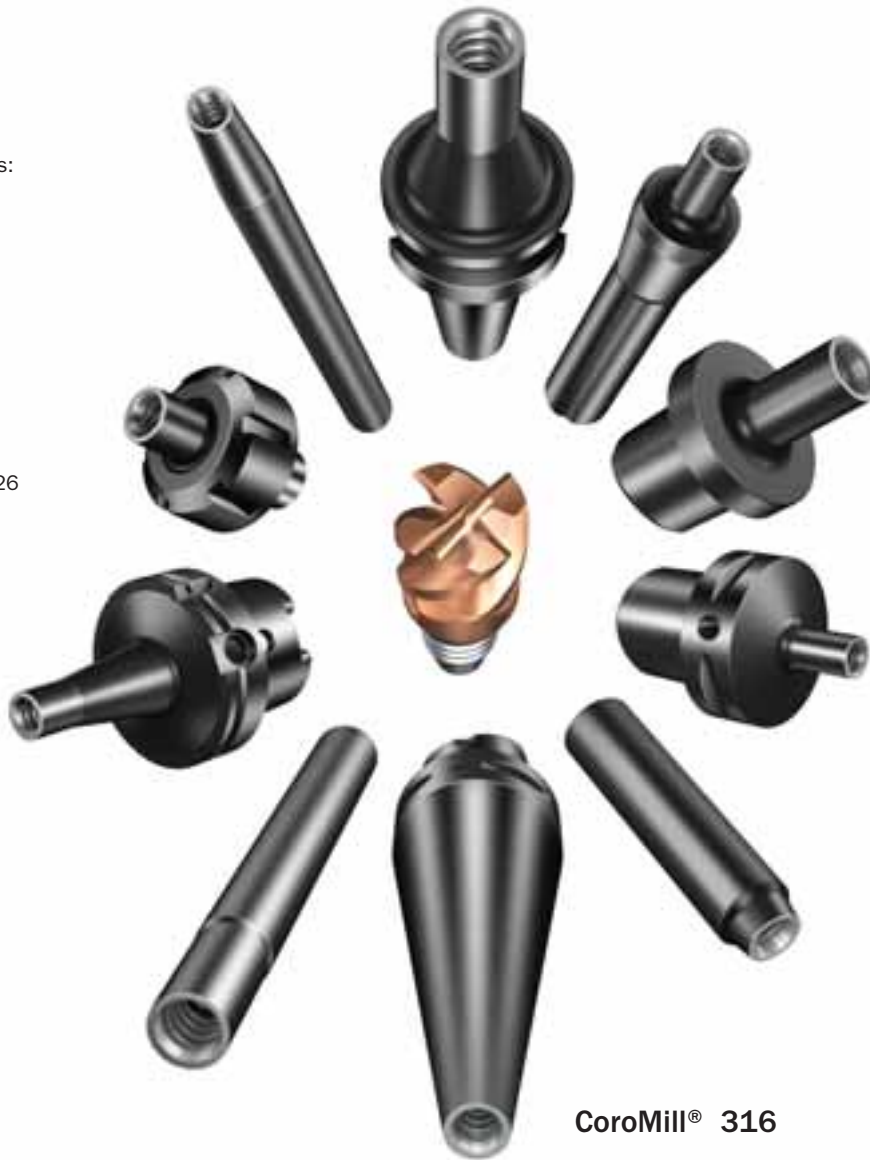
Coromant solid holder

Bridgeport

HSK solid holder

ER integrated collets

Cylindrical holder, see page D226



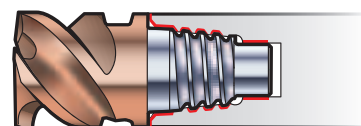
CoroMill® 316

Flexible system of holders for exchangeable heads

Tailor Made

Tool options designed to individual customer requirements are available. For information on our Tailor Made programme see page J4.

Only for cylindrical shank tools



Interface

Self-centering screw thread

See page D211

D

E

F

G

J

Code key for tool holders

Cylindrical holder

A	E12	-	A	20	-	S	S	-	140
1	2		3	4		5	6		7

Coromant Capto® holder

C3	-	A	391.EH	-	10	035
8		1	9		10	7

Solid holder

392.45EH	-	40	-	10	-	056
9		11		10		7

1 System of measurement	2 Size of interface	3 Holder type
A = Inch version	E12= EH coupling size	A = Cylindrical

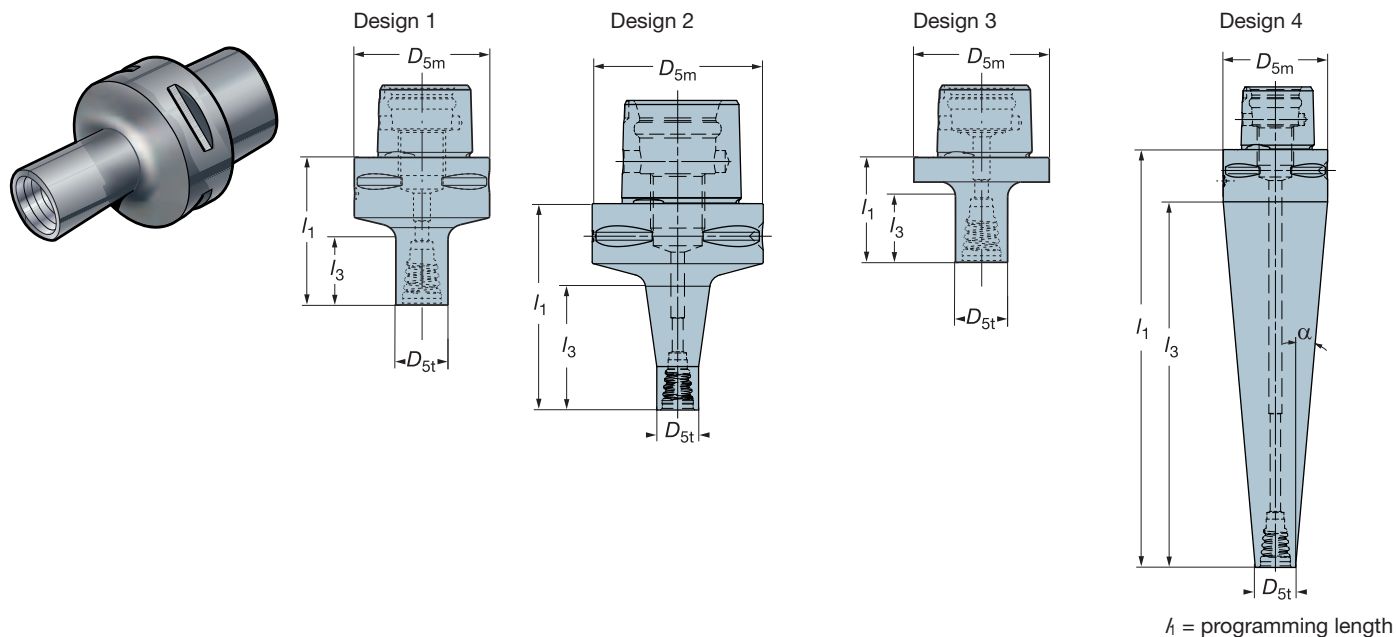
4 Holder diameter	5 Type of holder	6 Holder material	7 Length of holder
E.g.: $dm_m = 20\text{ mm}$	S = Straight C = Conical	S = Steel E = Solid carbide	E.g.: 140 = 140 mm

8 Coupling size	9 Family/ holder type	10 Size of interface	11 Taper size
C = Coromant Capto	391.EH = Coromant Capto® EH holder 392.140EH = ISO 7388.1 392.55EH = MAS-BT 403 A392.45EH = CAT V 392.410EH = HSK holder Form A/C A392.R8EH = Bridgeport holder	10 = EH coupling size	11 = Taper size for Coromant solid holders

Coromant Capto® adaptor for exchangeable head

Cx-391.EH
Cx-A391.EH

Without gripper grooves for manual
tool change



Metric version

Coromant Capto size	Coupling size	Ordering code	Design	Coolant ¹⁾	Dimensions, mm					
					D_{5m}	D_{5t}	l_1	l_3	α°	$\frac{Q}{kg}$
C3	E10	C3-391.EH-10 026	3	1	32	9.6	26	13		0.1
		C3-391.EH-10 035	1	1	32	9.6	35	13.2		0.1
		C3-391.EH-10 049	2	1	32	9.6	49	28.5		0.1
		C3-391.EH-10 143	4	1	32	9.6	143	128	5°	0.5
	E12	C3-391.EH-12 029	3	1	32	11.6	29	16		0.1
		C3-391.EH-12 038	1	1	32	11.6	38	16.4		0.1
		C3-391.EH-12 054	2	1	32	11.6	54	33.9		0.2
		C3-391.EH-12 132	4	1	32	11.6	132	117	5°	0.5
	E16	C3-391.EH-16 043	1	1	32	15.4	43	21.9		0.1
		C3-391.EH-16 065	2	1	32	15.4	65	45.7		0.2
		C3-391.EH-16 110	4	1	32	15.4	110	95	5°	0.4
C4	E10	C4-391.EH-10 026	3	1	40	9.6	26	13		0.2
		C4-391.EH-10 041	1	1	40	9.6	41	13.1		0.3
		C4-391.EH-10 055	2	1	40	9.6	55	28.5		0.3
		C4-391.EH-10 128	4	1	40	9.6	128	108	8°	0.7
	E12	C4-391.EH-12 029	3	1	40	11.6	29	16		0.2
		C4-391.EH-12 044	1	1	40	11.6	44	16.4		0.3
		C4-391.EH-12 060	2	1	40	11.6	60	33.9		0.3
		C4-391.EH-12 121	4	1	40	11.6	121	101	8°	0.7
	E16	C4-391.EH-16 035	3	1	40	15.4	35	22		0.2
		C4-391.EH-16 049	1	1	40	15.4	49	21.9		0.3
		C4-391.EH-16 071	2	1	40	15.4	71	45.7		0.4
		C4-391.EH-16 160	4	1	40	15.4	160	140	5°	0.9
	E20	C4-391.EH-20 046	1	1	40	19.2	46	19.4		0.3
		C4-391.EH-20 084	2	1	40	19.2	84	59.6		0.4
		C4-391.EH-20 139	4	1	40	19.2	139	119	5°	0.9
	E25	C4-391.EH-25 051	1	1	40	24.1	51	25		0.3
		C4-391.EH-25 074	2	1	40	24.1	74	49.6		0.4

¹⁾ 1 = coolant through centre



J3

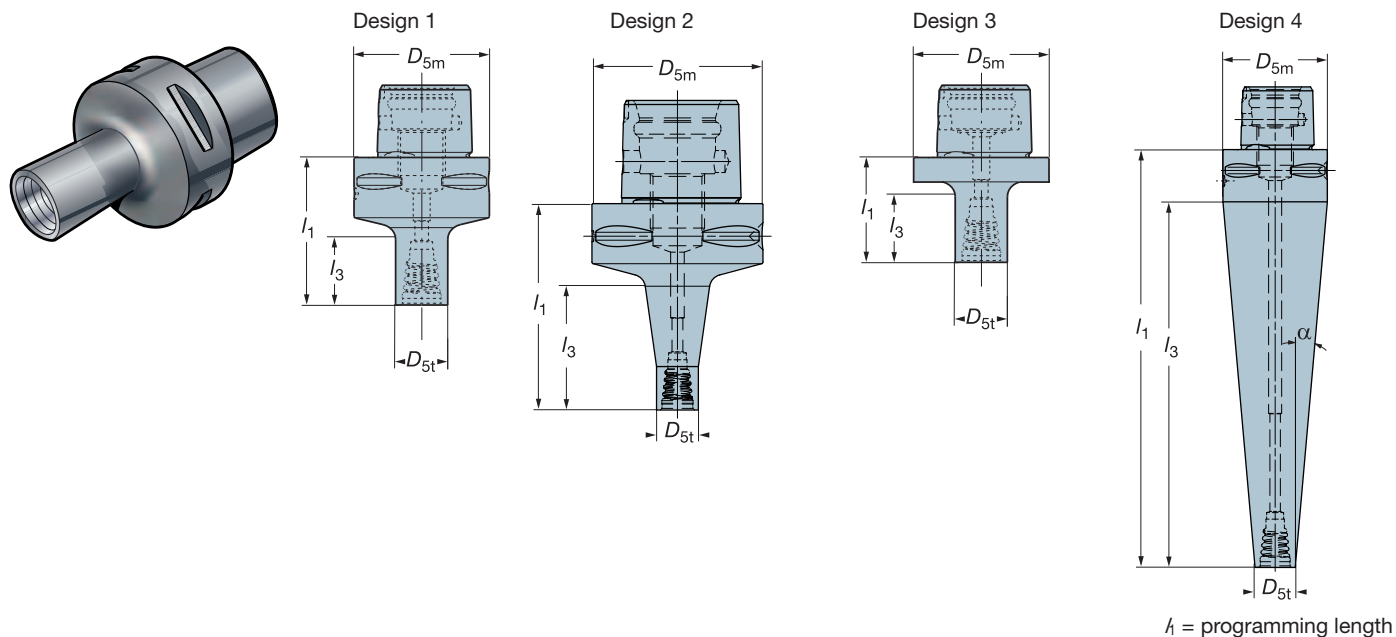


G104

Coromant Capto® adaptor for exchangeable head

Cx-391.EH

Without gripper grooves for manual tool change



Metric version

Coromant Capto size	Coupling size	Ordering code	Design	Coolant ¹⁾	Dimensions, mm					
					D_{5m}	D_{5t}	l_1	l_3	α°	$\frac{Q}{kg}$
C5	E10	C5-391.EH-10 026	3	3	50	9.6	26	13		0.3
		C5-391.EH-10 042	1	3	50	9.6	42	12.8		0.5
		C5-391.EH-10 056	2	3	50	9.6	56	28.1		0.5
	E12	C5-391.EH-12 029	3	3	50	11.6	29	16		0.3
		C5-391.EH-12 045	1	3	50	11.6	45	16		0.5
		C5-391.EH-12 061	2	3	50	11.6	61	33.5		0.5
	E16	C5-391.EH-16 035	3	3	50	15.4	35	22		0.3
		C5-391.EH-16 050	1	3	50	15.4	50	21.5		0.5
		C5-391.EH-16 072	2	3	50	15.4	72	45.3		0.5
	E20	C5-391.EH-16 143	4	3	50	15.4	143	123	8°	1.3
		C5-391.EH-20 047	1	3	50	19.2	47	19		0.5
		C5-391.EH-20 085	2	3	50	19.2	85	59.2		0.6
C6	E10	C5-391.EH-20 130	4	3	50	19.2	130	110	8°	1.2
		C5-391.EH-25 052	1	3	50	24.1	52	24.7		0.5
		C5-391.EH-25 100	2	3	50	24.1	100	75.3		0.8
	E12	C6-391.EH-10 046	1	1	63	9.6	46	13		0.8
		C6-391.EH-10 060	2	1	63	9.6	60	28.4		0.8
		C6-391.EH-12 049	1	1	63	11.6	49	16.3		0.8
	E16	C6-391.EH-12 065	2	1	63	11.6	65	33.8		0.9
		C6-391.EH-16 054	1	1	63	15.4	54	21.8		0.8
		C6-391.EH-16 076	2	1	63	15.4	76	45.6		0.9
	E20	C6-391.EH-20 051	1	1	63	19.2	51	19.3		0.8
		C6-391.EH-20 088	2	1	63	19.2	88	58.4		1.0
C8	E25	C6-391.EH-25 056	1	1	63	24.1	56	25		0.9
		C6-391.EH-25 103	2	1	63	24.1	103	74.5		1.2
	E20	C8-391.EH-20 100	2	1	80	19.2	100	60.2		2.1
		C8-391.EH-25 114	2	1	80	24.1	114	75.3		2.2

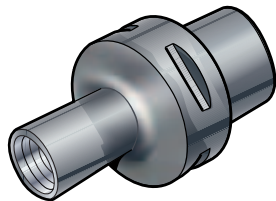
¹⁾ 0 = no coolant, 1 = coolant through centre, 3 = Coolant is possible either through the centre or radially, 6 = coolant through flange, 7 = coolant through centre and through flange



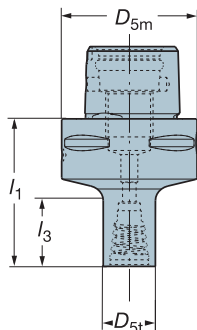
Coromant Capto® adaptor for exchangeable head

Cx-A391.EH

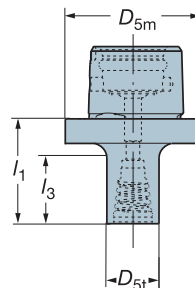
Without gripper grooves for manual tool change



Design 1



Design 3


 l_1 = programming length

Inch version

Coromant Capto size	Coupling size	Ordering code	Design	Coolant ¹⁾	Dimensions, inch				
					D_{5m}	D_{5t}	l_1	l_3	
C3	E10	C3-A391.EH-10 034	1	1	1.260	.360	1.339	.476	0.3
		C3-A391.EH-10 025	3	1	1.260	.360	.984	.472	0.2
	E12	C3-A391.EH-12 039	1	1	1.260	.480	1.535	.689	0.3
		C3-A391.EH-12 031	3	1	1.260	.480	1.220	.709	0.2
C4	E16	C3-A391.EH-16 043	1	1	1.260	.606	1.693	.862	0.3
		C4-A391.EH-10 040	1	1	1.575	.360	1.575	.472	0.6
	E10	C4-A391.EH-10 025	3	1	1.575	.360	.984	.472	0.4
		C4-A391.EH-12 045	1	1	1.575	.480	1.772	.685	0.6
	E12	C4-A391.EH-12 031	3	1	1.575	.480	1.220	.709	0.4
		C4-A391.EH-16 049	1	1	1.575	.606	1.929	.862	0.6
	E16	C4-A391.EH-16 034	3	1	1.575	.606	1.339	.827	0.4
		C4-A391.EH-20 044	1	1	1.575	.724	1.732	.681	0.6
C5	E20	C4-A391.EH-25 052	1	1	1.575	.961	2.047	1.028	0.7
		C5-A391.EH-10 041	1	1	1.968	.360	1.614	.461	1.0
	E10	C5-A391.EH-10 025	3	1	1.968	.360	.984	.472	0.6
		C5-A391.EH-12 047	1	1	1.968	.480	1.850	.713	1.0
	E12	C5-A391.EH-12 031	3	1	1.968	.480	1.220	.709	0.6
		C5-A391.EH-16 050	1	1	1.968	.606	1.968	.846	1.1
	E16	C5-A391.EH-20 045	1	1	1.968	.724	1.772	.665	1.1
		C5-A391.EH-25 053	1	1	1.968	.961	2.087	1.012	1.2
C6	E25	C6-A391.EH-10 045	1	1	2.480	.360	1.772	.470	1.8
		C6-A391.EH-12 050	1	1	2.480	.480	1.968	.685	1.8
	E10	C6-A391.EH-16 054	1	1	2.480	.606	2.126	.858	1.9
		C6-A391.EH-20 049	1	1	2.480	.724	1.929	.677	1.9
	E25	C6-A391.EH-25 057	1	1	2.480	.961	2.244	1.024	2.0

¹⁾ 1 = coolant through centre


J3



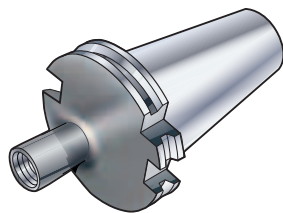
G104

Solid holder for exchangeable head

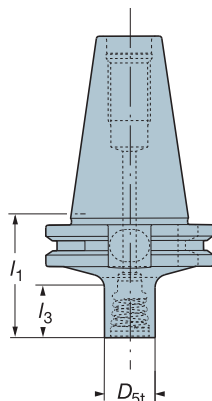
392.140EH

392.55EH

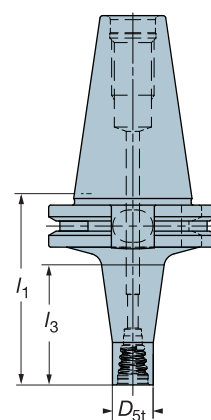
A392.45EH



Design 1



Design 2

 l_1 = programming length

Metric version

		Coupling size				Dimensions, mm					
Machine design	Taper	D_h	Ordering code	Design	Coolant ¹⁾	D_{5t}	l_1	l_3			
ISO7388.1	40	E10	392.140EH-40 10 041	1	1	9.6	41	12.7	0.9		
			392.140EH-40 10 055	2	1	9.6	55	28.1	0.9		
		E12	392.140EH-40 12 044	1	1	11.6	44	16	0.9		
			392.140EH-40 12 060	2	1	11.6	60	33.5	0.9		
		E16	392.140EH-40 16 049	1	1	15.4	49	21.5	0.9		
			392.140EH-40 16 071	2	1	15.4	71	45.3	0.9		
		E20	392.140EH-40 20 046	1	1	19.2	46	19	0.9		
			392.140EH-40 20 084	2	1	19.2	84	59.1	1.0		
		E25	392.140EH-40 25 051	1	1	24.1	51	24.6	0.9		
			392.140EH-40 25 100	2	1	24.1	100	76.3	1.2		
		MAS-BT 403	30	E10	392.55EH-30 10 044	1	1	9.6	44	13.3	0.4
					392.55EH-30 10 057	2	1	9.6	57	27.6	0.4
E12	392.55EH-30 12 046			1	1	11.6	46	15.6	0.4		
	392.55EH-30 12 063			2	1	11.6	63	34.1	0.4		
E16	392.55EH-30 16 041			2	1	15.4	41.3	8	0.4		
	392.55EH-30 16 052			1	1	15.4	52	22.1	0.4		
392.55EH-30 16 056	2			1	15.4	56.3	16	0.5			
392.55EH-30 16 074	2			1	15.4	74	45.9	0.5			
E20	392.55EH-30 20 049			1	1	19.2	49	19.6	0.4		
	392.55EH-30 20 069			2	1	19.2	68.7	25	0.5		
392.55EH-30 20 086	2			1	19.2	86	58.7	0.6			
E25	392.55EH-30 25 054			1	1	24.1	54	25.2	0.5		
	392.55EH-30 25 077			2	1	24.1	77	49.9	0.6		
40	E10			392.55EH-40 10 051	1	1	9.6	51	13	1.1	
			392.55EH-40 10 065	2	1	9.6	65	28.4	1.1		
	E12		392.55EH-40 12 054	1	1	11.6	54	16.3	1.1		
			392.55EH-40 12 070	2	1	11.6	70	33.8	1.1		
	E16		392.55EH-40 16 060	1	1	15.4	60	22.8	1.1		
			392.55EH-40 16 081	2	1	15.4	81	45.6	1.2		
	E20		392.55EH-40 20 056	1	1	19.2	56	19.3	1.1		
			392.55EH-40 20 094	2	1	19.2	94	59.5	1.2		
	E25		392.55EH-40 25 062	1	1	24.1	62	26	1.1		
			392.55EH-40 25 108	2	1	24.1	108	74.5	1.4		

¹⁾ 1 = coolant through centre

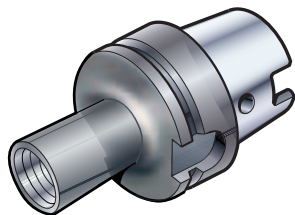
Inch version

Machine design	Taper	Coupling size		Design	Coolant ¹⁾	Dimensions, inch			
		D_{th}	Ordering code			D_{5t}	l_1	l_3	ρ_{lbs}
Steep taper CAT inch -AD central coolant	40	E10	A392.45EH-40 10 056	1	1	.360	2.205	.472	2.3
			A392.45EH-40 10 068	2	1	.360	2.677	1.012	2.3
			A392.45EH-40 12 060	1	1	.480	2.362	.646	2.3
			A392.45EH-40 12 078	2	1	.480	3.071	1.433	2.4
		E16	A392.45EH-40 16 065	1	1	.606	2.559	.858	2.4
			A392.45EH-40 16 086	2	1	.606	3.386	1.776	2.5
			A392.45EH-40 20 060	1	1	.724	2.362	.677	2.4
			A392.45EH-40 20 096	2	1	.724	3.780	2.193	2.6
		E25	A392.45EH-40 25 068	1	1	.961	2.677	1.024	2.5
			A392.45EH-40 25 114	2	1	.961	4.488	3.004	3.1

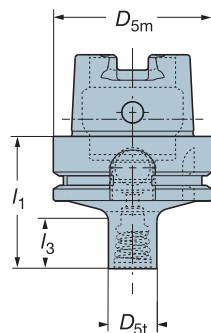
¹⁾ 1 = coolant through centre

HSK holder for exchangeable head

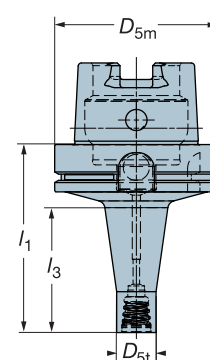
HSK form A/C
392.410EH



Design 1



Design 2



l_1 = programming length

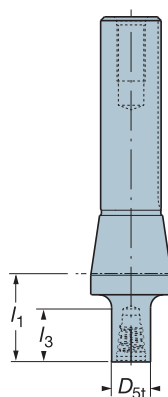
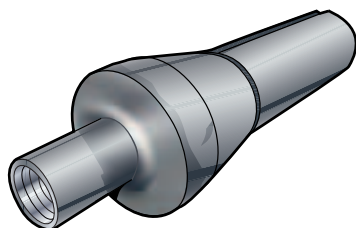
Metric version

HSK size	Coupling size	Ordering code	Design	Coolant ¹⁾	Dimensions, millimeter, inch (mm, in.)									
					D _{5m} mm	D _{5m} in.	D _{5t} mm	D _{5t} in.	l ₁ mm	l ₁ in.	l ₃ mm	l ₃ in.		
63	E10	392.410EH-63 10 049	1	1	63	2.480	9.6	.378	49	1.929	13.5	.532	0.7	
		392.410EH-63 10 062	2	1	63	2.480	9.6	.378	62	2.441	27.9	1.098	0.7	
	E12	392.410EH-63 12 051	1	1	63	2.480	11.6	.457	51	2.008	15.8	.622	0.7	
		392.410EH-63 12 068	2	1	63	2.480	11.6	.457	68	2.677	34.3	1.350	0.7	
	E16	392.410EH-63 16 056	1	1	63	2.480	15.4	.606	56	2.205	21.3	.839	0.7	
		392.410EH-63 16 078	2	1	63	2.480	15.4	.606	78	3.071	45.1	1.776	0.8	
	E20	392.410EH-63 20 053	1	1	63	2.480	19.2	.756	53	2.087	18.8	.740	0.7	
		392.410EH-63 20 091	2	1	63	2.480	19.2	.756	91	3.583	59	2.323	0.8	
	E25	392.410EH-63 25 059	1	1	63	2.480	24.1	.949	59	2.323	25.5	1.004	0.7	
		392.410EH-63 25 105	2	1	63	2.480	24.1	.949	105	4.134	74	2.913	1.0	
100	E20	392.410EH-100 20 100	2	1	100	3.937	19.2	.756	100	3.937	60.3	2.374	2.3	
	E25	392.410EH-100 25 115	2	1	100	3.937	24.1	.949	115	4.528	76.4	3.008	2.5	

¹⁾ 1 = coolant through centre

Bridgeport holder for exchangeable head

A392.R8EH



l_1 = programming length

Inch version

Coupling size	Ordering code	Coolant ¹⁾	Dimensions, inch			
			D_{5t}	l_1	l_3	
E10	A392.R8EH-32 10 025	0	.360	.984	.457	0.9
E12	A392.R8EH-32 12 031	0	.480	1.220	.693	0.9
E16	A392.R8EH-32 16 035	0	.606	1.378	.850	1.0
E20	A392.R8EH-32 20 031	0	.724	1.220	.693	1.0
E25	A392.R8EH-32 25 039	0	.961	1.535	1.016	1.1

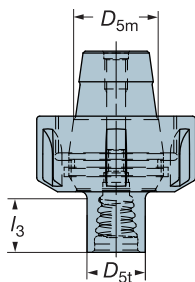
¹⁾ 0 = no coolant

Assortment of exchangeable heads
See page G97



ER integrated collets for exchangeable head

For turning centre and driven tool holders



Key for integrated collet

ER size	Key ³⁾
ER16	5680 096-06
ER20	5680 096-01
ER25	5680 096-02
ER32	5680 096-03

³⁾ To be ordered separately

ER size ²⁾	Coupling size	Ordering code	Coolant ¹⁾	Dimensions, mm				Thread
				D_{5m}	D_{5t}	l_3		
16	E10	392.EREH-16 10 008	1	17	9.6	8	0.1	M22 x 1.5
20		392.EREH-20 10 008	1	21	9.6	8	0.1	M25 x 1.5
25		392.EREH-25 10 012	1	26	9.6	7.2	0.2	M32 x 1.5
32		392.EREH-32 10 012	1	33	9.6	7.6	0.4	M40 x 1.5
16	E12	392.EREH-16 12 010	1	17	11.6	10	0.1	M22 x 1.5
20		392.EREH-20 12 010	1	21	11.6	10	0.1	M25 x 1.5
25		392.EREH-25 12 014	1	26	11.6	10.2	0.2	M25 x 1.5
32		392.EREH-32 12 014	1	33	11.6	9.6	0.4	M32 x 1.5
20	E16	392.EREH-20 16 014	1	21	15.4	14	0.1	M40 x 1.5
25		392.EREH-25 16 016	1	26	15.4	14.2	0.2	M32 x 1.5
32		392.EREH-32 16 018	1	33	15.4	13.6	0.4	M40 x 1.5
25	E20	392.EREH-25 20 019	1	26	19.2	19	0.2	M32 x 1.5
32		392.EREH-32 20 022	1	33	19.2	19.1	0.4	M40 x 1.5
32	E25	392.EREH-32 25 025	1	33	24.1	25	0.4	M40 x 1.5

Inch design for 0.375" heads

ER size ²⁾	Coupling size	Ordering code	Coolant ¹⁾	Dimensions, inch				Thread
				D_{5m}	D_{5t}	l_3		
16	E10	A392.EREH-16 10 007	1	.669	.360	.276	0.2	M22 x 1.5
20		A392.EREH-20 10 007	1	.827	.360	.276	0.3	M25 x 1.5
25		A392.EREH-25 10 011	1	1.024	.360	.244	0.5	M32 x 1.5
32		A392.EREH-32 10 011	1	1.299	.360	.260	0.8	M40 x 1.5

¹⁾ 1 = coolant through centre

²⁾ DIN 6499

Assortment of exchangeable heads

See page G97

Main spare parts



Coupling size	Key	Torque wrench head ¹⁾	Torque wrench head for 2-edge end mill ¹⁾	Torque value		Torque range		
				Nm	In-lbs	Torque wrench ¹⁾	Nm	In-lbs
E10	5680 093-01	5680 089-01	5680 089-06	12	106	5680 088-01	10-20	88-177
E12	5680 093-02	5680 089-02	5680 089-07	15	132	5680 088-01	10-20	88-177
E16	5680 093-03	5680 089-03	5680 089-08	30	265	5680 088-02	25-65	221-575
E20	5680 093-04	5680 089-04		50	442	5680 088-02	25-65	221-575
E25	5680 093-05	5680 089-05		65	575	5680 088-02	25-65	221-575

¹⁾ Accessories, must be ordered separately

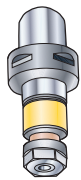
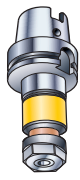
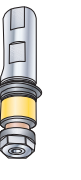
Note!

The nut is not a standard ER nut and therefore not exchangeable with the spare part series 5533 050-0X. The nut is always included in the package!



Tapping holder assortment

SynchroFlex® ER tapping chuck* - for synchronized tapping operations

Coromant Capto®  Page G106	HSK solid holder  Page G108	MAS-BT solid holder  Page G109	Weldon shank holder  Page G110
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To be used with

ER tapping collet, page G142

For through coolant tapping use:

ER sealing disc, page G140

ER collet nut, page G141

Quick change tapping chuck

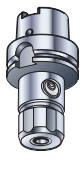
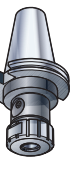
Coromant Capto®  Page G111	HSK solid holder  Page G112	Weldon shank holder  Page G113
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To be used with

Quick change tapping adaptors with friction clutch, page G114

Quick change tapping adaptors without friction clutch, page G115

Floating rubber collet chuck

Coromant Capto®  Page G116	HSK solid holder  Page G117	CAT-V solid holder  Page G118
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To be used with

Rubber collets, page G118

For ordering of taps, see separate Tap catalogue, C-2900:139.

* SynchroFlex is a registered trademark of Tapmatic Corp.,USA

SynchroFlex® ER tapping chuck

for synchronized tapping operations

Coromant Capto®

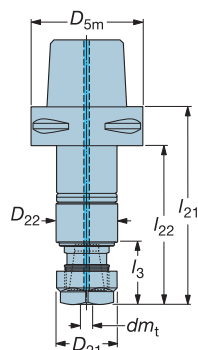
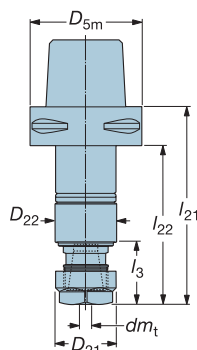
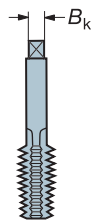
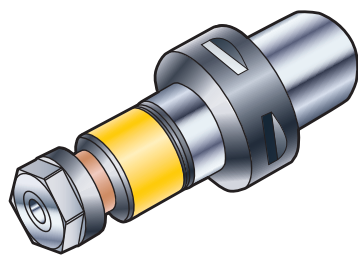
391.62 / 391.63

Cx-391.62

Without through coolant

Cx-391.63

With through coolant



Accessories

ER tapping collets

Not delivered with the tool, must be ordered separately.



393.14

See page G142.

* SynchroFlex is a registered trademark of Tapmatic Corp., USA

Tap range		Coupling size	Ordering code	Collet size	Coolant ¹⁾	Tap shank dimensions, mm, inch		Dimensions, mm, inch									
min	max					B _k min	B _k max	D _{5m}	dm _t min	dm _t max	D ₂₁	D ₂₂	l ₂	l ₁	l ₂	l ₃	Ⓚ
M2	M5	C3	C3-391.63-11 078	ER 11	1	2.0	4.9	32	2.8	6	18.7	23.5	23.5	78	63	0.3	
						.083	.193	1.260	.110	.236	.736	.925	.925	3.071	2.480		
M4	M12		C3-391.63-20 105	ER 20	1	3.15	8	32	4	10	34	35	40.5	105		0.6	
						.124	.315	1.260	.157	.394	1.339	1.378	1.594	4.134			
M4	M12	C4	C4-391.62-20 107	ER 20	0	3.15	8	40	4	10	34	35	35.4	106.5	86.5	0.7	
						.124	.315	1.575	.157	.394	1.339	1.378	1.394	4.193	3.406		
M8	M20		C4-391.62-25 126	ER 25	0	6.2	12	40	8	16	42	44	37	125.9	105.9	1.1	
						.244	.472	1.575	.315	.630	1.654	1.732	1.457	4.957	4.169		
M2	M5		C4-391.63-11 080	ER 11	1	2.1	4.9	40	2.8	6	18.7	23.5	23.5	80	60	0.4	
						.083	.193	1.575	.110	.236	.736	.925	.925	3.150	2.362		
M4	M12		C4-391.63-20 112	ER 20	1	3.15	8	40	4	10	34	35	40.5	111.6	91.6	0.7	
						.124	.315	1.575	.157	.394	1.339	1.378	1.594	4.394	3.606		
M8	M20		C4-391.63-25 131	ER 25	1	6.2	12	40	8	16	42	44	42.2	131.1	111.1	1.1	
						.244	.472	1.575	.315	.630	1.654	1.732	1.661	5.161	4.374		
M4	M12	C5	C5-391.62-20 109	ER 20	0	3.15	8	50	4	10	34	35	35.4	108.5	88.5	0.9	
						.124	.315	1.968	.157	.394	1.339	1.378	1.394	4.272	3.484		
M8	M20		C5-391.62-25 128	ER 25	0	6.2	12	50	8	16	42	44	37	127.9	107.9	1.3	
						.244	.472	1.968	.315	.630	1.654	1.732	1.457	5.035	4.248		
M16	M30		C5-391.62-40 158	ER 40	0	9	18	50	12	22	63	62	43	157.5	137.5	2.6	
						.354	.709	1.968	.472	.866	2.480	2.441	1.693	6.201	5.413		
M4	M12		C5-391.63-20 114	ER 20	1	3.15	8	50	4	10	34	35	40.5	113.6	93.6	0.9	
						.124	.315	1.968	.157	.394	1.339	1.378	1.594	4.472	3.685		
M8	M20		C5-391.63-25 133	ER 25	1	6.2	12	50	8	16	42	44	42.2	133.1	113.1	1.3	
						.244	.472	1.968	.315	.630	1.654	1.732	1.661	5.240	4.453		
M16	M30		C5-391.63-40 163	ER 40	1	9	18	50	12	22	63	62	48	162.5	142.5	2.7	
						.354	.709	1.968	.472	.866	2.480	2.441	1.890	6.398	5.610		
M4	M12	C6	C6-391.62-20 113	ER 20	0	3.15	8	63	4	10	34	35	35.4	112.5	90.5	1.2	
						.124	.315	2.480	.157	.394	1.339	1.378	1.394	4.429	3.563		
M8	M20		C6-391.62-25 132	ER 25	0	6.2	12	63	8	16	42	44	37	131.9	109.9	1.6	
						.244	.472	2.480	.315	.630	1.654	1.732	1.457	5.193	4.327		
M16	M30		C6-391.62-40 162	ER 40	0	9	18	63	12	22	63	62	43	161.5	139.5	3.0	
						.354	.709	2.480	.472	.866	2.480	2.441	1.693	6.358	5.492		
M4	M12		C6-391.63-20 118	ER 20	1	3.15	8	63	4	10	34	35	40.5	117.6	95.6	1.3	
						.124	.315	2.480	.157	.394	1.339	1.378	1.594	4.630	3.764		
M8	M20		C6-391.63-25 137	ER 25	1	6.2	12	63	8	16	42	44	42.2	137.1	115.1	1.7	
						.244	.472	2.480	.315	.630	1.654	1.732	1.661	5.398	4.532		
M16	M30		C6-391.63-40 167	ER 40	1	9	18	63	12	22	63	62	48	166.5	144.5	3.1	
						.354	.709	2.480	.472	.866	2.480	2.441	1.890	6.555	5.689		

¹⁾ 0 = no coolant, 1 = coolant through centre

Continued ...



G181

SynchroFlex® ER tapping chuck

for synchronized tapping operations

Coromant Capto®

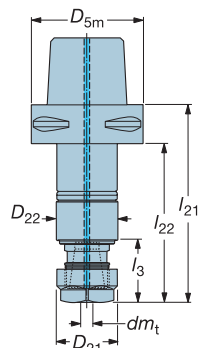
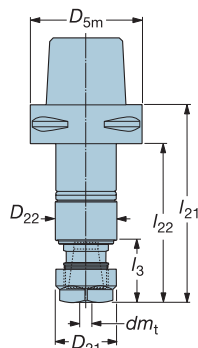
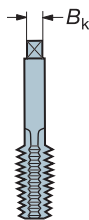
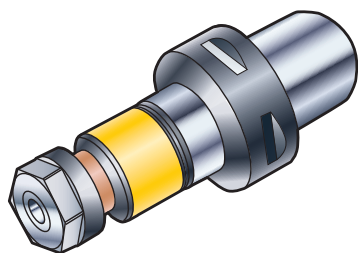
391.62 / 391.63

Cx-391.62

Without through coolant

Cx-391.63

With through coolant



Accessories

ER tapping collets

Not delivered with the tool, must be ordered separately.



393.14

See page G142.

... Continued

* SynchroFlex is a registered trademark of Tapmatic Corp., USA

Tap range						Tap shank dimensions, mm, inch		Dimensions, mm, inch									
min	max	Coupling size	Ordering code	Collet size	Coolant ¹⁾	B _k min	B _k max	D _{5m}	d _m min	d _m max	D ₂₁	D ₂₂	l ₃	l ₂₁	l ₂₂		
M4	M12	C8	C8-391.62-20 107	ER 20	0	3.15	8	80	4	10	34	35	35.4	106.5	76.5	2.1	
						.124	.315	3.150	.157	.394	1.339	1.378	1.394	4.193	3.012		
M8	M20		C8-391.62-25 126	ER 25	0	6.2	12	80	8	16	42	44	37	125.9	95.9	2.5	
						.244	.472	3.150	.315	.630	1.654	1.732	1.457	4.957	3.776		
M16	M30		C8-391.62-40 156	ER 40	0	9	18	80	12	22	63	62	43	155.5	125.5	3.9	
						.354	.709	3.150	.472	.866	2.480	2.441	1.693	6.122	4.941		
M4	M12		C8-391.63-20 112	ER 20	1	3.15	8	80	4	10	34	35	40.5	111.6	81.6	2.2	
						.124	.315	3.150	.157	.394	1.339	1.378	1.594	4.394	3.213		
M8	M20		C8-391.63-25 131	ER 25	1	6.2	12	80	8	16	42	44	42.2	131.1	101.1	2.6	
						.244	.472	3.150	.315	.630	1.654	1.732	1.661	5.161	3.980		
M16	M30		C8-391.63-40 161	ER 40	1	9	18	80	12	22	63	62	48	160.5	130.5	4.0	
						.354	.709	3.150	.472	.866	2.480	2.441	1.890	6.319	5.138		
M8	M20	C10	C10-391.63-25 143	ER 25	1	6.2	12	100	8	16	42	44	42.2	143.1	107.1	4.1	
						.244	.472	3.937	.315	.630	1.654	1.732	1.661	5.634	4.216		
M16	M30		C10-391.63-40 173	ER 40	1	9	18	100	12	22	63	62	48.5	172.5	136.5	5.2	
						.354	.709	3.937	.472	.866	2.480	2.441	1.909	6.791	5.374		

¹⁾ 0 = no coolant, 1 = coolant through centre



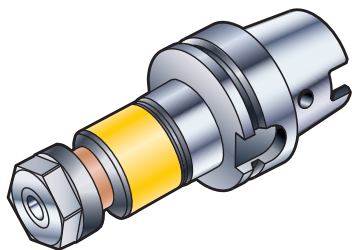
G181

SynchroFlex® ER tapping chuck

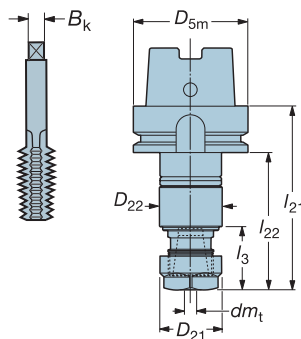
for synchronized tapping operations

HSK form A/C

392.41062 / 392.41063

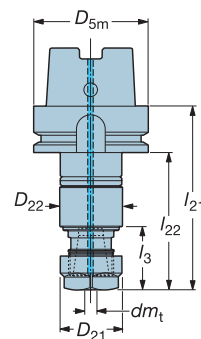


Without through coolant



392.41062

With through coolant



392.41063

Accessories

ER tapping collets

Not delivered with the tool, must be ordered separately.



393.14

See page G142.

* SynchroFlex is a registered trademark of Tapmatic Corp.,USA

Tap range		HSK size	Ordering code	Collet size	Coolant ¹⁾	Tap shank dimensions, mm, inch		Dimensions, mm, inch											
min	max					B _k min	B _k max	D _{5m}	dm min	dm max	D ₂₁	D ₂₂	l ₃	l ₂₁	l ₂₂	l ₃	l ₂₁	l ₂₂	l ₃
M4	M12	63	392.41062-63 20 102	ER 20	0	3.15	8	63	4	10	34	35	35.4	102.9	76.9	1.0			
						.124	.315	2.480	.157	.394	1.339	1.378	1.394	4.051	3.028				
M8	M20		392.41062-63 25 122	ER 25	0	6.2	12	63	8	16	42	44	37	122.3	96.3	1.4			
						.244	.472	2.480	.315	.630	1.654	1.732	1.457	4.815	3.791				
M16	M30		392.41062-63 40 152	ER 40	0	9	18	63	12	22	63	62	43	151.9	125.9	2.8			
						.354	.709	2.480	.472	.866	2.480	2.441	1.693	5.980	4.957				
M4	M12		392.41063-63 20 107	ER 20	1	3.15	8	63	4	10	34	35	40.5	108	82	1.1			
						.124	.315	2.480	.157	.394	1.339	1.378	1.594	4.252	3.228				
M8	M20		392.41063-63 25 127	ER 25	1	6.2	12	63	8	16	42	44	42.2	127.5	101.5	1.5			
						.244	.472	2.480	.315	.630	1.654	1.732	1.661	5.020	3.996				
M16	M30		392.41063-63 40 157	ER 40	1	9	18	63	12	22	63	62	48	157.4	131.4	2.8			
						.354	.709	2.480	.472	.866	2.480	2.441	1.890	6.197	5.173				
M16	M30	100	392.41062-100 40 159	ER 40	0	9	18	100	12	22	63	62	43	158.4	129.4	4.2			
						.354	.709	3.937	.472	.866	2.480	2.441	1.693	6.236	5.094				
M4	M12		392.41062-10020109	ER 20	0	3.15	8	100	4	10	34	35	35.4	109.4	80.4	2.4			
						.124	.315	3.937	.157	.394	1.339	1.378	1.394	4.307	3.165				
M8	M20		392.41062-10025129	ER 25	0	6.2	12	100	8	16	42	44	37	128.8	99.8	2.8			
						.244	.472	3.937	.315	.630	1.654	1.732	1.457	5.071	3.929				
M16	M30		392.41063-100 40 164	ER 40	1	9	18	100	12	22	63	62	48	163.4	134.4	4.3			
						.354	.709	3.937	.472	.866	2.480	2.441	1.890	6.433	5.291				
M4	M12		392.41063-10020114	ER 20	1	3.15	8	100	4	10	34	35	40.5	114.5	85.5	2.5			
						.124	.315	3.937	.157	.394	1.339	1.378	1.594	4.508	3.366				
M8	M20		392.41063-10025134	ER 25	1	6.2	12	100	8	16	42	44	42.2	134	105	2.9			
						.244	.472	3.937	.315	.630	1.654	1.732	1.661	5.276	4.134				

¹⁾ 0 = no coolant, 1 = coolant through centre



G181

SynchroFlex® ER tapping chuck

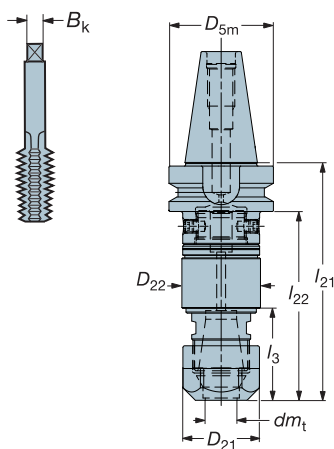
MAS-BT 403

for synchronized tapping operations

392.5563



With through coolant



392.5563

Accessories

ER tapping collets

Not delivered with the tool, must be ordered separately.



393.14

See page G142.

* SynchroFlex is a registered trademark of Tapmatic Corp.,USA

Metric version

Tap range				Tap shank		Dimensions, mm										
min	max	Ordering code	Coolant ¹⁾	B_k min	B_k max	D_{5m}	d_{m1} min	d_{m1} max	D_{21}	d_{22}	l_3	l_{21}	l_{22}		Collet size	
M2	M5	392.5563-30 11 082	1	2.0	4.9	31.75	2.8	6.0	18.7	23.5	23.5	82	60	0.6	ER 11	
M4	M12	392.5563-30 20 105	1	3.15	8	31.75	4	10.0	34.0	35.0	40.5	105	83	0.8	ER 20	
M8	M20	392.5563-30 25 125	1	6.2	12	31.75	8	16.0	42.0	44.0	42.2	124.6	102.6	1.2	ER 25	

¹⁾ 0 = no coolant, 1 = coolant through centre



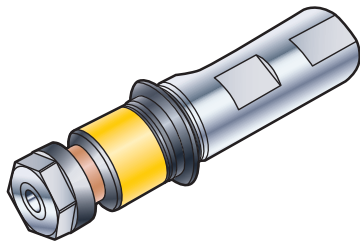
G182

SynchroFlex® ER tapping chuck

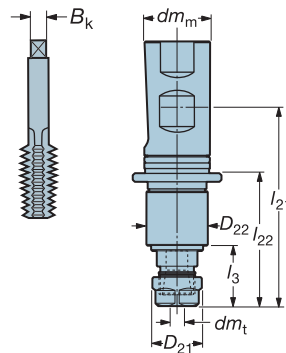
for synchronized tapping operations

Weldon/Whistle Notch

393.2062 / 393.2063

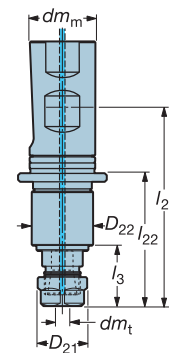


Without through coolant



393.2062

With through coolant



393.2063

Accessories

ER tapping collets

Not delivered with the tool, must be ordered separately.



* SynchroFlex is a registered trademark of Tapmatic Corp., USA

393.14

Metric version

See page G142.

Tap range		Shank size				Tap shank		Dimensions, mm												
min	max	dm_m	Ordering code	Coolant ¹⁾	B_k min	B_k max	dm_k min	dm_k max	D_{21}	d_{22}	l_1	l_3	l_{21}	l_{22}		Collet size				
M2	M5	16	393.2062-16 11 051	0	2.0	4.9	2.8	6.0	18.7	23.5	75.4	23.5	75.4	51.4	0.2	ER 11				
M2	M5	20	393.2062-20 11 051	0	2.0	4.9	2.8	6.0	18.7	23.5	75.4	23.5	75.9	51	0.2	ER 11				
M4	M12	20	393.2063-20 20 068	1	3.15	8	4	10.0	34.0	35.0	92.6	40.5	93.6	68.6	0.3	ER 20				
M2	M5	25	393.2062-25 11 051	0	2.1	4.9	2.8	6.0	18.7	23.5	75.4	23.5	75.4	51.4	0.3	ER 11				
M4	M12	25	393.2062-25 20 063	0	3.15	8	4	10.0	34.0	35.0	87.5	35.3	87.5	63.5	0.4	ER 20				
M8	M20	25	393.2062-25 25 083	0	6.2	12	8	16.0	42.0	44.0	106.9	36.9	106.9	82.9	0.8	ER 25				
M4	M12	25	393.2063-25 20 068	1	3.15	8	4	10.0	34.0	35.0	92.6	40.5	92.6	68.6	0.4	ER 20				
M8	M20	25	393.2063-25 25 088	1	6.2	12	8	16.0	42.0	44.0	112.1	42.2	112.1	88.1	0.8	ER 25				
M16	M30	25	393.2063-25 40 117	1	9	18	12	22.0	63.0	62.0	92.6		141.2	117	2.1	ER 40				

¹⁾ 0 = no coolant, 1 = coolant through centre

Inch version

Tap range		Shank size			Tap shank		Dimensions, inch												
min	max	dm_m	Ordering code	Coolant ¹⁾	B_k min	B_k max	dm min	dm max	D_{21}	d_{22}	l_1	l_3	l_{21}	l_{22}		Collet size			
M2	M5	1	A393.2062-25 11 051	0	.0827	.1929	.110	.236	.736	.925	3.165	.925	3.165	2.024	0.7	ER 11			
M4	M12	1	A393.2062-25 20 063	0	.124	.315	.157	.394	1.339	1.378	3.642	1.390	3.642	2.500	0.9	ER 20			
M8	M20	1	A393.2062-25 25 083	0	.2441	.4724	.315	.630	1.654	1.732	4.402	1.453	4.402	3.264	1.8	ER 25			
M4	M12	1	A393.2063-25 20 068	1	.124	.315	.157	.394	1.339	1.378	3.842	1.594	3.842	2.701	0.9	ER 20			
M8	M20	1	A393.2063-25 25 088	1	.2441	.4724	.315	.630	1.654	1.732	4.610	1.661	4.610	3.468	1.8	ER 25			

¹⁾ 0 = no coolant, 1 = coolant through centre

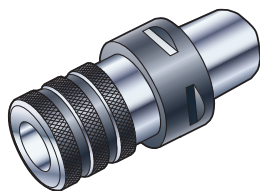


G184

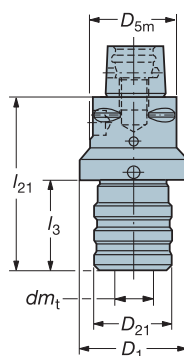
Quick change tapping chuck

Coromant Capto®

391.60/391.61

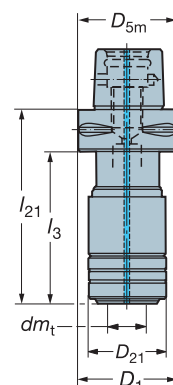


Without coolant through



Cx-391.60

With coolant through



Cx-391.61

Tap range		Dimensions, mm, inch													
min	max	dm_t	Coupling size	Ordering code	Coolant ¹⁾	D_{5m}	D_1	D_{21}	l_1	l_2	l_{21}	- z	+ z	$\frac{kg}{kg}$	Nm ²⁾
M3	M12	19 .748	C3	C3-391.60-01 080A	0	32	50	36	80	40.5	80	7.5	7.5	0.4	35
						1.260	1.968	1.417	3.150	1.594	3.150				
M3	M12	19 .748	C4	C4-391.60-01 080A	0	40	50	36	80	40.5	80	7.5	7.5	0.7	35
						1.575	1.968	1.417	3.150	1.594	3.150				
M8	M20	31 1.220		C4-391.60-02 110A	0	40	63	53	110	64.5	110	12.5	12.5	1.4	110
						1.575	2.480	2.087	4.331	2.539	4.331				
M3	M12	19 .748		C4-391.61-01 096	1	40	40	39	96	75	96	7.5	7.5	1.1	35
						1.575	1.575	1.535	3.780	2.953	3.780				
M3	M12	19 .748	C5	C5-391.60-01 080A	0	50	50	36	80	40.5	80	7.5	7.5	1.0	35
						1.968	1.968	1.417	3.150	1.594	3.150				
M8	M20	31 1.220		C5-391.60-02 115A	0	50	63	53	115	64.5	115	12.5	12.5	1.7	110
						1.968	2.480	2.087	4.528	2.539	4.528				
M3	M12	19 .748		C5-391.61-01 097	1	50	50	39	97	76	97	7.5	7.5	1.1	35
						1.968	1.968	1.535	3.819	2.992	3.819				
M8	M20	31 1.220		C5-391.61-02 129	1	50	63	53	129	64.5	129	10	10	2.1	110
						1.968	2.480	2.087	4.724	2.539	4.724				
M3	M12	19 .748	C6	C6-391.60-01 090A	0	63	50	36	90	40.5	90	7.5	7.5	1.4	35
						2.480	1.968	1.417	3.543	1.594	3.543				
M8	M20	31 1.220		C6-391.60-02 120A	0	63	63	53	120	64.5	120	12.5	12.5	2.3	110
						2.480	2.480	2.087	4.724	2.539	4.724				
M14	M33	48 1.890		C6-391.60-03 170A	0	63	78	170	170	170	170	20	20	3.5	500
						2.480	3.071	6.693	6.693	6.693	6.693				
M8	M20	31 1.220		C6-391.61-02 131	1	63	63	60	131	108	131	10	10	2.4	110
						2.480	2.480	2.362	5.158	4.252	5.158				
M14	M33	48 1.890		C6-391.61-03 196	1	63	86	196	196	196	196	17.5	17.5	4.5	500
						2.480	3.386	7.716	7.716	7.716	7.716				
M3	M12	19 .748	C8	C8-391.60-01 085A	0	80	80	36	85	40.5	85	7.5	7.5	2.3	35
						3.150	3.150	1.417	3.346	1.594	3.346				
M8	M20	31 1.220		C8-391.60-02 110A	0	80	63	53	110	64.5	110	12.5	12.5	3.2	110
						3.150	2.480	2.087	4.331	2.539	4.331				
M14	M33	48 1.890		C8-391.60-03 160A	0	80	80	78	160	129	160	20	20	3.7	500
						3.150	3.150	3.071	6.299	5.079	6.299				

¹⁾ 0 = no coolant, 1 = coolant through centre

²⁾ Tightening torque Nm.

Recommendations:

In order to get the best result from machines not intended for synchronized tapping operations, the following recommendations should be observed.

- Program machine feed 10% lower than theoretical value (thread pitch rpm). This enables the tap to cut precisely on pitch.
- Reduce tapping depth by 10% to avoid tap breakage.
- Observe that when tapping deep holes in soft materials e.g. aluminium, feed and depth should only be reduced by 3-5%.

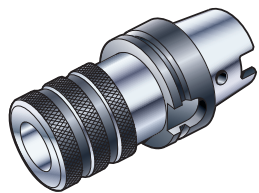


G185

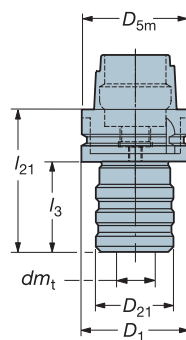
Quick change tapping chuck

HSK form A/C

392.41060 / 392.41061

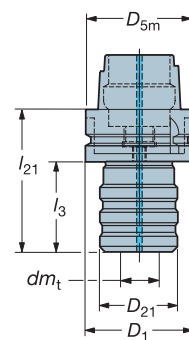


Without through coolant



392.41060

With through coolant



392.41061

Tap range						Dimensions, mm, inch						
min	max	d_m	Coupling size	Ordering code	Coolant ¹⁾	D_m	D_1	D_{21}	l_2	l_1		Nm ²⁾
M3	M12	19 .748	63	392.41060-6301072	0	63 2.480	63 2.480	39 1.535	46 1.811	72 2.835	0.9	35
M8	M20	31 1.220		392.41060-6302110	0	63 2.480	63 2.480	60 2.362	84 3.307	110 4.331	1.8	110
M14	M33	48 1.890		392.41060-6303141	0	63 2.480	63 2.480	86 3.386	115 4.528	141 5.551	3.3	500
M3	M12	19 .748	100	392.41060-10001080	0	100 3.937	100 3.937	39 1.535	50.5 1.988	80 3.150	2.3	35
M14	M20	31 1.220		392.41060-10002100	0	100 3.937	100 3.937	60 2.362	71 2.795	100 3.937	3.0	110
M14	M33	48 1.890		392.41060-10003144	0	100 3.937	100 3.937	86 3.386	115 4.528	144 5.669	4.9	500
M3	M12	19 .748	63	392.41061-6301105	1	63 2.480	63 2.480	39 1.535	79 3.110	105 4.134	1.1	35
M8	M20	31 1.220		392.41061-6302140	1	63 2.480	63 2.480	60 2.362	114 4.488	140 5.512	2.3	110
M14	M33	48 1.890		392.41061-6303203	1	63 2.480	86 3.386	86 3.386	177 6.968	203 7.992	5.4	500
M3	M12	19 .748	100	392.41061-10001112	1	100 3.937	100 3.937	39 1.535	83 3.268	112 4.409	2.5	35
M8	M20	31 1.220		392.41061-10002144	1	100 3.937	100 3.937	60 2.362	115 4.528	144 5.669	3.7	110
M14	M33	48 1.890		392.41061-10003210	1	100 3.937	100 3.937	86 3.386	181 7.126	210 8.268	7.3	500

¹⁾ 0 = no coolant, 1 = coolant through centre

²⁾ Max torque, Nm

For Quick change tapping adaptors, see page G114.

Recommendations:

In order to get the best result from machines not intended for synchronized tapping operations, the following recommendations should be observed.

- Program machine feed 10% lower than theoretical value (thread pitch rpm). This enables the tap to cut precisely on pitch.
- Reduce tapping depth by 10% to avoid tap breakage.
- Observe that when tapping deep holes in soft materials e.g. aluminium, feed and depth should only be reduced by 3-5%.

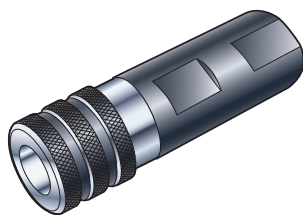


G185

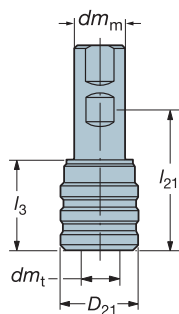
Quick change tapping chuck

Weldon shank

393.2060 / 393.2061

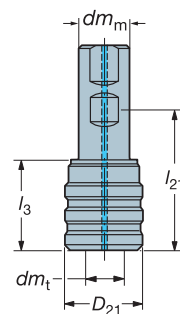


Without through coolant



393.2060

With through coolant



393.2061

Metric shank

Tap range						Length compensation, mm		Dimensions, mm				
min	max	dm_t	Coupling size, dm_m	Ordering code	Coolant ¹⁾	Compression/	Expansion	D_{21}	l_3	l_{21}		Nm ²⁾
M3	M12	19	25	393.2060-25 01 045	0	7.5		39	45	66	0.54	35
M8	M20	31		393.2060-25 02 068	0	10		60	68	89	1.61	110
M3	M12	19		393.2061-25 01 062	1	7.5		39	62	83	0.54	35
M8	M20	31		393.2061-25 02 098	1	10		60	98	119	1.61	110
M14	M33	48	32	393.2060-32 03 099	0	17.5		86	99	123	4.6	500
M14	M33	48		393.2061-32 03 147	1	17.5		86	147	171	4.55	500

¹⁾ 0 = no coolant, 1 = coolant through centre

²⁾ Max torque, Nm

For Quick change tapping adaptors, see page G114.

Recommendations:

In order to get the best result from machines not intended for synchronized tapping operations, the following recommendations should be observed.

- Program machine feed 10% lower than theoretical value (thread pitch rpm). This enables the tap to cut precisely on pitch.
- Reduce tapping depth by 10% to avoid tap breakage.
- Observe that when tapping deep holes in soft materials e.g. aluminium, feed and depth should only be reduced by 3-5%.



G185

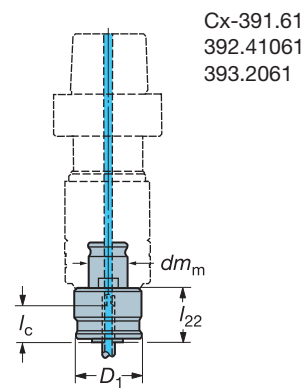
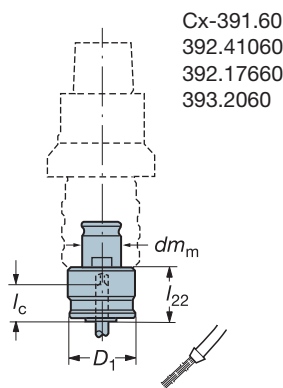
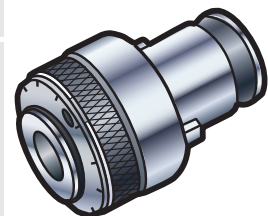
Quick change tapping adaptor

with friction clutch and for external and internal coolant supply

393.03-SES

External coolant supply

Internal coolant supply



Metric version

Shank type	Tap shank, mm	Preset for ¹⁾	dm_m	Ordering code	Dimensions, mm			
					D_1	l_c	l_{22}	α_{22}
Tapshank DIN	3.50 x 2.70	M3	19	393.03-SES1 D035X027	32.5	17	25	0.2
	4.00 x 3.00	M3.5	19	393.03-SES1 D040X030	32.5	17	25	0.2
	4.50 x 3.40	M4	19	393.03-SES1 D045X034	32.5	17	25	0.2
	6.00 x 4.90	M8	19	393.03-SES1 D060X049	32.5	17	25	0.2
	7.00 x 5.50	M10	19	393.03-SES1 D070X055	32.5	17	25	0.2
	8.00 x 6.20	M8	19	393.03-SES1 D080X062	32.5	17	25	0.2
	9.00 x 7.00	M12	19	393.03-SES1 D090X070	32.5	17	25	0.2
	6.00 x 4.90	M8	31	393.03-SES2 D060X049	50.5	30	34	0.6
	7.00 x 5.50	M10	31	393.03-SES2 D070X055	50.5	30	34	0.6
	8.00 x 6.20	M8	31	393.03-SES2 D080X062	50.5	30	34	0.6
	9.00 x 7.00	M12	31	393.03-SES2 D090X070	50.5	30	34	0.6
	11.00 x 9.00	M14	31	393.03-SES2 D110X090	50.5	30	34	0.6
	12.00 x 9.00	M14	31	393.03-SES2 D120X090	50.5	30	34	0.6
	14.00 x 11.00	M18	31	393.03-SES2 D140X110	50.5	30	34	0.6
	16.00 x 12.00	M20	31	393.03-SES2 D160X120	50.5	30	34	0.6
	11.00 x 9.00	M14	48	393.03-SES3 D110X090	72	44	45	1.7
	12.00 x 9.00	M16	48	393.03-SES3 D120X090	72	44	45	1.7
	14.00 x 11.00	M18	48	393.03-SES3 D140X110	72	44	45	1.7
	16.00 x 12.00	M20	48	393.03-SES3 D160X120	72	44	45	1.7
	18.00 x 14.50	M24	48	393.03-SES3 D180X145	72	44	45	1.7
	22.00 x 18.00	M30	48	393.03-SES3 D220X180	72	44	45	1.7
Tapshank ISO	3.15 x 2.50	M4	19	393.03-SES1 D031X025	32.5	17	25	0.2
	4.00 x 3.15	M5	19	393.03-SES1 D040X031	32.5	17	25	0.2
	4.50 x 3.55	M6	19	393.03-SES1 D045X035	32.5	17	25	0.2
	5.00 x 4.00	M5	19	393.03-SES1 D050X040	32.5	17	25	0.2
	6.30 x 5.00	M8	19	393.03-SES1 D063X050	32.5	17	25	0.2
	8.00 x 6.30	M8	19	393.03-SES1 D080X063	32.5	17	25	0.2
	9.00 x 7.10	M12	19	393.03-SES1 D090X071	32.5	17	25	0.2
	10.00 x 8.00	M10	19	393.03-SES1 D100X080	32.5	17	25	0.2
	8.00 x 6.30	M8	31	393.03-SES2 D080X063	50.5	30	34	0.6
	9.00 x 7.10	M12	31	393.03-SES2 D090X071	50.5	30	34	0.6
	10.00 x 8.00	M10	31	393.03-SES2 D100X080	50.5	30	34	0.6
	11.20 x 9.00	M14	31	393.03-SES2 D112X090	50.5	30	34	0.6
	12.50 x 10.00	M16	31	393.03-SES2 D125X100	50.5	30	34	0.6
	14.00 x 11.20	M18	31	393.03-SES2 D140X112	50.5	30	34	0.6
	11.20 x 9.00	M14	48	393.03-SES3 D112X090	72	44	45	1.7
	14.00 x 11.20	M20	48	393.03-SES3 D140X112	72	44	45	1.7
	16.00 x 12.50	M22	48	393.03-SES3 D160X125	72	44	45	1.7
	18.00 x 14.00	M24	48	393.03-SES3 D180X140	72	44	45	1.7
	20.00 x 16.00	M27	48	393.03-SES3 D200X160	72	44	45	1.7
	25.00 x 20.00	M33	48	393.03-SES3 D250X200	72	44	45	1.7

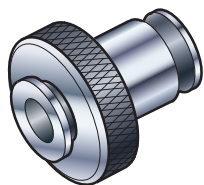
¹⁾ For more technical information, see our Metalcutting Technical guide

For cutting data, follow tap manufacturer's recommendations.

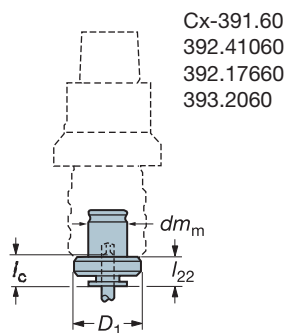
Quick change tapping adaptor

without friction clutch and for external and internal coolant supply

393.03-SE

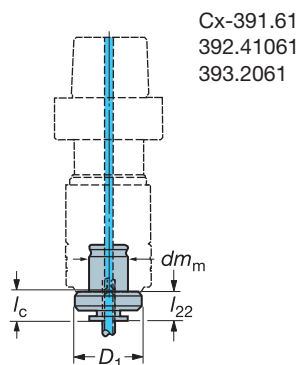


External coolant supply



393.03-SE

Internal coolant supply



393.03-SE

Metric version

Shank type	Øx□	Tap shank, mm	dm _m	Ordering code	Dimensions, mm			
					D ₁	l _c	l ₂₂	kg
Tapshank DIN		4.50 x 3.40	19	393.03-SE1 D045X034	30	17	7	0.1
		6.00 x 4.90	19	393.03-SE1 D060X049	30	17	7	0.1
		7.00 x 5.50	19	393.03-SE1 D070X055	30	17	7	0.1
		8.00 x 6.20	19	393.03-SE1 D080X062	30	17	7	0.1
		9.00 x 7.00	19	393.03-SE1 D090X070	30	17	7	0.1
		6.00 x 4.90	31	393.03-SE2 D060X049	48	30	11	0.1
		7.00 x 5.50	31	393.03-SE2 D070X055	48	30	11	0.3
		8.00 x 6.20	31	393.03-SE2 D080X062	48	30	11	0.3
		9.00 x 7.00	31	393.03-SE2 D090X070	48	30	11	0.3
		11.00 x 9.00	31	393.03-SE2 D110X090	48	30	11	0.3
		12.00 x 9.00	31	393.03-SE2 D120X090	48	30	11	0.3
		14.00 x 11.00	31	393.03-SE2 D140X110	48	30	11	0.3
Tapshank ISO		16.00 x 12.00	31	393.03-SE2 D160X120	48	30	11	0.3
		3.15 x 2.24 (rare)	19	393.03-SE1 D0315X022	30	17	7	0.1
		4.00 x 3.15	19	393.03-SE1 D040X031	30	17	7	0.1
		5.00 x 4.00	19	393.03-SE1 D050X040	30	17	7	0.1
		6.30 x 5.00	19	393.03-SE1 D063X050	30	17	7	0.1
		8.00 x 6.30	19	393.03-SE1 D080X063	30	17	7	0.1
		9.00 x 7.10	19	393.03-SE1 D090X071	30	17	7	0.1
		10.00 x 8.00	19	393.03-SE1 D100X080	30	17	7	0.1
		6.30 x 5.00	31	393.03-SE2 D063X050	48	30	11	0.1
		8.00 x 6.30	31	393.03-SE2 D080X063	48	30	11	0.3
		9.00 x 7.10	31	393.03-SE2 D090X071	48	30	11	0.3
		10.00 x 8.00	31	393.03-SE2 D100X080	48	30	11	0.3
		11.20 x 9.00	31	393.03-SE2 D112X090	48	30	11	0.3
		12.50 x 10.00	31	393.03-SE2 D125X100	48	30	11	0.3
		14.00 x 11.20	31	393.03-SE2 D140X112	48	30	11	0.3

For cutting data, follow tap manufacturer's recommendations.

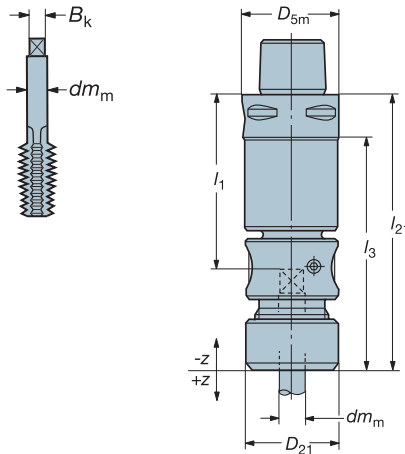
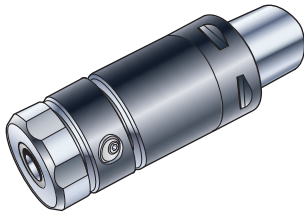
Floating rubber collet chuck

Coromant Capto

391.60B

"Slim" design, floating (for machining centres)

External coolant supply



Tap range		Coupling size	Ordering code	Coolant ¹⁾	Tap shank mm, inch				Dimensions, mm, inch								
min	max				B_k min	max	dm_m min	max	D_{5m}	D_{21}	l_1	l_3	l_{21}	- z	+ z		Nm ²⁾
M5	M12	C3	C3-391.60B-01 095A	0	2	8	3.5	10	32	31	60	80	95	2	10	0.6	35.0
					.079	.315	.138	.394	1.260	1.220	2.362	3.150	3.740				
M7	M16	C4	C4-391.60B-02 101A	0	4	10	2.8	13	40	40	60		101	2	10	0.7	60.0
					.157	.394	.110	.512	1.575	1.575	2.362		3.976				
M14	M32	C5	C5-391.60B-03 158A	0	8	18	10	23	50	56.4	103		158	2	10	2.4	380.0
					.315	.709	.394	.906	1.968	2.220	4.055		6.220				

1) 0 = no coolant

2) Max allowed tightening torque, Nm

Collets must be ordered separately, see page G118.

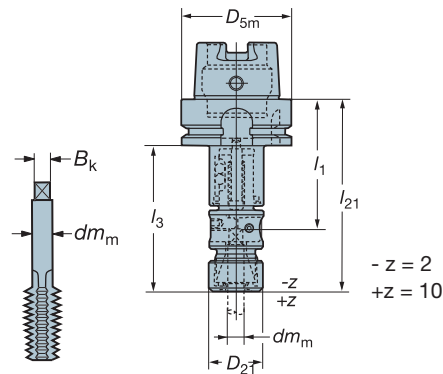
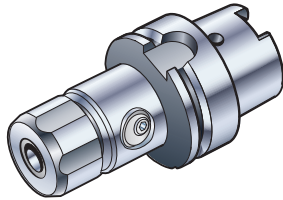


G187

Floating rubber collet chuck

HSK form A/C

392.41060B



Note: Hole for data carrier is not standard.

Floating design

Tap range		HSK size	Ordering code	Coolant ¹⁾	Tap shank mm, inch				Dimensions, mm, inch							
min	max				B_k min	max	dm_m min	max	D_{5m}	D_{21}	l_1	l_3	l_{21}	$\frac{Q}{kg}$	Nm ²⁾	
M7	M16	63	392.41060B-63 02 113B	0	2	10	2.8	13	63	40	72	87	113	1.1	60	
					.079	.394	.110	.512	2.480	1.575	2.835	3.425	4.449			
M14	M32		392.41060B-63 03 165B	0	8	18	10	23	63	56.4	110	139	165	2.6	380	
					.315	.709	.394	.906	2.480	2.220	4.331	5.472	6.496			
M7	M16	100	392.41060B-100 02 120 A	0	2	10	2.8	13	100	40	79	91	120	2.6	60	
					.079	.394	.110	.512	3.937	1.575	3.110	3.583	4.724			
M14	M32		392.41060B-100 03 172 A	0	8	18	10	23	100	56.4	117	143	172	4.2	380	
					.315	.709	.394	.906	3.937	2.220	4.606	5.630	6.772			

¹⁾ 0 = no coolant

²⁾ Max allowed tightening torque

Collets must be ordered separately, see page G118.



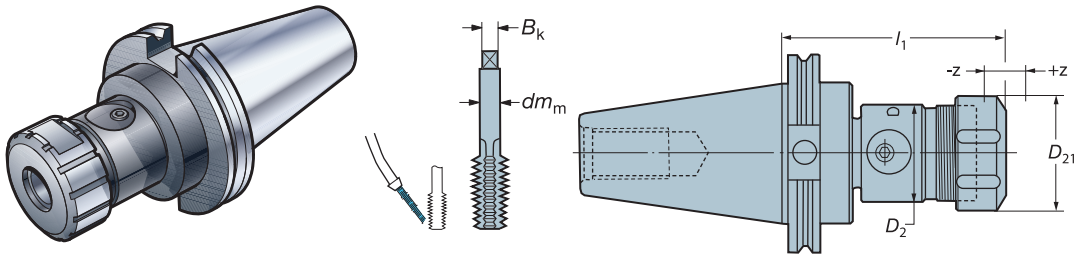
G186

D
E
F
G
J

Floating rubber collet chuck

Cat V-Flange

A392.4560B



l_1 = programming length

Inch bore

			Tap size range				Dimensions, inch					
Taper	Ordering code	Coolant ¹⁾	B_k min	B_k max	dm_m min	dm_m max	D_2	D_{21}	l_1	-z	+z	
40	A392.4560B-40 01 085	0	.079	.315	.138	.394	1.220	1.220	3.375	2.007	10.008	6.0
	A392.4560B-40 02 089	0	.157	.394	.110	.512	1.575	1.575	3.515	2.007	10.008	6.2
	A392.4560B-40 03 175	0	.315	.709	.394	.906	1.969	2.220	6.875	3.988	15.011	7.1
50	A392.4560B-50 02 089	0	.157	.394	.110	.512	1.575	1.575	3.500	2.007	10.008	15.9
	A392.4560B-50 03 112	0	.315	.709	.394	.906	1.969	2.220	4.406	3.988	15.011	17.6

¹⁾ 0 = no coolant

Rubber collets must be ordered separately

		Ordering code			
					
Collet size	dm_m mm (inch)			Shank DIN 374 ¹⁾	Suitable for:
1	3.5-6.5 (.138-.256)	391.60A-OZ J421	M4-M8	(0-1/4)	...01 xxx
2	6.5-10 (.256-.394)	391.60A-OZ J422	M6-M12	(1/4-9/16)	...01 xxx
3	2.8-7 (.110-.276)	391.60A-OZ J440	M5-M10	(0-1/4)	...02 xxx
4	7-13 (.276-.512)	391.60A-OZ J443	M7-M16	(5/16-5/8)	...02 xxx
5	10-16 (.394-.630)	391.60A-OZ J461	M10-M16	(9/16-3/4)	...03 xxx
6	16-23 (.630-.906)	391.60A-OZ J462	M20-M30	(13/16-1 1/8)	...03 xxx

¹⁾ For other standards, check shank dimensions B_k and dm_m



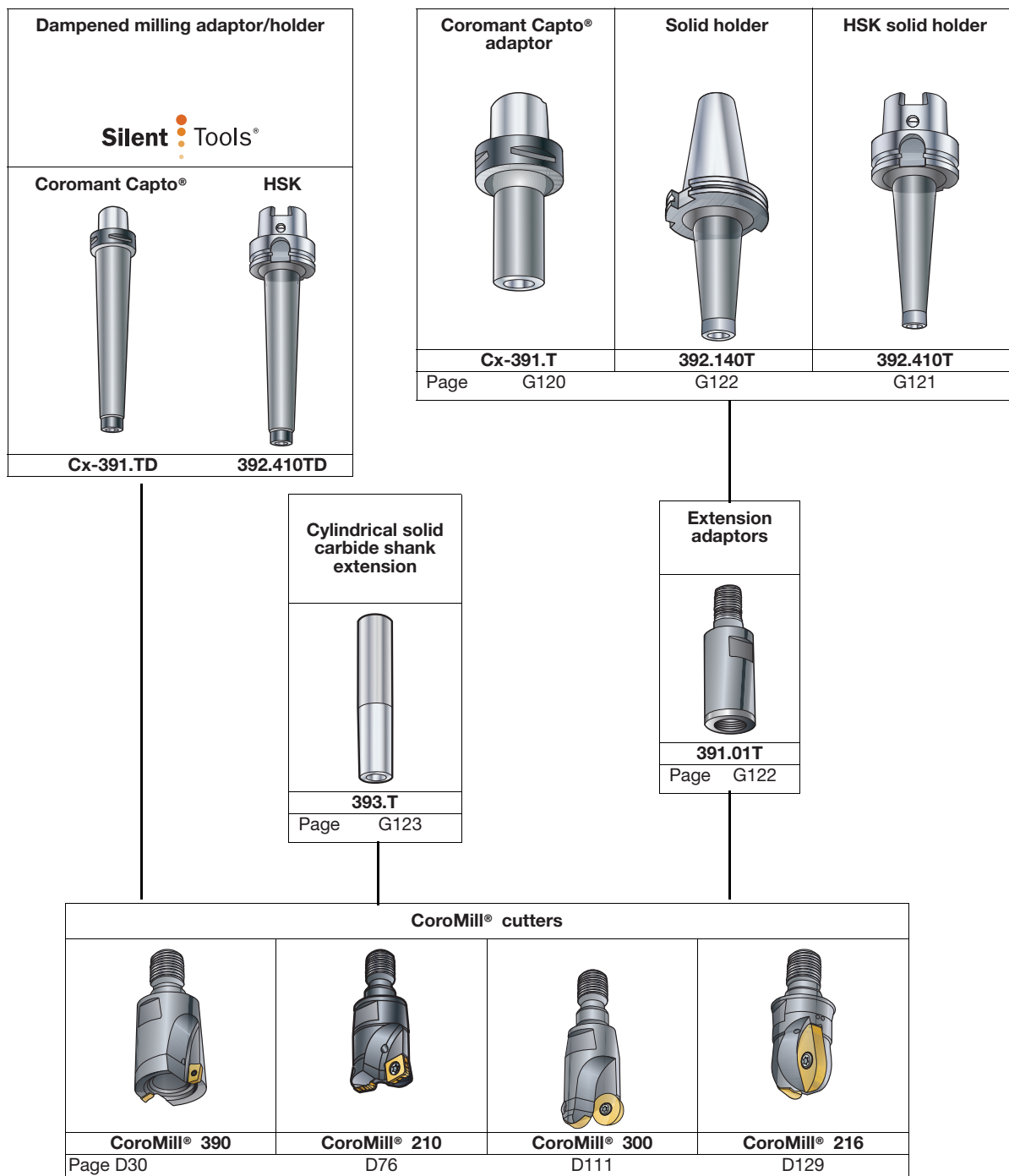
CoroMill® modular cutting tools with threaded coupling

A system of small CoroMill® screw type cutters and a variety of shanks for demanding die and mould making.

Tool set-ups with CoroMill® performance

Slim, but rigid assemblies with accessibility for milling of deep and narrow cavities. Opportunities to optimise the total gauge length of the set-up for best performance in each application.

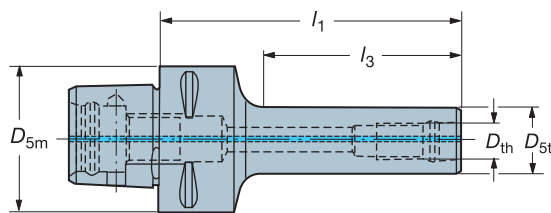
Many tool solutions with minimum number of modules will reduce inventory costs. Dampened milling adaptor for high productivity at extremely long overhangs - with no vibration.



Coromant Capto® milling adaptor

Shank with threaded coupling (MSSC)

391.T



l_1 = programming length

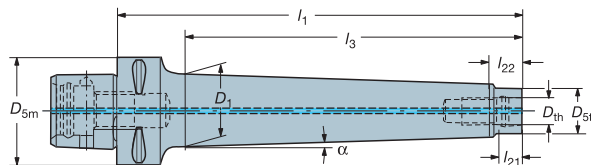
Coupling size	Thread type		Coolant ¹⁾	Dimensions, mm, inch									
	D_{th}	Ordering code		D_{5m} mm	D_{5m} in.	D_{5t} mm	D_{5t} in.	l_1 mm	l_1 in.	l_3 mm	l_3 in.	kg	
C3	M8	C3-391.T-08 060	1	32	1.260	12.8	.504	60	2.362	37.8	1.488	0.2	
	M10	C3-391.T-10 070	1	32	1.260	17.8	.701	70	2.756	48.5	1.909	0.2	
C4	M8	C4-391.T-08 070	1	40	1.575	12.8	.504	70	2.756	41.8	1.646	0.3	
	M10	C4-391.T-10 080	1	40	1.575	17.8	.701	80	3.150	52.4	2.063	0.4	
	M12	C4-391.T-12 080	1	40	1.575	20.8	.819	80	3.150	52.8	2.079	0.4	
C5	M10	C5-391.T-10 080	1	50	1.968	17.8	.701	80	3.150	51.1	2.012	0.5	
	M12	C5-391.T-12 080	1	50	1.968	20.8	.819	80	3.150	51.5	2.028	0.6	
	M16	C5-391.T-16 080	1	50	1.968	28.8	1.134	80	3.150	52.6	2.071	0.7	
C6	M10	C6-391.T-10 090	1	63	2.480	17.8	.701	90	3.543	55.8	2.197	0.9	
	M12	C6-391.T-12 100	1	63	2.480	20.8	.819	100	3.937	66.2	2.606	1.0	
	M16	C6-391.T-16 100	1	63	2.480	28.8	1.134	100	3.937	67.3	2.650	1.1	

1) 1 = coolant through centre

Coromant Capto® Dampened milling adaptor

Shank with threaded coupling (MSSC)

391.TD



l_1 = programming length

Coupling size	Thread type		Coolant ¹⁾	Dimensions, mm, inch									
	D_{th}	Ordering code		D_1	D_{5m}	D_{5t}	l_1	l_3	l_{21}	l_{22}	α	kg	
C4	M10	C4-391.TD-10 175	1	30	40	17.8	175	150	10.5	13.5	2.1	1.0	
				1.181	1.575	.701	6.890	5.906	.413	.532	2.098		
C5	M12	C5-391.TD-12 186	1	34	50	21	186	160	12	15.5	1.78	1.5	
				1.339	1.968	.827	7.323	6.299	.472	.610	1.782		
				50	50	29	279	259	15.8	19	2.15	3.4	
C6	M16	C6-391.TD-16 279	1	50	63	29	279	251.6	15.8	19	2.22	3.8	
				1.968	2.480	1.142	10.984	9.906	.622	.748	2.216		
				50	63	29	279	251.6	15.8	19	2.22	3.8	

1) 1 = coolant through centre



G6



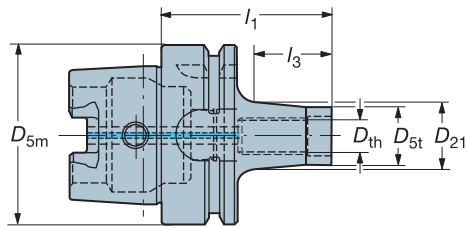
G2

HSK milling holder

Form A/C

Shank with threaded coupling (MSSC)

392.410T



l_1 = programming length

HSK size	Thread type	Ordering code	Coolant ¹⁾	Dimensions, mm, inch										
				D_{21} mm	D_{21} in.	D_{5m} mm	D_{5m} in.	D_{5t} mm	D_{5t} in.	l_1 mm	l_1 in.	l_3 mm	l_3 in.	
63	M8	392.410T-63 08 084	1	20	.787	63	2.480	12.8	.504	84	3.307	50	1.968	0.8
	M10	392.410T-63 10 084	1	24	.945	63	2.480	17.8	.701	84	3.307	50	1.968	0.8
	M12	392.410T-63 12 084	1	24	.945	63	2.480	20.8	.819	84	3.307	50	1.968	0.8
	M16	392.410T-63 16 084	1	34	1.339	63	2.480	28.8	1.134	84	3.307	50	1.968	1.0

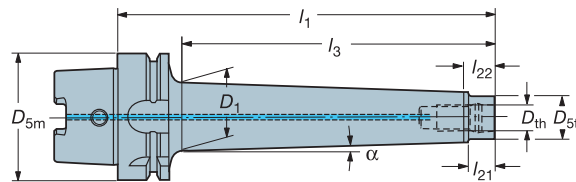
1) 1 = coolant through centre

HSK 63 dampened milling holder

Form A/C

Shank with threaded coupling (MSSC)

392.410TD



l_1 = programming length

	Thread type			Dimensions, mm, inch								
HSK size	D_{th}	Ordering code	Coolant ¹⁾	D_1	D_{5m}	D_{5t}	l_1	l_3	l_{21}	l_{22}	α	
63	M10	392.410TD-63 10 183A	1	30	63	17.8	183	150.1	10.5	13.5	2.09	1.2
				1.181	2.480	.701	7.205	5.909	.413	.532		
	M12	392.410TD-63 12 193A	1	34	63	21	193	160.77	12.2	15.5	1.77	1.6
				1.339	2.480	.827	7.598	6.330	.480	.610		
	M16	392.410TD-63 16 280A	1	50	63	29	280	252	15.8	19	2.21	3.5
				1.968	2.480	1.142	11.024	9.921	.622	.748		

1) 1 = coolant through centre



G69



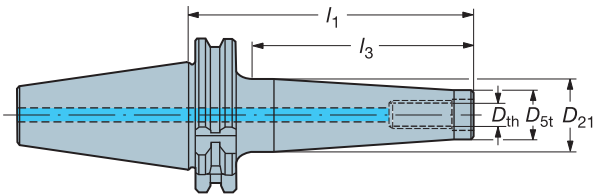
G2

D
E
F
G
J

Solid holders

Shank with threaded coupling (MSSC)

392.140T / 392.55T



l_1 = programming length

Metric version

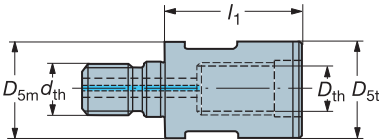
		Thread type		Dimensions, mm					
Machine design	Taper	D_{th}	Ordering code	Coolant ¹⁾	D_{st}	D_{21}	l_1	l_3	
ISO7388.1	40	M10	392.140T-40 10 058	1	17.8	20	58	30	1.0
		M12	392.140T-40 12 058	1	20.8	24	58	30	1.0
		M12	392.140T-40 12 098	1	20.8	31	98	70	1.2
		M16	392.140T-40 16 058	1	28.8	34	58	30	1.0
		M16	392.140T-40 16 098	1	28.8	34	98	70	1.3
MAS/BT403	40	M10	392.55T-40 10 098	1	17.8	28	98	70	1.3
		M12	392.55T-40 12 098	1	20.8	31	98	70	1.3
		M16	392.55T-40 16 098	1	28.8	34	98	70	1.4

1) 1 = coolant through centre

Extension adaptor

Shank with threaded coupling (MSSC)

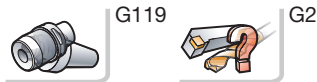
391.01T



l_1 = programming length

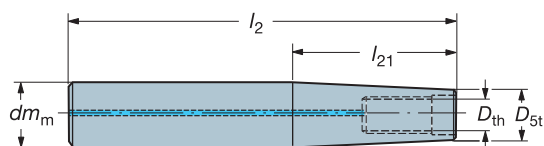
Thread type				Dimensions, mm, inch					
d_{th}	D_{th}	Ordering code	Coolant ¹⁾	D_{st} mm	D_{st} mm	D_{sm} mm	D_{sm} in.	l_1 mm	l_1 in.
M8	8	391.01T-08 08 030	1	12.8	.504	12.8	.504	30	1.181
M10	10	391.01T-10 10 035	1	17.8	.701	17.8	.701	35	1.378
M12	12	391.01T-12 12 040	1	20.8	.819	20.8	.819	40	1.575
M16	16	391.01T-16 16 040	1	28.8	1.134	28.8	1.134	40	1.575

1) 1 = coolant through centre



Cylindrical solid carbide shank extensions

A393.T / A393.T



Metric version

Thread type			Dimensions, mm				
D_{th}	Ordering code	Coolant ¹⁾	dm_m	D_{St}	l_2	l_{21} min	
M8	393.T-16 08 110	1	16	12.8	110	60	0.3
M8	393.T-16 08 150	1	16	12.8	155	100	0.4
M10	393.T-20 10 115	1	20	17.8	120	60	0.2
M10	393.T-20 10 175	1	20	17.8	180	120	0.3

Inch version

Thread type			Dimensions, inch				
D_h	Ordering code	Coolant ¹⁾	d_{m_n}	D_{St}	l_2	l_{21} min	
M8	A393.T-15 08 110	1	.625	.504	4.330	2.362	1.3
M8	A393.T-15 08 150	1	.625	.504	5.905	3.937	1.8
M10	A393.T-19 10 115	1	.750	.701	4.527	2.362	1.8
M10	A393.T-19 10 175	1	.750	.701	6.890	4.724	2.4

¹⁾ 1 = coolant through centre



Recommended drill diameter

M	Metric coarse thread		UNF Unified fine thread			UNC Unified coarse thread			Pg	Steel conduit thread	
Thread dim.	Drill dia.	Pitch	Thread dim.	Drill dia.	Pitch t.p.i. ¹⁾	Thread dim.	Drill dia.	Pitch t.p.i. ¹⁾	Thread dim.	Drill dia.	Pitch t.p.i. ¹⁾
	mm (inch)	mm (inch)	mm (inch)			mm (inch)				mm (inch)	
M4	3.30 (.130)	0.7 (.028)	UNF No 6	3.00 (.118)	40	UNC No 6	2.85 (.112)	32	Pg7	11.40 (.449)	20
M4.5	3.70 (.146)	0.75 (.030)	UNF No 8	3.50 (.138)	36	UNC No 8	3.50 (.138)	32	Pg9	14.00 (.551)	18
M5	4.20 (.165)	0.8 (.031)	UNF No 10	4.10 (.161)	32	UNC No 10	3.90 (.154)	24	Pg11	17.25 (.679)	18
M6	5.00 (.197)	1 (.039)	UNF No 12	4.65 (.183)	28	UNC No 12	4.50 (.177)	24	Pg13.5	19.00 (.748)	18
M7	6.00 (.236)	1 (.039)	UNF 1/4"	5.50 (.217)	28	UNC 1/4"	5.20 (.205)	20	Pg16	21.25 (.837)	18
M8	6.80 (.268)	1.25 (.049)	UNF 5/16"	6.90 (.272)	24	UNC 5/16"	6.60 (.260)	18	Pg21	27.00 (1.063)	16
M9	7.80 (.307)	1.25 (.049)	UNF 3/8"	8.50 (.335)	24	UNC 3/8"	8.00 (.315)	16	Pg29	35.50 (1.398)	16
M10	8.50 (.335)	1.5 (.059)	UNF 7/16"	9.90 (.390)	20	UNC 7/16"	9.40 (.370)	14	Pg36	45.50 (1.791)	16
M11	9.50 (.374)	1.5 (.059)	UNF 1/2"	11.50 (.453)	20	UNC 1/2"	10.75 (.423)	13	NTP	American tapered pipe thread	Pitch t.p.i. ¹⁾
M12	10.20 (.402)	1.75 (.069)	UNF 9/16"	12.90 (.508)	18	UNC 9/16"	12.25 (.482)	12			
M14	12.00 (.472)	2 (.079)	UNF 5/8"	14.50 (.571)	18	UNC 5/8"	13.50 (.531)	11			
M16	14.00 (.551)	2 (.079)	UNF 3/4"	17.50 (.689)	16	UNC 3/4"	16.50 (.650)	10			
M18	15.50 (.610)	2.5 (.098)	UNF 7/8"	20.50 (.807)	14	UNC 7/8"	19.50 (.768)	9			
M20	17.50 (.689)	2.5 (.098)	UNF 1"	23.25 (.915)	12	UNC 1"	22.25 (.876)	8			
M22	19.50 (.768)	2.5 (.098)	UNF 1 1/8"	26.50 (1.043)	12	UNC 1 1/8"	25.00 (.984)	7	Thread dim.	Drill dia.	Pitch t.p.i. ¹⁾
M24	21.00 (.827)	3 (.118)	UNF 1 1/4"	29.75 (1.171)	12	UNC 1 1/4"	28.25 (1.112)	7		mm (inch)	
M27	24.00 (.945)	3 (.118)	UNF 1 3/8"	33.00 (1.299)	12	UNC 1 3/8"	31.00 (1.220)	6	NPT 1/16"	6.10 (.240)	27
M30	26.50 (1.043)	3.5 (.138)	UNF 1 1/2"	36.00 (1.417)	12	UNC 1 1/2"	34.00 (1.339)	6	NPT 1/8"	8.50 (.335)	27
M33	29.50 (1.161)	3.5 (.138)				UNC 1 1/2"	34.00 (1.339)	6	NPT 1/4"	11.00 (.433)	18
M36	32.00 (1.260)	4 (.157)				UNC 1 3/4"	39.50 (1.555)	5	NPT 3/8"	14.50 (.571)	18
M39	35.00 (1.378)	4 (.157)				UNC 2"	45.25 (1.781)	4 1/2	NPT 1/2"	17.80 (.701)	14
M42	37.50 (1.476)	4.5 (.177)							NPT 3/4"	23.0 (.906)	14
M45	40.50 (1.594)	4.5 (.177)							NPT 1"	29.0 (1.142)	11 1/2
M48	43.00 (1.693)	5 (.197)							NPT 1 1/4"	37.5 (1.476)	11 1/2
M52	47.00 (1.850)	5 (.197)							NPT 1 1/2"	44.0 (1.732)	11 1/2
									NPT 2"	56.0 (2.205)	11 1/2
M	Metric fluteless		Rc	Whitworth tapered pipe thread		G	Whitworth cylindrical pipe thread		NPTF	American tapered pipe thread	
Thread dim.	Drill dia.	Pitch	Thread dim.	Drill dia.	Pitch t.p.i. ¹⁾	Thread dim.	Drill dia.	Pitch t.p.i. ¹⁾	Thread dim.	Drill dia.	Pitch t.p.i. ¹⁾
	mm (inch)		mm (inch)			mm (inch)			mm (inch)		
M4	3.70 (.146)	0.7	Rc 1/8"	8.40 (.331)	28	G 1/8"	8.80 (.346)	28	NPTF 1/16"	6.00 (.236)	27
M5	4.63 (.182)	0.8	Rc 1/4"	11.20 (.441)	19	G 1/4"	11.80 (.465)	19	NPTF 1/8"	8.40 (.331)	27
M6	5.50 (.217)	1	Rc 3/8"	14.75 (.581)	19	G 3/8"	15.25 (.600)	19	NPTF 1/4"	10.90 (.429)	18
M7	6.51 (.256)	1	Rc 1/2"	18.25 (.719)	14	G 1/2"	19.00 (.748)	14	NPTF 3/8"	14.25 (.561)	18
M8	7.40 (.291)	1.25	Rc 3/4"	23.75 (.935)	14	G 5/8"	21.00 (.827)	14	NPTF 1/2"	17.75 (.699)	14
M10	9.25 (.364)	1.5	Rc 1"	30.00 (1.181)	11	G 3/4"	24.50 (.965)	14	NPTF 3/4"	23.00 (.906)	14
M12	11.12 (.438)	1.75				G 7/8"	28.25 (1.112)	14	NPTF 1"	29.00 (1.142)	11 1/2
M14	13.00 (.512)	2				G 1"	30.75 (1.211)	11	NPTF 1 1/4"	37.75 (1.486)	11 1/2
M16	15.00 (.591)	2				G 1 1/4"	39.50 (1.555)	110	NPTF 1 1/2"	43.75 (1.722)	11 1/2
						G 1 1/2"	45.50 (1.791)	11	NPTF 2"	55.75 (2.195)	11 1/2
						G 1 3/4"	51.40 (2.024)	11			
						G 2"	57.20 (2.252)	11			
Drill dia. = Tap dia. – pitch											

1) TPI = No of threads/inch.

Diameter recommendations when using CoroDrill Delta-C drills

Many tables containing recommended tapping drill sizes are not valid for modern drills such as CoroDrill Delta-C. These drills normally produce a slightly smaller but more accurate hole than conventional HSS drills. If these tables are used therefore, tap breakages may occur.

The drill diameters are chosen for a depth of thread engagement of 75 - 66 %. See section E CoroDrill Delta C for correct drill dimension.

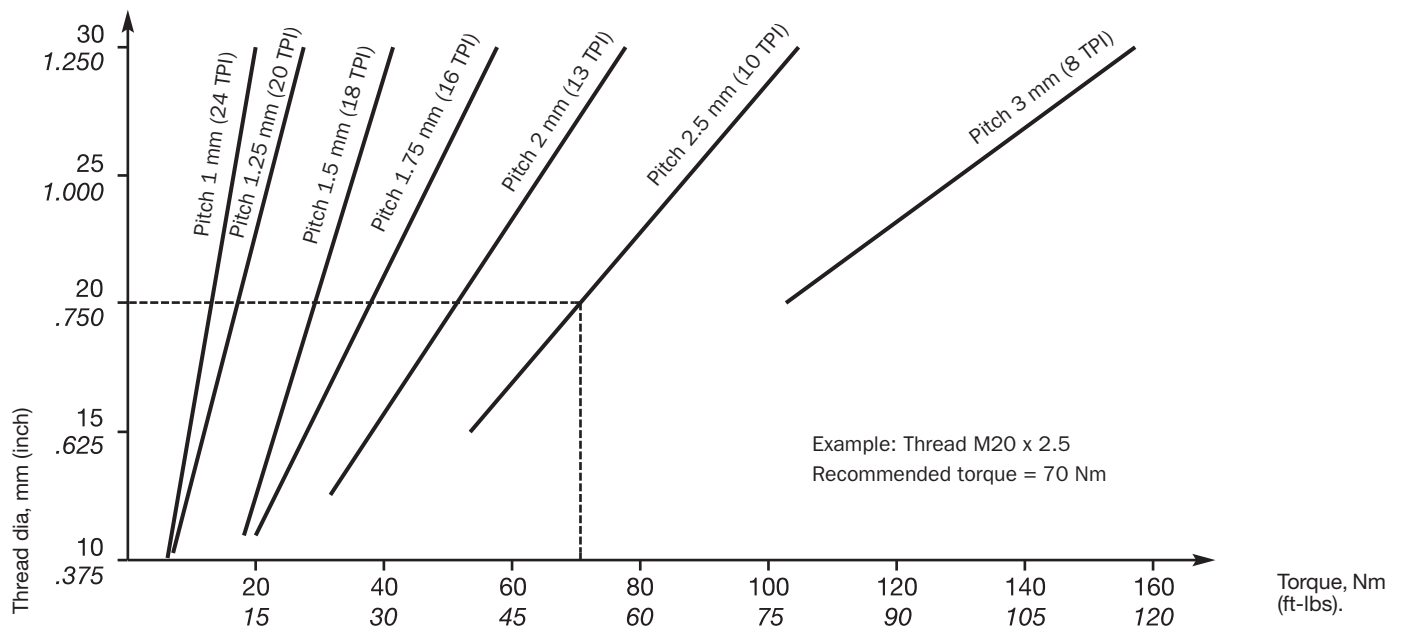
Recommended drill type	Thread	Drill dia.	Pitch, mm
CoroDrill® Delta-C	M4	3.35 - 3.4	0.7
	M5	4.25 - 4.3	0.8
	M6	5.0 - 5.1	1
	M8	6.85 - 6.9	1.25
	M10	8.6 - 8.7	1.5
	M12	10.3 - 10.4	1.75
	M14	12.1 - 12.2	2
	M16	14.1 - 14.2	2
	M18	15.5	
	M20	17.5	

Recommended torques for tapping operations

Torque value Nm (ft-lbs)	Metric taps	Whitworth	Whitworth G	BSF	BSP	BA	Pg	NPT	UNC	UNF	Torque value Nm (ft-lbs)
0.5 (1) 1.2 (1) 1.6 (1) 2 (1) 2.5 (2)	M 3 M 4 M 5	5/32"				No. 7 No. 3 No. 2			No. 3 No. 6 No. 8	No. 4 No. 8 No. 10 No. 12	0.5 (1) 1.2 (1) 1.6 (1) 2 (1) 2.5 (2)
3 (2) 4 (3) 5 (4) 6 (4) 8 (6)	M 6 M 8	3/16" 7/32" 1/4"	G 1/8"	7/32" 1/4" 9/32" 5/16"		No. 1 No. 0			No. 10 No. 12 1/4"	1/4" 5/16" 3/8"	3 (2) 4 (3) 5 (4) 6 (4) 8 (6)
10 (7) 12 (9) 16 (12) 18 (13) 20 (15)	M 10	5/16" 3/8"	G 1/4"	3/8" 7/16"	1/8"		Pg 7 Pg 9		5/16" 3/8"	7/16" 1/2" 9/16" 5/8"	10 (7) 12 (9) 16 (12) 18 (13) 20 (15)
22 (16) 25 (18) 28 (21) 32 (24) 36 (26)	M 12 M 14	7/16" 1/2"	G 3/8"	1/2" 9/16"	1/4" 3/8"		Pg 11 Pg Pg 16		7/16" 1/2"	3/4"	22 (16) 25 (18) 28 (21) 32 (24) 36 (26)
40 (29) 45 (33) 50 (37) 56 (41) 63 (46)	M 16 M 18	9/16" 5/8"	G 1/2" G 5/8"	5/8" 11/16"			Pg 21 Pg 29		9/16" 5/8"	7/8"	40 (29) 45 (33) 50 (37) 56 (41) 63 (46)
70 (52) 80 (59) 90 (66) 100 (74) 110 (81)	M 20 M 22	3/4" 7/8"	G 3/4" G 7/8"	3/4" 13/16" 7/8"	1/2" 5/8" 3/4"		Pg 36 Pg 42 Pg 48	3/8"	3/4" 7/8"	1" 1.1/8" 1.1/4" 1.3/8" 1.1/2"	70 (52) 80 (59) 90 (66) 100 (74) 110 (81)
125 (92) 140 (103) 160 (118) 180 (133) 200 (147)	M 24 M 27	1"	G 1" G 1.1/8" G 1.1/4" G 1.3/8"	1" 1.1/8" 1.1/4"				1/2" 3/4"	1" 1.1/8"		125 (92) 140 (103) 160 (118) 180 (133) 200 (147)
220 (162) 240 (177)	M 30 M 33	1.1/8" 1.1/4"	G 1.1/2" G 1.3/4"		1"				1.1/4"		220 (162) 240 (177)

Recommended torque for tapping in material to ? B 1000 N/mm²

Torque values include a wear factor of 100%.



Accessories

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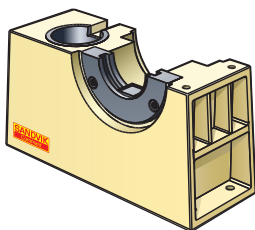
Spare parts

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Holders for drills	G168	For spare parts for Coromant Capto® multi-task machining tools, see chapter H	

Assembly fixture

for mounting and dismounting of modular tools

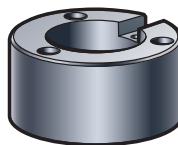
391.500



Fixture body

Ordering code: 391.500

391.501



Fixture body

Ordering code: 391.501

Ordering code



Sleeve

For holder type, size

391.540-C3	Coromant Capto Size C3
391.540-C4	Coromant Capto Size C4
391.540-C5	Coromant Capto Size C5
391.540-C6	Coromant Capto Size C6
391.540-C8	Coromant Capto Size C8
391.540-C10	Coromant Capto Size C10
391.540-HA05	HSK 50 Form A/C
391.540-HA06	HSK 63 Form A/C
391.540-HA08	HSK 80 Form A/C
391.540-HA10	HSK 100 Form A/C
391.540-50	MAS-BT 50/CAT/ISO
391.540-30	MAS-BT 30/CAT/ISO
391.540-40	MAS-BT 40/CAT/ISO

Ordering code



Flange

Collar

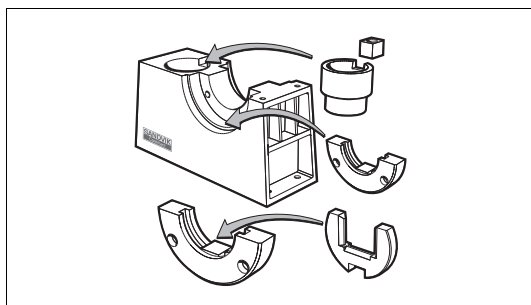
For holder type, size

391.510-140 50	391.530-C3	Coromant Capto Size C3
391.510-140 50	391.530-C4	Coromant Capto Size C4
391.510-140 50	391.530-C5	Coromant Capto Size C5
391.510-140 50	391.530-C6	Coromant Capto Size C6
391.510-140 50	391.530-C8	Coromant Capto Size C8
	391.530-C10*	Coromant Capto Size C10 and C8X
391.510-HA05		HSK 50 Form A
391.510-HA06		HSK 63 Form A
391.510-HA08		HSK 80 Form A
391.510-HA10		HSK 100 Form A
391.510-HA12		HSK 125 Form A
391.510-55 30		MAS-BT 30
391.510-55 40		MAS-BT 40
391.510-55 50		MAS-BT 50
391.510-562-40		BIG PLUS, MAS BT 40
391.510-562-50		BIG PLUS, MAS BT 50
391.510-140 40		DIN 69871/40, ANSIB 5.50-40, ISO7388/1-40, CAT 40
391.510-140 50		DIN 69871/50, ANSIB 5.50-40, ISO7388/1-50, CAT 50
391.510-540 40		BIG PLUS DIN69871/1-40, BIG PLUS 7388/1-40, CAT 40
391.510-540 50		BIG PLUS DIN69871/1-50, BIG PLUS 7388/1-50, CAT 50
391.510-00 40		DIN 2080-40/NMTB 40
391.510-00 50		DIN 2080-50/NMTB 50
391.510-140 50	391.530-50	Varilock size 50
391.510-140 50	391.530-63	Varilock size 63
391.510-140 50	391.530-80	Varilock size 80

* Combined collar/flange for C10 and C8X

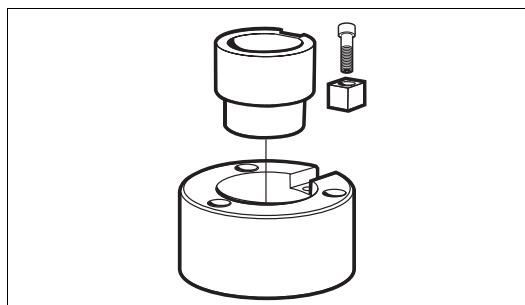
Note: Key is delivered with the sleeve.

Assembly fixture 391.500



Choose flange, collar and sleeve to suit tool to be assembled.

Fixture 391.501 for maintenance of tools with Coromant Capto® and HSK couplings



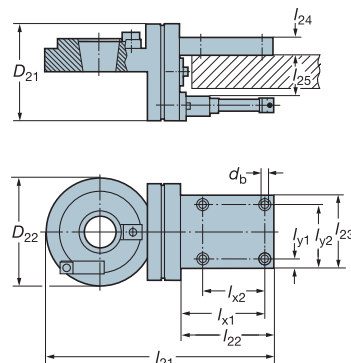
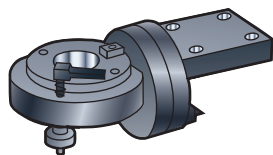
Choose sleeve to suit coupling.
The fixture should be fastened to the bench with three socket head screws (not delivered with fixture)

Assembly fixture

for assembling and dismantling basic holders

Pneumatically operated

391.200



Note!

Assembly fixture 391.200-xx includes foot pedal.

Instructions are enclosed with fixture.

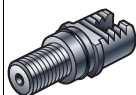
Air supply of 6 bar (85 lbs/in²) is required.

Size		Ordering code	Dimensions, mm, inch													
Taper	HSK		d_b	D_{21}	D_{22}	l_{21}	l_{22}	l_{23}	l_{24}	l_{25}	l_{x1}	l_{x2}	l_{y1}	l_{y2}	l_{23}	
40	–	391.200-40	11	160	180	370	150	120	30	67	135	100	15	105	20	
			.433	6.299	7.087	14.567	5.906	4.724	1.181	2.637	5.315	3.737	.590	4.134		
45	–	391.200-45	11	160	180	370	150	120	30	67	135	100	15	105	20	
			.433	6.299	7.087	14.567	5.906	4.724	1.181	2.637	5.315	3.737	.590	4.134		
50	–	391.200-50	11	160	180	370	150	120	30	67	135	100	15	105	20	
			.433	6.299	7.087	14.567	5.906	4.724	1.181	2.637	5.315	3.737	.590	4.134		
–	50	391.200-H050	11	160	180	370	150	120	30	67	135	100	15	105	20	
			.433	6.299	7.087	14.567	5.906	4.724	1.181	2.637	5.315	3.737	.590	4.134		
–	63	391.200-H063	11	160	180	370	150	120	30	67	135	100	15	105	20	
			.433	6.299	7.087	14.567	5.906	4.724	1.181	2.637	5.315	3.737	.590	4.134		
–	100	391.200-H100	11	160	180	370	150	120	30	67	135	100	15	105	20	
			.433	6.299	7.087	14.567	5.906	4.724	1.181	2.637	5.315	3.737	.590	4.134		

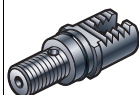
Drawbolts for Coromant Capto® front clamp

Coupling size

Ordering code



Drawbolt



Drawbolt



O-ring²⁾

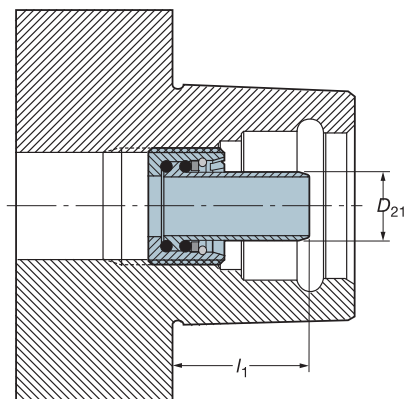
C5	C5-390.00-M16-01	C5-390.00-M16-02 ¹⁾	3671 010-125
C6	C6-390.00-M20-01	C6-390.00-M20-02 ¹⁾	3671 010-128
C8	C8-390.00-M20-01	C8-390.00-M20-02 ¹⁾	3671 010-130

¹⁾ To be used together with turning cutting units.

²⁾ Delivered together with the drawbolt.

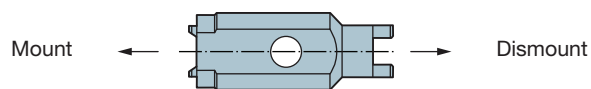
Coolant tubes for Coromant Capto®

Cx-CT for Coromant Capto®



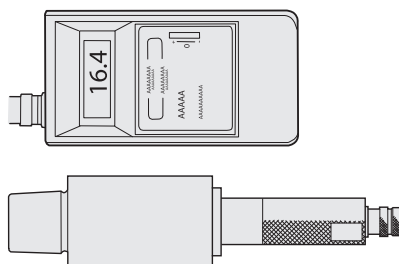
The requirement for use of coolant tubes is machine related, see machine information before installing.

Ensure the clamping device and/or machine are able to accept/handle the coolant tube before using.



Please refer to M/C manual

Safe control

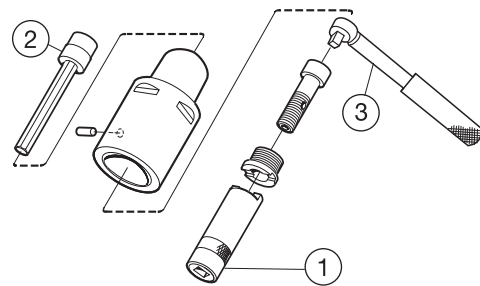


The safe control is used for measuring the clamping force of a machine's clamping system. If the clamping force is too low, the dynamic reaction between spindle and tool deteriorates.

Contact your local Sandvik representative for more information.

D
E
F
G
J

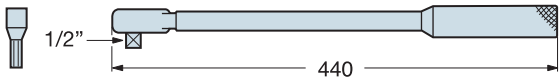
Assembly tools for extension / reduction adaptors



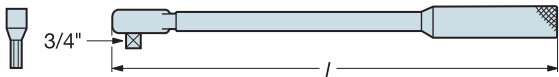
All these accessories are supplied to separate order, and we recommend that they are ordered with the first Coromant Capto parts.

	1.	2.	3.	
				
Coupling size	Retaining nut spanner	Extension key	Torque wrench	Length (mm)
C3	5680 065-13	5680 015-05	C-TK-02	440
C4	5680 065-10	5680 015-05	C-TK-02	440
C5	5680 065-11	5680 015-01	C-TK-02	440
C6-C8	5680 065-12	5680 015-02	C-TK-02	440
C10	5680 065-14	5680 015-06	C-TK-04	683

C-TK-02
40-200Nm
30-148 ft-lbs

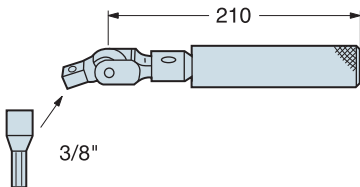


C-TK-04

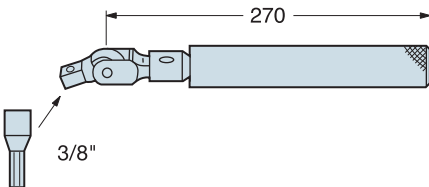


Torque wrench for Coromant Capto® front clamping

TW-30-01
Pre-set 30 Nm (22 ft-lbs)



TW-60-01
Pre-set 60 Nm (44 ft-lbs)



			Ordering code	Size mm	Spare parts
Coupling size	ft-lbs	Nm	Torque wrench		Key adaptor
C5	22	30	TW-30-01	5	5680 035-08
C6	22	30	TW-30-01	5	5680 035-08
C8	44	60	TW-60-01	7	5680 035-09

Tightening torque recommendations

Coromant Capto® tightening torque:

Manual clamping units type NC2000 and NC3000

Coupling size	Torque	
	Nm	ft-lbs
C3	35	26
C4	50	37
C5	70	52

Coromant Capto® tightening torque:

Manual clamping units and driven tool holders with camshaft mechanism

Coupling size	Torque	
	Nm	ft-lbs
C3	35	26
C4	50	37
C5	70	52
C6	90	66
C8	130	96

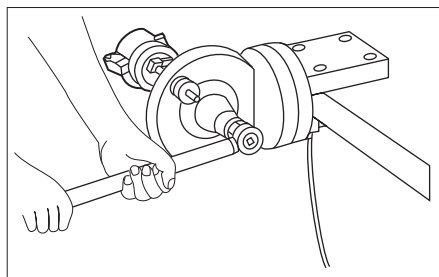
Coromant Capto® required pressure:

Hydro-mechanical clamping units type 5000

Coupling size	Clamping Pressure bar (PSI)	Ejecting Pressure bar (PSI)
C4	100 (1450)	100 (1450)
C5	80 (1160)	80 (1160)
C6	80 (1160)	80 (1160)
C8	80 (1160)	80 (1160)
C8X	80 (1160)	80 (1160)
C10	80 (1160)	80 (1160)

Required oil flow in all cases: 6 l/min

Coromant Capto® basic holders



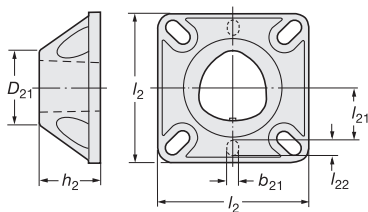
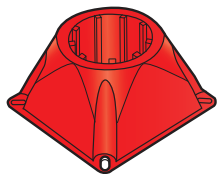
Centre bolt clamping

Coupling size	Torque	
	Nm	ft-lbs
C3	45	33
C4	55	40
C5	95	70
C6	170	125
C8	170	125
C10	380	277

Front clamp

Coupling size	Torque	
	Nm	ft-lbs
C5	30	22
C6	30	22
C8	60	44

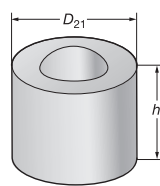
Cassettes with tapered polygon seating



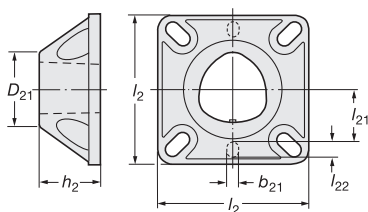
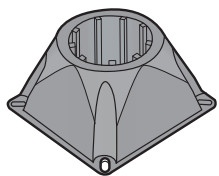
-4000

Plastic storage cassettes (red)

-6000-B



Aluminium cassette blanks



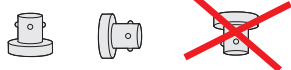
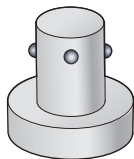
-5000

High grade plastic in-machine tool storage (black)

Coupling size	Ordering code	Dimensions, mm, inch						
		b_{21}	D_{21}	h_2	l_2	l_{21}	l_{22}	
C3	C3-C-4000	-	32	26	65	-	-	All plastic cassettes conforming to hole pattern 17 mm, 20 mm, 25 mm and 1". High grade plastic. Red colour. To be used: - alone for upright storage - with mechanism type PL-01 for horizontal or upright position.
C4	C4-C-4000	6	50	39	74	26	8	
		.236	1.969	1.535	2.913	1.024	.315	
C5	C5-C-4000	6	50	39	74	26	8	
		.236	1.969	1.535	2.913	1.024	.315	
C6	C6-C-4000	8	80	63	116	41	10	
		.315	3.150	2.480	4.567	1.614	.394	High grade re-inforced black plastic. For in-machine tool storage with mechanism AL-01.
C8	C8-C-4000	8	80	63	116	41	10	
		.315	3.150	2.480	4.567	1.614	.394	
C4	C4-C-5000	6	50	39	74	26	8	
		.236	1.969	1.535	2.913	1.024	.315	
C5	C5-C-5000	6	50	39	74	26	8	
		.236	1.969	1.535	2.913	1.024	.315	
C6	C6-C-5000	8	80	63	116	41	10	
		.315	3.150	2.480	4.567	1.614	.394	
C8	C8-C-5000	8	80	63	116	41	10	
		.315	3.150	2.480	4.567	1.614	.394	Aluminium cassette blanks for individual adaptation. To be used with AL-01.
C10	C10-C-5000	8	100	80	150	60	68	
		.315	3.940	3.150	5.910	2.360	2.630	
C6	C6-C-6000-B	-	120	63	-	-	-	
			4.724	2.480				
C8	C8-C-6000-B	-	120	63	-	-	-	
			4.724	2.480				
C10	C10-C-6000-B	-	138	80	-	-	-	
			5.433	3.150				

Locking mechanism for cassettes

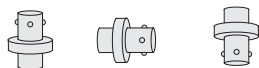
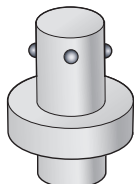
-PL-01



Passive locking mechanism

For vertical upwards and horizontal storage.
NEVER upside down storage.

-AL-01

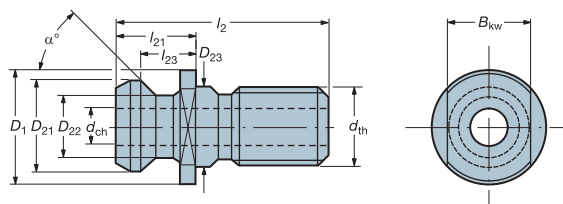
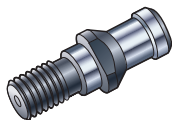


Active locking mechanism

For storage at all angles: vertical upwards and downwards or horizontal.

Coupling size	Ordering code	Pull action force		
		Pull action force, N	Pull action force, lbs	
C4	C4-PL-01	55	12.36	Central passive locking mechanism. Spring loaded clamping. Fits directly into all cassettes type 4000.
C5	C5-PL-01	120	26.98	
C6	C6-PL-01	150	33.72	
C8	C8-PL-01	240	53.95	
		Rec. max. tool weight		
		Rec. max. tool weight, kg	Rec. max. tool weight, lbs	
C4	C4-AL-01	40	88	Active locking mechanism – mechanical push action. Fits directly into all cassettes type 5000/6000.
C5	C5-AL-01	60	132	
C6	C6-AL-01	75	165	
C8	C8-AL-01	110	243	
C10	C10-AL-01	150	330.7	

Pull studs



Metric

				Dimensions, mm												
Machine design	Taper	Ordering code	Coolant ¹⁾	d_{ch}	D_1	D_{21}	D_{22}	D_{23}	l_2	l_{21}	l_{23}	d_{th}	α	B_{KW}	Info	
ISO	40	393.140-40 M16-75	0		23	19	14	17	54	26	20	M16	75	19	DIN 69872	
	40	393.140C-40 M16-45	1	7.35	22.5	18.95	12.95	17	44.5	16.4	11.15	M16	45	18	ISO 7388 B	
	40	393.140C-40 M16-75-1	1	7	23	19	14	17	54	26	20	M16	75	19	ISO 7388	
	40	393.140C-40 M16-75-2	1	7	23	19	14	17	54	26	20	M16	75	19	DIN 69872	
	50	393.140-50 M24-75 2)	0		36	28	21	25	74	34	25	M24	75	30	DIN 69872	
	50	393.140C-50 M24-45	1	11.5	37	29.1	19.6	25	65.5	25.55	17.95	M24	45	30	ISO 7388 B	
	50	393.140C-50 M24-75-1	1	11.5	36	28	21	25	74	34	25	M24	75	30	ISO 7388	
	50	393.140C-50 M24-75-2	1	11.5	36	28	21	25	74	34	25	M24	75	30	DIN 69872	
MAS-BT 403	30	393.55-30 M12-45	0		16.5	11	7	12.5	43	23	18	M12	45	13		
	30	393.55-30 M12-60	0		16.5	11	7	12.5	43	23	18	M12	60	13		
	30	393.55C-30 M12-45	1	2.4	16.5	11	7	12.5	43	23	18	M12	45	13		
	30	393.55C-30 M12-60	1	2.4	16.5	11	7	12.5	43	23	18	M12	60	13		
	40	393.55-40 M16-45	0		23	15	10	17	60	35	28	M16	45	19		
	40	393.55-40 M16-60	0		23	15	10	17	60	35	28	M16	60	19		
	40	393.55-40 M16-90	0		23	15	10	17	60	35	28	M16	90	19		
	40	393.55C-40 M16-45	1	4	23	15	10	17	60	35	28	M16	45	19		
	40	393.55C-40 M16-75	1	10	23	19	14	17	54	29	23	M16	75	19	JIS 40	
	50	393.55-50 M24-45	0		38	23	17	25	85	45	35	M24	45	30		
	50	393.55-50 M24-60	0		38	23	17	25	85	45	35	M24	60	30		
	50	393.55-50 M24-90	0		38	23	17	25	85	45	35	M24	90	30		
	50	393.55C-50 M24-75	1	11.5	36	28	21	25	74	34	25	M24	75	30	JIS 50	

Inch

				Dimensions, inch												
Machine design	Taper	Ordering code	Coolant ¹⁾	d_{ch}	D_1	D_{21}	D_{22}	D_{23}	l_2	l_{21}	l_{23}	d_{th}	α	B_{KW}	Info	
CAT-V	40	393.45-40 5/8-45-1	0	.940	.590	.390			2.120	1.260	.990	5/8"-11	45	.750		
	40	393.45-40 5/8-45-2	0	.940	.591	.394	.641		2.250	1.266	.990	5/8"-11	45	.750		
	40	393.45-40 5/8-90	0	.860	.590	.390			2.140	1.280	.990	5/8"-11	90	.690		
	40	393.45C-40 5/8-45-1	1	.281	.940	.740	.490		1.500	.640	.440	5/8"-11	45	.750		
	40	393.45C-40 5/8-45-2	1	.197	.940	.590	.390		2.120	1.260	.990	5/8"-11	45	.751		
	40	393.45C-40 5/8-45-3	1	.236	.858	.740	.490		1.624	.640	.440	5/8"-11	45	.750		
	40	393.45C-40 5/8-75	1	.276	.900	.744	.550		1.880	1.020	.790	5/8"-11	75	.740		
	40	393.45C-40 M16-45-1	1	.276	.860	.739	.490	.669	1.624	.640	.440	M16	45	.750		
	40	393.45C-40 M16-45-2	1	.252	.866	.740	.490	.669	1.736	.752	.552	M16	45	.750		
	50	393.45-50 1-90	0		1.370	.900	.670		3.070	1.770	1.380	1"-8	90	1.190		
	50	393.45C-50 1-45-1	1	.468	1.440	1.140	.820		2.300	1.000	.700	1"-8	45	1.250		
	50	393.45C-50 1-45-2	1	.250	1.370	.900	.660		3.090	1.790	1.380	1"-8	45	1.190		
	50	393.45C-50 1-45-3	1	.394	1.437	1.140	.820		2.575	1.000	.700	1"-8	45	1.250		
	50	393.45C-50 1-45-4	1	.468	1.430	1.140	.820	1.030	2.300	1.000	.700	1"-8	45	1.250		
	50	393.45C-50 1-60 ³⁾	1	.240	1.500	.910	.670	1.020	3.250	1.770	1.380	1"-8	60	1.180		
	50	393.45C-50 M24-45	1	.394	1.437	1.140	.820	.984	2.575	1.000	.700	M24	45	1.180		

1) 0 = no coolant, 1 = coolant through centre

2) With O-ring 2.5x20mm

3) With O-ring 3x20mm

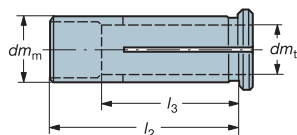
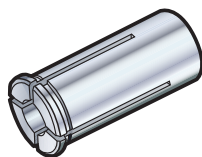
Warning!

Machine tool manufacturers have used many various styles and sizes of retention knobs. They often look very similar and appear to be interchangeable. The use of the incorrect knob, or the incorrect use of a knob, may result in injury or property damage. We try to ensure that we specify the correct knob, but due to the variety, it is the responsibility of the end user to check that the supplied knobs are correct for the machine tool and taper type.

Be sure to fully tighten the retention knob. Failure to do so may result in the tool holder coming loose during operation.

Cylindrical collets for Hydro-Grip®

Sealed
393.CGS



l_3 = clamping length required to achieve sealing effect.

Metric bore

Inch bore

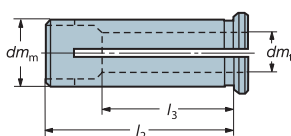
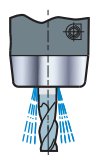
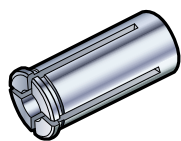
Collet size	Ordering code	Dimensions, mm				Collet size	Ordering code	Dimensions, mm (inch)				
		dm_t	dm_m	l_2	l_3			dm_t	dm_m	l_2	l_3	
12	393.CGS-12 03 40	3	12	40	25	12	A393.CGS-12 02 40	3.175 (1/8)	.472	1.575	1.024	
	393.CGS-12 04 40	4	12	40	25		A393.CGS-12 03 40	4.763 (3/16)	.472	1.575	1.063	
	393.CGS-12 05 40	5	12	40	25		A393.CGS-12 04 40	6.35 (1/4)	.472	1.575	1.102	
	393.CGS-12 06 40	6	12	40	32		A393.CGS-12 05 40	7.938 (5/16)	.472	1.575	1.575	
	393.CGS-12 07 40	7	12	40	33		A393.CGS-12 06 40	9.525 (3/8)	.472	1.575	1.575	
	393.CGS-12 08 40	8	12	40	33							
	393.CGS-12 09 40	9	12	40	33							
20	393.CGS-12 10 40	10	12	40	36	20	A393.CGS-20 02 52	3.175 (1/8)	.787	1.969	1.024	
	393.CGS-20 03 52	3	20	50	24		A393.CGS-20 03 52	4.763 (3/16)	.787	1.969	1.024	
	393.CGS-20 04 52	4	20	50	24		A393.CGS-20 04 52	6.35 (1/4)	.787	1.969	1.024	
	393.CGS-20 05 52	5	20	50	24		A393.CGS-20 05 52	7.938 (5/16)	.787	1.969	1.575	
	393.CGS-20 06 52	6	20	50	32		A393.CGS-20 06 52	9.525 (3/8)	.787	1.969	1.575	
	393.CGS-20 07 52	7	20	50	33		A393.CGS-20 07 52	11.113 (7/16)	.787	1.969	1.575	
	393.CGS-20 08 52	8	20	50	33		A393.CGS-20 08 52	12.7 (1/2)	.787	1.969	1.575	
	393.CGS-20 09 52	9	20	50	34		A393.CGS-20 09 52	14.288 (9/16)	.787	1.969	1.575	
	393.CGS-20 10 52	10	20	50	36		A393.CGS-20 10 52	15.875 (5/8)	.787	1.969	1.772	
	393.CGS-20 12 52	12	20	50	36							
25	393.CGS-20 14 52	14	20	50	41	25	A393.CGS-25 02 56	3.175 (1/8)	.984	2.205	.984	
	393.CGS-20 16 52	16	20	50	41		A393.CGS-25 03 56	4.763 (3/16)	.984	2.205	.984	
	393.CGS-20 18 52	18	20	50	44		A393.CGS-25 04 56	6.35 (1/4)	.984	2.205	1.299	
	393.CGS-25 03 56	3	25	56	25		A393.CGS-25 05 56	7.938 (5/16)	.984	2.205	1.299	
	393.CGS-25 04 56	4	25	56	25		A393.CGS-25 06 56	9.525 (3/8)	.984	2.205	1.339	
	393.CGS-25 05 56	5	25	56	25		A393.CGS-25 07 56	11.113 (7/16)	.984	2.205	1.417	
	393.CGS-25 06 56	6	25	56	33		A393.CGS-25 08 56	12.7 (1/2)	.984	2.205	1.654	
	393.CGS-25 07 56	7	25	56	33		A393.CGS-25 09 56	14.288 (9/16)	.984	2.205	1.693	
	393.CGS-25 08 56	8	25	56	33		A393.CGS-25 10 56	15.875 (5/8)	.984	2.205	1.732	
	393.CGS-25 09 56	9	25	56	34		A393.CGS-25 11 56	17.463 (11/16)	.984	2.205	1.772	
32	393.CGS-25 10 56	10	25	56	36	32	A393.CGS-25 12 56	19.05 (3/4)	.984	2.205	1.772	
	393.CGS-25 12 56	12	25	56	42		A393.CGS-25 13 56	20.638 (13/16)	.984	2.205	1.811	
	393.CGS-25 14 56	14	25	56	43							
	393.CGS-25 16 56	16	25	56	44		A393.CGS-32 03 60	4.763 (3/16)	1.260	2.362	1.024	
	393.CGS-25 18 56	18	25	56	44		A393.CGS-32 04 60	6.35 (1/4)	1.260	2.362	1.024	
	393.CGS-25 20 56	20	25	56	45		A393.CGS-32 05 60	7.938 (5/16)	1.260	2.362	1.575	
	393.CGS-32 07 60	7	32	60	33		A393.CGS-32 06 60	9.525 (3/8)	1.260	2.362	1.575	
	393.CGS-32 08 60	8	32	60	33		A393.CGS-32 07 60	11.113 (7/16)	1.260	2.362	1.575	
	393.CGS-32 09 60	9	32	60	33		A393.CGS-32 08 60	12.7 (1/2)	1.260	2.362	1.575	
	393.CGS-32 10 60	10	32	60	36		A393.CGS-32 09 60	14.288 (9/16)	1.260	2.362	1.575	
	393.CGS-32 12 60	12	32	60	41		A393.CGS-32 10 60	15.875 (5/8)	1.260	2.362	1.575	
	393.CGS-32 14 60	14	32	60	42		A393.CGS-32 11 60	17.463 (11/16)	1.260	2.362	1.575	
	393.CGS-32 16 60	16	32	60	44		A393.CGS-32 12 60	19.05 (3/4)	1.260	2.362	1.575	
	393.CGS-32 18 60	18	32	60	45		A393.CGS-32 13 60	20.638 (13/16)	1.260	2.362	1.575	
	393.CGS-32 20 60	20	32	60	46		A393.CGS-32 14 60	22.225 (7/8)	1.260	2.362	1.575	
	393.CGS-32 25 60	25	32	60	47		A393.CGS-32 15 60	23.813 (15/16)	1.260	2.362	1.575	
							A393.CGS-32 16 60	25.4 (1)	1.260	2.362	1.772	

For extractors for cylindrical collets, see page G137

Cylindrical collets for Hydro-Grip®

Slitted

393.CG



Metric bore

Inch bore

Collet size	Ordering code	Dimensions, mm				Collet size	Bore size (inch)	Ordering code	Dimensions, inch			
		dm_t	dm_m	l_2	l_3				dm_t	dm_m	l_2	l_3
12	393.CG-12 03 40	3	12	40	25	12	1/4	A393.CG-12 04 40	.250	.4724	1.5748	.9843
	393.CG-12 04 40	4	12	40	25			A393.CG-12 06 40	.375	.4724	1.5748	.9843
	393.CG-12 05 40	5	12	40	25							
	393.CG-12 06 40	6	12	40	32							
	393.CG-12 07 40	7	12	40	33							
	393.CG-12 08 40	8	12	40	33							
	393.CG-12 09 40	9	12	40	33							
16	393.CG-12 10 40	10	12	40	36	16						
	393.CG-16 06 50	6	16	50	32							
	393.CG-16 08 50	8	16	50	32							
	393.CG-16 10 50	10	16	50	36							
	393.CG-16 12 50	12	16	50	36							
20	393.CG-20 03 52	3	20	50	24	20	1/4	A393.CG-20 04 52	.250	.7874	2.0472	.9843
	393.CG-20 04 52	4	20	50	24			A393.CG-20 06 52	.375	.7874	2.0472	1.2598
	393.CG-20 05 52	5	20	50	24			A393.CG-20 08 52	.500	.7874	2.0472	1.2992
	393.CG-20 06 52	6	20	50	32			A393.CG-20 10 52	.625	.7874	2.0472	1.4173
	393.CG-20 07 52	7	20	50	33							
	393.CG-20 08 52	8	20	50	33							
	393.CG-20 09 52	9	20	50	34							
	393.CG-20 10 52	10	20	50	36							
	393.CG-20 12 52	12	20	50	41							
	393.CG-20 14 52	14	20	50	41							
	393.CG-20 16 52	16	20	50	44							
25	393.CG-25 03 56	3	25	56	25	25	1/4	A393.CG-25 04 56	.250	.9843	2.2047	.9843
	393.CG-25 04 56	4	25	56	25			A393.CG-25 06 56	.375	.9843	2.2047	1.2992
	393.CG-25 05 56	5	25	56	25			A393.CG-25 08 56	.500	.9843	2.2047	1.2992
	393.CG-25 06 56	6	25	56	33			A393.CG-25 10 56	.625	.9843	2.2047	1.4173
	393.CG-25 07 56	7	25	56	33			A393.CG-25 12 56	.625	.9843	2.2047	1.6535
	393.CG-25 08 56	8	25	56	33							
	393.CG-25 09 56	9	25	56	34							
	393.CG-25 10 56	10	25	56	36							
	393.CG-25 12 56	12	25	56	42							
	393.CG-25 14 56	14	25	56	43							
	393.CG-25 16 56	16	25	56	44							
	393.CG-25 18 56	18	25	56	44							
	393.CG-25 20 56	20	25	56	46							
32	393.CG-32 06 60	6	32	60	26	32	1/4	A393.CG-32 04 60	.2500	1.2598	2.7559	1.2598
	393.CG-32 07 60	7	32	60	40			A393.CG-32 06 60	.3750	1.2598	2.7559	1.2992
	393.CG-32 08 60	8	32	60	40			A393.CG-32 08 60	.5000	1.2598	2.7559	1.6142
	393.CG-32 09 60	9	32	60	40			A393.CG-32 10 60	.6250	1.2598	2.7559	1.6535
	393.CG-32 10 60	10	32	60	40			A393.CG-32 12 60	.7500	1.2598	2.7559	1.8110
	393.CG-32 12 60	12	32	60	40			A393.CG-32 16 60	1.4000	1.2598	2.7559	2.0472
	393.CG-32 14 60	14	32	60	40							
	393.CG-32 16 60	16	32	60	40							
	393.CG-32 18 60	18	32	60	40							
	393.CG-32 20 60	20	32	60	40							
	393.CG-32 25 60	25	32	60	45							

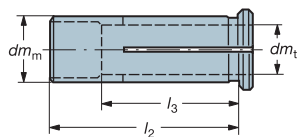
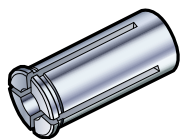
For extractors for cylindrical collets, see page G137

Cylindrical collets for CoroGrip®

Inch bore

Sealed

A393.CGS



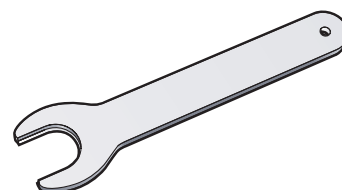
l_3 = clamping length required to achieve sealing effect.

Inch bore

Collet size	Ordering code	Dimensions, inch			
		dm_t	dm_m	l_2	l_3
13	A393.CGS-13 02 40	.125 (1/8)	.500	1.575	.984
	A393.CGS-13 03 40	.187 (3/16)	.500	1.575	.984
	A393.CGS-13 04 40	.250 (1/4)	.500	1.575	1.260
	A393.CGS-13 05 40	.312 (5/16)	.500	1.575	1.299
	A393.CGS-13 06 40	.375 (3/8)	.500	1.575	1.417
15	A393.CGS-15 04 50	.250 (1/4)	.625	1.969	1.260
	A393.CGS-15 05 50	.312 (5/16)	.625	1.969	1.260
	A393.CGS-15 06 50	.375 (3/8)	.625	1.969	1.417
	A393.CGS-15 08 50	.500 (1/2)	.625	1.969	1.417
19	A393.CGS-19 02 52	.125 (1/8)	.750	2.047	1.023
	A393.CGS-19 03 52	.187 (3/16)	.750	2.047	1.023
	A393.CGS-19 04 52	.250 (1/4)	.750	2.047	1.023
	A393.CGS-19 05 52	.312 (5/16)	.750	2.047	1.575
	A393.CGS-19 06 52	.375 (3/8)	.750	2.047	1.575
	A393.CGS-19 07 52	.437 (7/16)	.750	2.047	1.575
	A393.CGS-19 08 52	.500 (1/2)	.750	2.047	1.575
	A393.CGS-19 09 52	.562 (9/16)	.750	2.047	1.575
	A393.CGS-19 10 52	.625 (5/8)	.750	2.047	1.772
	A393.CGS-19 11 52	.687 (11/16)	.750	2.047	1.772
26	A393.CGS-26 02 56	.125 (1/8)	1.000	2.205	.984
	A393.CGS-26 03 56	.187 (3/16)	1.000	2.205	.984
	A393.CGS-26 04 56	.250 (1/4)	1.000	2.205	1.299
	A393.CGS-26 05 56	.312 (5/16)	1.000	2.205	1.299
	A393.CGS-26 06 56	.375 (3/8)	1.000	2.205	1.339
	A393.CGS-26 07 56	.437 (7/16)	1.000	2.205	1.417
	A393.CGS-26 08 56	.500 (1/2)	1.000	2.205	1.654
	A393.CGS-26 09 56	.562 (9/16)	1.000	2.205	1.693
	A393.CGS-26 10 56	.625 (5/8)	1.000	2.205	1.732
	A393.CGS-26 11 56	.687 (11/16)	1.000	2.205	1.732
31	A393.CGS-31 02 60	.125 (1/8)	1.250	2.362	1.023
	A393.CGS-31 03 60	.187 (3/16)	1.250	2.362	1.023
	A393.CGS-31 04 60	.250 (1/4)	1.250	2.362	1.575
	A393.CGS-31 05 60	.312 (5/16)	1.250	2.362	1.575
	A393.CGS-31 06 60	.375 (3/8)	1.250	2.362	1.575
	A393.CGS-31 07 60	.437 (7/16)	1.250	2.362	1.575
	A393.CGS-31 08 60	.500 (1/2)	1.250	2.362	1.575
	A393.CGS-31 09 60	.562 (9/16)	1.250	2.362	1.575
	A393.CGS-31 10 60	.625 (5/8)	1.250	2.362	1.575
	A393.CGS-31 11 60	.687 (11/16)	1.250	2.362	1.575
32	A393.CGS-32 02 60	.125 (1/8)	1.500	2.520	1.023
	A393.CGS-32 03 60	.187 (3/16)	1.500	2.520	1.023

Extractor for cylindrical collets

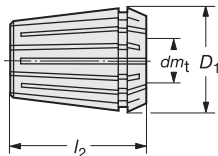
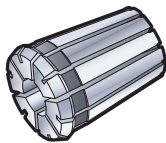
Extractor	For collet size	
	Metric	Inch
5680 061-01	12	13 (1/2")
5680 061-02	16	15 (5/8")
5680 061-03	20	19 (3/4")
5680 061-04	25	26 (1")
5680 061-05	32	31 (1 1/4")



ER collets

DIN 6499-B

393.14



Size	D_1		l_2	
	mm	Inch	mm	Inch
ER11	11.4	.449	18	.709
ER16	17	.669	27.5	1.062
ER20	21	.827	31.5	1.240
ER25	26	1.024	34	1.330
ER32	33	1.291	40	1.575
ER40	41	1.614	46	1.811
ER50	52	2.047	60	2.362

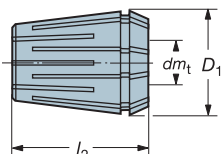
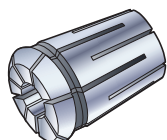
Size 11			Size 16			Size 20			Size 25		
Range			Range			Range			Range		
mm	dm_1 inch	Ordering code	mm	dm_1 inch	Ordering code	mm	dm_1 inch	Ordering code	mm	dm_1 inch	Ordering code
1.00-0.75	.039-.030	393.14-11 0100	1.0-0.5	.039-.020	393.14-16 0100	1.5-1.0	.059-.039	393.14-20 015	2.0-1.5	.079-.059	393.14-25 020
1.25-1.00	.049-.039	393.14-11 0125	1.5-1.0	.059-.039	393.14-16 0150	2.0-1.5	.079-.059	393.14-20 020	2.5-2.0	.098-.079	393.14-25 025
1.50-1.25	.059-.049	393.14-11 0150	2.0-1.0	.079-.039	393.14-16 0200	2.5-2.0	.098-.079	393.14-20 025	3.0-2.5	.118-.098	393.14-25 030
1.75-1.50	.069-.059	393.14-11 0175	2.5-1.5	.098-.059	393.14-16 0250	3.0-2.5	.118-.098	393.14-20 030	4.0-3.0	.157-.118	393.14-25 040
2.00-1.75	.079-.069	393.14-11 0200	3.0-2.0	.118-.079	393.14-16 0300	4.0-3.0	.157-.118	393.14-20 040	5.0-4.0	.197-.157	393.14-25 050
2.25-2.00	.089-.079	393.14-11 0225	4.0-3.0	.157-.118	393.14-16 0400	5.0-4.0	.197-.157	393.14-20 050	6.0-5.0	.236-.197	393.14-25 060
2.50-2.25	.098-.089	393.14-11 0250	5.0-4.0	.197-.157	393.14-16 0500	6.0-5.0	.236-.197	393.14-20 060	7.0-6.0	.275-.236	393.14-25 070
3.00-2.50	.118-.098	393.14-11 0300	6.0-5.0	.236-.197	393.14-16 0600	7.0-6.0	.275-.236	393.14-20 070	8.0-7.0	.315-.275	393.14-25 080
3.50-3.00	.138-.118	393.14-11 0350	7.0-6.0	.276-.236	393.14-16 0700	8.0-7.0	.315-.275	393.14-20 080	9.0-8.0	.354-.315	393.14-25 090
4.00-3.50	.157-.138	393.14-11 0400	8.0-7.0	.315-.276	393.14-16 0800	9.0-8.0	.354-.315	393.14-20 090	10.0-9.0	.394-.354	393.14-25 100
4.50-4.00	.177-.157	393.14-11 0450	9.0-8.0	.354-.315	393.14-16 0900	10.0-9.0	.394-.354	393.14-20 100	11.0-10.0	.433-.394	393.14-25 110
5.00-4.50	.197-.177	393.14-11 0500	10.0-9.0	.394-.354	393.14-16 1000	11.0-10.0	.433-.394	393.14-20 110	12.0-11.0	.472-.433	393.14-25 120
5.50-5.00	.217-.197	393.14-11 0550				12.0-11.0	.472-.433	393.14-20 120	13.0-12.0	.512-.472	393.14-25 130
6.00-5.50	.236-.217	393.14-11 0600				13.0-12.0	.512-.472	393.14-20 130	14.0-13.0	.551-.512	393.14-25 140
6.50-6.00	.256-.236	393.14-11 0650							15.0-14.0	.591-.551	393.14-25 150
7.00-6.50	.276-.256	393.14-11 0700							16.0-15.0	.630-.591	393.14-25 160

Size 32			Size 40			Size 50		
Range			Range			Range		
mm	dm_1 inch	Ordering code	mm	dm_1 inch	Ordering code	mm	dm_1 inch	Ordering code
2.5- 2.0	.098-.079	393.14-32 025	4.0- 3.0	.157-.118	393.14-40 040	8.0- 6.0	.315-.236	393.14-50 080
3.0- 2.5	.118-.098	393.14-32 030	5.0- 4.0	.197-.157	393.14-40 050	10.0- 8.0	.394-.315	393.14-50 100
4.0- 3.0	.157-.118	393.14-32 040	6.0- 5.0	.236-.197	393.14-40 060	12.0-10.0	.472-.394	393.14-50 120
5.0- 4.0	.197-.157	393.14-32 050	7.0- 6.0	.275-.236	393.14-40 070	14.0-12.0	.551-.472	393.14-50 140
6.0- 5.0	.236-.197	393.14-32 060	8.0- 7.0	.315-.275	393.14-40 080	16.0-14.0	.630-.551	393.14-50 160
7.0- 6.0	.275-.236	393.14-32 070	9.0- 8.0	.354-.315	393.14-40 090	18.0-16.0	.709-.630	393.14-50 180
8.0- 7.0	.315-.275	393.14-32 080	10.0- 9.0	.394-.354	393.14-40 100	20.0-18.0	.787-.709	393.14-50 200
9.0- 8.0	.354-.315	393.14-32 090	11.0-10.0	.433-.394	393.14-40 110	22.0-20.0	.866-.787	393.14-50 220
10.0- 9.0	.394-.354	393.14-32 100	12.0-11.0	.472-.433	393.14-40 120	24.0-22.0	.945-.866	393.14-50 240
11.0-10.0	.433-.394	393.14-32 110	13.0-12.0	.512-.472	393.14-40 130	26.0-24.0	1.024-.945	393.14-50 260
12.0-11.0	.472-.433	393.14-32 120	14.0-13.0	.551-.512	393.14-40 140	28.0-26.0	1.102-1.024	393.14-50 280
13.0-12.0	.512-.472	393.14-32 130	15.0-14.0	.591-.551	393.14-40 150	30.0-28.0	1.181-1.102	393.14-50 300
14.0-13.0	.551-.512	393.14-32 140	16.0-15.0	.630-.591	393.14-40 160	32.0-30.0	1.260-1.181	393.14-50 320
15.0-14.0	.591-.551	393.14-32 150	17.0-16.0	.669-.630	393.14-40 170	34.0-32.0	1.339-1.260	393.14-50 340
16.0-15.0	.630-.591	393.14-32 160	18.0-17.0	.709-.669	393.14-40 180			
17.0-16.0	.699-.630	393.14-32 170	19.0-18.0	.748-.709	393.14-40 190			
18.0-17.0	.709-.669	393.14-32 180	20.0-19.0	.787-.748	393.14-40 200			
19.0-18.0	.748-.709	393.14-32 190	21.0-20.0	.827-.787	393.14-40 210			
20.0-19.0	.787-.748	393.14-32 200	22.0-21.0	.866-.827	393.14-40 220			
			23.0-22.0	.906-.866	393.14-40 230			
			24.0-23.0	.945-.906	393.14-40 240			
			25.0-24.0	.984-.945	393.14-40 250			
			26.0-25.0	1.024-.984	393.14-40 260			

ER collets, metallic sealed

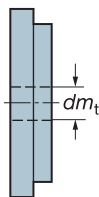
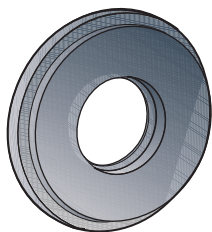
393.15
A393.15

- High precision run out to $\leq 6 \mu\text{m}$
- HPC applicable



Metric				Dimensions, mm						Inch				Dimensions, inch					
Collet size	d_{m1} mm max min		Ordering code	D_1	l_2	Tightening torque Nm.	Collet size	d_{m1} inch max min		Ordering code	D_1	l_2	Tightening torque, ft-lbs						
16	3	2.97	393.15-16 03	17	27.5	20	16	1/8	.125	.1170	A393.15-16 1/8	.669	1.082	14					
	4	3.97	393.15-16 04	17	27.5	40		5/32	.157	.1560	A393.15-16 5/32	.669	1.082	29					
	5	4.5	393.15-16 05	17	27.5	40		3/16	.188	.1770	A393.15-16 3/16	.669	1.082	41					
	6	5.5	393.15-16 06	17	27.5	56		1/4	.250	.2303	A393.15-16 1/4	.669	1.082	41					
	8	7.5	393.15-16 08	17	27.5	56		5/16	.3125	.2929	A393.15-16 5/16	.669	1.082	41					
	10	9.5	393.15-16 10	17	27.5	56		3/8	.375	.3556	A393.15-16 3/8	.669	1.082	41					
20	3	2.97	393.15-20 03	21	31.5	32	20	1/8	.125	.1170	A393.15-20 1/8	.827	1.240	23					
	4	3.97	393.15-20 04	21	31.5	32		5/32	.157	.1560	A393.15-20 5/32	.827	1.240	23					
	5	4.97	393.15-20 05	21	31.5	32		3/16	.188	.1960	A393.15-20 3/16	.827	1.240	23					
	6	5.97	393.15-20 06	21	31.5	32		1/4	.250	.2488	A393.15-20 1/4	.827	1.240	23					
	8	7.5	393.15-20 08	21	31.5	80		5/16	.3125	.2929	A393.15-20 5/16	.827	1.240	54					
	10	9.5	393.15-20 10	21	31.5	80		3/8	.375	.3556	A393.15-20 3/8	.827	1.240	54					
25	12	11.5	393.15-20 12	21	31.5	80	25	1/2	.500	.4803	A393.15-20 1/2	.827	1.240	54					
	6	5.97	393.15-25 06	26	34	80		1/4	.250	.2488	A393.15-25 1/4	1.024	1.339	59					
	8	7.5	393.15-25 08	26	34	80		5/16	.3125	.2929	A393.15-25 5/16	1.024	1.339	59					
	10	9.5	393.15-25 10	26	34	104		3/8	.375	.3556	A393.15-25 3/8	1.024	1.339	76					
	12	11.5	393.15-25 12	26	34	104		1/2	.500	.4803	A393.15-25 1/2	1.024	1.339	76					
	14	13.5	393.15-25 14	26	34	104		5/8	.625	.6055	A393.15-25 5/8	1.024	1.339	76					
32	16	15.5	393.15-25 16	26	34	104	32												
	6	5.97	393.15-32 06	33	40	136		1/4	.250	.2488	A393.15-32 1/4	1.291	1.575	100					
	8	7.5	393.15-32 08	33	40	136		5/16	.3125	.2929	A393.15-32 5/16	1.291	1.575	100					
	10	9.5	393.15-32 10	33	40	136		3/8	.375	.3556	A393.15-32 3/8	1.291	1.575	100					
	12	11.5	393.15-32 12	33	40	136		1/2	.500	.4803	A393.15-32 1/2	1.291	1.575	100					
	14	13.5	393.15-32 14	33	40	136		5/8	.625	.6055	A393.15-32 5/8	1.291	1.575	100					
40	16	15.5	393.15-32 16	33	40	136	40	3/4	.750	.7303	A393.15-32 3/4	1.291	1.575	100					
	18	17.5	393.15-32 18	33	40	136													
	20	19.5	393.15-32 20	33	40	136													
	6	5.97	393.15-40 06	41	46	176		1/4	.250	.2488	A393.15-40 1/4	1.614	1.811	120					
	8	7.97	393.15-40 08	41	46	176		5/16	.3125	.3111	A393.15-40 5/16	1.614	1.811	120					
	10	9.5	393.15-40 10	41	46	176		3/8	.375	.3556	A393.15-40 3/8	1.614	1.811	120					
40	12	11.5	393.15-40 12	41	46	176	1/2	.500	.4803	A393.15-40 1/2	1.614	1.811	120						
	14	13.5	393.15-40 14	41	46	176	5/8	.625	.6055	A393.15-40 5/8	1.614	1.811	120						
	16	15.5	393.15-40 16	41	46	176	3/4	.750	.7303	A393.15-40 3/4	1.614	1.811	120						
	18	17.5	393.15-40 18	41	46	176	1	.1000	.9646	A393.15-40 1	1.614	1.811	120						
	20	19.5	393.15-40 20	41	46	176													
	25	24.5	393.15-40 25	41	46	176													

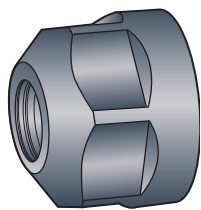
ER Collet sealing discs



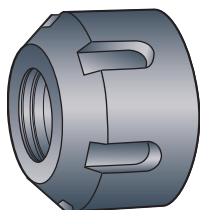
0.5 mm (.020 inch) capacity per disc. Max 150 bar (2000 psi) coolant pressure.

Size 16			Size 25			Size 32			Size 40		
Range, mm (inch)	Ordering code		Range, mm (inch)	Ordering code		Range, mm (inch)	Ordering code		Range, mm (inch)	Ordering code	
dm_t			dm_t			dm_t			dm_t		
3.0-2.5 (.118-.098)	3916.00300		3.0-2.5 (.118-.098)	3925.00300		3.0-2.5 (.118-.098)	3932.00300		3.0-2.5 (.118-.098)	3940.00300	
3.5-3.0 (.138-.118)	3916.00350		3.5-3.0 (.138-.118)	3925.00350		3.5-3.0 (.138-.118)	3932.00350		3.5-3.0 (.138-.118)	3940.00350	
4.0-3.5 (.157-.138)	3916.00400		4.0-3.5 (.157-.138)	3925.00400		4.0-3.5 (.157-.138)	3932.00400		4.0-3.5 (.157-.138)	3940.00400	
4.5-4.0 (.177-.157)	3916.00450		4.5-4.0 (.177-.157)	3925.00450		4.5-4.0 (.177-.157)	3932.00450		4.5-4.0 (.177-.157)	3940.00450	
5.0-4.5 (.197-.177)	3916.00500		5.0-4.5 (.197-.177)	3925.00500		5.0-4.5 (.197-.177)	3932.00500		5.0-4.5 (.197-.177)	3940.00500	
5.5-5.0 (.217-.197)	3916.00550		5.5-5.0 (.217-.197)	3925.00550		5.5-5.0 (.217-.197)	3932.00550		5.5-5.0 (.217-.197)	3940.00550	
6.0-5.5 (.236-.217)	3916.00600		6.0-5.5 (.236-.217)	3925.00600		6.0-5.5 (.236-.217)	3932.00600		6.0-5.5 (.236-.217)	3940.00600	
6.5-6.0 (.256-.236)	3916.00650		6.5-6.0 (.256-.236)	3925.00650		6.5-6.0 (.256-.236)	3932.00650		6.5-6.0 (.256-.236)	3940.00650	
7.0-6.5 (.276-.256)	3916.00700		7.0-6.5 (.276-.256)	3925.00700		7.0-6.5 (.276-.256)	3932.00700		7.0-6.5 (.276-.256)	3940.00700	
7.5-7.0 (.295-.276)	3916.00750		7.5-7.0 (.295-.276)	3925.00750		7.5-7.0 (.295-.276)	3932.00750		7.5-7.0 (.295-.276)	3940.00750	
8.0-7.5 (.315-.295)	3916.00800		8.0-7.5 (.315-.295)	3925.00800		8.0-7.5 (.315-.295)	3932.00800		8.0-7.5 (.315-.295)	3940.00800	
8.5-8.0 (.335-.315)	3916.00850		8.5-8.0 (.335-.315)	3925.00850		8.5-8.0 (.335-.315)	3932.00850		8.5-8.0 (.335-.315)	3940.00850	
9.0-8.5 (.354-.335)	3916.00900		9.0-8.5 (.354-.335)	3925.00900		9.0-8.5 (.354-.335)	3932.00900		9.0-8.5 (.354-.335)	3940.00900	
9.5-9.0 (.374-.354)	3916.00950		9.5-9.0 (.374-.354)	3925.00950		9.5-9.0 (.374-.354)	3932.00950		9.5-9.0 (.374-.354)	3940.00950	
10.0-9.5 (.394-.374)	3916.01000		10.0-9.5 (.394-.374)	3925.01000		10.0-9.5 (.394-.374)	3932.01000		10.0-9.5 (.394-.374)	3940.01000	
			10.5-10.0 (.413-.394)	3925.01050		10.5-10.0 (.413-.394)	3932.01050		10.5-10.0 (.413-.394)	3940.01050	
			11.0-10.5 (.433-.413)	3925.01100		11.0-10.5 (.433-.413)	3932.01100		11.0-10.5 (.433-.413)	3940.01100	
			11.5-11.0 (.453-.433)	3925.01150		11.5-11.0 (.453-.433)	3932.01150		11.5-11.0 (.453-.433)	3940.01150	
			12.0-11.5 (.472-.453)	3925.01200		12.0-11.5 (.472-.453)	3932.01200		12.0-11.5 (.472-.453)	3940.01200	
			12.5-12.0 (.492-.472)	3925.01250		12.5-12.0 (.492-.472)	3932.01250		12.5-12.0 (.492-.472)	3940.01250	
			13.0-12.5 (.512-.492)	3925.01300		13.0-12.5 (.512-.492)	3932.01300		13.0-12.5 (.512-.492)	3940.01300	
			13.5-13.0 (.531-.512)	3925.01350		13.5-13.0 (.531-.512)	3932.01350		13.5-13.0 (.531-.512)	3940.01350	
			14.0-13.5 (.551-.531)	3925.01400		14.0-13.5 (.551-.531)	3932.01400		14.0-13.5 (.551-.531)	3940.01400	
			14.5-14.0 (.571-.551)	3925.01450		14.5-14.0 (.571-.551)	3932.01450		14.5-14.0 (.571-.551)	3940.01450	
			15.0-14.5 (.591-.571)	3925.01500		15.0-14.5 (.591-.571)	3932.01500		15.0-14.5 (.591-.571)	3940.01500	
			15.5-15.0 (.610-.591)	3925.01550		15.5-15.0 (.610-.591)	3932.01550		15.5-15.0 (.610-.591)	3940.01550	
			16.0-15.5 (.630-.610)	3925.01600		16.0-15.5 (.630-.610)	3932.01600		16.0-15.5 (.630-.610)	3940.01600	
						16.5-16.0 (.650-.630)	3932.01650		16.5-16.0 (.650-.630)	3940.01650	
						17.0-16.5 (.669-.650)	3932.01700		17.0-16.5 (.669-.650)	3940.01700	
						17.5-17.0 (.689-.669)	3932.01750		17.5-17.0 (.689-.669)	3940.01750	
						18.0-17.5 (.709-.689)	3932.01800		18.0-17.5 (.709-.689)	3940.01800	
						18.5-18.0 (.728-.709)	3932.01850		18.5-18.0 (.728-.709)	3940.01850	
						19.0-18.5 (.748-.728)	3932.01900		19.0-18.5 (.748-.728)	3940.01900	
						19.5-19.0 (.768-.748)	3932.01950		19.5-19.0 (.768-.748)	3940.01950	
						20.0-19.5 (.787-.768)	3932.02000		20.0-19.5 (.787-.768)	3940.02000	
									20.5-20.0 (.807-.787)	3940.02050	
									21.0-20.5 (.827-.807)	3940.02100	
									21.5-21.0 (.846-.827)	3940.02150	
									22.0-21.5 (.866-.846)	3940.02200	
									22.5-22.0 (.886-.866)	3940.02250	
									23.0-22.5 (.906-.886)	3940.02300	
									23.5-23.0 (.925-.906)	3940.02350	
									24.0-23.5 (.945-.925)	3940.02400	
									24.5-24.0 (.965-.945)	3940.02450	
									25.0-24.5 (.984-.965)	3940.02500	
									25.5-25.0 (1.004-.984)	3940.02550	
									26.0-25.5 (1.024-1.004)	3940.02600	

ER collet nuts for through-coolant



Size 16 and 20



Size 25, 32 and 40

Collet size	Ordering code	Spare parts			Thread size
		Wrench	O-ring		
ER16	5533 051-01	5680 091-01	5641005-085		M22 x 1.5
ER20	5533 051-02	5680 091-02	5641005-086		M25 x 1.5
ER25	5533 051-03	5680 096-02	5641005-087		M32 x 1.5
ER32	5533 051-04	5680 096-03	5641005-088		M40 x 1.5
ER40	5533 051-05	5680 096-04	5641005-089		M50 x 1.5

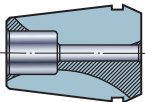
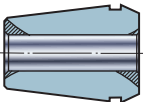
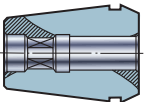
Assembly instructions for sealing discs for through-coolant nuts

Assembly

1. Locate the smallest outside diameter on the disc.
2. Insert the small diameter into the centre of the coolant nut and apply even pressure until the disc is properly seated into the nut.

Removal

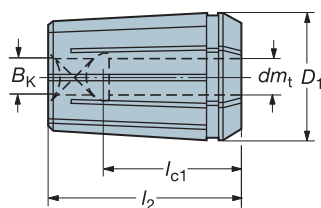
1. To remove the disc, simply press on the outside of the disc evenly until it snaps out.

Max.tightening torques ER collet nuts											
Collet nut	Collet size	ER Counterbore				ER Throughbore				ER Tapping	
											
		d_{m1} mm	Torque Nm	d_{m1} inch	Torque ft-lbs	d_{m1} mm	Torque Nm	d_{m1} inch	Torque ft-lbs	Torque Nm	Torque ft-lbs
5533 050-07	ER11	1.0-2.5	8	.039-.098	5	3.0-5.0	24	.118-.197	17	16	12
5533 050-06	ER16	1.0	8	.039	5	5.0-10.0	56	.197-.394	42	40	29
5533 051-01		1.5-3.5	24	.059-.138	17						
		4.0-4.5	24	.157-.177	17						
5533 050-08	ER20	1.0	16	.039	12	7.0-13.0	80	.276-.512	59	32	24
5533 051-02		1.5-6.5	32	.059-.256	24						
5533 050-02	ER25	1.0-3.5	24	.039-.138	17	8.0-16.0	104	.315-.630	77	104	77
5533 051-03		4.0-4.5	56	.157-.177	41						
		5.0-7.5	80	.197-.295	59						
5533 050-03	ER32	2.0-2.5	24	.079-.098	17	8.0-20.0	136	.315-.787	100	136	100
5533 051-04		3.0-7.5	136	.118-.295	100						
5533 050-04	ER40	3.0-8.5	176	.118-.335	129	9.0-26.0	176	.354-1.024	129	176	129
5533 051-05											
5533 050-05	ER50	6.0-10.0	240	.236-.394	177	12.0-	240	.472-1.339	177	300	220
5533 065-02	ER11	1.0-2.5	8	.039-.098	5	3.0-5.0	16	.118-.197	12	12	9
	ER16	1.0	16	.039	12	5.0-10.0	24	.197-.394	18	24	18
5533 065-03		1.5-3.5	24	.059-.138	17						
		4.0-4.5	24	.157-.177	17						
5533 065-01	ER20	1.0	16	.039	17	7.0-13.0	28	.276-.512	21	28	21
		1.5-6.5	32	.059-.256	24						
	ER25	1.0-3.5	24	.039-.138	17	8.0-16.0	33	.315-.630	24	28	24
		4.0-7.5	56	.157-.295	41						

ER tapping collets

Compatible with DIN 6499-B

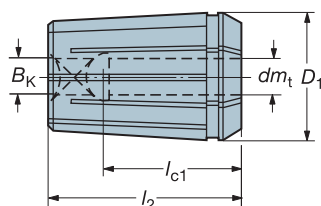
For metric standard taps



Collet size	Dimensions, mm	
	D_1	l_2
11	11.3	18
20	20.8	31.5
25	25.8	34
40	40.8	46

Collet tap size		Ordering code									
DIN	ISO	Collet size 11	l_{c1} mm	Collet size 20	l_{c1} mm	Collet size 25	l_{c1} mm	Collet size 40	l_{c1} mm	d_{m1} mm	B_K mm
M1-M1.8	M1-M2	393.14-11 D025X021	14							2.5	2.0
M2/M2.5		393.14-11 D028X021	12							2.8	2.1
M3/M5		393.14-11 D035X027	14							3.5	2.7
M3.5		393.14-11 D040X030	14							4.0	3.0
	M5/M4*	393.14-11 D040X0315	14	393.14-20 D040X0315	18			-		4.0	3.15
M4/M6		393.14-11 D045X034	14	393.14-20 D045X034	18			-		4.5	3.4
M5/M6	M5*	393.14-11 D050X040	14	393.14-20 D050X040	18			-		5.0	4.0
M5/M6/M8		393.14-11 D060X049	14	393.14-20 D060X049	18			-		6.0	4.9
	M8/M6*			393.14-20 D063X050	18			-		6.3	5.0
M7/M9/M10				393.14-20 D070X055	18			-		7.0	5.5
M8/M10	M10/M8*			393.14-20 D080X063	22	393.14-25 D080X063	18	-		8.0	6.3
M12	M12			393.14-20 D090X071	22	393.14-25 D090X071	18	-		9.0	7.1
	M10*			393.14-20 D100X080	25	393.14-25 D100X080	18	-		10.0	8.0
M14			-			393.14-25 D110X090	18	-		11.0	9.0
	M14		-			393.14-25 D112X090	18	-		11.2	9.0
M16			-			393.14-25 D120X090	18	393.14-40 D120X090	25	12.0	9.0
	M16		-			393.14-25 D125X100	22	393.14-40 D125X100	25	12.5	10.0
M18	M18/M20		-			393.14-25 D140X112	22	393.14-40 D140X112	25	14.0	11.2
M20			-			393.14-25 D160X120	25	-		16.0	12.0
M20	M22							393.14-40 D160X125	25	16.0	12.5
M22/24	M24							393.14-40 D180X145	25	18.0	14.5
M27	M27/M28/30							393.14-40 D200X160	28	20.0	16.0
M30/M32	M30							393.14-40 D220X180	28	22.0	18.0

For US standard taps



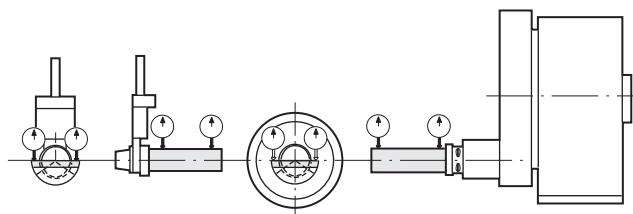
Collet size	Dimensions, inch	
	D_1	l_2
11	.445	.709
20	.819	1.240
25	1.016	1.339
40	1.606	1.811

Tap size		Ordering code									
Inch	Number	Collet size 11	l_{c1} inch	Collet size 20	l_{c1} inch	Collet size 25	l_{c1} inch	Collet size 40	l_{c1} inch	dm_k inch	B_k inch
	0-6	A393.14-11-0-6 NO	.551							.141	.110
	8	A393.14-11-8 NO	.551	A393.14-20-8 NO	.709					.168	.131
	10	A393.14-11-10 NO	.551	A393.14-20-10 NO	.709					.194	.152
	12			A393.14-20-12 NO	.709					.220	.165
1/4				A393.14-20-1/4	.709	A393.14-25-1/4	.709			.255	.191
5/16				A393.14-20-5/16	.866	A393.14-25-5/16	.866			.318	.238
3/8				A393.14-20-3/8	.866	A393.14-25-3/8	.866			.381	.286
7/16						A393.14-25-7/16	.866			.323	.242
1/2						A393.14-25-1/2	.866			.367	.275
9/16						A393.14-25-9/16	.984			.429	.322
5/8						A393.14-25-5/8	.984			.480	.360
3/4						A393.14-25-3/4	.984			.590	.442
5/8								A393.14-40-5/8	.984	.480	.360
3/4								A393.14-40-3/4	.984	.590	.442
7/8								A393.14-40-7/8	.984	.697	.523
1								A393.14-40-1	1.102	.800	.600

* Shank diameter enlarged, both tap sizes have the same shaft diameter.

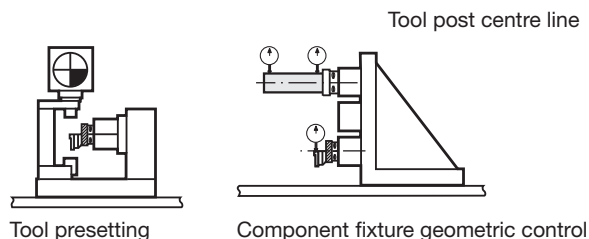
Master setting gauges

Checking position for grippers
Spindle orientation



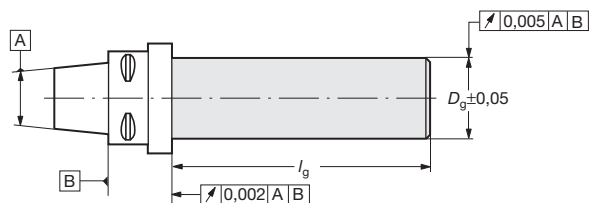
The Coromant Capto system guarantees exceptional, repeatable accuracy but this is of little use unless the various other components in the total machining process are correctly and accurately positioned. Coromant offers a range of axial and centre height master setting gauges for the various coupling sizes which are strongly recommended for setting important parameters such as:

- The centre line of the tool post
- Spindle orientation
- The position of the tool for grippers
- Tool centre height and cutting edge position (f_1 and l_1 dimensions). Gauges can be used in a pre-measuring fixture
- Component fixtures



Axial gauge

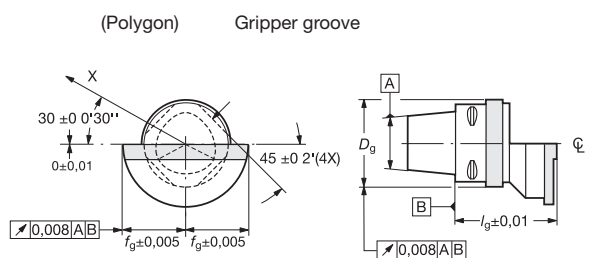
Master setting gauges MAS-11



	Ordering code	Dimensions, mm (inch)			
Coupling size		D_g	l_g		
C3	C3-MAS-11	25 (.98)	160 (6.30)		
C4	C4-MAS-11	25 (.98)	160 (6.30)		
C5	C5-MAS-11	32 (1.26)	210 (8.27)		
C6	C6-MAS-11	40 (1.57)	315 (12.40)		
C8	C8-MAS-11	40 (1.57)	315 (12.40)		
C10	C10-MAS-11	60 (2.362)	420 (16.535)		

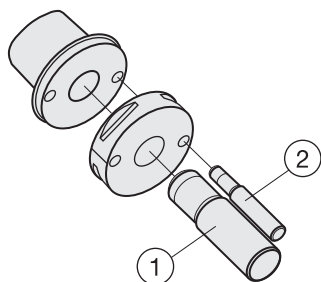
Centre height gauge

Master setting gauges MAS-01



	Ordering code	Dimensions, mm (inch)			
Coupling size		f_g	l_g	D_g	
C3	C3-MAS-01	22 (.87)	40 (1.57)	34 (1.34)	
C4	C4-MAS-01	27 (1.06)	50 (1.97)	42 (1.65)	
C5	C5-MAS-01	35 (1.38)	60 (2.36)	52 (2.05)	
C6	C6-MAS-01	45 (1.77)	65 (2.56)	65 (2.56)	
C8/C8X	C8-MAS-01	55 (2.17)	80 (3.15)	82 (3.23)	
C10	C10-MAS-01	65 (2.559)	10 (3.937)	102 (4.016)	

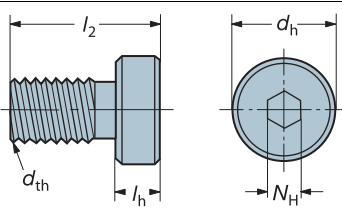
Alignment tool



This tool is used to check the Automatic Tool Change positioning tolerance between the gripper arm and magazine and the clamping unit/spindle. If the tolerance is not achieved the result can be abnormal wear on cutting tool or Coromant Capto interface, wrong clamping, dropped tools, personal injuries etc. Instructions and tolerances are available in the box together with the tool.

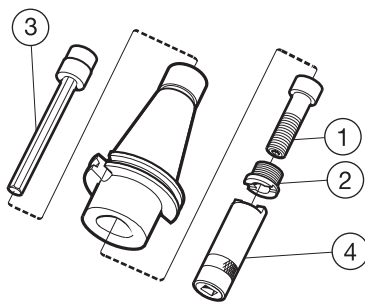
	Ordering code	Spare parts	
		1	2
Coupling size		Gauge pin	Gauge pin
C4	C4-AMT-01	5552 069-03	5552 069-01
C5	C5-AMT-01	5552 069-04	5552 069-01
C6	C6-AMT-01	5552 069-05	5552 069-02
C8	C8-AMT-01	5552 069-05	5552 069-02
C8X	C8X-AMT-01	5552 089-09	5552 069-08
C10	C10-AMT-01	5552 069-09	5552 069-08

Lockscrews for arbors

	Ordering code	Dimensions, inch				
		d_{th}	d_h	l_2	l_h	N_H
	5512 065-07	3/8"-24	7/8	1-1/16	3/8	1/4
	5512 065-02	3/8"-24	5/8	1-1/4	13/64	3/16
	5512 065-08	1/2"-20	13/16	1-1/16	3/8	5/16
	5512 065-05	1/2"-20	1-1/4	1-5/8	3/8	5/16
	5512 065-03	1/2"-20	13/16	1-3/4	11/32	5/16
	5512 065-09	5/8"-18	1-1/2	1-3/8	1/2	5/16
	5512 065-06	5/8"-18	1-1/2	1-3/4	1/2	5/16
	5512 065-10	3/4"-16	1-7/8	1-7/16	1/2	3/8
	5512 065-04	3/4"-16	1-1/4	1-3/4	1/2	3/8

Basic holders

Cx-A390.00 Cx-390.00
 Cx-A390.45 Cx-390.55
 Cx-A390.455 Cx-390.58
 Cx-A390.545 Cx-390.140
 Cx-390.140HD
 Cx-390.272
 Cx-390.369
 Cx-390.540
 Cx-390.555
 Cx-390.558

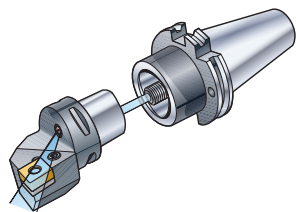


	1	2	3 ¹⁾	4 ¹⁾
	Centre screw	Retaining nut	Extension key (mm)	Retaining nut spanner
C3-A390.xx/C3-390.xx-	5512 063-10	5512 091-04	5680 015-05 (8.0)	5680 065-13
C4-A390.xx-/C4-390.xx-	5512 063-07	5512 091-03	5680 015-05 (8.0)	5680 065-10
C5-A390.xx-/C5-390.xx-	5512 063-08	5512 091-01	5680 015-01 (10.0)	5680 065-11
C6-A390.xx-/C6-390.xx-	5512 063-09	5512 091-02	5680 015-02 (14.0)	5680 065-12
C6-390.xx-40 075	5512 063-13	5512 091-02	5680 015-01 (10.0)	5680 065-12
C6-390.xx-40 085	5512 063-13	5512 091-02	5680 015-01 (10.0)	5680 065-12
C8-A390.xx/C8-390.xx-/C8X-390.xx	5512 063-09	5512 091-02	5680 015-02 (14.0)	5680 065-12
C10-390.xx/C10-A390.xx5	5512 063-14	5512 091-02	5680 015-06 (17)	5680 065-14
	1	2	3 ¹⁾	4 ¹⁾
	Centre screw	Retaining nut	Extension key (mm)	Retaining nut spanner
C3-390.540-50 060	5512 063-10	5512 091-04	5680 015-05 (8.0)	5680 065-13
C4-390.540-50 060	5512 063-07	5512 091-03	5680 015-05 (8.0)	5680 065-10
C5-390.540-50 070	5512 063-08	5512 091-01	5680 015-01 (10.0)	5680 065-11
C6-390.540-50 100	5512 063-09	5512 091-02	5680 015-05 (14.0)	5680 065-12
C8-390.540-50 120	5512 063-09	5512 091-02	5680 015-02 (14.0)	5680 065-12
C3-A390.545-50 070	5512 063-10	5512 091-04	5680 015-05 (8.0)	5680 065-13
C4-A390.545-50 070	5512 063-07	5512 091-03	5680 015-05 (8.0)	5680 065-10
C5-A390.545-50 080	5512 063-08	5512 091-01	5680 015-01 (10.0)	5680 065-11
C6-A390.545-50 090	5512 063-09	5512 091-02	5680 015-05 (14.0)	5680 065-12
C8-A390.545-50 150	5512 063-09	5512 091-02	5680 015-02 (14.0)	5680 065-12
C4-A390.546-40 040	5512 067-02	5512 091-03	5680 015-05 (8.0)	5680 065-10
C5-A390.546-40 050	5512 067-03	5512 091-01	5680 015-01 (10.0)	5680 065-10
C6-A390.546-50 050	5512 067-04	5512 091-02	5680 015-02 (14.0)	5680 065-12
C8-A390.546-50 070	5512 067-04	5512 091-02	5680 015-02 (14.0)	5680 065-12
C8-A390.547-50 070	5512 067-04	5512 091-02	5680 015-02 (14.0)	5680 065-12
C3-390.558-50 070	5512 063-10	5512 091-04	5680 015-05 (8.0)	5680 065-13
C4-390.558-50 070	5512 063-07	5512 091-03	5680 015-05 (8.0)	5680 065-10
C5-390.558-50 080	5512 063-08	5512 091-01	5680 015-05 (10.0)	5680 065-11
C6-390.558-50 100	5512 063-09	5512 091-02	5680 015-02 (14.0)	5680 065-12
C8-390.558-50 120	5512 063-09	5512 091-02	5680 015-05 (14.0)	5680 065-12
C5-390.562-40 050	5512 067-03	5512 091-01	5680 015-01 (10.0)	5680 065-11
C6-390.562-50 050	5512 067-04	5512 091-02	5680 015-02 (14.0)	5680 065-12
C8-390.562-50 070	5512 067-04	5512 091-02	5680 015-02 (14.0)	5680 065-12
C5-390.605-40 030	5512 067-03	5512 091-01	5680 015-01 (10.0)	5680 065-11
C6-390.605-50 040	5512 067-04	5512 091-02	5680 015-02 (14.0)	5680 065-12
C8-390.605-50 070	5512 067-04	5512 091-02	5680 015-02 (14.0)	5680 065-12

¹⁾ Accessories, must be ordered separately

Screw with radial hole for internal coolant for turning tools

When using a turning tool prepared for internal coolant directly into a basic holder, the centre screw has to be replaced with one with a radial hole, to be able to transfer coolant through the cutting tool.



Coupling size

Existing screw in basic holders

Exchangeable screw with radial hole

C3	5512 063-10	5512 067-01
C4	5512 063-07	5512 067-02
C5	5512 063-08	5512 067-03
C6	5512 063-09	5512 067-04
C6/40 taper	5512 063-13	5512 067-05

Basic holders Front clamp

Cx-A390.0004

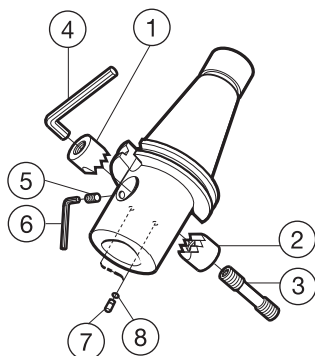
Cx-A390.4504

Cx-390.0004

Cx-390.5504

Cx-390.5804

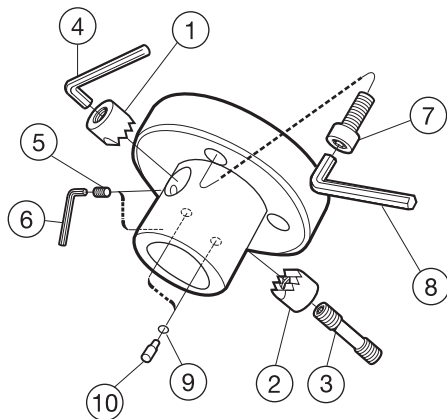
Cx-390.14004



	1	2	3	4 ¹⁾	5	6	7	8
	Gripping jaws							
	left	right	Screw	Key (mm)	Screw	Key (mm)	Pin	O-ring
C5-A390.xx/C5-390.xx-	5412 094-02	5412 094-01	5516 010-03	3021 013-050 (5.0)	5514 060-01	174.1-870 (2.0)	5552 065-01	5641 001-28
C6-A390.xx/C6-390.xx-	5412 094-04	5412 094-03	5516 010-04	3021 013-050 (5.0)	5514 060-01	174.1-870 (2.0)	5552 065-01	5641 001-28
C8-A390.xx/C8-390.xx-	5412 094-06	5412 094-05	5516 013-01	3021 013-070 (7.0)	5514 060-02	174.1-864 (3.0)	5552 065-02	5641 001-11

1) Accessories, must be ordered separately

Cx-390.34704



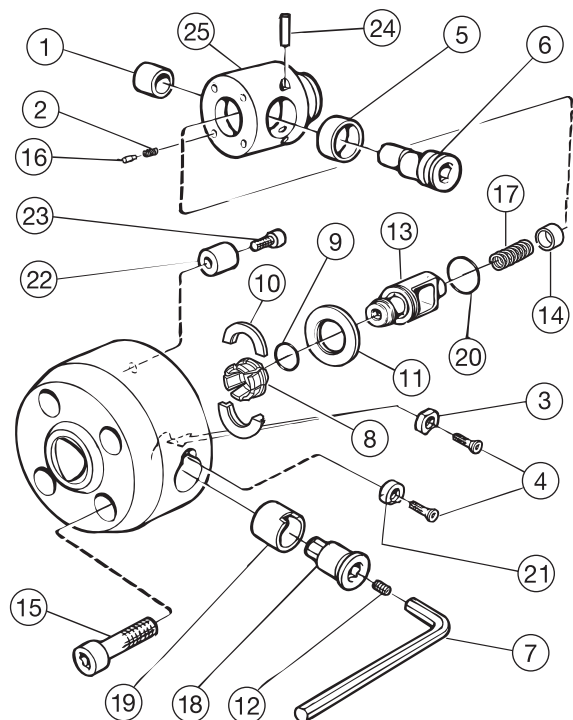
	1	2	3	4 ¹⁾	5	6 ¹⁾
	Gripping jaws					
	left	right	Screw	Key (mm)	Screw	Key (mm)
C5-390.34704-xx xxx	5412 094-02	5412 094-01	5516 010-03	3021 013-050 (5.0)	5514 060-01	174.1-870 (2.0)
C6-390.34704-xx xxx	5412 094-04	5412 094-03	5516 010-04	3021 013-050 (5.0)	5514 060-01	174.1-870 (2.0)
C8-390.34704-xx xxx	5412 094-06	5412 094-05	5516 013-01	3021 013-070 (7.0)	5514 060-02	174.1-864 (3.0)

	7	8 ¹⁾	9	10
	Screw			
	Key (mm)			
	O-ring			
	Pin			
C5-390.34704-xx xxx	10-1353-21178	3021 010-080 (8.0)	5641 001-28	5552 065-01
C6-390.34704-xx xxx	3212 020-562	3021 010-120 (12.0)	5641 001-28	5552 065-01
C8-390.34704-xx xxx	3212 020-562	3021 010-120 (12.0)	5641 001-11	5552 065-02

1) Accessories, must be ordered separately

Basic holders Camshaft clamping

Cx-390.34705

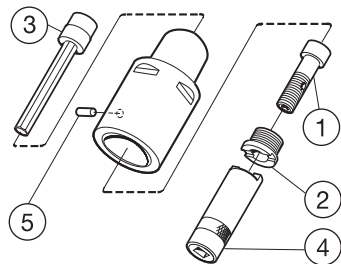


	1	2	3	4	5	6	7 ¹⁾
	Plain bearing	Compression spring (4 x)	Locking washer	Screw	Plain bearing	Cam shaft	Key (mm)
C3-390.34705-40 060	3823 010-101	5561 001-37	5541 030-06	416.1-834	5638 022-01	5333 025-01	3021 013-080 (8.0)
C4-390.34705-40 070	3823 010-123	5561 001-36	–	416.1-834	5638 022-01	5333 025-02	3021 013-100 (10.0)
	8	9	10	11	12	13	14
	Segment (6 x)	O-ring	Holder ring (2 x)	Outer ring	Screw	Drawbar	Plain bearing
C3-390.34705-40 060	5549 120-08	5641 005-01	5546 001-08	5541 025-01	3214 010-355	5461 100-08	5638 023-02
C4-390.34705-40 070	5549 120-06	5641 005-05	5546 001-06	5541 025-06	3214 010-355	5461 100-06	5638 023-02
	15	16	17	18	19	20	
	Screw	Pin (4 x)	Compression spring	Key extension	Plain bearing	O-ring	
C3-390.34705-40 060	3212 010-518	5552 005-01	5546 001-41	5680 038-02	3823 011-182	3671 010-126	
C4-390.34705-40 070	3212 010-520	–	5561 001-42	5680 038-01	3823 011-205	3671 010-127	
	21	22	23	24	25		
	Locking washer	Driving key	Screw	Pin	Housing		
C3-390.34705-40 060	5541 030-01	5635 012-01	3212 010-309	–	5251 030-02		
C4-390.34705-40 070	5541 030-02	5635 012-01	3212 010-309	3111 020-511	5251 030-01		

¹⁾ Accessories, must be ordered separately

Extension/reduction adaptors

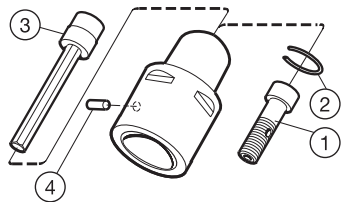
Cx-391.01A/ Cx-391.01HD
Cx-391.02/ Cx-391.02HD



	1	2	3 ¹⁾	4 ¹⁾	5
	Centre screw	Retaining ring	Extension key (mm)	Key	Pin
C3-391.01-32 xxxA	5512 067-01	5512 091-04	5680 015-05 (8.0)	5680 065-13	3113 020-304
C4-391.01-40 xxxA	5512 067-02	5512 091-03	5680 015-05 (8.0)	5680 065-10	3113 020-355
C5-391.01-50 xxxA	5512 067-03	5512 091-01	5680 015-01 (10.0)	5680 065-11	3113 020-406
C6-391.01-63 xxxA	5512 067-04	5512 091-02	5680 015-02 (14.0)	5680 065-12	3113 020-457
C8-391.01-80 xxxA	5512 067-04	5512 091-02	5680 015-02 (14.0)	5680 065-12	3113 020-509
C8x-391.01-100 xxx	5512 067-04	5512 091-02	5680 015-02 (14.0)	5680 065-12	3113 020-509
C4-391.02-32 055A	5512 067-01	5512 091-04	5680 015-05 (8.0)	5680 065-13	3113 020-304
C4-391.02-32 070A	5512 067-01	5512 091-04	5680 015-05 (8.0)	5680 065-13	3113 020-304
C5-391.02-32 060A	5512 067-01	5512 091-04	5680 015-05 (8.0)	5680 065-13	3113 020-304
C5-391.02-40 065A	5512 067-02	5512 091-03	5680 015-05 (8.0)	5680 065-10	3113 020-355
C5-391.02-40 085A	5512 067-02	5512 091-03	5680 015-05 (8.0)	5680 065-10	3113 020-355
C6-391.02-32 070A	5512 067-01	5512 091-04	5680 015-05 (8.0)	5680 065-13	3113 020-304
C6-391.02-40 080A	5512 067-02	5512 091-03	5680 015-05 (8.0)	5680 065-10	3113 020-355
C6-391.02-50 080A	5512 067-03	5512 091-01	5680 015-01 (10.0)	5680 065-11	3113 020-406
C6-391.02-50 110A	5512 067-03	5512 091-01	5680 015-01 (10.0)	5680 065-11	3113 020-406
C8-391.02-32 060A	5512 067-01	5512 091-04	5680 015-05 (8.0)	5680 065-13	3113 020-304
C8-391.02-40 070A	5512 067-02	5512 091-03	5680 015-05 (8.0)	5680 065-10	3113 020-355
C8-391.02-50 080A	5512 067-03	5512 091-01	5680 015-01 (10.0)	5680 065-11	3113 020-406
C8-391.02-63 080A	5512 067-04	5512 091-02	5680 015-02 (14.0)	5680 065-12	3113 020-457
C8-391.02-63 120A	5512 067-04	5512 091-02	5680 015-02 (14.0)	5680 065-12	3113 020-457
C8X-391.02-63 080	5512 067-04	5512 091-02	5680 015-02 (14.0)	5680 065-12	3113 020-457
C8X-391.02-80 100	5512 067-04	5512 091-02	5680 015-02 (14.0)	5680 065-12	3113 020-509
C8X-391.02-80 150	5512 067-04	5512 091-02	5680 015-02 (14.0)	5680 065-12	3113 020-509

¹⁾ Accessories, must be ordered separately

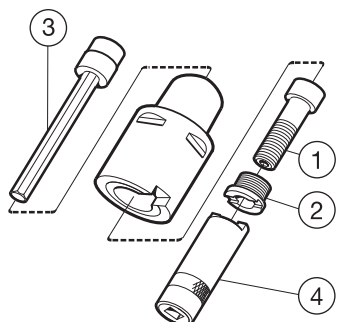
Short version
Cx-391.01/ Cx-391.02



	1	2	3 ¹⁾	4
	Centre screw	Retaining ring	Extension key (mm)	Pin
C3-391.01-32 035	5512 068-01	5545 040-02	5680 015-05 (8.0)	3113 020-304
C4-391.01-40 040	5512 068-02	5545 040-03	5680 015-05 (8.0)	3113 020-355
C5-391.01-50 050	5512 068-03	5545 040-07	5680 015-05 (8.0)	3113 020-406
C6-391.01-63 060	5512 068-04	5545 040-08	5680 015-02 (14.0)	3113 020-457
C8-391.01-80 065	5512 068-05	5545 040-08	5680 015-02 (14.0)	3113 020-509
C5-391.02-32 033	5512 068-01	5545 040-02	5680 015-05 (8.0)	–
C5-391.02-40 040	5512 068-06	5545 040-07	5680 015-05 (8.0)	–
C6-391.02-32 032	5512 068-01	5545 040-02	5680 015-05 (8.0)	–
C6-391.02-40 040	5512 068-02	5545 040-03	5680 015-05 (8.0)	–
C6-391.02-50 050	5512 068-07	5545 040-08	5680 015-01 (10.0)	–
C8-391.02-50 045	5512 068-08	5545 040-08	5680 015-01 (10.0)	–
C8-391.02-63 055	5512 068-05	5545 040-08	5680 015-02 (14.0)	–
C8X-391.02-63 055	5512 068-05	5545 040-08	5680 015-02 (14.0)	–
C8X-391.02-80 065	5512 068-05	5545 040-08	5680 015-02 (14.0)	–

¹⁾ Accessories, must be ordered separately

Coromant Capto adaptor for
Varilock
Cx-391.01-Vxx



	1	2	3 ¹⁾	4 ¹⁾
	Centre screw	Retaining nut	Extension key (mm)	Retaining nut spanner
C5-391.01-V50 060	5512 063-01	5512 091-01	5680 015-01 (10.0)	5680 065-01
C6-391.01-V63 080	5512 063-02	5512 091-02	5680 015-02 (14.0)	5680 065-02
C8-391.01-V80 065	5512 063-03	5512 091-02	5680 015-02 (14.0)	5680 065-02

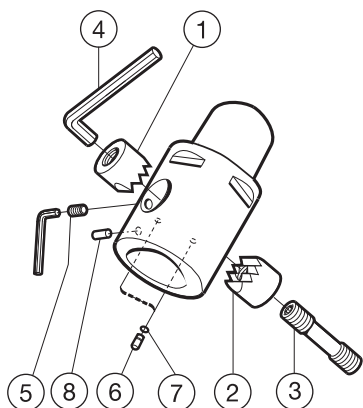
¹⁾ Accessories, must be ordered separately

Extension/reduction adaptors

Front clamp

Cx-391.0204

Cx-391.04

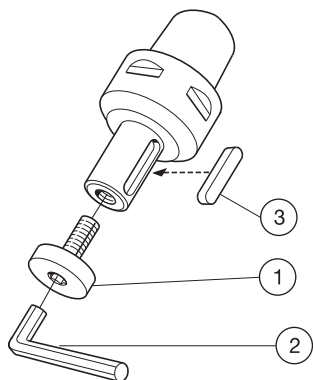


	1	2	3	4 ¹⁾	5	6	7	8
	Gripping jaw left	right	Screw	Key (mm)	Stop screw	Pin	O-ring	Pin
Cx-391.0204-50 xxx	5412 094-02	5412 094-01	5516 010-03	3021 013-050 (5.0)	5514 060-01	5552 065-01	5641 001-28	3113 020-406
Cx-391.0204-63 xxx	5412 094-04	5412 094-03	5516 010-04	3021 013-050 (5.0)	5514 060-01	5552 065-01	5641 001-28	3113 020-457
Cx-391.04-50 xxx	5412 094-02	5412 094-01	5516 010-03	3021 013-050 (5.0)	5514 060-01	5552 065-01	5641 001-28	3113 020-406
Cx-391.04-63 xxx	5412 094-04	5412 094-03	5516 010-04	3021 013-050 (5.0)	5514 060-01	5552 065-01	5641 001-28	3113 020-457
Cx-391.04-80 xxx	5412 094-06	5412 094-05	5516 013-01	3021 013-070 (7.0)	5514 060-02	5552 065-02	5641 001-11	3113 020-509

¹⁾ Accessories, must be ordered separately

Adaptors for side and face mills

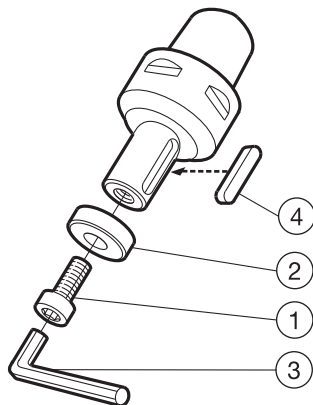
Cx-A391.10/Cx-A391.10HD



Inch pilot	1	2 ¹⁾	3
	Screw	Key	Parallel key
Cx-A391.10-25 xxx	5512 065-05	3021 011-516 (5/16)	SK 414
Cx-A391.10-31 xxx	5512 065-06	3021 011-516 (5/16)	SK 517
Cx-A391.10-38 xxx	5512 065-10	3021 011-380 (3/8)	SK 617
Cx-A391.10-50 xxx	5512 065-11	3021 011-916 (9/16)	SK 817
Cx-A391.10-63 xxx	3212 020-666	3021 010-170 (17.0 mm)	5631 065-01

¹⁾ Accessories, must be ordered separately

Cx-391.10/ Cx-391.10HD



Metric pilot	1	2	3 ¹⁾	4
	Screw	Washer	Key (mm)	Parallel key
Cx-391.10-16 xxx	3212 020-411	5541 015-01	3021 010-060 (6.0)	3191 010-461
Cx-391.10-22 xxx	3212 020-461	5541 015-02	3021 010-080 (8.0)	3191 010-564
Cx-391.10-27 xxx	3212 020-512	5541 015-03	3021 010-100 (10.0)	5632 010-01
Cx-391.10-32 xxx	3212 020-563	5541 015-04	3021 010-120 (12.0)	3191 010-621
Cx-391.10-40 xxx	3212 020-614	5541 015-05	3021 010-140 (14.0)	3191 010-671
Cx-391.10-50 xxx	3212 020-666	5541 015-06	3021 010-170 (17.0)	3191 010-721
Cx-391.10-60 xxx	3212 020-666	5541 015-08	3021 010-170 (17.0)	3191 010-771

¹⁾ Accessories, must be ordered separately

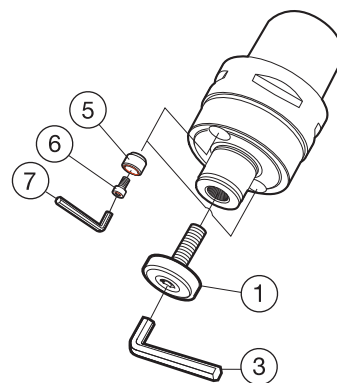
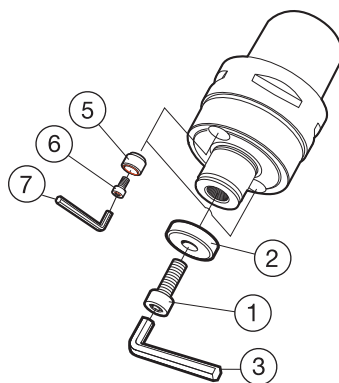
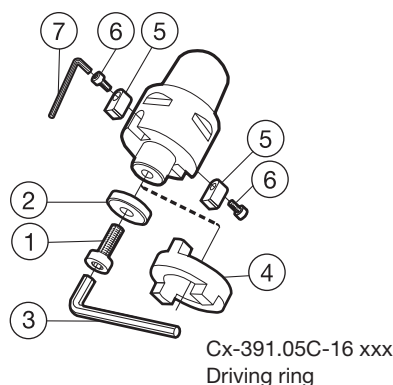
Adaptor for face mills and square shoulder face mills

With coolant through arbor

Cx-391.05C
Cx-A391.05C

Round driving keys:
Cx-391.05C

Cx-A391.05C



Metric pilot

	1	2	3 ¹⁾	4	5	6	7 ¹⁾
	Mounting screw	Washer	Key (mm)	Driving ring	Driving key	Screw	Key (mm)
C3-391.05C-16 030	3212 020-414	5541 015-01	3021 010-060 (6.0)	3193 010-160	-	-	-
C4-391.05C-16 032	3212 020-414	5541 015-01	3021 010-060 (6.0)	3193 010-160	-	-	-
C4-391.05C-22 025	3212 020-464	5541 015-02	3021 010-080 (8.0)	-	5631 011-01	3213 010-258	3021 010-030 (3.0)
C5-391.05C-16 035	3212 020-414	5541 015-01	3021 010-060 (6.0)	3193 010-160	-	-	-
C5-391.05C-22 025	3212 020-464	5541 015-02	3021 010-080 (8.0)	-	5635 025-01	3212 010-258	3021 010-030 (3.0)
C5-391.05C-27 025	3212 020-514	5541 015-03	3021 010-100 (10.0)	-	5635 025-02	3212 010-308	3021 010-040 (4.0)
C5-391.05C-32 040	3212 020-564	5541 015-04	3021 010-120 (12.0)	-	5631 010-04	3212 010-308	3021 010-040 (4.0)
C6-391.05C-16 040	3212 020-414	5541 015-01	3021 010-060 (6.0)	3193 010-160	-	-	-
C6-391.05C-22 025	3212 020-464	5541 015-02	3021 010-080 (8.0)	-	5635 025-01	3212 010-258	3021 010-030 (3.0)
C6-391.05C-27 025	3212 020-514	5541 015-03	3021 010-100 (10.0)	-	5635 025-02	3212 010-308	3021 010-040 (4.0)
C6-391.05C-32 025	3212 020-564	5541 015-04	3021 010-120 (12.0)	-	5635 025-03	3212 010-358	3021 010-050 (5.0)
C6-391.05C-40 040	3212 020-614	5541 015-05	3021 010-140 (14.0)	-	5631 010-02	3212 010-358	3021 010-050 (5.0)
C8-391.05C-16 050	3212 020-414	5541 015-01	3021 010-060 (6.0)	3193 010-160	-	-	-
C8-391.05C-22 030	3212 020-464	5541 015-02	3021 010-080 (8.0)	-	5635 025-01	3212 010-258	3021 010-030 (3.0)
C8-391.05C-27 030	3212 020-514	5541 015-03	3021 010-100 (10.0)	-	5635 025-02	3212 010-308	3021 010-040 (4.0)
C8-391.05C-32 030	3212 020-564	5541 015-04	3021 010-120 (12.0)	-	5635 025-03	3212 010-358	3021 010-050 (5.0)
C8-391.05C-40 030	3212 020-614	5541 015-05	3021 010-140 (14.0)	-	5635 025-04	3212 020-409	3021 010-060 (6.0)
C10-391.05C-22 075	3212 020-454	5541 015-02	3021 010-080 (8.0)	-	5631 012-01	3212 010-258	3021 010-030(3.0)
C10-391.05C-27 075	3212 020-514	5541 015-03	3021 010-100 (10.0)	-	5631 010-01	3212 010-258	3021 010-030(3.0)
C10-391.05C-32 075	3212 020-564	5541 015-04	3021 010-120 (12.0)	-	5631 010-01	3212 010-308	3021 010-040(4.0)
C10-391.05C-40 040	3212 020-614	5541 015-05	3021 010-140 (14.0)	-	5635 025-04	3212 020-409	3021 010-060 (6.0)

1) Accessories, must be ordered separately

Inch pilot

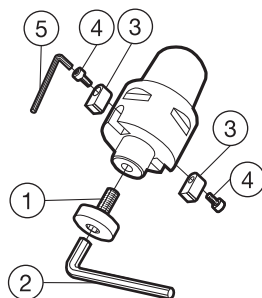
	1	3 ¹⁾	1	3 ¹⁾	5	6	7 ¹⁾
	Mounting screw	Key	Mounting screw	Key	Drive key	Screw	Key
C3-A391.05C-19 030	5512 065-07	3021 011-140	5512 065-02	3021 011-316	5631 013-01	8-32 x 3/8M	(9/64)
C4-A391.05C-19 025	5512 065-07	3021 011-140	5512 065-02	3021 011-316	5635 025-07	3212 010-207	3021 010-025 (2.5)
C4-A391.05C-25 035	5512 065-05	3021 011-516 ²⁾	5512 065-03	3021 011-516	5631 013-02	10-32 x 3/8	3021 011-532
C5-A391.05C-19 025	5512 065-07	3021 011-140	5512 065-02	3021 011-316	5635 025-07	3212 010-207	3021 010-025 (2.5)
C5-A391.05C-25 025	5512 065-05	3021 011-516 ²⁾	5512 065-03	3021 011-516	5635 025-06	3212 010-257	3021 010-030 (3.0)
C5-A391.05C-31 040	5512 065-06	3021 011-516 ²⁾	-	-	5631 010-06	10-32 x 3/8	3021 011-532
C5-A391.05C-38 045	5512 065-10	3021 011-380	5512 065-04	3021 011-380	5631 013-04	1/4-20 x 3/4	3021 011-316
C6-A391.05C-19 030	5512 065-07	3021 011-140	5512 065-02	3021 011-316	5635 025-07	3212 010-207	3021 010-025 (2.5)
C6-A391.05C-25 030	5512 065-05	3021 011-516 ²⁾	5512 065-03	3021 011-516	5635 025-06	3212 010-257	3021 010-030 (3.0)
C6-A391.05C-31 030	5512 065-06	3021 011-516 ²⁾	-	-	5635 025-08	3212 010-308	3021 010-040 (4.0)
C6-A391.05C-38 045	5512 065-10	3021 011-380	5512 065-04	3021 011-380	5631 013-04	1/4-20 x 3/4	3021 011-316
C8-A391.05C-19 030	5512 065-07	3021 011-140	5512 065-02	3021 011-316	5635 025-07	3212 010-207	3021 010-025 (2.5)
C8-A391.05C-25 030	5512 065-05	3021 011-516 ²⁾	5512 065-03	3021 011-516	5635 025-06	3212 010-257	3021 010-030 (3.0)
C8-A391.05C-31 030	5512 065-06	3021 011-516 ²⁾	-	-	5635 025-08	3212 010-308	3021 010-040 (4.0)
C8-A391.05C-38 030	5512 065-10	3021 011-380	5512 065-04	3021 011-380	5635 025-05	3212 010-409	3021 010-060 (6.0)
C10-A391.05C-19 075	5512 065-07	3021 011-140	5512 065-02	3021 011-316	5631 013-03	8-32x3/8M (9/64)	
C10-A391.05C-25 075	5512 065-05	3021 011-516	5512 065-03	3021 011-516	5631 013-02	10-32x3/8	3021 011-532
C10-A391.05C-38 040	5512 065-10	3021 011-380	5512 065-04	3021 011-380	5635 025-05	3212 010-409	3021 010-060 (6.0)

1) Accessories, must be ordered separately

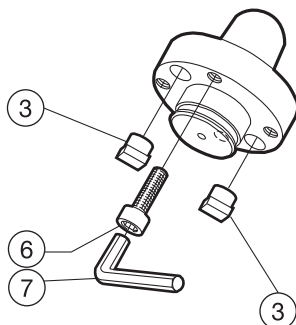
2) ANSI - Code = DIN 911-5/16 ZDLL

Adaptors for face mills, inch pilot

Cx-A391.05
Cx-A391.05HD



C8-A391.05- 50 xxx
C8-A391.05- 63 xxx



	1	2 ¹⁾	3	4	5 ¹⁾	6	7 ¹⁾
	Mounting screw	Key	Drive key	Screw	Key	Screw	Key
C3-A391.05- 19 xxx	5512 065-07	3021 011-140	5631 013-01	8-32 x 3/8M	(9/64)	-	-
C4-A391.05- 19 xxx	5512 065-07	3021 011-140	5631 013-01	8-32 x 3/8M	(9/64)	-	-
C4-A391.05- 25 xxx	5512 065-05	3021 011-516 ²⁾	5631 013-02	10-32 x 3/8	(5/32)	-	-
C5-A391.05- 19 xxx	5512 065-07	3021 011-140	5631 013-01	8-32 x 3/8M	(9/64)	-	-
C5-A391.05- 25 xxx	5512 065-05	3021 011-516 ²⁾	5631 013-02	10-32 x 3/8	(5/32)	-	-
C5-A391.05- 31 xxx	5512 065-06	3021 011-516 ²⁾	5631 010-06	10-32 x 3/8	(5/32)	-	-
C5-A391.05- 38 xxx	5512 065-10	3021 011-380	5631 013-04	1/4-20 x 3/4	(3/16)	-	-
C6-A391.05- 19 xxx	5512 065-07	3021 011-140	5631 013-01	8-32 x 3/8M	(9/64)	-	-
C6-A391.05- 25 xxx	5512 065-05	3021 011-516 ²⁾	5631 013-02	10-32 x 3/8	(5/32)	-	-
C6-A391.05- 31 xxx	5512 065-06	3021 011-516 ²⁾	5631 010-06	10-32 x 3/8	(5/32)	-	-
C6-A391.05- 38 xxx	5512 065-10	3021 011-380	5631 013-04	1/4-20 x 3/4	(3/16)	-	-
C8-A391.05- 19 xxx	5512 065-07	3021 011-140	5631 013-01	8-32 x 3/8M	(9/64)	-	-
C8-A391.05- 25 xxx	5512 065-05	3021 011-516 ²⁾	5631 013-02	10-32 x 3/8	(5/32)	-	-
C8-A391.05- 31 xxx	5512 065-06	3021 011-516 ²⁾	5631 010-06	10-32 x 3/8	(5/32)	-	-
C8-A391.05- 38 xxx	5512 065-10	3021 011-380	5631 013-04	1/4-20 x 3/4	(3/16)	-	-
C8-A391.05- 50 xxx	-	-	5631 060-01	-	-	3212 031-761	(1/2")
C8-A391.05- 63 xxx	-	-	5631 060-01	-	-	3212 031-761	(1/2")
C8X-A391.05- 63 070	-	-	5631 060-01	-	-	3212 031-761	(1/2")
C8-A391.05HD- 63 xxx	-	-	5631 060-01	-	-	3212 031-761	(1/2")

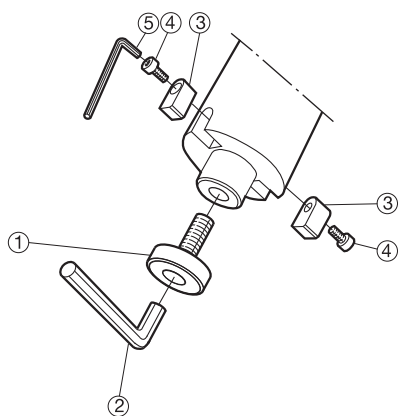
1) Accessories, must be ordered separately

2) ANSI - Code = DIN 911-5/16 ZDLL

Dampened adaptor for face mills and square shoulder face mills, inch pilot

With coolant through arbor

Cx-A391.06



	1 ¹⁾	2 ¹⁾	3	4	5 ¹⁾
	Screw	Key	Drive key	Screw	Key
Cx-A391.06- 19 xxx	5512 065-02	3021 011-316	5631 013-01	8-32 x 3/8M	(9/64)
Cx-A391.06- 25 xxx	5512 065-08	3021 011-352	5631 013-02	10-32 x 3/8	(5/32)
Cx-A391.06- 38 xxx	5512 065-04	3021 011-380	5631 013-04	1/4-20 x 3/4	(3/16)

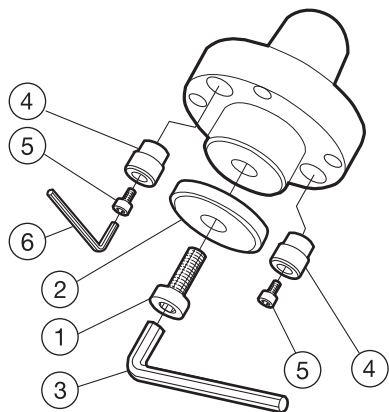
Arbor mounting screws with coolant hole

Arbor size	Screw	Key
Inch		
.750	5512 074-01	(3/8"-24 UNF)
.750 ¹⁾	5512 074-03	(3/8"-24 UNF) ¹⁾
1.000	5512 074-02	(1/2"-20 UNF)
1.250	5512 074-04	(5/8"-18 UNF)
1.500	5512 074-05	(3/4"-16 UNF)

1) Optimized: Low head/small head-diameter

Adaptor for face mills and square shoulder face mill

Coolant for boring

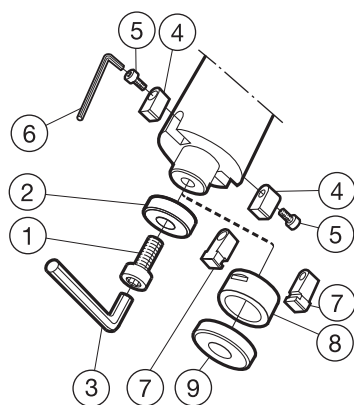


	1	2	3	4	5	6
	Screw	Washer	Key (mm)	Driving key	Screw	Key (mm)
C8/C8X-391.05-40 xxxB	3212 020-614	5541 015-05	3021 010-140 (14.0)	5635 025-04	3212 020-409	3021 010-060 (6.0)

Dampened adaptor for face mills and square shoulder face mills, metric pilot

With coolant through arbor

Cx-391.06



	1	2	3 ¹⁾	4	5	6 ¹⁾
	Screw	Washer	Key (mm)	Driving key	Screw	Key (mm)
Cx-391.06-22 xxx	3212 020-464	5541 015-02	3021 010-080 (8.0)	5631 011-01	3213 010-258	174.1-864 (3.0)
Cx-391.06-27 xxx	3212 020-514	5541 015-03	3021 010-100 (10.0)	5631 010-01	3212 010-258	174.1-864 (3.0)
Cx-391.06-32 xxx	3212 020-564	5541 015-04	3021 010-120 (12.0)	5631 010-04	3212 010-308	3021 010-040 (4.0)
Sleeve set for Cx-391.06	7	8	9			
	Driving key	Sleeve	Washer			
5638 035-011	5631 016-01	5638 035-01	5541 015-09			

¹⁾ Accessories, must be ordered separately

Arbor mounting screws with coolant hole

Arbor size	Screw	Key ²⁾
Metric		
16	5512 073-03 (M8)	3021 010-060 (6.0)
22	5512 073-01 (M10)	3021 010-080 (8.0)
22 ¹⁾	5512 073-04 ¹⁾ (M10)	3021 010-080 (8.0)
27	5512 073-02 (M12)	3021 010-100 (10.0)
32	5512 073-05 (M16)	3021 010-140 (12.0)

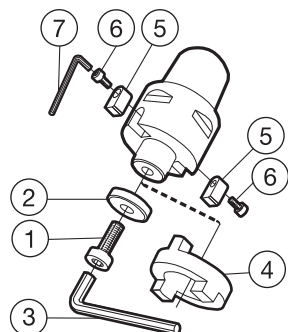
¹⁾ Optimized: Low head/small head-diameter

²⁾ Accessories, must be ordered separately

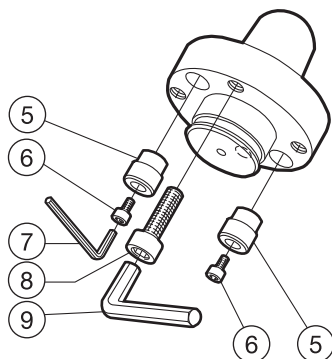
For CoroMill® 365, CoroMill® Century and CoroMill® 210 a unique screw, with coolant hole, is used. This has to be ordered separately. See ordering pages for these cutters.

Adaptors for face mills and square shoulder face mills

Cx-391.05/ Cx-391.05HD



C8-391.05-60 060



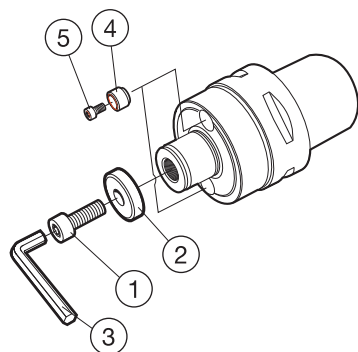
	1	2	3 ¹⁾	4	5	6
	Screw	Washer	Key (mm)	Driving ring	Driving key	Screw
C3-391.05-16 030	3212 020-414	5541 015-01	3021 010-060 (6.0)	3193 010-160	-	-
C4-391.05-16 032	3212 020-414	5541 015-01	3021 010-060 (6.0)	3193 010-160	-	-
C4-391.05-16 055	3212 020-414	5541 015-01	3021 010-060 (6.0)	3193 010-160	-	-
C4-391.05-22 025	3212 020-464	5541 015-02	3021 010-080 (8.0)	-	5631 011-01	3213 010-258
C4-391.05-22 055	3212 020-464	5541 015-02	3021 010-080 (8.0)	-	5631 011-01	3213 010-258
C5-391.05-16 035	3212 020-414	5541 015-01	3021 010-060 (6.0)	3193 010-160	-	-
C5-391.05-16 070	3212 020-414	5541 015-01	3021 010-060 (6.0)	3193 010-160	-	-
C5-391.05-22 025	3212 020-464	5541 015-02	3021 010-080 (8.0)	-	5631 012-01	3212 010-258
C5-391.05-22 070	3212 020-464	5541 015-02	3021 010-080 (8.0)	-	5631 011-01	3213 010-258
C5-391.05-27 025	3212 020-514	5541 015-03	3021 010-100 (10.0)	-	5631 010-01	3212 010-258
C5-391.05-32 040	3212 020-564	5541 015-04	3021 010-120 (12.0)	-	5631 010-04	3212 010-308
C6-391.05-16 040	3212 020-414	5541 015-01	3021 010-060 (6.0)	3193 010-160	-	-
C6-391.05-22 025	3212 020-464	5541 015-02	3021 010-080 (8.0)	-	5631 012-01	3212 010-258
C6-391.05-27 025	3212 020-514	5541 015-03	3021 010-100 (10.0)	-	5631 010-01	3212 010-258
C6-391.05-32 025	3212 020-564	5541 015-04	3021 010-120 (12.0)	-	5631 010-04	3212 010-308
C6-391.05-40 030B	3212 020-614	5541 015-05	3021 010-140 (14.0)	-	5635 025-04	3212 020-409
C8-391.05-16 050	3212 020-414	5541 015-01	3021 010-060 (6.0)	3193 010-160	-	-
C8-391.05-22 030	3212 020-464	5541 015-02	3021 010-080 (8.0)	-	5631 012-01	3212 010-258
C8-391.05-27 030	3212 020-514	5541 015-03	3021 010-100 (10.0)	-	5631 010-01	3212 010-258
C8/C8X-391.05-32 030	3212 020-564	5541 015-04	3021 010-120 (12.0)	-	5631 010-04	3212 010-308
C8-391.05-40 xxxB ²⁾	3212 020-614	5541 015-05	3021 010-140 (14.0)	-	5635 025-04	3212 020-409
C8/C8X-391.05-60 xxx	-	-	-	-	5635 010-01	3212 010-363
	7 ¹⁾	8	9 ¹⁾			
	Key (mm)	Screw	Key (mm)			
C3-391.05-16 030	-	-	-			
C4-391.05-16 032	-	-	-			
C4-391.05-16 055	-	-	-			
C4-391.05-22 025	-	-	-			
C4-391.05-22 055	-	-	-			
C5-391.05-16 035	-	-	-			
C5-391.05-16 070	-	-	-			
C5-391.05-22 025	174.1-864 (3.0)	-	-			
C5-391.05-22 070	-	-	-			
C5-391.05-27 025	174.1-864 (3.0)	-	-			
C5-391.05-32 040	3021 010-040 (4.0)	-	-			
C6-391.05-16 040	-	-	-			
C6-391.05-22 025	174.1-864 (3.0)	-	-			
C6-391.05-27 025	174.1-864 (3.0)	-	-			
C6-391.05-32 025	3021 010-040 (4.0)	-	-			
C6-391.05-40 030B	3021 010-060 (6.0)	-	-			
C8-391.05-16 050	-	-	-			
C8-391.05-22 030	174.1-864 (3.0)	-	-			
C8-391.05-27 030	174.1-864 (3.0)	-	-			
C8-391.05-32 030	3021 010-040 (4.0)	-	-			
C8/C8X-391.05-40 xxxA ²⁾	3021 010-050 (5.0)	-	-			
C8/C8X-391.05-60 xxx	3021 010-050 (5.0)	3212 010-568	3021 010-140 (14.0)			

¹⁾ Accessories, must be ordered separately

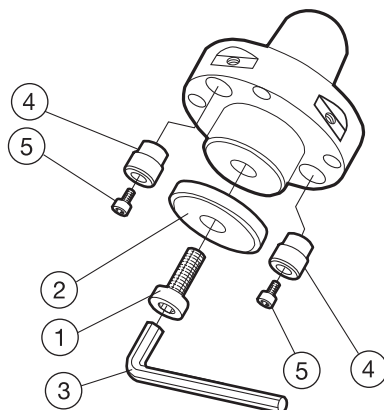
²⁾ For HD adaptors use locking screw 3214 010-406 for mounting cutters with single bolt circle (style C).

Adaptors for face mills and square shoulder face mills

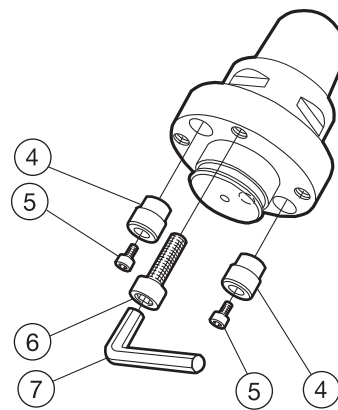
Cx-A391.05/ Cx-391.05



C10-A391.05-38 040/ C10-391.05-40 040



C10-A391.05-63 075/ C10-391.05-60 075



Metric pilot

	1	2	3 ¹⁾	4 ¹⁾	5	6 ¹⁾	7 ¹⁾
Ordering code	Screw	Washer	Key (mm)	Driving key	Screw	Screw	Key (mm)
C5-391.05-22 025A	3212 020-464	5541 015-02	3021 010-080 (8.0)	5635 025-01	3212 010-258	-	-
C5-391.05-27 025A	3212 020-514	5541 015-03	3021 010-100 (10.0)	5635 025-02	3212 010-308	-	-
C6-391.05-22 025A	3212 020-464	5541 015-02	3021 010-080 (8.0)	5635 025-01	3212 010-258	-	-
C6-391.05-27 025A	3212 020-514	5541 015-03	3021 010-100 (10.0)	5635 025-02	3212 010-308	-	-
C6-391.05-32 025A	3212 020-564	5541 015-04	3021 010-120 (12.0)	5635 025-03	3212 010-358	-	-
C8-391.05-22 030A	3212 020-464	5541 015-02	3021 010-080 (8.0)	5635 025-01	3212 010-258	-	-
C8-391.05-27 030A	3212 020-514	5541 015-03	3021 010-100 (10.0)	5635 025-02	3212 010-308	-	-
C8-391.05-32 030A	3212 020-564	5541 015-04	3021 010-120 (12.0)	5635 025-03	3212 010-358	-	-
C10-391.05-40 040	3212 020-614	5541 015-05	3021 010-140 (14.0)	5635 025-04	3212 020-409	-	-
C10-391.05-60 075	-	-	-	5635 010-01	3212 010-363	3212 010-568	3021 010-140 (14.0)

¹⁾ Accessories, must be ordered separately

Inch pilot

	1	3 ¹⁾	4	5	6	7 ¹⁾
Ordering code	Screw	Key	Drive key	Screw	Screw	Key
C4-A391.05- 19 025A	5512 065-07	3021 011-140	5635 025-07	3212 010-207	-	-
C5-A391.05- 19 025A	5512 065-07	3021 011-140	5635 025-07	3212 010-207	-	-
C5-A391.05- 25 025A	5512 065-05	3021 011-516 ²⁾	5635 025-06	3212 010-257	-	-
C6-A391.05- 19 030A	5512 065-07	3021 011-140	5635 025-07	3212 010-207	-	-
C6-A391.05- 25 030A	5512 065-05	3021 011-516 ²⁾	5635 025-06	3212 010-257	-	-
C6-A391.05- 31 030A	5512 065-06	3021 011-516 ²⁾	5635 025-08	3212 010-308	-	-
C8-A391.05- 19 030A	5512 065-07	3021 011-140	5635 025-07	3212 010-207	-	-
C8-A391.05- 25 030A	5512 065-05	3021 011-516 ²⁾	5635 025-06	3212 010-257	-	-
C8-A391.05- 31 030A	5512 065-06	3021 011-516 ²⁾	5635 025-08	3212 010-308	-	-
C8-A391.05- 38 030A	5512 065-10	3021 011-380	5635 025-05	3212 020-409	-	-
C10-A391.05- 38 040	5512 065-04	3021 011-380	5635 025-05	3212 020-409	-	-
C10-A391.05- 63 075	-	-	5631 060-01	3212 010-363	3212 031-761	(1/2")

¹⁾ Accessories, must be ordered separately

²⁾ ANSI - Code = DIN 911-5/16 ZDLL

Arbor mounting screws with coolant hole

Arbor size Inch	Screw	Key	Arbor size Metric	Screw	Key ²⁾
.750	5512 074-01	(3/8"-24 UNF)	16	5512 073-03	(M8)
.750 ¹⁾	5512 074-03	(3/8"-24 UNF)	22	5512 073-01	(M10)
.1000	5512 074-02	(1/2"-20 UNF)	22 ¹⁾	5512 073-04 ¹⁾	(M10)
1.250	5512 074-04	(5/8"-18 UNF)	27	5512 073-02	(M12)
1.500	5512 074-05	(3/4"-16 UNF)	32	5512 073-05	(M16)
					3021 010-060
					3021 010-080
					3021 010-080
					3021 010-100
					3021 010-120

¹⁾ Optimized: Low head/small head-diameter

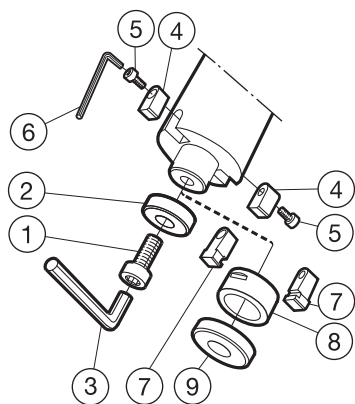
²⁾ Accessories, must be ordered separately

Dampened adaptor for face mills and square shoulder face mills

With coolant through arbor

Metric pilot

Cx.391.05CD

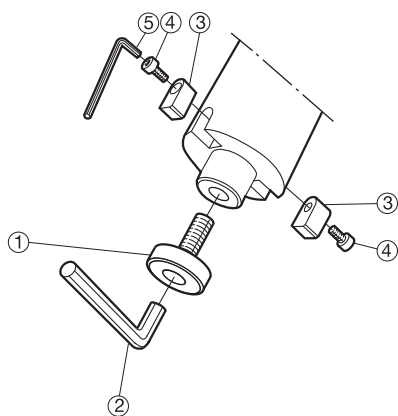


	1	2	3 ¹⁾	4	5	6 ¹⁾
	Screw	Washer	Key (mm)	Driving key	Screw	Key (mm)
Cx-391.05CD-22 xxx	3212 020-464	5541 015-02	3021 010-080 (8.0)	5631 012-01	3212 010-258	3021 010-030 (3.0)
Cx-391.05CD-27 xxx	3212 020-514	5541 015-03	3021 010-100 (10.0)	5631 010-01	3212 010-258	3021 010-030 (3.0)
Cx-391.05CD-32 xxx	3212 020-564	5541 015-04	3021 010-120 (12.0)	5631 010-04	3212 010-308	3021 010-040 (4.0)
Sleeve set for Cx-391.05CD	7	8	9			
	Driving key	Sleeve	Washer			
5638 035-011	5631 016-01	5638 035-01	5541 015-09			

¹⁾ Accessories, must be ordered separately

Inch pilot

Cx-A391.05CD

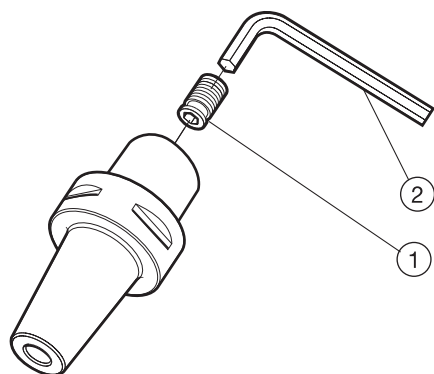


	1 ¹⁾	2 ¹⁾	3	4	5 ¹⁾
	Screw	Key	Drive key	Screw	Key
Cx-A391.05CD-19 xxx	5512 065-02	3021 011-316	5631 013-01	8-32 x 3/8M	(9/64)
Cx-A391.05CD-25 xxx	5512 065-08	3021 011 532	5631 013-02	10-32 x 3/8	3021 011 532
Cx-A391.05CD-38 xxx	5512 065-04	3021 011-380	5631 013-04	1/4-20 x 3/4	3021 011 316

Coromant Capto® shrink fit adaptor

Cx-391.19

Cx-391.19



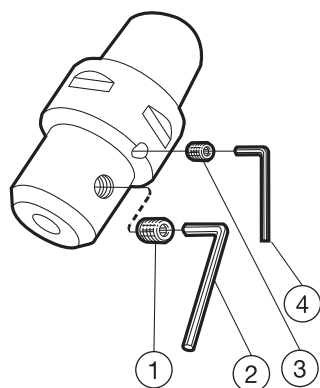
	1	2 ¹⁾
	Adjustment screw	Key (mm)
Cx-391.19-06 xxx	5512 066-09	3021 010-025 (2.5)
Cx-391.19-08 xxx	5512 066-10	3021 010-030 (3.0)
Cx-391.19-10 xxx	5512 066-11	3021 010-040 (4.0)
Cx-391.19-12 xxx	5512 066-12	3021 010-050 (5.0)
Cx-391.19-14 xxx	5512 066-12	3021 010-050 (5.0)
Cx-391.19-16 xxx	5512 066-13	3021 010-060 (6.0)
Cx-391.19-18 xxx	5512 066-13	3021 010-060 (6.0)
Cx-391.19-20 xxx	5512 066-14	3021 010-080 (8.0)
Cx-391.19-25 xxx	5512 066-14	3021 010-080 (8.0)
Cx-391.19-32 xxx	5512 066-14	3021 010-080 (8.0)
Cx-A391.19-06 xxx	5512 066-09	3021 010-025 (2.5)
Cx-A391.19-09 xxx	5512 066-11	3021 010-040 (4.0)
Cx-A391.19-12 xxx	5512 066-12	3021 010-050 (5.0)
Cx-A391.19-15 xxx	5512 066-13	3021 010-060 (6.0)
Cx-A391.19-19 xxx	5512 066-14	3021 010-080 (8.0)
Cx-A391.19-25 xxx	5512 066-14	3021 010-080 (8.0)

1) Accessories, must be ordered separately

Adaptors for Weldon shanks

Cx-A391.20

Cx-391.20



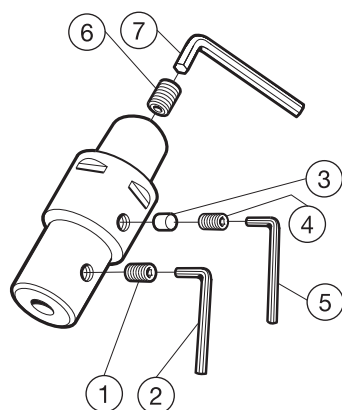
Inch version	1	2 ¹⁾	3	4 ¹⁾
	Screw	Key	Screw	Key
Cx-A391.20-09 xxx	5514 021-01	3021 011-316 (3/16)	-	-
Cx-A391.20-12 xxx	5514 021-02	3021 011-732 (7/32)	-	-
Cx-A391.20-15 xxx	5514 021-03	3021 011-140 (1/4)	-	-
Cx-A391.20-19 xxx	5514 021-04	3021 011- 516 (5/16)	-	-
Cx-A391.20-22 xxx	5514 021-04	3021 011-516 (5/16)	5514 021-04	3021 011-516 (5/16)
Cx-A391.20-25 xxx	5514 021-05	3021 011-380 (3/8)	5514 021-05	3021 011-380 (3/8)
Cx-A391.20-31 xxx	5514 021-05	3021 011-380 (3/8)	5514 021-05	3021 011-380 (3/8)
Cx-A391.20-38 xxx	5514 021-05	3021 011-380 (3/8)	5514 021-05	3021 011-380 (3/8)
Cx-A391.20-50 xxx	5514 021-07	3021 011-916 (9/16)	5514 021-07	3021 011-916 (9/16)

Metric version	1	2 ¹⁾	3	4 ¹⁾
	Screw	Key (mm)	Screw	Key (mm)
Cx-391.20-06 xxx	3214 050-357	174.1-864 (3.0)	-	-
Cx-391.20-08 xxx	3214 050-407	3021 010-040 (4.0)	-	-
Cx-391.20-10 xxx	3214 050-458	3021 010-050 (5.0)	-	-
Cx-391.20-12 xxx	3214 050-509	3021 010-060 (6.0)	-	-
Cx-391.20-14 xxx	3214 050-509	3021 010-060 (6.0)	-	-
Cx-391.20-16 xxx	3214 050-539	3021 010-060 (6.0)	-	-
Cx-391.20-18 xxx	3214 050-539	3021 010-060 (6.0)	-	-
Cx-391.20-20 xxx	3214 050-559	3021 010-080 (8.0)	-	-
Cx-391.20-25 xxx	3214 050-590	3021 010-100 (10.0)	3214 050-590	3021 010-100 (10.0)
Cx-391.20-32 xxx	3214 050-610	3021 010-100 (10.0)	3214 050-610	3021 010-100 (10.0)
Cx-391.20-40 xxx	3214 050-611	3021 010-100 (10.0)	3214 050-611	3021 010-100 (10.0)
Cx-391.20-50 xxx	3214 050-661	3021 010-120 (12.0)	3214 050-611	3021 010-100 (10.0)

1) Accessories, must be ordered separately

Adaptors for Whistle Notch shanks

Cx-391.21

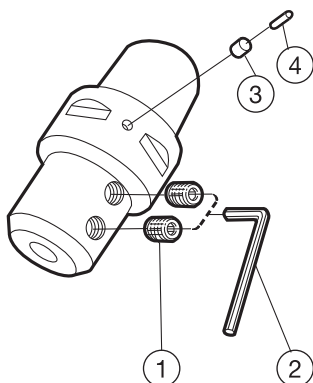


	1	2 ¹⁾	3	4	5 ¹⁾	6	7 ¹⁾
	Screw	Key (mm)	Plug	Screw	Key (mm)	Screw	Key (mm)
C3-391.21-06 070A	3214 050-357	174.1-864 (3.0)	470-841	3214 010-355	174.1-864 (3.0)	5512 066-09	174.1-864 (3.0)
C3-391.21-08 070A	3214 050-407	3021 010-040 (4.0)	470-841	3214 010-355	174.1-864 (3.0)	5512 066-08	3021 010-040 (4.0)
C3-391.21-10 070	3214 050-458	3021 010-050 (5.0)	470-841	3214 010-355	174.1-864 (3.0)	5512 066-03	3021 010-040 (4.0)
C3-391.21-12 075	3214 050-509	3021 010-060 (6.0)	470-841	3214 010-357	174.1-864 (3.0)	5512 066-05	3021 010-050 (5.0)
C4-391.21-06 070A	3214 050-357	174.1-864 (3.0)	470-841	3214 010-355	174.1-864 (3.0)	5512 066-09	174.1-864 (3.0)
C4-391.21-08 070A	3214 050-407	3021 010-040 (4.0)	470-841	3214 010-355	174.1-864 (3.0)	5512 066-08	3021 010-040 (4.0)
C4-391.21-10 070	3214 050-458	3021 010-050 (5.0)	470-841	3214 010-355	174.1-864 (3.0)	5512 066-03	3021 010-040 (4.0)
C4-391.21-12 075	3214 050-509	3021 010-060 (6.0)	470-841	3214 010-357	174.1-864 (3.0)	5512 066-05	3021 010-050 (5.0)
C4-391.21-14 075	3214 050-509	3021 010-060 (6.0)	470-841	3214 010-357	174.1-864 (3.0)	5512 066-05	3021 010-050 (5.0)
C5-391.21-06 070A	3214 050-357	174.1-864 (3.0)	470-841	3214 010-355	174.1-864 (3.0)	5512 066-09	174.1-864 (3.0)
C5-391.21-08 070A	3214 050-407	3021 010-040 (4.0)	470-841	3214 010-355	174.1-864 (3.0)	5512 066-08	3021 010-040 (4.0)
C5-391.21-10 070	3214 050-458	3021 010-050 (5.0)	470-841	3214 010-355	174.1-864 (3.0)	5512 066-03	3021 010-040 (4.0)
C5-391.21-12 075	3214 050-509	3021 010-060 (6.0)	470-841	3214 010-357	174.1-864 (3.0)	5512 066-05	3021 010-050 (5.0)
C5-391.21-14 075	3214 050-509	3021 010-060 (6.0)	470-841	3214 010-357	174.1-864 (3.0)	5512 066-05	3021 010-050 (5.0)
C5-391.21-16 080	3214 050-539	3021 010-060 (6.0)	470-841	3214 010-357	174.1-864 (3.0)	5512 066-05	3021 010-060 (6.0)
C5-391.21-18 080	3214 050-539	3021 010-060 (6.0)	470-841	3214 010-357	174.1-864 (3.0)	5512 066-06	3021 010-060 (6.0)
C5-391.21-20 085	3214 050-559	3021 010-080 (8.0)	470-841	3214 010-357	174.1-864 (3.0)	5512 066-07	3021 010-060 (6.0)
C6-391.21-06 075A	3214 050-357	174.1-864 (3.0)	470-841	3214 010-355	174.1-864 (3.0)	5512 066-09	174.1-864 (3.0)
C6-391.21-08 075A	3214 050-407	3021 010-040 (4.0)	470-841	3214 010-355	174.1-864 (3.0)	5512 066-08	3021 010-040 (4.0)
C6-391.21-10 075	3214 050-458	3021 010-050 (5.0)	470-841	3214 010-355	174.1-864 (3.0)	5512 066-03	3021 010-040 (4.0)
C6-391.21-12 080	3214 050-509	3021 010-060 (6.0)	470-841	3214 010-357	174.1-864(3.0)	5512 066-05	3021 010-050 (5.0)
C6-391.21-14 080	3214 050-509	3021 010-060 (6.0)	470-841	3214 010-357	174.1-864 (3.0)	5512 066-05	3021 010-050 (5.0)
C6-391.21-16 080	3214 050-539	3021 010-060 (6.0)	470-841	3214 010-357	174.1-864 (3.0)	5512 066-06	3021 010-060 (6.0)
C6-391.21-18 080	3214 050-539	3021 010-060 (6.0)	470-841	3214 010-357	174.1-864 (3.0)	5512 066-06	3021 010-060 (6.0)
C6-391.21-20 085	3214 050-559	3021 010-080 (8.0)	470-841	3214 010-357	174.1-864 (3.0)	5512 066-07	3021 010-060 (6.0)
C6-391.21-25 090	3214 050-590	3021 010-100 (10.0)	470-841	3214 010-357	174.1-864(3.0)	5512 066-07	3021 010-060 (6.0)
C6-391.21-32 095	3214 050-610	3021 010-100 (10.0)	470-841	3214 010-357	174.1-864 (3.0)	5512 066-07	3021 010-060 (6.0)
C8-391.21-06 065A	3214 050-357	174.1-864 (3.0)	470-841	3214 010-355	174.1-864(3.0)	5512 066-09	174.1-864 (3.0)
C8-391.21-08 065A	3214 050-407	3021 010-040 (4.0)	470-841	3214 010-355	174.1-864(3.0)	5512 066-08	3021 010-040 (4.0)
C8-391.21-10 065	3214 050-458	3021 010-050 (5.0)	470-841	3214 010-355	174.1-864(3.0)	5512 066-03	3021 010-040 (4.0)
C8-391.21-12 070	3214 050-509	3021 010-060 (6.0)	470-841	3214 010-357	174.1-864(3.0)	5512 066-05	3021 010-050 (5.0)
C8-391.21-14 070	3214 050-509	3021 010-060 (6.0)	470-841	3214 010-357	174.1-864(3.0)	5512 066-05	3021 010-050 (5.0)
C8-391.21-16 075	3214 050-539	3021 010-060 (6.0)	470-841	3214 010-357	174.1-864(3.0)	5512 066-06	3021 010-060 (6.0)
C8-391.21-18 075	3214 050-539	3021 010-060 (6.0)	470-841	3214 010-357	174.1-864(3.0)	5512 066-06	3021 010-060 (6.0)
C8-391.21-20 080	3214 050-559	3021 010-080 (8.0)	470-841	3214 010-357	174.1-864(3.0)	5512 066-07	3021 010-060 (6.0)
C8-391.21-25 090	3214 050-590	3021 010-100 (10.0)	470-841	3214 010-357	174.1-864(3.0)	5512 066-07	3021 010-060 (6.0)
C8-391.21-32 095	3214 050-610	3021 010-100 (10.0)	470-841	3214 010-357	174.1-864(3.0)	5512 066-07	3021 010-060 (6.0)

¹⁾ Accessories, must be ordered separately

Adaptors for Weldon / ISO9766

Combi



Metric version	1	2 ¹⁾
	Screw	Key (mm)
C10-391.23-20 090	3214 050-559	3021 010-080 (8.0)
C10-391.23-25 105	3214 050-590	3021 010-100 (10.0)
C10-391.23-32 110	3214 050-610	3021 010-100 (10.0)
C10-391.23-40 115	3214 050-611	3021 010-100 (10.0)
C10-391.23-50 120	3214 050-661	3021 010-120 (12.0)

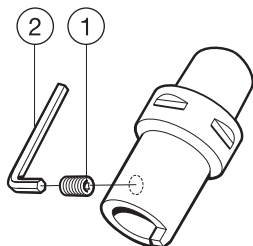
Inch version	1	2 ¹⁾	3	4
	Screw	Key (inch)	Pin	Plug
C6-A391.23-19 066	5514 021-04	3021 011-516 (5/16)	5552 020-12	5643 012-02
C6-A391.23-25 085	5514 021-05	3021 011-380 (3/8)		
C6-A391.23-31 085	5514 021-05	3021 011-380 (3/8)		
C6-A391.23-38 090	5514 021-05	3021 011-380 (3/8)		
C8-A391.23-19 075	5514 021-04	3021 011-516 (5/16)	5552 020-13	5643 012-03
C8-A391.23-25 080	5514 021-05	3021 011-380 (3/8)		
C8-A391.23-31 080	5514 021-05	3021 011-380 (3/8)		
C8-A391.23-38 085	5514 021-05	3021 011-380 (3/8)		
C8-A391.23-50 115	5514 021-07	3021 011-916 (9/16)		
C10-A391.23-19 090	5514 021-04	3021 011-516 (5/16)		
C10-A391.23-25 105	5514 021-05	3021 011-380 (3/8)		
C10-A391.23-31 110	5514 021-05	3021 011-380 (3/8)		
C10-A391.23-38 115	5514 021-05	3021 011-380 (3/8)		
C10-A391.23-50 120	5514 021-07	3021 011-916 (9/16)		

¹⁾ Accessories, must be ordered separately

Adaptors for drills

Cx-391.25

For Coromant Whistle Notch shank

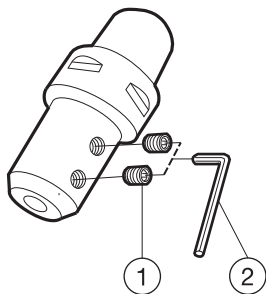


	1	2 ¹⁾
	Screw	Key (mm)
Cx-391.25-16 xxx	416.1-836	3021 010-040 (4.0)
Cx-391.25- 20 xxx	416.1-836	3021 010-040 (4.0)
Cx-391.25- 25 xxx	416.1-837	3021 010-050 (5.0)
Cx-391.25- 32 xxx	416.1-838	3021 010-060 (6.0)
Cx-391.25- 40 xxx	416.1-839	3021 010-080 (8.0)

¹⁾ Accessories, must be ordered separately

Cx-391.27

ISO 9766 Shank

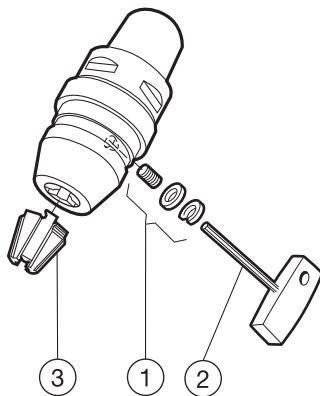


	1	2 ¹⁾
	Screw	Key (mm)
Cx-391.27- 16 xxx	5514 042-04	3021 010-040 (4.0)
Cx-391.27- 20 xxx	5514 042-04	3021 010-040 (4.0)
Cx-391.27- 25 xxx	416.1-838	3021 010-060 (6.0)
Cx-391.27- 32 xxx	416.1-838	3021 010-060 (6.0)
Cx-391.27- 40 xxx	5514 042-06	3021 010-080 (8.0)
Cx-391.27- 50 xxx	5514 042-06	3021 010-080 (8.0)

¹⁾ Accessories, must be ordered separately

Drill chuck

Cx-391.31

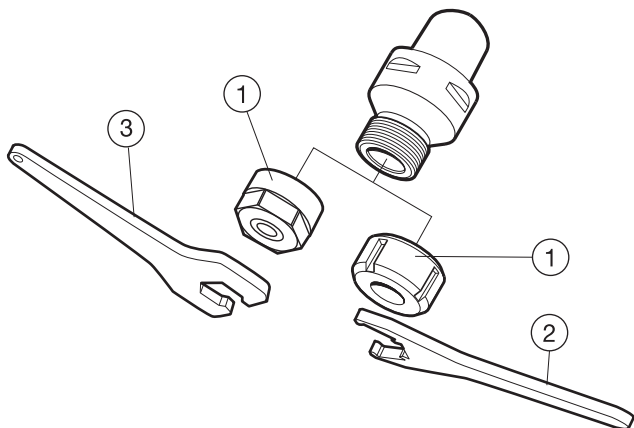


	1	2 ¹⁾	3
	Worm screw set	Key	Chuck jaw set
Cx-391.31-10 xxxM	5519 070-021	5680 017-03	5471 010-03
Cx-391.31-13 xxx	5519 070-011	5680 017-03	5471 010-01

¹⁾ Accessories, must be ordered separately

ER collet chuck adaptors

Cx-391.14



	1	2 ¹⁾	3 ¹⁾
	Locking nut	Wrench	Wrench
Cx-391.14-16 xxx	5533 050-06	-	5680 091-01
Cx-391.14-20 xxx	5533 050-08	-	5680 091-02
Cx-391.14-25 xxx	5533 050-02	5680 096-02	-
Cx-391.14-32 xxx	5533 050-03	5680 096-03	-
Cx-391.14-40 xxx	5533 050-04	5680 096-04	-
Cx-391.14-50 xxx	5533 050-05	5680 096-05	-

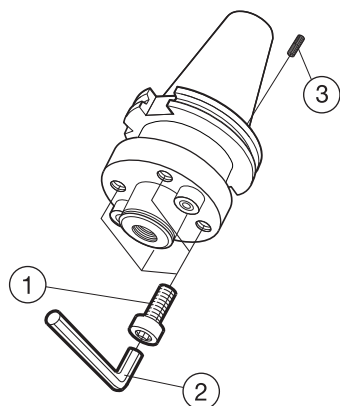
¹⁾ Accessories, must be ordered separately

Face milling holder for flange mounting

Face milling holder for flange mounting

A1F05 / A2F05

Metric pilot



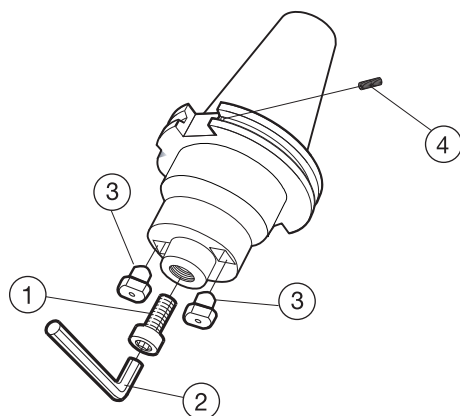
	1	2	3
A1F05 A2F05			Plastic dowel set (50 pieces)
	Screw (4 x)	Key ¹⁾	
-xx 60 xxx	3212 010-566	3021 010-140 (14.0)	5643 017-02

¹⁾ Accessories, not delivered with the tool, must be ordered separately.

Face mill holder

AA205 / AA305

Inch pilot

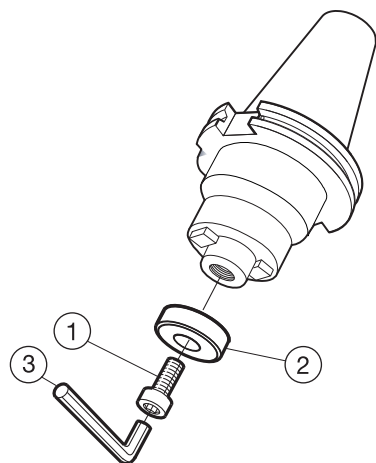


	1	2	3	4 ²⁾
AA3B05 AA2B05/AA205	Centre screw	Key (inch) ¹⁾	Drive key	Coolant screw
AA3B05-40 19 xxx	3212 030-606	3021 011-516 (5/16")	5631 062-01	3214 010-253
AA3B05-40 25 xxx	3212 030-707	3021 011-380 (3/8")	5631 062-02	3214 010-253
AA3B05-40 32 xxx	3212 030-757	-	5631 062-03	3214 010-253
AA3B05-40 38 xxx	5512 065-10	3021 011-380 (3/8")	5631 062-04	3214 010-253
AA3B05-50 19 xxx	3212 030-606	3021 011-516 (5/16")	5631 062-01	3214 010-355
AA3B05-50 25 xxx	3212 030-707	3021 011-380 (3/8")	5631 062-02	3214 010-355
AA3B05-50 32 xxx	3212 030-757	-	5631 062-03	3214 010-355
AA3B05-50 38 xxx	5512 065-10	3021 011-380 (3/8")	5631 062-04	3214 010-355
AA3B05-50 51 xxx	5512 065-11	3021 011-916 (9/16")	5631 062-05	3214 010-355
AA3B05-50 63 xxx	5512 065-11	3021 011-916 (9/16")	5631 062-06	3214 010-355
AA205-30 19 xxx	3212 030-606	3021 011-516 (5/16")	5631 062-01	-
AA205-30 25 xxx	3212 030-707	3021 011-380 (3/8")	5631 062-02	-
AA2B05-40 19 xxx	3212 030-606	3021 011-516 (5/16")	5631 062-01	3214 010-253
AA2B05-40 25 xxx	3212 030-707	3021 011-380 (3/8")	5631 062-02	3214 010-253
AA2B05-40 32 xxx	3212 030-757	-	5631 062-03	3214 010-253
AA2B05-40 38 xxx	5512 065-10	3021 011-380 (3/8")	5631 062-04	3214 010-253

¹⁾ Accessories, not delivered with the tool, must be ordered separately.

AA3B05

Metric pilot

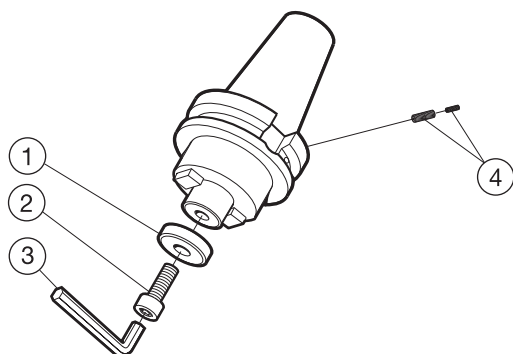


	1	2	3	4
AA3B05				Flange mounting
	Centre screw	Washer	Key (mm) ¹⁾	Screw
AA3B05-40 16 035	3212 020-410	5541 015-01	3021 010-060 (6.0)	-
AA3B05-40 22 035	3212 020-461	5541 015-02	3021 010-080 (8.0)	-
AA3B05-40 27 050	3212 020-512	5541 015-03	3021 010-100 (10.0)	-
AA3B05-40 27 050	3212 020-563	5541 015-04	3021 010-120 (12.0)	-
AA3B05-50 22 035	3212 020-461	5541 015-02	3021 010-080 (8.0)	-
AA3B05-50 22 050	3212 020-563	5541 015-04	3021 010-120 (12.0)	-
AA3B05-50 27 035	3212 020-512	5541 015-03	3021 010-100 (10.0)	-
AA3B05-50 40 050	3212 020-614	5541 015-04	3021 010-140 (14.0)	3212 020-514

¹⁾ Accessories, not delivered with the tool, must be ordered separately.

Face mill holder

A1B05 / A2B05



Arbor mounting screws with coolant hole

Arbor size	Screw	Key (mm) ²⁾
16	5512 073-03 (M8)	3021 010-060 (6.0)
22	5512 073-01 (M10)	3021 010-080 (8.0)
22 ¹⁾	5512 073-04 ¹⁾ (M10)	3021 010-080 (8.0)
27	5512 073-02 (M12)	3021 010-100 (10.0)
32	5512 073-05 (M16)	3021 010-140 (14.0)

¹⁾ Optimized: Low head/small head-diameter

²⁾ Accessories, must be ordered separately.

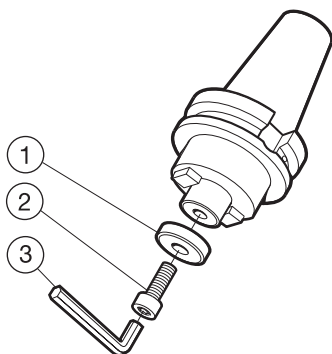
For CoroMill® 365, CoroMill® Century and CoroMill® 210 a unique screw, with coolant hole, is used. This has to be ordered separately. See ordering pages for these cutters.

Metric pilot

A1B05 A2B05	1	2	3 ¹⁾	4 Plastic dowel and screw (set of 50 pieces each)	
	Washer	Centre screw	Key (mm)	ISO 40	ISO 50
-xx 16 xxx	5541 015-01	3212 020-410	3021 010-060 (6.0)	5643 017-01	5643 017-02
-xx 22 xxx	5541 015-02	3212 020-461	3021 010-080 (8.0)	5643 017-01	5643 017-02
-xx 27 xxx	5541 015-03	3212 020-512	3021 010-100 (10.0)	5643 017-01	5643 017-02
-xx 32 xxx	5541 015-04	3212 020-563	3021 010-120 (12.0)	5643 017-01	5643 017-02
-xx 40 xxx	5541 015-05	3212 020-614	3021 010-140 (14.0)	5643 017-01	5643 017-02

¹⁾ Accessories, must be ordered separately

A205 Metric pilot

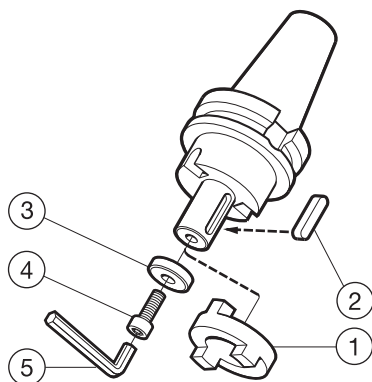


	1	2	3
	Washer	Centre screw	Key (mm) ¹⁾
A205-30 16 035	5541 015-01	3212 020-410	3021 010-060 (6.0)
A205-30 22 035	5541 015-02	3212 020-461	3021 010-080 (8.0)
A205-30 27 035	5541 015-03	3212 020-512	3021 010-100 (10.0)
A205-30 32 050	5541 015-03	3212 020-563	3021 010-110 (12.0)

¹⁾ Accessories, not delivered with the tool, must be ordered separately.

Combi Face mill holder

A2B05



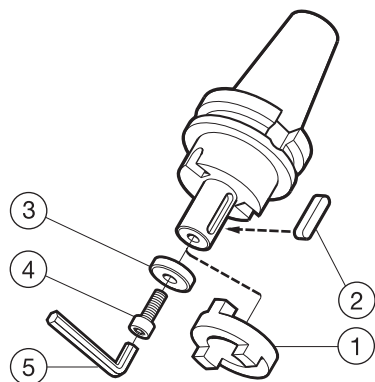
A2B05	1	2	3	4	5 ¹⁾
	Driving ring	Parallell key	Washer	Centre screw	Key (mm)
-xx 16 xxx	3193 010-160	3191 010-460	5541 015-01	3212 020-410	3021 010-060 (6.0)
-xx 22 xxx	3193 010-220	3191 010-562	5541 015-02	3212 020-461	3021 010-080 (8.0)
-xx 27 xxx	3193 010-270	5632 010-06	5541 015-03	3212 020-512	3021 010-100 (10.0)

¹⁾ Accessories, must be ordered separately

Side and face mill holder

Side and face mill holder

A1B08, A208, A2B08, AA3B10



Metric pilot	1	2	3	4	5
	Driving ring	Parallel key	Washer	Screw	Key (mm) ¹⁾
A1B08-40 22 055	3193 010 220	3191 010 562	5541 015-02	3212 020-464	3021 010-080 (8.0)
A1B08-40 27 055	3193 010 270	5632 010-06	5541 015-03	3212 020-512	3021 010-100 (10.0)
A1B08-40 32 060	3193 010 320	3191 010 07	5541 015-04	3212 020-563	3021 010-120 (12.0)
A1B08-40 40 060	3193 010 400	3191 010 664	5541 015-05	3212 020-614	3021 010-140 (14.0)
A208-30 16 045	3193 010 160	3191 010 460	5541 015-01	3212 020-410	3021 010-050 (6.0)
A208-30 22 047	3193 010 220	3191 010 562	5541 015-02	3212 020-461	3021 010-080 (8.0)
A208-30 27 050	3193 010 270	5632 010-06	5541 015-03	3212 020-512	3021 010-100 (10.0)
A2B08-40 22 055	3193 010 220	3191 010 562	5541 015-02	3212 020-461	3021 010-080 (8.0)
A2B08-40 27 055	3193 010 270	5632 010-06	5541 015-03	3212 020-512	3021 010-100 (10.0)
A2B08-40 32 060	3193 010 320	3191 010 07	5541 015-04	3212 020-563	3021 010-120 (12.0)
A2B08-40 40 070	3193 010 400	3191 010 664	5541 015-05	3212 020-614	3021 010-140 (14.0)
Inch pilot	2	4	5		
	Parallel key	Screw	Key (inch) ¹⁾		
AA3B10-40 25 055	SK 512	5512 065-06			
AA3B10-40 31 060	SK 627	5512 065-10	3193 010 270		
AA3B10-40 38 060	SK 414	5512 065-05	3193 010 320		

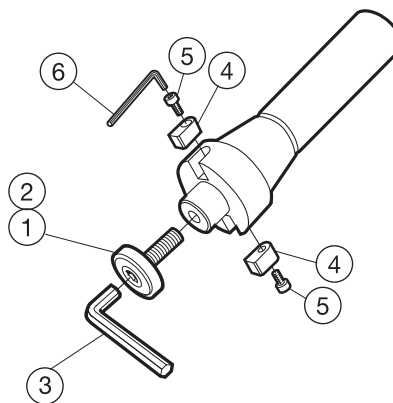
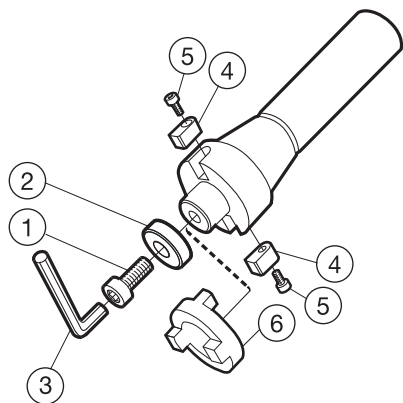
¹⁾ Accessories, must be ordered separately

Face mill holder

Bridgeport

392.R8.05

A392.R8.05

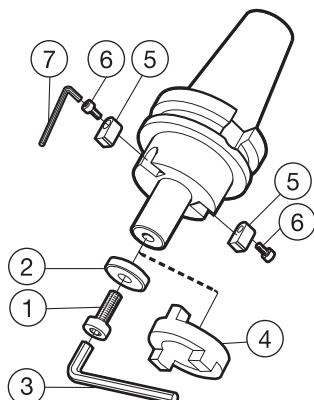


Metric pilot	1	2	3	4	5	6
	Centre screw	Washer	Key (mm) ¹⁾	Driving key	Screw	Driving ring
392.R8.05-16 020	3212 020-414	5541 015-01	3021 010-060 (6.0)	-	-	3193 020-160
392.R8.05-22 020	3212 020-464	5541 015-02	3021 010-080 (8.0)	5631 011-01	3213 010-258	-
Inch pilot	1	2	3	4	5	6
	Centre screw	Centre screw	Key (inch) ¹⁾	Driving key	Screw	Key (inch) ¹⁾
A392.R8.05-19 020	5512 065-02	5512 065-07	3021 011-316 (3/16)	5631 013-01	8-32x3/8M	3021 011-140 (1/4)
A392.R8.05-25 020	5512 065-03	5512 065-05	3021 011-516 (5/16)	5631 013-02	10-32x3/8	

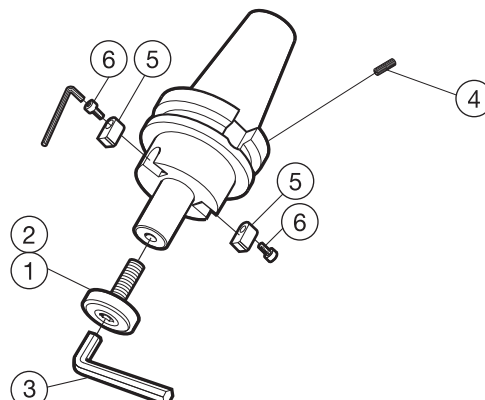
¹⁾ Accessories, must be ordered separately

Face mill holder

BIG-PLUS
392.54005C
Metric pilot



BIG-PLUS CAT V
A392.54005C
Inch pilot



Metric pilot	1	2	3	4	5	6	7
	Screw	Washer	Key (mm) ¹⁾	Driving ring	Driving key	Screw	Key (mm)
392.54005C4016045	3212 020-414	5541 015-01	3021 010-060 (6.0)	3193 010-160	-	-	-
392.54005C4022040	3212 020-464	5541 015-02	3021 010-080 (8.0)	-	5631 012-01	3212 010-258	3021 010-030 (3.0)
392.54005C4027050	3212 020-514	5541 015-03	3021 010-100 (10.0)	-	5631 010-01	3212 010-258	3021 010-030 (3.0)
392.54005C4032055	3212 020-564	5541 015-04	3021 010-120 (12.0)	-	5631 010-11	3212 010-308	3021 010-040 (4.0)
392.54005C4040055	3212 020-614	5541 015-05	3021 010-140 (12.0)	-	5631 051-02	3212 010-359	3021 010-050 (5.0)
392.55505C4016050	3212 020-414	5541 015-01	3021 010-060 (6.0)	3193 010-160	-	-	-
392.55505C4022045	3212 020-464	5541 015-02	3021 010-080 (8.0)	-	5631 012-01	3212 010-258	3021 010-030 (3.0)
392.55505C4027045	3212 020-514	5541 015-03	3021 010-100 (10.0)	-	5631 010-01	3212 010-258	3021 010-030 (3.0)
392.55505C4032050	3212 020-564	5541 015-04	3021 010-120 (12.0)	-	5631 010-11	3212 010-308	3021 010-040 (4.0)
392.55505C4040050	3212 020-614	5541 015-05	3021 010-140 (12.0)	-	5631 051-02	3212 010-359	3021 010-050 (5.0)
Inch pilot	1	2	3	4	5	6	
	Screw	Screw	Key (inch) ¹⁾	Screw	Driving key	Screw	
A392.54505C4019040	5512 065-02	5512 065-07	3021 011-316 (3/16")	5514 011-02	5631 013-01	8-32x3/8M	
A392.54505C4025055	5512 065-03	5512 065-05	3021 011-516 (5/16")	5514 011-02	5631 013-02	10-32x3/8	
A392.54505C4038060	5512 065-04	5512 065-10	3021 011-380 (3/8")	5514 011-02	5631 013-04	1/4-20x3/4	

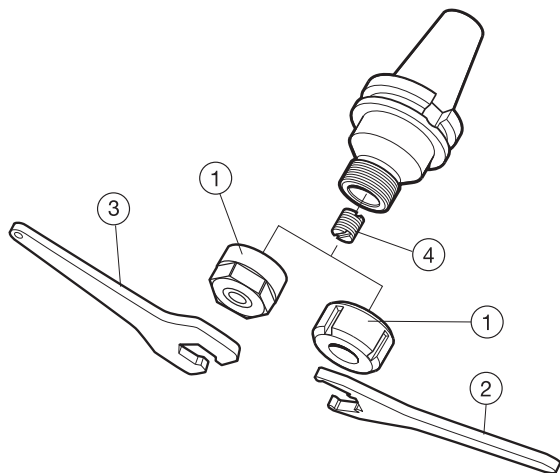
¹⁾ Accessories, must be ordered separately

ER collet chuck

For DIN 6499 collets

CAT V

AA3B14



AA3B14	1	2 ¹⁾	3 ¹⁾	4 ¹⁾
	Locking nut	Wrench	Wrench	Stop screw
-xx 16 xxx	5533 050-06	-	5680 091-01	5514 044-01
-xx 20 xxx	5533 050-08	-	5680 091-02	5514 018-01
-xx 25 xxx	5533 050-02	5680 096-02	-	5514 018-03
-xx 32 xxx	5533 050-03	5680 096-03	-	5514 018-04
-xx 40 xxx	5533 050-04	5680 096-04	-	5514 018-02

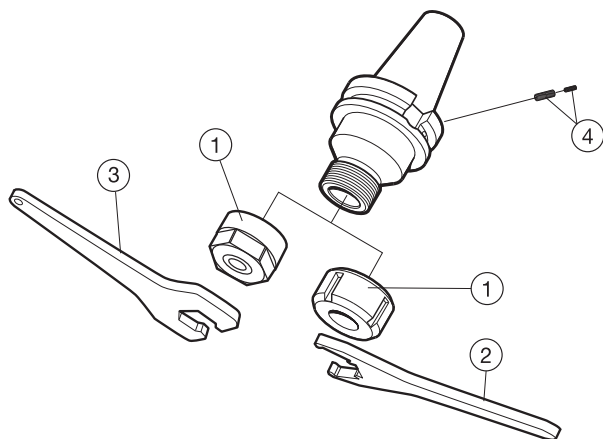
¹⁾ Accessories, not delivered with the tool, must be ordered separately.

Collet chuck

For DIN 6499 collets

ISO 7388, MAS-BT 403

A1B14 / A2B14



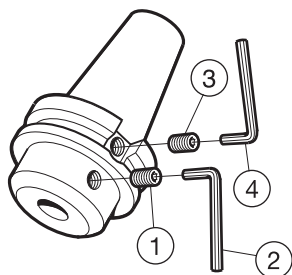
A1B14 A2B14	1	2 ¹⁾	3 ¹⁾	4 ¹⁾	5 ¹⁾ Plastic dowel and screw (set of 50 pieces each)	
	Locking nut	Wrench	Wrench	ISO 30	ISO 40	ISO 50
-xx 11 xxx	5533 050-07	-	-	-	-	-
-xx 16 xxx	5533 050-06	-	5680 091-01	-	5643 017-01	5643 017-02
-xx 20 xxx	5533 050-08	-	5680 091-02	-	5643 017-01	5643 017-02
-xx 25 xxx	5533 050-02	5680 096-02	-	-	5643 017-01	5643 017-02
-xx 32 xxx	5533 050-03	5680 096-03	-	-	5643 017-01	5643 017-02
-xx 40 xxx	5533 050-04	5680 096-04	-	-	5643 017-01	5643 017-02

¹⁾ Accessories, not delivered with the tool, must be ordered separately.

End mill holder, Weldon type, short version

Shank according to DIN 6535-HB

A1X20 / A2X20

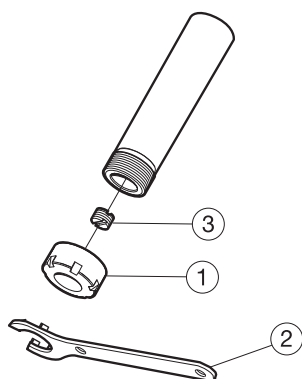


	1	2	3	4
A1X20 A2X20	Screw	Key (mm) ¹⁾	Screw	Key (mm) ¹⁾
A1X20-xx 16 xxx	3214 050-539	3021 010-060 (6.0)		
A1X20-xx 18 xxx	5514 023-03	3021 010-060 (6.0)		
A1X20-xx 20 xxx	5514 023-04	3021 010-080 (8.0)		
A1X20-xx 25 xxx	5514 023-05	3021 010-100 (10.0)		
A1X20-xx 32 xxx	3214 050-610	3021 010-100 (10.0)	5514 023-02	3021 010-040 (4.0)
A2X20-xx 16 xxx	5514 023-03	3021 010-060 (6.0)		
A2X20-xx 18 xxx	5514 023-03	3021 010-060 (6.0)		
A2X20-xx 20 xxx	5514 023-04	3021 010-060 (6.0)		
A2X20-xx 25 xxx	5514 023-06	3021 010-100 (10.0)	3214 050-407	3021 010-040 (4.0)
A2X20-xx 32 xxx	5514 023-08	3021 010-100 (10.0)	3214 010-406	3021 010-040 (4.0)

¹⁾ Accessories, not delivered with the tool, must be ordered separately.

Collet chuck extension

A393.14
393.14



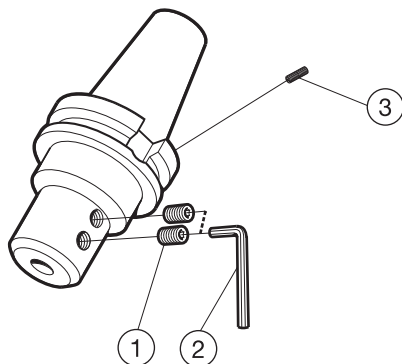
	1	2 ¹⁾	3 ¹⁾
A393.14-13 16 182 A393.14-19 16 182 A393.14-19 20 187 A393.14-26 20 203 A393.14-19 25 203 A393.14-26 25 203 A393.14-26 32 203 393.14-08 11 056 393.14-12 16 080 393.14-16 11 150 393.14-20 16 155 393.14-25 20 170A	Locking nut	Wrench	Stop screw
A393.14-13 16 182	5533 065-03	5680 098-03	3214 010-360
A393.14-19 16 182	5533 065-03	5680 098-03	5514 014-02
A393.14-19 20 187	5533 065-01	5680 098-01	5514 014-02
A393.14-26 20 203	5533 065-01	5680 098-01	5514 014-03
A393.14-19 25 203	5533 050-02	5680 096-02	5514 014-02
A393.14-26 25 203	5533 050-02	5680 096-02	5514 014-04
A393.14-26 32 203	5533 050-03	5680 096-03	5514 014-04
393.14-08 11 056	5533 065-02	5680 098-02	-
393.14-12 16 080	5533 065-03	5680 098-03	-
393.14-16 11 150	5533 065-02	5680 098-02	5514 014-01
393.14-20 16 155	5533 065-03	5680 098-03	5514 014-02
393.14-25 20 170A	5533 065-01	5680 098-01	5514 014-03

¹⁾ Accessories, must be ordered separately

End mill holder, Weldon type

Metric bore with CAT V-flange

392.45520



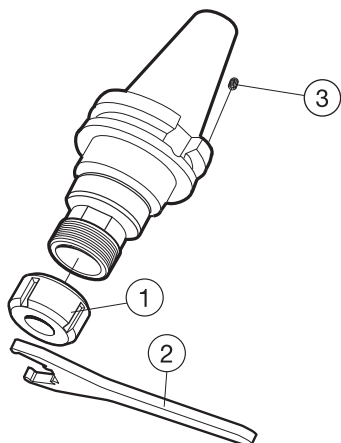
	1	2 ¹⁾	3
392.45520-40 20 089 392.45520-40 25 100 392.45520-50 20 095 392.45520-50 25 100 392.45520-50 32 100 392.45520-50 40 100	Screw	Key	Coolant screw
392.45520-40 20 089	5514 022-08	3021 011-516	3214 010-253
392.45520-40 25 100	5514 022-09	3021 011-380	3214 010-253
392.45520-50 20 095	5514 022-08	3021 011-516	3214 010-255
392.45520-50 25 100	5514 022-09	3021 011-380	3214 010-255
392.45520-50 32 100	5514 022-07	3021 011-380	3214 010-255
392.45520-50 40 100	5514 022-07	3021 011-380	3214 010-255

¹⁾ Accessories, not delivered with the tool, must be ordered separately.

ER collet chuck

BIG-PLUS

392.54014 / 392.55514 / A392.54514

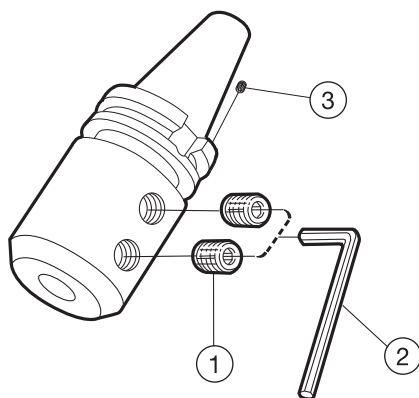


	1	2	3
	Collet nut	Key	Screw
392.54014-4025070	5533 050-02	5680 096-02	5514 011-02
392.54014-4040075	5533 050-04	5680 096-04	5514 011-02
392.55514-4025070	5533 050-02	5680 096-02	5514 011-02
392.55514-4040070	5533 050-04	5680 096-04	5514 011-02
A392.54514-4025070	5533 050-02	5680 096-02	5514 011-02
A392.54514-4040075	5533 050-04	5680 096-04	5514 011-02

Combination Weldon / ISO9766

BIG-PLUS

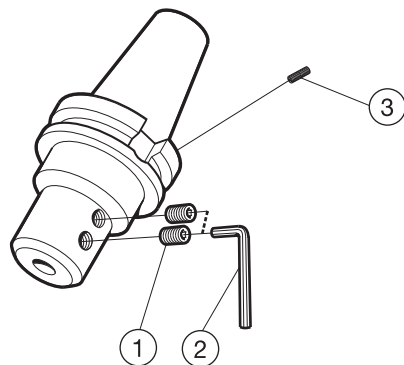
392.54023 / 392.55523 / A392.5453



	1	2	3
	Screw	Key (mm/inch)	Screw
392.54023-4020070	3214 050-559	3021 010-080 (8.0)	5514 011-02
392.54023-4025100	3214 050-590	3021 010-100 (10.0)	5514 011-02
392.54023-4032105	3214 050-610	3021 010-100 (10.0)	5514 011-02
392.54023-4040115	3214 050-611	3021 010-100 (10.0)	5514 011-02
392.55523-4020065	3214 050-559	3021 010-080 (8.0)	5514 011-02
392.55523-4025090	3214 050-590	3021 010-100 (10.0)	5514 011-02
392.55523-4032100	3214 050-610	3021 010-100 (10.0)	5514 011-02
392.55523-4040110	3214 050-611	3021 010-100 (10.0)	5514 011-02
A392.54523-4019065	5514 021-04	3021 011-516 (5/16")	5514 011-02
A392.54523-4025100	5514 021-05	3021 011-380 (3/8")	5514 011-02
A392.54523-4031100	5514 021-05	3021 011-380 (3/8")	5514 011-02

End mill holder, Weldon type

AA3B20/ AA2B20/AA220



End mill holder, Weldon type

	1	2	3 ²⁾
AA3B20 AA2B20/AA220	Screw	Key (inch) ¹⁾	Coolant screw
AA3B20-40 03 xxx	5514 022-01	3021 011-532 (5/32")	3214 010-253
AA3B20-40 06 xxx	5514 022-03	3021 011-316 (3/16")	3214 010-253
AA3B20-40 09 xxx	5514 022-04	3021 011-140 (1/4")	3214 010-253
AA3B20-40 13 xxx	5514 022-05	3021 011-732 (7/32")	3214 010-253
AA3B20-40 16 xxx	5514 022-06	3021 011-140 (1/4")	3214 010-253
AA3B20-40 19 xxx	5514 022-08	3021 011-516 (5/16")	3214 010-253
AA3B20-40 22 xxx	5514 022-08	3021 011-516 (5/16")	3214 010-253
AA3B20-40 25 044	5514 022-10	3021 010-080 (8 mm)	3214 010-253
AA3B20-40 25 101	5514 022-09	3021 011-380 (3/8")	3214 010-253
AA3B20-40 32 xxx	5514 022-07	3021 011-380 (3/8")	3214 010-253
AA3B20-40 38 xxx	5514 022-07	3021 011-380 (3/8")	3214 010-253
AA3B20-50 09 xxx	5514 022-04	3021 011-140 (1/4")	3214 010-355
AA3B20-50 13 xxx	5514 022-05	3021 011-732 (7/32")	3214 010-355
AA3B20-50 16 xxx	5514 022-06	3021 011-140 (1/4")	3214 010-355
AA3B20-50 19 xxx	5514 022-08	3021 011-516 (5/16")	3214 010-355
AA3B20-50 22 xxx	5514 022-08	3021 011-516 (5/16")	3214 010-355
AA3B20-50 25 xxx	5514 022-09	3021 011-380 (3/8")	3214 010-355
AA3B20-50 32 xxx	5514 022-07	3021 011-516 (5/16")	3214 010-355
AA3B20-50 38 xxx	5514 022-07	3021 011-380 (3/8")	3214 010-355
AA3B20-50 51 xxx	5514 022-02	- (1/2")	3214 010-355
AA220-30 03 xxx	5514 022-01	3021 011-532 (5/32")	-
AA220-30 06 xxx	5514 022-03	3021 011-316 (3/16")	-
AA220-30 09 xxx	5514 022-04	3021 011-140 (1/4")	-
AA2B20-40 09 xxx	5514 022-04	3021 011-140 (1/4")	3214 010-253
AA2B20-40 13 xxx	5514 022-05	3021 011-732 (7/32")	3214 010-253
AA2B20-40 16 xxx	5514 022-06	3021 011-140 (1/4")	3214 010-253
AA2B20-40 19 xxx	5514 022-08	3021 011-516 (5/16")	3214 010-253
AA2B20-40 25 xxx	5514 022-09	3021 011-380 (3/8")	3214 010-253
AA2B20-40 32 xxx	5514 022-07	3021 011-516 (5/16")	3214 010-253

¹⁾ Accessories, not delivered with the tool, must be ordered separately.

²⁾ Only new products with B in the code have coolant through centre and flange.

End mill holder, Weldon type

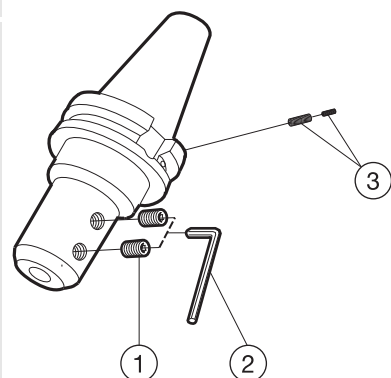
Inch bore

Shank according to DIN 6535-HB

Metric bore

ISO 7388/I

A1B20



	1	2	3	
			Plastic dowel and screw (set of 50 pieces each) ¹⁾	
A1B20	Screw	Key (mm) ¹⁾	ISO 40	ISO 50
-xx 06 xxx	3214 050-357	174.1-864 (3.0)	5643 017-01	5643 017-02
-xx 08 xxx	3214 050-407	3021 010-040 (4.0)	5643 017-01	5643 017-02
-xx 10 xxx	3214 050-458	3021 010-050 (5.0)	5643 017-01	5643 017-02
-xx 12 xxx	3214 050-509	3021 010-060 (6.0)	5643 017-01	5643 017-02
-xx 16 xxx	3214 050-539	3021 010-060 (6.0)	5643 017-01	5643 017-02
-xx 18 xxx	3214 050-539	3021 010-060 (6.0)	5643 017-01	5643 017-02
-xx 20 xxx	3214 050-559	3021 010-080 (8.0)	5643 017-01	5643 017-02
-xx 25 xxx	3214 050-590	3021 010-100 (10.0)	5643 017-01	5643 017-02
-xx 32 xxx	3214 050-610	3021 010-100 (10.0)	5643 017-01	5643 017-02
-xx 40 xxx	3214 050-610	3021 010-100 (10.0)	5643 017-01	5643 017-02

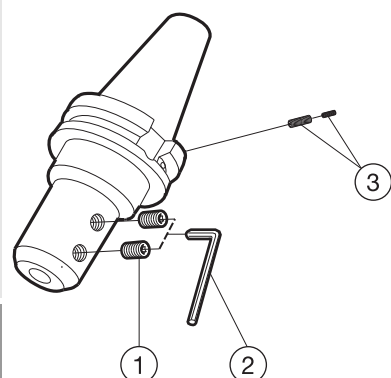
¹⁾ Accessories, not delivered with the tool, must be ordered separately.

Shank according to DIN 6535-HB

Metric bore

MAS 403 BT

A2B20



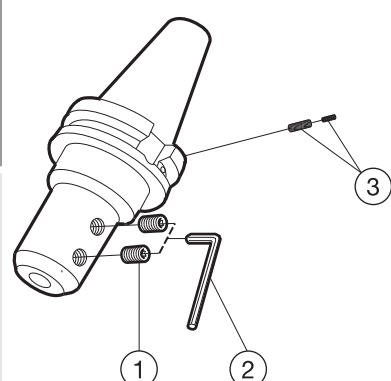
	1	2	3		
			Plastic dowel and screw (set of 50 pieces each) ¹⁾		
A2B20	Screw	Key (mm) ¹⁾	ISO 30	ISO 40	ISO 50
-xx 06 xxx	3214 050-357	174.1-864 (3.0)	-	5643 017-01	5643 017-02
-xx 08 xxx	3214 050-407	3021 010-040 (4.0)	-	5643 017-01	5643 017-02
-xx 10 xxx	3214 050-458	3021 010-050 (5.0)	-	5643 017-01	5643 017-02
-xx 12 xxx	3214 050-509	3021 010-060 (6.0)	-	5643 017-01	5643 017-02
-xx 16 xxx	3214 050-539	3021 010-060 (6.0)	-	5643 017-01	5643 017-02
-xx 20 xxx	3214 050-559	3021 010-080 (8.0)	-	5643 017-01	5643 017-02
-40 25 xxx	5514 023-06	3021 010-100 (10.0)	-	5643 017-01	5643 017-02
-50 25 xxx	3214 050-590	3021 010-100 (10.0)	-	5643 017-01	5643 017-02
-50 32 xxx	3214 050-610	3021 010-100 (10.0)	-	5643 017-01	5643 017-02
-40 32 xxx	5514 023-07	3021 010-100 (10.0)	-	5643 017-01	5643 017-02
-40 32 100 ²⁾	3214 050-610	3021 010-100 (10.0)	-	-	-
-xx 40 xxx	3214 050-610	3021 010-100 (10.0)	-	5643 017-01	5643 017-02

¹⁾ Accessories, not delivered with the tool, must be ordered separately.

²⁾ Two screws are used, 3214 050-610 and 5514 023-07. Key for both is 3021 010-100.

Holder for Coromant Delta drills, CoroDrill® 880 and Coromant U drills

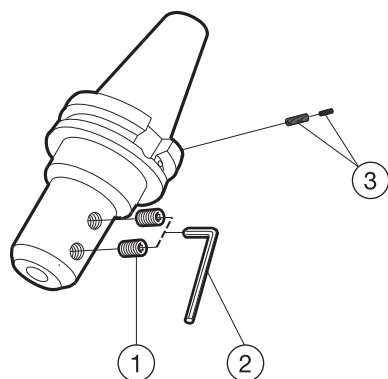
A1B27 / A2B27



	1	2 ¹⁾	3 ¹⁾	
			Plastic dowel and screw (set of 50 pieces each)	
A1B27 A2B27	Screw	Key (mm)	ISO 40	ISO 50
-xx 16 xxx	5514 042-04	3021 010-040 (4.0)	5643 017-01	5643 017-02
-xx 20 xxx	5514 042-04	3021 010-040 (4.0)	5643 017-01	5643 017-02
-xx 25 xxx	416-1-838	3021 010-060 (6.0)	5643 017-01	5643 017-02
-xx 32 xxx	416.1-838	3021 010-060 (6.0)	5643 017-01	5643 017-02
-xx 40 xxx	5514 042-03	3021 010-080 (8.0)	5643 017-01	5643 017-02
-xx 50 xxx	416.1-839	3021 010-080 (8.0)	5643 017-01	5643 017-02

¹⁾ Accessories, must be ordered separately

Drill holder, ISO 9766 shank

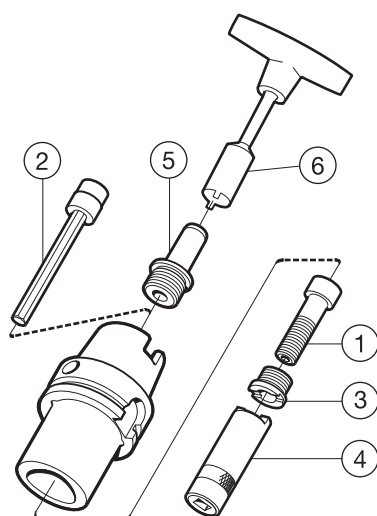


	1	2	3 ¹⁾
AA3B27	Screw	Key (inch) ¹⁾	Coolant screw
AA3B27-40 19 080	5514 022-05	3021 011-732 (7/32")	3214 010-253
AA3B27-40 25 085	5514 022-05	3021 011-732 (7/32")	3214 010-253
AA3B27-40 32 090	5514 022-06	3021 011-140 (1/4")	3214 010-253
AA3B27-50 19 080	5514 022-05	3021 011-732 (7/32")	3214 010-355
AA3B27-50 25 085	5514 022-06	3021 011-140 (1/4")	3214 010-355
AA3B27-50 32 090	5514 022-06	3021 011-140 (1/4")	3214 010-355
AA3B27-50 38 090	5514 022-09	3021 011-916 (9/16")	3214 010-355
AA3B27-50 51 110	5514 022-09	3021 011-916 (9/16")	3214 010-355

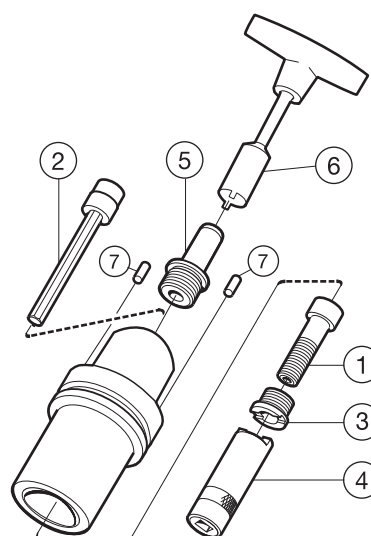
¹⁾ Accessories, must be ordered separately

Basic holders

Cx390.410
Cx-390.419



HSK F
Cx.390.612



Coromant Capto®	1	2 ¹⁾	3	4 ¹⁾	5	6 ¹⁾
	Centre screw	Extension key (mm)	Retaining nut	Retaining nut spanner	Coolant tube	Key
C3-390.410-40 065	5512 067-01	5680 015-05 (8.0)	5512 091-04	5680 065-13	5692 020-02	5680 094-02
C3-390.410-50 075A	5512 067-01	5680 015-05 (8.0)	5512 091-04	5680 065-13	5692 020-03	5680 094-03
C3-390.410-63 075C	5512 067-01	5680 015-05 (8.0)	5512 091-04	5680 065-13	5692 020-04	5680 094-04
C3-390.410-80 080	5512 067-01	5680 015-05 (8.0)	5512 091-04	5680 065-13	5692 020-05	5680 094-05
C3-390.410-100 080A	5512 067-01	5680 015-05 (8.0)	5512 091-04	5680 065-13	5692 020-06	5680 094-06
C4-390.410-50 080A	5512 067-02	5680 015-05 (8.0)	5512 091-03	5680 065-10	5692 020-03	5680 094-03
C4-390.410-63 080C	5512 067-02	5680 015-05 (8.0)	5512 091-03	5680 065-10	5692 020-04	5680 094-04
C4-390.410-80 090	5512 067-02	5680 015-05 (8.0)	5512 091-03	5680 065-10	5692 020-05	5680 094-05
C4-390.410-100 090A	5512 067-02	5680 015-05 (8.0)	5512 091-03	5680 065-10	5692 020-06	5680 094-06
C4-390.410-125 095	5512 067-02	5680 015-05 (8.0)	5512 091-03	5680 065-10	5692 020-06	5680 094-06
C5-390.410-63 090C	5512 067-03	5680 015-01 (10.0)	5512 091-01	5680 065-11	5692 020-04	5680 094-04
C5-390.410-80 095	5512 067-03	5680 015-01 (10.0)	5512 091-01	5680 065-11	5692 020-05	5680 094-05
C5-390.410-100 100A	5512 067-03	5680 015-01 (10.0)	5512 091-01	5680 065-11	5692 020-06	5680 094-06
C5-390.410-100100HD	5512 067-03	5680 015-01 (10.0)	5512 091-01	5680 065-11	5692 020-06	5680 094-06
C5-390.410-125 105	5512 067-03	5680 015-01 (10.0)	5512 091-01	5680 065-11	5692 020-06	5680 094-06
C6-390.410-80 110	5512 067-04	5680 015-02 (14.0)	5512 091-02	5680 065-12	5692 020-05	5680 094-05
C6-390.410-100 110A	5512 067-04	5680 015-02 (14.0)	5512 091-02	5680 065-12	5692 020-06	5680 094-06
C6-390.410-100 120A	5512 067-04	5680 015-02 (14.0)	5512 091-02	5680 065-12	5692 020-06	5680 094-06
C6-390.410-125 120	5512 067-04	5680 015-02 (14.0)	5512 091-02	5680 065-12	5692 020-07	5680 094-07
C6-390.410-100110HD	5512 067-04	5680 015-02 (14.0)	5512 091-02	5680 065-12	5692 020-07	5680 094-07
C6-390.410-125120HD	5512 067-04	5680 015-02 (14.0)	5512 091-02	5680 065-12	5692 020-07	5680 094-07
C8-390.410-125 130	5512 067-04	5680 015-02 (14.0)	5512 091-02	5680 065-12	5692 020-07	5680 094-07
C8-390.410-125130HD	5512 067-04	5680 015-02 (14.0)	5512 091-02	5680 065-12	5692 020-07	5680 094-07
C8-390.410-160 135	5512 067-04	5680 015-02 (14.0)	5512 091-02	5680 065-12	5692 020-07	5680 094-07
C10-390.410-125 160	5512 067-06	5680 015-06 (17.0)	5512 091-05	5680 065-14	5692 020-07	5680 094-07
C10-390.410-160 160	5512 067-06	5680 015-06 (17.0)	5512 091-05	5680 065-14	5692 020-07	5680 094-07

¹⁾ Accessories, must be ordered separately

Coromant Capto®	1	2 ¹⁾	3	4 ¹⁾	5	6 ¹⁾
	Centre screw	Extension key (mm)	Retaining nut	Retaining nut spanner	Coolant tube	Key
C4-390.419-40 075	5512 067-02	5680 015-05	5512 091-03	5680 065-10	5692 020-03	5680 094-03
C5-390.419-63 090	5512 067-03	5680 015-01	5512 091-01	5680 065-11	5692 020-04	5680 094-04
C6-390.419-100 110	5512 067-04	5680 015-02	5512 091-02	5680 065-12	5692 020-06	5680 094-06
C6-390.419-63 110	5512 067-04	5680 015-02	5512 091-02	5680 065-12	5692 020-04	5680 094-04
C8-390.419-100 120	5512 067-04	5680 015-02	5512 091-02	5680 065-12	5692 020-06	5680 094-06

¹⁾ Accessories, must be ordered separately

HSK F

Pin style

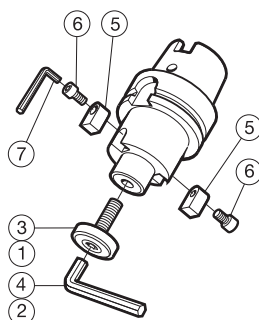
Coromant Capto®	1	2 ¹⁾	3	4 ¹⁾	5	6 ¹⁾	7
	Centre screw	Extension key (mm)	Retaining nut	Retaining nut spanner	Coolant tube	Key	Spring pin
C5-390.612 80 090	5512 063-08	5680 015-01 (10.0)	5512 091-01	5680 065-11	5692 020-04	5680 094-04	3113 030-508
C6-390.612-80 105	5512 063-09	5680 015-01 (10.0)	5512 091-02	5680 065-11	5692 020-04	5680 094-04	3113 030-508

¹⁾ Accessories, must be ordered separately

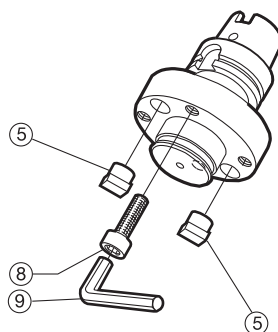
Face mill holders

Inch pilot

A392.41005



A392.41005-100 50 075 A

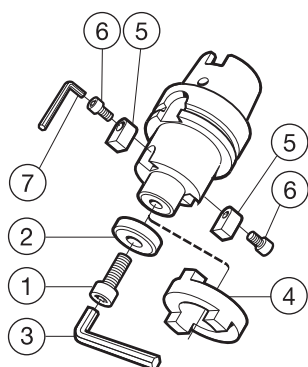


	1	2 ¹⁾	3	4 ¹⁾	5	6	7 ¹⁾	8	9 ¹⁾
	Centre screw	Key	Screw	Key	Driving key	Screw	Key	Screw	Key
A392.41005-50 19 050 A	5512 065-07	3021 011-140	5512 065-02	3021 011-316	5631 013-01	8-32 X 3/8M	(9/64")	-	-
A392.41005-50 25 060 A	5512 065-03	3021 011-516	5512 065-05	3021 011-516	5631 013-02	10-32 x 3/8	(5/32")	-	-
A392.41005-50 31 065 A	5512 065-06	3021 011-516	-	-	5631 010-06	10-32 x 5/8	(5/32")	-	-
A392.41005-63 19 050 B	5512 065-07	3021 011-140	5512 065-02	3021 011-316	5631 013-01	8-32 X 3/8M	(9/64")	-	-
A392.41005-63 25 060 B	5512 065-03	3021 011-516	5512 065-05	3021 011-516	5631 013-02	10-32 x 3/8	(5/32")	-	-
A392.41005-63 31 065 B	5512 065-06	3021 011-516	-	-	5631 013-03	10-32 x 3/4	(5/32")	-	-
A392.41005-63 38 065 B	5512 065-10	3021 011-380	5512 065-04	3021 011-380	5631 013-04	8-32 X 3/8M	(3/16")	-	-
A392.41005-100 19 050 A	5512 065-07	3021 011-140	5512 065-02	3021 011-316	5631 013-01	8-32 x 3/8M	(9/64")	-	-
A392.41005-100 25 050 A	5512 065-03	3021 011-516	5512 065-05	3021 011-516	5631 013-02	10-32 x 3/8	(5/32")	-	-
A392.41005-100 31 060 A	5512 065-06	3021 011-516	-	-	5631 013-03	10-32 x 3/4	(5/32")	-	-
A392.41005-100 38 060 A	5512 065-10	3021 011-380	5512 065-04	3021 011-380	5631 013-04	1/4-20 x 3/4	(3/16")	-	-
A392.41005-100 50 075 A	-	-	-	-	5631 060-01	-	-	3212 031-761	(1/2")

1) Accessories, must be ordered separately

Metric pilot

392.41005



	1	2	3 ¹⁾	4	5	6	7 ¹⁾
	Centre screw	Washer	Key (mm)	Driving ring	Driving key	Screw	Key (mm)
392.41005-xx 16 xxx	3212 020-414	5541 015-01	3021 010-060 (6.0)	3193 010-160	-	-	-
392.41005-xx 22 xxx	3212 020-464	5541 015-02	3021 010-080 (8.0)	-	5631 012-01	3212 010-258	174.1-864 (3.0)
392.41005-xx 27 xxx	3212 020-514	5541 015-03	3021 010-100 (10.0)	-	5631 010-01	3212 010-258	174.1-864 (3.0)
392.41005-xx 32 xxx	3212 020-564	5541 015-04	3021 010-120 (12.0)	-	5631 010-11	3212 010-308	3021 010-040 (4.0)
392.41005-63 40 xxx	3212 020-614	5541 015-05	3021 010-140 (14.0)	-	5631 051-02	3212 010-359	3021 010-050 (5.0)
392.41005-100 40 xxx	3212 020-614	5541 015-05	3021 010-140 (14.0)	-	5631 010-03	3212 010-360	3021 010-050 (5.0)
392.41005-xxx 60 xxx	3212 010-568 ²⁾	-	3021 010-140 (14.0)	-	5635 010-01	3212 010-363	3021 010-140 (14.0)

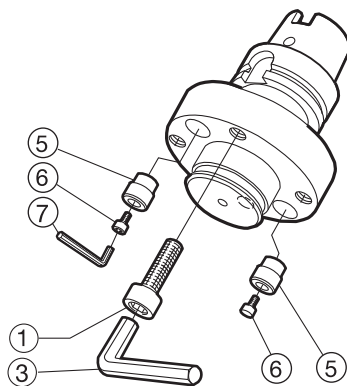
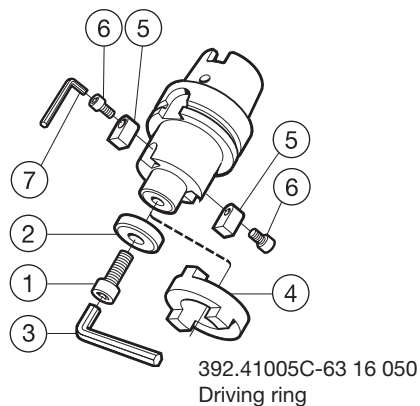
1) Accessories, must be ordered separately

2) Holder with flange clamping. For flange clamping, four screws, 3212 010 568, are used.

Face mill holders

392.41005 / 392.41005C

392.41005-125 60 085



Metric pilot

	1	2	3 ¹⁾	4	5	6	7 ¹⁾
	Mounting screw	Washer	Key (mm)	Driving ring	Driving key	Screw	Key (mm)
392.41005C-4022050	3212 020-464	5541 015-02	3021 010-080 (8.0)	-	5631 012-01	3212 010-258	3021 010-030 (3.0)
392.41005C-5022060	3212 020-464	5541 015-02	3021 010-080 (8.0)	-	5631 012-01	3212 010-258	3021 010-030 (3.0)
392.41005C6316050	3212 020-414	5541 015-01	3021 010-060 (6.0)	3193 010-160	-	-	-
392.41005C6322050	3212 020-464	5541 015-02	3021 010-080 (8.0)	-	5631 012-01	3212 010-258	3021 010-030 (3.0)
392.41005C6327060	3212 020-514	5541 015-03	3021 010-100 (10.0)	-	5631 010-01	3212 010-258	3021 010-030 (3.0)
392.41005C6332060	3212 020-564	5541 015-04	3021 010-120 (12.0)	-	5631 010-11	3212 010-308	3021 010-040 (4.0)
392.41005C6340060	3212 020-614	5541 015-05	3021 010-140 (14.0)	-	5631 051-02	3212 010-359	3021 010-050 (5.0)
392.41005C10022100	3212 020-564	5541 015-02	3021 010-080 (8.0)	-	5631 012-01	3212 010-258	3021 010-030 (3.0)
392.41005C-10027100	3212 020-614	5541 015-03	3021 010-100 (10.0)	-	5631 010-01	3212 010-258	3021 010-030 (3.0)
392.41005C-10032100	3212 020-564	5541 015-04	3021 010-120 (12.0)	-	5631 010-11	3212 010-308	3021 010-040 (4.0)
392.41005C-10040100	3212 020-614	5541 015-05	3021 010-140 (14.0)	-	5631 010-03	3212 010-360	3021 010-050 (5.0)
392.41005C-12532100	3212 020-564	5541 015-04	3021 010-120 (12.0)	-	5631 010-11	3212 010-308	3021 010-040 (4.0)
392.41005C-12540100	3212 020-614	5541 015-05	3021 010-140 (14.0)	-	5631 010-03	3212 010-360	3021 010-050 (5.0)
392.41005-12560085	3212 010-568 ²⁾	-	3021 010-140 (14.0)	-	5635 010-01	3212 010-363	3021 010-140 (14.0)

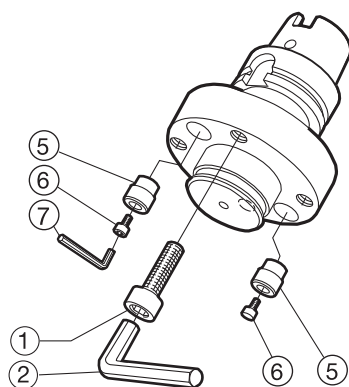
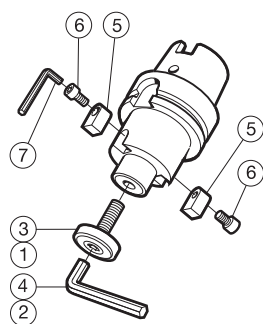
1) Accessories, must be ordered separately

2) Holder with flange clamping. For flange clamping, four screws, 3212 010 568, are used.

A392.41005 / A392.41005C

A392.41005-100 63 075

A392.41005-125 63 085



Inch pilot

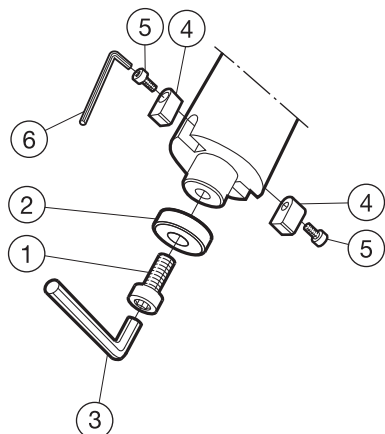
	1	2 ¹⁾	3	4 ¹⁾	5	6	7 ¹⁾
	Mounting screw	Key	Mounting screw	Key	Driving key	Screw	Key
A392.41005C6319050	5512 065-07	3021 011-140	5512 065-02	3021 011-316	5631 013-01	8-32 X 3/8M	(9/64")
A392.41005C6325060	5512 065-03	3021 011-516	5512 065-05	3021 011-516	5631 013-02	10-32 x 3/8	3021 011-532
A392.41005C6338065	5512 065-10	3021 011-380	5512 065-04	3021 011-380	5631 013-04	8-32 X 3/8M	3021 011-316
A392.41005C10019100	5512 065-07	3021 011-140	5512 065-02	3021 011-316	5631 013-01	8-32 X 3/8M	(9/64")
A392.41005C10025100	5512 065-03	3021 011-516	5512 065-05	3021 011-516	5631 013-02	10-32 x 3/8	3021 011-532
A392.41005C10038100	5512 065-10	3021 011-380	5512 065-04	3021 011-380	5631 013-04	8-32 X 3/8M	3021 011-316
A392.41005-10063075	3212 031-761 ²⁾	(1/2")	-	-	5631 060-01	3212 010-363	3021 010-050
A392.41005C12525100	5512 065-03	3021 011-516	5512 065-05	3021 011-516	5631 013-02	10-32 x 3/8	3021 011-532
A392.41005C12538100	5512 065-10	3021 011-380	5512 065-04	3021 011-380	5631 013-04	8-32 X 3/8M	3021 011-316
A392.41005-12563085	3212 031-761 ²⁾	(1/2")	-	-	5631 060-01	3212 010-363	3021 010-050

1) Accessories, must be ordered separately

2) Holder with flange clamping. For flange clamping, four screws, 3212 031-761, are used.

Dampened face mill holders

392.41006



	1	2	3 ¹⁾	4	5	6 ¹⁾
	Centre screw	Washer	Key (mm)	Driving key	Screw	Key (mm)
392.41005CD6316160	3212 020-411	5541 015-01	3021 011-060 (6.0)	5631 012-02	3212 020-257	3021 010-030 (3.0)
392.41005CD6322210	3212 020-464	5541 015-02	3021 011-080 (8.0)	5631 012-01	3212 020-258	3021 010-030 (3.0)
392.41005CD10022230	3212 020-464	5541 015-02	3021 011-080 (8.0)	5631 012-01	3212 020-258	3021 010-030 (3.0)
392.41005CD10027230	3212 020-514	5541 015-03	3021 011-100 (10.0)	5631 012-01	3212 020-258	3021 010-030 (3.0)
392.41006-xx 22 xxx	3212 020-464	5541 015-02	3021 010-080 (8.0)	5631 011-01	3213 010-258	174.1-864 (3.0)
392.41006-xx 27 xxx	3212 020-514	5541 015-03	3021 010-100 (10.0)	5631 010-01	3212 010-258	174.1-864 (3.0)
392.41006-xx 32 xxx	3212 020-564	5541 015-04	3021 010-120 (12.0)	5631 010-04	3212 010-308	3021 010-040 (4.0)
A392.41005CD6319210	5512 065-02	-	3021 011-316 (3/16)	5631 013-01	8-32x3/8M	(9/64)
A392.41005CD10025230	5512 065-03	-	3021 011-532 (5/32)	5631 013-02	10-32x3/8M	3021 011-532
A392.41006- xx 19 xxx	5512 065-02	-	3/16	5631 013-01	8-32 x 3/8M	9/64
A392.41006- xx 25 xxx	5512 065-08	-	5/16	5631 031-02	10-32 x 3/8	5/32
A392.41006- xx 38 xxx	5512 065-04	-	3/8	5631 031-04	1/4-20 x 3/4	3/16

¹⁾ Accessories, must be ordered separately

Arbor mounting screws with coolant hole

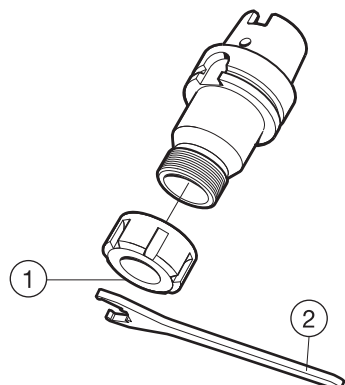
Arbor size	Screw		Key
Metric			
16	5512 073-03	(M8)	3021 010-060 (6.0)
22	5512 073-01	(M10)	3021 010-080 (8.0)
22 ¹⁾	5512 073-04 ¹⁾	(M10)	3021 010-080 (8.0)
27	5512 073-02	(M12)	3021 010-100 (10.0)
32	5512 073-05	(M16)	3021 010-140 (12.0)
Inch			
.750	5512 074-01	(3/8"-24 UNF)	3021 011-516
.750 ¹⁾	5512 074-03	(3/8"-24 UNF) ¹⁾	3021 011-516
1.000	5512 074-02	(1/2"-20 UNF)	3021 011-380
1.250	5512 074-04	(5/8"-18 UNF)	-
1.500	5512 074-05	(3/4"-16 UNF)	3021 011-580 (5/8")

¹⁾ Optimized: Low head/small head-diameter

For CoroMill® 365, CoroMill® Century and CoroMill® 210 a unique screw, with coolant hole, is used. This has to be ordered separately. See ordering pages for these cutters.

Collet holder

392.41014

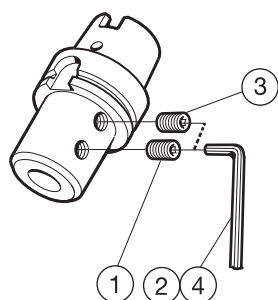


	1	2 ¹⁾
	Locking nut	Wrench
392.41014-xx 25xxx	5533 050-02	5680 096-02
392.41014-xx 32xxx	5533 050-03	5680 096-03
392.41014-xx 40xxx	5533 050-04	5680 096-04
392.41014-xx 50xxx	5533 050-05	5680 096-05

1) Accessories, must be ordered separately

Weldon shank holder

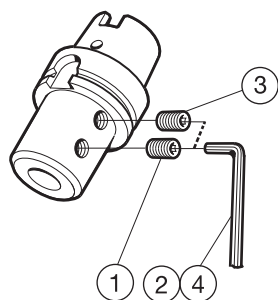
A392.41020



	1	2 ¹⁾	3	4 ¹⁾
	Screw	Key (Size)	Screw	Key (Size)
A392.41020-xx 09	5514 021-01	3021 011-316 (3/16)	—	—
A392.41020-xx 12	5514 021-02	3021 011-732 (7/32)	—	—
A392.41020-xx 15	5514 021-03	3021 011-140 (1/4)	—	—
A392.41020-xx 19	5514 021-04	3021 011-516 (5/16)	—	—
A392.41020-xx 22	5514 021-05	3021 011-516 (5/16)	—	—
A392.41020-xx 25	5514 021-06	3021 011-380 (3/8)	5514 021-05	3021 011-380 (3/8)
A392.41020-xx 31	5514 021-07	3021 011-380 (3/8)	5514 021-05	3021 011-380 (3/8)
A392.41020-xx 38	5514 021-08	3021 011-380 (3/8)	5514 021-05	3021 011-380 (3/8)
A392.41020-xx 50	5514 021-09	3021 011-916 (9/16)	5514 021-07	3021 011-916 (9/16)

1) Accessories, must be ordered separately

392.41020

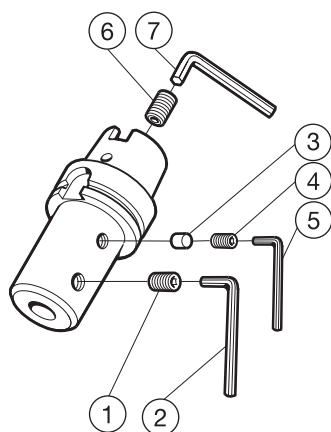


	1	2 ¹⁾	3	4 ¹⁾
	Screw	Key (mm)	Screw	Key (mm)
392.41020-xx 06	3214 050-357	174.1-864 (3.0)	—	—
392.41020-xx 08	3214 050-407	3021 010-040 (4.0)	—	—
392.41020-xx 10	3214 050-458	3021 010-050 (5.0)	—	—
392.41020-xx 12	3214 050-509	3021 010-060 (6.0)	—	—
392.41020-xx 14	3214 050-509	3021 010-060 (6.0)	—	—
392.41020-xx 16	3214 050-539	3021 010-060 (6.0)	—	—
392.41020-xx 18	3214 050-539	3021 010-060 (6.0)	—	—
392.41020-xx 20	3214 050-559	3021 010-080 (8.0)	—	—
392.41020-xx 25	3214 050-590	3021 010-100 (10.0)	3214 050-590	3021 010-100 (10.0)
392.41020-xx 32	3214 050-610	3021 010-100 (10.0)	3214 050-610	3021 010-100 (10.0)
392.41020-xx 40	3214 050-611	3021 010-100 (10.0)	3214 050-611	3021 010-100 (10.0)

1) Accessories, must be ordered separately

Whistle Notch holder

392.41021

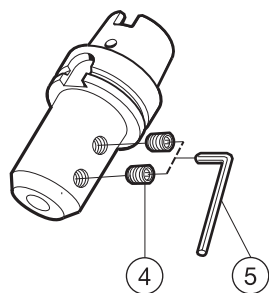


	1	2 ¹⁾	3	4	5 ¹⁾	6	7 ¹⁾
	Screw	Key (mm)	Plug	Screw	Key (mm)	Screw	Key (mm)
392.41021-xx 06xxx	3214 050-357	174.1-864 (3.0)	—	—	—	5512 066-08	174.1-864 (3.0)
392.41021-xx 08xxx	3214 050-407	3021 010-040 (4.0)	470-841	3214 010-355	174.1-864 (3.0)	5512 066-08	174.1-864 (3.0)
392.41021-xx 10xxx	3214 050-458	3021 010-050 (5.0)	470-841	3214 010-355	174.1-864 (3.0)	5512 066-03	3021 010-040 (4.0)
392.41021-xx 12xxx	3214 050-509	3021 010-060 (6.0)	470-841	3214 010-357	174.1-864 (3.0)	5512 066-04	3021 010-040 (4.0)
392.41021-xx 14xxx	3214 050-509	3021 010-060 (6.0)	470-841	3214 010-357	174.1-864 (3.0)	5512 066-04	3021 010-040 (4.0)
392.41021-xx 16xxx	3214 050-539	3021 010-060 (6.0)	470-841	3214 010-357	174.1-864 (3.0)	5512 066-04	3021 010-040 (4.0)
392.41021-xx 18xxx	3214 050-539	3021 010-060 (6.0)	470-841	3214 010-357	174.1-864 (3.0)	5512 066-04	3021 010-040 (4.0)
392.41021-xx 20xxx	3214 050-559	3021 010-080 (8.0)	470-841	3214 010-357	174.1-864 (3.0)	5512 066-05	3021 010-050 (5.0)
392.41021-xx 25xxx	3214 050-590	3021 010-100 (10.0)	470-841	3214 010-357	174.1-864 (3.0)	5512 066-06	3021 010-060 (6.0)
392.41021-xx 32xxx	3214 050-610	3021 010-100 (10.0)	470-841	3214 010-357	174.1-864 (3.0)	5512 066-06	3021 010-060 (6.0)

¹⁾ Accessories, must be ordered separately

Drill holder, ISO 9766

392.41027

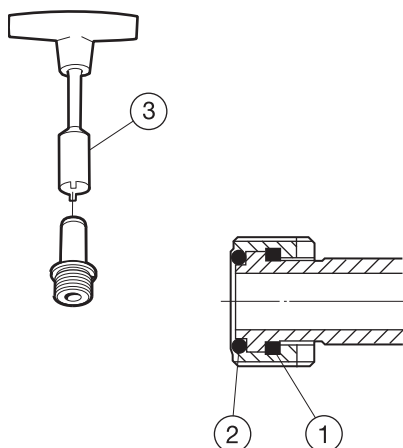


	4	5 ¹⁾
	Screw	Key (mm)
392.41027-16 xxx	5514 042-04	3021 010-040 (4.0)
392.41027-20 xxx	5514 042-04	3021 010-040 (4.0)
392.41027-25 xxx	416.1-838	3021 010-060 (6.0)
392.41027-32 xxx	416.1-838	3021 010-060 (6.0)
392.41027-40 xxx	5514 042-06	3021 010-080 (8.0)
392.41027-50 xxx	5514 042-06	3021 010-080 (8.0)

1) Accessories, must be ordered separately

Coolant tube

5692 022-



	1	2	3	
Coupling size	O-ring	O-ring	Key ¹⁾	Torque (Nm)
40-A/C	5641 001-108	5641 001-108	5680 094-02	10
50-A/C	5641 001-33	5641 001-33	5680 094-03	15
63-A/C	5641 001-37	5641 001-72	5680 094-04	20
100-A/C	5641 001-38	5641 001-38	5680 094-06	30
125-A/C	5641 001-92	5641 001-92	5680 094-07	30

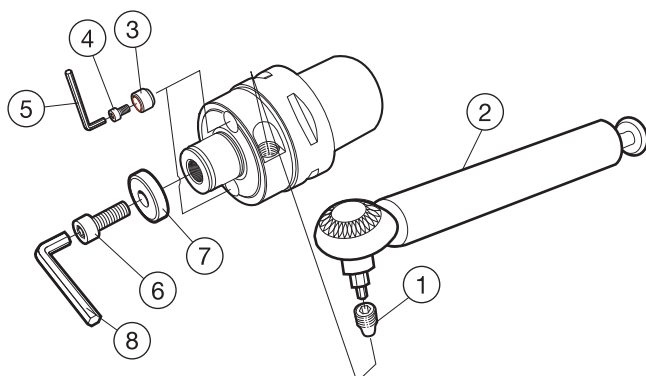
1) Accessories, must be ordered separately

Hydro-Grip®

Coromant Capto®

High precision adaptor for face mills and square shoulder face mills

Cx-391.05CG



Note: Tightening torque Nm = 6.0

Cx-391.05CG	Note: Tightening torque: Nm = 0.5																													
	1			2			3			4			5			6			7			8								
	Pressure screw			Torque wrench ¹⁾			Nm ³⁾			Driving key			Screw			Key (mm) ¹⁾			Centre screw ²⁾			Washer			Key (mm) ¹⁾					
	-22 xxx			3214 020-457			5680 099-01			6			5635 025-01			3212 010-257			3021 010-030 (3.0)			3212 020-464			5541 015-02			3021 010-080 (8.0)		
	-27 xxx			3214 020-457			5680 099-01			6			5635 025-02			3212 010-307			3021 010-040 (4.0)			3212 020-514			5541 015-03			3021 010-100 (10.0)		
	-32 xxx			3214 020-457			5680 099-01			6			5635 025-03			3212 010-357			3021 010-050 (5.0)			3212 020-564			5541 015-04			3021 010-120 (12.0)		
-40 xxx			3214 020-458			5680 099-01			6			5635 025-04			3212 020-409			3021 010-060 (6.0)			3212 020-614			5541 015-05			3021 010-140 (14.0)			

¹⁾ Accessories, not delivered with the tool, must be ordered separately.

²⁾ Screw for through coolant, must be ordered separately.

³⁾ Tightening torque Nm.

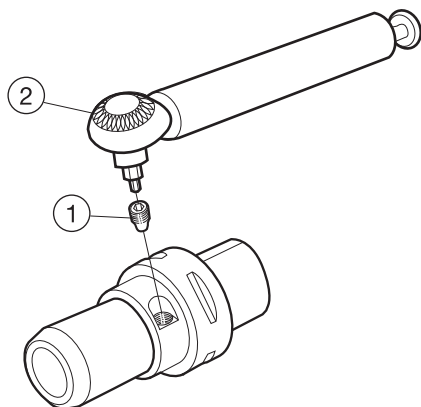
High precision chuck

Cx-391.CGA

Cx-391.CGB

Cx-391.CGC

Pencil type
Slender



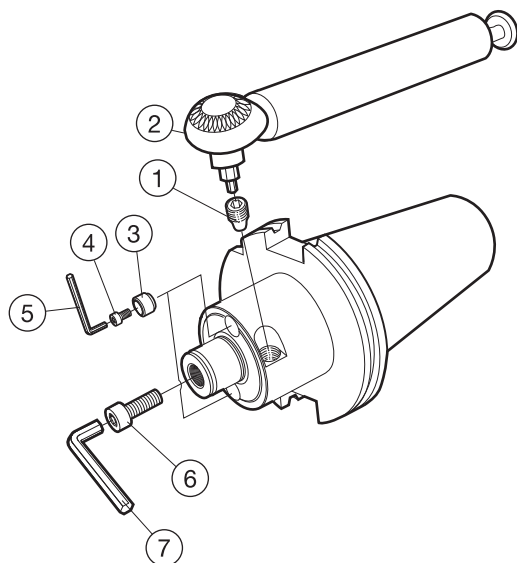
	1	2
	Pressure screw	Nm ²⁾ Torque wrench ¹⁾
C4-391.CGA-12 062A	3214 020-457	6 5680 099-01
C4-391.CGA-12 100	3214 020-457	6 5680 099-01
C4-391.CGA-20 075	3214 020-457	6 5680 099-01
C5-391.CGA-12 062	3214 020-457	6 5680 099-01
C5-391.CGA-20 074A	3214 020-457	6 5680 099-01
C5-391.CGA-20 125	3214 020-457	6 5680 099-01
C5-391.CGA-25 079	3214 020-458	6 5680 099-01
C6-391.CGA-12 064	3214 020-457	6 5680 099-01
C6-391.CGA-20 076	3214 020-457	6 5680 099-01
C6-391.CGA-20 150	3214 020-457	6 5680 099-01
C6-391.CGA-25 080	3214 020-458	6 5680 099-01
C6-391.CGA-32 084A	3214 020-497	6 5680 099-01
C8-391.CGA-20 079	3214 020-457	6 5680 099-01
C8-391.CGA-25 083	3214 020-458	6 5680 099-01
C8-391.CGA-32 087	3214 020-497	6 5680 099-01
Pencil type		
Cx-391.CGB-06 xxx	3214 020-457	6 5680 099-01
Cx-391.CGB-12 xxx	3214 020-457	6 5680 099-01
Cx-391.CGB-20 xxx	3214 020-458	6 5680 099-01
Slender type		
Cx-391.CGC-12 xxx	3214 020-457	6 5680 099-01
Cx-391.CGC-20 xxx	3214 020-497	6 5680 099-01
Cx-391.CGC-25 xxx	3214 020-497	6 5680 099-01

¹⁾ Accessories, not delivered with the tool, must be ordered separately.

²⁾ Tightening torque Nm.

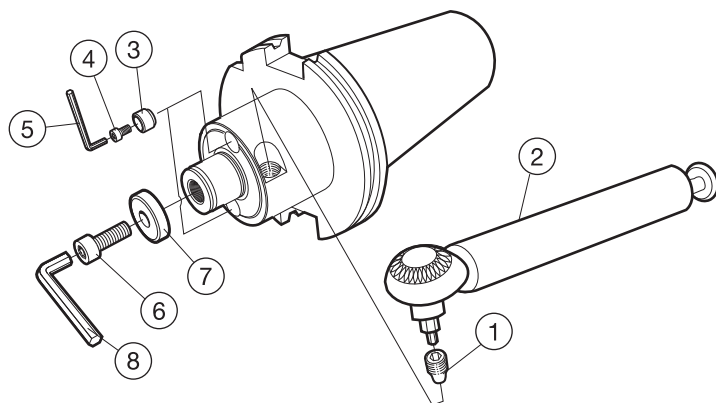
Hydro-Grip®

Hydro-Grip holder for face mills and square shoulder face mills

AA3B05
Inch pilot

Note: Tightening torque Nm = 6.0

AA3B05	1			3			6		7	
	Pressure screw	Torque wrench ¹⁾	Nm ²⁾	Driving key	Screw	Key (mm) ¹⁾	Centre screw	Key (inch) ¹⁾		
-xx 19 xxx	3214 020-457	5680 099-01	6	5635 025-07	3212 010-207	3021 010-025 (2.5)	5512 065-07	3021 011-140 (1/4")		
-xx 25 xxx	3214 020-457	5680 099-01	6	5635 025-06	3212 010-257	3021 010-030 (3.0)	5512 065-08	3021 011-516 (5/16")		
-xx 38 xxx	3214 020-458	5680 099-01	6	5635 025-05	3212 020-409	3021 010-060 (6.0)	5512 065-10	3021 011-380 (3/8")		

¹⁾ Accessories, not delivered with the tool, must be ordered separately.²⁾ Tightening torque Nm.**Coromant solid holder**
A1B05CG / A2B05CG
Metric pilot

A1B05CG A2B05CG	12			345			678		
	Pressure screw	Torque wrench ¹⁾	Nm ³⁾	Driving key	Screw	Key (mm) ¹⁾	Centre screw ²⁾	Washer	Key (mm) ¹⁾
-22 xxx	3214 020-457	5680 099-01	6	5635 025-01	3212 010-257	3021 010-030 (3.0)	3212 020-464	5541 015-02	3021 010-080 (8.0)
-27 xxx	3214 020-457	5680 099-01	6	5635 025-02	3212 010-307	3021 010-040 (4.0)	3212 020-514	5541 015-03	3021 010-100 (10.0)
-32 xxx	3214 020-457	5680 099-01	6	5635 025-03	3212 010-357	3021 010-050 (5.0)	3212 020-564	5541 015-04	3021 010-120 (12.0)
-40 xxx	3214 020-458	5680 099-01	6	5635 025-04	3212 020-409	3021 010-060 (6.0)	3212 020-614	5541 015-05	3021 010-140 (14.0)

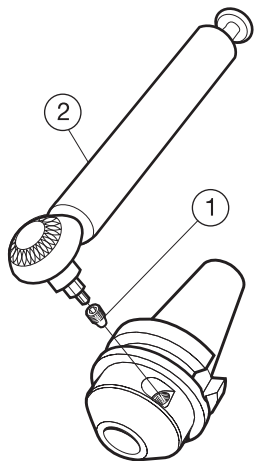
¹⁾ Accessories, not delivered with the tool, must be ordered separately.²⁾ Screw for through coolant, must be ordered separately.

Hydro-Grip®

High precision adaptor for face mills and square shoulder face mills

Solid holder

392.272CG/55CG/45CG
393.CGA/392.CGB



	1	2	
	Pressure screw	Torque wrench ¹⁾	Nm ²⁾
392.272CG-40 12 056	3214 020-457	5680 099-01	6
392.272CG-40 20 060A	3214 020-457	5680 099-01	6
392.272CG-40 20 125	3214 020-457	5680 099-01	6
392.272CG-40 25 064	3214 020-458	5680 099-01	6
392.272CG-50 20 060	3214 020-457	5680 099-01	6
392.272CG-50 25 064	3214 020-458	5680 099-01	6
392.272CG-50 32 068A	3214 020-497	5680 099-01	6
392.272CG-50 25 150	3214 020-458	5680 099-01	6
392.55CG-40 12 052	3214 020-457	5680 099-01	6
392.55CG-40 20 056A	3214 020-457	5680 099-01	6
392.55CG-40 20 125	3214 020-457	5680 099-01	6
392.55CG-40 25 060	3214 020-458	5680 099-01	6
392.55CG-50 20 067	3214 020-457	5680 099-01	6
392.55CG-50 25 071	3214 020-458	5680 099-01	6
392.55CG-50 32 075A	3214 020-497	5680 099-01	6
392.55CG-50 25 150	3214 020-458	5680 099-01	6
392.45CG-40 12 056	3214 020-457	5680 099-01	6
392.45CG-40 20 060	3214 020-457	5680 099-01	6
392.45CG-40 25 064	3214 020-458	5680 099-01	6
392.45CG-40 20 125	3214 020-457	5680 099-01	6
392.45CG-50 20 060	3214 020-457	5680 100-09 (5.0)	6
392.45CG-50 25 064	3214 020-458	5680 099-01	6
392.45CG-50 32 068	3214 020-497	5680 099-01	6

Pencil type, cylindrical shank

393.CGA-20 12 150	3214 020-457	5680 099-01	6
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Pencil type, taper shank

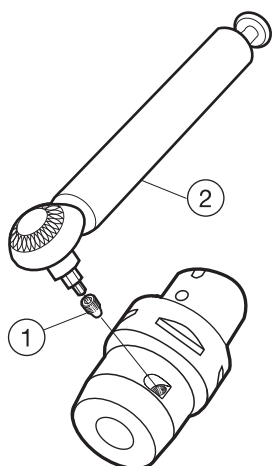
392.xxxCGB-xx-06	3214 020-457	5680 099-01	6
392.xxxCGB-xx-12	3214 020-457	5680 099-01	6
392.xxxCGB-xx-20	3214 020-458	5680 099-01	6

¹⁾ Accessories, not delivered with the tool, must be ordered separately.

²⁾ Tightening torque Nm.

Hydro-Grip Heavy Duty

Cx-391.CGD
392.45CGD
392.272CGD
392.55CGD
392.410CGD



	1	2	
Ordering code	Pressure screw	Nm ²⁾	ft-lbs ²⁾
C5-391.CGD-20079	3214 020-460	10	7.38
C6-391.CGD-20073	3214 020-460	10	7.38
C6-391.CGD-25080	3214 020-461	10	7.38
C6-391.CGD-32086	3214 020-461	10	7.38
C6-391.CGD-20079	3214 020-460	10	7.38
C6-391.CGD-25083	3214 020-461	10	7.38
C6-391.CGD-32087	3214 020-461	10	7.38
C6-391.CGD-20085	3214 020-460	10	7.38
C6-391.CGD-25089	3214 020-461	10	7.38
C6-391.CGD-32093	3214 020-461	10	7.38
392.272CGD-40 20 090	3214 020-460	10	7.38
392.272CGD-50 20 068	3214 020-460	10	7.38
392.272CGD-50 25 079	3214 020-461	10	7.38
392.272CGD-50 32 083	3214 020-461	10	7.38
392.45CGD-40 20 090	3214 020-460	10	7.38
392.45CGD-50 20 068	3214 020-460	10	7.38
392.45CGD-50 25 092	3214 020-461	10	7.38
392.45CGD-50 32 097	3214 020-461	10	7.38
392.55CGD-40 20 087	3214 020-460	10	7.38
392.55CGD-50 20 087	3214 020-460	10	7.38
392.55CGD-50 25 091	3214 020-461	10	7.38
392.55CGD-50 32 095	3214 020-461	10	7.38
392.410CGD-63 20 096	3214 020-460	10	7.38
392.410CGD-100 20 091	3214 020-460	10	7.38
392.410CGD-100 25 095	3214 020-461	10	7.38
392.410CGD-100 32 099	3214 020-461	10	7.38

¹⁾ Accessories, not delivered with the tool, must be ordered separately.

²⁾ Tightening torque Nm, ft-lbs.

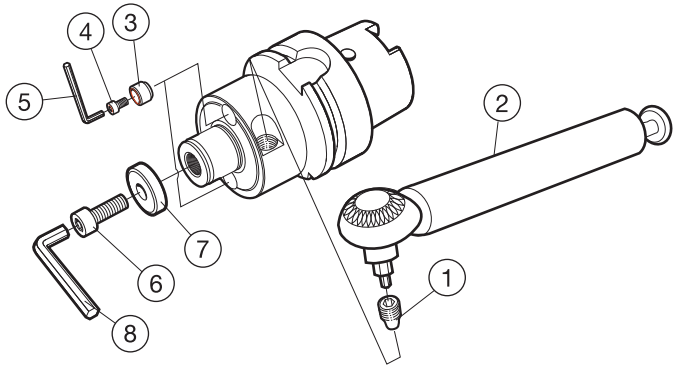
E

Hydro-Grip®

High precision holder for face mills and square shoulder face mills

HSK

41005CG



F

41005CG	1			2			3			4			5			6			7			8		
	Pressure screw		Torque wrench ¹⁾	Nm ³⁾	Driving key	Screw	Key (mm) ¹⁾	Centre screw ²⁾	Washer	Key (mm) ¹⁾														
-22 xxx	3214 020-457	5680 099-01	6	5635 025-01	3212 010-257	3021 010-030 (3.0)	3212 020-464	5541 015-02	3021 010-080 (8.0)															
-27 xxx	3214 020-457	5680 099-01	6	5635 025-02	3212 010-307	3021 010-040 (4.0)	3212 020-514	5541 015-03	3021 010-100 (10.0)															
-32 xxx	3214 020-457	5680 099-01	6	5635 025-03	3212 010-357	3021 010-050 (5.0)	3212 020-564	5541 015-04	3021 010-120 (12.0)															
-40 xxx	3214 020-458	5680 099-01	6	5635 025-04	3212 020-409	3021 010-060 (6.0)	3212 020-614	5541 015-05	3021 010-140 (14.0)															

- ¹⁾ Accessories, not delivered with the tool, must be ordered separately.
²⁾ Screw for through coolant, must be ordered separately.
³⁾ Tightening torque Nm.

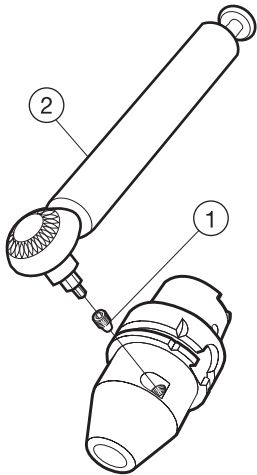
G

High precision chuck

HSK

392.410CGA

392.410CGB



	1			2		
	Pressure screw			Torque wrench ¹⁾		
392.410CGA-63 12 076B	3214 020-457	5680 099-01	6			
392.410CGA-63 20 088B	3214 020-457	5680 099-01	6			
392.410CGA-63 20 150	3214 020-457	5680 099-01	6			
392.410CGA-63 25 092	3214 020-458	5680 099-01	6			
392.410CGA-63 32 096A	3214 020-497	5680 099-01	6			
392.410CGA-100 12 079B	3214 020-457	5680 099-01	6			
392.410CGA-100 20 091B	3214 020-457	5680 099-01	6			
392.410CGA-100 25 095	3214 020-458	5680 099-01	6			
392.410CGA-100 32 099B	3214 020-497	5680 099-01	6			
Pencil type						
392.410CGB-63 12 xxx	3214 020-457	5680 099-01	6			
392.410CGB-100 12 xxx	3214 020-457	5680 099-01	6			

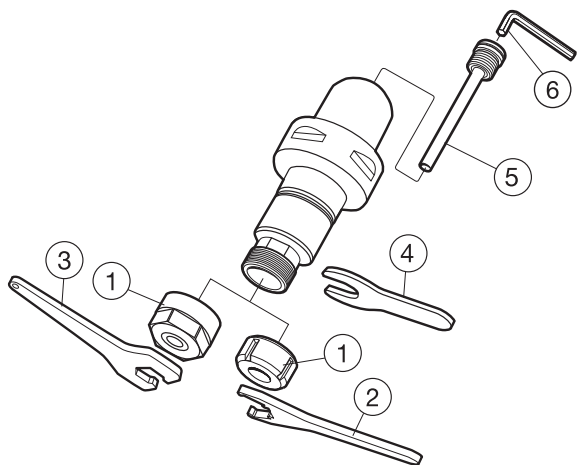
- ¹⁾ Accessories, not delivered with the tool, must be ordered separately.
²⁾ Tightening torque Nm.

J

SynchroFlex® ER tapping chuck

Coromant Capto®

391.62/391.63



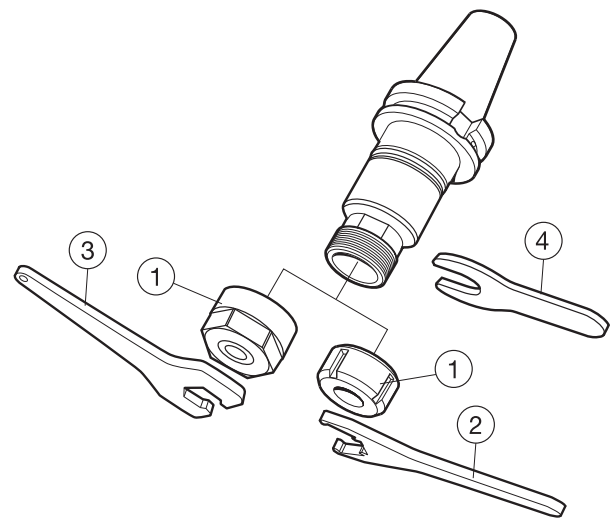
	1	2 ¹⁾	3 ¹⁾	4 ¹⁾	5	6 ¹⁾
Ordering code	Nut	Wrench	Wrench	Wrench	Coolant tube	Key (mm)
Cx-391.62-20 xxx	5533 050-08	-	5680 091-02	5680 092-04	-	-
Cx-391.62-25 xxx	5533 050-02	5680 096-02	-	5680 092-05	-	-
Cx-391.62-40 xxx	5533 050-04	5680 096-04	-	5680 092-06	-	-
Cx-391.63-11 xxx	5533 050-07	-	5680 051-03	5680 052-03	-	-
Cx-391.63-20 xxx	5533 051-02	-	5680 091-02	5680 092-04	5692 031-01	3021 010-030 (3.0)
C3-391.63-20 105	5533 051-02	-	5680 091-02	5680 092-04	5692 01-04	3021 010-030 (3.0)
Cx-391.63-25 xxx	5533 051-03	5680 096-02	-	5680 092-05	5692 031-02	3021 010-030 (3.0)
Cx-391.63-40 xxx	5533 051-05	5680 096-04	-	5680 092-06	5692 031-03	3021 010-030 (3.0)

¹⁾ Accessories, must be ordered separately

SynchroFlex® ER tapping chuck

MAS-BT 403

392.5563

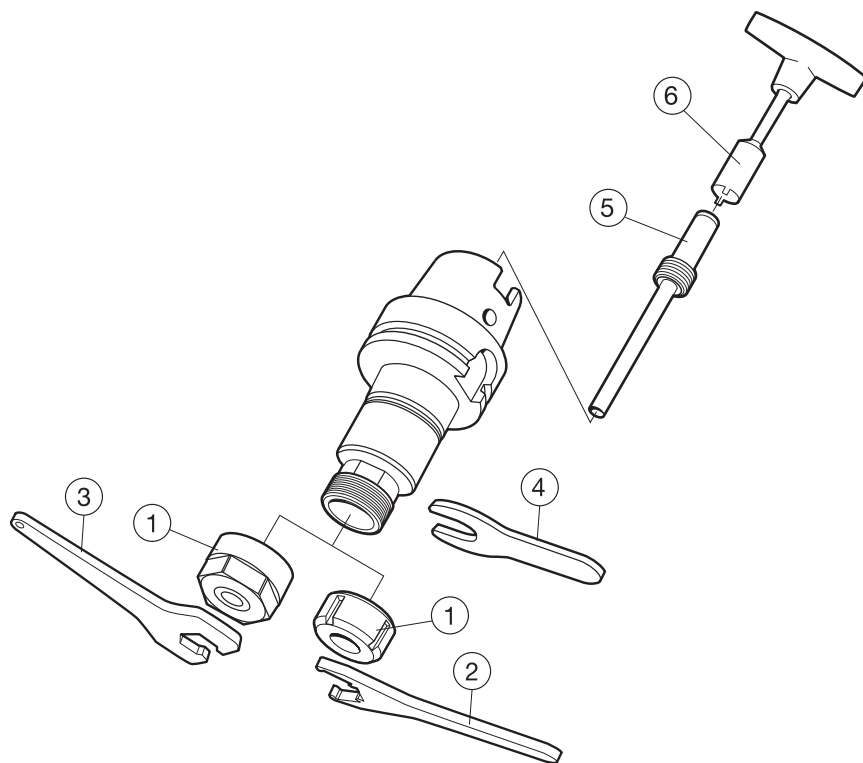


	1	2 ¹⁾	3 ¹⁾	4 ¹⁾	5	6
Ordering code	Nut	Wrench	Wrench	Wrench	Coolant tube	Key
392.5563-30 11 082	5533 051-07	-	5680 091-02	-	-	-
392.5563-30 20 105	5533 051-02	-	5680 091-03	5680 092-05	5692 031-01	3021 010-030 (3.0)
392.5563-30 25 125	5533 051-03	5680 096-02	-	5680 092-06	5692 031-02	3021 010-030 (3.0)

1) Accessories, must be ordered separately

SynchroFlex® ER tapping chuck

HSK



	1	2 ¹⁾	3 ¹⁾	4 ¹⁾	5	6
Ordering code	Nut	Wrench	Wrench	Wrench	Coolant tube	Key
392.41062-63 20 xxx	5533 050-08	-	5680 091-02	5680 092-04	-	-
392.41062-63 25 xxx	5533 050-02	5680 096-02	-	5680 092-05	-	-
392.41062-63 40 xxx	5533 050-04	5680 096-04	-	5680 092-06	-	-
392.41062-100 20 xxx	5533 050-08	-	5680 091-02	5680 092-04	-	-
392.41062-100 25 xxx	5533 050-02	5680 096-02	-	5680 092-05	-	-
392.41062-100 40 xxx	5533 050-04	5680 096-04	-	5680 092-06	-	-
392.41063-63 20 xxx	5533 051-02	-	5680 091-02	5680 092-04	5692 032-01	5680 094-04
392.41063-63 25 xxx	5533 051-03	5680 096-02	-	5680 092-05	5692 032-02	5680 094-04
392.41063-63 40 xxx	5533 051-05	5680 096-04	-	5680 092-06	5692 032-05	5680 094-04
392.41063-100 20 xxx	5533 051-02	-	5680 091-02	5680 092-04	5692 032-03	5680 094-06
392.41063-100 25 xxx	5533 051-03	5680 096-02	-	5680 092-05	5692 032-04	5680 094-06
392.41063-100 40 xxx	5533 051-05	5680 096-04	-	5680 092-06	5692 032-06	5680 094-06

1) Accessories, must be ordered separately

D

E

F

G

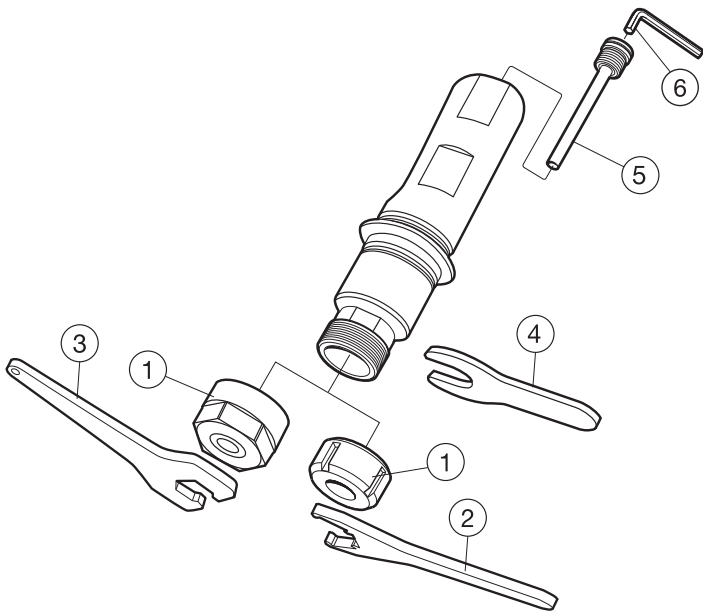
J

SynchroFlex® ER tapping chuck

Weldon/Whistle Notch combi shank

Collet type

393.2062
393.2063



Weldon shank

393.2062/393.2063	1	2 ¹⁾	3 ¹⁾	4 ¹⁾	5	6
	Nut	Wrench	Wrench	Wrench	Coolant tube	Key
393.2062 -xx 11	5533 050-07	-	5680 091-03	5680 092-03	-	-
393.2062 -xx 20	5533 050-08	-	5680 091-02	5680 092-04	-	-
393.2062 -xx 25	5533 050-02	5680 096-02	-	5680 092-05	-	-
393.2063 -xx 20	5533 051-02	-	5680 091-02	5680 092-04	5692 031-01	3021 010- 030
393.2063 -xx 25	5533 051-03	5680 096-02	-	5680 092-05	5692 031-02	3021 010- 030
393.2063 -xx 40	5533 051-05	5680 096-04	-	5680 092-06	5692 031-03	3021 010- 030

¹⁾ Accessories, must be ordered separately

Quick change tapping chuck

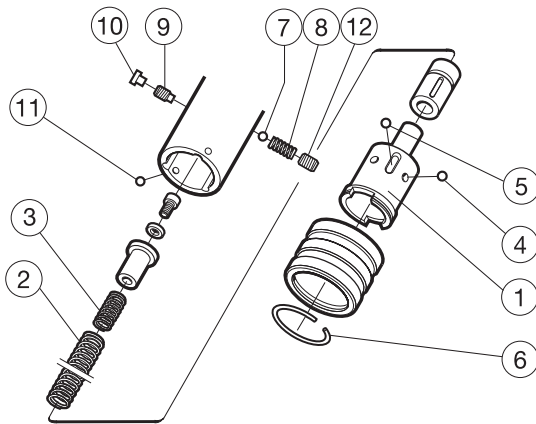
Set of spare parts

Coromant Capto Cx-391.60/61

HSK 392.41060

Weldon 393.2060

Morse taper 392.17660



1. Barrel
2. Compression spring
3. Compression spring
4. Ball
5. Ball
6. Circlip
7. Ball
8. Compression spring
9. Stop screw
10. Plastic plug
11. Clamp ring (size 1)
12. Screw

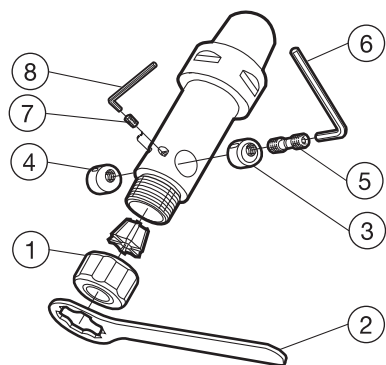
	1	2-12
Adaptor size	Barrel	Set of spare parts
Cx-391.60/61xxx-00 393.4160-xx00 A393.2060-xx00	5638 055-00	5471 020-00
Cx-391.60/61xxxx-01 392.41060-xx01 393.2060-xx01 A393.2060-xx01	5638 055-01	5471 020-01
Cx-391.60/61xxxx-02 392.41060-xx02 393.2060-xx02 A393.2060-xx02	5638 055-02	5471 020-02
Cx-391.60/61xxxx-03 392.41060-xx03 393.2060-xx03 A393.2060-xx03	5638 055-03	5471 020-03
Cx-391.60/61xxx-04 393.4160-xx04 A393.2060-xx04	5638 055-04	5471 020-04

Floating rubber collet chuck

Coromant Capto®

Cx-391.60A

Cx-391.60B



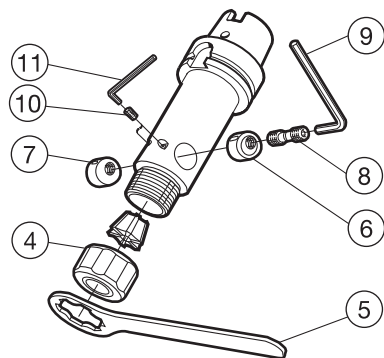
	1	2 ¹⁾	3	4
Cx-391.60A- Cx-391.60B-	Locking nut	Wrench	Jaw right	Jaw left
01 xxx	391.60A-OZ 3158	5680 090-01	5412 093-01	5412 093-02
02 xxx	391.60A-OZ 3159	5680 090-02	5412 093-01	5412 093-02
03 xxx	391.60A-OZ N460	5680 092-01	5412 093-03	5412 093-04
	5	6 ¹⁾	7	8 ¹⁾
Cx-391.60A- Cx-391.60B-	Adjusting screw	Key for jaws (mm)	Socket screw	Key (mm)
01 xxx	5516 050-01	3021 010-040 (4.0)	3214 020-255	174.1-870 (2.0)
02 xxx	5516 050-01	3021 010-040 (4.0)	3214 020-255	174.1-870 (2.0)
03 xxx	5516 050-02	3021 010-050 (5.0)	3214 020-305	174.1-863 (2.5)

1) Accessories, must be ordered separately

HSK form A/C

392.41060A

392.41060B



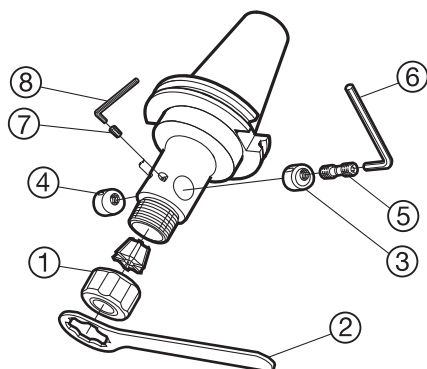
	4	5 ¹⁾	6	7	8	9 ¹⁾	10	11 ¹⁾
392.41060A- 392.41060B-	Locking nut	Wrench	Jaw right	Jaw left	Adjusting screw	Key for jaws (mm)	Socket screw	Key (mm)
xx 01 xxx	391.60A-OZ 3158	5680 090-01	5412 093-01	5412 093-02	5516 050-01	3021 010-040 (4.0)	3214 020-255	174.1-870 (2.0)
xx 02 xxx	391.60A-OZ 3159	5680 090-02	5412 093-01	5412 093-02	5516 050-01	3021 010-040 (4.0)	3214 020-255	174.1-870 (2.0)
xx 03 xxx	391.60A-OZ N460	5680 092-01	5412 093-03	5412 093-04	5516 050-02	3021 010-050 (5.0)	3214 020-305	174.1-863 (2.5)

1) Accessories, must be ordered separately

Floating rubber collet chuck

Cat V-Flange

A392.4560B



A392.4560B	1	2 ¹⁾	3	4	5	6 ¹⁾	7	8 ¹⁾
	Collet nut	Wrench	Gripping jaw right	Gripping jaw left	Adjusting screw	Key for jaws (mm)	Socket screw	Key (mm)
A392.4560B-xx 01 xxx	391.60A-OZ 3158	5680 090-01	5412 093-01	5412 093-02	5516 050-01	3021 010-040 (4.0)	3214 020-255	174.1-870 (2.0)
A392.4560B-xx 02 xxx	391.60A-OZ 3159	5680 090-02	5412 093-01	5412 093-02	5516 050-01	3021 010-040 (4.0)	3214 020-255	174.1-870 (2.0)
A392.4560B-xx 03 xxx	391.60A-OZ N460	5680 092-01	5412 093-03	5412 093-04	5516 050-02	3021 010-040 (4.0)	3214 020-305	174.1-863 (2.5)

1) Accessories, must be ordered separately