

Hydro-Grip®

Assortment of high precision chucks

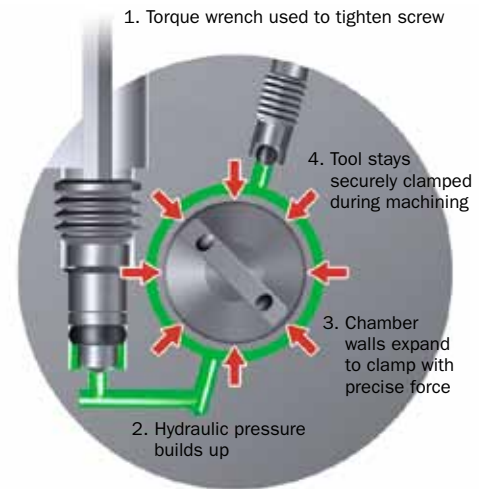


Hydro-Grip®* – up to three times the force of conventional chucks

Hydro-Grip high precision tool holders are your guarantee of secure clamping for milling, drilling and reaming tools. Their unique strength provides precision and rigid-tool stability to improve machining performance for the largest number of applications, with an even greater clamping range achieved through the use of collets.

Ease of setup and tool change

- Minimum tool run-out ensures good surface and extends tool life
- Each chuck is individually balanced, tested and approved
- High speed capability
- Dampens noise and vibration
- Length pre-setting possible to save time



Hydro-Grip Short

- Drilling, reaming, finishing to semi-rough milling
- Short overhangs
- Stable operations



Hydro-Grip Slender

- Drilling, reaming, finishing to semi-finish milling
- Slender design for improved accessibility
- Between short and pencil-type in size



Hydro-Grip Heavy Duty (HD)

- Drilling, reaming, finishing to heavy rough milling
- Ideal for heavy machining
- Extremely high clamping force
- High bending stiffness combined with dampening properties



Hydro-Grip face mill holder

- Face milling operations
- Precise concentric location – eliminates run out
- Best choice for HSM, with high stability
- Perfect partner for CoroMill® Century in finishing
- Improves tool life and surface in demanding shoulder and face milling
- Through coolant available



Hydro-Grip Pencil

- Drilling, reaming, finish milling
- Ideal for machining deep cavities and complex components
- Good center-point geometry for drilling – improves hole quality
- Wide assortment of dimensions and lengths optimizes tool setup



Hydro-Grip cylindrical shank

Improves tool accessibility as an extension for all chuck types.



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

Hydro-Grip® extended assortment

This catalog shows stocked and non-stocked Hydro-Grip products. The products that are non-stocked all begin with S- in the ordering code and are shown with a dark grey background in the tables.

Hydro-Grip clamping

For optimum performance and runout, we recommend clamping of cylindrical shank tools with tolerance h6. Weldon and Whistle Notch shanks can also be clamped.

Hydro-Grip can be used with or without collets.

Weights

All weight is in kg. 1 kg = 2.205 lbs.

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Code key

Coromant Capto® coupling

S	-	C10	-	391.CG	D	-	20	085
8		1		2	3		4	5

1	Coromant Capto coupling size
2	Main code
3	A = short B = pencil C = slender D = HD
4	Bore Diameter
5	Programming length
8	S = non-stocked

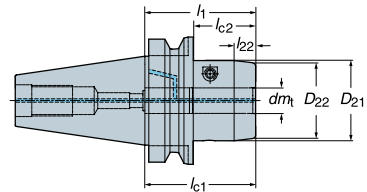
Other machine interfaces

S	-	392.	272	CG	D	-	50	20	068
8		1	2	3	4		5	6	7

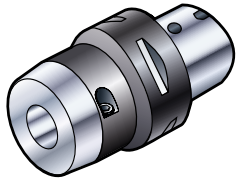
1	Main code
2	Machine design 45 CAT V 55 MAS-BT 272 ISO 7388.1 410 HSK
3	Main code
4	Hydro-Grip version A = short B = pencil C = slender D = HD
5	Taper size
6	Bore diameter
7	Programming length
8	S = non-stocked

Hydro-Grip® HD

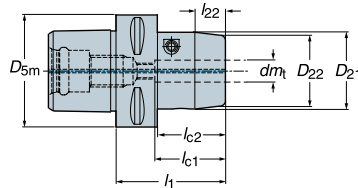
High precision chuck adapter



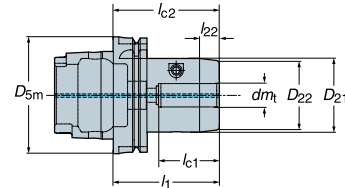
Cat V, ISO 7388.1, MAS BT403



Coromant Capto®



Coromant Capto®



HSK form A/C

Coromant Capto® 391.CGD

l_1 = programming length

Coupling size	Ordering code	Coolant ¹⁾	Dimensions, mm/inch								KG	Collet size
			D_{5m}	dm_1	D_{21}	D_{22}	l_1	l_{22}	l_{c1}	l_{c2}		
C6	C6-391.CGD-20 073	1	63	20	63	59	73	17	52		1.8	20
			2.480	.787	2.480	2.323	2.876	.669	2.047			
	C6-391.CGD-25 080	1	63	25	74	70	80	17	56		2.4	25
			2.480	.984	2.913	2.756	3.150	.669	2.205			
C6	C6-391.CGD-32 086	1	63	32	80	76	86	17	60		2.8	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	20
			3.150	.787	2.480	2.323	3.110	.669	2.047	1.929		
C8	C8-391.CGD-25 083	1	80	25	74	70	83	17	56	53	3.3	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	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	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	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	32
			3.937	1.260	3.150	2.992	3.661	.669	2.362	2.246		

Cat V, ISO 7388.1, MAS BT403

Machine design	Taper	Ordering code	Coolant ¹⁾	Dimensions, mm/inch							KG	Collet size		
				dm_1	D_{21}	D_{22}	l_1	l_{22}	l_{c1}	l_{c2}				
Cat V	50	392.45CGD-50 20 068	7	20	63	59	68	17	68		7.7	20		
				.787	2.480	2.323	2.677	.669	2.677					
		392.45CGD-50 25 092	7	25	74	70	92	17	92		10.1	25		
				.984	2.913	2.756	3.622	.699	3.622					
Cat V	50	392.45CGD-50 32 097	7	32	80	76	97	17	97		10.8	32		
				1.260	3.150	2.992	3.819	.699	3.819					
		ISO 7388.1	50	392.272CGD-50 20 068	7	20	63	59	68	17	68	49	7.9	20
				392.272CGD-50 25 079	7	25	74	70	79	17	79	60	9.3	25
				392.272CGD-50 32 083	7	32	80	76	83	17	83	64	10.1	32
MAS BT403	40	392.55CGD-40 20 087	7	20	63	59	79	17	79		4.4	20		
				392.55CGD-50 20 087	7	20	63	59	87	17	87	49	10.1	20
				392.55CGD-50 25 091	7	25	74	70	91	17	91	53	11.0	25
				392.55CGD-50 32 095	7	32	80	76	95	17	95	57	11.7	32

HSK form A/C 392.410CGD

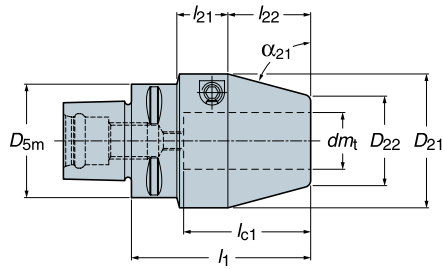
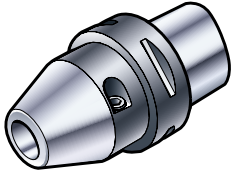
HSK size	Ordering code	Coolant ¹⁾	Dimensions, mm/inch								KG	Collet size
			D_{5m}	dm_1	D_{21}	D_{22}	l_1	l_{22}	l_{c1}	l_{c2}		
100	392.410CGD-100 20 091	1	100	20	63	59	91	17	52	62	3.3	20
			3.937	.787	2.480	2.323	3.583	.669	2.047	2.441		
	392.410CGD-100 25 095	1	100	25	74	70	95	17	56	66	3.9	25
			3.937	.984	2.913	2.756	3.740	.669	2.205	2.598		
100	392.410CGD-100 32 099	1	100	32	80	76	99	17	60	70	4.2	32
			3.937	1.260	3.150	2.992	3.898	.669	2.362	2.756		

Hydro-Grip®


High precision chuck adapter

Short version

Coromant Capto®
391.CGA





l_1 = programming length

Coupling size	Ordering code	Coolant ¹⁾	Dimensions, mm/inch										
			D_{5m}	dm_t	D_{21}	D_{22}	l_1	l_{21}	l_{22}	l_{c1}	α_{21}		
C4	C4-391.CGA-12 062A	1	40	12	43.5	19.8	62	21	20.5	40	60	0.6	
			1.575	.472	1.713	.780	2.441	.827	.807	1.575	2.362		
	C4-391.CGA-12 100	1	40	12	43.5	19.8	100	21	20.5	40	60	1.0	
			1.575	.472	1.713	.780	3.937	.827	.807	1.575	2.362		
	C4-391.CGA-20 075	1	40	20	52	28.3	75	20.9	32.5	52	70	0.9	
			1.575	.787	2.047	1.114	2.953	.823	1.280	2.047	2.756		
	S-C4-391.CGA-16 072	1	40	16	48	25.8	72		30.5	50	70	0.7	
			1.575	.630	1.889	1.016	2.835		1.201	1.969	2.756		
	S-C4-391.CGA-16 125	1	40	16	48	25.8	125		30.5	50	70	1.5	
			1.575	.630	1.889	1.016	4.921		1.201	1.969	2.756		
	S-C4-391.CGA-20 125	1	40	20	52	28.3	125		32.5	52	70	1.6	
			1.575	.787	2.047	1.114	4.921		1.280	2.047	2.756		
C5	C5-391.CGA-12 062	1	50	12	43.5	19.8	62	21.5	20.5	40	60	0.8	
			1.969	.472	1.713	.780	2.441	.846	.807	1.575	2.362		
	C5-391.CGA-20 074A	1	50	20	52	28.3	74	21.2	32.5	52	70	1.0	
			1.969	.787	2.047	1.114	2.913	.835	1.280	2.047	2.756		
	C5-391.CGA-20 125	1	50	20	52	28.3	125	21.2	32.5	52	70	1.8	
			1.969	.787	2.047	1.114	4.921	.835	1.280	2.047	2.756		
	C5-391.CGA-25 079	1	50	25	59	39.4	79	21.3	36.5	56	75	1.3	
			1.969	.984	2.323	1.551	3.110	.839	1.437	2.205	2.953		
	S-C5-391.CGA-12 100	1	50	12	43.5	19.8	100	59.5	20.5	40	60	1.2	
			1.969	.472	1.713	.780	3.937	2.343	.807	1.575	2.362		
	S-C5-391.CGA-16 072	1	50	16	48	25.8	72		30.5	50	70	0.9	
			1.969	.630	1.889	1.016	2.835		1.201	1.969	2.756		
	S-C5-391.CGA-16 125	1	50	16	48	25.8	125	74.5	30.5	50	70	1.6	
			1.969	.630	1.889	1.016	4.921	2.933	1.201	1.969	2.756		

Continues...

¹⁾ 0= No coolant, 1= Coolant through center, 6= Coolant through flange, 7= Coolant through center and through flange


 Individually balanced

 Non stocked items


Hydro-Grip®


High precision chuck adapter

Short version

Coupling size	Ordering code	Coolant ¹⁾	Dimensions, mm/inch									
			D_{5m}	dm_t	D_{21}	D_{22}	l_1	l_{21}	l_{22}	l_{c1}	α_{21}	
C6	C6-391.CGA-12 064	1	63	12	43.5	19.8	64	21.5	20.5	40	60	1.2
			2.480	.472	1.713	.780	2.520	.846	.807	1.575	2.362	
C6-391.CGA-20 076	1	1	63	20	52	28.3	76	21.5	32.5	52	70	1.3
			2.480	.787	2.047	1.114	2.992	.846	1.280	2.047	2.756	
C6-391.CGA-20 150	1	1	63	20	52	28.3	150	95.5	32.5	52	70	2.6
			2.480	.787	2.047	1.114	5.906	3.760	1.280	2.047	2.756	
C6-391.CGA-25 080	1	1	63	25	59	39.4	80	21.5	36.5	56	75	1.6
			2.480	.984	2.323	1.551	3.150	.846	1.437	2.205	2.953	
C6-391.CGA-32 084A	1	1	63	32	69.5	47.8	84	20.6	40.5	60	75	2.0
			2.480	1.260	2.736	1.882	3.307	.811	1.594	2.362	2.953	
S-C6-391.CGA-12 100	1	1	63	12	43.5	19.8	100	57.5	20.5	40	60	1.5
			2.480	.472	1.713	.780	3.937	2.264	.807	1.575	2.362	
S-C6-391.CGA-16 074	1	1	63	16	48	25.8	74	21.5	30.5	50	70	1.2
			2.480	.630	1.889	1.016	2.913	.846	1.201	1.969	2.756	
S-C6-391.CGA-16 125	1	1	63	16	48	25.8	125	72.5	30.5	50	70	1.9
			2.480	.630	1.889	1.016	4.921	2.854	1.201	1.969	2.756	
S-C6-391.CGA-25 150	1	1	63	25	59	39.4	150	91.5	36.5	56	75	3
			2.480	.984	2.323	1.551	5.906	3.602	1.437	2.205	2.953	
C8	C8-391.CGA-20 079	1	80	20	52	28.3	79		32.5	52	70	2.3
			3.150	.787	2.047	1.114	3.110		1.280	2.047	2.756	
C8-391.CGA-25 083	1	1	80	25	59	39.4	83		36.5	56	75	2.5
			3.150	.984	2.323	1.551	3.268		1.437	2.205	2.953	
C8-391.CGA-32 087	1	1	80	32	69.5	47.8	87		40.5	60	75	2.8
			3.150	1.260	2.736	1.882	3.425		1.594	2.362	2.953	
S-C8-391.CGA-12 067	1	1	80	12	43.5	19.8	67	16.5	20.5	40	60	2.1
			3.150	.472	1.713	.780	2.638	.650	.807	1.575	2.362	
S-C8-391.CGA-12 100	1	1	80	12	43.5	19.8	100	49.5	20.5	40	60	2.4
			3.150	.472	1.713	.780	3.937	1.949	.807	1.575	2.362	
S-C8-391.CGA-16 077	1	1	80	16	48	25.8	77	16.5	30.5	50	70	2.2
			3.150	.630	1.889	1.016	3.031	.650	1.201	1.969	2.756	
S-C8-391.CGA-16 125	1	1	80	16	48	25.8	125	64.5	30.5	50	70	2.9
			3.150	.630	1.889	1.016	4.921	2.539	1.201	1.969	2.756	
S-C8-391.CGA-20 150	1	1	80	20	52	28.3	150	87.5	32.5	52	70	3.4
			3.150	.787	2.047	1.114	5.906	3.445	1.280	2.047	2.756	
S-C8-391.CGA-25 150	1	1	80	25	59	39.4	150	83.5	36.5	56	75	3.9
			3.150	.984	2.323	1.551	5.906	3.287	1.437	2.205	2.953	

¹⁾ 0= No coolant, 1= Coolant through center, 6= Coolant through flange, 7= Coolant through center and through flange

 Individually balanced

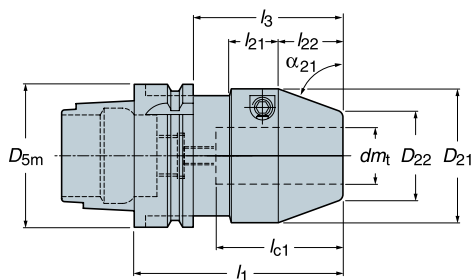
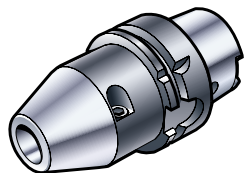
 Non stocked items

Hydro-Grip®


High precision chuck adapter

Short version

HSK form A/C
392.410CGA



l_1 = programming length

HSK size	Ordering code	Coolant ¹⁾	Dimensions, mm/inch													
			D_{5m}	dm_t	D_{21}	D_{22}	l_1	l_3	l_{21}	l_{22}	l_{c1}	α_{21}				
63	392.410CGA-63 12 076B	1	63	12	43.5	19.8	76	50								
			2.480	.472	1.713	.780	2.992	1.969								
	392.410CGA-63 20 088B	1	63	20	52	28.3	88	62								
			2.480	.787	2.047	1.114	3.465	2.441								
	392.410CGA-63 20 150	1	63	20	52	28.3	150	124								
			2.480	.787	2.047	1.114	5.906	4.882								
	392.410CGA-63 25 092	1	63	25	59	38.3	92	66								
			2.480	.984	2.323	1.508	3.622	2.598								
	392.410CGA-63 32 096B	1	63	32	69.5	46.5	96	70	20.3							
			2.480	1.260	2.736	1.831	3.780	2.756	.799							
	S-392.410CGA-63 12 100	1	63	12	43.5	19.8	100	74								
			2.480	.472	1.713	.780	3.937	2.913								
	S-392.410CGA-63 16 086	1	63	16	48	25.8	86	60								
			2.480	.630	1.889	1.016	3.386	2.362								
	S-392.410CGA-63 16 125	1	63	16	48	25.8	125	99								
			2.480	.630	1.889	1.016	4.921	3.898								
	S-392.410CGA-63 25 150	1	63	25	59	38.3	150	124								
			2.480	.984	2.323	1.508	5.906	4.882								
100	392.410CGA-100 12 079B	1	100	12	43.5	19.8	79	50								
			3.937	.472	1.713	.780	3.110	1.969								
	392.410CGA-100 20 091B	1	100	20	52	28.3	91	62								
			3.937	.787	2.047	1.114	3.583	2.441								
	392.410CGA-100 25 095	1	100	25	59	39.4	95	66								
			3.937	.984	2.323	1.551	3.740	2.598								
	392.410CGA-100 32 099B	1	100	32	69.5	47.8	99	70								
			3.937	1.260	2.736	1.882	3.898	2.756								
	S-392.410CGA-100 12 100	1	100	12	43.5	19.8	100	71								
			3.937	.472	1.713	.780	3.937	2.795								
	S-392.410CGA-100 16 089	1	100	16	48	25.8	89	60								
			3.937	.630	1.889	1.016	3.504	2.362								
	S-392.410CGA-100 16 125	1	100	16	48	25.8	125	96								
			3.937	.630	1.889	1.016	4.921	3.780								
	S-392.410CGA-100 20 150	1	100	20	52	28.3	150	121								
			3.937	.787	2.047	1.114	5.906	4.764								
	S-392.410CGA-100 25 150	1	100	25	59	39.4	150	121								
			3.937	.984	2.323	1.551	5.906	4.764								

¹⁾ 0= No coolant, 1= Coolant through center, 6= Coolant through flange, 7= Coolant through center and through flange



Individually balanced



Non stocked items

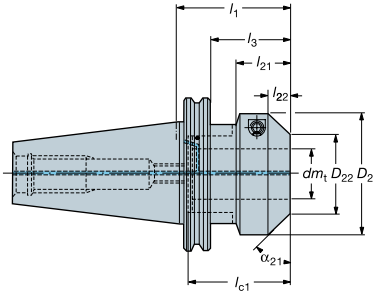
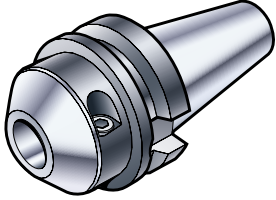
Hydro-Grip®

High precision chuck adapter

Short version

Form A/B

392.272CG/ .55CG/ .45CG



l_1 = programming length

Spindle design	Taper	Ordering code	Coolant ¹⁾	Dimensions, mm									Ⓚ KG
				dm_1	D_{21}	D_{22}	l_1	l_3	l_{21}	l_{22}	l_{C1}	α_{21}	
ISO 7388/1	40	392.272CG-40 12 056	7	12	43.5	19.8	56	36.9		20.5	40	60	1.2
		392.272CG-40 20 060A	7	20	52	27.3	60	40.9		4.5	52	70	1.3
		392.272CG-40 20 125	7	20	52	28.3	125	105.9			52	70	2.1
		392.272CG-40 25 064	7	25	59	37.6	64	44.9	19.3	7.5	56	35	1.4
		S-392.272CG-40 12 100	7	12	43.5	19.8	100	80.9		20.5	40	60	1.6
		S-392.272CG-40 16 073	7	16	48	25.8	73	53.9		30.5	50	70	1.3
		S-392.272CG-40 16 125	7	16	48	25.8	125	105.9		30.5	50	70	2
ISO 7388/1	50	392.272CG-50 20 060	7	20	52	29.2	60	40.9		24.5	52	65	3.1
		392.272CG-50 25 064	7	25	59	38.3	64	44.9		28.5	56	70	3.3
		392.272CG-50 25 150	7	25	59	39.4	150	130.9		36.5	56	75	5.1
		392.272CG-50 32 068A	7	32	69.5	46.6	68	48.9		31.5	60	70	3.3
		S-392.272CG-50 12 056	7	12	43.5	19.8	56	36.9		20.5	40	60	2.8
		S-392.272CG-50 12 100	7	12	43.5	19.8	100	80.9		20.5	40	60	3.3
		S-392.272CG-50 16 066	7	16	48	25.8	66	46.9		30.5	50	70	3
		S-392.272CG-50 16 125	7	16	48	25.8	125	105.9		30.5	50	70	3.8
MAS-BT 403	40	392.55CG-40 12 052	7	12	43.5	19.3	52	25		8.5	40	35	1.2
		392.55CG-40 20 056A	7	20	52	26	56	29		13	52	45	1.3
		392.55CG-40 20 125	7	20	52	28.3	125	98		32.5	52	70	2.3
		392.55CG-40 25 060	7	25	59	39.4	60	33		17	56	60	1.4
		S-392.55CG-40 12 100	7	12	43.5	19.3	100	73		20.5	40	60	1.6
		S-392.55CG-40 16 074	7	16	48	25.8	74	47		30.5	50	70	1.4
		S-392.55CG-40 16 125	7	16	48	25.8	125	98		30.5	50	70	2.1
MAS-BT 403	50	392.55CG-50 20 067	7	20	52	26	67	29		13	52	45	4.0
		392.55CG-50 25 071	7	25	59	39.4	71	33		17	56	60	4.1
		392.55CG-50 25 150	7	25	59	39.4	15	112		36.5	56	75	5.7
		392.55CG-50 32 075A	7	32	69.5	45.8	75	37		20.5	60	60	4.4
		S-392.55CG-50 12 075	7	12	43.5	19.8	75	37		20.5	40	60	3.9
		S-392.55CG-50 12 100	7	12	43.5	19.8	100	62		20.5	40	60	4.2
		S-392.55CG-50 16 085	7	16	48	25.3	85	47		30.5	50	70	4
		S-392.55CG-50 16 125	7	16	48	25.3	125	87		30.5	50	70	4.6
		S-392.55CG-50 20 150	7	20	52	26	150	112		32.5	52	70	5


Continues...

¹⁾ 0= No coolant, 1= Coolant through center, 6= Coolant through flange, 7= Coolant through center and through flange


Individually balanced


Non stocked items

l_1 = programming length

Spindle design	Taper	Ordering code	Coolant ¹⁾	Dimensions, mm/inch										 KG
				dm_1	D_{21}	D_{22}	l_1	l_3	l_{21}	l_{22}	l_{c1}	α_{21}		
Cat V	40	392.45CG-40 12 056	7	12	43.5	19.8	56	36.9		20.5	40	60	2.6	
				.472	1.713	.780	2.205	1.453		.807	1.575	2.362		
		392.45CG-40 20 060	7	20	52	27.3	60	40.9	18.3	4.5	52	70	2.9	
				.787	2.047	1.075	2.362	1.610	.720	.177	2.047	2.756		
		392.45CG-40 20 125	7	20	52	27.3	125	105.9	20.4	32.5	52	70	4.4	
				.787	2.047	1.075	4.921	4.169	.803	1.280	2.047	2.756		
		392.45CG-40 25 064	7	25	59	37.6	64	44.9		36.5	56	75	3.1	
				.984	2.323	1.480	2.520	1.768		1.437	2.205	2.953		
		S-392.45CG-40 12 100	7	12	43.5	19.8	100	80.95		20.5	40	60	1.6	
				.472	1.713	.780	3.937	3.187		.807	1.575	2.362		
		S-392.45CG-40 16 086	7	16	48	25.8	86	66.95		30.5	50	70	1.4	
				.630	1.889	1.016	3.386	2.636		1.201	1.969	2.756		
		S-392.45CG-40 16 125	7	16	48	25.8	125	105.95		30.5	50	70	2	
				.630	1.889	1.016	4.921	4.171		1.201	1.969	2.756		
Cat V	50	392.45CG-50 20 060	7	20	52	29.2	60	40.9		24.5	52	65	7.1	
				.787	2.047	1.150	2.362	1.610		.965	2.047	2.559		
		392.45CG-50 25 064	7	25	59	38.3	64	44.9		28.5	56	70	7.5	
				.984	2.323	1.508	2.520	1.768		1.122	2.205	2.756		
		392.45CG-50 25 150	7	25	59	38.3	150	130		36.5	56	75	11.5	
				.984	2.323	1.508	5.906	5.118		1.437	2.205	2.953		
		392.45CG-50 32 068	7	32	69.5	46.6	68	48.9		31.5	60	70	7.9	
				1.260	2.736	1.835	2.677	1.925		1.240	2.362	2.756		
		S-392.45CG-50 20 150	7	20	52	29.2	150	130.95		24.5	52	70	4.3	
				.787	2.047	1.150	5.906	5.156		.965	2.047	2.756		
		S-392.45CG-50 12 056	7	12	43.5	19.8	56	39.95		20.5	40	60	2.8	
				.472	1.713	.780	2.205	1.573		.807	1.575	2.362		
		S-392.45CG-50 12 100	7	12	43.5	19.8	100	80.95		20.5	40	60	3.3	
				.472	1.713	.780	3.937	3.187		.807	1.575	2.362		
		S-392.45CG-50 16 066	7	16	48	25.8	66	46.95		30.5	50	70	3	
		.630	1.889	1.016	2.598	1.848		1.201	1.969	2.756				
S-392.45CG-50 16 125	7	16	48	25.8	125	105.95		30.5	50	70	3.8			
		.630	1.889	1.016	4.921	4.171		1.201	1.969	2.756				

¹⁾ 0= No coolant, 1= Coolant through center, 6= Coolant through flange, 7= Coolant through center and through flange

 Individually balanced

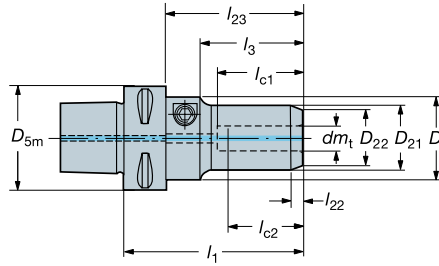
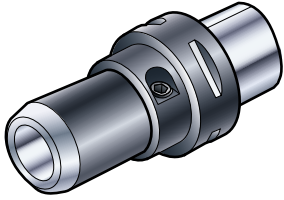
 Non stocked items

Hydro-Grip®


High precision chuck adapter

Slender version

Coromant Capto®
391.CGC



l_1 = programming length

Coupling size	Ordering code	Coolant ¹⁾	Dimensions, mm/inch											 KG
			D_{5m}	dm_t	D_1	D_{21}	D_{22}	l_1	l_3	l_{22}	l_{23}	l_{c1}	l_{c2} ²⁾	
C4	C4-391.CGC-12 081	1	40	12	40	32	28	81	43	10		40	35	0.7
			1.575	.472	1.575	1.260	1.102	3.189	1.693	.394		1.575	1.378	
C4	C4-391.CGC-12 100	1	40	12	40	32	28	100	43	10		40	35	0.9
			1.575	.472	1.575	1.260	1.102	3.937	1.693	.394		1.575	1.378	
C4	C4-391.CGC-20 101	1	40	20	50	40	36	101	55	10		52	46	1.0
			1.575	.787	1.969	1.575	1.417	3.976	2.165	.394		2.047	1.811	
S-C4	S-C4-391.CGC-06 081	1	40	6	40	26	22	81	43	10		40	35	0.6
			1.575	.236	1.575	1.024	.866	3.189	1.693	.394		1.575	1.378	
S-C4	S-C4-391.CGC-08 081	1	40	8	40	28	24	81	43	10		40	35	0.6
			1.575	.315	1.575	1.102	.945	3.189	1.693	.394		1.575	1.378	
S-C4	S-C4-391.CGC-10 081	1	40	10	40	30	26	81	43	10		40	35	0.6
			1.575	.394	1.575	1.181	1.024	3.189	1.693	.394		1.575	1.378	
S-C4	S-C4-391.CGC-16 091	1	40	16	40	38	34	91	53	10		50	45	0.8
			1.575	.630	1.575	1.496	1.339	3.583	2.087	.394		1.969	1.772	
C5	C5-391.CGC-12 085	1	50	12	40	32	28	85	43	10	65	40	35	0.9
			1.969	.472	1.575	1.260	1.102	3.346	1.693	.394	2.559	1.575	1.378	
C5	C5-391.CGC-20 093	1	50	20	50	40	36	93	55	10		52	46	1.1
			1.969	.787	1.969	1.575	1.417	3.661	2.165	.394		2.047	1.811	
C5	C5-391.CGC-25 097	1	50	25	50	45	41	97	59	10		56	50	1.2
			1.969	.984	1.969	1.772	1.614	3.819	2.323	.394		2.205	1.969	
S-C5	S-C5-391.CGC-06 085	1	50	6	40	26	22	85	43	10	65	40	35	0.8
			1.969	.236	1.575	1.024	.866	3.346	1.693	.394	2.559	1.575	1.378	
S-C5	S-C5-391.CGC-08 085	1	50	8	40	28	24	85	43	10	65	40	35	0.8
			1.969	.315	1.575	1.102	.945	3.346	1.693	.394	2.559	1.575	1.378	
S-C5	S-C5-391.CGC-10 085	1	50	10	40	30	26	85	43	10	65	40	35	0.8
			1.969	.394	1.575	1.181	1.024	3.346	1.693	.394	2.559	1.575	1.378	
S-C5	S-C5-391.CGC-16 095	1	50	16	40	38	34	95	53	10	75	50	45	1
			1.969	.630	1.575	1.496	1.339	3.740	2.087	.394	2.953	1.969	1.772	

Continues...

¹⁾ 0= No coolant, 1= Coolant through center, 6= Coolant through flange, 7= Coolant through center and through flange

²⁾ Min. clamping length




Individually balanced




Non stocked items

l_1 = programming length

Coupling size	Ordering code	Coolant ¹⁾	Dimensions, mm/inch											
			D_{5m}	dm_t	D_1	D_{21}	D_{22}	l_1	l_3	l_{22}	l_{23}	l_{c1}	l_{c2} ²⁾	
C6	C6-391.CGC-12 087	1	63	12	40	32	28	87	43	10	65	40	35	1.2
			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
			2.480	.787	1.969	1.575	1.417	3.819	2.165	.394	2.953	2.047	1.811	
	C6-391.CGC-20 150	1	63	20	50	40	36	150	55	10	128	52	46	2.3
			2.480	.787	1.969	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
			2.480	.984	1.969	1.772	1.614	3.976	2.323	.394	3.110	2.205	1.969	
	S-C6-391.CGC-06 087	1	63	6	40	26	22	87	43	10	65	40	35	1.1
			2.480	.236	1.575	1.024	.866	3.425	1.693	.394	2.559	1.575	1.378	
	S-C6-391.CGC-08 087	1	63	8	40	28	24	87	43	10	65	40	35	1.1
			2.480	.315	1.575	1.102	.945	3.425	1.693	.394	2.559	1.575	1.378	
	S-C6-391.CGC-10 087	1	63	10	40	30	26	87	43	10	65	40	35	1.2
			2.480	.394	1.575	1.181	1.024	3.425	1.693	.394	2.559	1.575	1.378	
	S-C6-391.CGC-16 097	1	63	16	40	38	34	97	53	10	75	50	45	1.3
			2.480	.630	1.575	1.496	1.339	3.819	2.087	.394	2.953	1.969	1.772	
C8	C8-391.CGC-20 103	1	80	20	50	40	36	103	55	10	72	52	46	2.5
			3.150	.787	1.969	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
			3.150	.984	1.969	1.772	1.614	4.213	2.323	.394	2.992	2.205	1.969	
	S-C8-391.CGC-10 094	1	80	10	40	30	26	94	43	10	64	40	35	2.2
			3.150	.394	1.575	1.181	1.024	3.701	1.693	.394	2.520	1.575	1.378	
	S-C8-391.CGC-12 094	1	80	12	40	32	28	94	43	10	64	40	35	2.2
			3.150	.472	1.575	1.260	1.102	3.701	1.693	.394	2.520	1.575	1.378	
	S-C8-391.CGC-16 104	1	80	16	40	38	34	104	53	10	74	50	45	2.4
			3.150	.630	1.575	1.496	1.339	4.094	2.087	.394	2.913	1.969	1.772	

¹⁾ 0= No coolant, 1= Coolant through center, 6= Coolant through flange, 7= Coolant through center and through flange

²⁾ Min. clamping length

 Individually balanced

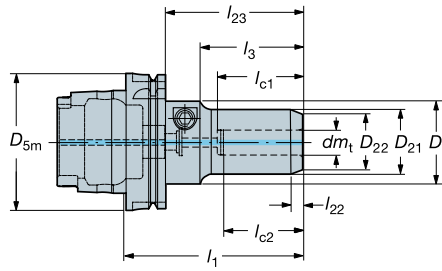
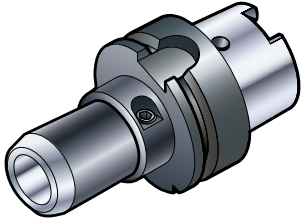
 Non stocked items

Hydro-Grip®


High precision chuck adapter

Slender version


HSK form A/C
392.410CGC



l_1 = programming length

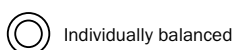
HSK size	Ordering code	Coolant ¹⁾	Dimensions, mm/inch											 KG
			D_{sm}	dm_t	D_1	D_{21}	D_{22}	l_1	l_3	l_{22}	l_{23}	l_{c1}	$l_{c2}^{2)}$	
63	S-392.410CGC-63 06 089	1	63	6	40	26	22	89.5	63.5	10	43	40	35	1
			2.480	.236	1.575	1.024	.866	3.524	2.500	.394	1.693	1.575	1.378	
	S-392.410CGC-63 08 089	1	63	8	40	28	24	89.5	63.5	10	43	40	35	1
			2.480	.315	1.575	1.102	.945	3.524	2.500	.394	1.693	1.575	1.378	
	S-392.410CGC-63 10 089	1	63	10	40	30	26	89.5	63.5	10	43	40	35	1
			2.480	.394	1.575	1.181	1.024	3.524	2.500	.394	1.693	1.575	1.378	
	S-392.410CGC-63 12 089	1	63	12	40	32	28	89.5	63.5	10	43	40	35	1
			2.480	.472	1.575	1.260	1.102	3.524	2.500	.394	1.693	1.575	1.378	
	S-392.410CGC-63 16 099	1	63	16	40	38	34	99.5	73.5	10	53	50	45	1.2
			2.480	.630	1.575	1.496	1.339	3.917	2.894	.394	2.087	1.969	1.772	
S-392.410CGC-63 20 102	1	1	63	20	50	40	36	102	76	10	55	52	46	1.3
			2.480	.787	1.969	1.575	1.417	4.016	2.992	.394	2.165	2.047	1.811	
			63	20	50	45	41	106	80	10	59	56	50	1.4
			2.480	.787	1.969	1.772	1.614	4.173	3.150	.394	2.323	2.205	1.969	
100	S-392.410CGC-100 10 095	1	100	10	40	30	26	95	66	10	43	40	35	2.4
			3.937	.394	1.575	1.181	1.024	3.740	2.598	.394	1.693	1.575	1.378	
	S-392.410CGC-100 12 095	1	100	12	40	32	28	95	66	10	43	40	35	2.4
			3.937	.472	1.575	1.260	1.102	3.740	2.598	.394	1.693	1.575	1.378	
	S-392.410CGC-100 16 105	1	100	16	40	38	34	105	76	10	53	50	45	2.6
			3.937	.630	1.575	1.496	1.339	4.134	2.992	.394	2.087	1.969	1.772	
S-392.410CGC-100 20 107	1	1	100	20	50	40	36	107	78	10	55	52	46	2.7
			3.937	.787	1.969	1.575	1.417	4.213	3.071	.394	2.165	2.047	1.811	
			100	25	50	45	41	111	82	10	59	56	50	2.8
S-392.410CGC-100 25 111	1	100	25	50	45	41	111	82	10	59	56	50	2.8	
			3.937	.984	1.969	1.772	1.614	4.370	3.228	.394	2.323	2.205	1.969	

HSK form E 392.410CGC

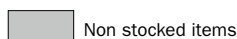
HSK size	Ordering code	Coolant ¹⁾	Dimensions, mm/inch											 KG
			D_{sm}	dm_t	D_1	D_{21}	D_{22}	l_1	l_3	l_{22}	l_{23}	l_{c1}	$l_{c2}^{2)}$	
50	S-392.410CGC-50 06 087		50	6	40	26	22	87	61	10	43	40	35	0.7
			1.969	.236	1.575	1.024	.866	3.425	2.402	.394	1.693	1.575	1.378	
S-392.410CGC-50 08 087			50	8	40	28	24	87	61	10	43	40	35	0.8
			1.969	.315	1.575	1.102	.945	3.425	2.402	.394	1.693	1.575	1.378	
S-392.410CGC-50 10 087			50	10	40	30	26	87	61	10	43	40	35	0.8
			1.969	.394	1.575	1.181	1.024	3.425	2.402	.394	1.693	1.575	1.378	
S-392.410CGC-50 12 087			50	12	40	32	28	87	61	10	43	40	35	0.8
			1.969	.472	1.575	1.260	1.102	3.425	2.402	.394	1.693	1.575	1.378	

¹⁾ 0= No coolant, 1= Coolant through center, 6= Coolant through flange, 7= Coolant through center and through flange

²⁾ Min. clamping length



Individually balanced



Non stocked items

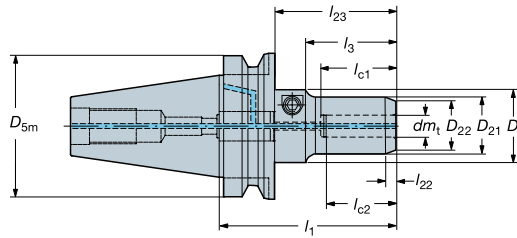
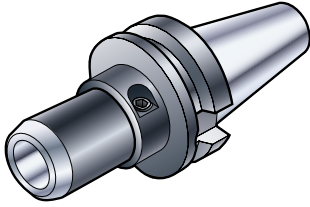
Hydro-Grip®

High precision chuck adapter

Slender version

Form A/B

392.272CGC/ .55CGC/ .45CGC



l_1 = programming length

Spindle design	Taper	Ordering code	Coolant ¹⁾	Dimensions, mm											KG
				D_{5m}	dm_1	D_1	D_{21}	D_{22}	l_1	l_3	l_{22}	l_{23}	l_{c1}	l_{c2} ²⁾	
ISO 7388/1	40	S-392.272CGC-40 06 080	7	63.55	6	40	26	22	80	43	10	60.9	40	35	1.1
		S-392.272CGC-40 08 080	7	63.55	8	40	28	24	80	43	10	60.9	40	35	1.1
		S-392.272CGC-40 10 080	7	63.55	10	40	30	26	80	43	10	60.9	40	35	1.2
		S-392.272CGC-40 12 080	7	63.55	12	40	32	28	80	43	10	60.9	40	35	1.2
		S-392.272CGC-40 16 090	7	63.55	16	40	38	34	90	53	10	70.9	50	45	1.3
		S-392.272CGC-40 20 100	7	63.55	20	50	40	36	100	55	10	80.9	52	46	1.6
		S-392.272CGC-40 25 104	7	63.55	25	50	45	41	104	59	10	84.9	56	50	1.7
ISO 7388/1	50	S-392.272CGC-50 10 080	7	97.5	10	40	30	26	80	43	10	60.9	40	35	2.9
		S-392.272CGC-50 12 080	7	97.5	12	40	32	28	80	43	10	60.9	40	35	3
		S-392.272CGC-50 16 090	7	97.5	16	40	38	34	90	53	10	70.9	50	45	3.1
		S-392.272CGC-50 20 092	7	97.5	20	50	40	36	92	55	10	72.9	52	46	3.2
		S-392.272CGC-50 25 104	7	97.5	25	50	45	41	104	59	10	76.9	56	50	3.3
MAS-BT 403	30	S-392.55CGC-30 06 083	7	46	6	40	26	22	83	43	10	61	40	35	0.3
		S-392.55CGC-30 08 083	7	46	8	40	28	24	83	43	10	61	40	35	0.3
		S-392.55CGC-30 10 083	7	46	10	40	30	26	83	43	10	61	40	35	0.4
		S-392.55CGC-30 12 083	7	46	12	40	32	28	83	43	10	61	40	35	0.4
MAS-BT 403	40	S-392.55CGC-40 06 088	7	63	6	40	26	22	88	43	10	61	40	35	1.3
		S-392.55CGC-40 08 088	7	63	8	40	28	24	88	43	10	61	40	35	1.3
		S-392.55CGC-40 10 088	7	63	10	40	30	26	88	43	10	61	40	35	1.3
		S-392.55CGC-40 12 088	7	63	12	40	32	28	88	43	10	61	40	35	1.3
		S-392.55CGC-40 16 098	7	63	16	40	38	34	98	53	10	71	50	45	1.5
		S-392.55CGC-40 20 100	7	63	20	50	40	36	100	55	10	73	52	46	1.6
		S-392.55CGC-40 25 104	7	63	25	50	45	41	104	59	10	77	56	50	1.7
MAS-BT 403	50	S-392.55CGC-50 10 099	7	100	10	40	30	26	99	43	10	61	40	35	3.9
		S-392.55CGC-50 12 099	7	100	12	40	32	28	99	43	10	61	40	35	4
		S-392.55CGC-50 16 109	7	100	16	40	38	34	109	53	10	71	50	45	4.1
		S-392.55CGC-50 20 111	7	100	20	50	40	36	111	55	10	73	52	46	4.2
		S-392.55CGC-50 25 115	7	100	25	50	45	41	115	59	10	77	56	50	.3

Continues...

¹⁾ 0= No coolant, 1= Coolant through center, 6= Coolant through flange, 7= Coolant through center and through flange

²⁾ Min. clamping length



Individually balanced




Non stocked items

Hydro-Grip®

High precision chuck adapter


Slender version


l_1 = programming length

Spindle design	Taper	Ordering code	Coolant ¹⁾	Dimensions, mm/inch												
				D_{sm}	dm_t	D_1	D_{21}	D_{22}	l_1	l_3	l_{22}	l_{23}	l_{c1}	l_{c2} ²⁾		
CAT V	40	S-392.45CGC-40 06 081	7	63.5	6	40	26	22	81	43	10	61.95	40	35	1.1	
				2.500	.236	1.575	1.024	.866	3.189	1.693	.394	2.439	1.575	1.378		
		S-392.45CGC-40 08 081	7	63.5	8	40	28	24	81	43	10	61.95	40	35	1.2	
				2.500	.315	1.575	1.102	.945	3.189	1.693	.394	2.439	1.575	1.378		
		S-392.45CGC-40 10 081	7	63.5	10	40	30	26	81	43	10	61.95	40	35	1.2	
				2.500	.394	1.575	1.181	1.024	3.189	1.693	.394	2.439	1.575	1.378		
		S-392.45CGC-40 12 081	7	63.5	12	40	32	28	81	43	10	61.95	40	35	1.2	
				2.500	.472	1.575	1.260	1.102	3.189	1.693	.394	2.439	1.575	1.378		
S-392.45CGC-40 16 091	7	63.5	16	40	38	34	91	53	10	71.95	50	45	1.3			
		2.500	.630	1.575	1.496	1.339	3.583	2.087	.394	2.833	1.969	1.772				
S-392.45CGC-40 20 116	7	63.5	20	50	40	36	116	55	10	96.95	52	46				
		2.500	.787	1.969	1.575	1.417	4.567	2.165	.394	3.817	2.047	1.811				
S-392.45CGC-40 25 120	7	63.5	25	50	45	41	120	59	10	100.95	56	50				
		2.500	.984	1.969	1.772	1.614	4.724	2.323	.394	3.974	2.205	1.969				
CAT V	50	S-392.45CGC-50 10 081	7	98.4	10	40	30	26	81	43	10	61.95	40	35	2.9	
				3.874	.394	1.575	1.181	1.024	3.189	1.693	.394	2.439	1.575	1.378		
		S-392.45CGC-50 12 081	7	98.4	12	40	32	28	81	43	10	61.95	40	35	3	
				3.874	.472	1.575	1.260	1.102	3.189	1.693	.394	2.439	1.575	1.378		
		S-392.45CGC-50 16 091	7	98.4	16	40	38	34	91	53	10	71.95	50	45	3.1	
				3.874	.630	1.575	1.496	1.339	3.583	2.087	.394	2.833	1.969	1.772		
		S-392.45CGC-50 20 093	7	98.4	20	50	40	36	93	55	10	73.95	52	46	3.2	
				3.874	.787	1.969	1.575	1.417	3.661	2.165	.394	2.911	2.047	1.811		
S-392.45CGC-50 25 097	7	98.4	25	50	45	41	97	59	10	77.95	56	50	3.3			
		3.874	.984	1.969	1.772	1.614	3.819	2.323	.394	3.069	2.205	1.969				

¹⁾ 0= No coolant, 1= Coolant through center, 6= Coolant through flange, 7= Coolant through center and through flange

²⁾ Min. clamping length

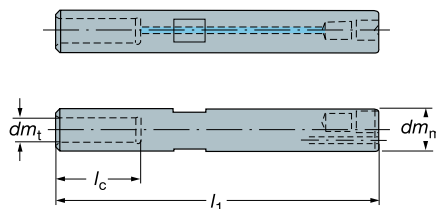
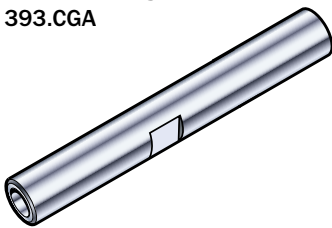
 Individually balanced

 Non stocked items


High precision chuck

Cylindrik shank

Coolant through
393.CGA



l_1 = programming length

Ordering code	Coolant ¹⁾	Dimensions, mm/inch					Collet size
		dm_m	dm_t	l_c	l_1		
393.CGA-20 12 150	1	20	12	40	150	0.4	12
		.787	.472	1.575	5.906		

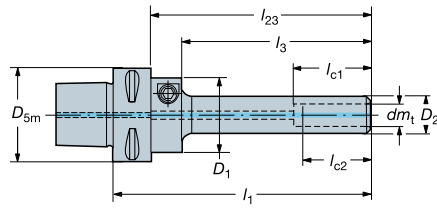
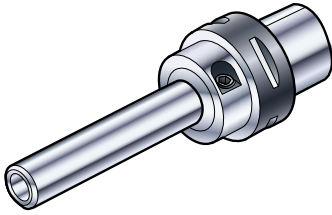
¹⁾ 0= No coolant, 1= Coolant through center, 6= Coolant through flange, 7= Coolant through center and through flange

Hydro-Grip®

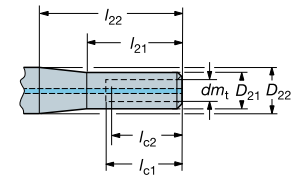
High precision chuck adapter

Pencil type

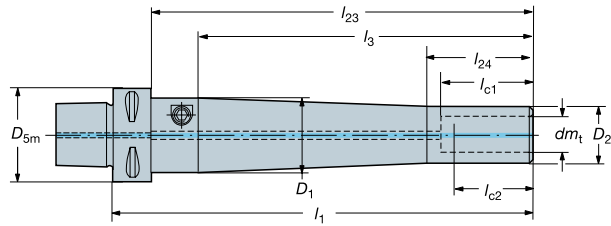
Coromant Capto®
391.CGB



Design 1



Design 2



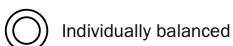
Design 3

l_1 = programming length

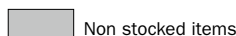
Coupling size	Design	Ordering code	Coolant ¹⁾	Dimensions, mm/inch													Ⓚ KG	
				D_{sm}	dm_1	D_1	D_{21}	D_{22}	l_{c1}	$l_{c2}^{2)}$	l_1	l_3	l_{21}	l_{22}	l_{23}	l_{24}		
C4	1	C4-391.CGB-06 086	1	40	6	40	12		40	37	86	50						0.4
				1.575	.236	1.575	.472		1.575	1.457	3.386	1.969						
	1	C4-391.CGB-12 098A	1	40	12	40	19.5		40	37	98	50						0.6
				1.575	.472	1.575	.768		1.575	1.457	3.858	1.969						
	1	C4-391.CGB-12 148A	1	40	12	40	19.5		40	37	148	100						0.9
				1.575	.472	1.575	.768		1.575	1.457	5.827	3.937						
	2	C4-391.CGB-12 198A	1	40	12	40	19.5	24.5	40	37	198	150	50	75				1.2
				1.575	.472	1.575	.768	.965	1.575	1.457	7.795	5.906	1.969	2.953				
	1	S-C4-391.CGB-08 098	1	40	8	40	14.5		40	37	98	50						0.6
				1.575	.315	1.575	.571		1.575	1.457	3.858	1.969						
1	S-C4-391.CGB-10 098	1	40	10	40	17		40	37	98	50						0.6	
			1.575	.394	1.575	.669		1.575	1.457	3.858	1.969							
1	S-C4-391.CGB-10 148	1	40	10	40	17		40	37	148	100						0.7	
			1.575	.394	1.575	.669		1.575	1.457	5.827	3.937							
C5	1	C5-391.CGB-06 086	1	50	6	40	12		40	37	86	50			66		0.7	
				1.969	.236	1.575	.472		1.575	1.457	3.386	1.969			2.598			
	1	C5-391.CGB-12 086	1	50	12	40	19.5		40	37	86	50			66		0.5	
				1.969	.472	1.575	.768		1.575	1.457	3.386	1.969			2.598			
	1	C5-391.CGB-12 136	1	50	12	40	19.5		40	37	136	100			116		0.8	
				1.969	.472	1.575	.768		1.575	1.457	5.354	3.937			4.567			
	2	C5-391.CGB-12 186	1	50	12	40	19.5	24.5	40	37	186	150	50	75	166		1.2	
				1.969	.472	1.575	.768	.965	1.575	1.457	7.323	5.906	1.969	2.953	6.535			
	3	C5-391.CGB-20 158A	1	50	20	40	32		52	49	158	110			138	60	1.7	
				1.969	.787	1.575	1.260		2.047	1.929	6.220	4.331			5.433	2.362		
	3	C5-391.CGB-20 238A	1	50	20	40	32		52	49	238	190			218	60	2.3	
				1.969	.787	1.575	1.260		2.047	1.929	9.370	7.480			8.583	2.362		
	1	S-C5-391.CGB-08 086	1	50	8	40	14.5		40	37	86	50			66		0.6	
				1.969	.315	1.575	.571		1.575	1.457	3.386	1.969			2.598			
	1	S-C5-391.CGB-10 086	1	50	10	40	17		40	37	86	50			66		0.6	
				1.969	.394	1.575	.669		1.575	1.457	3.386	1.969			2.598			
1	S-C5-391.CGB-10 136	1	50	10	40	17		40	37	136	100			116		0.7		
			1.969	.394	1.575	.669		1.575	1.457	5.354	3.937			4.567				
1	S-C5-391.CGB-16 111	1	50	16	40	26		50	47	111	75			91		0.8		
			1.969	.630	1.575	1.024		1.969	1.850	4.370	2.953			3.583				
1	S-C5-391.CGB-16 161	1	50	16	40	26		50	47	161	125			141		1		
			1.969	.630	1.575	1.024		1.969	1.850	6.339	4.921			5.551				

¹⁾ 0= No coolant, 1= Coolant through center, 6= Coolant through flange, 7= Coolant through center and through flange

²⁾ Min. clamping length



Individually balanced



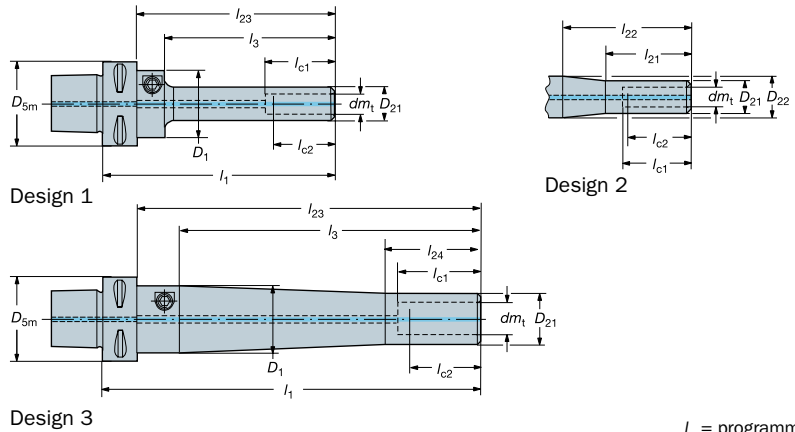
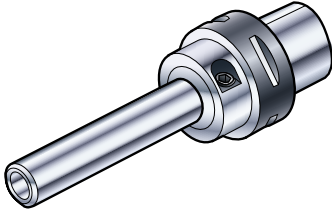
Non stocked items

Hydro-Grip®

High precision chuck adapter

Pencil type

Coromant Capto®
391.CGB

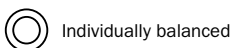


l_1 = programming length

Coupling size	Design	Ordering code	Coolant ¹⁾	Dimensions, mm/inch													KG
				D_{sm}	dm_1	D_1	D_{21}	D_{22}	l_{c1}	$l_{c2}^{2)}$	l_1	l_3	l_{21}	l_{22}	l_{23}	l_{24}	
C6	1	C6-391.CGB-06 088	1	63	6	40	12		40	37	88	50		66		1.0	
				2.480	.236	1.575	.472		1.575	1.457	3.465	1.969		2.598			
	1	C6-391.CGB-12 092A	1	63	12	40	19.5		40	37	92	50		70		1.1	
				2.480	.472	1.575	.768		1.575	1.457	3.622	1.969		2.756			
	1	C6-391.CGB-12 142A	1	63	12	40	19.5		40	37	142	100		120		1.4	
				2.480	.472	1.575	.768		1.575	1.457	5.591	3.937		4.724			
	2	C6-391.CGB-12 192A	1	63	12	40	19.5	24.5	40	37	192	150	50	75	170		1.3
				2.480	.472	1.575	.768	.965	1.575	1.457	7.559	5.906	1.969	2.953	6.693		
	3	C6-391.CGB-20 152A	1	63	20	40	32		52	49	152	110		130	60	1.9	
				2.480	.787	1.575	1.260		2.047	1.929	5.984	4.331		5.118	2.362		
	3	C6-391.CGB-20 232A	1	63	20	40	32		52	49	232	190		210	60	2.6	
				2.480	.787	1.575	1.260		2.047	1.929	9.134	7.480		8.268	2.362		
S-C6	1	S-C6-391.CGB-08 088	1	63	8	40	14.5		40	37	88	50		66		1	
				2.480	.315	1.575	.571		1.575	1.457	3.465	1.969		2.598			
	1	S-C6-391.CGB-10 088	1	63	10	40	17		40	37	88	50		66		1	
				2.480	.394	1.575	.669		1.575	1.457	3.465	1.969		2.598			
	1	S-C6-391.CGB-10 138	1	63	10	40	17		40	37	138	100		116		1.1	
				2.480	.394	1.575	.669		1.575	1.457	5.433	3.937		4.567			
	1	S-C6-391.CGB-16 113	1	63	16	40	26		50	47	113	75		91		1.1	
				2.480	.630	1.575	1.024		1.969	1.850	4.449	2.953		3.583			
	1	S-C6-391.CGB-16 163	1	63	16	40	26		50	47	163	125		141		1.3	
				2.480	.630	1.575	1.024		1.969	1.850	6.417	4.921		5.551			
	C8	1	C8-391.CGB-12 100	1	80	12	40	19.5		40	37	100	50		70		2.2
					3.150	.472	1.575	.768		1.575	1.457	3.937	1.969		2.756		
1		C8-391.CGB-12 150	1	80	12	40	19.5		40	37	150	100		120		2.4	
				3.150	.472	1.575	.768		1.575	1.457	5.906	3.937		4.724			
2		C8-391.CGB-12 200	1	80	12	40	19.5	24.5	40	37	200	150	50	75		2.7	
				3.150	.472	1.575	.768	.965	1.575	1.457	7.874	5.906	1.969	2.953			
3		C8-391.CGB-20 160	1	80	20	40	32		52	49	160	110		130	60	2.7	
				3.150	.787	1.575	1.260		2.047	1.929	6.299	4.331		5.118	2.362		
3		C8-391.CGB-20 240	1	80	20	40	32		52	49	240	190		210	60	3.3	
				3.150	.787	1.575	1.260		2.047	1.929	9.449	7.480		8.268	2.362		
1		S-C8-391.CGB-10 100	1	80	10	40	17		40	37	100	50		70		2	
				3.150	.394	1.575	0.669		1.575	1.457	3.937	1.969		2.756			
1	S-C8-391.CGB-10 150	1	80	10	40	17		40	37	150	100		120		2.1		
			3.150	.394	1.575	0.669		1.575	1.457	5.906	3.937		4.724				
1	S-C8-391.CGB-16 125	1	80	16	40	26		50	47	125	75		95		2.2		
			3.150	.630	1.575	1.024		1.969	1.850	4.921	2.953		3.740				
1	S-C8-391.CGB-16 175	1	80	16	40	26		50	47	175	125		145		2.4		
			3.150	.630	1.575	1.024		1.969	1.850	6.890	4.921		5.709				

¹⁾ 0= No coolant, 1= Coolant through center, 6= Coolant through flange, 7= Coolant through center and through flange

²⁾ Min. clamping length



Individually balanced



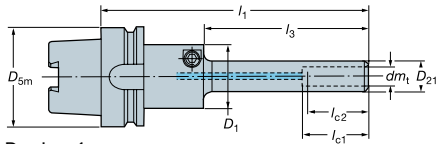
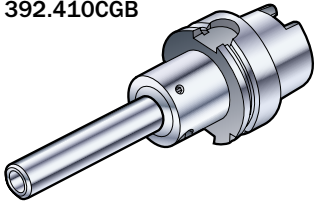
Non stocked items

Hydro-Grip®

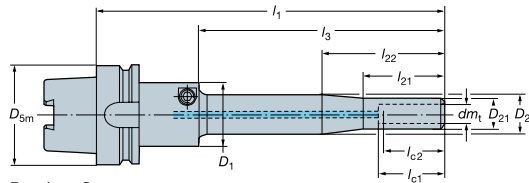
High precision chuck adapter

Pencil type

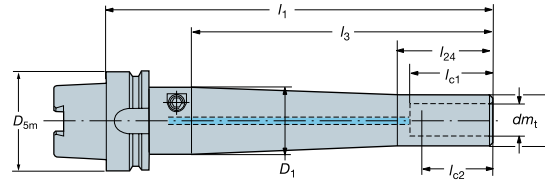
HSK form A/C
392.410CGB



Design 1



Design 2



Design 3

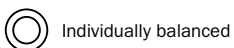
l_1 = programming length

HSK size	Design	Ordering code	Coolant ¹⁾	Dimensions, mm/inch													KG	
				D_{5m}	dm_1	D_1	D_{21}	D_{22}	l_1	l_3	l_{21}	l_{22}	l_{24}	l_{c1}	l_{c2} ²⁾			
63	1	392.410CGB-63 06 095	1	63	6	40	12		94.5	50						40	37	1.0
				2.480	.236	1.575	.472		3.720	1.969					1.575	1.457		
	1	392.410CGB-63 12 112B	1	63	12	40	19.5		112	50						40	37	1.2
				2.480	.472	1.575	.768		4.409	1.969					1.575	1.457		
	1	392.410CGB-63 12 162B	1	63	12	40	19.5		162	100						40	37	1.5
				2.480	.472	1.575	.768		6.378	3.937					1.575	1.457		
	2	392.410CGB-63 12 212B	1	63	12	40	19.5	24.5	212	150	50	75				40	37	1.6
				2.480	.472	1.575	.768	.965	8.346	5.906	1.969	2.953			1.575	1.457		
	1	S-392.410CGB-63 08 095	1	63	8	40	14.5		94.5	50						40	37	0.9
				2.480	.315	1.575	.571		3.720	1.969					1.575	1.457		
	1	S-392.410CGB-63 10 095	1	63	10	40	17		94.5	50						40	37	0.9
				2.480	.394	1.575	.669		3.720	1.969					1.575	1.457		
	1	S-392.410CGB-63 10 145	1	63	10	40	17		144.5	100						40	37	1
				2.480	.394	1.575	.669		5.689	3.937					1.575	1.457		
	1	S-392.410CGB-63 16 120	1	63	16	40	26		119.5	75						50	47	1
				2.480	.630	1.575	1.024		4.705	2.953					1.969	1.850		
	1	S-392.410CGB-63 16 170	1	63	16	40	26		169.5	125						50	47	1.2
				2.480	.630	1.575	1.024		6.673	4.921					1.969	1.850		
	3	S-392.410CGB-63 20 155	1	63	20	40	32		154.5	110				60	52	49	1.5	
				2.480	.787	1.575	1.260		6.083	4.331				2.362	2.047	1.929		
	3	S-392.410CGB-63 20 235	1	63	20	40	32		234.5	190				60	52	49	2.1	
				2.480	.787	1.575	1.260		9.232	7.480				2.362	2.047	1.929		
	100	1	392.410CGB-100 12 115B	1	100	12	40	19.5		115	50					40	37	1.4
					3.937	.472	1.575	.768		4.528	1.969					1.575	1.457	
1		392.410CGB-100 12 165B	1	100	12	40	19.5		165	100					40	37	2.7	
				3.937	.472	1.575	.768		6.496	3.937					1.575	1.457		
2		392.410CGB-100 12 215B	1	100	12	40	19.5	24.5	215	150	50	75			40	37	3.0	
				3.937	.472	1.575	.768	.965	8.465	5.906	1.969	2.953			1.575	1.457		
1		S-392.410CGB-100 10 100	1	100	10	40	17		100	50					40	37	2.4	
				3.937	.394	1.575	.669		3.937	1.969					1.575	1.457		
1		S-392.410CGB-100 10 150	1	100	10	40	17		150	100					40	37	2.3	
				3.937	.394	1.575	.669		5.906	3.937					1.575	1.457		
1		S-392.410CGB-100 16 125	1	100	16	40	26		125	75					50	47	2.4	
				3.937	.630	1.575	1.024		4.921	2.953					1.969	1.850		
1		S-392.410CGB-100 16 175	1	100	16	40	26		175	125					50	47	2.6	
				3.937	.630	1.575	1.024		6.890	4.921					1.969	1.850		
3		S-392.410CGB-100 20 160	1	100	20	40	32		160	110				60	52	49	2.8	
				3.937	.787	1.575	1.260		6.299	4.331				2.362	2.047	1.929		
3		S-392.410CGB-100 20 240	1	100	20	40	32		240	190				60	52	49	3.5	
				3.937	.787	1.575	1.260		9.449	7.480				2.362	2.047	1.929		

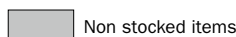
Continues...

¹⁾ 0= No coolant, 1= Coolant through center, 6= Coolant through flange, 7= Coolant through center and through flange

²⁾ Min. clamping length



Individually balanced



Non stocked items


Hydro-Grip®

High precision chuck adapter

Pencil type

HSK form E
392.410CGB

l_1 = programming length

HSK size	Design	Ordering code	Coolant ¹⁾	Dimensions, mm/inch												
				D_{5m}	dm_t	D_1	D_{21}	D_{22}	l_1	l_3	l_{21}	l_{22}	l_{c1}	l_{c2} ²⁾	 KG	
50	1	S-392.410CGB-50 06 092	1	50	6	40	12			92	50			40	37	0.6
				1.969	.236	1.575	.472			3.622	1.969			1.575	1.457	
	1	S-392.410CGB-50 08 092	1	50	8	40	14.5			92	50			40	37	0.6
				1.969	.315	1.575	.571			3.622	1.969			1.575	1.457	
	1	S-392.410CGB-50 10 092	1	50	10	40	17			92	50			40	37	0.6
				1.969	.394	1.575	.669			3.622	1.969			1.575	1.457	
	1	S-392.410CGB-50 10 142	1	50	10	40	17			142	100			40	37	0.7
				1.969	.394	1.575	.669			5.591	3.937			1.575	1.457	
	1	S-392.410CGB-50 12 092	1	50	12	40	19.5			92	50			40	37	0.6
				1.969	.472	1.575	.768			3.622	1.969			1.575	1.457	
	1	S-392.410CGB-50 12 142	1	50	12	40	19.5			142	100			40	37	0.8
				1.969	.472	1.575	.768			5.591	3.937			1.575	1.457	
	2	S-392.410CGB-50 12 192	1	50	12	40	19.5	24.5		192	150	50	75	40	37	1
				1.969	.472	1.575	.768	.965		7.559	5.906	1.969	2.953	1.575	1.457	

¹⁾ 0= No coolant, 1= Coolant through center, 6= Coolant through flange, 7= Coolant through center and through flange

²⁾ Min. clamping length



Individually balanced



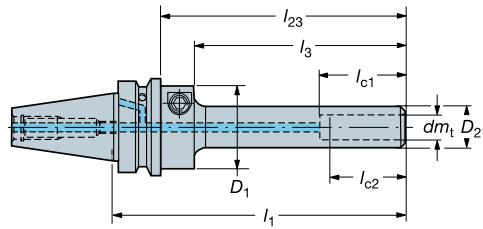
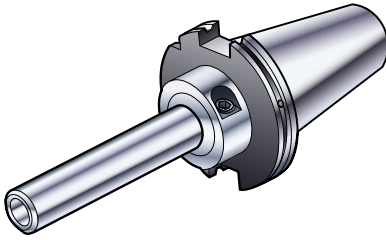
Non stocked items

Hydro-Grip®

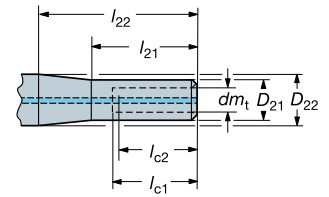
High precision chuck adapter

Pencil type

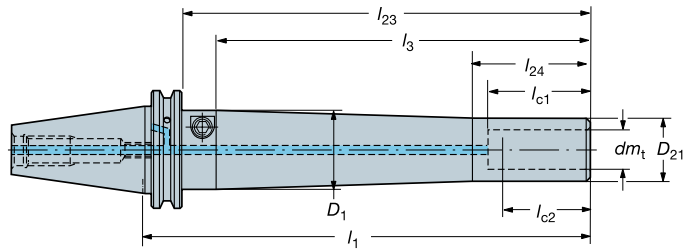
Form A/B
392.272CGB



Design 1



Design 2



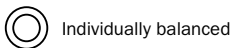
Design 3

l_1 = programming length

Spindle design	Taper	Design	Ordering code	Coolant ¹⁾	Dimensions, mm											KG	
					dm_t	D_1	D_{21}	D_{22}	l_1	l_3	l_{21}	l_{22}	l_{23}	l_{24}	l_{c1}		$l_{c2}^{2)}$
ISO 7388/I	40	1	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 20 145	7	20	40	32		145	110			125.9	60	52	49	1.6
		3	392.272CGB-40 20 225	7	20	40	32		225	190			205.9	60	52	49	2.2
		1	S-392.272CGB-40 06 085	7	6	40	12		85	50			65.9		40	37	1
		1	S-392.272CGB-40 08 085	7	8	40	14.5		85	50			65.9		40	37	1
		1	S-392.272CGB-40 10 085	7	10	40	17		85	50			65.9		40	37	1
		1	S-392.272CGB-40 10 135	7	10	40	17		135	100			115.9		40	37	1.1
		1	S-392.272CGB-40 16 110	7	16	40			110	75			90.9		50	47	1.2
		1	S-392.272CGB-40 16 160	7	16	40			160	125			140.9		50	47	1.4

¹⁾ 0= No coolant, 1= Coolant through center, 6= Coolant through flange, 7= Coolant through center and through flange

²⁾ Min. clamping length



Individually balanced



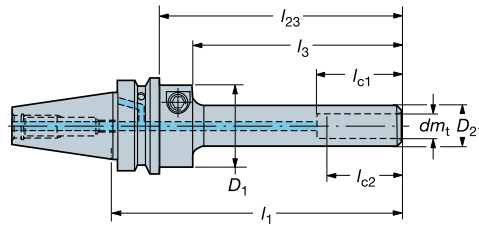
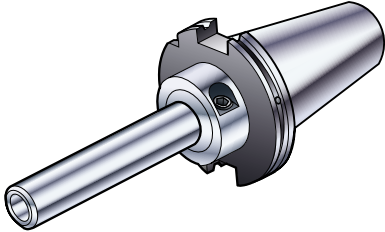
Non stocked items

Hydro-Grip®

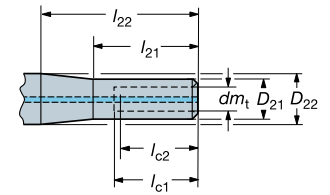
High precision chuck adapter

Pencil type

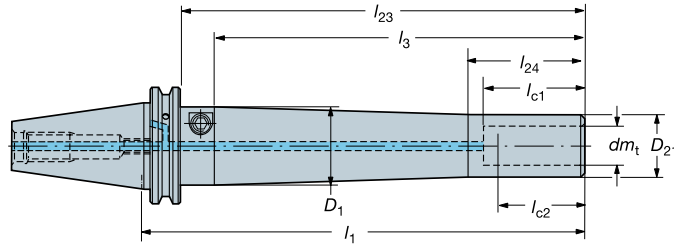
Form A/C
392.550CGB



Design 1



Design 2



Design 3

l_1 = programming length

Spindle design	Taper	Design	Ordering code	Coolant ¹⁾	Dimensions, mm												KG	
					dm_t	D_1	D_{21}	D_{22}	l_1	l_3	l_{21}	l_{22}	l_{23}	l_{24}	l_{c1}	$l_{c2}^{2)}$		
MAS-BT 403	30	1	392.552CGB-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
		2	392.55CGB-30 12 188	7	12	40	19.5	24.5		188	150	50	75	166		40	37	1.0
		1	S-392.55CGB-30 08 088	7	8	40	14.5			88	50			66		40	37	0.6
		1	S-392.55CGB-30 10 088	7	10	40	17			88	50			66		40	37	0.6
		1	S-392.55CGB-30 10 138	7	10	40	17			138	100			116		40	37	0.7
MAS-BT 403	40	1	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
		3	392.55CGB-40 20 233	7	20	40	32			233	190			206	60	52	49	2.4
		1	S-392.55CGB-40 06 093	7	6	40	12			93	50			66		40	37	1.2
		1	S-392.55CGB-40 08 093	7	8	40	14.5			93	50			66		40	37	1.2
		1	S-392.55CGB-40 10 093	7	10	40	17			93	50			66		40	37	1.2
		1	S-392.55CGB-40 10 143	7	10	40	17			143	100			116		40	37	1.3
		1	S-392.55CGB-40 16 118	7	16	40	26			118	75			91		50	47	1.4
1	S-392.55CGB-40 16 168	7	16	40	26			168	125			141		50	47	1.6		

¹⁾ 0= No coolant, 1= Coolant through center, 6= Coolant through flange, 7= Coolant through center and through flange

²⁾ Min. clamping length



Individually balanced



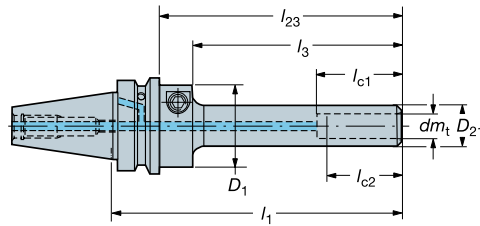
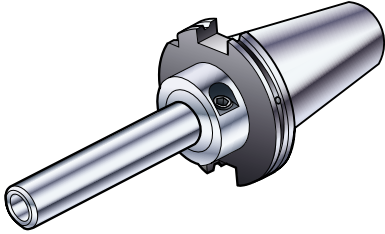
Non stocked items

Hydro-Grip®

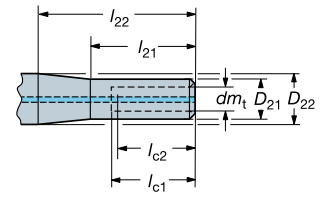
High precision chuck adapter

Pencil type

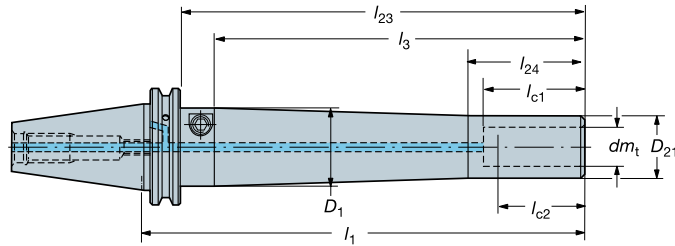
Form A/B
392.45CGB



Design 1



Design 2



Design 3

l_1 = programming length

Spindle design	Taper	Design	Ordering code	Coolant ¹⁾	Dimensions, mm/inch										KG			
					dm_t	D_{21}	D_{22}	l_1	l_3	l_{21}	l_{22}	l_{23}	l_{24}	l_{c1}		l_{c2} ²⁾		
CAT V	40	1	392.45CGB-40 12 086	7	12	19.5		86	50				66.95		40	37	2.5	
						.472	.768		3.386	1.969				2.636		1.575	1.457	
		1	392.45CGB-40 12 136	7	12	19.5		136	100					116.95		40	37	2.5
						.472	.768		5.354	3.937				4.604		1.575	1.457	
		2	392.45CGB-40 12 186	7	12	19.5	24.5	186	150	50	75			166.95		40	37	2.5
						.472	.768	.965	7.323	5.906	1.969	2.953			6.573		1.575	1.457
	40	3	392.45CGB-40 20 146	7	20	32		146	110					126.95	60	52	49	2.5
						.787	1.260		5.748	4.331				4.998	2.362	2.047	1.929	
		3	392.45CGB-40 20 226	7	20	32		226	190					206.95	60	52	49	4.9
						.787	1.260		8.898	7.480				8.148	2.362	2.047	1.929	
		1	S-392.45CGB-40 06 086	7	6	12		86	50					66.95		40	37	1
						.236	.472		3.386	1.969				2.636		1.575	1.457	
40	1	S-392.45CGB-40 08 086	7	8	14.5		86	50					66.95		40	37	1	
					.315	.571		3.386	1.969				2.636		1.575	1.457		
	1	S-392.45CGB-40 10 086	7	10	17		86	50					66.95		40	37	1	
					.394	.669		3.386	1.969				2.636		1.575	1.457		
	1	S-392.45CGB-40 10 136	7	10	17		136	100					116.95		40	37	1.1	
					.394	.669		5.354	3.937				4.604		1.575	1.457		
40	1	S-392.45CGB-40 16 111	7	16	26		111	75					91.95		50	47	1.2	
					.630	1.024		4.370	2.953				3.620		1.969	1.850		
40	1	S-392.45CGB-40 16 161	7	16	26		161	125					141.95		50	47	1.4	
					.630	1.024		6.339	4.921				5.589		1.969	1.850		

¹⁾ 0= No coolant, 1= Coolant through center, 6= Coolant through flange, 7= Coolant through center and through flange

²⁾ Min. clamping length



Individually balanced

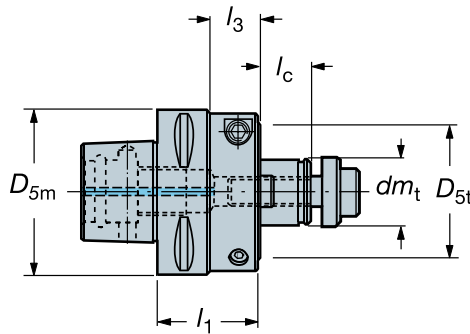
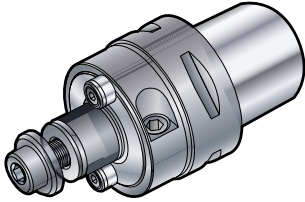


Non stocked items


Hydro-Grip®

High precision adapter for face mills and square shoulder face mills

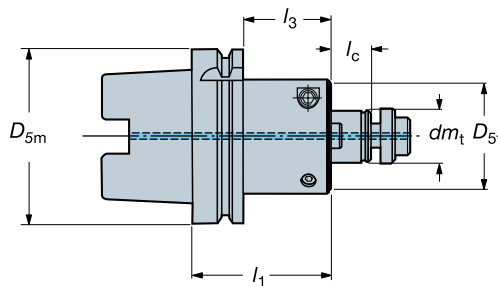
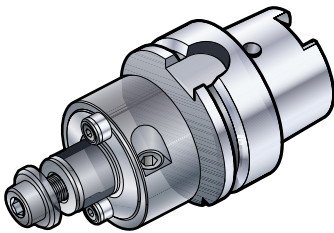
Coromant Capto®
391.05CG




l_1 = programming length

Coupling size	Ordering code	Coolant ¹⁾	Dimensions, mm						
			D_{5m}	dm_t	D_{5t}	l_c	l_1	l_3	
C5	C5-391.05CG-22 048	1	50	22	48	19	48	28	0.8
	C5-391.05CG-27 048	1	50	27	48	21	48	28	1.0
	C5-391.05CG-32 052	1	50	32	63	24	52	32	1.3
C6	C6-391.05CG-22 050	1	63	22	48	19	50	28	1.2
	C6-391.05CG-27 050	1	63	27	53	21	50	28	1.3
	C6-391.05CG-32 050	1	63	32	63	24	50		1.5
	C6-391.05CG-40 054	1	63	40	76	27	54	32	2.0
C8	C8-391.05CG-22 050	1	80	22	48	19	50	20	2.1
	C8-391.05CG-27 050	1	80	27	53	21	50	20	2.2
	C8-391.05CG-32 050	1	80	32	63	24	50	20	2.4
	C8-391.05CG-40 050	1	80	40	76	27	50	20	2.6

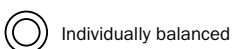
HSK form A/C
41005CG



l_1 = programming length

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

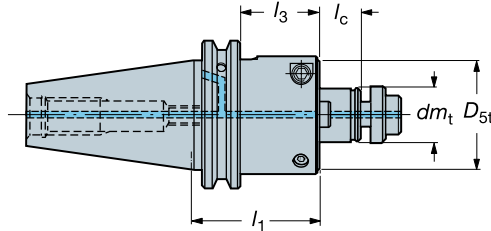
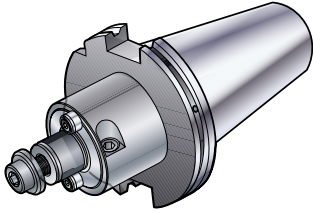
¹⁾ 0= No coolant, 1= Coolant through center, 6= Coolant through flange, 7= Coolant through center and through flange




Hydro-Grip®

High precision holder for face mills and square shoulder face mills

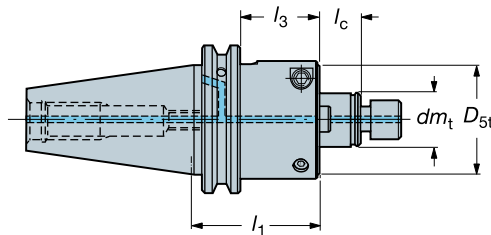
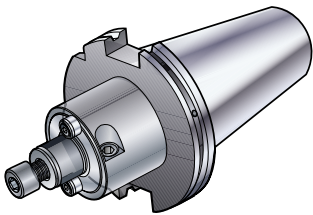
Metric pilot
A1B05CG / A2B05CG




l_1 = programming length

Spindle design	Taper	Ordering code	Coolant ¹⁾	Dimensions, mm					
				dm_t	D_{st}	l_c	l_1	l_3	
ISO 7388.1	40	A1B05CG-40 22 051	7	22	48	19	51	31.9	1.3
		A1B05CG-40 27 067	7	27	53	21	67	31.9	1.6
		A1B05CG-40 32 071	7	32	63	24	71	35.9	1.9
ISO 7388.1	50	A1B05CG-50 22 040	7	22	48	19	40	20.9	2.9
		A1B05CG-50 27 040	7	27	53	21	40	20.9	3.0
		A1B05CG-50 32 040	7	32	63	24	40	20.9	3.2
		A1B05CG-50 40 052	7	40	76	27	52	32.9	3.9
MAS-BT 403	40	A2B05CG-40 22 050	7	22	48	19	50	23	1.3
		A2B05CG-40 27 050	7	27	53	21	50	23	1.4
		A2B05CG-30 32 050	7	32	63	24	50		1.6
MAS-BT 403	50	A2B05CG-50 22 061	7	22	48	19	61	23	4.0
		A2B05CG-50 27 061	7	27	53	21	61	23	4.1
		A2B05CG-50 32 061	7	32	63	24	61	23	4.3
		A2B05CG-50 40 061	7	40	76	27	61	23	4.6


Inch pilot
AA3B05CG



l_1 = programming length

Spindle design	Taper	Ordering code	Coolant ¹⁾	Dimensions, inch					
				dm_t	D_{st}	l_c	l_1	l_3	
CAT V	40	AA3B05CG-40 19 066	7	.750	1.889	.748	2.598	1.216	3.1
		AA3B05CG-40 25 067	7	1.000	2.087	.748	2.638	1.256	3.3
		AA3B05CG-40 38 073	7	1.500	2.992	.984	2.874	1.492	5.3
CAT V	50	AA3B05CG-50 19 039	7	.750	1.889	.748	1.535	.785	6.4
		AA3B05CG-50 25 039	7	1.000	2.087	.748	1.535	.785	6.6
		AA3B05CG-50 38 067	7	1.500	2.992	.984	2.638	1.256	9.5

¹⁾ 0= No coolant, 1= Coolant through center, 6= Coolant through flange, 7= Coolant through center and through flange

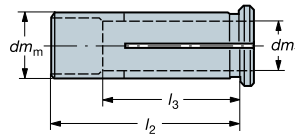
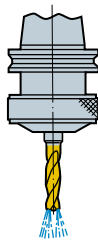
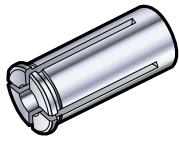
 Individually balanced

Accessories

Cylindrical collets for Hydro-Grip®

Metric bore/inch bore

Sealed
393.CGS



l_3 = clamping length required to achieve sealing effect.

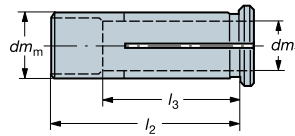
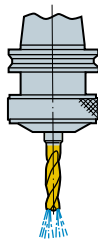
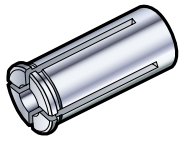
METRIC		Dimensions				INCH		Dimensions. mm (inch)						
Collet size	Ordering code	dm_t	dm_m	l_2	l_3	Collet size	Ordering code	dm_t	dm_m	l_2	l_3			
12	393.CGS-12 03 40	3	12	40	25	12	A393.CGS-12 02 40	3.175	(1/8)	12	40	26		
	393.CGS-12 04 40	4	12	40	25		A393.CGS-12 03 40	4.763	(3/16)	12	40	27		
	393.CGS-12 05 40	5	12	40	25		A393.CGS-12 04 40	6.35	(1/4)	12	40	28		
	393.CGS-12 06 40	6	12	40	32		A393.CGS-12 05 40	7.938	(5/16)	12	40	40		
	393.CGS-12 07 40	7	12	40	33		A393.CGS-12 06 40	9.525	(3/8)	12	40	40		
	393.CGS-12 08 40	8	12	40	33									
	393.CGS-12 09 40	9	12	40	33									
	393.CGS-12 10 40	10	12	40	36									
	20	393.CGS-20 03 52	3	20	50		24	20	A393.CGS-20 02 52	3.175	(1/8)	20	50	26
		393.CGS-20 04 52	4	20	50		24		A393.CGS-20 03 52	4.763	(3/16)	20	50	26
393.CGS-20 05 52		5	20	50	24	A393.CGS-20 04 52	6.35		(1/4)	20	50	26		
393.CGS-20 06 52		6	20	50	32	A393.CGS-20 05 52	7.938		(5/16)	20	50	40		
393.CGS-20 07 52		7	20	50	33	A393.CGS-20 06 52	9.525		(3/8)	20	50	40		
393.CGS-20 08 52		8	20	50	33	A393.CGS-20 07 52	11.11		(7/16)	20	50	40		
393.CGS-20 09 52		9	20	50	34	A393.CGS-20 08 52	12.7		(1/2)	20	50	40		
393.CGS-20 10 52		10	20	50	36	A393.CGS-20 09 52	14.28		(9/16)	20	50	40		
393.CGS-20 12 52		12	20	50	36	A393.CGS-20 10 52	15.87		(5/8)	20	50	45		
393.CGS-20 14 52		14	20	50	41									
25	393.CGS-25 03 56	3	25	56	25	25	A393.CGS-25 02 56	3.175	(1/8)	25	56	25		
	393.CGS-25 04 56	4	25	56	25		A393.CGS-25 03 56	4.763	(3/16)	25	56	25		
	393.CGS-25 05 56	5	25	56	25		A393.CGS-25 04 56	6.35	(1/4)	25	56	33		
	393.CGS-25 06 56	6	25	56	33		A393.CGS-25 05 56	7.938	(5/16)	25	56	33		
	393.CGS-25 07 56	7	25	56	33		A393.CGS-25 06 56	9.525	(3/8)	25	56	34		
	393.CGS-25 08 56	8	25	56	33		A393.CGS-25 07 56	11.11	(7/16)	25	56	36		
	393.CGS-25 09 56	9	25	56	34		A393.CGS-25 08 56	12.7	(1/2)	25	56	42		
	393.CGS-25 10 56	10	25	56	36		A393.CGS-25 09 56	14.28	(9/16)	25	56	43		
	393.CGS-25 12 56	12	25	56	42		A393.CGS-25 10 56	15.87	(5/8)	25	56	44		
	393.CGS-25 14 56	14	25	56	43		A393.CGS-25 11 56	17.46	(11/16)	25	56	45		
32	393.CGS-32 07 60	7	32	60	33	32	A393.CGS-32 03 60	4.763	(3/16)	32	60	26		
	393.CGS-32 08 60	8	32	60	33		A393.CGS-32 04 60	6.35	(1/4)	32	60	26		
	393.CGS-32 09 60	9	32	60	33		A393.CGS-32 05 60	7.938	(5/16)	32	60	40		
	393.CGS-32 10 60	10	32	60	36		A393.CGS-32 06 60	9.525	(3/8)	32	60	40		
	393.CGS-32 12 60	12	32	60	41		A393.CGS-32 07 60	11.11	(7/16)	32	60	40		
	393.CGS-32 14 60	14	32	60	42		A393.CGS-32 08 60	12.7	(1/2)	32	60	40		
	393.CGS-32 16 60	16	32	60	44		A393.CGS-32 09 60	14.28	(9/16)	32	60	40		
	393.CGS-32 18 60	18	32	60	45		A393.CGS-32 10 60	15.87	(5/8)	32	60	40		
	393.CGS-32 20 60	20	32	60	46		A393.CGS-32 11 60	17.46	(11/16)	32	60	40		
	393.CGS-32 25 60	25	32	60	47		A393.CGS-32 12 60	19.05	(3/4)	32	60	40		
						A393.CGS-32 13 60	20.63	(13/16)	32	60	40			
						A393.CGS-32 14 60	22.22	(7/8)	32	60	40			
						A393.CGS-32 15 60	23.81	(15/16)	32	60	40			
						A393.CGS-32 16 60	25.4	(1)	32	60	45			

Cylindrical collets for Hydro-Grip®

Inch bore

Sealed

A393.CGS



l_3 = clamping length required to achieve sealing effect.

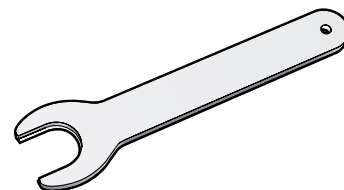
INCH

Dimensions

Collet size	Ordering code	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
	26	A393.CGS-26 02 56	.125 (1/8)	1.000	2.205
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
A393.CGS-26 12 56		.750 (3/4)	1.000	2.205	1.732
31		A393.CGS-31 03 60	.187 (3/16)	1.250	2.362
	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
	A393.CGS-31 12 60	.750 (3/4)	1.250	2.362	1.575
	A393.CGS-31 16 60	1.000 (1)	1.250	2.362	1.772

Extractor for cylindrical collets

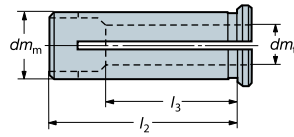
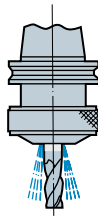
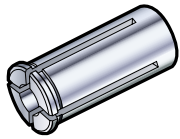
Extractor	For collet size	
	Metric	Inch
5680 061-01	12	13
5680 061-02	16	15
5680 061-03	20	19
5680 061-04	25	26
5680 061-05	32	31



Cylindrical collets for Hydro-Grip®

Metric bore

Slitted
393.CG



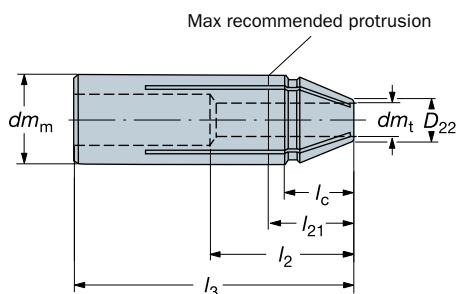
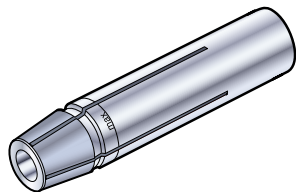
METRIC

Dimensions

Collet size	Ordering code	dm_h	dm_m	l_2	l
12	393.CG-12 03 40	3	12	40	25
	393.CG-12 04 40	4	12	40	25
	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
	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
	393.CG-20 04 52	4	20	50	24
	393.CG-20 05 52	5	20	50	24
	393.CG-20 06 52	6	20	50	32
	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
	393.CG-25 04 56	4	25	56	25
	393.CG-25 05 56	5	25	56	25
	393.CG-25 06 56	6	25	56	33
	393.CG-25 07 56	7	25	56	33
	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
	393.CG-32 07 60	7	32	60	40
	393.CG-32 08 60	8	32	60	40
	393.CG-32 09 60	9	32	60	40
	393.CG-32 10 60	10	32	60	40
	393.CG-32 12 60	12	32	60	40
	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	

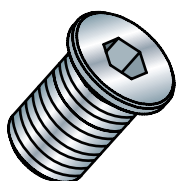
Pencil collets for Hydro-Grip®

A393.CGP
393.CGP



Coupling size	Ordering code	Dimensions							USA
		dm_m	dm_t	D_{22}	l_c	l_2	l_3	l_{21}	
19	INCH								
	A393.CGP-19 04 72	.750	.250	.354	.669	1.457	2.835	.827	0.22
	A393.CGP-19 05 72	.750	.312	.433	.669	1.457	2.835	.827	0.22
	A393.CGP-19 06 72	.750	.375	.512	.669	1.614	2.835	.827	0.22
	A393.CGP-19 08 72	.750	.500	.591	.669	1.614	2.835	.827	0.22
20	METRIC								
	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

Adjustment screw

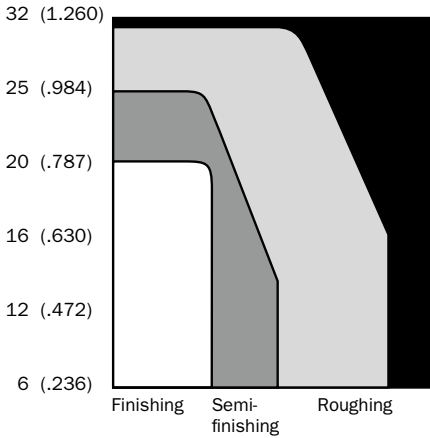


Ordering code	For type		
	Coromant Capto®	Solid holder	HSK holder
5512 100-01	(S-)C4-391.CGA	S-392.272CGC-xx 12	S-392.410CGC- xxx 12
	(S-)Cx-391.CGC-12 xxx	S-392.272CGC-xx 16	S-392.410CGC- xxx 16
	S-Cx-391.CGC-16 xxx	S-392.55CGC-xx 12	
		S-392.55CGC-xx 16	
		S-392.45CGC-xx 12	
5512 100-02	(S-)C5-391.CGA	(S-)392.272CG	(S-)392.410CGA
	(S-)C6-391.CGA	(S-)392.55CG	S-392.410CGC- xxx 20
	(S-)C8-391.CGA	(S-)392.45CG	S-392.410CGC- xxx 25
	(S-)Cx-391.CGC-20 xxx	S-392.272CGC-xx 20	
		S-392.272CGC-xx 25	
		S-392.55CGC-xx 20	
		S-392.55CGC-xx 25	
	(S-)Cx-391.CGC-25 xxx	S-392.45CGC-xx 20	
S-392.45CGC-xx 25			
5512 100-03	Cx-391.CGD	392.45CGD	392.410CGD
		392.55CGD	
		392.272CGD	

Milling with cylindrical shanks

The Hydro-Grip family covers all applications from finishing to heavy roughing, between 6-32 mm (.236-1.260 inch) bore diameter.

Chuck bore diameter mm (inch)



- Hydro-Grip® Pencil
- Hydro-Grip® Slender
- Hydro-Grip® Short
- Hydro-Grip® HD

Heavy milling performance

Tool: CoroMill Plura 1630
 Material: 02.2 (low-alloy steel)
 Working engagement: 20 mm (.787 inch)

Hydro-Grip® HD

v_c m/min, 100 v_c ft/min, 330
 n (rpm), 1600 n (rpm), 1600
 v_f (mm/min), 640 v_f (inch/min), 25.197
 f_z (mm/tooth), 0.1 f_z (inch/tooth), .004
 a_p (mm), **18 (max)** a_p (inch), **.709 (max)**
 a_e (mm), 20 a_e (inch), .787

Competitor solution

v_c m/min, 100 v_c ft/min, 330
 n (rpm), 1600 n (rpm), 1600
 v_f (mm/min), 640 v_f (inch/min), 25.197
 f_z (mm/tooth), 0.1 f_z (inch/tooth), .004
 a_p (mm), **9 (max)** a_p (inch), **.354 (max)**
 a_e (mm), 20 a_e (inch), .787

Result:

Hydro-Grip HD enabled the tool to machine to a depth of 18 mm (run-out 3 μ m) (.709 inch (run-out .0001 inch)) without vibration and retain excellent surface quality.

The tool clamped with the competitor adapter experienced vibration at 9 mm (run-out 7 μ m) (.354 inch (run-out .0003 inch)).

Your local Sandvik Coromant distributor:

For more information please check our catalog supplement or visit www.sandvik.coromant.com/us



Torque wrench

Ordering code: 5680 099-01

Always use a torque wrench for best chuck performance and repeatability.

- Quickly tightens all Hydro-Grip chucks to the correct torque, guarding against tool damage.

- Achieves recommended torque levels for the most secure performance:

10 Nm (7.4 ft-lbs) for Hydro-Grip HD

6 Nm (4.4 ft-lbs) for all others.

The universal tool-holding solution

Quality component surfaces

Each chuck individually balanced

Wide application area

Rigid clamping enhances tool life

Exact torque levels achieved quickly

Active machining time prolonged

1-800-SANDVIK (1-800-726-3845)
www.sandvik.coromant.com/us
 E-mail: us.coromant@sandvik.com

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Your success in focus