

Quick Change High Precision Tools and Holders for **MAXIMUM** MACHINING PERFORMANCE

CAMFIX • **HSK**



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Groove-Turn Tools

Solid-Carbide & MM Endmills

Milling Tools

Hole Making Tools

Turning & Threading Tools

Tooling Systems

New Products Catalog



CAMFIX ISO 26623-1 STATIONARY TOOLS



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HSK DIN 69893 STATIONARY TOOLS



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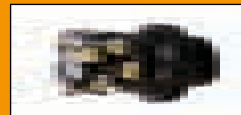
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ISCAR Tools and Holders with CAMFIX (ISO 26623-1) and HSK (DIN 69893 Form A) Shanks

In this catalog ISCAR presents its range of tools and holders featuring CAMFIX and HSK A shanks. These tools are widely used for the most productive machining operations on the following machine tool types:

- Lathes with either manual or automatic tool changers
- Multitask machining centers
- Vertical turn-mill machines

Both quick change adaptation systems include integral shank tools and a wide variety of stationary and rotating machine turret and spindle adapters, extensions, reducers and toolholders.

The CAMFIX system enables the assembly of modular tool configurations, eliminating the need for specially tailored expensive tools.

ISCAR provides a very extensive line of blade and adapter toolholders with CAMFIX and HSK A shanks, which enable economical grooving, parting and turning operations.



ISCAR Tools and Holders with **CAMFIX** Shanks
C3 C4 C5 C6 C8 (ISO 26623-1)

ISCAR Toolholders with CAMFIX Adaptation for Multitasking and Lathe Machines

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Turning Tools

		Shanks for Parting, Grooving, Turning
		Shanks for Boring Bars
		Shanks for Square Shank Tools

Adapter Holders

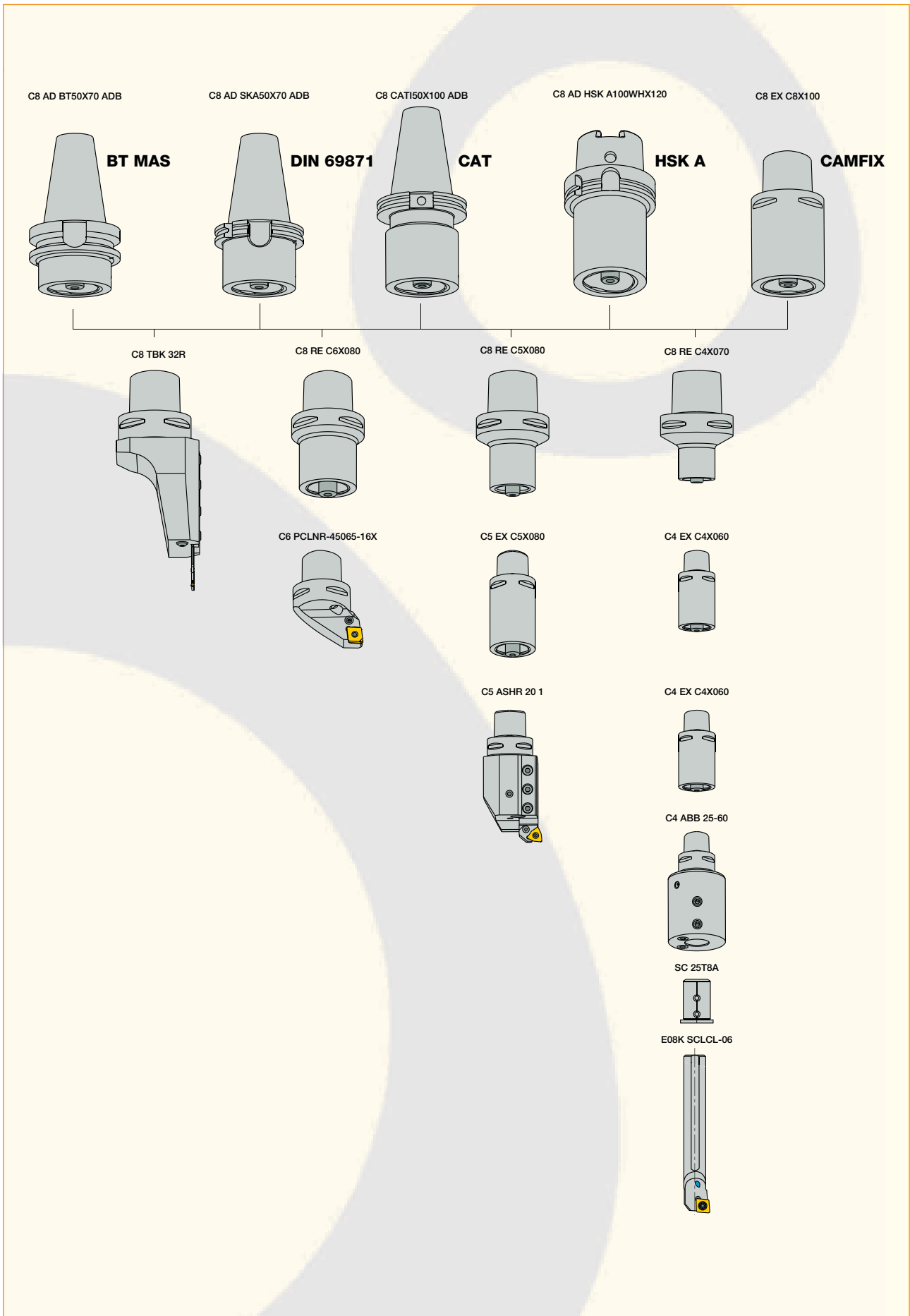
for Parting, Grooving, Turning and Facing



Integral ISOTURN + GROOVE-TURN Tools



CAMFIX STATIONARY MODULAR SYSTEM



MODULAR-GRIP Combined with **JETHPLINE**

**MODULAR-GRIP Adapters for High Pressure Coolant
Makes the Difference**

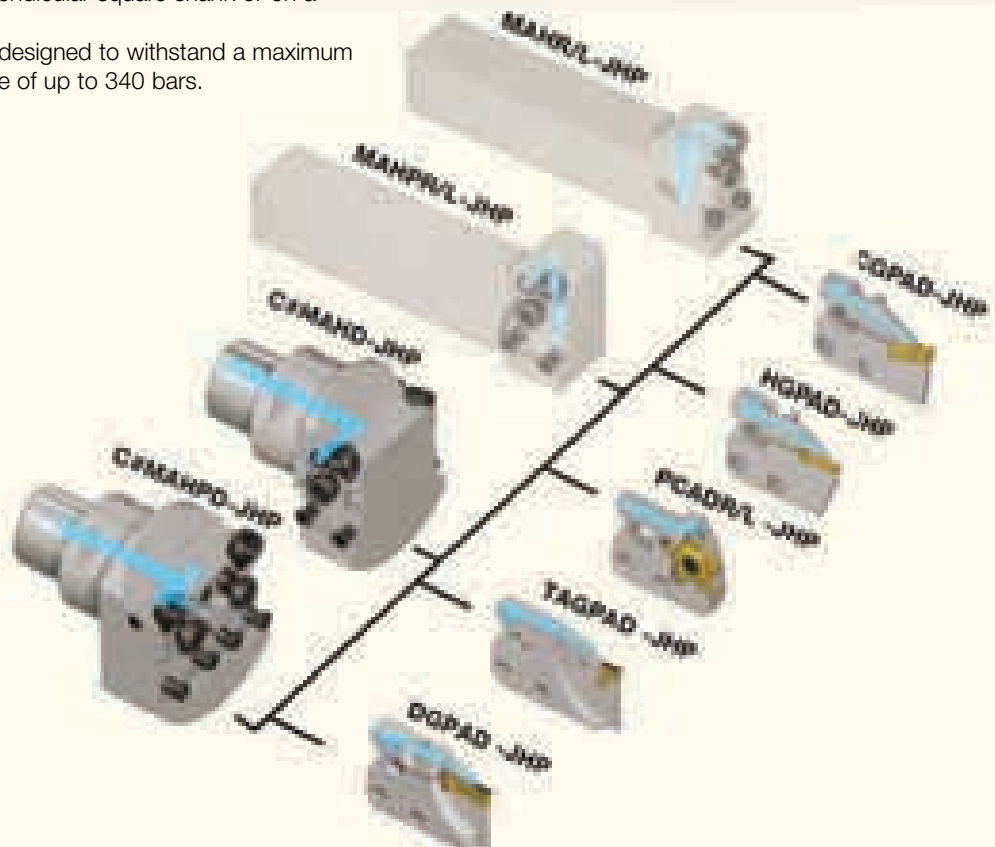
Quick Change
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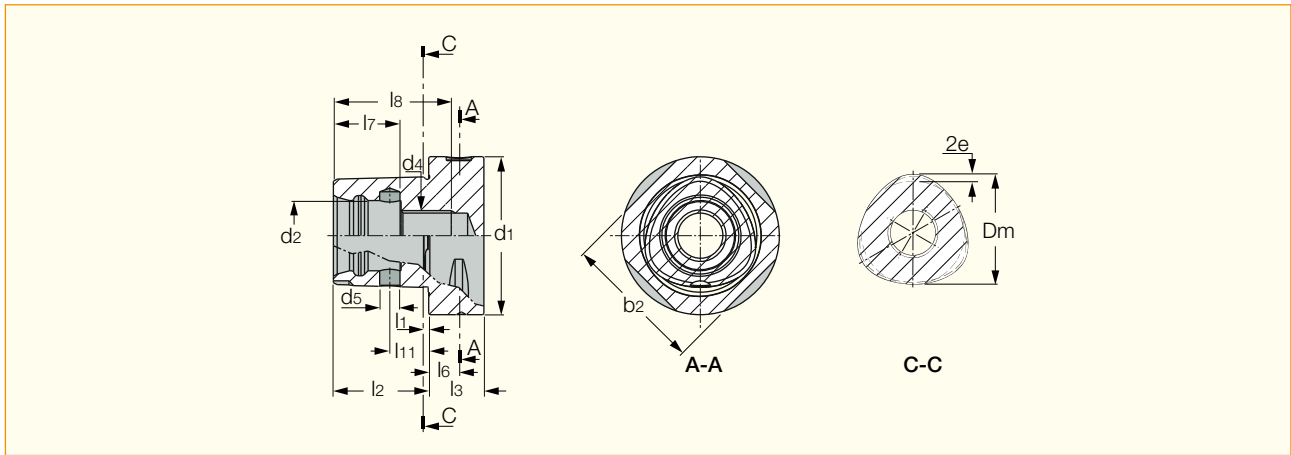


The **MODULAR-GRIP** line includes parallel and perpendicular 20, 25 and 32 mm square shanks and 4, 5 and 6 CAMFIX shank sizes which can carry HELI-GRIP, CUT-GRIP and PENTACUT adapters.

- Reduces tooling cost and stock, as each **JHP MODULAR-GRIP** adapter can be used on **JHP** straight or perpendicular square shank or on a CAMFIX shank.
- The tools were designed to withstand a maximum coolant pressure of up to 340 bars.

- Standard **MODULAR-GRIP** adapters can be used with the **JHP** toolholders when internal high pressure coolant option is not required.

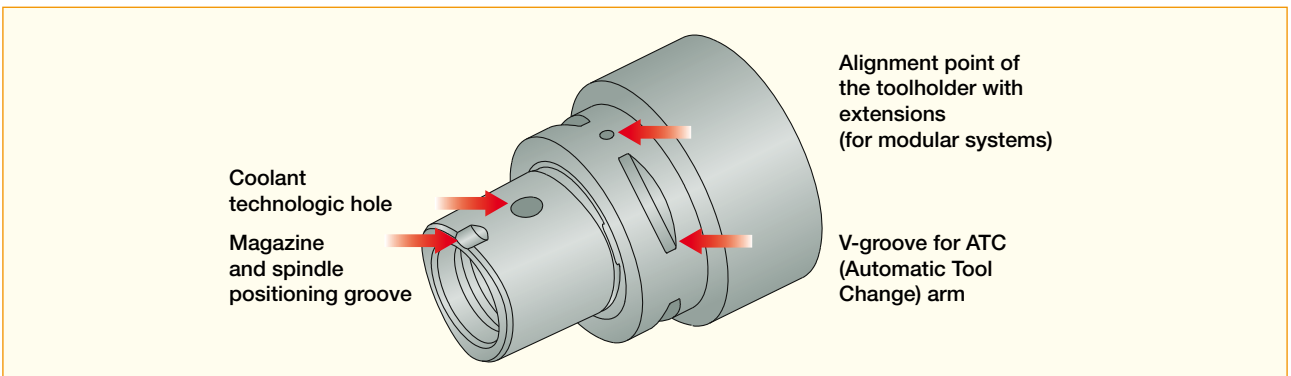




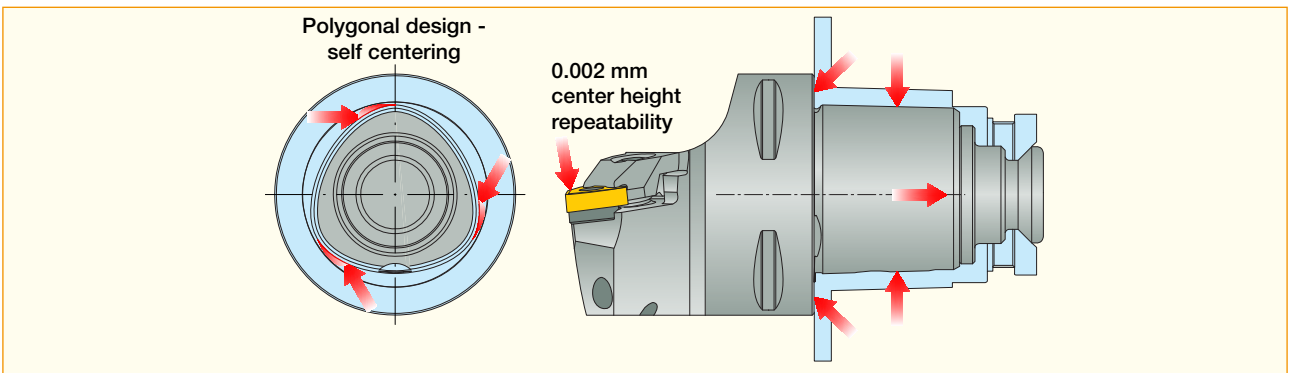
CAMFIX	b2	d1 ±0.1	d2	d4	d5 ±0.1	Dm	e	l1	l2 ±0.1	l3 min	l6 ±0.15	l7 ±0.15	l8 min	l11 ±0.1
C3	28,3	32	15	M12x1.5	3,6	22	0,7	2,5	19	15	6	13	25	8
C4	35,3	40	18	M14x1.5	4,6	28	0,9	2,5	24	20	8	15	30	11,5
C5	44,4	50	21	M16x1.5	6,1	35	1,12	3	30	20	10	20	37	14
C6	55,8	63	28	M20x2	8,1	44	1,4	3	38	22	12	27	47	15,5
C8	71,1	80	32	M20x2	9,1	55	2	3	48	30	12	28	48	25
C8X	88,7	100	32	M20x2	9,1	55	2	3	48	32	16	28	48	25
C10	88,3	100	43	M24x2	12	72	2.8	3	60	36	16	40	70	26.5

Standard Quick Change Shanks Features

- **Symmetrical design:** Due to the symmetrical design, the torque load is distributed on the polygon, providing a self-centering effect.
- **Rigidity:** The CAMFIX clamping mechanism is extremely rigid against bending forces.
- **Accuracy:** The taper and face contact ensure high repeatability within 2 microns, when operated with an automatic tool changer.



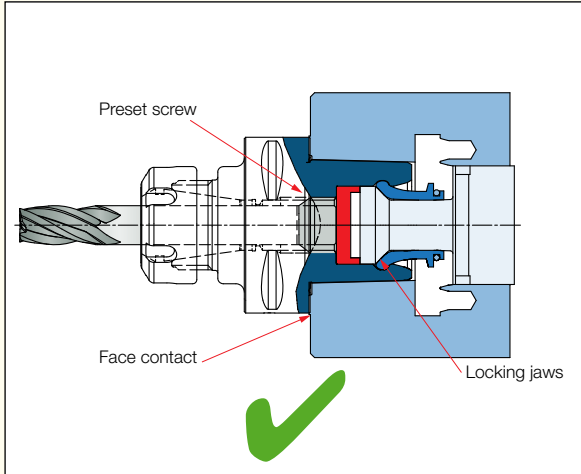
CAMFIX Features for Turning Applications



CAMFIX Chucking Instructions

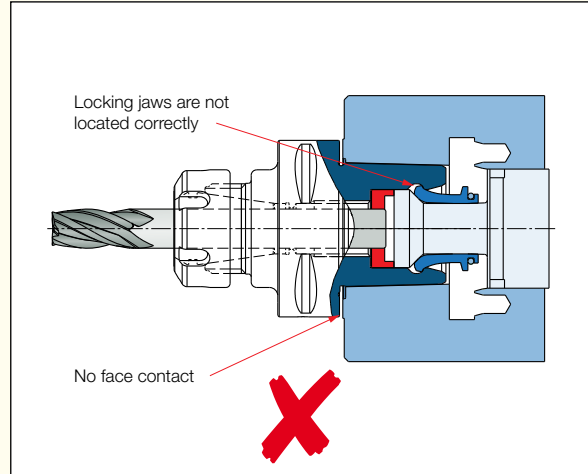
Please be careful when clamping cylindrical shank cutting tools into CAMFIX holders such as ER collet chucks or EM holders. In cases when the

diameter of the shank is smaller than the CAMFIX through hole, it may penetrate into the drawbar mechanism area and prevent proper clamping.



Correct clamping

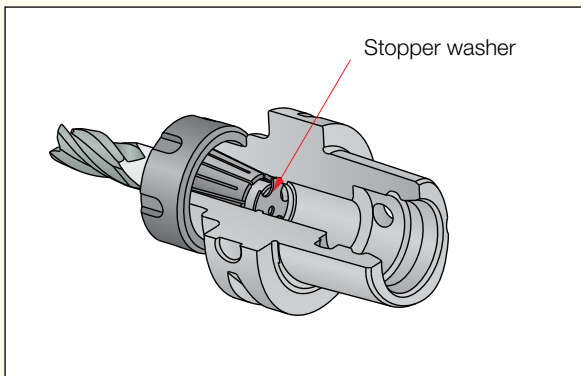
Use a preset screw to prevent the cutter shank from entering into the clamping mechanism zone, so the drawbar locking jaws can function correctly.



Wrong clamping

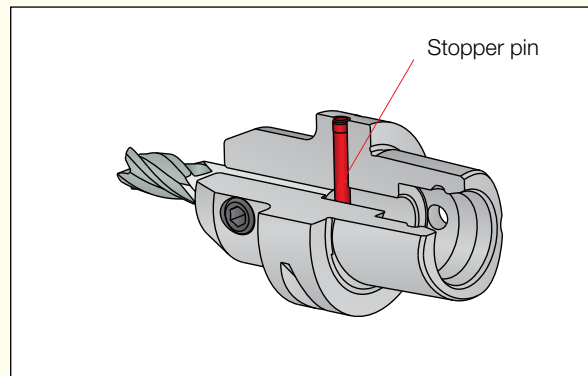
The cutter shank enters into the locking mechanism zone, preventing the drawbar locking jaws to reach their correct clamping position.

In order to prevent too deep insertion of the cutting tools, the short length ER16, 20, 25, 32, 40 collet chucks and EM 6-50 mm endmill holders are equipped with permanent stoppers.



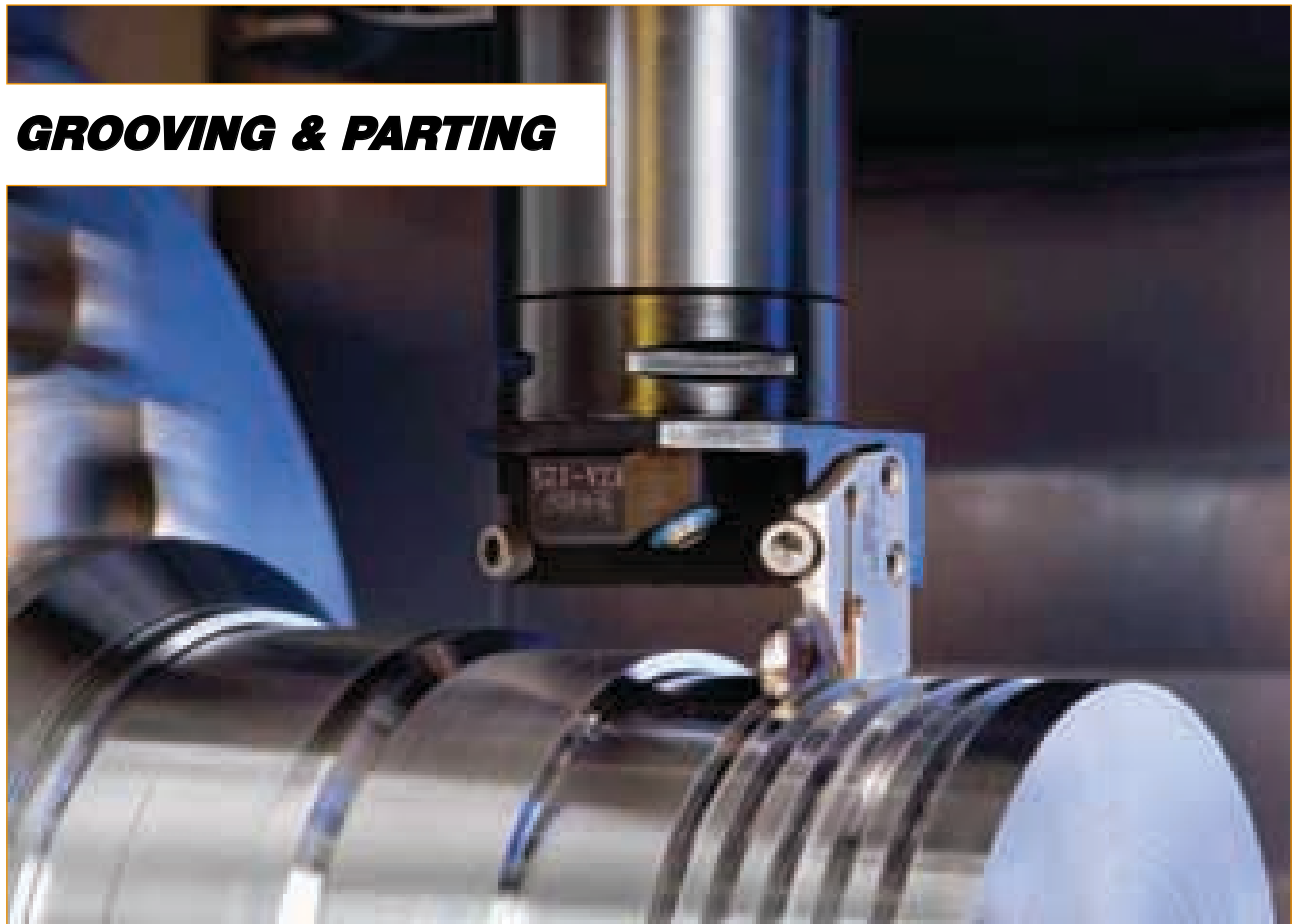
ER chucks

A special washer is installed as a permanent stopper.



EM holders

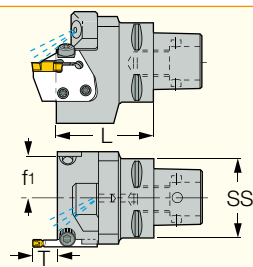
A special pin is installed as a permanent stopper.



GROOVING & PARTING

C#-MAHD

Holders for Parting, Grooving, Turning and Facing Adapters with CAMFIX Exchangeable Shanks



Right-hand shown • T - See specific adapter dimensions

Designation	SS	L	f ₁
C3 MAHD	32	50.00	18.5
C4 MAHD	40	46.50	22.1
C5 MAHD	50	47.00	23.0
C6 MAHD	63	50.00	29.0
C8 MAHD	80	60.00	37.5

For tools, see pages: CGPAD (65) • DGAD-B-D (69) • DGAD/HGAD (68) • HFPAD-3 (66) • HFPAD-4 (66) • HFPAD-5 (67) • HFPAD-6 (67) • HGPAD (64) • PCADR/L (64) • SCLCR-PAD (74) • SDJCR-PAD (73) • SVJCR-PAD (73) • SWAPR-PAD (74) • TGAD (69) • TGPAD (65).

Spare Parts



Designation	Lower Locking Screw	Key	Side Locking Screw	Upper Locking Screw	Key 1	Sealing Screw	Coolant Nozzle	Nozzle	Nozzle Screw
C#-MAHD	SR M5-04451	T-20/5	SR 14-519 ⁽²⁾	SR M6X20-XT ⁽¹⁾	HW 5.0	SR M6X6DIN551 14H/22H ⁽³⁾	EZ 125	EZA 125	SR 76-1022

⁽¹⁾ For CGPAD, HGPAD, TGPAD and HFPAD adapters. Supplied with the tools.

⁽²⁾ For DGAD, HGAD and PCADR/L adapters. Supplied in the attached plastic bag.

⁽³⁾ Used to prevent chips from entering the upper locking screw hole.

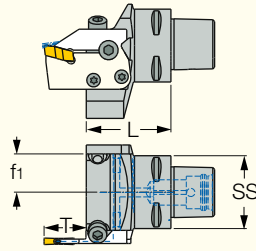
MODULAR-GRIP • JETLINE • CAMFIX

C#-MAHD-JHP

Holders with CAMFIX Exchangeable Shanks and High Pressure Coolant Channels for MODULAR-GRIP Adapters



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Right-hand shown • T - See specific adapter dimensions

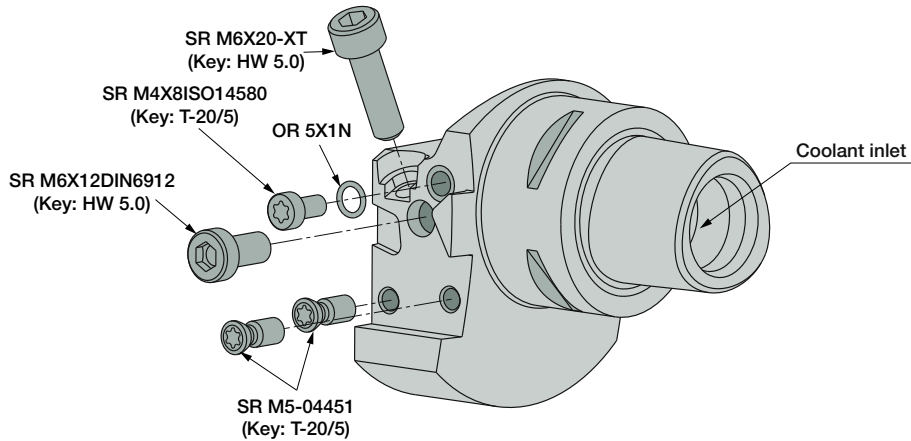
Designation	SS	L	f ₁
C3 MAHD-JHP	32	45.00	18.5
C4 MAHD-JHP	40	46.50	21.0
C5 MAHD-JHP	50	47.00	26.0
C6 MAHD-JHP	63	50.00	32.5

For tools, see pages: CGPAD-JHP (70) • HGPAD-JHP (71) • PCADR/L-JHP (70) • CGPAD (65) • DGAD-B-D (69) • DGAD/HGAD (68) • DGPAD-JHP (71) • HFPAD-3 (66) • HFPAD-4 (66) • HFPAD-5 (67) • HFPAD-6 (67) • HGPAD (64) • PCADR/L (64) • SCLCR-PAD (74) • SDJCR-PAD (73) • SVJCR-PAD (73) • SWAPR-PAD (74) • TAGPAD-JHP (72) • TGAD (69) • TGPAD (65).

Spare Parts



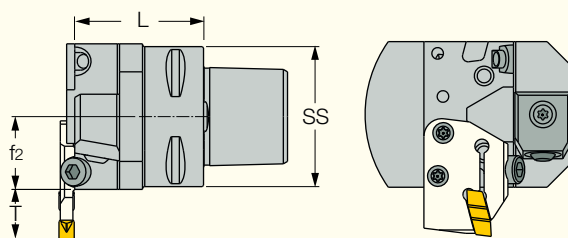
Designation	Screw	Key	Screw 1	Screw 2	Key 1	O-Ring	Screw 3
C#-MAHD-JHP	SR M5-04451	T-20/5	SR M6X12DIN6912	SR M6X20-XT	HW 5.0	OR 5X1N	SR M4X8ISO14580



MODULAR-GRIP • CAMFIX

C#-MAHPD

Perpendicular Holders for Parting, Grooving, Turning and Facing Adapters with CAMFIX Exchangeable Shanks



T= See specific adapter dimensions

Designation	SS	L	f ₂
C4 MAHPD	40	46.00	25.00
C5 MAHPD	50	46.00	26.00
C6 MAHPD	63	47.00	33.00
C8 MAHPD	80	42.00	42.00

For tools, see pages: CGPAD (65) • DGAD-B-D (69) • DGAD/HGAD (68) • HFPAD-3 (66) • HFPAD-4 (66) • HFPAD-5 (67) • HFPAD-6 (67) • HGPAD (64) • PCADR/L (64) • SCLCR-PAD (74) • SDJCR-PAD (73) • SVJCR-PAD (73) • SWAPR-PAD (74) • TGAD (69) • TGPAD (65).

Spare Parts



Designation	Lower Locking Screw	Key	Side Locking Screw	Upper Locking Screw	Key 1	Sealing Screw	Coolant Nozzle	Nozzle Screw	Nozzle	Pipe
C4 MAHPD	SR M5-04451	T-20/5	SR 14-519 ⁽²⁾	SR M6X20-XT ⁽¹⁾	HW 5.0	SR M6X6DIN551 14H/22H ⁽³⁾	EZ 125	SR 76-1022	EZA-21414	
C5 MAHPD	SR M5-04451	T-20/5	SR 14-519 ⁽²⁾	SR M6X20-XT ⁽¹⁾	HW 5.0	SR M6X6DIN551 14H/22H ⁽³⁾	EZ 125	SR 76-1022	EZA-21414	
C6 MAHPD	SR M5-04451	T-20/5	SR 14-519 ⁽²⁾	SR M6X20-XT ⁽¹⁾	HW 5.0	SR M6X6DIN551 14H/22H ⁽³⁾	EZ 125	SR 76-1022	EZA-21414	
C8 MAHPD	SR M5-04451	T-20/5	SR 14-519 ⁽²⁾	SR M6X20-XT ⁽¹⁾	HW 5.0	SR M6X6DIN551 14H/22H ⁽³⁾	EZ 125			EZP 5

⁽¹⁾ For CGPAD, HGPAD, TGPAD and HFPAD adapters. Supplied with the tools.

⁽²⁾ For DGAD, HGAD and PCADR/L adapters. Supplied in the attached plastic bag.

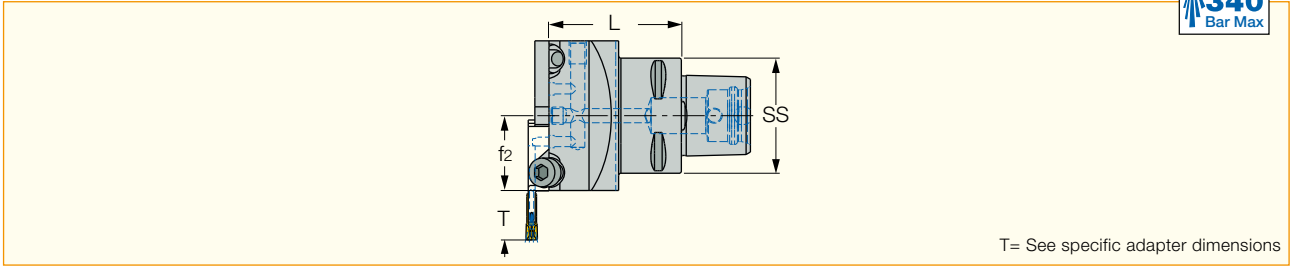
⁽³⁾ Used to prevent chips from entering the upper locking screw hole.

MODULAR-GRIP • JET HPLINE • CAMFIX

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C#-MAHPD-JHP

Perpendicular Holders for Parting, Grooving, Turning and Facing Adapters with CAMFIX Exchangeable Shanks



Designation	SS	L	f ₂
C3 MAHPD-JHP	32	40.00	26.00
C4 MAHPD-JHP	40	46.00	26.00
C5 MAHPD-JHP	50	46.00	26.00
C6 MAHPD-JHP	63	46.00	33.00

For tools, see pages: CGPAD-JHP (70) • HGPAD-JHP (71) • PCADR/L-JHP (70) • CGPAD (65) • DGAD-B-D (69) • DGAD/HGAD (68) • DGPAD-JHP (71) • HFPAD-3 (66) • HFPAD-4 (66) • HFPAD-5 (67) • HFPAD-6 (67) • HGPAD (64) • PCADR/L (64) • SCLCR-PAD (74) • SDJCR-PAD (73) • SVJCR-PAD (73) • SWAPR-PAD (74) • TAGPAD-JHP (72) • TGAD (69) • TGPAD (65).

Spare Parts

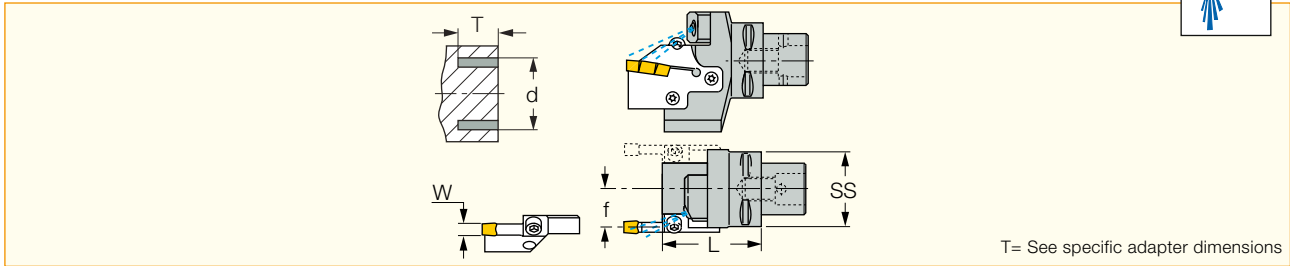


Designation	Screw	Key	Screw 1	Screw 2	Key 1	O-Ring	Screw 3
C#-MAHPD-JHP	SR M5-04451	T-20/5	SR M6X12DIN6912	SR M6X20-XT	HW 5.0	OR 5X1N	SR M4X8ISO14580

CUT-GRIP • CAMFIX

C#-GHAD-8

Holders for Grooving, Turning and Facing Adapters with CAMFIX Exchangeable Shanks



Designation	SS	L	f	W	d Range	T Range
C5 GHAD-8	50	65.00	26.00	8.00	80-510	15-25
C6 GHAD-8	63	65.00	32.50	8.00	80-510	15-25

For tools, see pages: GADR/L-8 (75) • GAFG-R/L-8 (76) • PCADR/L 34N-RE (76).

Spare Parts

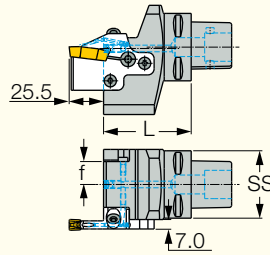


Designation	Screw	Key	Screw 1	Key 1	Screw 2	Nozzle Body	Coolant Nozzle
C#-GHAD-8	SR 14-519	T-20/5	SR M6X25DIN912 12.9U	HW 5.0	SR 76-1022	EZA 125	EZ 125

CUT-GRIP • JET-HPLINE • CAMFIX

C#-GHAD-8-JHP

Holders for Grooving and Turning with High Pressure
Coolant Channels and CAMFIX Exchangeable Shanks



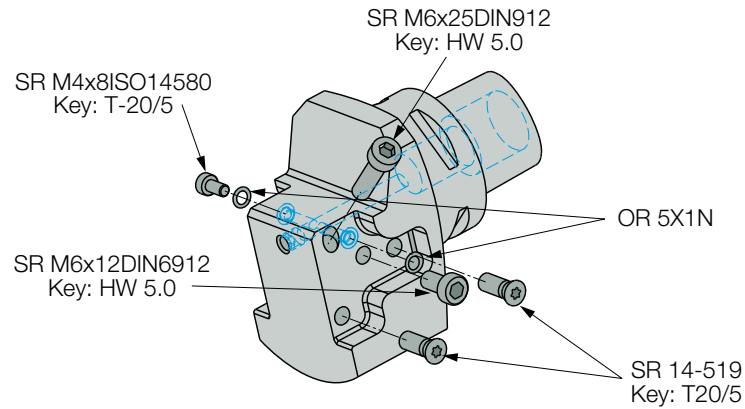
Designation	SS	L	f	W
C5 GHAD-8-JHP	50	65.00	17.00	8.00
C6 GHAD-8-JHP	63	65.00	23.50	8.00
C8 GHAD-8-JHP	80	74.00	38.50	8.00

For tools, see pages: GADR/L-JHP (75).

Spare Parts



Designation	Screw	Key	Screw 1	Key 1	Screw 2	O-Ring	Screw 3
C# GHAD-8-JHP	SR 14-519	T-20/5	SR M6X25DIN912 12.9U	HW 5.0	SR M6X12DIN6912	OR 5X1N	SR M4X8ISO14580

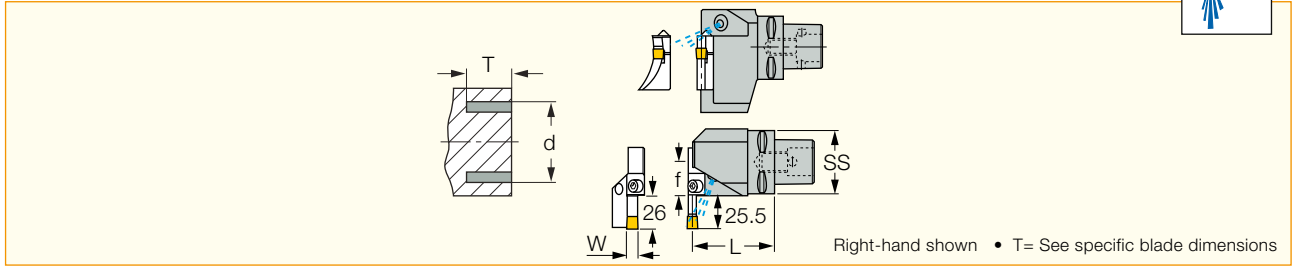


C#-GHAPR/L-8

Perpendicular Holders for Grooving, Turning and Facing Adapters with CAMFIX Exchangeable Shanks



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Designation	SS	L	f	W	d Range	T Range
C5 GHAPR/L-8	50	64.00	26.00	8.00	80-510	15-25
C6 GHAPR/L-8	63	75.00	33.00	8.00	80-510	15-25

For tools, see pages: GADR/L-8 (75) • GAFG-R/L-8 (76) • PCADR/L 34N-RE (76).

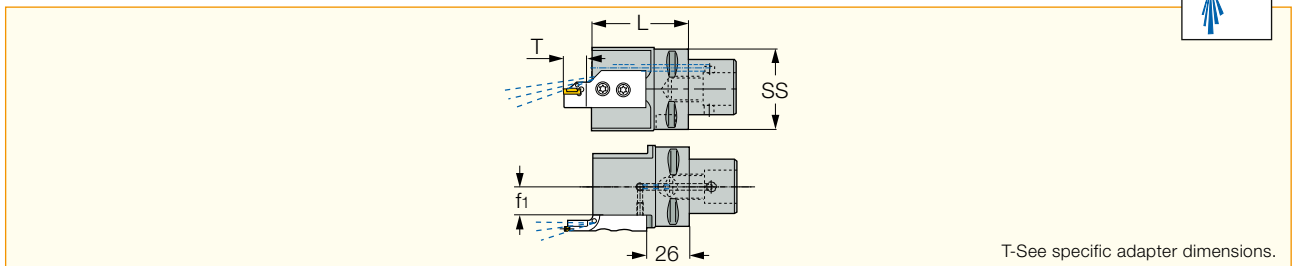
Spare Parts



Designation	Screw	Key	Screw 1	Key 1	Coolant Nozzle
C#-GHAPR/L-8	SR 14-519	T-20/5	SR M6X25DIN912 12.9U	HW 5.0	EZ 125

C#-HAD

Holders for Internal Facing Adapters with CAMFIX Exchangeable Tapered Shanks



Designation	SS	L	f ₁
C4 HAD	40	60.00	18.0
C5 HAD	50	60.00	18.0
C6 HAD	63	60.00	22.0

For tools, see pages: HFAER/L-4 (89) • HFAER/L-5T, 6T (88) • HFAIR/L-4 (90) • HFAIR/L-DG (91) • HGAER/L-3 (89) • HGAIER/L-3 (88).

Spare Parts

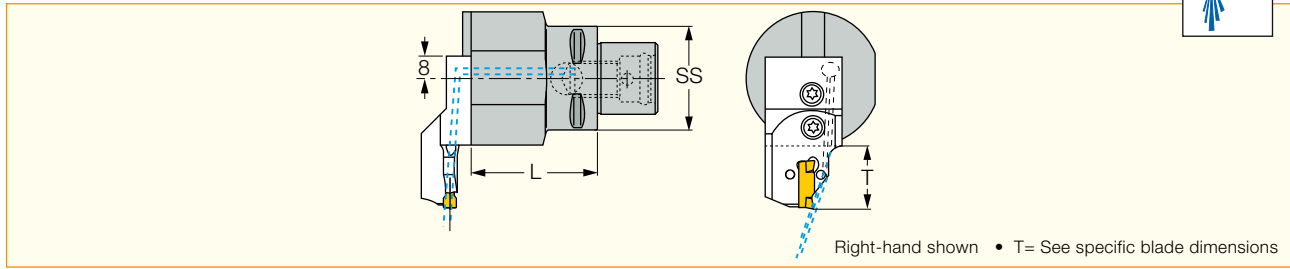


Designation	Side Locking Screw	Key	Screw	Key 1
C#-HAD	SR 14-519	T-20/3	SR M4X6DIN912	HW 3.0

CAMFIX

C#-HAPR/L

Perpendicular Holders for Internal Facing Adapters with CAMFIX Exchangeable Shanks



Designation	SS	L
C4 HAPR/L	40	50.00
C6 HAPR/L	63	50.00

For tools, see pages: HFAER/L-4 (89) • HFAER/L-5T, 6T (88) • HFAIR/L-4 (90) • HFAIR/L-DG (91) • HGAER/L-3 (89) • HGAIR/L-3 (88).

Spare Parts

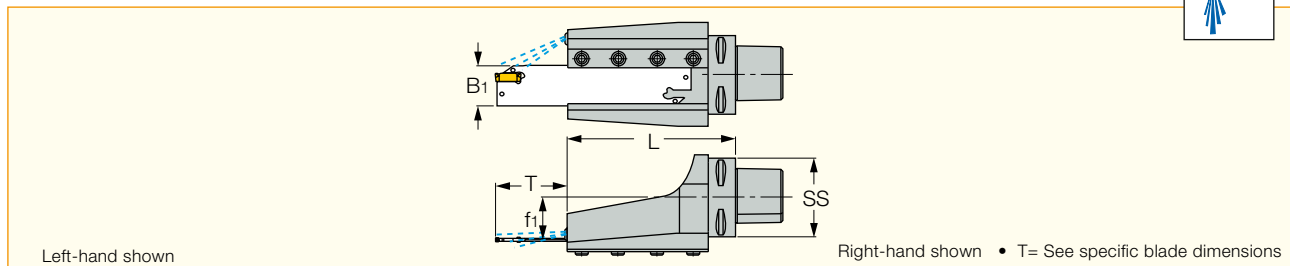


Designation	Screw	Key
C#-HAPR/L	SR 14-519	T-20/3

TOOL BLOCKS • CAMFIX

C#-TBK-R/L

Blocks with CAMFIX Exchangeable Shanks for Parting and Grooving Blades



Designation	SS	f ₁	L	B ₁
C6 TBK-32R/L	63	32.0	138.00	32.0
C8 TBK-32R	80	40.5	147.00	32.0
C8 TBK-52R	80	40.5	161.00	52.0

For tools, see pages: CGHN-DG (80) • CGHR/L-P8DG (77) • DGFH (78) • DGFHR/L (79) • DGFHR/L-B-D..(R/L) (80) • HGFH (79) • PCHBR/L (81) • TGFH/R/L (82) • TGFHR/L (84) • TNFFA-IQ (86) • TNFFH-IQ (85).

Spare Parts

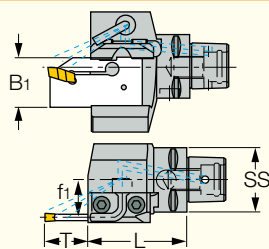


Designation	Side Clamp	Screw	Key	Coolant Nozzle
C6 TBK-32R/L	BK 32-9 WEDG	SR M6X16DIN912 12.9	HW 5.0	EZ 125
C8 TBK-32R	BK 32-9 WEDG	SR M6X16DIN912 12.9	HW 5.0	EZ 125
C8 TBK-52R	BK 40-9	SR M6X16DIN912 12.9	HW 5.0	EZ 125

TOOL BLOCKS • CAMFIX

C#-TBU

Blocks with CAMFIX Exchangeable Tapered Shanks, for Parting and Grooving Blades



Right-hand shown • T= See specific blade dimensions

Designation	SS	f ₁	L	B ₁
C4 TBU-32R/L	40	21.0	60.00	32.0
C5 TBU-32R/L	50	30.0	64.00	32.0

For tools, see pages: CGHN-S (87) • TGHN-S (87).

Spare Parts

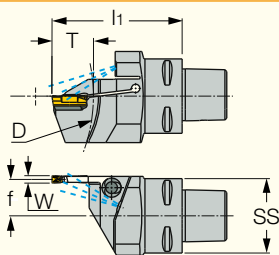
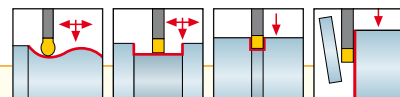


Designation	Key	Top Clamp	Screw	Screw 1	Pipe	Coolant Nozzle
C#-TBU	HW 5.0	BKU 176 307	SR M6X25DIN912 12.9U	SR M6X8DIN916 45H	EZP 5	EZ 125

HELI-GRIP • CAMFIX

C#-HELIR/L

External Tools for Turning, Grooving and Parting with CAMFIX Exchangeable Shanks



Left-hand shown

Designation	W _{min}	W _{max}	f	l ₁	SS	D _{max} ⁽¹⁾	Insert
C4 HELIR/L 3T20	3.00	3.18	20.0	65.00	40	40.0	GRIP 3, HGN 3
C5 HELIR/L 3T20	3.00	3.18	25.3	65.00	50	40.0	GRIP 3, HGN 3
C6 HELIR/L 3T20	3.00	3.18	31.8	65.00	63	40.0	GRIP 3, HGN 3
C4 HELIR/L 4T25	4.00	4.76	19.6	70.00	40	50.0	GRIP 4, DGN 4
C5 HELIR/L 4T25	4.00	4.76	24.9	70.00	50	50.0	GRIP 4, DGN 4
C6 HELIR/L 4T25	4.00	4.76	31.4	70.00	63	50.0	GRIP 4, DGN 4
C5 HELIR/L 5T25	5.00	5.00	24.4	70.00	50	50.0	GRIP 5, DGN 5
C6 HELIR/L 5T25	5.00	5.00	30.9	70.00	63	50.0	GRIP 5, DGN 5
C6 HELIR/L 6T30	6.00	6.35	30.4	85.00	63	60.0	GRIP 6, DGN 6

• The depth of cut (T) for grooving is limited by the part diameter D. For grooving depth capacity, see table below.

⁽¹⁾ Maximum parting diameter.

For inserts: GRIP • GRIP (full radius) • DGN/DGNC/DGNM-C • HGN-C • DGR/L-C DGRC/LC-C • DGN/DGNM-J/JS/JT • HGN-J • DGR/L-J/JS • DGN-UT/JA • DGN-W • HGN-UT .

Grooving Depth Capacity

Designation	D																					
	∞	∞	∞	∞	1151	384	231	167	131	109	94	83	—	—	—	—	—	—	—	—		
C4 HELIR/L 3T20	∞	∞	∞	∞	∞	∞	∞	∞	∞	∞	∞	1127	376	227	163	128	107	—	—	—		
C4 HELIR/L 4T25	∞	∞	∞	∞	∞	∞	∞	∞	∞	∞	∞	1301	434	261	188	148	122	105	—	—		
C5 HELIR/L 3T20	∞	∞	∞	∞	∞	∞	∞	∞	∞	∞	∞	1301	434	261	188	148	122	105	—	—		
C5 HELIR/L 4T25	∞	∞	∞	∞	∞	∞	∞	∞	∞	∞	∞	1301	434	261	188	148	122	105	—	—		
C5 HELIR/L 5T25	∞	∞	∞	∞	∞	∞	∞	∞	∞	∞	∞	1301	434	261	188	148	122	105	—	—		
C6 HELIR/L 3T20	∞	787	394	264	199	161	136	118	105	95	87	81	—	—	—	—	—	—	—	—		
C6 HELIR/L 4T25	∞	∞	∞	∞	∞	∞	1957	653	393	282	221	182	156	137	122	111	102	—	—	—		
C6 HELIR/L 5T25	∞	∞	∞	∞	∞	∞	1957	653	393	282	221	182	156	137	122	111	102	—	—	—		
C6 HELIR/L 6T30	∞	∞	∞	∞	∞	∞	∞	∞	∞	∞	∞	1879	627	377	271	212	175	150	131	118	107	99
Depth T	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Spare Parts

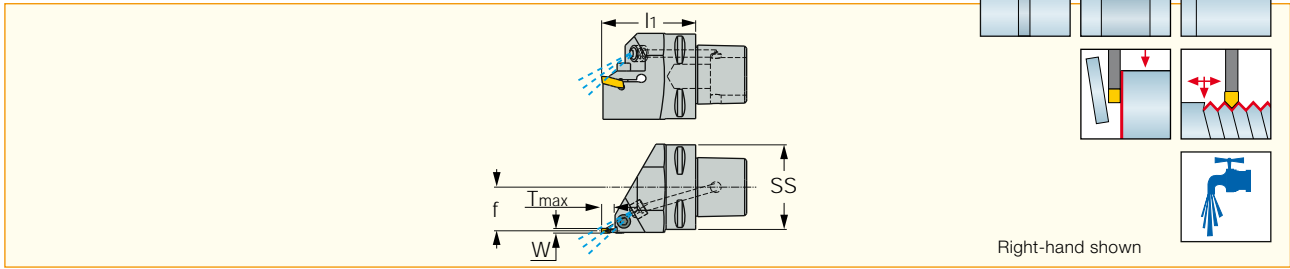


Designation	Key	Screw	Coolant Nozzle
C#-HELIR/L	HW 5.0	SR M6X16DIN912 12.9	EZ 104

CUT-GRIP • CAMFIX

C#-GHDR/L

External Grooving, Turning and Parting Toolholders with CAMFIX Exchangeable Tapered Shanks



Designation	W _{min}	W _{max}	SS	T _{max-r}	l ₁	f
C4 GHDR/L-3	2.80	4.00	40	9.00	55.00	20.0
C5 GHDR/L-3	2.80	4.00	50	9.00	55.00	24.0
C6 GHDR/L-3	2.80	4.00	63	9.00	55.00	32.0
C4 GHDR/L-4	4.00	5.00	40	10.00	55.00	20.0
C5 GHDR/L-4	4.00	5.00	50	10.00	55.00	24.0
C6 GHDR/L-4	4.00	5.00	63	10.00	55.00	32.0
C5 GHDR/L-5	5.00	6.40	50	12.00	55.00	24.0
C6 GHDR/L-5	5.00	6.40	63	12.00	55.00	32.0
C6 GHDR/L-8 ⁽¹⁾	7.00	8.40	63	25.00	70.00	30.0

⁽¹⁾ Used with GIF 8, GIA 8, GIPA 8, GDMM, GIDA, GDMY, GDMF, GDMU inserts.

For inserts: GDMF • GDMM-CC • GDMN • GDMU • GDMY • GDMY (full radius) • GDMY-F • GIA-K (long pocket) • GIA-K (W=3-6) • GIF • GIF (full radius) • GIF (long pocket) • GIF-E (W=4-6 full radius) • GIF-E (W=4-6) • GIF-E (W=8,10 full radius) • GIF-E (W=8,10) • GIM-C • GIM-J • GIM-J-RA/LA • GIM-UT • GIM-UT-RA/LA • GIM-W • GIM-W-RA/LA • GIMF • GIMN • GIMY • GIMY (full radius) • GIMY-F • GIP • GIP (full radius) • GIP-E • GIP-E (full radius) • GIP-UN • GIPA (full radius W=3-6) • GIPA (W=3-6) • GIPA/GIDA 8 (full radius) • GIPM-A46 / GIP-1250 • GIPY • GITM • GITM (full radius) • GPV • TIP-MT • TIP-P-BSPT • TIP-P-BSW • TIP-P-ISO • TIP-P-NPT • TIP-P-UN • TIP-WT .

Spare Parts

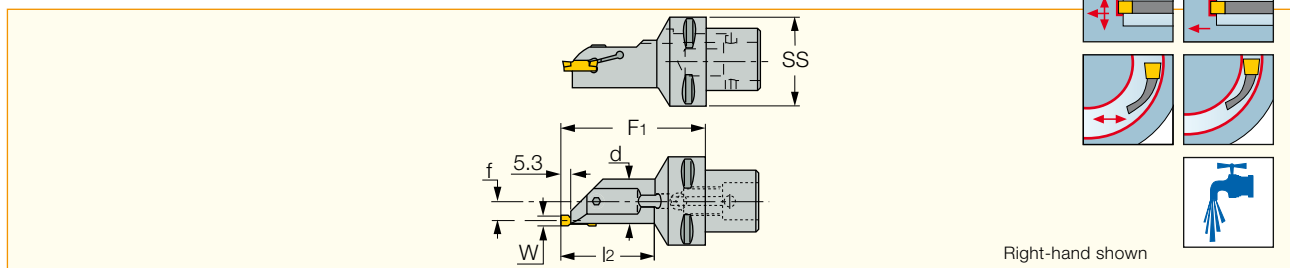


Designation	Screw	Key	Coolant Nozzle
C4 GHDL-3	SR M5X20DIN912 12.9	HW 4.0	EZ 104
C4 GHDR-3	SR M5X20DIN912 12.9	HW 4.0	EZ 104
C5 GHDR/L-3	SR M5X25DIN912 12.9	HW 4.0	EZ 104
C6 GHDL-3	SR M5X25DIN912 12.9	HW 4.0	EZ 125
C6 GHDR-3	SR M5X16DIN912 12.9	HW 4.0	EZ 125
C4 GHDR/L-4	SR M6X25DIN912 12.9U	HW 5.0	EZ 104
C5 GHDR/L-4	SR M6X25DIN912 12.9U	HW 5.0	EZ 104
C6 GHDR/L-4	SR M6X16DIN912 12.9	HW 5.0	EZ 125
C5 GHDR/L-5	SR M6X25DIN912 12.9U	HW 5.0	EZ 104
C6 GHDR/L-5	SR M6X16DIN912 12.9	HW 5.0	EZ 125
C6 GHDL-8	SR M6X20DIN912 12.9	HW 5.0	EZ 146
C6 GHDR-8	SR M6X25DIN912 12.9U	HW 5.0	EZ 146

CAMFIX

C#-HFIR/L-MC

Boring Bars for Internal Grooving and Turning with CAMFIX Exchangeable Shanks



Designation	W _{min}	W _{max}	SS	f	l ₂	F ₁	d
C4 HFIR/L-MC	3.00	6.00	40	11.3	52.0	80.0	25.00
C5 HFIR/L-MC	3.00	6.00	50	11.3	52.0	80.0	25.00

• DGN & GRIP 4.. - 6.. inserts can be used only with right-hand tools, HGPL 4.. - 6.. inserts with left-hand tools. • After initial groove, no limitation to widening groove outward or toward center.

For inserts: HFPR/L • HFPR/L (full radius) • GRIP • GRIP (full radius) • DGN/DGNC/DGNM-C • DGN/DGNM-J/JS/JT • DGN-W • HGPL .

Spare Parts



Designation	Screw	Key	Coolant Nozzle
C#-HFIR/L-MC	SR M5X16DIN912 12.9	HW 4.0	EZ 83

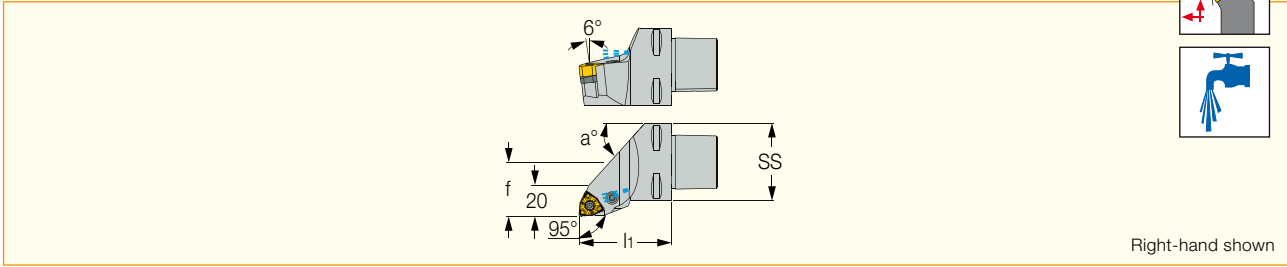
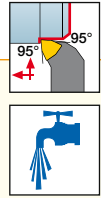
ISOTURN TOOLS



HELITURN LD • CAMFIX

C#-PWLNR/L-X

Lever Lock Tools with CAMFIX Shanks Carrying HELITURN LD WNMX or WNMG Inserts



Right-hand shown

Designation	SS	f	l ₁	a°	Insert
C4 PWLNR/L-27050-06X ⁽¹⁾	40	27.0	50.00	45	WNMX 0606 WNMG 0604
C5 PWLNL-25060-06X ⁽¹⁾	50	25.0	60.00	48	WNMX 0606 WNMG 0604
C4 PWLNR/L-27050-08X ⁽²⁾	40	27.0	50.00	45	WNMX 0807 WNMG 0804
C5 PWLNR/L-35060-08X ⁽²⁾	50	35.0	60.00	48	WNMX 0807 WNMG 0804

⁽¹⁾ Supplied with TWX 3 seat for WNMX 0606.. inserts and TWN 3 seat for WNMG 0604.. inserts. ⁽²⁾ Supplied with TWX 4 seat for WNMX 0807.. inserts and TWN 443 seat for WNMG 0804.. inserts.

For inserts: WNMX-M3/4PW • WNMX-M4MW • WNMA/WNMA-WG • WNMG-F3M • WNMG-F3P • WNMG-GN • WNMG-M3M • WNMG-M3P • WNMG-NF • WNMG-PP • WNMG-TF • WNMG-WF • WNMG-WG .

Spare Parts



Designation	Seat	Seat 1	Spring Pin	Punch	Lever	Screw	Hex Flag Key	Coolant Nozzle
C4 PWLNR/L-27050-06X	TWN 3	TWX 3	SP 3	PN 3-4	LR 3	SR 117-2014	HW 2.5/5	EZ 62
C5 PWLNL-25060-06X	TWN 3	TWX 3	SP 3	PN 3-4	LR 3	SR 117-2014	HW 2.5/5	EZ 83
C4 PWLNR/L-27050-08X	TWN 443	TWX 4	SP 4	PN 3-4L	LR 4DH	SR 117-2010	HW 3.0	EZ 62
C5 PWLNR/L-35060-08X	TWN 443	TWX 4	SP 4	PN 3-4L	LR 4DH	SR 117-2010	HW 3.0	EZ 83

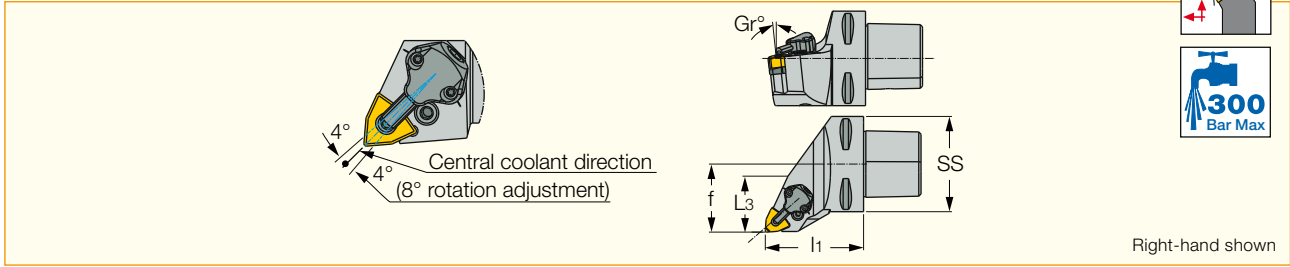


ISOTURN • JET HPLINE • CAMFIX

C#-PWLNR/L-08-JHP

Lever Lock Tools for Trigon Inserts, with CAMFIX Exchangeable Shanks and Channels for High Pressure Coolant

Quick Change
High Precision
Tools and Holders for
MAXIMUM
MACHINING PERFORMANCE



Designation	SS	f	l ₁	L ₃	G _a °	G _r °	Insert
C6 PWLNR/L-45065-08-JHP	63	45.0	65.00	37.00	-6	-6	WNMG 08..

For inserts: WNGA-Ceramic • WNGA-M3 (CBN) • WNGA-MC/M6 (CBN) • WNMA/WNMA-WG • WNMG-F3M • WNMG-F3P • WNMG-GN • WNMG-M3M • WNMG-M3P • WNMG-NF • WNMG-NR • WNMG-PP • WNMG-TF • WNMG-TNM • WNMG-VL • WNMG-WF • WNMG-WG • WNMN-NM .

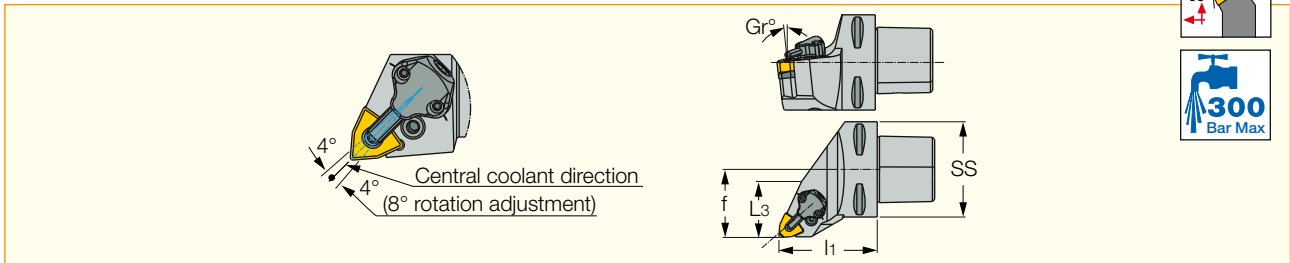
Spare Parts

Designation	Seat	Spring Pin	Lever	Screw	Punch	Cooling Unit	O-Ring	Key	Key 1	Key 2
C6 PWLNR/L-45065-08-JHP	TWN 423	SP 4	LR 4	SR 117-2010	PN 3-4	CU-CW-JHP	OR 6.4X0.9N	T-8/5	HW 3.0	HW 1.5

HELITURN LD • JET HPLINE • CAMFIX

C#-PWLNR/L-X-JHP

Lever Lock Tools with CAMFIX Shanks and Channels for High Pressure Coolant, Carrying WNMX or WNMG Inserts



Designation	SS	l ₁	f	L ₃	G _a °	G _r °	Insert
C3 PWLNR-22040-06X-JHP (1)	32	40.00	27.0	22.00	-6	-6	WNMX 0606 WNMG 0604
C3 PWLNR-22045-08X-JHP (2)	32	40.00	27.0	22.00	-6	-6	WNMX 0807 WNMG 0804
C4 PWLNR/L-27050-08X-JHP (2)	40	50.00	27.0	22.00	-6	-6	WNMX 0807 WNMG 0804
C5 PWLNR/L-35060-08X-JHP (2)	50	60.00	35.0	25.00	-6	-6	WNMX 0807 WNMG 0804
C6 PWLNR/L-45065-08X-JHP (2)	63	65.00	45.0	37.00	-6	-6	WNMX 0807 WNMG 0804

(1) Use TWX 3 seat for WNMX 0606.. inserts and TWN 3 seat for WNMG 0604.. insert.
2) Use TWX 4 seat for WNMX 0807.. inserts and TWN 443 seat for WNMG 0804.. insert.

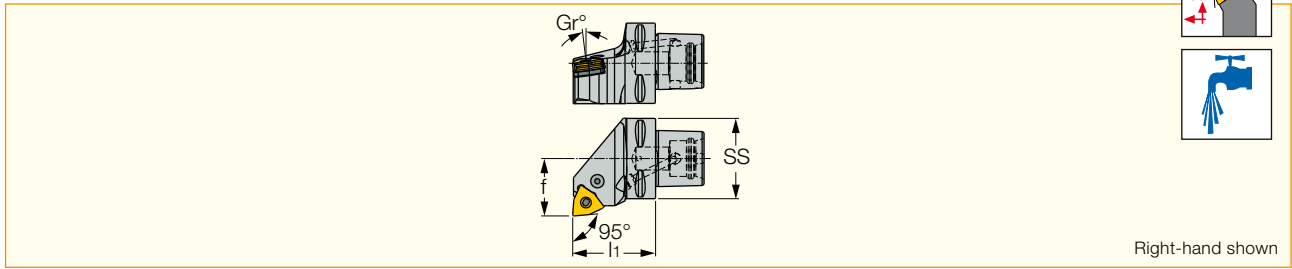
For inserts: WNMX-M3/4PW • WNMX-M4MW • WNMA/WNMA-WG • WNMG-F3M • WNMG-F3P • WNMG-GN • WNMG-M3M • WNMG-M3P • WNMG-NF • WNMG-PP • WNMG-TF • WNMG-WF • WNMG-WG • WNGA-Ceramic • WNGA-M3 (CBN) • WNGA-MC/M6 (CBN) • WNMG-GN • WNMG-NR • WNMG-SF • WNMG-TNM • WNMG-VL • WNMN-NM .

Spare Parts

Designation	Seat	Seat 1	Spring Pin	Punch	Lever	Screw	Cooling Unit	Key	Key 1
C3 PWLNR-22040-06X-JHP	TWX 3	TWN 3	SP 3	PN 3-4	LR 3	SR 117-2014	CU-CW-JHP	T-8/5	HW 2.5/5
C3 PWLNR-22045-08X-JHP	TWX 4	TWN 443	SP 4	PN 3-4L	LR 4DH	SR 117-2010	CU-CW-JHP	T-8/5	HW 3.0
C4 PWLNR/L-27050-08X-JHP	TWX 4	TWN 443	SP 4	PN 3-4L	LR 4DH	SR 117-2010	CU-CW-JHP	T-8/5	HW 3.0
C5 PWLNR/L-35060-08X-JHP	TWX 4	TWN 443	SP 4	PN 3-4L	LR 4DH	SR 117-2010	CU-CW-JHP	T-8/5	HW 3.0
C6 PWLNR/L-45065-08X-JHP	TWX 4	TWN 443	SP 4	PN 3-4L	LR 4DH	SR 117-2010	CU-CW-JHP	T-8/5	HW 3.0

C#-PWLOR/L-IQ

Lever Lock and Dovetail Pocket Tools with CAMFIX Shanks for Unique Double-Sided Trigon Inserts



Right-hand shown

Designation	SS	f	l ₁	G _a °	G _r °	Insert
C6 PWLOR/L-45065-13-IQ	63	45.0	65.00	-6.5	-6.5	WOMG 1306-IQ

For inserts: WOMG-13-R3P-IQ

Spare Parts

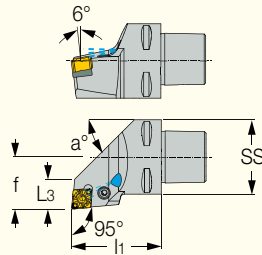
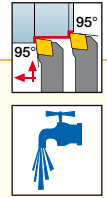


Designation	Seat	Hex Key	Screw	Lever	Seat Pin	Coolant Nozzle
C6 PWLOR/L-45065-13-IQ	TWX 6-IQ	HW 4.0	SR 10402352	LCL 20C-NX	SP 5	SATZ-M10X1-M5

HELITURN LD • CAMFIX

C#-PCLNR/L-X

Lever Lock Tools for CNMX and CNMG Rhombic Inserts with CAMFIX Exchangeable Shanks



Right-hand shown

Descrizione	SS	f	l ₁	L ₃	a°	Insert
C4 PCLNR/L-27050-12X⁽¹⁾	40	27.0	50.00	20.00	40	CNMX 1207/CNMG 1204
C5 PCLNR/L-35060-12X⁽¹⁾	50	35.0	60.00	20.00	45	CNMX 1207/CNMG 1204
C6 PCLNR/L-45065-12X⁽¹⁾	63	45.0	65.00	20.00	54	CNMX 1207/CNMG 1204
C4 PCLNR/L-27050-16X⁽²⁾	40	27.0	50.00	21.00	40	CNMX 1607/CNMG 1606
C5 PCLNR/L-35060-16X⁽²⁾	50	35.0	60.00	21.00	45	CNMX 1607/CNMG 1606
C6 PCLNR/L-45065-16X⁽²⁾	63	45.0	65.00	21.00	54	CNMX 1607/CNMG 1606

⁽¹⁾ Use TCX 4 seat for CNMX 1207.. inserts and TCN 443 seat for CNMG 1204.. inserts.

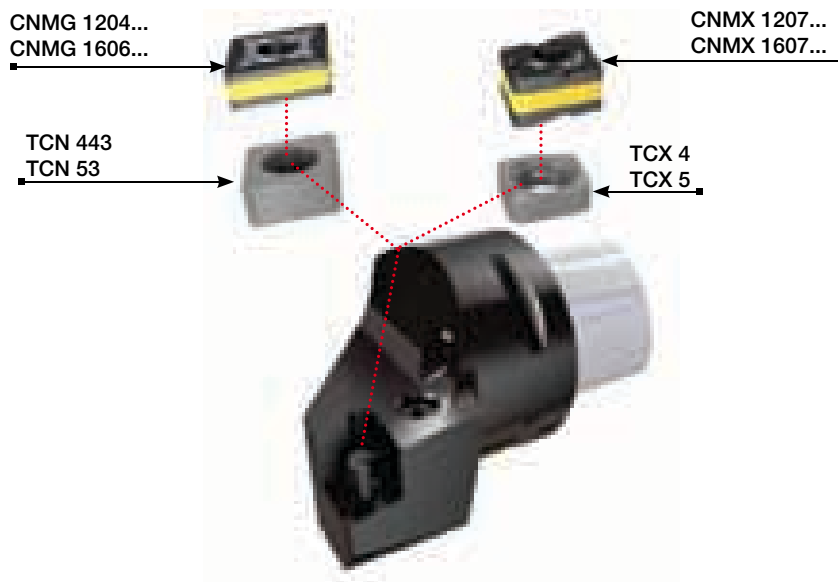
⁽²⁾ Use TCX 5 seat for CNMX 1607.. inserts and TCN 53 seat for CNMG 1606.. inserts.

For inserts: CNGA-Ceramic • CNGA-MC/M4 (CBN) • CNGA-R2/M2/F2 (CBN) • CNGG-M4HF/M4HM (CBN) • CNMA • CNMA (PCD) • CNMA-MW4 (CBN) • CNMA-T/M1/WG (CBN) • CNMG-Ceramic • CNMG-F3M • CNMG-F3P • CNMG-GN • CNMG-M3M • CNMG-M3P • CNMG-NF • CNMG-NR • CNMG-VL • CNMG-WF • CNMG-WG/NRW • CNMG/CNGG-PP • CNMG/CNGG-SF • CNMG/CNGG-TF • CNMM-M4PW • CNMM-NM • CNMM-R3P • CNMS-12 .

Spare Parts



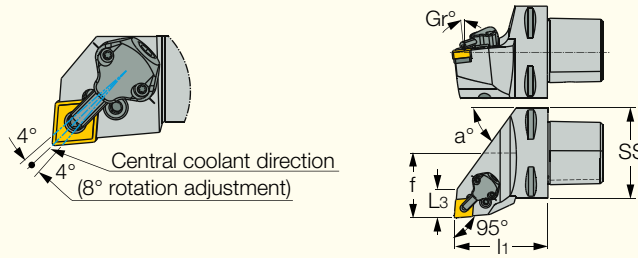
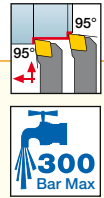
Designation	Seat	Seat 1	Spring Pin	Punch	Lever	Screw	Key	Coolant Nozzle
C4 PCLNR/L-27050-12X	TCX 4	TCN 443	SP 4	PN 3-4	LR 4DH	SR 117-2010	HW 3.0	EZ 62
C5 PCLNR/L-35060-12X	TCX 4	TCN 443	SP 4	PN 3-4	LR 4DH	SR 117-2010	HW 3.0	EZ 83
C6 PCLNR/L-45065-12X	TCX 4	TCN 443	SP 4	PN 3-4	LR 4DH	SR 117-2010	HW 3.0	EZ 83
C4 PCLNR/L-27050-16X	TCX 5	TCN 53	SP 5		LR 5	SR LCS 5	HW 3.0	EZ 104
C5 PCLNR/L-35060-16X	TCX 5	TCN 53	SP 5		LR 5	SR LCS 5	HW 3.0	EZ 125
C6 PCLNR/L-45065-16X	TCX 5	TCN 53	SP 5		LR 5	SR LCS 5	HW 3.0	EZ 125



ISOTURN • JETHPLINE • CAMFIX

C#-PCLNR/L-JHP

Lever Lock Tools for 80° Negative Rhombic Inserts and CAMFIX Shanks with Channels for High Pressure Coolant



Designation	SS	f	l ₁	L ₃	a°	G _a °	G _r °	Insert
C6 PCLNR/L-45065-12-JHP	63	45.0	65.00	20.00	54	-6	-6	CNMG 1204

For inserts: CNGA-Ceramic • CNGA-MC/M4 (CBN) • CNGA-R2/M2/F2 (CBN) • CNGG-M4HF/M4HM (CBN) • CNMA • CNMA (PCD) • CNMA-MW4 (CBN) • CNMA-T/M1/WG (CBN) • CNMG-Ceramic • CNMG-F3M • CNMG-F3P • CNMG-GN • CNMG-M3M • CNMG-M3P • CNMG-NF • CNMG-NR • CNMG-VL • CNMG-WF • CNMG-WG/NRW • CNMG/CNGG-PP • CNMG/CNGG-SF • CNMG/CNGG-TF • CNMM-M4PW • CNMM-NM • CNMM-R3P • CNMS-12 .

Spare Parts

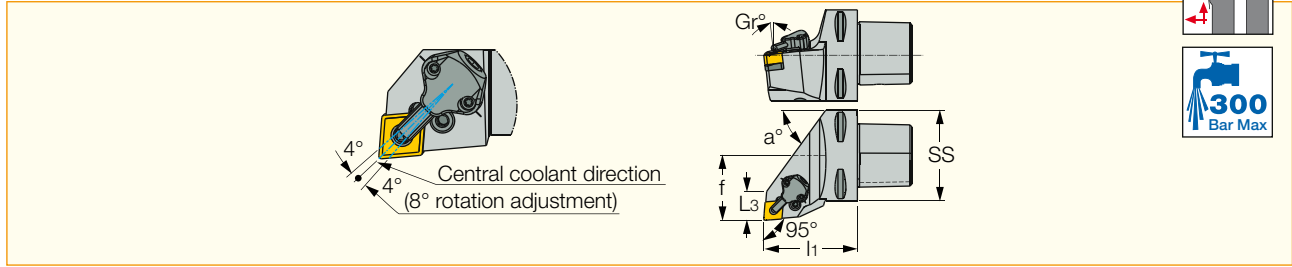
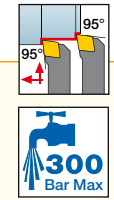


Designation	Seat	Spring Pin	Lever	Screw	Punch	Cooling Unit	O-Ring	Key	Key 1	Plug
C6 PCLNR/L-45065-12-JHP	TCN 423	SP 4	LR 4	SR 117-2010	PN 3-4	CU-CW-JHP	OR 6.4X0.9N	HW 3.0	T-8/5	SR M5X5 TL360



C#-PCLNR/L-X-JHP

Lever Lock Tools with CAMFIX Shanks and Channels for High Pressure Coolant, Carrying CNMX or CNMG Inserts



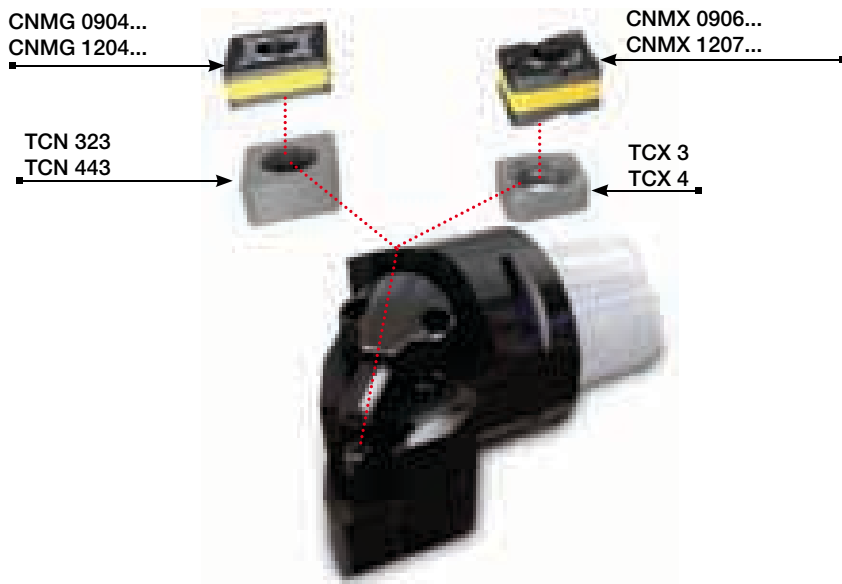
Designation	SS	f	l ₁	L ₃	a°	G _a °	G _r °	Insert
C3 PCLNR-22040-09X-JHP ⁽¹⁾	32	22.0	40.00	24.00	45	-6	-6	CNMX 0906, CNMG 0904
C4 PCLNR/L-27050-09X-JHP ⁽¹⁾	40	27.0	50.00	24.00	45	-6	-6	CNMX 0906, CNMG 0904
C5 PCLNR/L-35060-09X-JHP ⁽¹⁾	50	35.0	60.00	26.00	45	-6	-6	CNMX 0906, CNMG 0904
C4 PCLNR/L-27050-12X-JHP ⁽²⁾	40	27.0	50.00	18.00	54	-6	-6	CNMX 1207/CNMG 1204
C5 PCLNR/L-35060-12X-JHP ⁽²⁾	50	35.0	60.00	22.00	54	-6	-6	CNMX 1207/CNMG 1204
C6 PCLNR/L-45065-12X-JHP ⁽²⁾	63	45.0	65.00	20.00	54	-6	-6	CNMX 1207/CNMG 1204

⁽¹⁾ Supplied with TCX 3 seat for CNMX 0906.. inserts and TCN 323 seat for CNMG 0904.. inserts. ⁽²⁾ Supplied with TCX 4 seat for CNMX 1207.. inserts and TCN 443 seat for CNMG 1204.. inserts.

Spare Parts

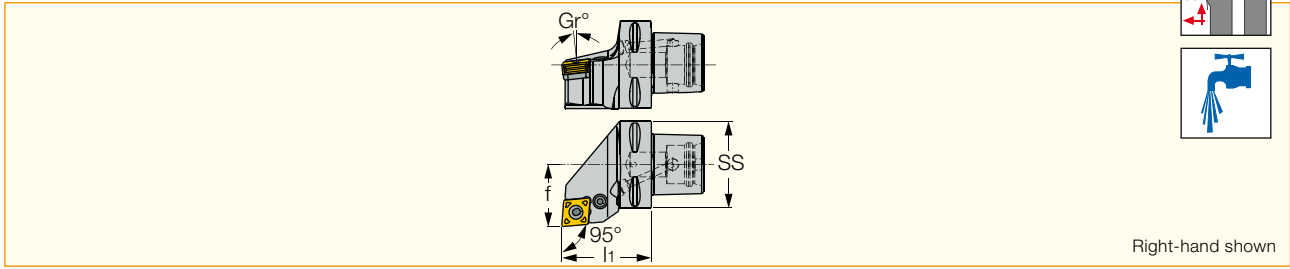


Designation	Seat	Seat 1	Spring Pin	Lever	Screw	Punch	Cooling Unit	Key	Key 1
C3 PCLNR-22040-09X-JHP	TCX 3	TCN 323	SP 3	LR 3	SR 117-2014	PN 3-4	CU-CW-JHP	T-8/5	HW 2.5/5
C4 PCLNR/L-27050-09X-JHP	TCX 3	TCN 323	SP 3	LR 3	SR 117-2014	PN 3-4	CU-CW-JHP	T-8/5	HW 2.5
C5 PCLNR/L-35060-09X-JHP	TCX 3	TCN 323	SP 3	LR 3	SR 117-2014	PN 3-4	CU-CW-JHP	T-8/5	HW 2.5
C4 PCLNR/L-27050-12X-JHP	TCX 4	TCN 443	SP 4	LR 4DH	SR 117-2010	PN 3-4L	CU-CW-JHP	T-8/5	HW 3.0
C5 PCLNR/L-35060-12X-JHP	TCX 4	TCN 443	SP 4	LR 4DH	SR 117-2010	PN 3-4L	CU-CW-JHP	T-8/5	HW 3.0
C6 PCLNR/L-45065-12X-JHP	TCX 4	TCN 443	SP 4	LR 4DH	SR 117-2010	PN 3-4L	CU-CW-JHP	T-8/5	HW 3.0



C#-PCLOR/L-IQ

Lever Lock and Dovetail Pocket Tools with CAMFIX Shanks for Unique Double-Sided 80° Rhombic Inserts



Right-hand shown

Designation	SS	f	l ₁	G _a °	G _r °	Insert
C6 PCLOR/L-45065-16-IQ	63	45.0	65.00	-6	-6	COMG 1606
C6 PCLOR/L-45065-19-IQ	63	45.0	65.00	-6	-6	COMG 1906

For inserts: COMG-R3P-IQ

Spare Parts



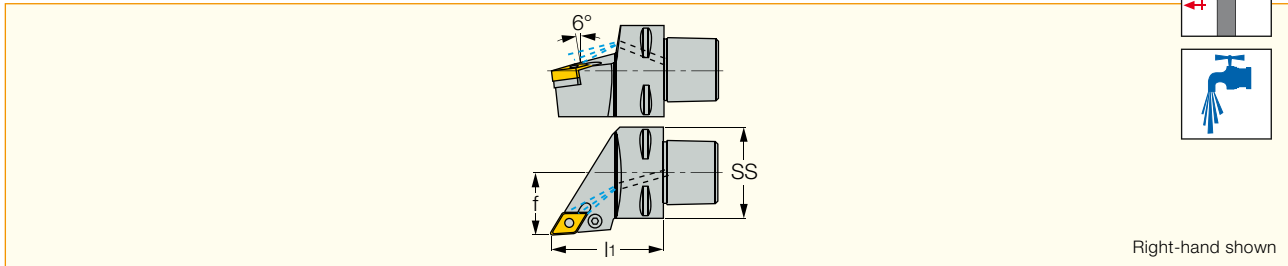
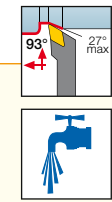
Designation	Seat	Hex Key	Screw	Lever	Seat Pin	Coolant Nozzle
C6 PCLOR/L-45065-16-IQ	TCX 5-IQ	HW 3.0	SR LCS 5-L25.5	LCL 16-NX	SP 5	SATZ-M10X1-M5
C6 PCLOR/L-45065-19-IQ	TCX 6-IQ	HW 4.0	SR 10402352	LCL 20C-NX	SP 5	SATZ-M10X1-M5



ISOTURN • CAMFIX

C#-PDJNR

93° Lead Angle Tools, for 55° Negative Inserts with CAMFIX Exchangeable Shanks



Designation	SS	f	l ₁	Insert
C5 PDJNR-35060-11	50	35.0	60.00	DNMG 1104

For inserts: DNMG-F3M • DNMG-F3P • DNMG-GN • DNMG-M3M • DNMG-M3P • DNMG-NF • DNMG-PF • DNMG-VL • DNMG/DNGG-PP • DNMG/DNGG-SF • DNMG/DNGG-TF .

Spare Parts

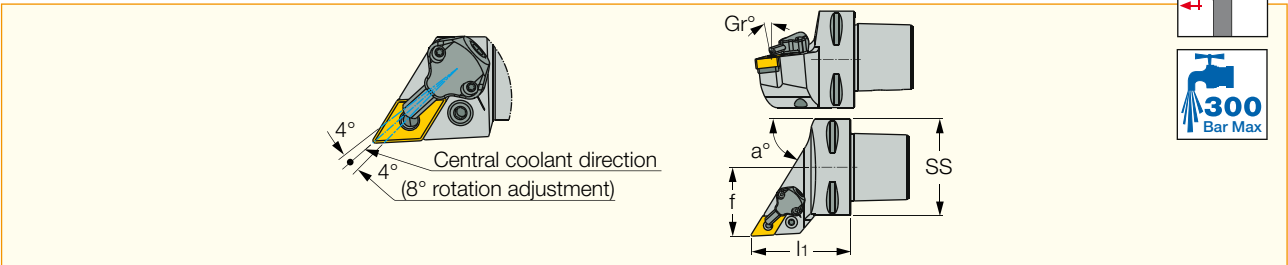
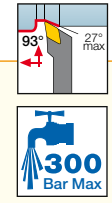


Designation	Coolant Nozzle Seat	Spring Pin	Punch	Lever	Screw	Hex Flag Key	
C#-PDJNR	EZ 104	TDN 322	SP 3	PN 3-4	LR 3D	SR 117-2014	HW 2.5/5

ISOTURN • JET HPLINE • CAMFIX

C#-PDJNR/L-JHP

Lever Lock Tools for Negative 55° Inserts with CAMFIX Exchangeable Heads and Channels for High Pressure Coolant



Designation	SS	f	l ₁	G _a °	G°	a°	Insert
C3 PDJNR-22045-11-JHP	32	22.0	45.00	-6	-6	58	DN.. 11..
C4 PDJNR/L 27050-11-JHP	40	27.0	55.00	-6	-6	58	DN.. 11..
C5 PDJNR/L 35060-11-JHP	50	35.0	60.00	-6	-6	58	DN.. 11..
C4 PDJNR/L 27055-15-JHP	40	27.0	55.00	-6	-6	58	DN.. 15..
C5 PDJNR/L 35060-15-JHP	50	35.0	60.00	-6	-6	58	DN.. 15..
C6 PDJNR/L 45065-15-JHP	63	45.0	65.00	-6	-6	58	DN.. 15..

For inserts: DNGA-Ceramic • DNGA-MC/M4 (CBN) • DNGA-R2/M2 (CBN) • DNGG-M4HF/M4HM (CBN) • DNMA • DNMA (CBN) • DNMG-F3M • DNMG-F3P • DNMG-GN • DNMG-M3M • DNMG-M3P • DNMG-NF • DNMG-NR • DNMG-PF • DNMG-VL • DNMG-WG • DNMG/DNGG-PP • DNMG/DNGG-SF • DNMG/DNGG-TF • DNMM-NM • DNMS-12 • DNMX-M3P .

Spare Parts



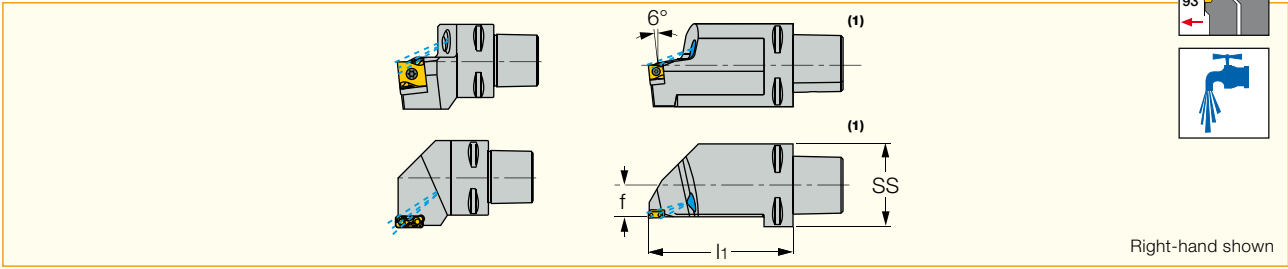
Designation	Seat	Spring Pin	Lever	Screw	Punch	Cooling Unit	Key	Hex Flag Key
C3 PDJNR-22045-11-JHP	TDN 322	SP 3	LR 3D	SR 117-2014	PN 3-4	CU-D-JHP	T-8/5	HW 2.5/5
C4 PDJNR/L 27050-11-JHP	TDN 322	SP 3	LR 3D	SR 117-2014	PN 3-4	CU-D-JHP	T-8/5	HW 2.5/5
C5 PDJNR/L 35060-11-JHP	TDN 322	SP 3	LR 3D	SR 117-2014	PN 3-4	CU-D-JHP	T-8/5	HW 2.5/5
C4 PDJNR/L 27055-15-JHP	TDN 422	SP 4	LR 4D	SR 117-2010	PN 3-4	CU-D-JHP	T-8/5	HW 3.0
C5 PDJNR/L 35060-15-JHP	TDN 422	SP 4	LR 4D	SR 117-2010	PN 3-4	CU-D-JHP	T-8/5	HW 3.0
C6 PDJNR/L 45065-15-JHP	TDN 422	SP 4	LR 4D	SR 117-2010	PN 3-4	CU-D-JHP	T-8/5	HW 3.0

HELITURN • CAMFIX

TANGENTIAL LINE

C#-SLANR/L-TANG

Tools with CAMFIX Shanks for LNMX-HT - High Production Cutting, Tangentially Screw Clamped Inserts



Right-hand shown

Designation	SS	l ₁	f	G _a °	G _r °	Insert
C4 SLANR/L-27050-11 TANG	40	50.00	27.0	-6	-6	LNMX 1104..
C5 SLANR/L-35060-11 TANG	50	60.00	35.0	-6	-6	LNMX 1104..
C6 SLANR/L 25110-11 TANG ⁽¹⁾	63	110.00	25.0	-6	-6	LNMX 1104..
C4 SLANR/L-27050-15 TANG	40	50.00	27.0	-6	-6	LNMX 1506..
C5 SLANR/L-35060-15 TANG	50	60.00	35.0	-6	-6	LNMX 1506..
C6 SLANR/L 25110-15 TANG ⁽¹⁾	63	110.00	25.0	-6	-6	LNMX 1506..
C6 SLANR/L-45065-15 TANG	63	65.00	45.0	-6	-6	LNMX 1506..
C6 SLANR/L-45065-22 TANG	63	65.00	45.0	-6	-6	LNMX 2210..

• ap max for facing: LNMX 11-2.8 mm, LNMX 15-3.8 mm

⁽¹⁾ Designed for mill-turn machines

For inserts: LNMX-HM • LNMX-HT • LNMX-WG .

Spare Parts



Designation	Seat Screw	Torx Key	Insert Screw	Key	Torx Blade	T-Handle	Handle	Coolant Nozzle
C4 SLANR/L-27050-11 TANG	SR RS4	T-6/5	SR 34-550-C		BLD T10/S7		SW6-SD	EZ 83
C5 SLANR/L-35060-11 TANG	SR RS4	T-6/5	SR 34-550-C		BLD T10/S7		SW6-SD	EZ 104
C6 SLANR/L 25110-11 TANG	SR RS4	T-6/5	SR 34-550-C		BLD T10/S7		SW6-SD	EZ 146
C4 SLANR/L-27050-15 TANG	SR RS4	T-6/5	SR 34-535-SN		BLD T15/S7	SW6-T-SH		EZ 104
C5 SLANR/L-35060-15 TANG	SR RS4	T-6/5	SR 34-535-SN		BLD T15/S7	SW6-T-SH		EZ 104
C6 SLANR/L 25110-15 TANG	SR RS4	T-6/5	SR 34-535	T-15/5				EZ 146
C6 SLANR/L-45065-15 TANG	SR RS4	T-6/5	SR 34-535-SN		BLD T15/S7	SW6-T-SH		EZ 104
C6 SLANR/L-45065-22 TANG	SR 10500401	T-7/5	SR 14-591/L-SN		BLD T20/S7	SW6-T-SH		EZ 104

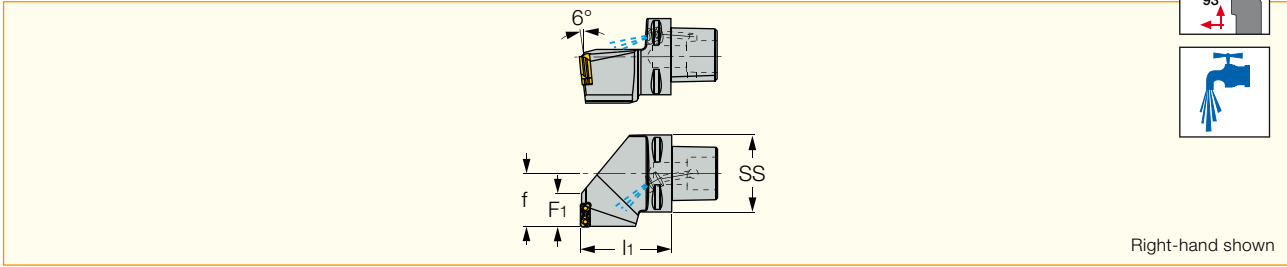


HELITURN • CAMFIX

TANGENTIAL LINE C#-SLFNR/L-TANG

Tools with CAMFIX Exchangeable Shanks for LNMX Tangentially Clamped Inserts, for Heavy Face Turning

Quick Change
High Precision
Tools and Holders for
MAXIMUM
MACHINING PERFORMANCE



Right-hand shown

Designation	SS	f	F ₁	l ₁	Insert
C4 SLFNR-27050-11 TANG	40	27.0	16.9	50.00	LNMX 1104
C4 SLFNR-27050-15 TANG	40	27.0	24.0	50.00	LNMX 1506
C5 SLFNR/L-35060-15 TANG	50	35.0	22.0	60.00	LNMX 1506

• ap max for longitudinal turning: LNMX 11: 2.8 mm, LNMX 15: 3.8 mm

For inserts: LNMX-HM • LNMX-HT • LNMX-WG .

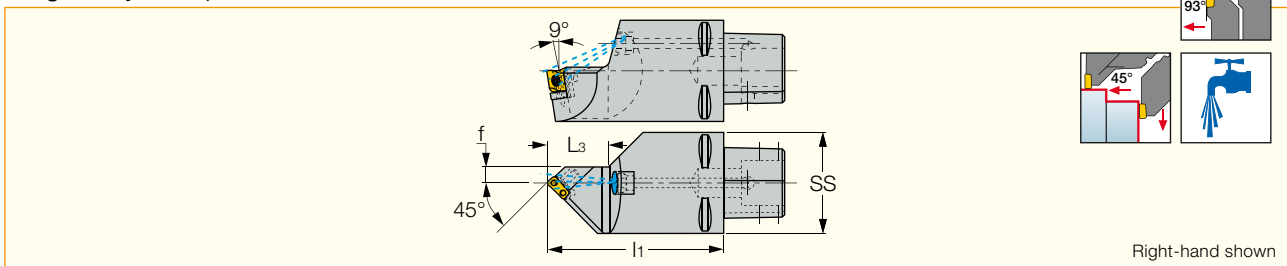
Spare Parts



Designation	Seat	Seat Screw	Seat Screw 1	Insert Screw	Key	Torx Blade	Handle	Coolant Nozzle
C4 SLFNR-27050-11 TANG	TLN 11L-HT	SR RS4	T-6/5	SR 34-550-C		BLD T10/S7	SW6-SD	EZ 83
C4 SLFNR-27050-15 TANG	TLN 15L-HT	SR RS4	T-6/5	SR 34-535-C	T-15/5			EZ 104
C5 SLFNL-35060-15 TANG	TLN 15R-HT	SR RS4	T-6/5	SR 34-535-SN		BLD T15/S7	SW6-T-SH	EZ 104
C5 SLFNR-35060-15 TANG	TLN 15L-HT	SR RS4	T-6/5	SR 34-535-SN		BLD T15/S7	SW6-T-SH	EZ 104

C#-SLSNL-TANG

Tools for 45° Mounting, with CAMFIX Taper Shanks for LNMX-HT - High Production Cutting, Tangentially Clamped Inserts



Right-hand shown

Designation	SS	l ₁	f	L ₃	Insert
C6 SLSNL 00110-22 TANG	63	110.00	12.0	38.00	LNMX 2210

For inserts: LNMX-HT

Spare Parts

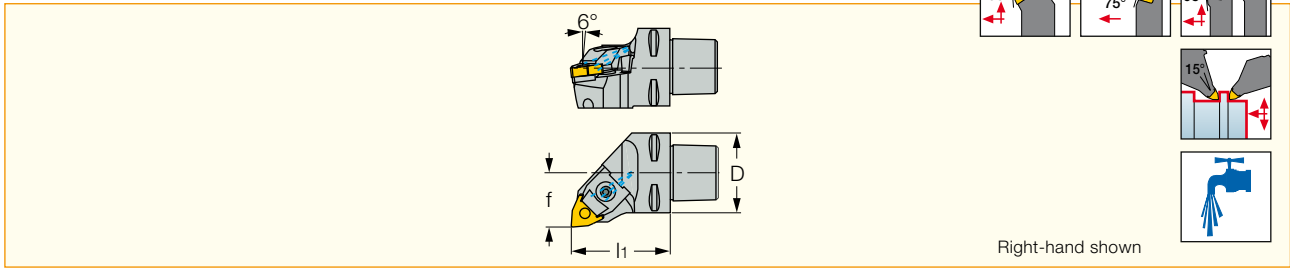


Designation	Seat	Seat Screw	Key	Screw	Torx Blade	T-Handle	Coolant Nozzle
C6 SLSNL 00110-22 TANG	TLN 22L-HT	SR 10500401	T-7/5	SR 14-591/L-SN	BLD T20/S7	SW6-T-SH	EZ 146

MULTI-WEDGE • CAMFIX

C#-MULNR/L-MW

MULTI-WEDGE Tools for 80° Rhombic, Trigon and Square Inserts with CAMFIX Exchangeable Shanks



Right-hand shown

Designation	SS	f	l ₁	Insert
C4 MULNR/L 27050-12MW	40	27.0	50.00	W/C/SNMG 1204..
C5 MULNR/L 35060-12MW	50	35.0	60.00	W/C/SNMG 1204..
C6 MULNR/L-45065-12MW	63	45.0	65.00	W/C/SNMG 1204..

• R.H. wedge for R.H. tool, L.H. wedge for L.H. tool

For inserts: CNGA-R2/M2/F2 (CBN) • CNMA (PCD) • CNMG-Ceramic • CNMG-F3M • CNMG-F3P • CNMG-M3P • CNMG-VL • CNMM-R3P • SNMG-F3M • SNMG-F3P • SNMG-M3M • SNMG-M3P • SNMM-R3P • WNMG-F3M • WNMG-F3P • WNMG-M3P • WNGA-Ceramic • WNGA-M3 (CBN) • WNGA-MC/M6 (CBN) • WNMA/WNMA-WG • WNMG-GN • WNMG-M3M • WNMG-NF • WNMG-NR • WNMG-PP • WNMG-TF • WNMG-TNM • WNMG-VL • WNMG-WF • WNMG-WG • WNMM-NM • CNGA-Ceramic • CNGA-MC/M4 (CBN) • CNGG-M4HF/M4HM (CBN) • CNMA • CNMA-MW4 (CBN) • CNMA-T/M1/WG (CBN) • CNMG-GN • CNMG-M3M • CNMG-NF • CNMG-NR • CNMG-WF • CNMG-WG/NRW • CNMG/CNGG-PP • CNMG/CNGG-SF • CNMG/CNGG-TF • CNMM-M4PW • CNMM-NM • CNMS-12 • SNGA-Ceramic • SNMA • SNMA (CBN) • SNMG-GN • SNMG-NR • SNMG-PP • SNMG-TF • SNMG-VL • SNMM-RP .

Spare Parts

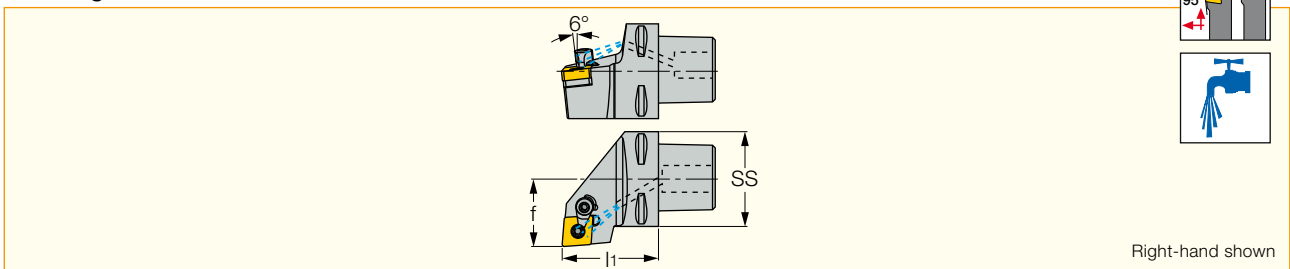


Designation	Locking Pin	WNMG Insert Wedge	Key	Wedge Screw	Ring	Spring	Coolant Nozzle
C4 MULNR/L 27050-12MW	ZNW 4CMI	LC WN08	HW 3.0	SR 17-307	DK 17-307	SPR 17-307	EZ 62
C5 MULNR/L 35060-12MW	ZNW 4CMI	LC WN08	HW 3.0	SR 17-307	DK 17-307	SPR 17-307	EZ 83
C6 MULNR/L-45065-12MW	ZNW 4CMI	LC WN08	HW 3.0	SR 17-307	DK 17-307	SPR 17-307	EZ 104

ISOTURN • CAMFIX

C#-MCLNR/L

95° Lead Angle Tools, for Negative 80° Inserts with CAMFIX Exchangeable Shanks



Right-hand shown

Designation	SS	f	l ₁	Insert
C6 MCLNR/L-45065-19	63	45.0	65.00	CNM.-19...

For inserts: CNMA • CNMG-GN • CNMG-M3M • CNMG-M3P • CNMG-MR • CNMG-NR • CNMG/CNGG-PP • CNMG/CNGG-TF • CNMM-NM • CNMM-NR • CNMM-R3P .

Spare Parts



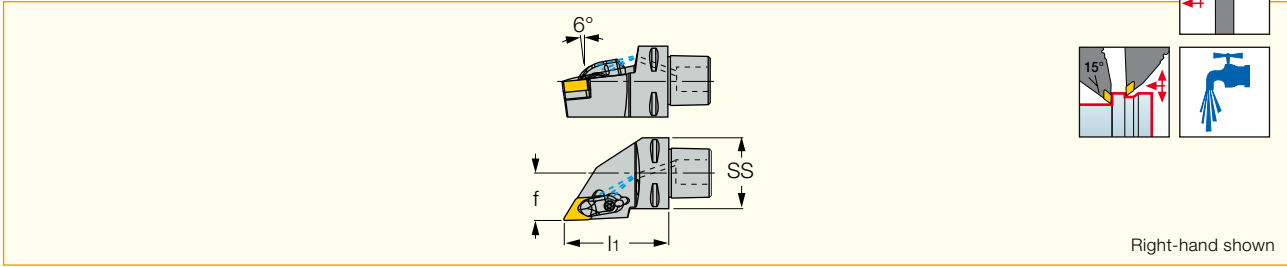
Designation	Clamp Set	Key	Locking Pin	Seat	Coolant Nozzle
C#-MCLNR/L	LC80 SET-1	HW 4.0	ZN 64	TCT 634	EZ 104

ISOTURN • CAMFIX

C#-DDJNR/L

Tools with CAMFIX Exchangeable Tapered Shanks, for Negative 55° Rhombic Inserts

Quick Change
High Precision
Tools and Holders for
MAXIMUM
MACHINING PERFORMANCE



Designation	SS	f	l ₁	Insert
C4 DDJNR/L-27060-15	40	27.0	60.00	DN..15
C5 DDJNR/L-35060-15	50	35.0	60.00	DN..15
C6 DDJNR/L-45065-15	63	45.0	65.00	DN..15

• Use RDT 443 seat for DN.. 1504.. inserts

For inserts: DNGA-Ceramic • DNGA-MC/M4 (CBN) • DNGA-R2/M2 (CBN) • DNGG-M4HF/M4HM (CBN) • DNMA • DNMA (CBN) • DNMG-F3M • DNMG-F3P • DNMG-GN • DNMG-M3M • DNMG-M3P • DNMG-NF • DNMG-NR • DNMG-PF • DNMG-VL • DNMG-WG • DNMG/DNGG-PP • DNMG/DNGG-SF • DNMG/DNGG-TF • DNMM-NM • DNMS-12 • DNMX-M3P .

Spare Parts

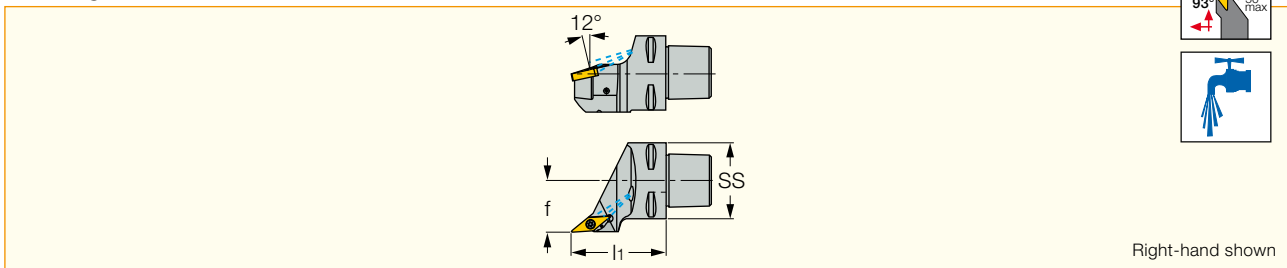


Designation	Seat	Seat 1	Key	Clamp	Right-Left Screw	Seat Screw	Coolant Nozzle
C4 DDJNL-27060-15	RDT 433	RDT 443*	T-15/5	LCGR-4	SR 10400270-25.5	SR 14-506	EZ 62
C4 DDJNR-27060-15	RDT 433		T-15/5	LCGR-4	SR 10400270-25.5	SR 14-506	EZ 62
C5 DDJNL-35060-15	RDT 433		T-15/5	LCGR-4	SR 10400270-25.5	SR 14-506	EZ 83
C5 DDJNR-35060-15	RDT 433	RDT 443*	T-15/5	LCGR-4	SR 10400270-25.5	SR 14-506	EZ 83
C6 DDJNR/L-45065-15	RDT 433	RDT 443*	T-15/5	LCGR-4	SR 10400270-25.5	SR 14-506	EZ 104

* Optional, should be ordered separately

C#-SVJNR/L-F

Screw Lock Tools with CAMFIX Exchangeable Shanks for 35° Negative Rhombic Inserts



Designation	SS	f	l ₁	Insert
C4 SVJNR/L-27050-12F	40	27.0	50.00	VN.. 12T3

For inserts: VNMG-SF • VNMG/VNGG-NF • VNMM-PP .

Spare Parts

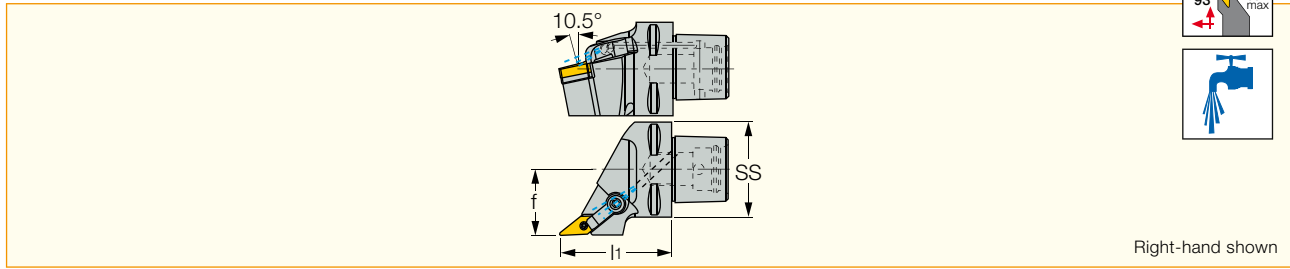


Designation	Wedge	Wedge Pin	Screw	Key	Coolant Nozzle
C#-SVJNR/L-F	AV 12	PA 12	SR 14-551	T-9/5	EZ 83

ISOTURN • CAMFIX

C#-MVJNL

93° Lead Angle Tools with CAMFIX Exchangeable Shanks,
for 35° Negative Inserts



Designation	SS	f	l ₁	Insert
C4 MVJNL-27050-16	40	27.0	50.00	VN.. 1604

For inserts: VNGA-Ceramic • VNGA-M2/R2 (CBN) • VNGA-M4 (CBN) • VNGG-M4HM (CBN) • VNMG-F3M • VNMG-F3P • VNMG-M3M • VNMG-TF • VNMG/VNGG-NF • VNMS-12 • YNMG-F3P .

Spare Parts



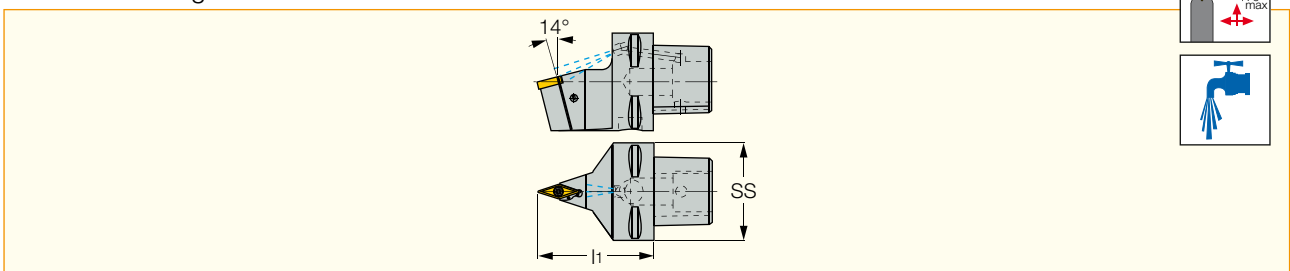
Designation	Seat	Seat 1	Locking Pin	Key	Clamp	Right-Left Screw	Key 1	Coolant Nozzle
C4 MVJNL-27050-16	IVSN 322	IYSN 322 ⁽¹⁾ *	NL 34-L	HW 2.0	CL 30	XNS 510	HW 4.0	EZ 62

* Optional, should be ordered separately

⁽¹⁾ Use for YNMG inserts

C#-SVVNN-F

72.5° Lead Angle Tools, for 35° Negative Inserts with
CAMFIX Exchangeable Shanks



Designation	SS	l ₁	Insert
C4 SVVNN-00050-12F	40	50.00	VN.. 12T3

For inserts: VNMG-SF • VNMG/VNGG-NF • VNMM-PP .

Spare Parts



Designation	Screw	Key	Wedge	Wedge Pin	Coolant Nozzle
C#-SVVNN-F	SR 14-551	T-9/5	AV 12	PA 12	EZ 83

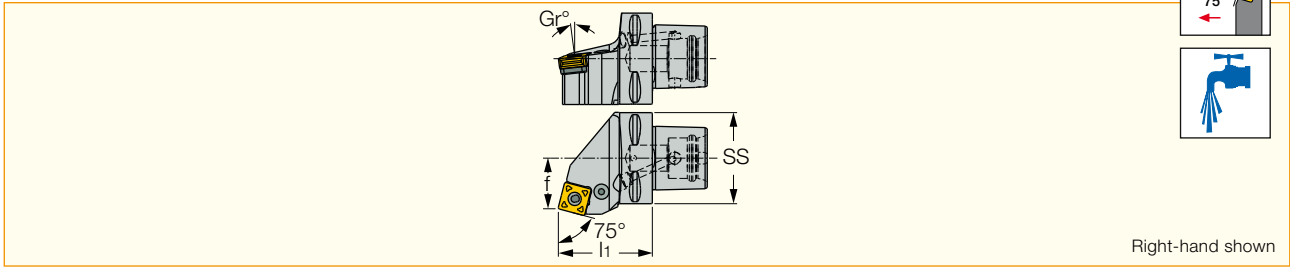
DOVE IQ TURN • CAMFIX

HEAVY DUTY LINE

C#-PSROR/L-IQ

Lever Lock and Dovetail Pocket Tools with CAMFIX Shanks for Unique Double-Sided Square Inserts

Quick Change
High Precision
Tools and Holders for
MAXIMUM
MACHINING PERFORMANCE



Right-hand shown

Designation	SS	f	l ₁	G _a °	G _r °	Insert
C6 PSROR/L-35065-15-IQ	63	35.0	65.00	-4.74	-7.46	SOMG 1506
C6 PSROR/L-35065-19-IQ	63	35.0	65.00	-4.74	-7.46	SOMG 1906

For inserts: SOMG-R3P-IQ

Spare Parts

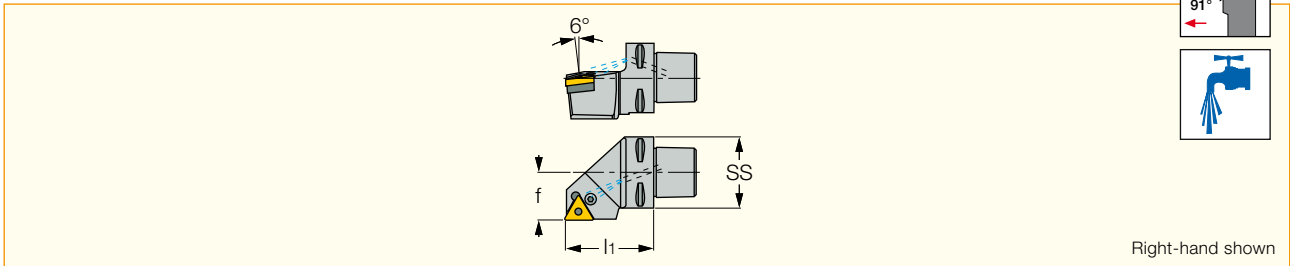


Designation	Seat	Lever	Spring Pin	Coolant Nozzle	Key	Screw
C6 PSROR/L-35065-15-IQ	TSX 5-IQ	LCL 16-NX	SP 5	SATZ-M10X1-M5	HW 3.0	SR LCS 5-L25.5
C6 PSROR/L-35065-19-IQ	TSX 6-IQ	LCL 20C-NX	SP 5	SATZ-M10X1-M5	HW 4.0	SR 10402352

ISOTURN • CAMFIX

C#-PTGNL

91° Lead Angle Tools, for Negative Triangular Inserts with CAMFIX Exchangeable Shanks



Right-hand shown

Designation	SS	f	l ₁	Insert
C4 PTGNL-27050-16	40	27.0	50.00	TN.. 1604

• Use TTN 332 seat for inserts 3.18 mm thick

For inserts: TNGA-Ceramic • TNGA-M3 (CBN) • TNGA-MC/M6 (CBN) • TNGG-M6HF/M6HM (CBN) • TNMA • TNMA (CBN) • TNMG-F3M • TNMG-F3P • TNMG-GN • TNMG-M3M • TNMG-M3P • TNMG-NF • TNMG-PF • TNMG-SF • TNMG-TF • TNMG-VL • TNMG/TNGG-PP • TNMM-RP • TNMS-12 .

Spare Parts



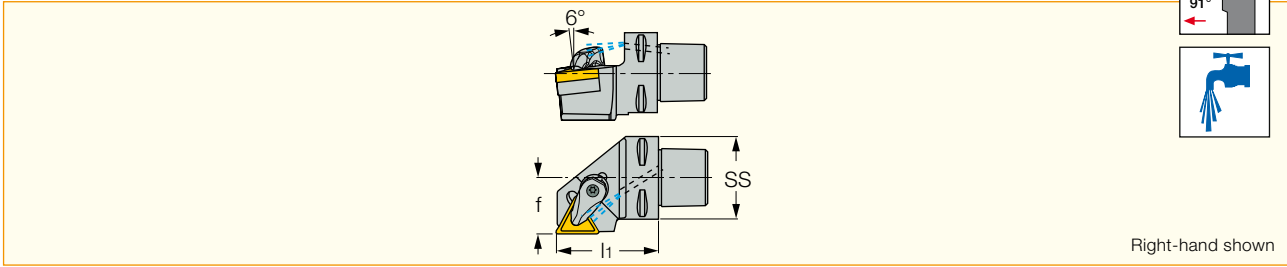
Designation	Seat	Seat 1	Spring Pin	Punch	Screw	Lever	Hex Flag Key	Coolant Nozzle
C4 PTGNL-27050-16	TTN 322	TTN 332*	SP 3	PN 3-4	SR 117-2014	LR 3	HW 2.5/5	EZ 83

* Optional, should be ordered separately

ISOTURN • CAMFIX

C#-DTGNR/L

Tools with CAMFIX Exchangeable Tapered Shanks, for Negative Triangular Inserts



Designation	SS	f	l ₁	Insert
C6 DTGNR/L-45065-22	63	45.0	65.00	TN.. 22

For insert: TNGA-Ceramic • TNMA • TNMG-F3M • TNMG-F3P • TNMG-GN • TNMG-M3M • TNMG-M3P • TNMG-TF • TNMG/TNGG-PP • TNMM-NR • TNMM-RP • TNMS-12 .

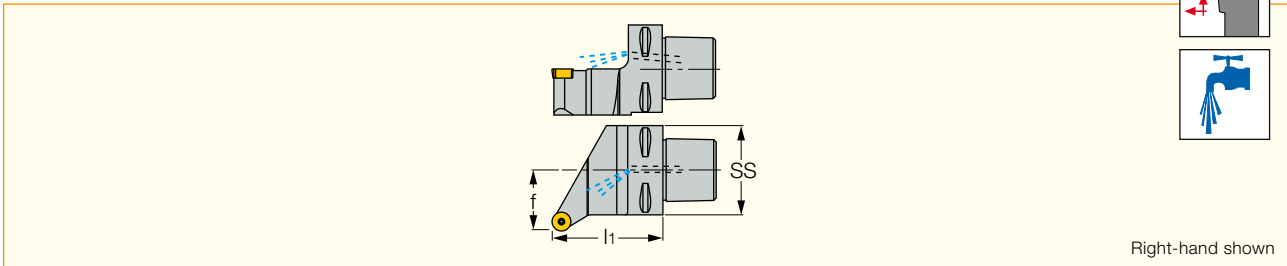
Spare Parts



Designation	Seat	Seat Screw	Clamp	Right-Left Screw	Key	Coolant Nozzle
C6 DTGNR/L-45065-22	RTT 443	SR 14-506	LCGR-4	SR 10400270-25.5	T-15/5	EZ 104

C#-SRGCR/L

Screw Lock Tools for Round Inserts with 7° Clearance Angle and CAMFIX Exchangeable Shanks



Designation	SS	f	l ₁	Insert
C5 SRGCR/L-35060-10	50	35.0	60.00	RCMT 10T3MO
C5 SRGCR/L-35060-12	50	35.0	60.00	RCMT 1204MO

For inserts: RCGT-AS • RCMT-14 .

Spare Parts



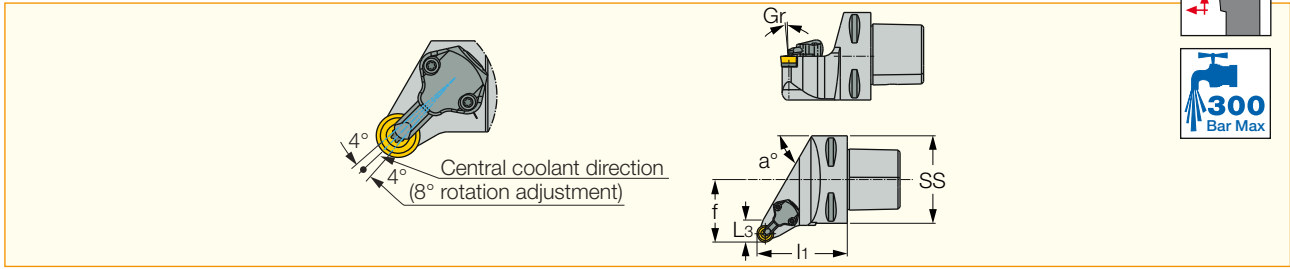
Designation	Seat	Seat Screw	Key	Screw	Key 1	Coolant Nozzle
C5 SRGCR/L-35060-10	TRC 3-0	SR TC-3	HW 2.5	SR 16-236	T-15/5	EZ 83
C5 SRGCR/L-35060-12	TRC 4-0	SR TC-4	HW 3.0	SR 16-212	T-20/5	EZ 104

ISOTURN • JETHPLINE • CAMFIX

C#-SRGCR-12-JHP

Screw Lock Tools for Round Inserts with 7° Clearance Angle and CAMFIX Exchangeable Shanks

Quick Change
High Precision
Tools and Holders for
MAXIMUM
MACHINING PERFORMANCE



Designation	SS	f	l ₁	a°	L ₃	Insert
C6 SRGCR-45065-12-JHP	63	45.0	65.00	60	16.00	RCMT 1204MO

For inserts: RCMT-14.

Spare Parts

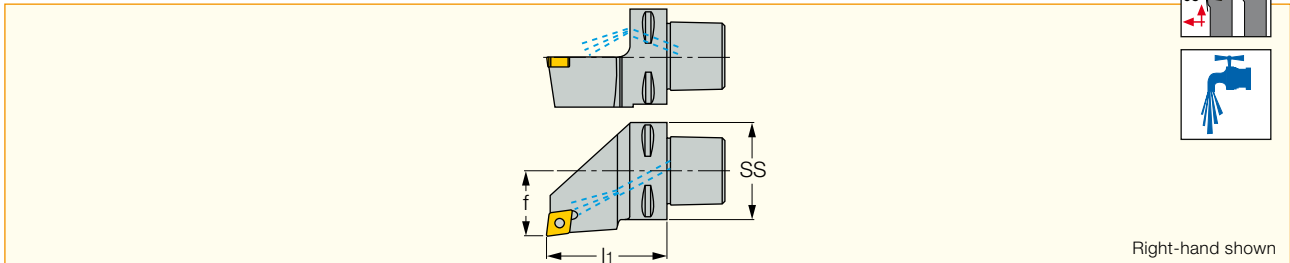


Designation	Seat	Seat Screw	Key	Screw	Key 1	Cooling Unit	O-Ring	Key 2
C6 SRGCR-45065-12-JHP	TRC 4-0	SR TC-4	T-20/5	SR 16-212	HW 3.0	CU-R-JHP	OR 6.4X0.9N	T-8/5

ISOTURN • CAMFIX

C#-SCLCL

Screw Lock Tools with CAMFIX Exchangeable Shanks, for 80° Rhombic Inserts with 7° Clearance Angle



Designation	SS	f	l ₁	Insert
C4 SCLCL-27050-09	40	27.0	50.00	CC.. 09T3

For inserts: CCET-WF • CCGT-AF • CCGT-AS • CCGW/CCMW-M2 (CBN) • CCMT (CBN) • CCMT (PCD) • CCMT-14 • CCMT-F3M • CCMT-F3P • CCMT-M3M • CCMT-M3P • CCMT-PF • CCMT-WG • CCMT/CCGT • CCMT/CCGT-SM .

Spare Parts

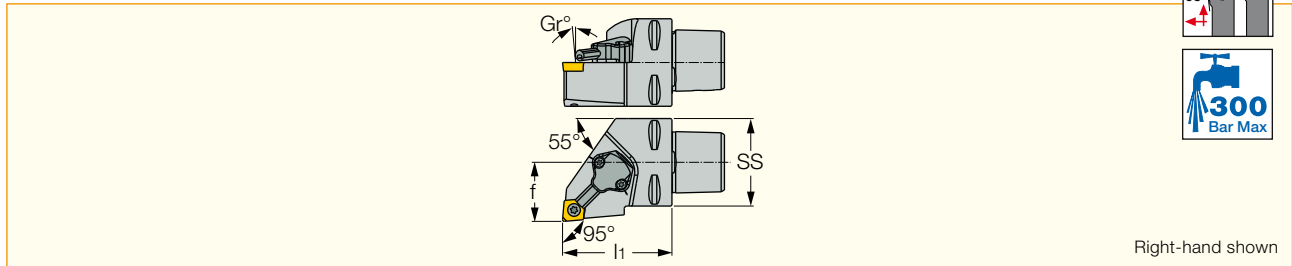


Designation	Screw	Key	Coolant Nozzle
C#-SCLCL	SR 16-236	T-15/5	EZ 83

ISOTURN • JET HPLINE • CAMFIX

C#-SCLCR/L-JHP

Screw Clamp Tools for Positive 80° Rhombic Inserts and CAMFIX Shanks, with Channels for High Pressure Coolant



Designation	SS	f	l1	Ga°	Gr°	Insert
C3 SCLCR-22045-09-JHP	32	22.0	45.00	0	0	CC.. 09T3
C4 SCLCR/L 27050-09-JHP	40	27.0	50.00	0	0	CC.. 09T3
C5 SCLCR/L 35060-09-JHP	50	35.0	60.00	0	0	CC.. 09T3

For inserts: CCET-WF • CCGT-AF • CCGT-AS • CCGW/CMW-M2 (CBN) • CCMT (CBN) • CCMT (PCD) • CCMT-14 • CCMT-F3M • CCMT-F3P • CCMT-M3M • CCMT-M3P • CCMT-PF • CCMT-WG • CCMT/CCGT • CCMT/CCGT-SM.

Spare Parts

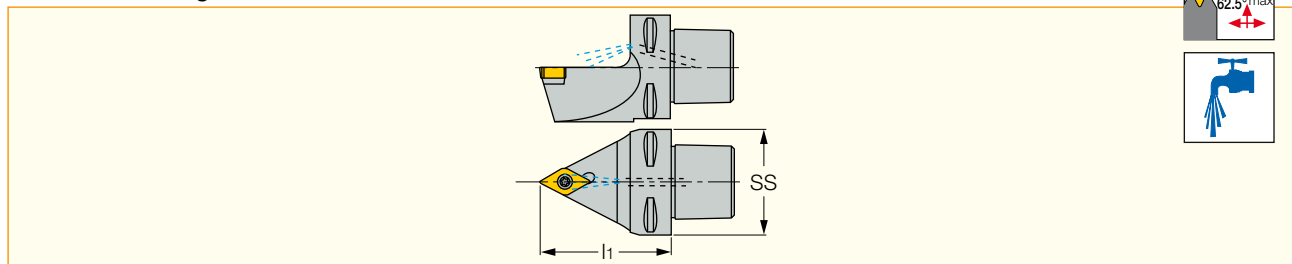


Designation	Cooling Unit Screw	Key
C#-SCLCR/L-JHP	CU-CW-JHP SR 16-236	T-15/5

ISOTURN • CAMFIX

C#-SDNCN

Screw Lock Tools for 55° Rhombic Inserts with 7° Clearance Angle and CAMFIX Exchangeable Shanks



Designation	SS	l1	Insert
C4 SDNCN-00050-11	40	50.00	DC.. 11T3
C5 SDNCN-00060-11	50	60.00	DC.. 11T3

For inserts: DCGT-AF • DCGT-AS • DCGW/DCMW-M2/S2 (CBN) • DCMT (CBN) • DCMT (PCD) • DCMT-14 • DCMT-F3M • DCMT-F3P • DCMT-M3M • DCMT-M3P • DCMT-PF • DCMT/DCGT • DCMT/DCGT-SM.

Spare Parts



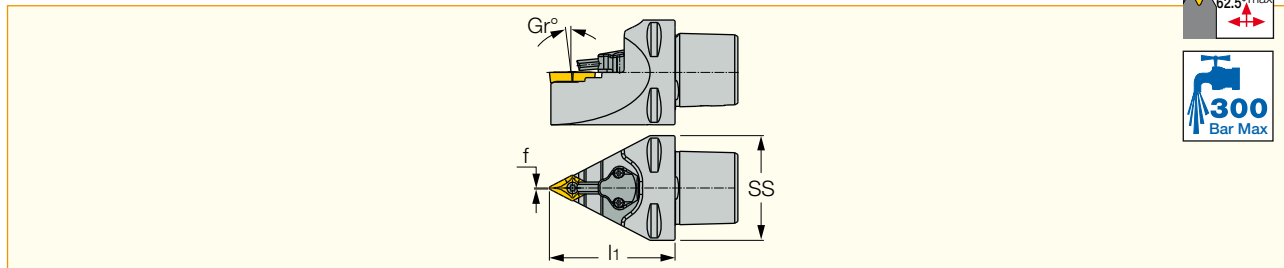
Designation	Seat	Seat Screw	Key	Screw	Key 1	Coolant Nozzle
C#-SDNCN	TDC 3-1P	SR TC-3P	HW 4.0	SR 16-236 P	T-15/5	EZ 104

SAFE-T-LOCK • JET HPLINE • CAMFIX

C#-SDNCN-13-SL-JHP

Screw Clamp Tools for Positive 55° Rhombic Inserts and CAMFIX Shanks, with Channels for High Pressure Coolant

Quick Change
High Precision
Tools and Holders for
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MACHINING PERFORMANCE



Designation	SS	f	l ₁	G _a °	G _r °	Insert
C3 SDNCN-00045-13-SL-JHP	32	0.5	45.00	0	0	DCMT 13T5-SL
C4 SDNCN-00060-13-SL-JHP	40	0.5	60.00	0	0	DCMT 13T5-SL
C5 SDNCN-00060-13-SL-JHP	50	0.5	60.00	0	0	DCMT 13T5-SL

For inserts: DCMT-F3P-SL • DCMT-M3M-SL • DCMT-PF-SL • DCMT-SM-SL .

Spare Parts

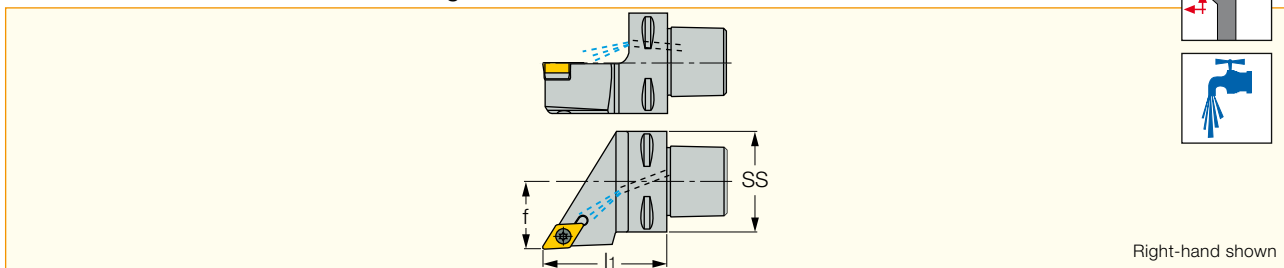


Designation	Cooling Unit	Key	Screw
C#-SDNCN-13-SL-JHP	CU-D-JHP	IP-15/5	SR M4X0.7-L9.5 IP15

ISOTURN • CAMFIX

C#-SDJCR/L

Screw Lock Toolholders with CAMFIX Exchangeable, Tapered Shanks for 55° Rhombic Inserts with 7° Clearance Angle



Designation	SS	f	l ₁	Insert
C4 SDJCR-27050-11	40	27.0	50.00	DC.. 11T3
C5 SDJCR/L-35060-11	50	35.0	60.00	DC.. 11T3

For inserts: DCET-WF • DCGT-AF • DCGT-AS • DCGW/DCMW-M2/S2 (CBN) • DCMT (CBN) • DCMT (PCD) • DCMT-14 • DCMT-F3M • DCMT-F3P • DCMT-M3M • DCMT-M3P • DCMT-PF • DCMT/DCGT • DCMT/DCGT-SM .

Spare Parts

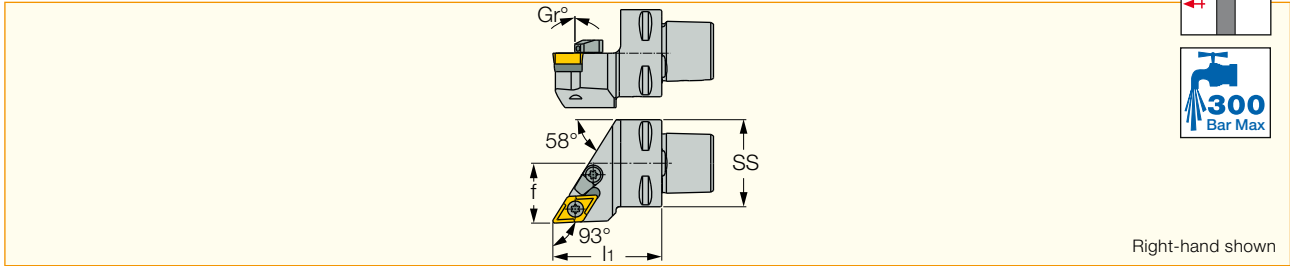


Designation	Seat	Seat Screw	Key	Screw	Key 1	Coolant Nozzle
C4 SDJCR-27050-11	TDC 3-1P	SR TC-3P	HW 4.0	SR 16-236 P	T-15/5	EZ 83
C5 SDJCR/L-35060-11	TDC 3-1P	SR TC-3P	HW 4.0	SR 16-236 P	T-15/5	EZ 104

ISOTURN • JET HPLINE • CAMFIX

C#-SDJCR/L-JHP

Screw Clamp Tools for Positive 55° Rhombic Inserts and CAMFIX Shanks, with Channels for High Pressure Coolant



Designation	SS	f	l ₁	Insert
C3 SDJCR-22040-11-JHP	32	22.0	40.00	DC.. 11T3

For inserts: DCET-WF • DCGT-AF • DCGT-AS • DCGW/DCMW-M2/S2 (CBN) • DCMT (CBN) • DCMT (PCD) • DCMT-14 • DCMT-F3P • DCMT-M3M • DCMT-PF • DCMT/DCGT • DCMT/DCGT-SM .

Spare Parts

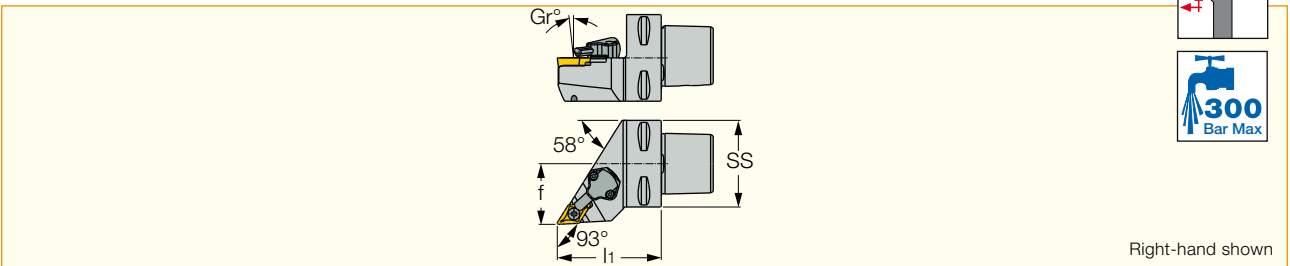


Designation	Coolant Unit Seat	Bushing	Key	Screw	Torx Key
C3 SDJCR-22040-11-JHP	CU-CW-JHP	TDC 3-1P	SR TC-3P	HW 4.0	SR 16-236 P T-15/5

SAFE-T-LOCK • JET HPLINE • CAMFIX

C#-SDJCR/L-13-SL-JHP

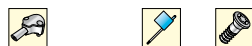
Screw Clamp Tools for Positive 55° Rhombic Inserts and CAMFIX Shanks, with Channels for High Pressure Coolant



Designation	SS	f	l ₁	G _a °	G _r °	Insert
C3 SDJCR-22045-13-SL-JHP	32	22.0	45.00	0	0	DCMT 13T5-SL
C4 SDJCL-27055-13-SL-JHP	40	27.0	55.00	0	0	DCMT 13T5-SL
C4 SDJCR 27055-13-SL-JHP	40	27.0	55.00	0	0	DCMT 13T5-SL
C5 SDJCR/L-35060-13-SL-JHP	50	35.0	60.00	0	0	DCMT 13T5-SL

For inserts: DCMT-F3P-SL • DCMT-M3M-SL • DCMT-PF-SL • DCMT-SM-SL .

Spare Parts

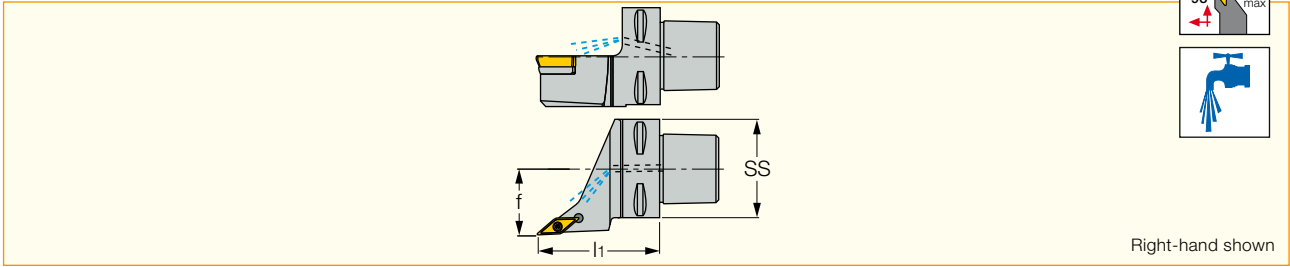
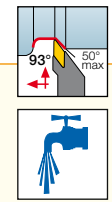


Designation	Cooling Unit	Key	Screw
C#-SDJCR/L-13-SL-JHP	CU-D-JHP	IP-15/5	SR M4X0.7-L9.5 IP15

ISOTURN • CAMFIX

C#-SVJCR/L

Screw Lock Tools for 35° Rhombic Inserts with 7° Clearance Angle and CAMFIX Exchangeable Shanks



Designation	SS	f	l ₁	Insert
C4 SVJCR/L-27050-11	40	27.0	50.00	VC.. 1103
C4 SVJCR/L-27050-16	40	27.0	50.00	VC.. 1604
C5 SVJCR-35060-11	50	35.0	60.00	VC.. 1103
C5 SVJCR/L-35060-16	50	35.0	60.00	VC.. 1604
C6 SVJCR/L-45065-16	63	45.0	65.00	VC.. 1604

For inserts: VCET-WF • VCGT (PCD) • VCGT-AS • VCGT-DW (PCD) • VCMT (CBN) • VCMT-14 • VCMT-F3M • VCMT-F3P • VCMT-M3M • VCMT-M3P • VCMT-SM • VCMW .

Spare Parts

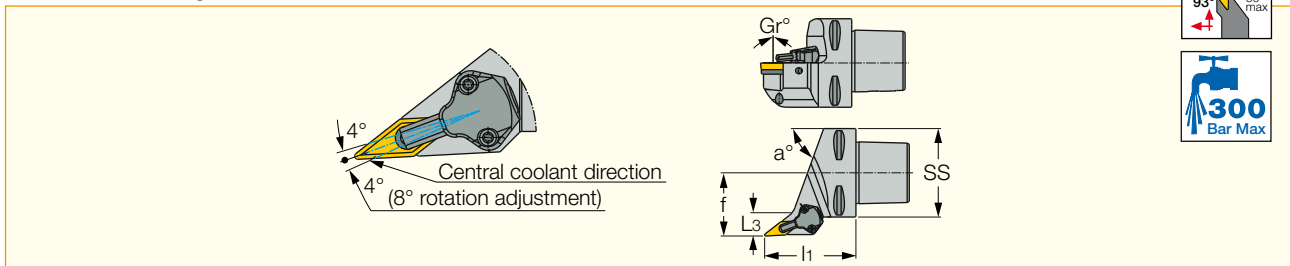
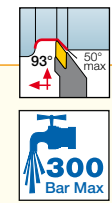


Designation	Seat	Seat Screw	Key	Screw	Key 1	Coolant Nozzle
C4 SVJCR/L-27050-11				SR 14-560/S	T-8/5	EZ 83
C4 SVJCR/L-27050-16	TVC 3-1	SR TC-3	HW 2.5	SR 16-236 P	T-15/5	EZ 83
C5 SVJCR-35060-11				SR 14-560/S	T-8/5	EZ 104
C5 SVJCR/L-35060-16	TVC 3-1	SR TC-3	HW 2.5	SR 16-236 P	T-15/5	EZ 104
C6 SVJCR/L-45065-16	TVC 3-1	SR TC-3	HW 2.5	SR 16-236 P	T-15/5	EZ 125

ISOTURN • JET HPLINE • CAMFIX

C#-SVJCR/L-JHP

Screw Lock Tools for 35° Rhombic Inserts with 7° Clearance Angle and CAMFIX Exchangeable Shanks



Designation	SS	f	l ₁	G _a °	G _r °	a°	L ₃	Insert
C3 SVJCR-22040-11-JHP	32	22.0	40.00	0	0	55	-	VCMT 1103
C4 SVJCR/L-27055-16-JHP	40	27.0	55.00	0	0	55	-	VCMT 1604
C5 SVJCR/L-35060-16-JHP	50	35.0	60.00	0	0	55	-	VCMT 1604
C6 SVJCR-45065-16-JHP	63	45.0	65.00	0	0	70	16.80	VCMT 1604

For inserts: VCET-WF • VCGT (PCD) • VCGT-AS • VCGT-DW (PCD) • VCMT (CBN) • VCMT-14 • VCMT-F3M • VCMT-F3P • VCMT-M3M • VCMT-M3P • VCMT-SM • VCMW .

Spare Parts

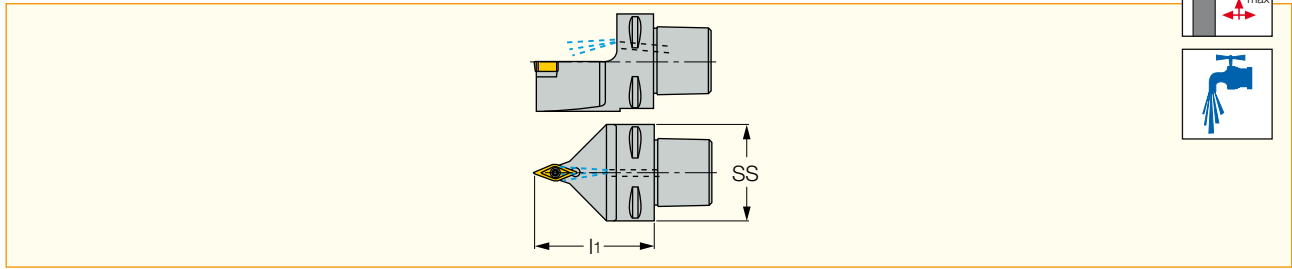


Designation	Seat	Seat Screw	Key	Screw	Cooling Unit	Key 2
C#-SVJCR/L-JHP	TVC 3-1	SR TC-3	T-15/5	SR 16-236 P	CU-V-JHP	HW 2.5

ISOTURN • CAMFIX

C#-SVVCN

Screw Lock Tools for 35° Rhombic Inserts with 7° Clearance Angle and CAMFIX Exchangeable Shanks



Designation	SS	l ₁	Insert
C4 SVVCN-00050-11	40	40.00	VC.. 1103
C4 SVVCN-00050-16	40	40.00	VC.. 1604
C5 SVVCN-00060-16	50	50.00	VC.. 1604

For inserts: VCGT (PCD) • VCGT-AS • VCGT-DW (PCD) • VCMT (CBN) • VCMT-14 • VCMT-F3M • VCMT-F3P • VCMT-M3M • VCMT-M3P • VCMT-SM • VCMW .

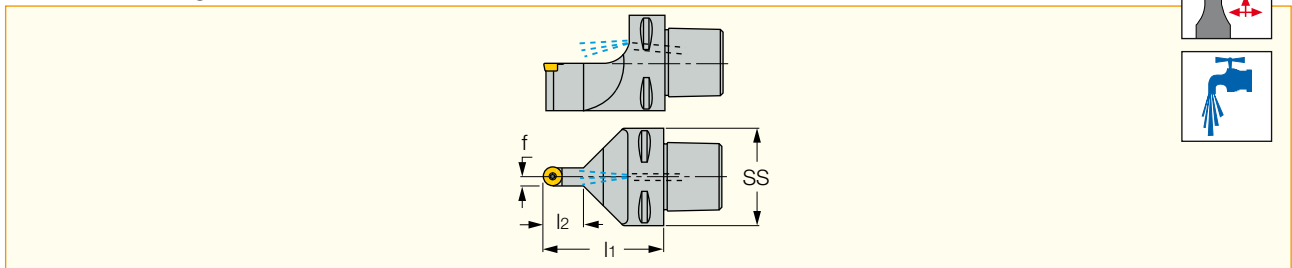
Spare Parts



Designation	Seat	Seat Screw	Key	Screw	Key 1	Coolant Nozzle
C4 SVVCN-00050-11				SR 14-560/S	T-8/5	EZ 83
C4 SVVCN-00050-16	TVC 3-1	SR TC-3	HW 2.5	SR 16-236 P	T-15/5	EZ 83
C5 SVVCN-00060-16	TVC 3-1	SR TC-3	HW 2.5	SR 16-236 P	T-15/5	EZ 125

C#-SRDCN

Neutral Tools for Round Inserts with 7° Clearance Angle and CAMFIX Exchangeable Shanks



Designation	SS	f	l ₁	l ₂	Insert
C5 SRDCN-00060-10	50	5.0	60.00	18.0	RC.. 10T3MO

For inserts: RCGT-AS • RCMT-14 .

Spare Parts



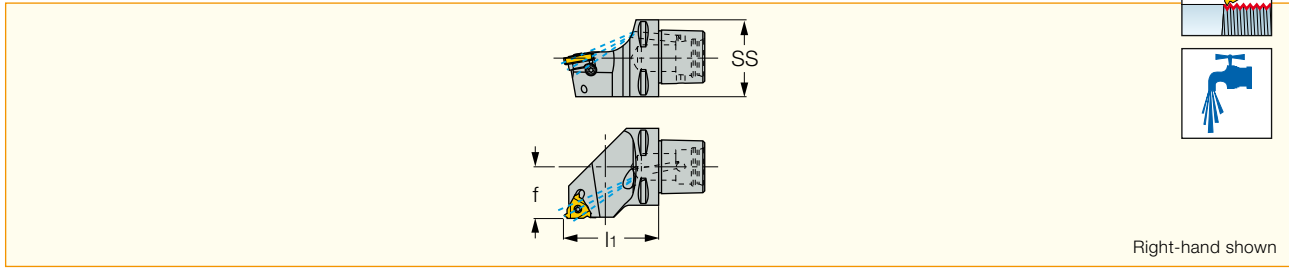
Designation	Seat	Seat Screw	Key	Screw	Key 1	Coolant Nozzle
C5 SRDCN-00060-10	TRC 3-0	SR TC-3	HW 2.5	SR 16-236	T-15/5	EZ 104

ISCAR THREAD • CAMFIX

C#-SER

External Threading Tools with CAMFIX Exchangeable Shanks

Quick Change
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Tools and Holders for
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Right-hand shown

Designation	SS	f	l1	Insert
C4 SER 27050-16	40	27.0	50.00	16ER
C5 SER 35060-16	50	35.0	60.00	16EL

For inserts: ER-MJ • ER-NPTF • ER-PG • ER/L-55° • ER/L-60° • ER/L-ABUT • ER/L-ACME • ER/L-API RD • ER/L-BSPT • ER/L-ISO • ER/L-NPT • ER/L-RND • ER/L-SAGE • ER/L-STACME • ER/L-TR • ER/L-UN • ER/L-UNJ • ER/L-W • GTGA • GTMA .

Spare Parts



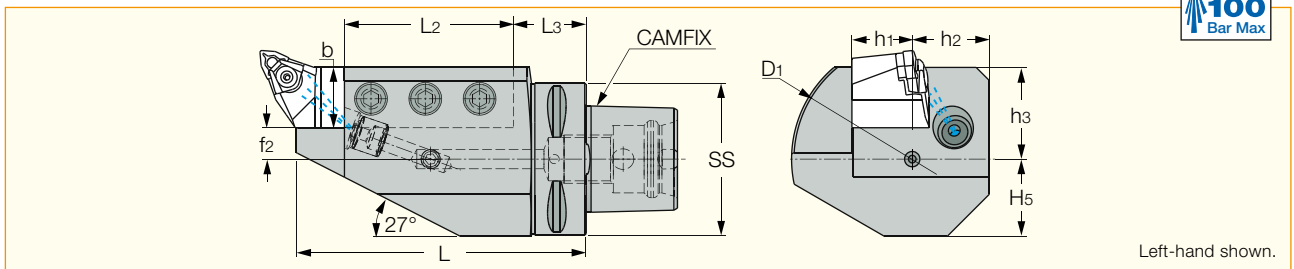
Designation	Anvil Ext./Int. Right	Anvil Screw	Insert Screw	Key	Coolant Nozzle
C4 SER 27050-16	AE16	A16	S16	T-10/5	EZ 83
C5 SER 35060-16	AE16	A16	S16	T-10/5	EZ 104

EXCHANGEABLE HEADS TOOLHOLDERS



C#-ASHR/L

Holders with CAMFIX Exchangeable Shanks for External Square-Shank Tools



Designation	SS	L	L ₂	L ₃	f ₂	h ₁	b	h ₂	h ₃	H ₅	D ₁
C4 ASHR/L 16 1	40	104.00	70.00	34.00	16.00	16.0	16.0	20.0	23.0	20.50	60.0
C5 ASHR/L 20 1	50	98.00	63.50	24.50	10.00	20.0	20.0	33.0	30.0	29.00	90.0
C6 ASHR/L 20-1	63	100.00	63.50	36.50	20.00	20.0	20.0	33.0	30.0	29.00	90.0
C6 ASHR/L 25 1	63	120.00	70.00	30.00	13.00	25.0	25.0	32.0	38.0	32.00	100.0
C8 ASHR/L 32-1	80	140.00	95.00	35.00	8.00	32.0	32.0	32.0	40.0	40.00	110.0

Spare Parts



Designation	Screw	Key	Coolant Nozzle	Wrench
C4 ASHR/L 16 1	SR M8X16DIN915 45H	HW 5.0*	SATZ-M10X1-M5	WRENCH NOZZLE HP M10*
C5 ASHR/L 20 1	SR M10X25DIN915 45H	HW 5.0*	SATZ-M10X1-M5	WRENCH NOZZLE HP M10*
C6 ASHR/L 20-1	SR M10X25DIN915 45H	HW 5.0*	SATZ-M10X1-M5	WRENCH NOZZLE HP M10*
C6 ASHR/L 25 1	SR M12X30 DIN915 45H	HW 6.0*	SATZ-M12X1-M6	WRENCH NOZZLE HP M12*
C8 ASHR/L 32-1	SR M12X30 DIN915 45H	HW 6.0*	SATZ-M12X1-M6	WRENCH NOZZLE HP M12*

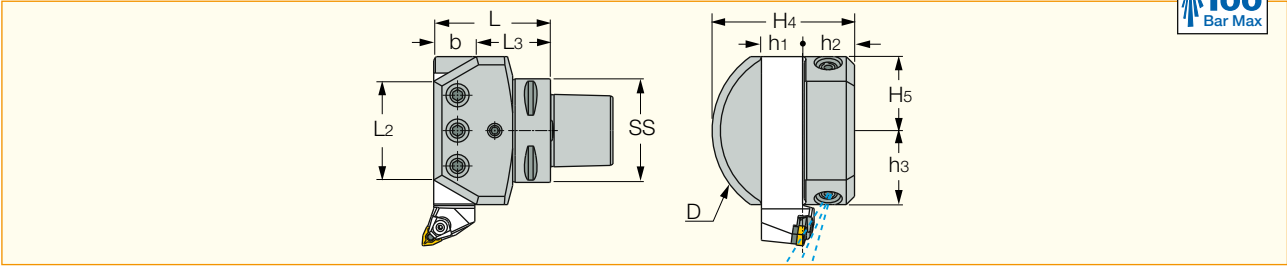
* Optional, should be ordered separately

C#-ASHA

Perpendicular Holders with CAMFIX Shanks for External Square-Shank Tools



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High Precision
Tools and Holders for
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Designation	SS	h ₁	b	L	L ₂	L ₃	h ₃	H ₅	h ₂	H ₄	D
C5 ASHA 20	50	20.0	20.0	58.00	46.00	38.00	38.0	38.00	31.5	76.5	90.00
C6 ASHA 20	63	20.0	20.0	60.00	46.00	40.00	38.0	38.00	31.5	76.5	90.00
C6 ASHA 25	63	25.0	25.0	71.00	61.00	46.00	45.0	45.00	31.6	86.6	110.00
C8 ASHA 32	80	32.0	32.0	85.00	80.00	53.00	55.0	55.00	30.0	95.0	142.00

Spare Parts

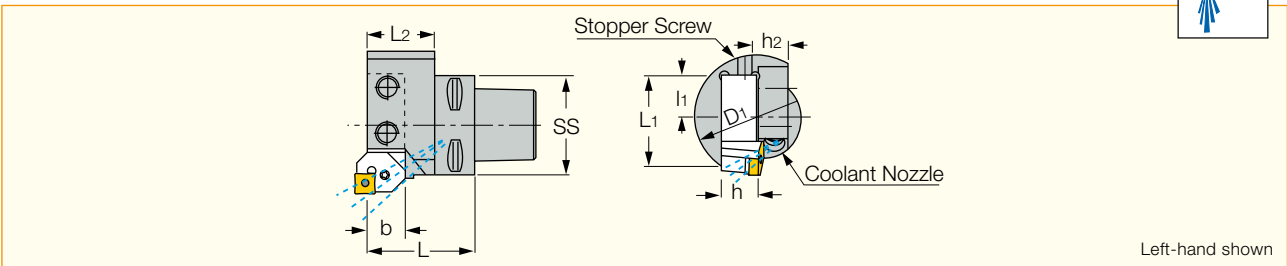


Designation	Screw	Key	Coolant Nozzle	Wrench
C5 ASHA 20	SR M10X25DIN915 45H	HW 5.0*	SATZ-M10X1-M5	WRENCH NOZZLE HP M10*
C6 ASHA 20	SR M10X25DIN915 45H	HW 5.0*	SATZ-M10X1-M5	WRENCH NOZZLE HP M10*
C6 ASHA 25	SR M12X30 DIN915 45H	HW 6.0*	SATZ-M12X1-M6	WRENCH NOZZLE HP M12*
C8 ASHA 32	SR M12X30 DIN915 45H	HW 6.0*	SATZ-M12X1-M6	WRENCH NOZZLE HP M12*

* Optional, should be ordered separately

C#-ADE

Holders with CAMFIX Exchangeable Shanks for External Square-Shank Tools



Left-hand shown

Designation	SS	F ₁	h ₁	L
C3 ADE 16L	32	25.0	16.0	45.00
C3 ADE 16R	32	25.0	16.0	45.00
C4 ADE-20L	40	25.0	20.0	49.20
C4 ADE-20R	40	25.0	20.0	49.20
C5 ADE-20L	50	25.0	20.0	55.20
C5 ADE-20R	50	25.0	20.0	55.20

Use the tools with AD suffix. Regular tools should be shortened.

Spare Parts



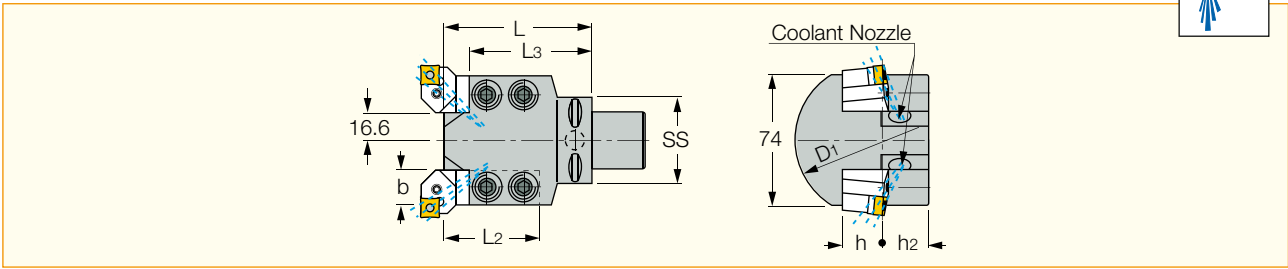
Designation	Screw	Key	Screw 1	Key 1	Coolant Nozzle
C3 ADE 16R/L	SR M10X20DIN915 45H	HW 3.0*	SR M6X8DIN916 45H ⁽¹⁾	HW 5.0*	SATZ-M8X1-M3
C4 ADE-20L	SR M10X20DIN912 12.9	HW 4.0*	SR M8X10DIN913 45H ⁽¹⁾	HW 8.0*	EZ 125
C4 ADE-20R	SR M10X20DIN912 12.9	HW 4.0*	SR M8X10DIN916 45H ⁽¹⁾	HW 8.0*	EZ 125
C5 ADE-20R/L	SR M10X16	HW 4.0*	SR M8X10DIN916 45H ⁽¹⁾	HW 8.0*	EZ 125

* Optional, should be ordered separately

⁽¹⁾ Stopper screw

C#-ADES

Holders with CAMFIX Exchangeable Shanks for External Square-Shank Tools



Designation	SS	F ₁	l ₂	L	L ₃	h	f	l ₁
C4 ADES-20	40	41.6	98.0	85.00	71.00	20.0	25.00	67.00
C5 ADES-20	50	41.6	98.0	85.00	71.00	20.0	25.00	67.00

• Use the tools with AD suffix. Regular tools should be shortened.

Spare Parts



Designation	Screw	Key 1	Screw 1	Key	Coolant Nozzle
C4 ADES-20	SR M10X16	HW 8.0	SR M6X6DIN913 45H	2 HW 4.0*	EZ 125
C5 ADES-20	SR M10X20DIN912 12.9	HW 8.0*	SR M6X6DIN916 45H	HW 4.0*	EZ 125

* Optional, should be ordered separately

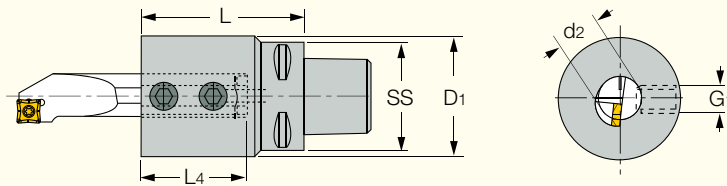


C#-ADI

Holders for Boring Bars with CAMFIX Exchangeable Shanks



Quick Change
High Precision
Tools and Holders for
MAXIMUM
MACHINING PERFORMANCE



Designation	Dimensions							Screw	Key
	SS	L	L4	d2	D1	G1			
C3 ADI 10	32	50.00	20.0	10.00	36.0	M6	SR M6X10 DIN1835B	HW 3.0*	
C3 ADI 12	32	50.00	21.5	12.00	36.0	M8	SR M8X10 DIN1835-B	HW 4.0*	
C3 ADI 16	32	50.00	29.5	16.00	36.0	M8	SR M8X10 DIN1835-B	HW 4.0*	
C4 ADI 10	40	50.00	20.0	10.00	36.0	M6	SR M6X10 DIN1835B	HW 3.0*	
C4 ADI 12	40	50.00	24.0	12.00	36.0	M8	SR M8X10 DIN1835-B	HW 4.0*	
C4 ADI 16	40	50.00	32.0	16.00	36.0	M8	SR M8X10 DIN1835-B	HW 4.0*	
C4 ADI 20	40	70.00	49.0	20.00	55.0	M12	SR M10X12 DIN1835-B	HW 5.0*	
C4 ADI 25	40	70.00	45.0	25.00	54.0	M12	SR M12X16 DIN1835-B	HW 6.0*	
C5 ADI 10	50	60.00	26.0	10.00	36.0	M6	SR M6X10 DIN1835B	HW 3.0*	
C5 ADI 12	50	60.00	26.0	12.00	36.0	M8	SR M8X10 DIN1835-B	HW 4.0*	
C5 ADI 16	50	60.00	32.0	16.00	36.0	M8	SR M8X10 DIN1835-B	HW 4.0*	
C5 ADI 20	50	75.00	49.0	20.00	55.0	M12	SR M10X12 DIN1835-B	HW 5.0*	
C5 ADI 25	50	85.00	60.0	25.00	60.0	M12	SR M12X16 DIN1835-B	HW 6.0*	
C5 ADI 32	50	100.00	76.0	32.00	68.0	M12	SR M12X16 DIN1835-B	HW 6.0*	
C6 ADI 12	60	65.00	36.0	12.00	36.0	M8	SR M8X10 DIN1835-B	HW 4.0*	
C6 ADI 16	60	65.00	36.0	16.00	36.0	M8	SR M8X10 DIN1835-B	HW 4.0*	
C6 ADI 20	60	65.00	40.0	20.00	36.0	M10	SR M10X12 DIN1835-B	HW 5.0*	
C6 ADI 25	60	76.00	51.0	25.00	54.0	M12	SR M12X16 DIN1835-B	HW 6.0*	
C6 ADI 32	60	100.00	76.0	32.00	68.0	M12	SR M12X16 DIN1835-B	HW 6.0*	
C6 ADI 40	60	100.00	76.0	40.00	98.0	M12	SR M12X16 DIN1835-B	HW 6.0*	
C6 ADI 50	60	115.00	76.0	50.00	98.0	M12	SR M12X16 DIN1835-B	HW 6.0*	
C8 ADI 12	80	70.00	36.0	12.00	36.0	M8	SR M8X10 DIN1835-B	HW 4.0*	
C8 ADI 16	80	70.00	36.0	16.00	36.0	M8	SR M8X10 DIN1835-B	HW 4.0*	
C8 ADI 20	80	70.00	40.0	20.00	36.0	M10	SR M10X12 DIN1835-B	HW 5.0*	
C8 ADI 25	80	80.00	51.0	25.00	54.0	M12	SR M12X16 DIN1835-B	HW 6.0*	
C8 ADI 32	80	110.00	86.0	32.00	68.0	M12	SR M12X16 DIN1835-B	HW 6.0*	
C8 ADI 40	80	115.00	86.0	40.00	98.0	M12	SR M12X16 DIN1835-B	HW 6.0*	
C8 ADI 50	80	115.00	86.0	50.00	98.0	M12	SR M12X16 DIN1835-B	HW 6.0*	

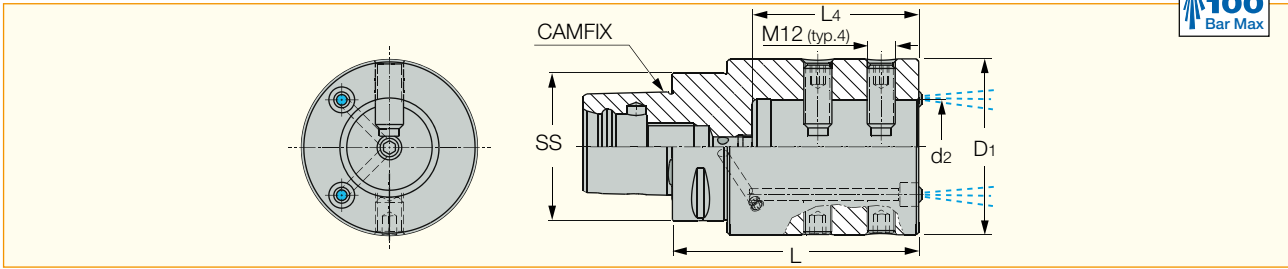
• Use the tools with "AD" suffix. Regular tools should be shortened.

* Optional, should be ordered separately



C#-ABB

Adapters with CAMFIX Exchangeable Shanks for Boring Bars with Reduction Sleeves



Designation	SS	d ₂	D ₁	L	L ₄
C4 ABB 25-60	40	25.00	63.0	100.00	60.0
C5 ABB-25-60	50	25.00	63.0	100.00	60.0
C6 ABB-25-60	63	25.00	63.0	100.00	60.0
C6 ABB-40-70	63	40.00	75.0	105.00	71.0
C8 ABB 25-60	80	25.00	63.0	100.00	60.0
C8 ABB 40-72	80	40.00	75.0	105.00	71.0

Spare Parts



Designation	Screw	Screw 1	Screw 2	Key	Coolant Nozzle	Wrench
C4 ABB 25-60	SR M10X12 DIN1835-B ⁽²⁾	SR M10X20DIN915 45H ⁽³⁾	SR M10X6DIN913 ⁽¹⁾	HW 5.0*	SATZ-M12X1-M6	WRENCH NOZZLE HP M12*
C5 ABB-25-60	SR M10X12 DIN1835-B ⁽²⁾	SR M10X20DIN915 45H ⁽³⁾	SR M10X6DIN913 ⁽¹⁾	HW 5.0*	SATZ-M12X1-M6	WRENCH NOZZLE HP M12*
C6 ABB-25-60	SR M10X12 DIN1835-B ⁽²⁾	SR M10X20DIN915 45H ⁽³⁾	SR M10X6DIN913 ⁽¹⁾	HW 5.0*	SATZ-M12X1-M6	WRENCH NOZZLE HP M12*
C6 ABB-40-70	SR M12X16 DIN1835-B ⁽²⁾	SR M12X30 DIN915 45H ⁽³⁾	SR M10X6DIN913 ⁽¹⁾	HW 6.0*	SATZ-M12X1-M6	WRENCH NOZZLE HP M12*
C8 ABB 25-60	SR M10X12 DIN1835-B ⁽²⁾	SR M10X20DIN915 45H ⁽³⁾	SR M10X6DIN913 ⁽¹⁾	HW 5.0*	SATZ-M12X1-M6	WRENCH NOZZLE HP M12*
C8 ABB 40-72	SR M12X16 DIN1835-B ⁽²⁾	SR M12X30 DIN915 45H ⁽³⁾	SR M10X6DIN913 ⁽¹⁾	HW 6.0*	SATZ-M12X1-M6	WRENCH NOZZLE HP M12*

* Optional, should be ordered separately

⁽¹⁾ Rear stopper screw

⁽²⁾ Used on A-type sleeves

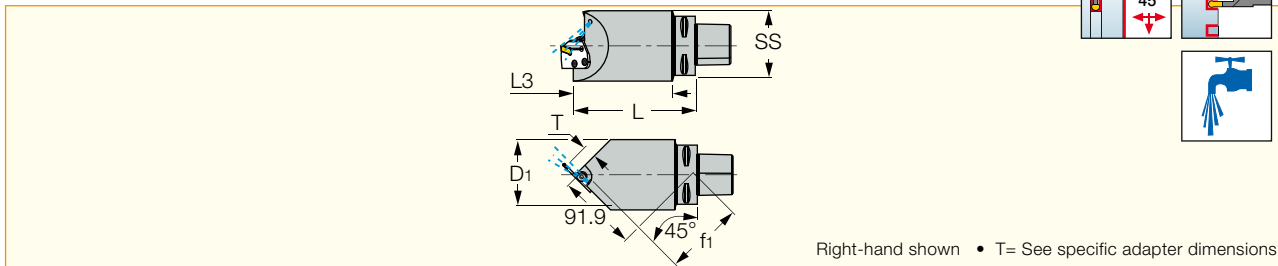
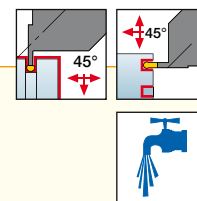
⁽³⁾ Used on B-type sleeves



MODULAR-GRIP • CAMFIX

C#-MAHDR-45

Holders for Parting, Grooving, Turning and Facing Adapters with CAMFIX Exchangeable Shanks



Right-hand shown • T= See specific adapter dimensions

Designation	SS	L	L ₁	f ₁	D ₁	L ₃
C6 MAHDR-45	63	130.00	91.9	89.0	75.0	105.78
C8 MAHDR-45	80	130.00	91.9	89.0	80.0	-

• For mill-turn machines.

Spare Parts



Designation	Lower Locking Screw	Key	Side Locking Screw	Upper Locking Screw	Key 1	Sealing Screw	Coolant Nozzle
C6 MAHDR-45	SR M5-04451	T-20/5	SR 14-519 ⁽²⁾	SR M6X20DIN7984	HW 4.0	SR M6X6DIN551 14H/22H ⁽³⁾	EZ 83
C8 MAHDR-45	SR M5-04451	T-20/5	SR 14-519 ⁽²⁾	SR M6X20-XT ⁽¹⁾	HW 5.0	SR M6X6DIN551 14H/22H ⁽³⁾	EZ 83

⁽¹⁾ For CGPAD, HGPAD, TGPAD and HFPAD adapters. Supplied with the tools.

⁽²⁾ For DGAD, HGAD and PCADR/L adapters. Supplied in the attached plastic bag.

⁽³⁾ Used to prevent chips from entering the upper locking screw hole.

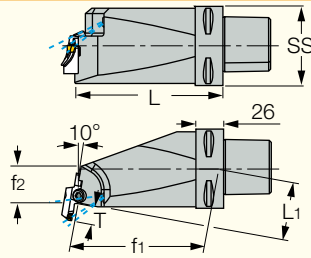
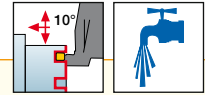


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MODULAR-GRIP • CAMFIX

C#-MAHUR/L

Holders for Parting, Grooving, Turning and Facing Adapters with CAMFIX Shanks, 10° Mounting on Mill-Turn Machines



Right-hand shown • T= See specific adapter dimensions

Designation	SS	f ₁	f ₂	L	L ₁
C6 MAHUR/L-10	63	113.1	29.00	123.00	49.4
C8 MAHUR-10	80	113.1	29.00	123.00	49.4

Spare Parts



Designation	Lower Locking Screw	Key	Side Locking Screw	Upper Locking Screw	Key 1	Sealing Screw	Coolant Nozzle
C#-MAHUR/L	SR M5-04451	T-20/5	SR 14-519 ⁽²⁾	SR M6X20-XT ⁽¹⁾	HW 5.0	SR M6X6DIN551 14H/22H ⁽³⁾	EZ 125

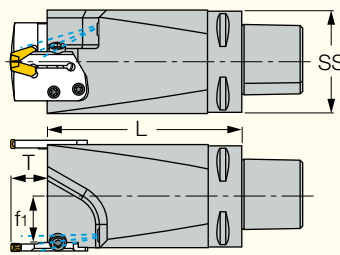
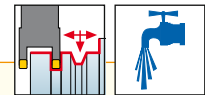
⁽¹⁾ For CGPAD, HGPAD, TGPAD and HFPAD adapters. Supplied with the tools.

⁽²⁾ For DGAD, HGAD and PCADR/L adapters. Supplied in the attached plastic bag.

⁽³⁾ Used to prevent chips from entering the upper locking screw hole.

C#-MAHDOR

Holders for Parting, Grooving, Turning and Facing Adapters with CAMFIX Exchangeable Shanks



Right-hand shown • T= See specific adapter dimensions

Designation	SS	f ₁	L
C6 MAHDOR	63	29.0	130.00
C8 MAHDOR	80	37.5	130.00

Spare Parts



Designation	Lower Locking Screw	Key	Side Locking Screw	Upper Locking Screw	Key 1	Sealing Screw	Coolant Nozzle
C#-MAHDOR	SR M5-04451	T-20/5	SR 14-519 ⁽²⁾	SR M6X20-XT ⁽¹⁾	HW 5.0	SR M6X6DIN551 14H/22H ⁽³⁾	EZ 125

⁽¹⁾ For CGPAD, HGPAD, TGPAD and HFPAD adapters. Supplied with the tools.

⁽²⁾ For DGAD, HGAD and PCADR/L adapters. Supplied in the attached plastic bag.

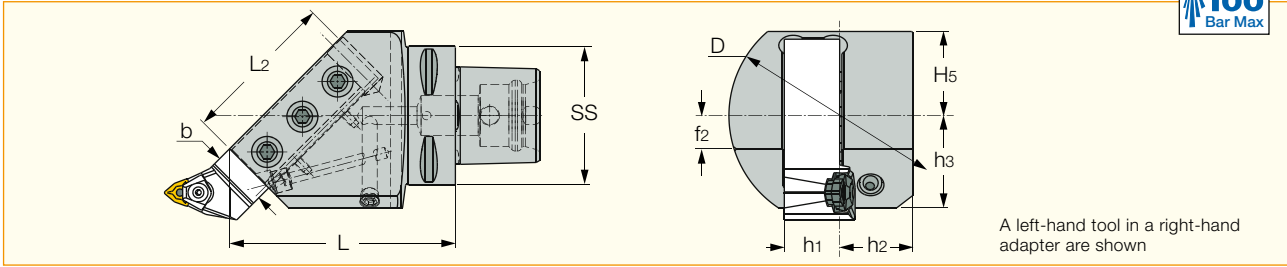
⁽³⁾ Used to prevent chips from entering the upper locking screw hole.

C#-ASHR/L-45

Holders with CAMFIX Exchangeable Shanks Carrying Square Shank Tools for 45° Mounting on Turn-Mill Machines



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MAXIMUM
MACHINING PERFORMANCE



Designation	SS	h ₁	b	L ₂	L	h ₂	h ₃	H ₅	f ₂
C5 ASHR/L 20-45	50	20.0	20.0	-	127.00	26.0	36.0	31.50	15.00
C6 ASHR/L 20-45	63	20.0	20.0	70.00	102.00	33.0	41.6	38.00	15.00
C6 ASHR/L 25-45	63	25.0	25.0	70.00	102.00	33.0	41.6	38.00	15.00
C8 ASHR/L 32-45	80	32.0	32.0	100.00	140.00	40.0	50.0	60.00	17.00

Spare Parts



Designation	Screw	Key	Coolant Nozzle	Wrench
C5 ASHR/L 20-45	SR M10X25DIN915 45H	HW 5.0*	SATZ-M10X1-M5	WRENCH NOZZLE HP M10*
C6 ASHR/L 20-45	SR M10X25DIN915 45H	HW 5.0*	SATZ-M10X1-M5	WRENCH NOZZLE HP M10*
C6 ASHR/L 25-45	SR M12X30 DIN915 45H	HW 6.0*	SATZ-M10X1-M5	WRENCH NOZZLE HP M10*
C8 ASHR/L 32-45	SR M12X30 DIN915 45H	HW 6.0*	SATZ-M12X1-M6	WRENCH NOZZLE HP M12*

* Optional, should be ordered separately

Coolant Nozzle Adjustment Instructions

In order to adjust the coolant nozzle and/or redirect the coolant, follow these steps:

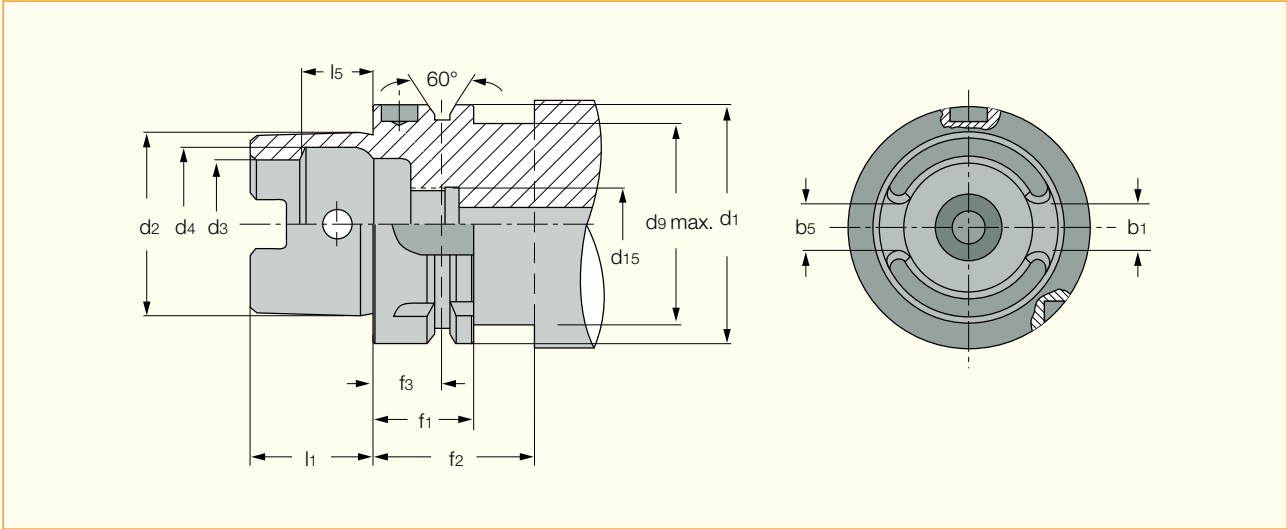
- Open the nut by turning it approximately three-quarters of a turn counterclockwise.
- Adjust the coolant nozzle so it will direct the coolant to the area of the cutting edge.
- Close the nut by turning it approximately three-quarters of a turn clockwise.
- The special (WRENCH NOZZLE HP) key should be used.



HSK DIN 69893 FORM A WH STATIONARY TOOLS

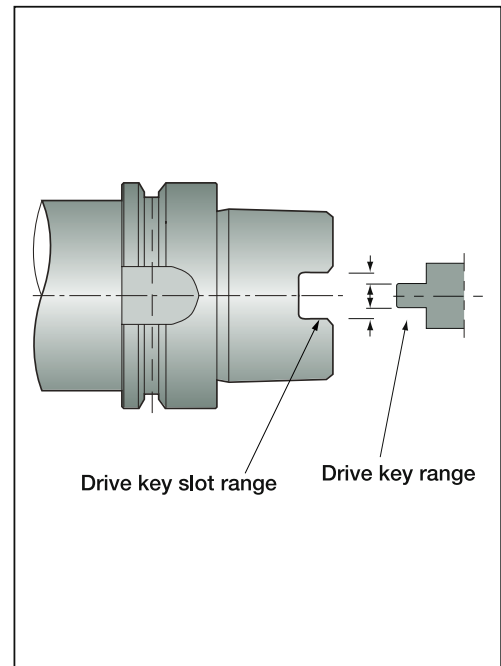
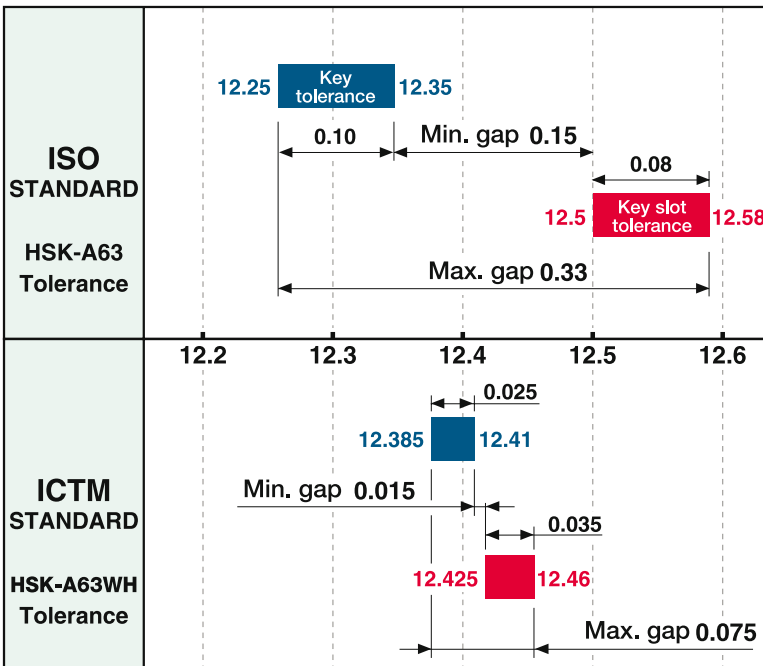


Toolholder Standard



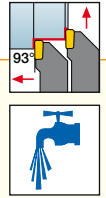
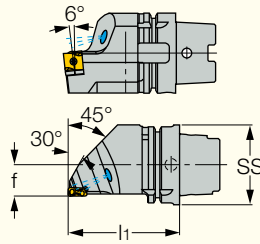
$d_1 \text{ h10}$	d_2	$d_3 \text{ H10}$	$d_4 \text{ H11}$	$d_9 \text{ max.}$	d_{15}	$l_1 -0.2$	$l_5 \text{ Js10}$	$b_1 \pm 0.04$	$b_5 \pm 0.035$	$f_1 -0.1$	$f_2 \text{ min.}$	$f_3 \pm 0.1$
63	48	34	40	62	M18X1	32	18.13	12.54	12.425	26	30	18
100	75	53	63	99	M24X1.5	50	28.56	20.02	19.91	29	34	20

HSK A vs. HSK A...WH Tolerance



HSK A63WH-SLANR-TANG

Holders with HSK Taper Shanks for LNMX-HT - High Production Cutting, Tangentially Screw Clamped Inserts



Complies with the ICTM and HSK-T standards. • Right-hand shown

Designation	SS	l ₁	f	Insert
HSK A63WH-SLANR-G15 TANG	63	90.00	25.0	LNMX 1506

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately). • ap max for facing 3.8 mm.

For inserts: LNMX-HM • LNMX-HT • LNMX-WG .

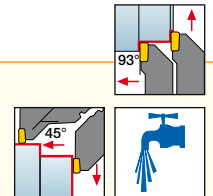
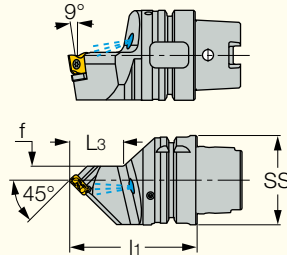
Spare Parts



Designation	Screw	T-Handle	Torx Blade	Seat	Screw 1	Key	Coolant Nozzle
HSK A63WH-SLANR-G15 TANG	SR 34-535-SN	SW6-T-SH	BLD T15/S7	TLN 15R-HT	SR RS4	T-6/5	EZ 104

HSK A63WH-SLSNR/L-TANG

Tools for 45° Mounting, with HSK Taper Shanks for LNMX-HT - High Production Cutting, Tangentially Clamped Inserts



Complies with the ICTM and HSK-T standards. • Right-hand shown

Designation	SS	l ₁	f	L ₃	Insert
HSK A63WH-SLSNL-G11 TANG	63	90.00	10.0	38.00	LNMX 1104
HSK A63WH-SLSNR-G15 TANG	63	90.00	10.0	38.00	LNMX 1506

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

For inserts: LNMX-HM • LNMX-HT • LNMX-WG .

Spare Parts

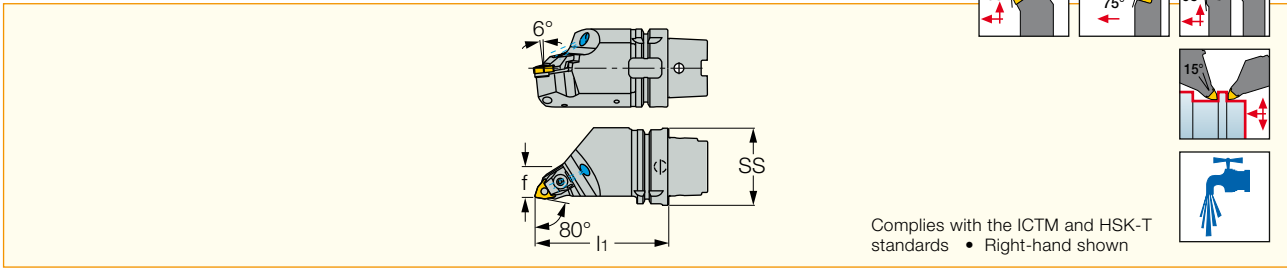


Designation	Seat	Seat Screw	Insert Screw	Key	Key 1	Torx Blade	T-Handle	Coolant Nozzle
HSK A63WH-SLSNL-G11 TANG	TLN 11L-HT	SR RS4	SR 34-550-C	T-6/5	T-10/5			EZ 104
HSK A63WH-SLSNR-G15 TANG	TLN 15R-HT	SR RS4	SR 34-535-SN	T-6/5		BLD T15/S7	SW6-T-SH	EZ 104

MULTI-WEDGE • HSK

HSK A63WH-MULNR/L-MW

MULTI-WEDGE Toolholders with HSK Taper Shanks for 80° Rhombic, Trigon and Square Inserts



Quick Change
High Precision
Tools and Holders for
MAXIMUM
MACHINING PERFORMANCE

Designation	SS	l ₁	f	G _a °	G _r °	Insert
HSK A63WH-MULNR/L-J12MW	63	110.00	25.0	-6	-6	W/C/SNMG 1204

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

For inserts: CNGA-Ceramic • CNGA-MC/M4 (CBN) • CNGA-R2/M2/F2 (CBN) • CNGG-M4HF/M4HM (CBN) • CNMA • CNMA (PCD) • CNMA-MW4 (CBN) • CNMA-T/M1/WG (CBN) • CNMG-Ceramic • CNMG-F3M • CNMG-F3P • CNMG-GN • CNMG-M3M • CNMG-M3P • CNMG-NF • CNMG-NR • CNMG-VL • CNMG-WF • CNMG-WG/NRW • CNMG/CNGG-PP • CNMG/CNGG-SF • CNMG/CNGG-TF • CNMM-M4PW • CNMM-NM • CNMM-R3P • CNMS-12 • SNGA-Ceramic • SNMA • SNMA (CBN) • SNMG-F3M • SNMG-F3P • SNMG-GN • SNMG-M3M • SNMG-M3P • SNMG-NR • SNMG-PP • SNMG-TF • SNMG-VL • SNMM-R3P • SNMM-RP • WNGA-Ceramic • WNGA-M3 (CBN) • WNGA-MC/M6 (CBN) • WNMA/WNMA-WG • WNMG-F3M • WNMG-F3P • WNMG-GN • WNMG-M3M • WNMG-M3P • WNMG-NF • WNMG-NR • WNMG-PP • WNMG-TF • WNMG-TNM • WNMG-VL • WNMG-WF • WNMG-WG • WNMN-NM .

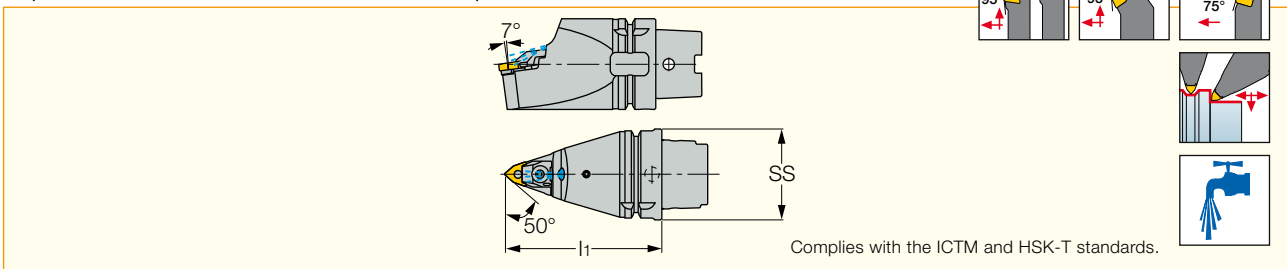
Spare Parts

Designation	Seat	Locking Pin	WNMG Insert Wedge	CNMG Insert Wedge	SNMG Insert Wedge	Wedge Screw	Key	Ring	Spring	Screw	Coolant Nozzle
HSK A63WH-MULNL-J12MW	TCN 423	ZNW 4CM	LC WN08	LCL CN12*	LCL SN12*	SR 17-307	HW 3.0	DK 17-307	SPR 17-307	SR M4X8	EZ 104
HSK A63WH-MULNR-J12MW	TCN 423	ZNW 4CM	LC WN08	LCR CN12*	LCR SN12*	SR 17-307	HW 3.0	DK 17-307	SPR 17-307	SR M4X8	EZ 104

* Optional, should be ordered separately

HSK A63WH-MUMNN-MW

MULTI-WEDGE Lock Holder for Negative, 80° Rhombic, Trigon and Square Inserts with an HSK A63WH Adaptation



Designation	SS	l ₁	Insert
HSK A63WH-MUMNN-J12MW	63	110.00	W/C/SNMG 1204

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

For inserts: CNGA-Ceramic • CNGA-MC/M4 (CBN) • CNGA-R2/M2/F2 (CBN) • CNGG-M4HF/M4HM (CBN) • CNMA • CNMA (PCD) • CNMA-MW4 (CBN) • CNMA-T/M1/WG (CBN) • CNMG-Ceramic • CNMG-F3M • CNMG-F3P • CNMG-GN • CNMG-M3M • CNMG-M3P • CNMG-NF • CNMG-NR • CNMG-VL • CNMG-WF • CNMG-WG/NRW • CNMG/CNGG-PP • CNMG/CNGG-SF • CNMG/CNGG-TF • CNMM-M4PW • CNMM-NM • CNMM-R3P • SNGA-Ceramic • SNMA • SNMA (CBN) • SNMG-F3M • SNMG-F3P • SNMG-GN • SNMG-M3M • SNMG-M3P • SNMG-NR • SNMG-PP • SNMG-TF • SNMG-VL • SNMM-R3P • SNMM-RP • WNGA-Ceramic • WNGA-M3 (CBN) • WNGA-MC/M6 (CBN) • WNMA/WNMA-WG • WNMG-F3M • WNMG-F3P • WNMG-GN • WNMG-M3M • WNMG-M3P • WNMG-NF • WNMG-NR • WNMG-PP • WNMG-TF • WNMG-TNM • WNMG-VL • WNMG-WF • WNMG-WG • WNMN-NM .

Spare Parts

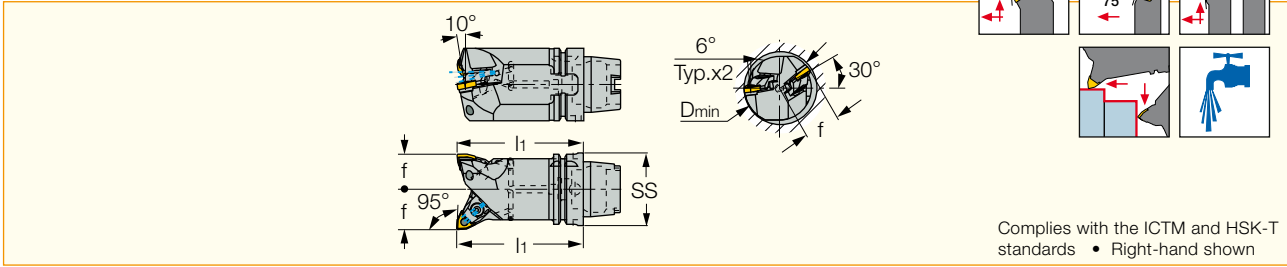
Designation	Seat	Locking Pin	WNMG Insert Wedge	CNMG Insert Wedge	SNMG Insert Wedge	Screw	Key	Ring	Spring	Coolant Nozzle	Screw 1
HSK A63WH-MUMNN-J12MW	TCN 423	ZNW 4CM	LC WN08	LCR CN12*	LCR SN12*	SR 17-307	HW 3.0	DK 17-307	SPR 17-307	EZ 83	SR M4X8

* Optional, should be ordered separately

MULTI-WEDGE • HSK

HSK A63WH-MULNR-J12MWX2

MULTI-WEDGE, Twin Toolholders with HSK Taper Shanks for 80° Rhombic, Trigon and Square Inserts



Designation	SS	l ₁	f	D _{min}	Insert
HSK A63WH-MULNR-J12MWX2	63	110.00	35.0	72.00	W/C/SNMG 1204

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

For inserts: CNGA-Ceramic • CNGA-MC/M4 (CBN) • CNGA-R2/M2/F2 (CBN) • CNGG-M4HF/M4HM (CBN) • CNMA • CNMA (PCD) • CNMA-MW4 (CBN) • CNMA-T/M1/WG (CBN) • CNMG-Ceramic • CNMG-F3M • CNMG-F3P • CNMG-GN • CNMG-M3M • CNMG-M3P • CNMG-NF • CNMG-NR • CNMG-VL • CNMG-WF • CNMG-WG/NRW • CNMG/CNGG-PP • CNMG/CNGG-SF • CNMG/CNGG-TF • CNMM-M4PW • CNMM-NM • CNMM-R3P • SNGA-Ceramic • SNMA • SNMA (CBN) • SNMG-F3M • SNMG-F3P • SNMG-GN • SNMG-M3M • SNMG-M3P • SNMG-NR • SNMG-PP • SNMG-TF • SNMG-VL • SNMM-R3P • SNMM-RP • WNGA-Ceramic • WNGA-M3 (CBN) • WNGA-MC/M6 (CBN) • WNMA/WNMA-WG • WNMG-F3M • WNMG-F3P • WNMG-GN • WNMG-M3M • WNMG-M3P • WNMG-NF • WNMG-NR • WNMG-PP • WNMG-TF • WNMG-TNM • WNMG-VL • WNMG-WF • WNMG-WG • WNMN-NM .

Spare Parts

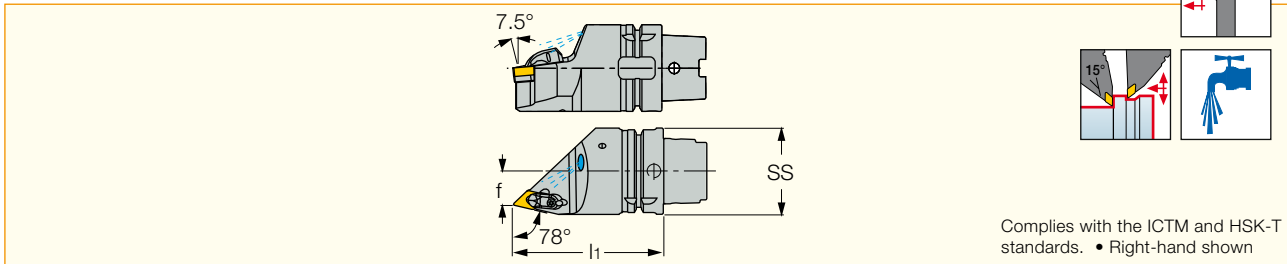
Designation	Seat	Locking Pin	WNMG Insert Wedge	CNMG Insert Wedge	SNMG Insert Wedge	Ring	Spring	Screw	Key
HSK A63WH-MULNR-J12MWX2	TCN 423	ZNW 4CMI	LC WN08	LCR CN12*	LCR SN12*	DK 17-307	SPR 17-307	SR 17-307	HW 3.0

* Optional, should be ordered separately

R-CLAMP • HSK

HSK A63WH-DDJNR/L

R-Clamp Turning Tools with HSK Taper Shank, for Negative DNMG Inserts (15° Mounting on Turn-Mill Machines)



Designation	SS	l ₁	f	Insert
HSK A63WH-DDJNR/L-J15 (1)	63	110.00	25.0	DN.. 15

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

(1) RDT 443 for DN__ 1504.. insert.

For inserts: DNGA-Ceramic • DNGA-MC/M4 (CBN) • DNGA-R2/M2 (CBN) • DNGG-M4HF/M4HM (CBN) • DNMA • DNMA (CBN) • DNMG-F3M • DNMG-F3P • DNMG-GN • DNMG-M3M • DNMG-M3P • DNMG-NF • DNMG-NR • DNMG-PF • DNMG-VL • DNMG/DNGG-PP • DNMG/DNGG-SF • DNMG/DNGG-TF • DNMM-NM • DNMS-12 • DNMX-M3P .

Spare Parts

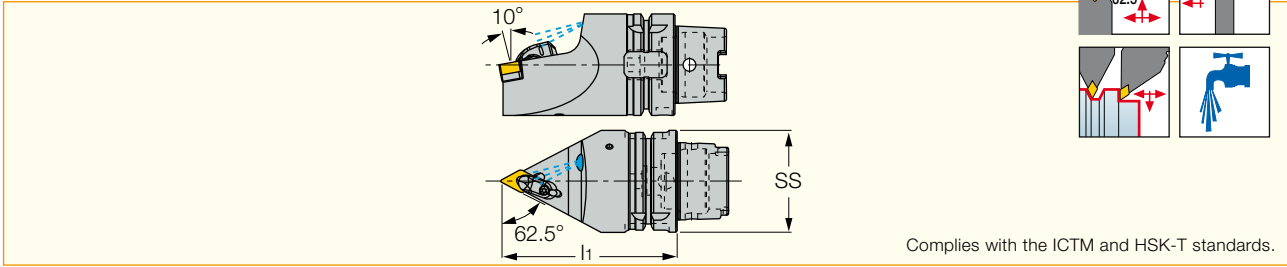
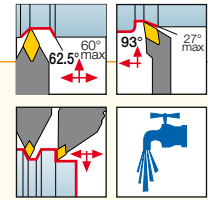
Designation	Seat	Seat 1	Seat Screw	Clamp	Right-Left Screw	Key	Coolant Nozzle
HSK A63WH-DDJNR/L-J15	RDT 433	RDT 443*	SR 14-506	LCGR-4	SR 10400270-25.5	T-15/5	EZ 104

* Optional, should be ordered separately

R-CLAMP • HSK

HSK A63WH-DDNNN

R-Clamp Turning Tools with HSK Taper Shank, for Negative DNMG Inserts



Complies with the ICTM and HSK-T standards.

Designation	SS	l ₁	Insert
HSK A63WH-DDNNN-J15 ⁽¹⁾	63	110.00	DN.. 15

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

⁽¹⁾ RDT 443 for DN_ 1504.. insert.

For inserts: DNGA-Ceramic • DNGA-MC/M4 (CBN) • DNGA-R2/M2 (CBN) • DNGG-M4HF/M4HM (CBN) • DNMA • DNMA (CBN) • DNMG-F3M • DNMG-F3P • DNMG-GN • DNMG-M3M • DNMG-M3P • DNMG-NF • DNMG-NR • DNMG-PF • DNMG-VL • DNMG-WG • DNMG/DNGG-PP • DNMG/DNGG-SF • DNMG/DNGG-TF • DNMM-NM • DNMS-12 • DNMX-M3P .

Spare Parts



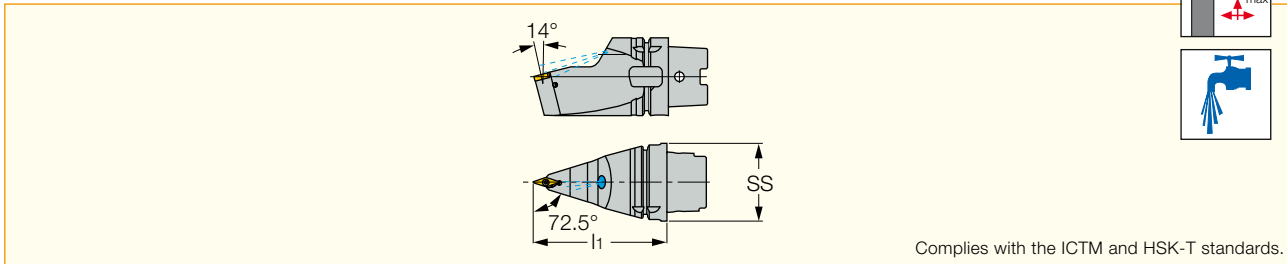
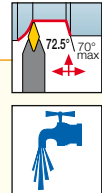
Designation	Seat	Seat 1	Seat Screw	Clamp	Right-Left Screw	Key	Coolant Nozzle
HSK A63WH-DDNNN-J15	RDT 433	RDT 443*	SR 14-506	LCGR-4	SR 10400270-25.5	T-15/5	EZ 104

* Optional, should be ordered separately

ISOTURN • HSK

HSK A63WH-SVNN-F

72.5° Lead Angle Toolholders for 35° Negative Inserts with HSK Exchangeable, Tapered Shanks



Complies with the ICTM and HSK-T standards.

Designation	SS	l ₁	Insert
HSK A63WH-SVNN-J12F	63	110.00	VNM. 12T3

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

For inserts: VNMG-SF • VNMG/VNGG-NF • VNMM-PP .

Spare Parts

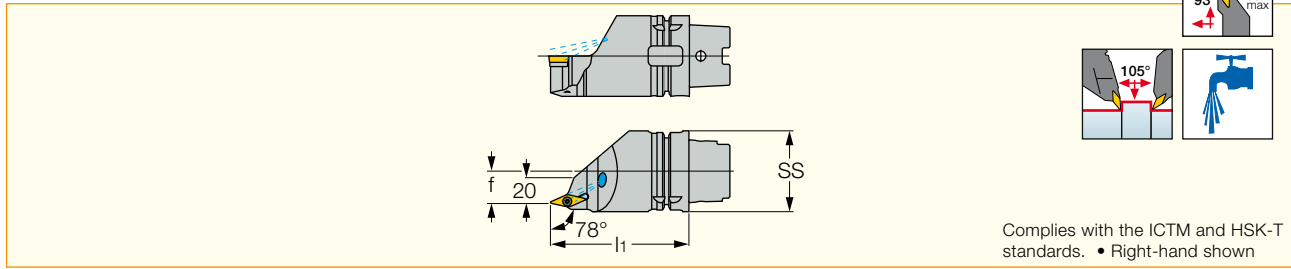


Designation	Screw	Key	Wedge	Wedge Pin	Coolant Nozzle
HSK A63WH-SVNN-J12F	SR 14-551	T-9/5	AV 12	PA 12	EZ 104

ISOTURN • HSK

HSK A63WH-SVJCR/L

Toolholders with HSK Exchangeable, Tapered Shanks for 15° Mounting on Turn-Mill Machines, Using Positive 35° Inserts

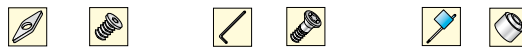


Designation	SS	l ₁	f	Insert
HSK A63WH-SVJCR/L-J16	63	110.00	25.0	VC.. 1604

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

For inserts: VCGT (PCD) • VCGT-AS • VCGT-DW (PCD) • VCMT (CBN) • VCMT-14 • VCMT-F3M • VCMT-F3P • VCMT-M3M • VCMT-M3P • VCMT-SM • VCMW .

Spare Parts

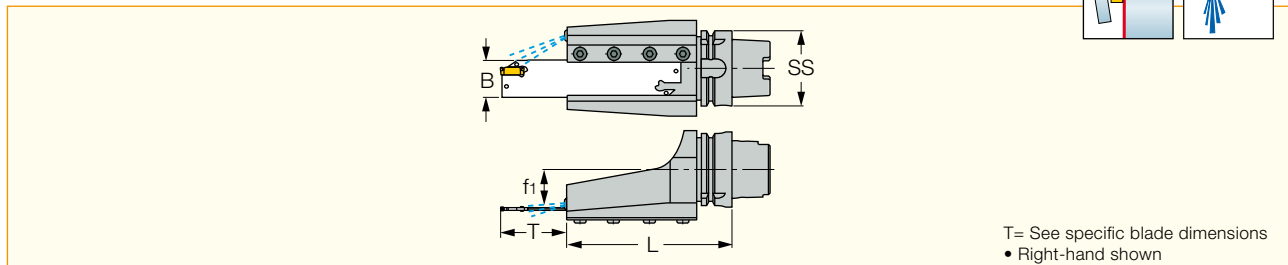


Designation	Seat	Seat Screw	Key	Insert Screw	Key 1	Coolant Nozzle
HSK A63WH-SVJCR/L-J16	TVC 3-1	SR TC-3	HW 2.5	SR 16-236 P	T-15/5	EZ 104

TOOL BLOCKS • HSK

HSK A-WH-TBK-R/L

Blocks with HSK Exchangeable Tapered Shanks for Parting and Grooving Blades



Designation	SS	L	f ₁	B ₁ ⁽¹⁾
HSK A63WH-TBK-32R/L	63	138.00	32.0	32.0
HSK A100WH-TBK-32L	100	150.00	50.0	32.0
HSK A100WH-TBK-52L	100	168.00	25.0	52.0

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately). • Complies with the ICTM and HSK-T standards.

⁽¹⁾ Blade size B₁, has to fit this dimension.

For tools, see pages: CGHN-DG (80) • CGHR/L-P8DG (77) • DGFH (78) • DGFHR/L (79) • DGFHR/L-B-D..(R/L) (80) • HGFH (79) • PCHBR/L (81) • TGFH/R/L (82) • TGFHR/L (84) • TNFFA-IQ (86) • TNFFH-IQ (85).

Spare Parts



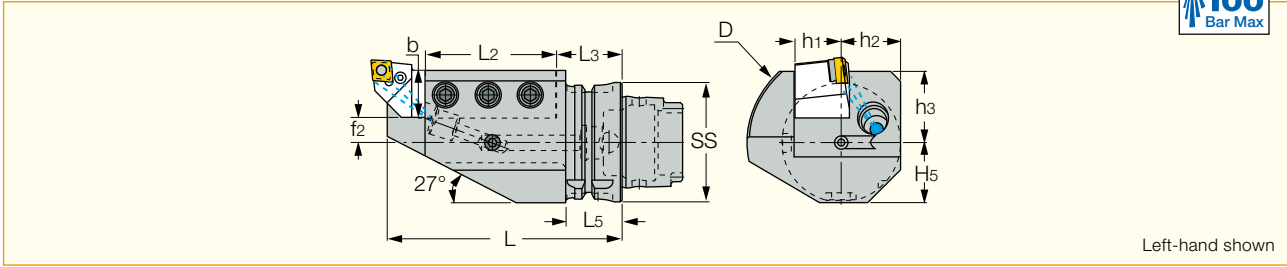
Designation	Side Clamp	Screw	Key	Coolant Nozzle
HSK A63WH-TBK-32L	BK 32-9 WEDG	SR M6X16DIN912 12.9	HW 5.0	EZ 125
HSK A63WH-TBK-32R	BK 32-9 WEDG	SR M6X16DIN912 12.9	HW 5.0	EZ 125
HSK A100WH-TBK-32L	BK 32-9 WEDG	SR M6X16DIN912 12.9	HW 5.0	SATZ-M12X1-M6

HSK A-WH-ASHR/L-1

Square Shank Tool Adapters with HSK Exchangeable Shanks for Turn-Mill Machines



Quick Change
High Precision
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MAXIMUM
MACHINING PERFORMANCE



Left-hand shown

Designation	SS	h ₁	b	f ₂	L	L ₅	L ₂	L ₃	h ₂	h ₃	H ₅	D
HSK A63WH-ASHR/L-25-1	63	25.0	25.0	13.00	125.00	30.00	70.00	35.00	32.0	38.0	32.00	100.00
HSK A100WH-ASHR/L-32-1	100	32.0	32.0	8.00	145.00	34.00	90.00	45.00	35.0	40.0	44.00	100.00

• Complies with the HSK-T (ISO 12164-3) and ICTM standards. • A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

Spare Parts

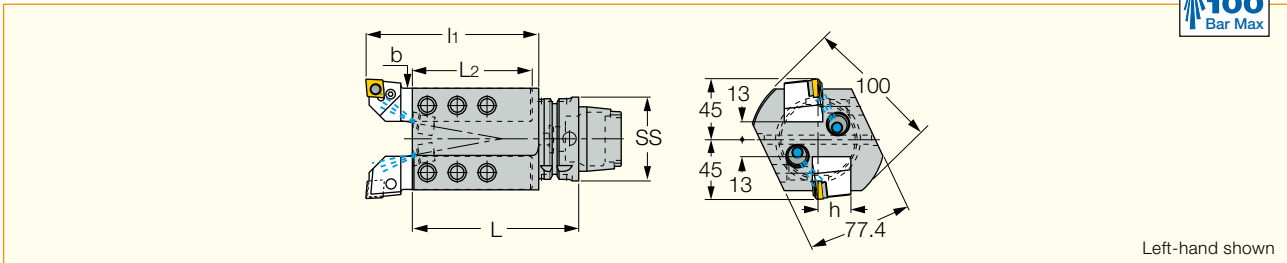


Designation	Screw	Key	Coolant Nozzle	Wrench
HSK A-WH-ASHR/L-1	SR M12X30 DIN915 45H	HW 6.0*	SATZ-M12X1-M6	WRENCH NOZZLE HP M12*

* Optional, should be ordered separately

HSK A63WH-ASHR/L-2

Twin Square Shank Tool Adapters with HSK Exchangeable Shanks for Turn-Mill Machines



Left-hand shown

Designation	SS	L	l ₁	L ₂	h	b
HSK A63WH-ASHR/L-25-2	63	125.00	160.00	95.00	25.0	25.0

• Complies with the HSK-T and ICTM standards. • A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

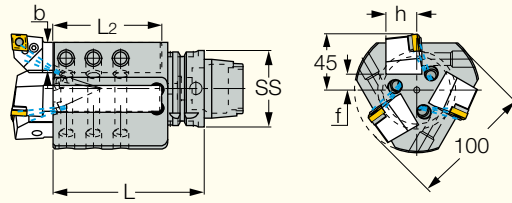
Spare Parts



Designation	Screw	Coolant Nozzle
HSK A63WH-ASHL-25-2	SR M12X30 DIN915 45H	SATZ-M12X1-M6
HSK A63WH-ASHR-25-2	SR M12X30 DIN915 45H	EZ 146

HSK A63WH-ASHR/L-3

Triple Square Shank Tool Adapters with HSK Exchangeable Shanks for 45° Mounting on Turn-Mill Machines



Left-hand shown

Designation	SS	L	L ₂	F	h	b
HSK A63WH-ASHR/L-25-3	63	125.00	90.00	45.0	25.0	25.0

• Complies with the HSK-T and ICTM standards. • A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

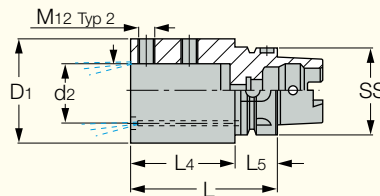
Spare Parts



Designation	Screw	Coolant Nozzle
HSK A63WH-ASHR/L-3	SR M12X30 DIN915 45H	EZ 83

HSK A-WH ABB

Adapters with HSK Exchangeable Shanks for Boring Bars with Reduction Sleeves



Designation	SS	d ₂	L	L ₅	D ₁	L ₄
HSK A63WH-ABB-40	63	40.00	105.00	30.00	75.0	71.0
HSK A100WH-ABB-40	100	40.00	115.00	34.00	82.0	71.0
HSK A100WH-ABB-50	100	50.00	125.00	34.00	92.0	83.0

• Complies with the HSK-T (ISO 12164-3) and ICTM standards. • A cooling tube must be used with all coolant through HSK spindles (should be ordered separately). • For SC reduction sleeves, see next page.

Coolant Nozzle Adjustment Instructions:

In order to adjust the coolant nozzle and/or redirect the coolant, follow these steps:

- Open the nut by turning it approximately three-quarters of a turn counterclockwise.
- Adjust the coolant nozzle so it will direct the coolant to the area of the cutting edge.
- Close the nut by turning it approximately three-quarters of a turn clockwise.
- The special (WRENCH NOZZLE HP M12) key should be used.

Spare Parts



Designation	Screw	Screw 1	Key	Screw 2	Coolant Nozzle	Wrench
HSK A-WH ABB	SR M12X16 DIN1835-B	SR M12X30 DIN915 45H ⁽¹⁾	HW 6.0*	SR M10X6DIN913	SATZ-M12X1-M6	WRENCH NOZZLE HP M12*

* Optional, should be ordered separately

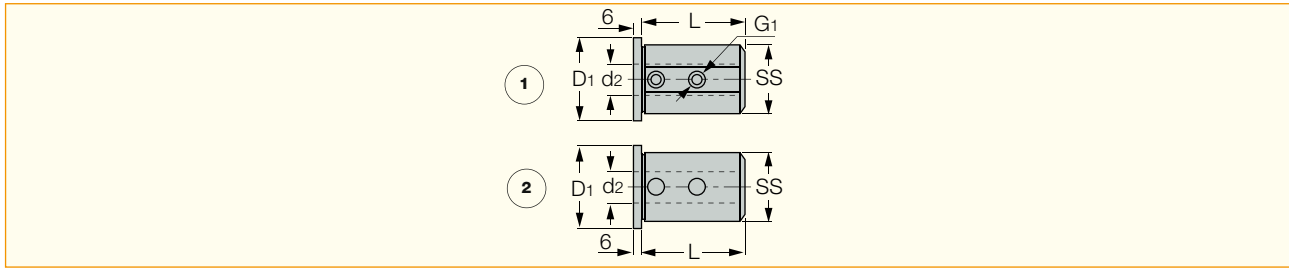
⁽¹⁾ Used on B type sleeves

Accessories

SC-T (sleeves)

Reduction Sleeves for Bars, Used in Holders with Exchangeable Adaptation

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Designation	SS	d ₂	D ₁	L	G ₁	Fig.
SC 25T6A	25.00	6.00	31.0	56.00	M6	1
SC 25T8A	25.00	8.00	31.0	56.00	M8	1
SC 25T10A	25.00	10.00	31.0	56.00	M8	1
SC 25T12A	25.00	12.00	31.0	56.00	M8	1
SC 25T16B	25.00	16.00	31.0	56.00	-	2
SC 25T20B	25.00	20.00	31.0	56.00	-	2
SC 40T6A	40.00	6.00	46.0	60.00	M6	1
SC 40T8A	40.00	8.00	46.0	60.00	M6	1
SC 40T10A	40.00	10.00	46.0	60.00	M8	1
SC 40T12A	40.00	12.00	46.0	60.00	M8	1
SC 40T16B	40.00	16.00	46.0	60.00	-	2
SC 40T20B	40.00	20.00	46.0	60.00	-	2
SC 40T25B	40.00	25.00	46.0	60.00	-	2
SC 40T32B	40.00	32.00	46.0	60.00	-	2
SC 50T6A	50.00	6.00	56.0	70.00	M6	1
SC 50T8A	50.00	8.00	56.0	70.00	M8	1
SC 50T10A	50.00	10.00	56.0	70.00	M8	1
SC 50T12A	50.00	12.00	56.0	70.00	M8	1
SC 50T16B	50.00	16.00	56.0	80.00	-	2
SC 50T20B	50.00	20.00	56.0	80.00	-	2
SC 50T25B	50.00	25.00	56.0	80.00	-	2
SC 50T32B	50.00	32.00	56.0	80.00	-	2

Spare Parts



Designation	Screw	Key
SC 25T6A	SR M6X6DIN916 45H	HW 3.0*
SC 25T8A	SR M8X6DIN916 45H	HW 4.0*
SC 25T10A	SR M8X6DIN916 45H	HW 4.0*
SC 25T12A	SR M8X6DIN916 45H	HW 4.0*
SC 40T6A	SR M6X10 DIN1835B	HW 3.0*
SC 40T8A	SR M8X10 DIN1835-B	HW 4.0*
SC 40T10A	SR M8X10 DIN1835-B	HW 4.0*
SC 40T12A	SR M8X10 DIN1835-B	HW 4.0*
SC 50T6A	SR M6X6DIN916 45H	HW 3.0*
SC 50T8A	SR M8X6DIN916 45H	HW 4.0*
SC 50T10A	SR M8X6DIN916 45H	HW 4.0*
SC 50T12A	SR M8X6DIN916 45H	HW 4.0*

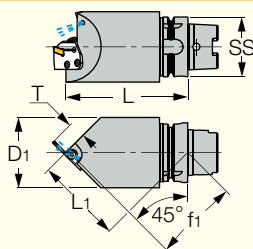
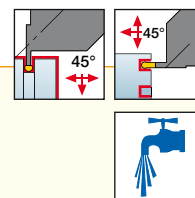
* Optional, should be ordered separately



MODULAR-GRIP • HSK

HSK A63WH-MAHDR-45

Holders for MODULAR-GRIP, Parting, Grooving and Facing Adapters with HSK Tapered Shanks



T= See specific adapter dimensions
• Right-hand shown

Designation	SS	L	L ₁	f ₁	D ₁
HSK A63WH-MAHDR-45	63	130.00	91.9	89.0	75.0

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately) • Complies with the ICTM and HSK-T standards

For tools, see pages: CGPAD (65) • DGAD-B-D (69) • DGAD/HGAD (68) • HFPAD-3 (66) • HFPAD-4 (66) • HFPAD-5 (67) • HFPAD-6 (67) • HGPAD (64) • PCADR/L (64) • SCLCR-PAD (74) • SDJCR-PAD (73) • SVJCR-PAD (73) • SWAPR-PAD (74) • TGAD (69) • TGPAD (65).

Spare Parts



Designation	Lower Locking Screw	Key	Side Locking Screw	Screw	Key 1	Sealing Screw	Coolant Nozzle
HSK A63WH-MAHDR-45	SR M5-04451	T-20/5	SR 14-519 ⁽¹⁾	SR M6X20-XT	HW 5.0	SR M6X6DIN551 14H/22H ⁽²⁾	SATZ-M8X1-M3

⁽¹⁾ For DGAD, HGAD and PCADR/L adapters. Supplied in the attached plastic bag.

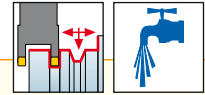
⁽²⁾ Used to prevent chips from entering the upper locking screw hole when it is not used for the adaptation. Supplied in the attached plastic bag.



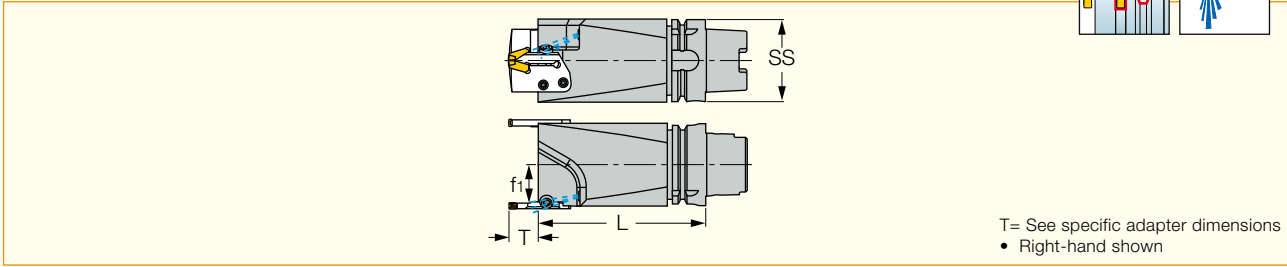
MODULAR-GRIP • HSK

HSK A63WH-MAHDOR

Holders for Parting, Grooving, Turning and Facing Adapters with HSK Exchangeable Shanks



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T= See specific adapter dimensions
• Right-hand shown

Designation	SS	f ₁	L
HSK A63WH-MAHDOR	63	29.0	130.00

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately). • Complies with the ICTM and HSK-T standards.

For tools, see pages: CGPAD (65) • DGAD-B-D (69) • DGAD/HGAD (68) • HFPAD-3 (66) • HFPAD-4 (66) • HFPAD-5 (67) • HFPAD-6 (67) • HGPAID (64) • PCADR/L (64) • SCLCR-PAD (74) • SDJCR-PAD (73) • SVJCR-PAD (73) • SWAPR-PAD (74) • TGAD (69) • TGPAD (65).

Spare Parts



Designation	Lower Locking Screw	Key	Side Locking Screw	Upper Locking Screw	Key 1	Sealing Screw	Coolant Nozzle
HSK A63WH-MAHDOR	SR M5-04451	T-20/5	SR 14-519 ⁽²⁾	SR M6X20-XT ⁽¹⁾	HW 5.0	SR M6X6DIN551 14H/22H ⁽³⁾	EZ 125

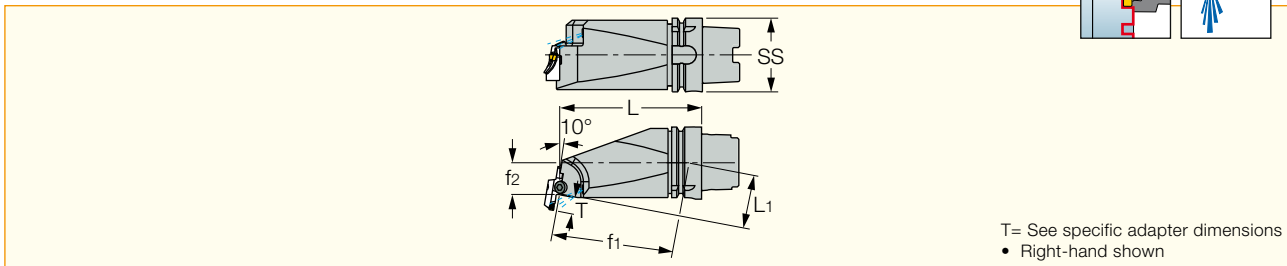
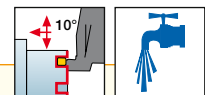
⁽¹⁾ For CGPAD, HGPAID, TGPAD and HFPAD adapters. Supplied with the tools.

⁽²⁾ For DGAD, HGAD and PCADR/L adapters. Supplied in the attached plastic bag.

⁽³⁾ Used to prevent chips from entering the upper locking screw hole when it is not used for the adaptation. Supplied in the attached plastic bag.

HSK A63WH-MAHUR/L

Holders for Parting, Grooving, Turning and Facing Adapters with HSK-T Shanks, 10° Mounting on Mill-Turn Machines



T= See specific adapter dimensions
• Right-hand shown

Designation	SS	f ₁	f ₂	L	L ₁
HSK A63WH-MAHUR/L-10	63	113.1	29.00	130.00	49.4

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately) • Complies with the ICTM and HSK-T standards

For tools, see pages: CGPAD (65) • DGAD-B-D (69) • DGAD/HGAD (68) • HFPAD-3 (66) • HFPAD-4 (66) • HFPAD-5 (67) • HFPAD-6 (67) • HGPAID (64) • PCADR/L (64) • SCLCR-PAD (74) • SDJCR-PAD (73) • SVJCR-PAD (73) • SWAPR-PAD (74) • TGAD (69) • TGPAD (65).

Spare Parts



Designation	Lower Locking Screw	Key	Side Locking Screw	Upper Locking Screw	Key 1	Sealing Screw	Coolant Nozzle
HSK A63WH-MAHUR/L-10	SR M5-04451	T-20/5	SR 14-519 ⁽²⁾	SR M6X20-XT ⁽¹⁾	HW 5.0	SR M6X6DIN551 14H/22H ⁽³⁾	EZ 125

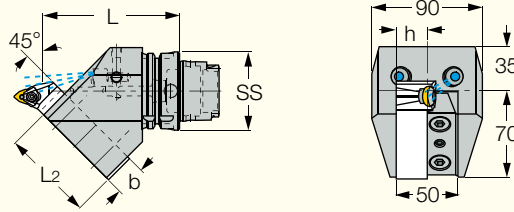
⁽¹⁾ For CGPAD, HGPAID, TGPAD and HFPAD adapters. Supplied with the tools.

⁽²⁾ For DGAD, HGAD and PCADR/L adapters. Supplied in the attached plastic bag.

⁽³⁾ Used to prevent chips from entering the upper locking screw hole when it is not used for the adaptation. Supplied in the attached plastic bag.

HSK A63WH-ASHN-45

Square Shank Tool Adapters with HSK Exchangeable Shanks for 45° Mounting on Turn-Mill Machines



Righth-hand shown

Designation	SS	L	L ₂	h	b
HSK A63WH-ASHN-25-45	63	110.00	72.00	25.0	25.0

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately). • For using left-hand toolholder, the position of clamping spacer must be changed. • Complies with the HSK-T and ICTM standards.

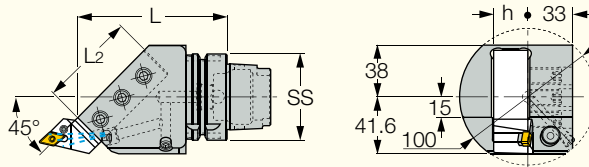
Spare Parts



Designation	Screw	Screw 1	Coolant Nozzle
HSK A63WH-ASHN-25-45	SR M10X25DIN912 12.9	SR M8X20X1.25DIN916 45H	SATZ-M12X1-M6

HSK A63WH-ASHR/L-45

Square Shank Tool Adapters with HSK-T Exchangeable Shanks for 45° Mounting on Turn-Mill Machines



A left-hand tool in a right-hand adapter are shown

Designation	SS	L	L ₂	L ₃	h
HSK A63WH-ASHR/L-25-45	63	110.00	70.00	30.00	25.0

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately). • Complies with the HSK-T and ICTM standards.

Spare Parts



Designation	Screw	Coolant Nozzle
HSK A63WH-ASHR/L-45	SR M12X30 DIN915 45H	EZ 104

Coolant Nozzle Adjustment Instructions

In order to adjust the coolant nozzle and/or redirect the coolant, follow these steps:

- Open the nut by turning it approximately three-quarters of a turn counterclockwise.
- Adjust the coolant nozzle so it will direct the coolant to the area of the cutting edge.
- Close the nut by turning it approximately three-quarters of a turn clockwise.
- The special (WRENCH NOZZLE HP) key should be used.



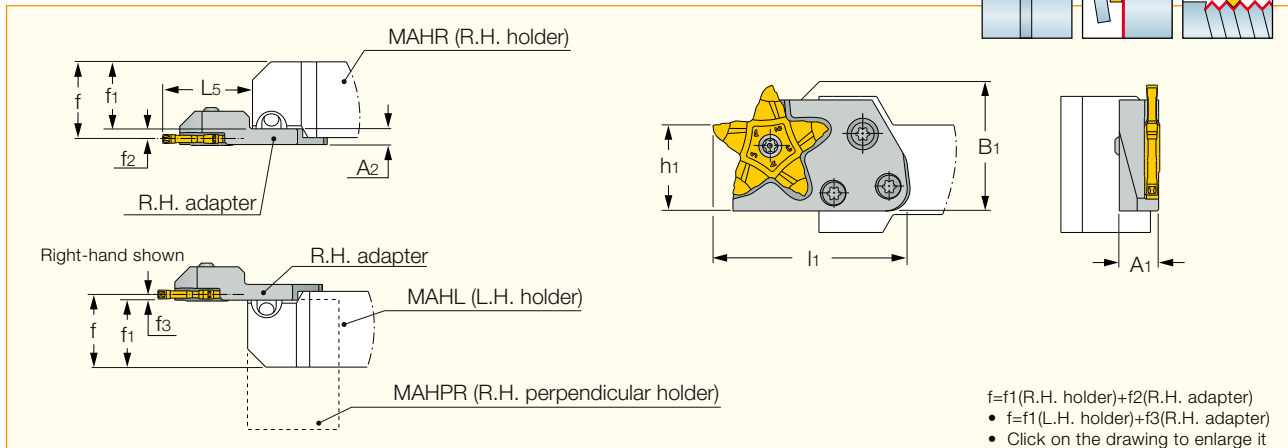
ADAPTERS & BLADES



CUT-GRIP **HELIFACE** **TOP-GRIP** **HELI-GRIP** **DO-GRIP** **PENTACUT**

PCADR/L

Adapters for PENTACUT Grooving Inserts



Designation	W _{min}	W _{max}	L ₅	l ₁	f ₂	f ₃	A ₂	h ₁	B ₁	A ₁
PCADR/L 24N	0.50	3.18 ⁽¹⁾	17.00	41.50	3.20	2.00	5.2	24.0	30.3	9.00
PCADR/L 34N	1.50	4.00	29.60	54.20	3.35	1.85	5.2	24.0	31.0	11.00

• T_{max} and D_{max} according to insert limitation

⁽¹⁾ Up to 6.2 mm width may be ordered on request

For inserts: PENTA 24-BSPT • PENTA 24-ISO • PENTA 24-MT • PENTA 24-NPT • PENTA 24-UN • PENTA 24-W • PENTA 24-WT • PENTA 24N-C • PENTA 24N-C (full radius) • PENTA 24N-J • PENTA 24N-J (full radius) • PENTA 24N-PF/P • PENTA 24N-Z • PENTA 24R-P • PENTA 24R/L-C • PENTA 24R/L-J • PENTA 24R/L-Z • PENTA 34F-R/L • PENTA 34N-C • PENTA 34N-J • PENTA 34N-PB • PENTA 34R/L-C • PENTA 34R/L-J • PENTA 34R/L-PB .

For holders, see pages: C#-MAHD-JHP (11) • C#-MAHPD-JHP (13) • C#-MAHD (10) • C#-MAHPD (12) • C#-MAHUR/L (48) • C#-MAHDR-45 (47) • HSK A63WH-MAHUR/L (61) • HSK A63WH-MAHDR-45 (60) • HSK A63WH-MAHDOR (61)

Spare Parts



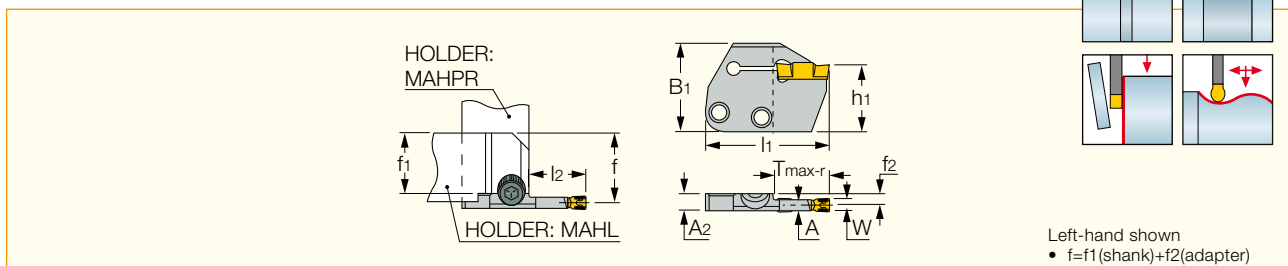
Designation	Screw	Key
PCADL 24N	SR 16-212-01397 ⁽¹⁾	T-2010/5
PCADR 24N	SR 16-212-01397	T-2010/5
PCADR/L 34N	SR 16-212-01397	T-2010/5

⁽¹⁾ For left-hand holders

HELI-GRIP

HGPAD

Adapters for Turning, Grooving and Parting



Designation	W _{min}	W _{max}	T _{max-r}	l ₂	f ₂	A	A ₂	l ₁	B ₁	h ₁	Insert
HGPAD 3R/L-T12	3.00	3.00	12.00	15.2	4.80	2.50	6.0	39.70	32.0	24.0	GRIP 3, HGN 3
HGPAD 3R/L-T20	3.00	3.00	20.00	21.2	4.80	2.50	6.0	45.70	32.0	24.0	GRIP 3, HGN 3
HGPAD 4R/L-T12	4.00	4.76	12.00	18.7	4.40	3.30	6.0	43.20	32.0	24.0	GRIP 4, DGN 4
HGPAD 4R/L-T20	4.00	4.76	20.00	21.2	4.40	3.30	6.0	45.70	32.0	24.0	GRIP 4, DGN 4
HGPAD 5R/L-T12	5.00	5.00	12.00	18.7	3.90	4.20	6.0	43.20	32.0	24.0	GRIP 5, DGN 5
HGPAD 5R/L-T20	5.00	5.00	20.00	21.2	3.90	4.20	6.0	45.70	32.0	24.0	GRIP 5, DGN 5
HGPAD 6R/L-T12	6.00	6.35	12.00	18.7	3.40	5.20	6.0	43.20	32.0	24.0	GRIP 6, DGN 6
HGPAD 6R/L-T22	6.00	6.35	22.00	23.2	3.40	5.20	6.0	47.70	32.0	24.0	GRIP 6, DGN 6

• DO-GRIP DGN, HGN inserts can be used for grooving only

For inserts: GRIP • GRIP (full radius) • DGN/DGNC/DGNM-C • HGN-C • DGN/DGNM-J/JS/JT • HGN-J • DGN-UT/UA • DGN-W • HGN-UT .

For holders, see pages: C#-MAHD-JHP (11) • C#-MAHPD-JHP (13) • C#-MAHD (10) • C#-MAHPD (12) • C#-MAHUR/L (48) • C#-MAHDR-45 (47)

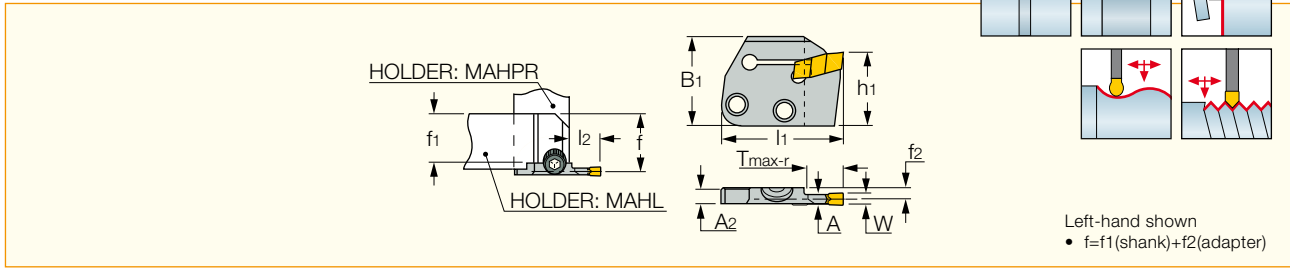
• C#-MAHDOR (48) • HSK A63WH-MAHUR/L (61) • HSK A63WH-MAHDR-45 (60) • HSK A63WH-MAHDOR (61)

CUT-GRIP • MODULAR-GRIP

CGPAD

Adapters for CUT-GRIP Inserts

Quick Change
High Precision
Tools and Holders for
MAXIMUM
MACHINING PERFORMANCE



Designation	W _{min}	W _{max}	T _{max-r}	l ₂	f ₂	A	A ₂	l ₁	B ₁	h ₁
CGPAD 3R/L-T16	2.80	4.00	16.00	17.3	4.00	2.40	5.2	42.00	30.0	24.0
CGPAD 3R/L-T22	2.80	4.00	22.00	23.0	4.00	2.40	5.2	47.70	30.0	24.0
CGPAD 4R/L-T16	4.00	5.00	16.00	17.3	3.60	3.50	5.2	42.00	30.0	24.0
CGPAD 4R/L-T22	4.00	5.00	22.00	23.0	3.50	3.50	5.2	47.70	30.0	24.0
CGPAD 5R/L-T16	5.00	6.40	16.00	17.3	3.10	4.50	5.2	42.00	30.0	24.0
CGPAD 5R/L-T22	5.00	6.40	22.00	23.0	3.00	4.50	5.2	47.70	30.0	24.0
CGPAD 8R/L-T16	6.40	8.00	16.00	17.3	3.00	6.00	6.0	42.00	30.0	24.0
CGPAD 8R/L-T22	6.40	8.00	22.00	23.0	3.00	6.00	6.0	47.70	30.0	24.0

• For using TIP insert, toolholder seat needs to be modified according to insert profile to ensure clearance.

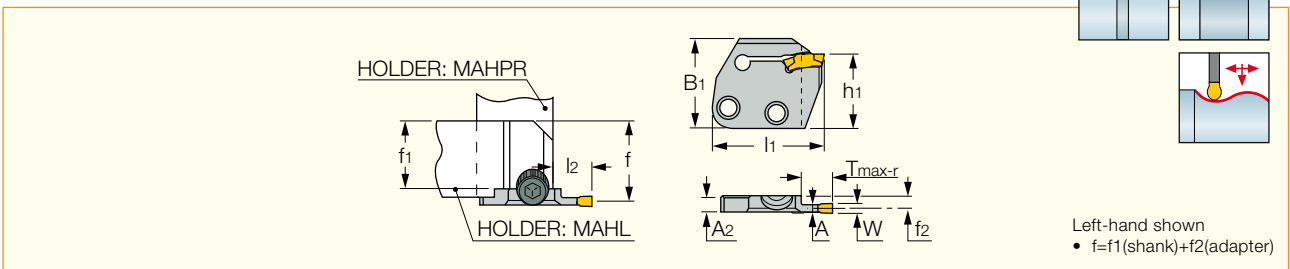
For inserts: GIF • GIF (full radius) • GIF-E (W=4-6 full radius) • GIF-E (W=4-6) • GIM-C • GIM-J • GIM-J-RA/LA • GIM-UT • GIM-UT-RA/LA • GIM-W • GIM-W-RA/LA • GIMF • GIMM 8CC • GIMN • GIMY • GIMY (full radius) • GIMY-F • GIP • GIP (full radius) • GIP-E • GIP-E (full radius) • GIP-UN • GIPA (full radius W=3-6) • GIPA (W=3-6) • GIPM-A46 / GIP-1250 • GIPY • GITM • GITM (full radius) • TIP-MT • TIP-P-BSPT • TIP-P-BSW • TIP-P-ISO • TIP-P-NPT • TIP-P-UN • TIP-WT .

For holders, see pages: C#-MAHD-JHP (11) • C#-MAHPD-JHP (13) • C#-MAHD (10) • C#-MAHPD (12) • C#-MAHUR/L (48) • C#-MAHDR-45 (47) • HSK A63WH-MAHUR/L (61) • HSK A63WH-MAHDR-45 (60) • HSK A63WH-MAHDOR (61)

TOP-GRIP

TGPAD

Adapters for TGMP / TGMP Groove-Turn Inserts



Designation	W _{min}	W _{max}	T _{max-r}	f ₂	A	A ₂	l ₂	l ₁	h ₁	B ₁
TGPAD 3R/L-T9	3.00	3.00	9.00	4.00	2.40	5.2	12.7	37.20	24.0	30.0
TGPAD 4R/L-T16	4.00	5.00	16.00	3.50	3.40	5.2	17.2	41.70	24.0	30.0
TGPAD 5R/L-T16	5.00	5.00	16.00	3.00	4.40	5.2	17.2	41.70	24.0	30.0
TGPAD 6R/L-T22	6.00	6.35	22.00	3.50	5.00	6.0	23.2	47.10	24.0	32.0

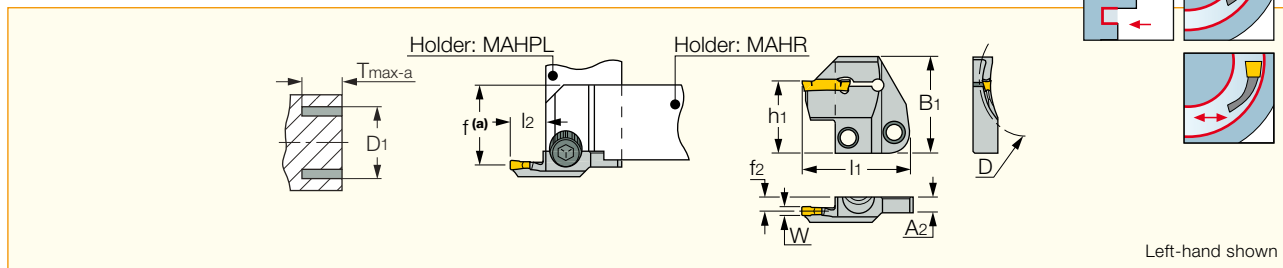
For inserts: TGMP (full radius) • TGMP/P .

For holders, see pages: C#-MAHD-JHP (11) • C#-MAHPD-JHP (13) • C#-MAHD (10) • C#-MAHPD (12) • C#-MAHUR/L (48) • C#-MAHDR-45 (47) • HSK A63WH-MAHUR/L (61) • HSK A63WH-MAHDR-45 (60) • HSK A63WH-MAHDOR (61)

MODULAR-GRIP

HFPAD-3

Adapters for Face Machining



Left-hand shown

Designation	D _{1 min} ⁽¹⁾	D _{1 max} ⁽²⁾	W	T _{max-a}	l ₂	f ₂	A ₂	l ₁
HFPAD 3R/L-25-T10	25.0	30.0	3.00	10.00	15.0	4.80	5.8	39.50
HFPAD 3R/L-30-T10	30.0	40.0	3.00	10.00	15.0	4.80	5.8	39.50
HFPAD 3R/L-40-T10	40.0	65.0	3.00	10.00	15.0	4.80	5.8	39.50
HFPAD 3R/L-65-T18	65.0	115.0	3.00	18.00	19.0	4.80	5.8	43.50
HFPAD 3R/L-115-T18	115.0	400.0	3.00	18.00	19.0	4.80	5.8	43.50

• f(a)=f₁(shank) + f₂(adapter) • HGN & GRIP 3.. inserts can be used only with right-hand adapters, HGPL 3.. inserts with left-hand adapters.

⁽¹⁾ Minimum penetration diameter ⁽²⁾ Maximum penetration diameter

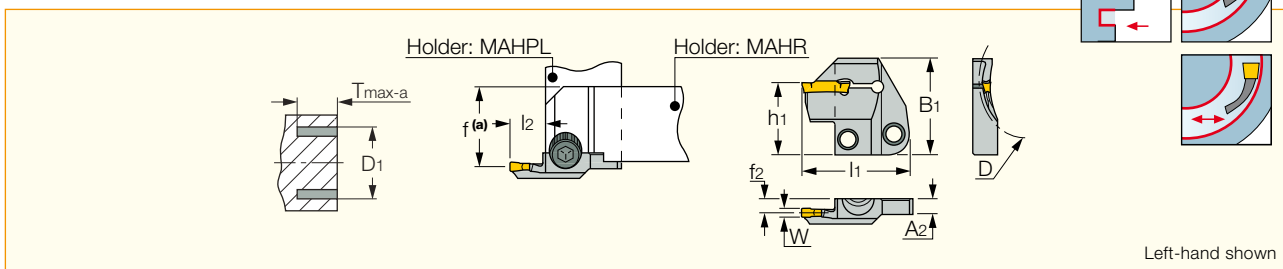
For inserts: GRIP • GRIP (full radius) • HGN-C • HGN-J • HGN-UT • HGPL .

For holders, see pages: C#-MAHD-JHP (11) • C#-MAHPD-JHP (13) • C#-MAHD (10) • C#-MAHPD (12) • C#-MAHUR/L (48) • C#-MAHDR-45 (47)

• C#-MAHDOR (48) • HSK A63WH-MAHUR/L (61) • HSK A63WH-MAHDR-45 (60) • HSK A63WH-MAHDOR (61) .

HFPAD-4

Adapters for Face Machining



Left-hand shown

Designation	D _{1 min} ⁽¹⁾	D _{1 max} ⁽²⁾	W	T _{max-a}	l ₂	f ₂	A ₂	l ₁
HFPAD 4R/L-25-T10	25.0	31.0	4.00	10.00	16.0	4.50	5.8	40.50
HFPAD 4R/L-31-T10	31.0	44.0	4.00	10.00	16.0	4.50	5.8	40.50
HFPAD 4R/L-44-T14	44.0	58.0	4.00	14.00	16.0	4.50	5.8	40.50
HFPAD 4R/L-58-T14	58.0	88.0	4.00	14.00	16.0	4.50	5.8	40.50
HFPAD 4R/L-88-T14	88.0	175.0	4.00	14.00	16.0	4.50	5.8	40.50
HFPAD 4R/L-175-T20	175.0	800.0	4.00	20.00	21.0	4.50	6.5	45.50

• f(a)=f₁(shank) + f₂(adapter) • DGN & GRIP 4.. inserts can be used only with right-hand adapters, HGPL 4.. inserts with left-hand adapters.

⁽¹⁾ Minimum penetration diameter ⁽²⁾ Maximum penetration diameter

For inserts: HFPR/L • HFPR/L (full radius) • GRIP • GRIP (full radius) • DGN/DGNC/DGNM-C • DGN/DGNM-J/JS/JT • HGPL .

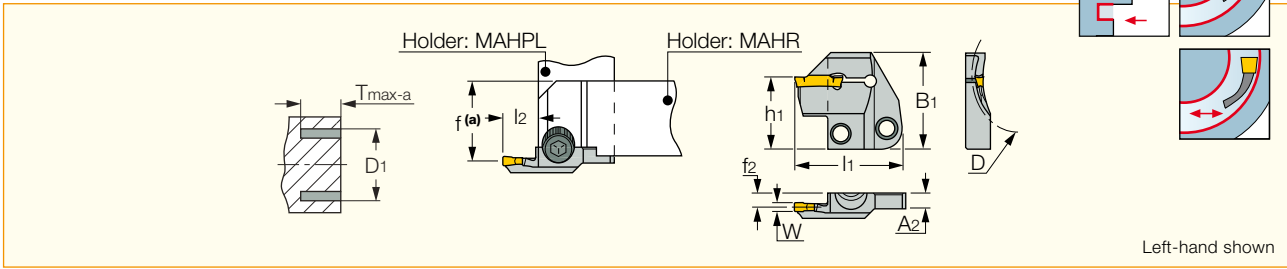
For holders, see pages: C#-MAHD-JHP (11) • C#-MAHPD-JHP (13) • C#-MAHD (10) • C#-MAHPD (12) • C#-MAHUR/L (48) • C#-MAHDR-45 (47)

• C#-MAHDOR (48) • HSK A63WH-MAHUR/L (61) • HSK A63WH-MAHDR-45 (60) • HSK A63WH-MAHDOR (61) .

HFPAD-5

Adapters for Face Machining

Quick Change
High Precision
Tools and Holders for
MAXIMUM
MACHINING PERFORMANCE



Left-hand shown

Designation	D ₁ min ⁽¹⁾	D ₁ max ⁽²⁾	W	T _{max-a}	l ₂	f ₂	A ₂	l ₁	h ₁	B ₁
HFPAD 5R/L-40-T14	40.0	50.0	5.00	14.00	16.0	4.50	6.3	40.50	24.0	32.0
HFPAD 5R/L-50-T14	50.0	75.0	5.00	14.00	16.0	4.50	6.3	40.50	24.0	32.0
HFPAD 5R/L-75-T14	75.0	110.0	5.00	14.00	16.0	4.50	6.3	40.50	24.0	32.0
HFPAD 5R/L-110-T14	110.0	200.0	5.00	14.00	16.0	4.50	6.3	40.50	24.0	32.0
HFPAD 5R/L-200-T20	200.0	800.0	5.00	20.00	21.0	4.50	6.6	45.50	24.0	32.0

• f(a)=f₁(shank) + f₂(adapter) • DGN & GRIP 5.. inserts can be used only with right-hand adapters, HGPL 5.. inserts with left-hand adapters.

⁽¹⁾ Minimum penetration diameter ⁽²⁾ Maximum penetration diameter

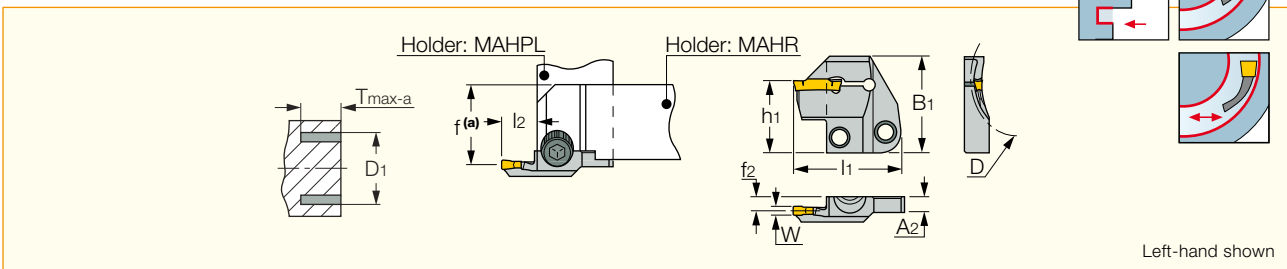
For inserts: HFPR/L • HFPR/L (full radius) • GRIP • GRIP (full radius) • DGN/DGNC/DGNM-C • DGN/DGNM-J/JS/JT • DGN-W • HGPL .

For holders, see pages: C#-MAHD-JHP (11) • C#-MAHPD-JHP (13) • C#-MAHD (10) • C#-MAHDOR (48) • C#-MAHPD (12) • C#-MAHUR/L (48)

• C#-MAHDR-45 (47) • HSK A63WH-MAHUR/L (61) • HSK A63WH-MAHDR-45 (60) • HSK A63WH-MAHDOR (61) .

HFPAD-6

Adapters for Face Machining



Left-hand shown

Designation	D ₁ min ⁽¹⁾	D ₁ max ⁽²⁾	W	T _{max-a}	l ₂	f ₂	A ₂	l ₁	h ₁	B ₁
HFPAD 6R/L-60-T14	60.0	100.0	6.00	14.00	16.0	4.50	6.8	40.50	24.0	32.0
HFPAD 6R/L-100-T20	100.0	200.0	6.00	20.00	21.0	4.50	6.8	45.50	24.0	32.0
HFPAD 6R/L-200-T20	200.0	3000.0	6.00	20.00	21.0	4.50	7.1	45.50	24.0	32.0

• f(a)=f₁(shank) + f₂(adapter) • DGN & GRIP 6.. inserts can be used only with right-hand adapters, HGPL 6.. inserts with left-hand adapters.

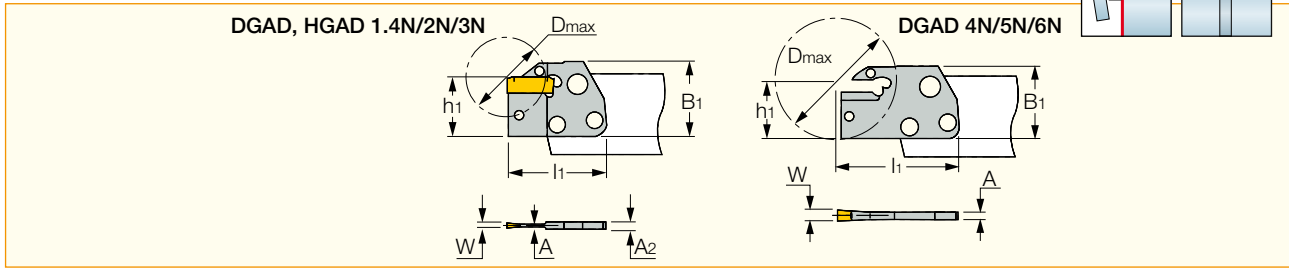
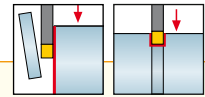
⁽¹⁾ Minimum penetration diameter ⁽²⁾ Maximum penetration diameter

For inserts: HFPR/L • HFPR/L (full radius) • GRIP • GRIP (full radius) • DGN/DGNC/DGNM-C • DGN/DGNM-J/JS/JT • HGPL .

For holders, see pages: C#-MAHD-JHP (11) • C#-MAHPD-JHP (13) • C#-MAHD (10) • C#-MAHPD (12) • C#-MAHUR/L (48) • C#-MAHDR-45 (47)

• C#-MAHDOR (48) • HSK A63WH-MAHUR/L (61) • HSK A63WH-MAHDR-45 (60) • HSK A63WH-MAHDOR (61) .

Adapters for Parting and Grooving, for DO-GRIP Double-Ended Inserts



Designation	W _{min}	W _{max}	A	A ₂	B ₁	h ₁	l ₁	D _{max}
DGAD 1.4N	1.40	1.40	3.20	1.0	30.0	24.0	41.50	28.0
DGAD 2N	1.90 ⁽²⁾	2.50	3.20	1.6	30.0	24.0	41.50	32.0
DGAD 3N ⁽¹⁾	3.00 ⁽²⁾	3.18	4.00	2.4	30.0	24.0	41.50	32.0
HGAD 3N	3.00	3.00	4.00	2.4	30.0	24.0	50.50	50.0
DGAD 4N	4.00	4.00	3.20	3.2	30.0	24.0	50.50	50.0
DGAD 5N	4.80	5.00	4.00	4.0	30.0	24.0	50.50	50.0
DGAD 6N	6.00	6.35	5.20	5.2	30.0	24.0	50.50	50.0

• DG..1.0 insert can be mounted into pocket sizes 2 and 3. In that case the pocket width has to be modified.

⁽¹⁾ Only the DGN/R/L inserts are suitable for this adapter ⁽²⁾ For 1 mm inserts, modify adapter

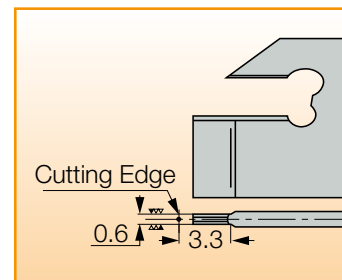
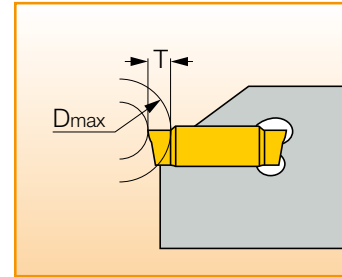
For inserts: DGN/DGNC/DGNM-C • HGN-C • DGR/L-C DGRC/LC-C • HGR/L-C • DGN/DGNM-J/JS/JT • HGN-J • DGR/L-J/JS • HGR/L-J/JS • DGN-P • DGN-UT/UA • DGN-W • DGN-WP • DGN-Z • DGR-P • DGR-WP • DGR-Z/ZS • HGN-UT • GRIP • GRIP (full radius) .

For holders, see pages: C#-MAHD-JHP (11) • C#-MAHPD-JHP (13) • C#-MAHD (10) • C#-MAHPD (12) • C#-MAHUR/L (48) • C#-MAHDR-45 (47) • C#-MAHDOR (48) • HSK A63WH-MAHUR/L (61) • HSK A63WH-MAHDR-45 (60) • HSK A63WH-MAHDOR (61)

Depth Capacity for DGN/R-1002J Insert on Standard Holders

Depth: T	D max	
Up to 1.2	No limit	
1.3	830	
1.4	218	
1.5	126	
1.6	88.4	
1.7	68.2	
1.8	55.6	
1.9	46.9	
2.0	40.7	
2.1	36.0	

Depth: T	D max	
Up to 2.2	32.3	
2.3	29.3	
2.4	26.7	
2.5	24.8	
2.6	23.2	
2.7	21.7	
2.8	20.5	
2.9	19.4	
3.0	18.4	



Standard Holders Modification

To achieve no limitation on the workpiece diameter up to 3 mm depth, the steel support under the insert should be ground, as per the shown sketch.

Spare Parts



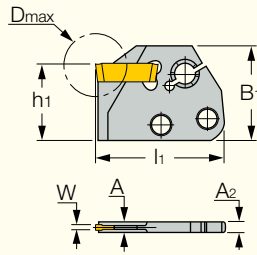
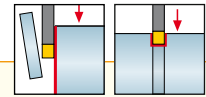
Designation	Extractor
DGAD 1.4N	EDG 23B*
DGAD 2N	EDG 33A*
DGAD 3N	EDG 33A*
HGAD 3N	EDG 23B*
DGAD 4N	EDG 33A*
DGAD 5N	EDG 33A*
DGAD 6N	EDG 33A*

* Optional, should be ordered separately

DO-GRIP

TWISTED 2-SIDED
DGAD-B-D

Screw-Clamped Adapters for Parting and Grooving,
for DO-GRIP Double-Ended Inserts



Designation	W_{min}	W_{max}	A_2	A	l_1	D_{max}	h_1	B_1
DGAD 1.4B-D16	1.40	1.40	1.0	3.20	36.80	16.0	24.0	30.3
DGAD 1.5B-D20 ⁽¹⁾	1.00	1.50	1.0	3.20	41.00	20.0	24.0	30.3
DGAD 2B-D20	1.90	2.50	1.6	3.20	41.00	20.0	24.0	30.3

• Up to 3 mm depth, without any limitation on the diameter. • DG..1.0 insert can also be mounted into pocket sizes 2 and 3. In that case the pocket width has to be modified.

⁽¹⁾ Do not use DG.. 1.4 on this tool!

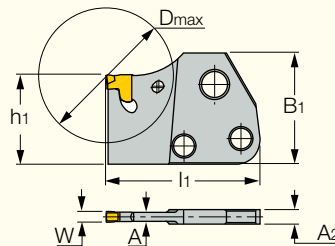
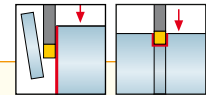
For inserts: DGN-LF/LFT • DGN-P • DGN-UT/UA • DGN-WP • DGN-Z • DGN/DGNC/DGNM-C • DGN/DGNM-J/JS/JT • DGR-P • DGR-WP • DGR-Z/ZS • DGR/L-C DGRC/LC-C • DGR/L-J/JS .

For holders, see pages: C#-MAHD-JHP (11) • C#-MAHPD-JHP (13) • C#-MAHD (10) • C#-MAHPD (12) • C#-MAHUR/L (48) • C#-MAHDR-45 (47) • C#-MAHDOR (48) • HSK A63WH-MAHUR/L (61) • HSK A63WH-MAHDR-45 (60) • HSK A63WH-MAHDOR (61)

TANG-GRIP

PARTING LINE
TGAD

Parting and Grooving Adapters for TANG-GRIP Tangentially Clamped Inserts



Designation	W_{min}	W_{max}	A	A_2	l_1	D_{max}	h_1	B_1	Insert
TGAD 1.4N	1.40	1.40	3.20	1.1	41.50	32.0	24.0	29.0	TAG 1.4
TGAD 2N	1.80	2.40	3.20	1.7	41.50	32.0	24.0	30.0	TAG 2
TGAD 3N	2.80	3.50	4.00	2.4	41.50	35.0	24.0	30.0	TAG 3
TGAD 4N	3.70	4.50	3.20	3.2	50.50	50.0	24.0	30.0	TAG 4
TGAD 5N	4.70	5.50	4.00	4.0	50.50	50.0	24.0	30.0	TAG 5

For inserts: TAG N-A • TAG N-C/W/M • TAG N-J/JS/JT • TAG N-LF • TAG N-MF • TAG N-UT • TAG R/L-C • TAG R/L-J/JS .

For holders, see pages: C#-MAHD-JHP (11) • C#-MAHPD-JHP (13) • C#-MAHD (10) • C#-MAHPD (12) • C#-MAHUR/L (48) • C#-MAHDR-45 (47) • HSK A63WH-MAHUR/L (61) • HSK A63WH-MAHDR-45 (60) • HSK A63WH-MAHDOR (61)

Spare Parts



Designation	Extractor
TGAD 1.4N	ETG 1.4/1.6*
TGAD 2N	ETG 2*
TGAD 3N	ETG 3-4-SH*
TGAD 4N	ETG 3-4-SH*
TGAD 5N	ETG 5-7*

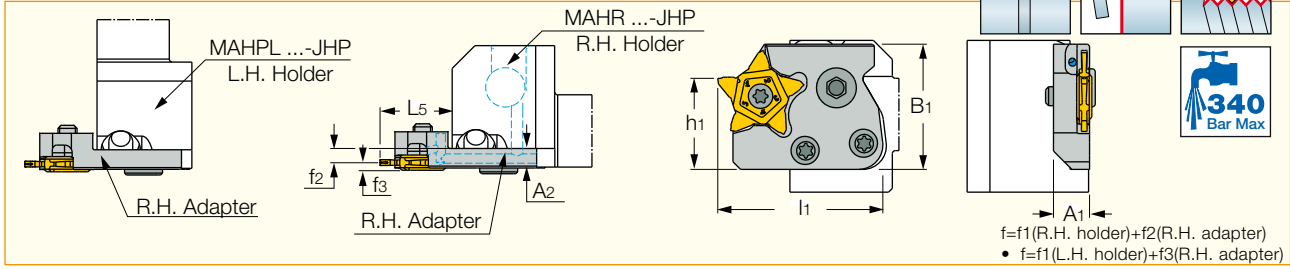
* Optional, should be ordered separately

Quick Change
High Precision
Tools and Holders for
MAXIMUM
MACHINING PERFORMANCE

PENTACUT • JET HPLINE

PCADR/L-JHP

Adapters with High Pressure Coolant Holes for PENTACUT Grooving Inserts



Designation	W _{min}	W _{max}	L ₅	l ₁	f ₂	f ₃	A ₁	A ₂	h ₁	B ₁
PCADR/L 24-JHP	0.50	3.18 ⁽¹⁾	19.00	43.50	3.76	1.40	9.50	5.2	24.0	33.0

• Tmax and Dmax according to insert limitation

⁽¹⁾ Up to 6.2 mm width can be ordered on request

For inserts: PENTA 24-BSPT • PENTA 24-ISO • PENTA 24-MT • PENTA 24-NPT • PENTA 24-UN • PENTA 24-W • PENTA 24-WT • PENTA 24N-C • PENTA 24N-C (full radius) • PENTA 24N-J • PENTA 24N-J (full radius) • PENTA 24N-PF/P • PENTA 24N-Z • PENTA 24R-P • PENTA 24R/L-C • PENTA 24R/L-J • PENTA 24R/L-Z .

For holders, see pages: C#-MAHD-JHP (11) • C#-MAHPD-JHP (13)

Spare Parts

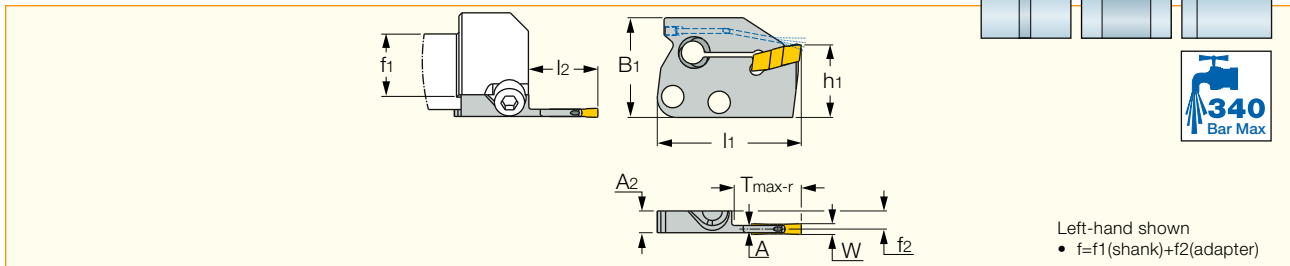


Designation	Screw	Key
PCADR/L-JHP	SR 16-212-01397L	T-2010/5

CUT-GRIP • MODULAR-GRIP • JET HPLINE

CGPAD-JHP

Adapters with High Pressure Coolant Channels for CUT-GRIP Inserts



Designation	W _{min}	W _{max}	T _{max-r}	l ₂	f ₂	A	A ₂	l ₁	B ₁	h ₁
CGPAD 3R/L-T16-JHP	2.80	4.00	16.00	17.3	6.00	2.40	7.2	42.00	33.0	24.0
CGPAD 3R-T22-JHP	2.80	4.00	22.00	23.0	6.00	2.40	7.2	47.70	33.0	24.0
CGPAD 4R/L-T16-JHP	4.00	5.00	16.00	17.3	5.45	3.50	7.2	42.00	33.0	24.0
CGPAD 5R/L-T16-JHP	5.00	6.40	16.00	17.3	4.95	4.50	7.2	42.00	33.0	24.0

• For using TIP insert, toolholder seat needs to be modified according to insert profile to ensure clearance.

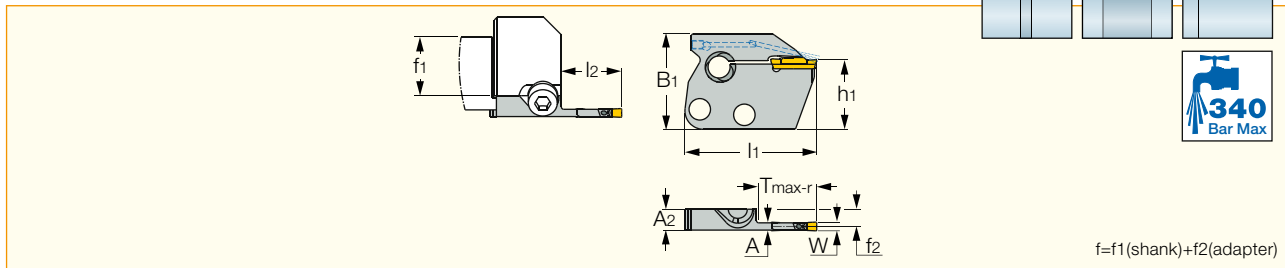
For inserts: GIA-K (W=3-6) • GIF • GIF (full radius) • GIF-E (W=4-6 full radius) • GIF-E (W=4-6) • GIM-C • GIM-J • GIM-J-RA/LA • GIM-UT • GIM-UT-RA/LA • GIM-W • GIM-W-RA/LA • GIMF • GIMN • GIMY • GIMY (full radius) • GIMY-F • GIP • GIP (full radius) • GIP-E • GIP-E (full radius) • GIP-UN • GIPA (full radius W=3-6) • GIPA (W=3-6) • GIPM-A46 / GIP-1250 • GIPY • GITM • GITM (full radius) • GPV • TIP-MT • TIP-P-BSPT • TIP-P-BSW • TIP-P-ISO • TIP-P-NPT • TIP-P-UN • TIP-WT .

For holders, see pages: C#-MAHD-JHP (12), C#-MAHPD-JHP (13).

HELI-GRIP • MODULAR-GRIP • JET HPLINE

HGPAD-JHP

Adapters with High Pressure Coolant Channels for HELI-GRIP Inserts



$$f=f_1(\text{shank})+f_2(\text{adapter})$$

Designation	W _{min}	W _{max}	T _{max-r}	l ₂	f ₂	A	A ₂	l ₁	B ₁	h ₁
HGPAD 3R/L-T20-JHP	3.00	3.00	20.00	21.0	5.95	2.50	7.2	45.70	33.0	24.0
HGPAD 4R/L-T20-JHP	4.00	4.76	20.00	21.0	5.55	3.30	7.2	45.70	33.0	24.0
HGPAD 5R/L-T20-JHP	5.00	5.00	20.00	21.0	5.10	4.20	7.2	45.70	33.0	24.0
HGPAD 6R/L-T22-JHP	6.00	6.35	22.00	23.0	4.60	5.20	7.2	47.70	33.0	24.0

For inserts: GRIP • GRIP (full radius) • DGN/DGNC/DGNM-C • HGN-C • DGN/DGNM-J/JS/JT • HGN-J • DGN-UT/UA • HGN-UT • DGN-W .

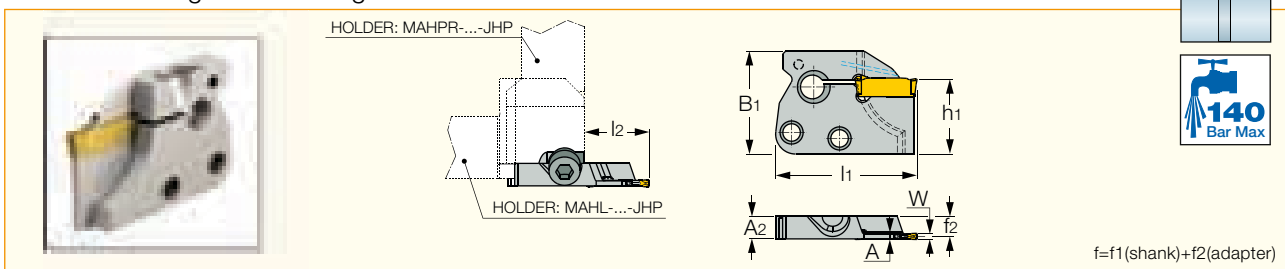
For holders, see pages: C#-MAHD-JHP (11) • C#-MAHPD-JHP (13) .

DO-GRIP • MODULAR-GRIP • JET HPLINE

TWISTED 2-SIDED

DGPAD-JHP

Adapters with High Pressure Coolant Channels for DO-GRIP Parting and Grooving Inserts



$$f=f_1(\text{shank})+f_2(\text{adapter})$$

Designation	W _{min}	W _{max}	D _{max}	l ₂	f ₂	A	A ₂	l ₁	B ₁	h ₁
DGPAD 2R/L-D22-JHP	1.90	2.50	22.0	21.0	6.40	1.60	7.2	43.70	33.0	24.0
DGPAD 2R/L-D32-JHP	1.90	2.50	22.0	21.0	6.40	1.60	7.2	43.70	33.0	24.0
DGPAD 3R/L-D32-JHP	3.00	3.18	32.0	21.0	6.00	2.40	7.2	46.70	33.0	24.0

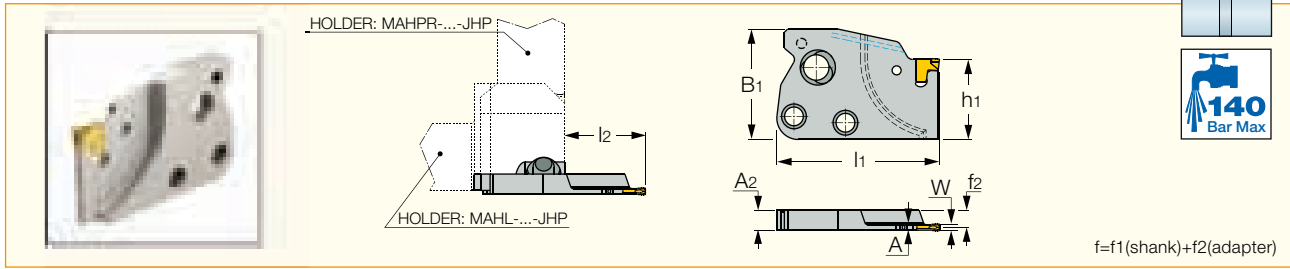
For inserts: DGN-LF/LFT • DGN-MF • DGN-P • DGN-UT/UA • DGN-WP • DGN-Z • DGN/DGNC/DGNM-C • DGN/DGNM-J/JS/JT • DGR-P • DGR-WP • DGR-Z/ZS • DGR/L-C DGRC/LC-C • DGR/L-J/JS .

For holders, see pages: C#-MAHD-JHP (11) • C#-MAHPD-JHP (13)

TANG-GRIP • MODULAR-GRIP • JET HPLINE

PARTING LINE TAGPAD-JHP

Adapters with High Pressure Coolant Channels for
TANG-GRIP Parting and Grooving Inserts



Designation	W _{min}	W _{max}	D _{max}	l ₂	f ₂	A	A ₂	l ₁	B ₁	h ₁
TAGPAD 2R/L-D42-JHP	1.80	2.40	42.0	24.0	5.18	1.65	6.0	48.60	33.0	24.0
TAGPAD 2R/L-D52-JHP	1.80	2.40	52.0	29.0	5.18	1.65	6.0	53.60	33.0	24.0
TAGPAD 3R/L-D42-JHP	2.80	3.50	42.0	24.0	4.80	2.40	6.0	48.50	33.0	24.0
TAGPAD 3R/L-D52-JHP	2.80	3.50	52.0	29.0	4.80	2.40	6.0	53.50	33.0	24.0

For inserts: TAG N-A • TAG N-C/W/M • TAG N-J/JS/JT • TAG N-LF • TAG N-MF • TAG N-UT • TAG R/L-C • TAG R/L-J/JS .

For holders, see pages: C#-MAHD-JHP (11) • C#-MAHPD-JHP (13).

Spare Parts



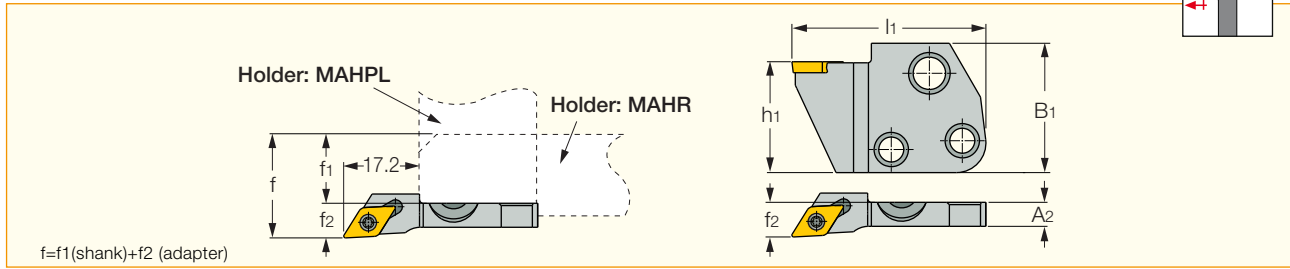
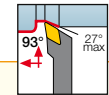
Designation	Extractor
TAGPAD 2R/L-D42-JHP	ETG 2*
TAGPAD 2R/L-D52-JHP	ETG 2*
TAGPAD 3L-D42-JHP	ETG 3-4-SH*
TAGPAD 3R/L-D52-JHP	ETG 3-4-SH*

* Optional, should be ordered separately

ISOTURN • MODULAR-GRIP

SDJCR-PAD

Screw Lock Adapter for 55° Diamond Inserts with 7° Clearance Angle



Designation	h ₁	B ₁	l ₁	f ₂	A ₂	G _a °	G _r °	Insert
SDJCR-07-PAD	24.0	28.0	42.00	7.50	5.2	0	0	DCMT/DCGT 0702

For inserts: DCET-WF • DCGT-AS • DCGW/DCMW-M2/S2 (CBN) • DCMT-F3M • DCMT-F3P • DCMT-M3M • DCMT-M3P • DCMT-PF • DCMT/DCGT • DCMT/DCGT-SM .

For holders, see pages: C#-MAHPD-JHP (13) • C#-MAHD-JHP (11) • C#-MAHD (10) • C#-MAHPD (12) • C#-MAHUR/L (48) • C#-MAHDR-45 (47) • C#-MAHDOR (48) • HSK A63WH-MAHUR/L (61) • HSK A63WH-MAHDR-45 (60) • HSK A63WH-MAHDOR (61)

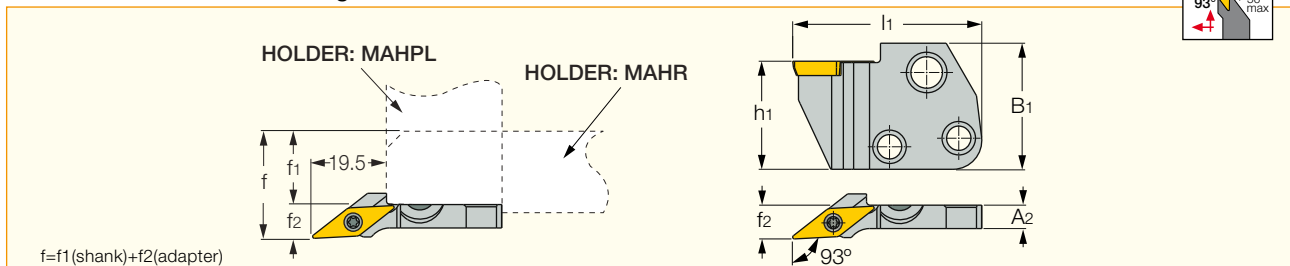
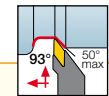
Spare Parts



Designation	Screw	Key
SDJCR-PAD	SR 14-548	T-7/5

SVJCR-PAD

93° Lead Angle Screw Lock Adapters for 35° Diamond Inserts with 7° Clearance Angle



Designation	h ₁	B ₁	l ₁	f ₂	A ₂	G _a °	G _r °
SVJCR-11-PAD	24.0	28.0	42.00	7.50	5.2	0	0

For inserts: VCET-WF • VCGT-AS • VCMT-F3M • VCMT-F3P • VCMT-M3P • VCMT-SM .

For holders, see pages: C#-MAHPD-JHP (13) • C#-MAHD-JHP (11) • C#-MAHD (10) • C#-MAHPD (12) • C#-MAHUR/L (48) • C#-MAHDR-45 (47) • C#-MAHDOR (48) • HSK A63WH-MAHUR/L (61) • HSK A63WH-MAHDR-45 (60) • HSK A63WH-MAHDOR (61)

Spare Parts

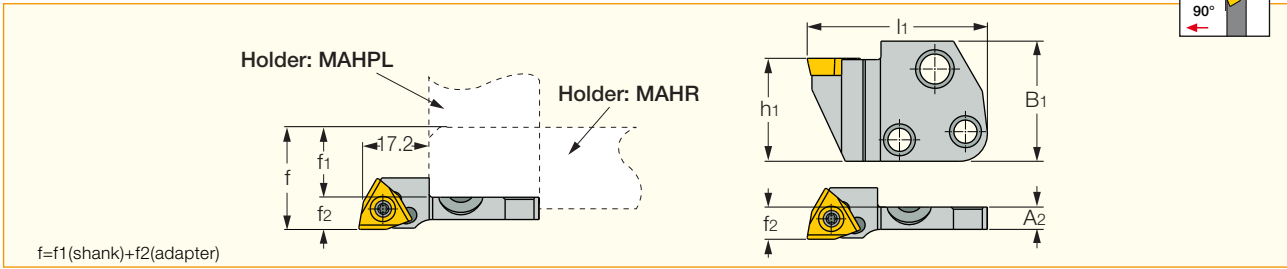
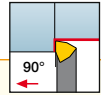


Designation	Screw	Key
SVJCR-PAD	SR 14-560/S	T-8/5

ISOTURN • MODULAR-GRIP

SWAPR-PAD

90° Approach Angle Screw Lock Adapters Carrying Trigon Inserts, for Swiss Automatics



$f=f_1(\text{shank})+f_2(\text{adapter})$

Designation	h_1	B_1	l_1	f_2	A_2	G_a°	G_r°
SWAPR-06-PAD	24.0	28.0	42.00	7.50	5.2	0	0

For inserts: WPEB • WPEX .

For holders, see pages: C#-MAHD-JHP (11) • C#-MAHPD-JHP (13) • C#-MAHD (10) • C#-MAHPD (12) • C#-MAHUR/L (48) • C#-MAHDR-45 (47) • C#-MAHDOR (48) • HSK A63WH-MAHUR/L (61) • HSK A63WH-MAHDR-45 (60) • HSK A63WH-MAHDOR (61)

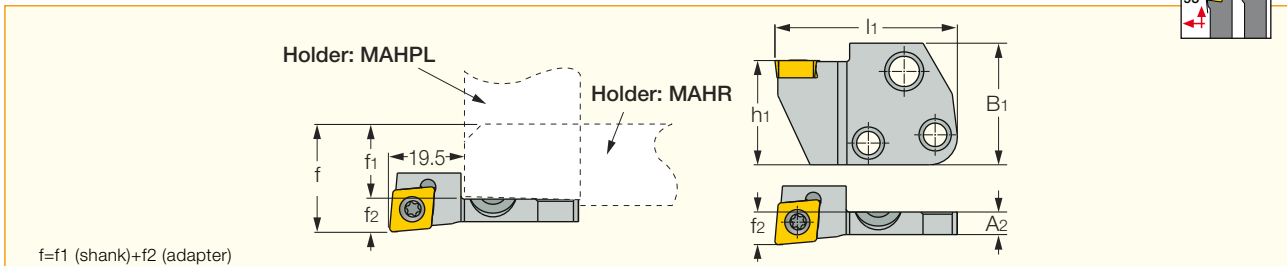
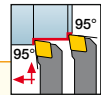
Spare Parts



Designation	Screw	Key
SWAPR-PAD	SR M3.5R	T-8/5

SCLCR-PAD

Screw Lock Adapter for 80° Diamond Inserts with 7° Clearance Angle



$f=f_1(\text{shank})+f_2(\text{adapter})$

Designation	l_1	f_2	A_2	G_a°	G_r°
SCLCR-09-PAD	42.00	7.50	5.2	0	0

For inserts: CCET-WF • CCGT-AF • CCGT-AS • CCGW/CCMW-M2 (CBN) • CCMT (CBN) • CCMT (PCD) • CCMT-14 • CCMT-F3M • CCMT-F3P • CCMT-M3M • CCMT-M3P • CCMT-PF • CCMT-WG • CCMT/CCGT • CCMT/CCGT-SM .

For holders, see pages: C#-MAHPD-JHP (13) • C#-MAHD-JHP (11) • C#-MAHD (10) • C#-MAHPD (12) • C#-MAHUR/L (48) • C#-MAHDR-45 (47) • C#-MAHDOR (48) • HSK A63WH-MAHUR/L (61) • HSK A63WH-MAHDR-45 (60) • HSK A63WH-MAHDOR (61)

Spare Parts

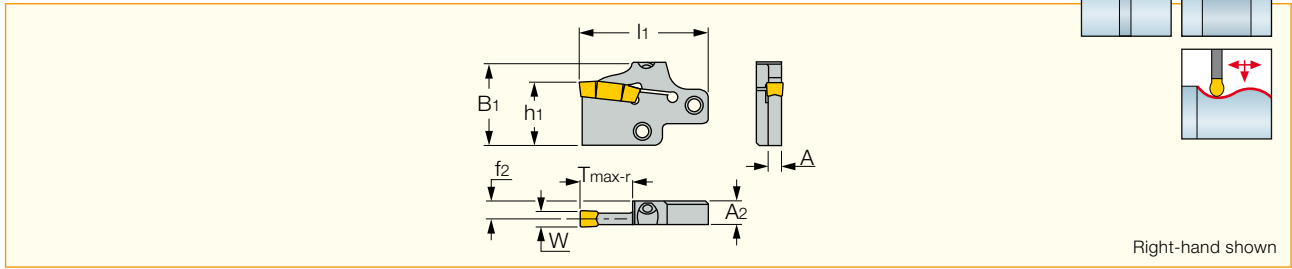


Designation	Screw	Key
SCLCR-PAD	SR 16-236	T-15/5

GADR/L-8

Adapters for up to 25 mm Deep Machining

Quick Change
High Precision
Tools and Holders for
MAXIMUM
MACHINING PERFORMANCE



Designation	W _{min}	W _{max}	T _{max-r}	A	h ₁	B ₁	l ₁	A ₂	f ₂
GADR/L 8	6.60	8.30	25.50	6.00	-	42.0	63.00	12.0	9.00

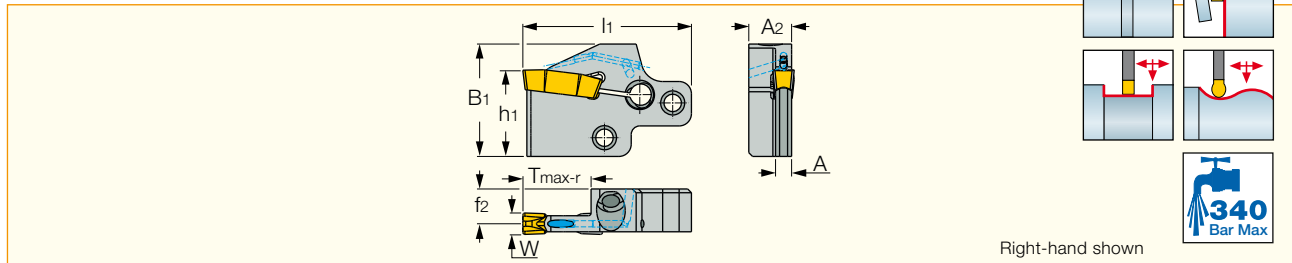
For inserts: GDMA • GDMF • GDMM-CC • GDMN • GDMU • GDMY • GDMY (full radius) • GDMY-F • GIA-K (long pocket) • GIF-E (W=8,10 full radius) • GIF-E (W=8,10) • GIPA/GIDA 8 (full radius) .

For holders, see pages: C#-GHAD-8 (13) • C#-GHAPR/L-8 (15)

CUT-GRIP • JET HPLINE

GADR/L-JHP

Adapters for up to 25 mm Deep Machining with High Pressure Coolant Channels Carrying Groove-Turn Inserts



Designation	W _{min}	W _{max}	T _{max-r}	A	h ₁	B ₁	l ₁	A ₂	f ₂
GADR/L 8-JHP	6.60	8.30	25.50	6.00	32.0	42.0	63.00	17.0	14.00
GADR/L 10-JHP	8.60	10.30	25.50	7.40	32.0	42.0	63.00	17.7	14.00

For inserts: GDMA • GDMF • GDMM-CC • GDMN • GDMU • GDMY • GDMY (full radius) • GDMY-F • GDPY • GIA-K (long pocket) • GIF (long pocket) • GIF-E (W=8,10 full radius) • GIF-E (W=8,10) • GIPA/GIDA 8 (full radius) .

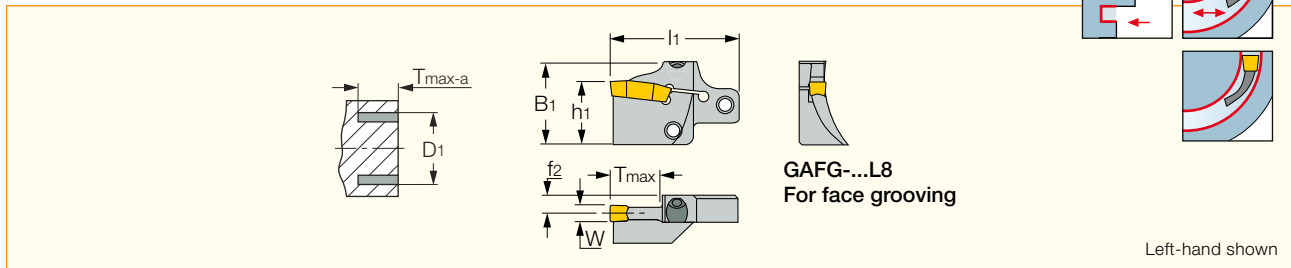
For holders, see pages: C#-GHAD-8-JHP (14)

Flow Rate vs. Pressure

Designation	70 bar Flow Rate (liters/min)	100 bar Flow Rate (liters/min)	140 bar Flow Rate (liters/min)
GADR/L-JHP	15-17	23-25	27-29

GAFG-R/L-8

Adapters for Face Machining



Designation	W	D1 min ⁽¹⁾	D1 max ⁽²⁾	T_max-a ⁽³⁾	f2	h1	B1	l1
GAFG 80R/L-8	8.00	80.0	115.0	23.00	9.00	32.0	42.0	63.50
GAFG 105R/L-8	8.00	105.0	160.0	25.00	9.00	32.0	42.0	63.50
GAFG 155R/L-8	8.00	155.0	510.0	25.00	9.00	32.0	42.0	63.50

• No limitation for widening of groove either way after initial grooving

⁽¹⁾ Minimum penetration diameter ⁽²⁾ Maximum penetration diameter ⁽³⁾ For GIFG-8 & GDMY-8 T_max=25 mm for D range.

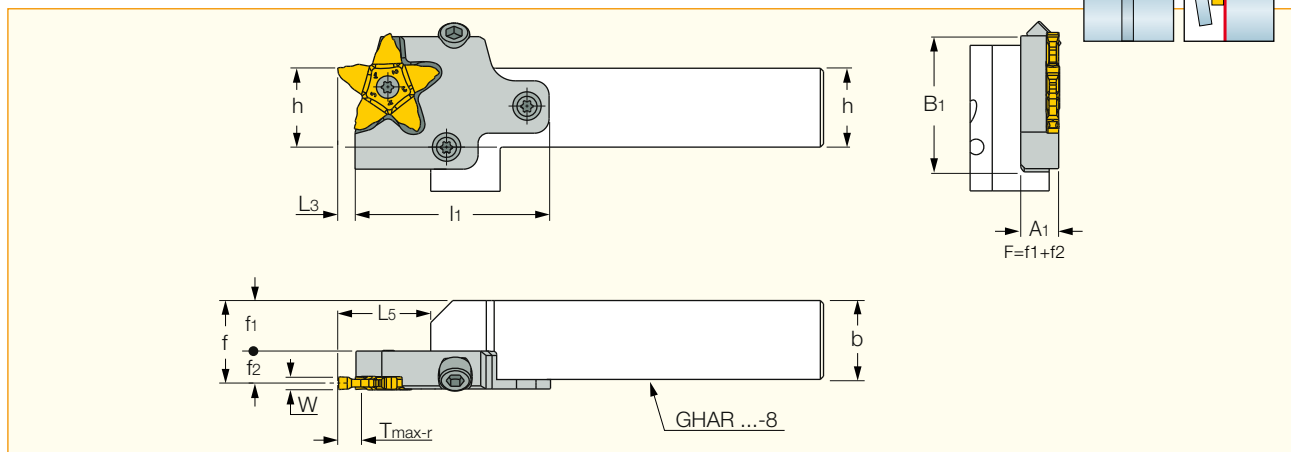
For inserts: GDMA • GDMF • GDMM-CC • GDMN • GDMU • GDMY • GDMY (full radius) • GDMY-F • GIA-K (long pocket) • GIF (long pocket) • GIF-E (W=8,10 full radius) • GIF-E (W=8,10) • GIFG-E (W=8) • GIPA/GIDA 8 (full radius) .

For holders, see pages: C#-GHAD-8 (13) • C#-GHAPR/L-8 (15)

PENTACUT

PCADR/L 34N-RE

Reinforced Adapters for PENTACUT Grooving Inserts



Designation	W min	W max	L3	L5	l1	f2	B1	A1
PCADR/L 34N-RE	1.50	4.00	5.50	29.50	61.50	10.15	42.0	12.00

• T_max and D_max according to insert limitation • h, b, and f1 according to holder being used

For inserts: PENTA 34F-R/L • PENTA 34N-C • PENTA 34N-J • PENTA 34N-PB • PENTA 34R/L-C • PENTA 34R/L-J • PENTA 34R/L-PB .

For holders, see pages: C#-GHAD-8 (13) • C#-GHAPR/L-8 (15)

Spare Parts

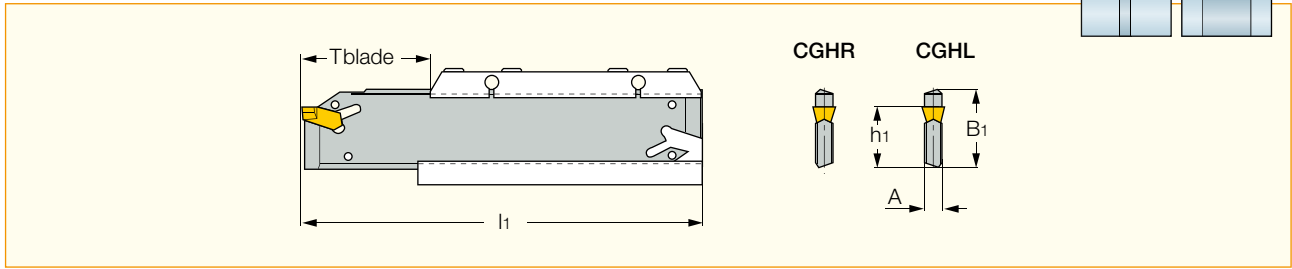


Designation	Screw	Key
PCADR/L 34N-RE	SR 16-212-01397	T-2010/5

CGHR/L-P8DG

Double-Ended Heavy Duty Self-Clamped Grooving and Turning Blades

Quick Change
High Precision
Tools and Holders for
MAXIMUM
MACHINING PERFORMANCE



Designation	W	T blade ⁽¹⁾	A	h ₁	B ₁	l ₁
CGHR/L 32-P8DG	8.00	40.0	6.80	24.8	32.0	150.00

⁽¹⁾ If D (workpiece) is smaller than 200 mm, then Tmax=48, if D (workpiece) is larger than 200 mm, then Tmax=43.

For inserts: GIMF • GIMM 8CC • GIMY • GIMY (full radius) • GIMY-F • GIPY .

For holders, see pages: C#-TBK-R/L (16) • HSK A-WH-TBK-R/L (56)

Spare Parts



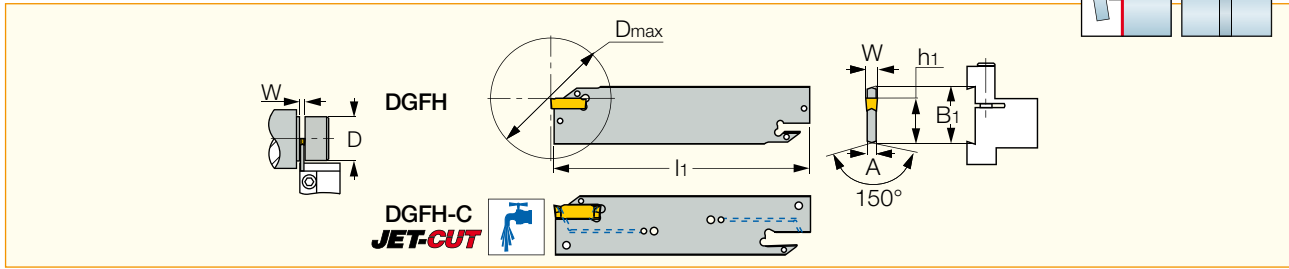
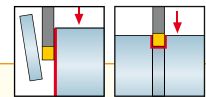
Designation	Extractor
CGHR/L-P8DG	EDG 44A*

* Optional, should be ordered separately



DGFH

Parting and Grooving Blades with and without Coolant Holes for DO-GRIP and HELI-GRIP Inserts



Designation	B ₁	W _{min}	W _{max}	A	l ₁	h ₁	D _{max}	Insert
DGFH 26-1.4	26.0	1.40	1.40	2.50 ⁽⁵⁾	110.00	21.4	26.0	DG. 14..
DGFH 26-2 ⁽¹⁾	26.0	1.90 ⁽⁴⁾	2.50	1.60	110.00	21.4	39.0 ⁽⁶⁾	DG. 1.../DG. 2...
DGFH 26-3 ⁽¹⁾	26.0	3.00 ⁽⁴⁾	3.18	2.40	110.00	21.4	39.0 ⁽⁶⁾	DG. 1.../DG. 3...
DGFH 26C-3 ⁽²⁾	26.0	3.00	3.18	2.40	110.00	21.4	39.0 ⁽⁶⁾	DG. 3..C
DGFH 26-4	26.0	4.00	4.00	3.20	110.00	21.4	80.0	DG. 4.../GRIP 4...
DGFH 32-1.4	32.0	1.40	1.40	2.50 ⁽⁵⁾	150.00	24.8	26.0	DG. 14
DGFH 32-2 ⁽¹⁾	32.0	1.90 ⁽⁴⁾	2.50	1.80	150.00	24.8	39.0 ⁽⁶⁾	DG. 1.../DG. 2...
DGFH 32-3 ⁽¹⁾	32.0	3.00 ⁽⁴⁾	3.18	2.40	150.00	24.8	39.0 ⁽⁷⁾	DG. 1.../DG. 3...
DGFH 32C-3 ⁽²⁾	32.0	3.00	3.18	2.40	150.00	24.8	39.0 ⁽⁷⁾	DG. 3..C
DGFH 32-4	32.0	4.00	4.00	3.20	150.00	24.8	100.0	DG. 4.../GRIP 4...
DGFH 32C-4 ⁽³⁾	32.0	4.00	4.00	3.20	150.00	24.8	69.0	DG. 4..C
DGFH 32-5	32.0	5.00	5.00	4.00	150.00	24.8	120.0	DG. 5.../GRIP 5...
DGFH 32-6	32.0	6.00	6.35	5.20	150.00	24.8	120.0	DG. 6.../GRIP 6...
DGFH 45-3	45.0	3.00 ⁽⁴⁾	3.18	2.40	225.00	38.0	160.0	DG. 1.../DG. 3...
DGFH 45-4	45.0	4.00	4.10	3.20	225.00	38.0	160.0	DG. 4.../GRIP 4...
DGFH 45-5	45.0	4.80	5.00	4.00	225.00	38.0	160.0	DG. 5.../GRIP 5...
DGFH 45-6	45.0	6.00	6.40	5.20	225.00	38.0	160.0	DG. 6.../GRIP 6...

• DG..1.0 insert can be mounted into pocket sizes 2 and 3. In that case the pocket width has to be modified.

⁽¹⁾ For Dmax 50 mm, use single-ended insert (should be modified by the user). ⁽²⁾ Blades with frontal coolant holes (JET-CUT) • For Dmax 50 mm, use single-ended insert (should be modified by the user). ⁽³⁾ These blades are suitable for turning, using GRIP 4 inserts • Blades with frontal coolant holes (JET-CUT) ⁽⁴⁾ For DG. 1... insert, modify holder ⁽⁵⁾ Thickness at the D.O.C. area is 1.0 mm ⁽⁶⁾ Maximum diameter with double-sided inserts. ⁽⁷⁾ Maximum diameter with double-sided inserts.

For inserts: DGN-MF • DGN/DGNC/DGNM-C • DGR/L-C DGRC/LC-C • DGN/DGNM-J/JS/JT • DGR/L-J/JS • DGN-P • DGN-UT/UA • DGN-W • DGN-WP • DGN-Z • DGR-P • DGR-WP • DGR-Z/ZS • GRIP • GRIP (full radius) .

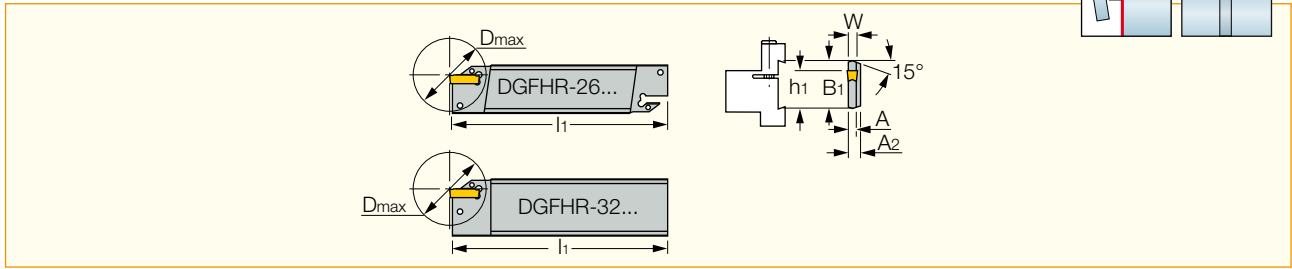
For holders, see pages: C#-TBK-R/L (16) • HSK A-WH-TBK-R/L (56)

Spare Parts



Designation	Extractor	Sealing Screw	Cooling Tube	Pipe Fitting	Pipe Fitting 1	Pipe Fitting 2
DGFH 26-1.4	EDG 23B*					
DGFH 26-2	EDG 23A*					
DGFH 26-3	EDG 23A*					
DGFH 26C-3	EDG 23A*	SGC 340	SGCU 341*	CGF 343*	CF 343*	CGM 343*
DGFH 26-4	EDG 23A*					
DGFH 32-1.4	EDG 23B*					
DGFH 32-2	EDG 33A*					
DGFH 32-3	EDG 33A*					
DGFH 32C-3	EDG 33A*	SGC 340	SGCU 341*	CGF 343*	CF 343*	CGM 343*
DGFH 32-4	EDG 33A*					
DGFH 32C-4	EDG 33A*	SGC 340	SGCU 341*	CGF 343*	CF 343*	CGM 343*
DGFH 32-5	EDG 33A*					
DGFH 32-6	EDG 33A*					
DGFH 45-3	EDG 33A*					
DGFH 45-4	EDG 33A*					
DGFH 45-5	EDG 33A*					
DGFH 45-6	EDG 33A*					

* Optional, should be ordered separately



Designation	B ₁	W _{min} ⁽¹⁾	W _{max}	A ₂	A	l ₁	h ₁	D _{max} ⁽²⁾	Machines	Insert
DGFHR 26T16-2	26.0	1.90	2.50	8.0	1.70	110.00	21.4	42.0	TNS-30	DG. 1.../DG. 2..
DGFHR/L 26T23-2	26.0	1.90	2.50	8.0	1.60	110.00	21.4	42.0	TNS-30/112	DG. 1.../DG. 2..
DGFHR/L 26T16-3	26.0	3.00	3.18	8.0	2.40	110.00	21.4	30.0	TNS-30	DG. 1.../DG. 3..
DGFHR/L 26T23-3	26.0	3.00	3.18	8.0	2.40	110.00	21.4	42.0	TNS-30/42	DG. 1.../DG. 3..
DGFHR/L 32T22-2	32.0	1.90	2.50	8.0	1.60	110.00	24.8	42.0	TNS-42	DG. 1.../DG. 2..
DGFHR/L 32T22-4	32.0	4.00	4.00	8.0	3.40	110.00	24.8	42.0	TNS-42	DG. 4.../GRIP 4..
DGFHR/L 32T33-3	32.0	3.00	3.18	8.0	2.40	110.00	24.8	60.0	TNS-42/60/65	DG. 1.../DG. 3..
DGFHR/L 32T33-4	32.0	4.00	4.00	8.0	3.40	110.00	24.8	60.0	TNS-42/60/65	DG. 4.../GRIP 4..
DGFHR/L 32T41-4	32.0	4.00	4.00	10.0	3.40	110.00	24.8	80.0	TNS-65/80/480	DG. 4.../GRIP 4..

• Insert limit is T_{max}=18 mm. If deeper penetration is required, the insert should be modified into single-ended by the user. • DG..1.0 insert can be mounted into pocket sizes 2 and 3. In that case the pocket width has to be modified.

⁽¹⁾ For DG: 1.0 insert - modify holder. ⁽²⁾ The specified limit refers to the tool.

For inserts: DGN-LF/LFT • DGN-P • DGN-UT/UA • DGN-WP • DGN-Z • DGN/DGNC/DGNM-C • DGN/DGNM-J/JS/JT • DGR-P • DGR-WP • DGR-Z/ZS • DGR/L-C DGRC/LC-C • DGR/L-J/JS.

For holders, see pages: C#-TBK-R/L (16) • HSK A-WH-TBK-R/L (56)

Spare Parts



Designation	Extractor
DGFHR 26T16-2	EDG 23A*
DGFHR/L 26T23-2	EDG 23A*
DGFHR/L 26T16-3	EDG 23A*
DGFHR/L 26T23-3	EDG 23A*
DGFHR/L 32T22-2	EDG 33A*
DGFHR 32T22-4	EDG 33A*
DGFHR/L 32T33-3	EDG 33A*
DGFHR/L 32T33-4	EDG 33A*
DGFHR/L 32T41-4	EDG 33A*

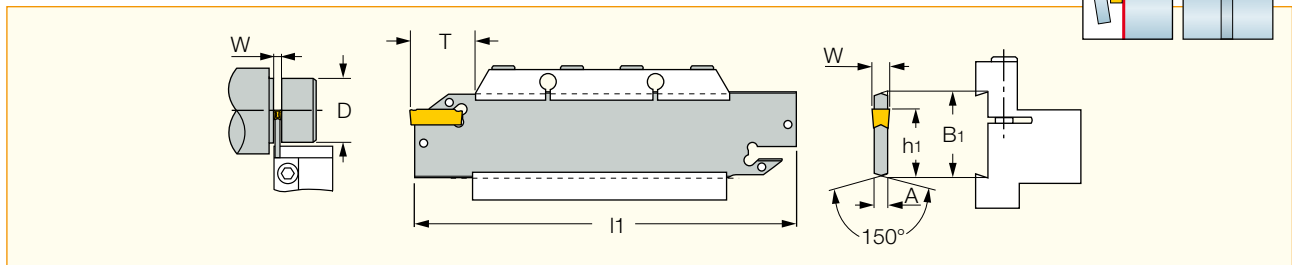
* Optional, should be ordered separately

DO-GRIP • HELI-GRIP

TWISTED 2-SIDED

HGFH

Parting and Grooving Blades for 3 mm GRIP Inserts



Designation	B ₁	W	A	l ₁	h ₁	T blade
HGFH 26-3	26.0	3.00	2.40	110.00	21.4	37.5
HGFH 32-3	32.0	3.00	2.40	150.00	24.8	50.0

For inserts: GRIP • GRIP (full radius) • HGN-C • HGR/L-C • HGN-J • HGN-UT • HGR/L-J/JS.

For holders, see pages: C#-TBK-R/L (16) • HSK A-WH-TBK-R/L (56)

Spare Parts

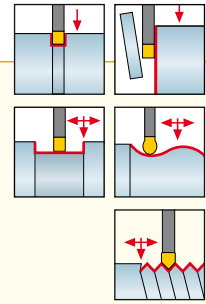
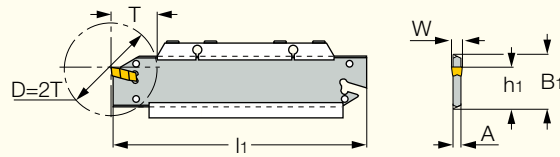


Designation	Extractor
HGFH	EDG 23B*

* Optional, should be ordered separately

CGHN-DG

Double-Ended Blades for External Grooving and Turning Self-Clamped Inserts



Designation	B ₁	W _{min}	W _{max}	T _{turn}	T _{groove}	h ₁	l ₁	A
CGHN 32-3DG	32.0	2.80	4.00	25.0	50.0	24.8	150.00	2.40
CGHN 32-4DG	32.0	3.50	5.00	30.0	50.0	24.8	150.00	3.20
CGHN 32-5DG	32.0	4.40	6.40	33.0	60.0	24.8	150.00	4.00
CGHN 32-6DG	32.0	5.50	6.40	35.0	60.0	24.8	150.00	5.20

• DO-GRIP clamping insert is self-retained for long overhang. • For using TIP inserts, toolholder seat needs to be modified according to insert profile to ensure clearance. • When using a double-ended insert, grooving depth is limited by the insert.

For inserts: GIA-K (W=3-6) • GIF • GIF (full radius) • GIF-E (W=4-6 full radius) • GIF-E (W=4-6) • GIM-C • GIM-J • GIM-J-RA/LA • GIM-UT • GIM-UT-RA/LA • GIM-W • GIM-W-RA/LA • GIMF • GIMN • GIMY • GIMY (full radius) • GIMY-F • GIP • GIP (full radius) • GIP-E • GIP-E (full radius) • GIP-UN • GIPA (full radius W=3-6) • GIPA (W=3-6) • GIPM-A46 / GIP-1250 • GIPY • GITM • GITM (full radius) • TIP-MT • TIP-P-BSPT • TIP-P-BSW • TIP-P-ISO • TIP-P-NPT • TIP-P-UN • TIP-WT.

For holders, see pages: C#-TBK-R/L (16) • HSK A-WH-TBK-R/L (56)

Spare Parts



Designation	Extractor
CGHN-DG	EDG 44A*

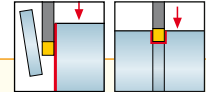
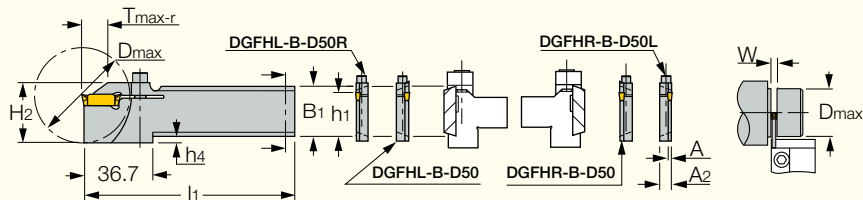
* Optional, should be ordered separately

DO-GRIP

TWISTED 2-SIDED

DGFHR/L-B-D..(R/L)

Reinforced Type Blades with Screw Clamping



Designation	B ₁ ⁽⁴⁾	W _{min} ⁽⁵⁾	W _{max}	A	A ₂	l ₁	H ₂	h ₁	h ₄	T _{max-r}	D _{max} ⁽⁶⁾	Insert
DGFHR/L 26B-2D50 ⁽¹⁾	26.0	1.90	2.50	1.60	8.0	110.00	33.7	21.4	3.6	18.00	42.0	DG. 1.../DG. 2..
DGFHL 26B-2D50R ⁽²⁾	26.0	1.90	2.50	1.60	8.0	110.00	31.5	21.4	3.7	18.00	50.0	DG. 1.../DG. 2..
DGFHR 26B-2D50L ⁽²⁾	26.0	1.90	2.50	1.60	8.0	110.00	31.5	21.4	3.7	18.00	50.0	DG. 1.../DG. 2..
DGFHR/L 26B-3D50 ⁽¹⁾	26.0	3.00	3.18	2.40	8.0	110.00	31.5	21.4	3.7	18.00	30.0	DG. 1.../DG. 3..
DGFHL 26B-3D50R ⁽²⁾	26.0	3.00	3.18	2.40	8.0	110.00	31.5	21.4	3.7	18.00	50.0	DG. 1.../DG. 3..
DGFHR 26B-3D50L ⁽²⁾	26.0	3.00	3.18	2.40	8.0	110.00	31.5	21.4	3.7	18.00	50.0	DG. 1.../DG. 3..
DGFHR/L 32B-2D50 ⁽³⁾	32.0	1.90	2.50	1.60	8.0	120.00	31.5	24.8	-	18.00	42.0	DG. 1.../DG. 2..
DGFHL 32B-2D50R ⁽²⁾	32.0	1.90	2.50	1.60	8.0	120.00	31.5	24.8	-	18.00	50.0	DG. 1.../DG. 2..
DGFHR 32B-2D50L ⁽²⁾	32.0	1.90	2.50	1.60	8.0	120.00	31.5	24.8	-	18.00	50.0	DG. 1.../DG. 2..
DGFHR/L 32B-3D50 ⁽³⁾	32.0	3.00	3.18	2.40	8.0	120.00	31.5	24.8	-	18.00	42.0	DG. 1.../DG. 3..
DGFHL 32B-3D50R ⁽²⁾	32.0	3.00	3.18	2.40	8.0	120.00	31.5	24.8	-	18.00	50.0	DG. 1.../DG. 3..
DGFHR 32B-3D50L ⁽²⁾	32.0	3.00	3.18	2.40	8.0	120.00	31.5	24.8	-	18.00	50.0	DG. 1.../DG. 3..

• Insert limit is T_{max}=18 mm. If deeper penetration is required, the insert should be modified into single-ended by the user. • DG..1.0 insert can be mounted into pocket sizes 2 and 3. In that case the pocket width has to be modified.

⁽¹⁾ For Traub machines, model TNC 30, TNM 28, TNS 26/30/42/112, TNA 300, TNK 260. ⁽²⁾ For Tornos Bechler, Emco 2000/20, 2000/26 machines. ⁽³⁾ For Traub machines, model TNC 42/65, TNM 42/65, TNS 42/60/65, TNA 300/400. ⁽⁴⁾ Mounted on all ISCAR standard blocks. ⁽⁵⁾ For DG: 1.0 insert - modify holder. ⁽⁶⁾ The specified limit refers to the tool.

For inserts: DGN-LF/LFT • DGN-P • DGN-UT/UA • DGN-WP • DGN-Z • DGN/DGNC/DGNM-C • DGN/DGNM-J/JS/JT • DGR-Z/ZS • DGR/L-C DGRC/LC-C.

For holders, see pages: C#-TBK-R/L (16) • HSK A-WH-TBK-R/L (56).

Spare Parts

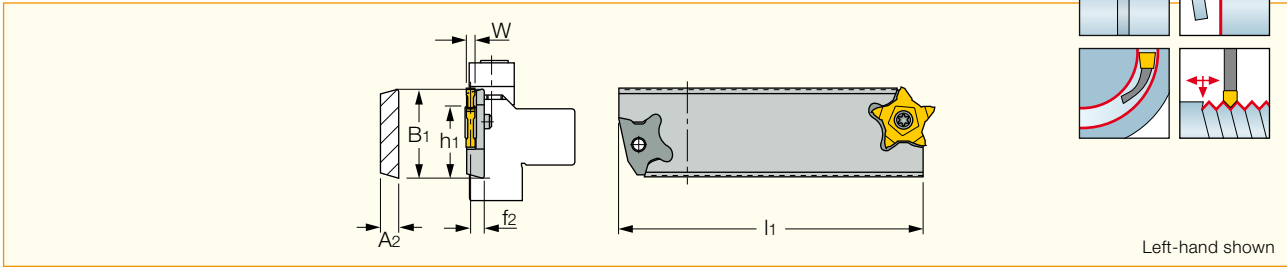


Designation	Screw	Key
DGFHR/L-B-D..(R/L)	SR M4X20DIN912 12.9	HW 3.0

PCHBR/L

Double-Ended Parting and Grooving Blades for PENTACUT Inserts

Quick Change
High Precision
Tools and Holders for
MAXIMUM
MACHINING PERFORMANCE



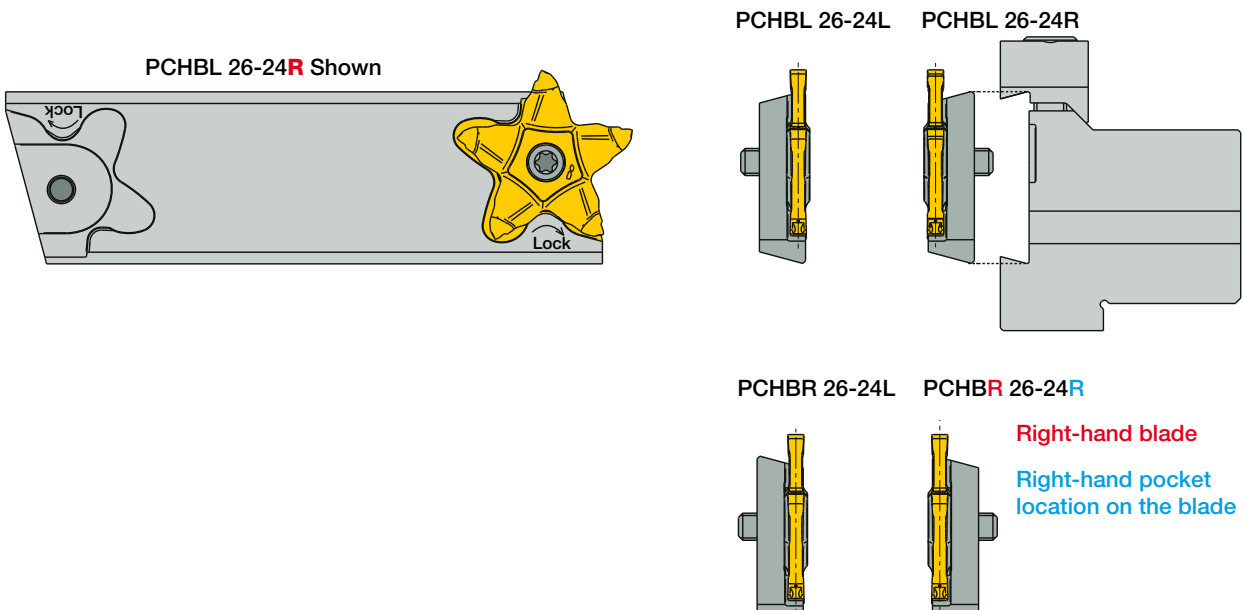
Left-hand shown

Designation	B ₁	W _{min}	W _{max}	h ₁	f ₂ ⁽²⁾	l ₁	A ₂	Insert
PCHBL 26-24R	26.0	0.50	6.20	21.4	7.00	110.00	8.5	PENTA 24
PCHBR 26-24L	26.0	0.50	6.20	21.4	7.00	110.00	8.5	PENTA 24
PCHBR 26-24R	26.0	0.50	6.20	21.4	1.50	110.00	8.5	PENTA 24
PCHBL 32-24R	32.0	0.50	6.20	24.8	7.00	110.00	8.5	PENTA 24
PCHBR 32-24L	32.0	0.50	6.20	24.8	7.00	110.00	8.5	PENTA 24
PCHBL 26-34R ⁽¹⁾	26.0	1.50	4.00	21.4	7.15	110.00	8.5	PENTA 34
PCHBR 26-34L ⁽¹⁾	26.0	1.50	4.00	21.4	7.15	110.00	8.5	PENTA 34
PCHBR 26-34R ⁽¹⁾	26.0	1.50	4.00	21.4	1.35	110.00	8.5	PENTA 34
PCHBL 32-34R	32.0	1.50	4.00	24.8	7.15	110.00	8.5	PENTA 34
PCHBR 32-34L	32.0	1.50	4.00	24.8	7.15	110.00	8.5	PENTA 34

⁽¹⁾ Single pocket blade ⁽²⁾ To the center of inserts up to 4.15 mm width

For inserts: PENTA 24-BSPT • PENTA 24-ISO • PENTA 24-MT • PENTA 24-NPT • PENTA 24-UN • PENTA 24-W • PENTA 24-WT • PENTA 24N-C • PENTA 24N-C (full radius) • PENTA 24N-J • PENTA 24N-J (full radius) • PENTA 24N-PF/P • PENTA 24N-Z • PENTA 24R-P • PENTA 24R/L-C • PENTA 24R/L-J • PENTA 24R/L-Z • PENTA 34F-R/L • PENTA 34N-C • PENTA 34N-J • PENTA 34N-PB • PENTA 34R/L-C • PENTA 34R/L-J • PENTA 34R/L-PB .

For holders, see pages: C#-TBK-R/L (16) • HSK A-WH-TBK-R/L (56) .

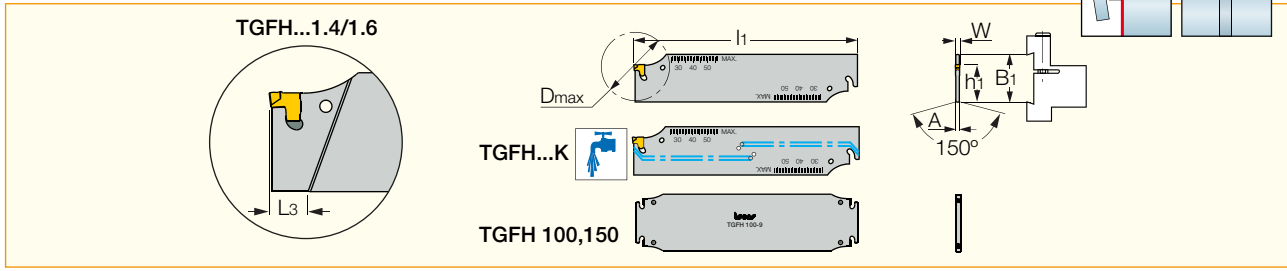


Spare Parts



Designation	Screw	Key
PCHBR/L 26-24R	SR 16-212-01397L	T-2010/5
PCHBR 26-24L	SR 16-212-01397	T-2010/5
PCHBL 32-24R	SR 16-212-01397L	T-2010/5
PCHBR 32-24L	SR 16-212-01397	T-2010/5
PCHBR/L 26-34R	SR 16-212-01397	T-2010/5
PCHBL 32-34R	SR 16-212-01397	T-2010/5
PCHBR 32-34L	SR 16-212-01397	T-2010/5

Blades with Tangentially Oriented Pocket for Parting and Grooving,
 for TANG-GRIP Single-Ended Inserts

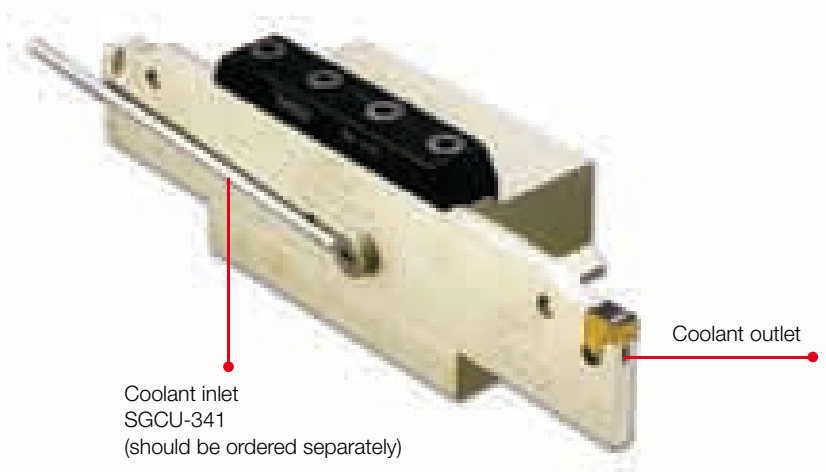


Designation	B ₁	W _{min}	W _{max}	A	l ₁	L ₃	h ₁	D _{max}	Coolant	Insert
TGFH 19-1.4	19.0	1.40	1.40	1.05 ⁽²⁾	86.00	9.60	15.7	30.0	-	TAG 1.4
TGFH 19-1.6	19.0	1.60	1.60	1.30 ⁽²⁾	86.00	11.00	15.7	32.0	-	TAG 1.6
TGFH 19-2	19.0	1.80	2.40	1.65	86.00	-	15.7	38.0	-	TAG 2
TGFH 26-1.4	26.0	1.40	1.40	1.05 ⁽²⁾	110.00	8.30	21.4	29.0	-	TAG 1.4
TGFH 26-1.6	26.0	1.60	1.60	1.30 ⁽²⁾	110.00	10.00	21.4	35.0	-	TAG 1.6
TGFH 26-2	26.0	1.80	2.40	1.65	110.00	-	21.4	50.0	-	TAG 2
TGFH 26-3	26.0	2.80	3.50	2.50	110.00	-	21.4	75.0	-	TAG 3
TGFH 26K-3 ⁽¹⁾	26.0	2.80	3.50	2.50	110.00	-	21.4	75.0	Y	TAG 3
TGFH 26-4	26.0	3.70	4.50	3.40	110.00	-	21.4	80.0	-	TAG 4
TGFH 26-5	26.0	4.70	5.50	4.00	150.00	-	21.4	80.0	-	TAG 5
TGFH 32-1.4	32.0	1.40	1.40	1.05 ⁽²⁾	150.00	7.10	24.8	29.0	-	TAG 1.4
TGFH 32-1.6	32.0	1.60	1.60	1.30 ⁽²⁾	150.00	10.00	24.8	38.0	-	TAG 1.6
TGFH 32-2	32.0	1.80	2.40	1.65 ⁽²⁾	150.00	-	24.8	50.0	-	TAG 2
TGFH 32-3	32.0	2.80	3.50	2.50	150.00	-	24.8	100.0	-	TAG 3
TGFH 32K-3 ⁽¹⁾	32.0	2.80	3.50	2.50	150.00	-	24.8	100.0	Y	TAG 3
TGFH 32-4	32.0	3.70	4.50	3.40	150.00	-	24.8	100.0	-	TAG 4
TGFH 32K-4 ⁽¹⁾	32.0	3.70	4.50	3.40	150.00	-	24.8	100.0	Y	TAG 4
TGFH 32-5	32.0	4.70	5.50	4.00	150.00	-	24.8	120.0	-	TAG 5
TGFH 32-6	32.0	5.70	6.50	5.20	150.00	-	24.8	120.0	-	TAG 6
TGFH 32-7	32.0	6.80	7.50	6.00	148.00	-	24.8	120.0	-	TAG 7
TGFH 45-3	45.0	2.80	3.50	2.50	225.00	-	38.1	160.0	-	TAG 3
TGFH 45-4	45.0	3.70	4.50	3.40	225.00	-	38.1	160.0	-	TAG 4
TGFH 45-5	45.0	4.70	5.50	4.00	225.00	-	38.1	160.0	-	TAG 5
TGFH 45-6	45.0	5.70	6.50	5.20	225.00	-	38.1	160.0	-	TAG 6
TGFH 45-7	45.0	6.80	7.50	6.00	225.00	-	38.1	160.0	-	TAG 7
TGFH 52-7	52.6	6.80	7.50	6.00	190.00	-	45.2	190.0	-	TAG 7
TGFH 53-7	52.6	6.80	7.50	6.00	260.00	-	45.2	220.0	-	TAG 7
TGFH 52K-8 ⁽¹⁾	52.6	7.70	8.50	7.20	190.00	-	45.2	190.0	Y	TAG 8
TGFH 53K-8 ⁽¹⁾	52.6	7.70	8.50	7.20	260.00	-	45.2	215.0	Y	TAG 8
TGFH 52K-9 ⁽¹⁾	52.6	8.70	10.00	8.20	190.00	-	45.2	190.0	Y	TAG 9
TGFH 53K-9 ⁽¹⁾	52.6	8.70	10.00	8.20	260.00	-	45.2	215.0	Y	TAG 9
TGFHR/L 53K-12 ⁽¹⁾	52.6	11.70	12.70	10.00	260.00	-	45.2	215.0	Y	TAG 12
TGFH 100-9	100.0	8.70	10.00	8.20	460.00	-	92.5	450.0	-	TAG 9
TGFH 100-12	100.0	11.70	12.70	10.00	460.00	-	92.5	450.0	-	TAG 12
TGFH 150-12	150.0	11.70	12.70	10.00	610.00	-	142.5	600.0	-	TAG 12

⁽¹⁾ With coolant holes, recommended coolant pressure: 10 bar min, cooling tube SGCU 341 should be ordered separately. ⁽²⁾ Thickness beyond the D.O.C. area is 2.50 mm ⁽³⁾ Thickness beyond the D.O.C. area is 1.60 mm

For inserts: TAG N-A • TAG N-C/W/M • TAG N-J/JS/JT • TAG N-LF • TAG N-MF • TAG N-UT • TAG R/L-C • TAG R/L-J/JS • TAGB/TAGBA .

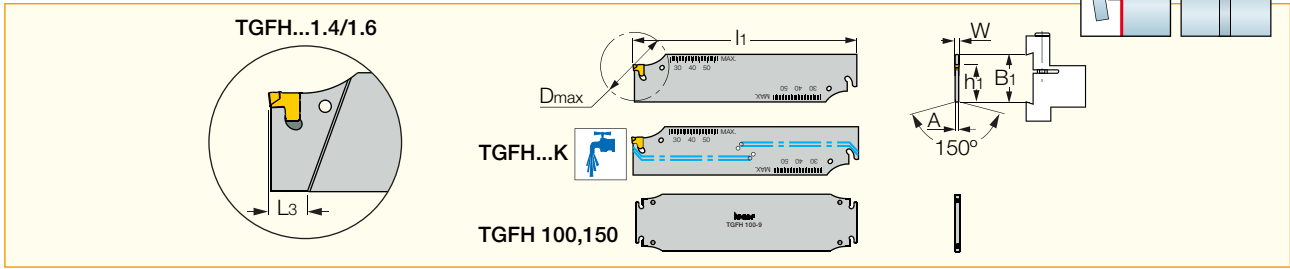
For holders, see pages: C#-TBK-R/L (16) • HSK A-WH-TBK-R/L (56)



TGFH/R/L (continued)

Blades with Tangentially Oriented Pocket for Parting and Grooving, for TANG-GRIP Single-Ended Inserts

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Spare Parts

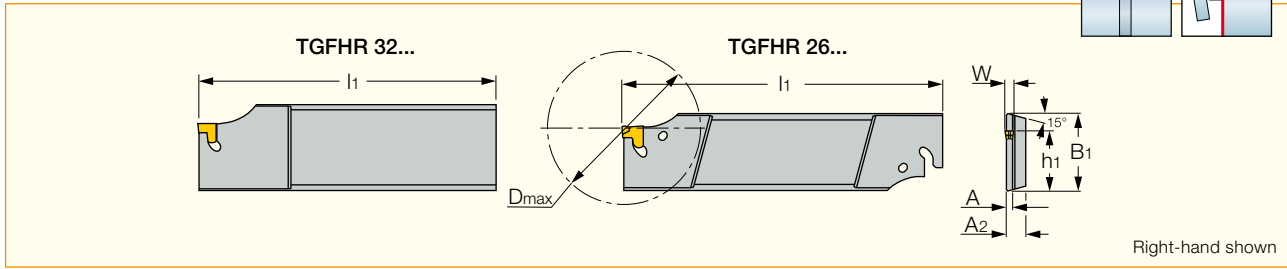
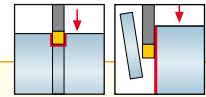


Designation	Extractor	Sealing Screw	Cooling Tube
TGFH 19-1.4	ETG 1.4/1.6*		
TGFH 19-1.6	ETG 1.4/1.6*		
TGFH 26-1.4	ETG 1.4/1.6*		
TGFH 26-1.6	ETG 1.4/1.6*		
TGFH 26-2	ETG 2*		
TGFH 26-3	ETG 3-4*		
TGFH 26K-3	ETG 3-4-SH*	SGC 340	
TGFH 26-4	ETG 3-4*		
TGFH 26-5	ETG 5-7*		
TGFH 32-1.4	ETG 1.4/1.6*		
TGFH 32-1.6	ETG 1.4/1.6*		
TGFH 32-2	ETG 2*		
TGFH 32-3	ETG 3-4*		
TGFH 32K-3	ETG 3-4-SH*	SGC 340	
TGFH 32-4	ETG 3-4*		
TGFH 32K-4	ETG 3-4-SH*	SGC 340	
TGFH 32-5	ETG 5-7*		
TGFH 32-7	ETG 5-7*		
TGFH 45-3	ETG 3-4*		
TGFH 45-4	ETG 3-4*		
TGFH 45-5	ETG 5-7*		
TGFH 45-6	ETG 5-7*		
TGFH 45-7	ETG 5-7*		
TGFH 52-7	ETG 5-7*		
TGFH 53-7	ETG 5-7*		
TGFH 52K-8	ETG 8-12*		SGCU 341*
TGFH 53K-8	ETG 8-12*		SGCU 341*
TGFH 52K-9	ETG 8-12*		SGCU 341*
TGFH 53K-9	ETG 8-12*		SGCU 341*
TGFHR/L 53K-12	ETG 8-12*		SGCU 341*
TGFH 100-9	ETG 8-12*		
TGFH 100-12	ETG 8-12*		
TGFH 150-12	ETG 8-12*		

* Optional, should be ordered separately

TGFHR/L

Single- and Double-Ended Parting and Grooving Reinforced Blades for TANG-GRIP Tangentially Clamped Inserts



Designation	B ₁	W _{min}	W _{max}	A	A ₂	l ₁	h ₁	D _{max}
TGFHL 26T16-2	26.0	1.80	2.40	1.65	7.9	110.50	21.4	43.0
TGFHR 26T16-3	26.0	2.80	3.50	2.50	7.9	110.50	21.4	43.0
TGFHR/L 26T23-2	26.0	1.80	2.40	1.65	7.9	110.50	21.4	56.0
TGFHR/L 26T23-3	26.0	2.80	3.50	2.50	7.9	110.50	21.4	46.0
TGFHR/L 32T22-2	32.0	1.80	2.40	1.65	7.9	110.50	24.8	42.0
TGFHR/L 32T22-3	32.0	2.80	3.50	2.50	7.9	110.50	24.8	42.0
TGFHR/L 32T33-3	32.0	2.80	3.50	2.50	7.9	110.50	24.8	66.0
TGFHR/L 32T33-4	32.0	3.70	4.50	3.40	7.9	110.50	24.8	66.0

For inserts: TAG N-A • TAG N-C/W/M • TAG N-J/JS/JT • TAG N-LF • TAG N-MF • TAG N-UT • TAG R/L-C • TAG R/L-J/JS .

For holders, see pages: C#-TBK-R/L (16) • HSK A-WH-TBK-R/L (56) .

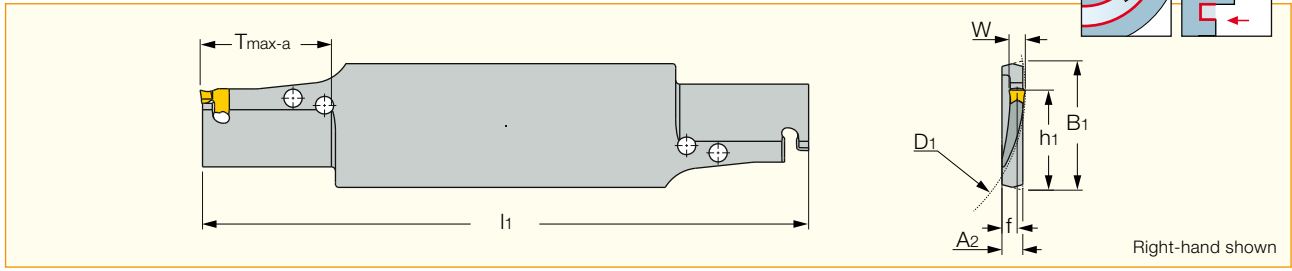
Spare Parts



Designation	Extractor
TGFHL 26T16-2	ETG 2*
TGFHR 26T16-3	ETG 3-4-SH*
TGFHR/L 26T23-2	ETG 2*
TGFHR/L 26T23-3	ETG 3-4-SH*
TGFHR/L 32T22-2	ETG 2*
TGFHR/L 32T22-3	ETG 3-4-SH*
TGFHR/L 32T33-3	ETG 3-4-SH*
TGFHR/L 32T33-4	ETG 3-4-SH*

* Optional, should be ordered separately

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Designation	W	D _{1 min} ⁽¹⁾	D _{1 max} ⁽²⁾	T _{max-a}	h ₁	B ₁	f	A ₂	l ₁	Insert
TNFFH 65R/L-3IQ	3.00	65.0	90.0	18.00	24.8	32.0	4.1	5.2	150.00	TNF 3...
TNFFH 90R/L-3IQ	3.00	90.0	120.0	18.00	24.8	32.0	4.1	5.2	150.00	TNF 3...
TNFFH 120R/L-3IQ	3.00	120.0	160.0	24.00	24.8	32.0	4.1	5.2	150.00	TNF 3...
TNFFH 80R/L-4IQ	4.00	80.0	150.0	32.00	24.8	32.0	3.8	5.2	150.00	TNF 4...
TNFFH 150R/L-4IQ	4.00	150.0	500.0	32.00	24.8	32.0	3.8	5.2	150.00	TNF 4...
TNFFH 80R/L-5IQ	5.00	80.0	150.0	30.00	24.8	32.0	3.5	5.2	150.00	TNF 5...
TNFFH 150R/L-5IQ	5.00	150.0	500.0	35.00	24.8	32.0	3.5	5.2	150.00	TNF 5...
TNFFH 80R/L-6IQ	6.00	80.0	150.0	30.00	24.8	32.0	3.3	5.2	150.00	TNF 6...
TNFFH 150R/L-6IQ	6.00	150.0	700.0	35.00	24.8	32.0	3.3	5.2	150.00	TNF 6...

• B₁ dimension links blades and blocks

⁽¹⁾ Minimum penetration diameter ⁽²⁾ Maximum penetration diameter

For inserts: TNF-M-IQ • TNF-P-IQ .

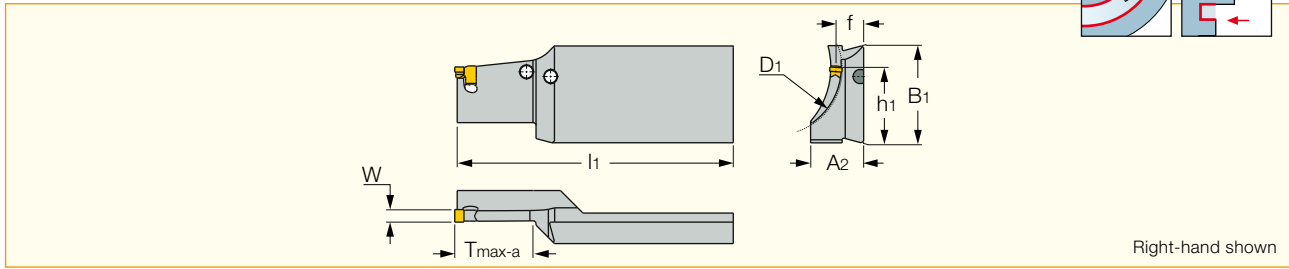
For holders, see pages: C#-TBK-R/L (16) • HSK A-WH-TBK-R/L (56)

Spare Parts



Designation	Extractor
TNFFH-IQ	ETF 3-6*

* Optional, should be ordered separately



Designation	W	D1 min ⁽¹⁾	D1 max ⁽²⁾	Tmax-a	B1	f	h1	l1	A2	Insert
TNFFA 30R/L-3IQ	3.00	30.0	35.0	19.00	32.0	9.5	24.8	90.00	18.5	TNF 3...
TNFFA 35R/L-3IQ	3.00	35.0	40.0	19.00	32.0	9.5	24.8	90.00	18.5	TNF 3...
TNFFA 40R/L-3IQ	3.00	40.0	46.0	23.00	32.0	9.5	24.8	90.00	18.5	TNF 3...
TNFFA 46R/L-3IQ	3.00	46.0	54.0	25.00	32.0	9.5	24.8	90.00	18.5	TNF 3...
TNFFA 54R/L-3IQ	3.00	54.0	65.0	26.00	32.0	9.5	24.8	90.00	18.5	TNF 3...
TNFFA 65R/L-3IQ	3.00	65.0	80.0	27.00	32.0	9.5	24.8	90.00	18.5	TNF 3...
TNFFA 80R/L-3IQ	3.00	80.0	100.0	27.00	32.0	9.5	24.8	90.00	16.7	TNF 3...
TNFFA 35R/L-4IQ	4.00	35.0	45.0	25.00	32.0	9.0	24.8	90.00	18.1	TNF 4...
TNFFA 45R/L-4IQ	4.00	45.0	60.0	25.00	32.0	9.0	24.8	90.00	17.3	TNF 4...
TNFFA 60R/L-4IQ	4.00	60.0	80.0	27.00	32.0	9.0	24.8	90.00	18.0	TNF 4...
TNFFA 80R/L-4IQ	4.00	80.0	130.0	27.00	32.0	9.0	24.8	90.00	14.8	TNF 4...
TNFFA 40R/L-5IQ	5.00	45.0	50.0	25.00	32.0	9.7	24.8	90.00	18.0	TNF 5...
TNFFA 50R/L-5IQ	5.00	60.0	70.0	28.00	32.0	9.7	24.8	90.00	18.0	TNF 5...
TNFFA 70R/L-5IQ	5.00	80.0	100.0	30.00	32.0	9.7	24.8	90.00	18.0	TNF 5...
TNFFA 100R/L-5IQ	5.00	100.0	180.0	35.00	32.0	9.7	24.8	90.00	18.0	TNF 5...
TNFFA 45R/L-6IQ	6.00	45.0	60.0	25.00	32.0	10.2	24.8	90.00	18.0	TNF 6...
TNFFA 60R/L-6IQ	6.00	60.0	80.0	28.00	32.0	10.2	24.8	90.00	18.0	TNF 6...
TNFFA 80R/L-6IQ	6.00	75.0	110.0	30.00	32.0	10.2	24.8	90.00	18.0	TNF 6...
TNFFA 110R/L-6IQ	6.00	100.0	300.0	35.00	32.0	10.2	24.8	90.00	18.0	TNF 6...

⁽¹⁾ Minimum penetration diameter ⁽²⁾ Maximum penetration diameter

For inserts: TNF-M-IQ • TNF-P-IQ .

For holders, see pages: C#-TBK-R/L (16) • HSK A-WH-TBK-R/L (56)

Spare Parts



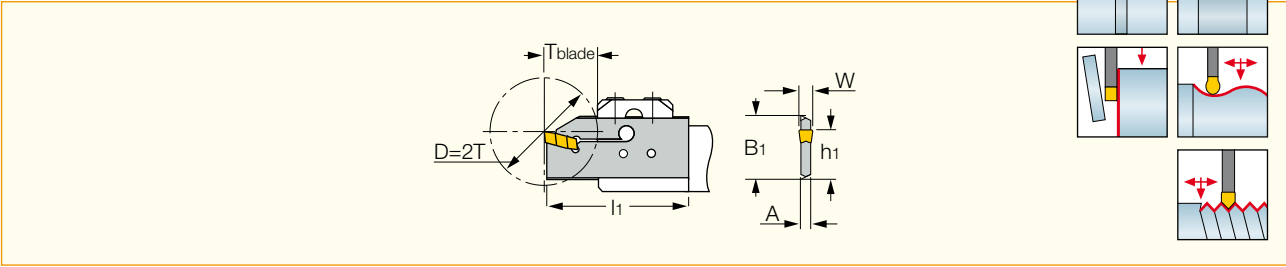
Designation	Extractor
TNFFA-IQ	ETF 3-6*

* Optional, should be ordered separately

CGHN-S

External Machining Single-Ended Blades

Quick Change
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Designation	B ₁	W _{min}	W _{max}	T bl _{min}	T blade	h ₁	l ₁	A
CGHN 32-3S	32.0	2.80	4.00	10.0	19.0	24.8	51.00	2.40
CGHN 32-4S	32.0	3.50	5.00	12.0	21.0	24.8	53.00	3.20
CGHN 32-5S	32.0	4.40	6.40	12.0	25.0	24.8	56.00	4.00
CGHN 32-6S	32.0	5.50	6.40	12.0	25.0	24.8	56.00	5.20

• When using a double-ended insert, grooving depth is limited by the insert.

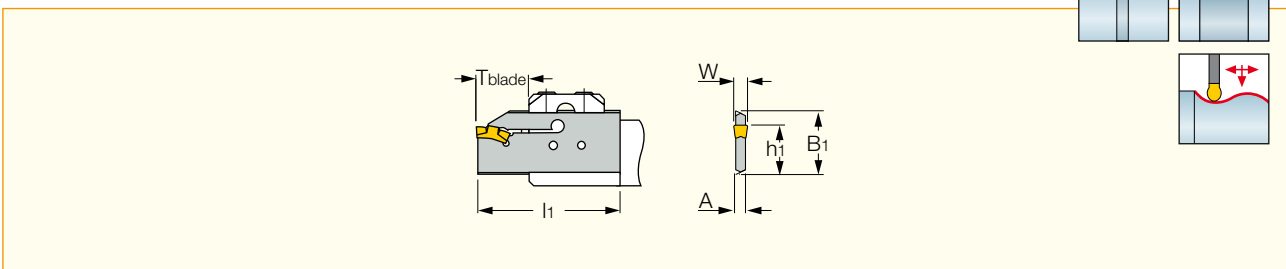
For inserts: GIA-K (W=3-6) • GIF • GIF (full radius) • GIF-E (W=4-6 full radius) • GIF-E (W=4-6) • GIM-C • GIM-J • GIM-J-RA/LA • GIM-UT • GIM-UT-RA/LA • GIM-W • GIM-W-RA/LA • GIMF • GIMN • GIMY • GIMY (full radius) • GIMY-F • GIP • GIP (full radius) • GIP-E • GIP-E (full radius) • GIPA (full radius W=3-6) • GIPA (W=3-6) • GIPM-A46 / GIP-1250 • GIPY • GITM • GITM (full radius) • TIP-MT • TIP-P-BSPT • TIP-P-BSW • TIP-P-ISO • TIP-P-NPT • TIP-P-UN • TIP-WT .

For holders, see pages: C#-TBU (17)

TOP-GRIP

TGHN-S

Single-Ended Blades for Utility Grooving and Turning Inserts



Designation	B ₁	W _{min}	W _{max}	T bl _{min}	T blade	h ₁	l ₁	A	Insert
TGHN 32-3S	32.0	3.00	3.00	10.0	18.0	24.8	48.30	2.40	TGMF 3
TGHN 32-5S	32.0	5.00	5.00	12.0	25.0	24.8	54.00	4.00	TGMF/P 5
TGHN 32-6S	32.0	6.00	6.35	16.0	25.0	24.8	55.70	5.20	TGMF 6

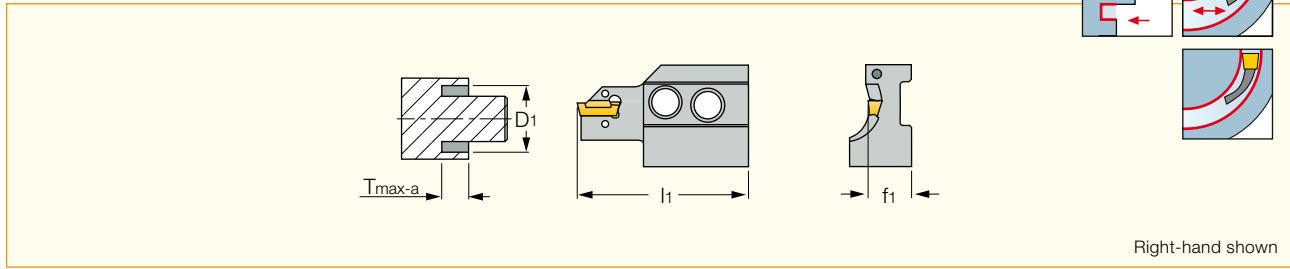
• Use the drilled holes on blade for min. and max. overhang • Grooving depth is limited by the insert

For inserts: TGMF (full radius) • TGMF/P .

For holders, see pages: C#-TBU (17)

HFAER/L-5T, 6T

Adapters for External Facing Along Shafts



Right-hand shown

Designation	W	T _{max-a}	D _{1 min} ⁽¹⁾	D _{1 max} ⁽²⁾	l ₁	f ₁
HFAER/L 70C-5T25	5.00	25.00	70.0	95.0	66.00	12.2
HFAER/L 95C-5T25	5.00	25.00	95.0	130.0	66.00	12.2
HFAER/L 70C-6T28	6.00	28.00	70.0	100.0	69.00	12.3
HFAER/L 100C-6T32	6.00	32.00	100.0	180.0	73.00	12.3
HFAER/L 180C-6T32	6.00	32.00	180.0	400.0	73.00	12.3

• After initial groove, no limitation to widening groove outward from or toward center. • Adapters can be mounted on standard HAR/L, HAPR/L, HAI holders for external machining. • DGN & GRIP inserts can be used only with right-hand adapters, HGPL inserts with left-hand blades.

⁽¹⁾ Minimum penetration diameter ⁽²⁾ Maximum penetration diameter

For inserts: HFPR/L • HFPR/L (full radius) • GRIP • GRIP (full radius) • DGN/DGNC/DGNM-C • DGN/DGNM-J/JS/JT • DGN-W • HGPL .

For holders, see pages: C#-HAD (15) • C#-HAPR/L (16)

Spare Parts

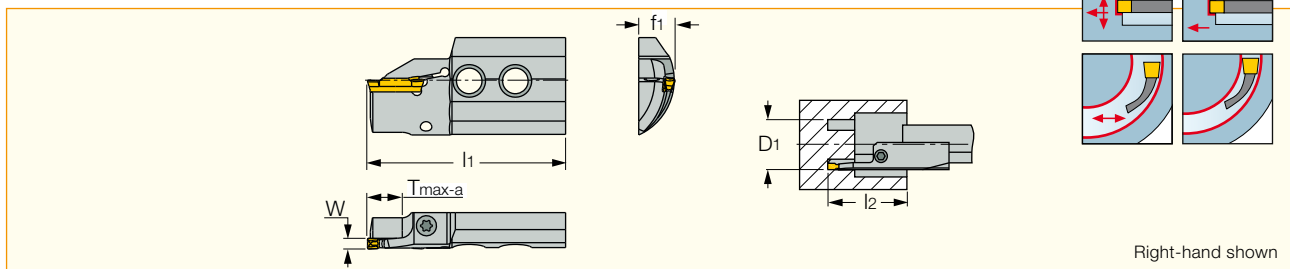


Designation	Extractor
HFAER/L-5T, 6T	EDG 33B*

* Optional, should be ordered separately

HGAIR/L-3

Adapters for Internal Face Grooving and Turning



Right-hand shown

Designation	T _{max-a}	D _{1 min} ⁽¹⁾	D _{1 max} ⁽²⁾	W	l ₁	f ₁	l ₂
HGAIR/L 12-3M	2.00	12.0	500.0	3.00	55.00	10.2	21.0
HGAIR/L 12-3T6	6.00	12.0	15.0	3.00	55.00	10.2	21.0
HGAIR/L 14-3T7	7.00	14.0	17.0	3.00	55.00	10.2	21.0
HGAIR/L 17-3T8	8.00	17.0	21.0	3.00	55.00	10.2	21.0
HGAIR/L 21-3T9	9.00	21.0	25.0	3.00	55.00	10.2	21.0
HGAIR/L 25-3T9	9.00	25.0	34.0	3.00	55.00	10.2	21.0
HGAIR/L 35-3T10	10.00	35.0	45.0	3.00	56.00	10.3	22.0
HGAIR/L 45-3T10	10.00	45.0	65.0	3.00	56.00	10.3	22.0
HGAIR/L 65-3T18	18.00	65.0	115.0	3.00	64.00	11.3	30.0
HGAIR/L 115-3T18	18.00	115.0	400.0	3.00	64.00	11.3	30.0

• HGN & GRIP 3.. inserts can be used only with right-hand adapters, HGPL 3.. inserts with left-hand adapters.

⁽¹⁾ Minimum penetration diameter ⁽²⁾ Maximum penetration diameter

For inserts: GRIP • GRIP (full radius) • HGN-C • HGN-J • HGN-UT • HGPL .

For holders, see pages: C#-HAD (15) • C#-HAPR/L (16)

Spare Parts

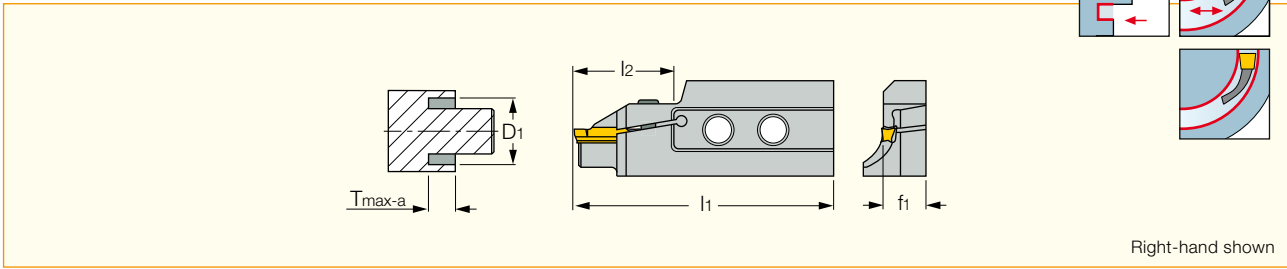


Designation	Screw	Key
HGAIR/L-3	SR 16-236 P	T-15/3

HGAER/L-3

Adapters for External Facing Along Shafts

Quick Change
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Designation	T _{max-a}	W	D _{1 min} ⁽¹⁾	D _{1 max} ⁽²⁾	l ₂	f ₁	l ₁
HGAER/L 12-3M	2.00	3.00	12.0	500.0	21.0	10.2	55.00
HGAER/L 12-3T6	6.00	3.00	12.0	15.0	21.0	10.2	55.00
HGAER/L 14-3T7	7.00	3.00	14.0	17.0	21.0	10.2	55.00
HGAER/L 17-3T8	8.00	3.00	17.0	21.0	21.0	10.2	55.00
HGAER/L 21-3T9	9.00	3.00	21.0	25.0	21.0	10.2	55.00

• GRIP 3... inserts can be used with right-hand adapters only, HGPL 3 with left-hand adapters.

⁽¹⁾ Minimum penetration diameter ⁽²⁾ Maximum penetration diameter

For inserts: GRIP • GRIP (full radius) • HGPL .

For holders, see pages: C#-HAD (15) • C#-HAPR/L (16)

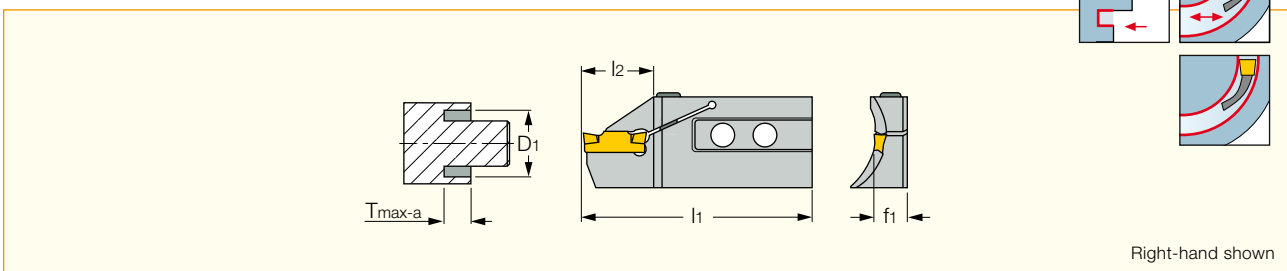
Spare Parts



Designation	Screw	Key
HGAER/L-3	SR 16-236 P	T-15/5

HFAER/L-4

Adapters for External Facing Along Shafts



Designation	T _{max-a}	W	D _{1 min} ⁽¹⁾	D _{1 max} ⁽²⁾	l ₁	l ₂	f ₁
HFAER/L 40-4T20	20.00	4.00	40.0	48.0	68.50	21.0	11.6
HFAER/L 48-4T20	20.00	4.00	48.0	60.0	68.50	21.0	11.6
HFAER/L 60-4T25	25.00	4.00	60.0	75.0	68.50	26.0	11.6
HFAER/L 75-4T25	25.00	4.00	75.0	100.0	68.50	26.0	11.6

• DGN & GRIP inserts can be used only with right-hand adapters, HGPL inserts with left-hand blades.

⁽¹⁾ Minimum penetration diameter ⁽²⁾ Maximum penetration diameter

For inserts: HFPR/L • HFPR/L (full radius) • GRIP • GRIP (full radius) • DGN/DGNC/DGNM-C • DGN/DGNM-JS/JT • HGPL .

For holders, see pages: C#-HAD (15) • C#-HAPR/L (16)

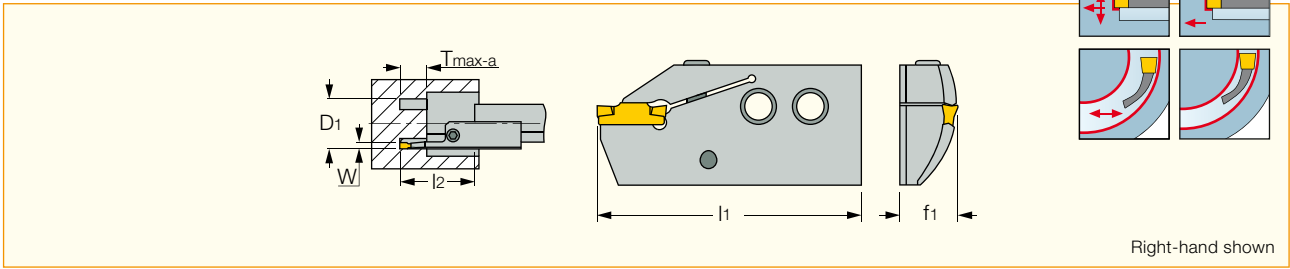
Spare Parts



Designation	Screw	Key
HFAER/L-4T	SR M5X16DIN912 12.9	HW 4.0

HFAIR/L-4

Adapters for Internal Face Grooving and Turning



Designation	T _{max-a}	W	D _{1 min} ⁽¹⁾	D _{1 max} ⁽²⁾	l ₁	f ₁	l ₂
HFAIR/L 34-4T18	18.00	4.00	34.0	40.0	67.00	15.3	33.0
HFAIR/L 40-4T20	20.00	4.00	40.0	48.0	67.00	15.3	33.0
HFAIR/L 48-4T20	20.00	4.00	48.0	60.0	67.00	15.3	33.0
HFAIR/L 60-4T25	25.00	4.00	60.0	75.0	67.00	15.3	33.0

• DGN & GRIP inserts can be used only with right-hand adapters, HGPL inserts with left-hand blades.

⁽¹⁾ Minimum penetration diameter ⁽²⁾ Maximum penetration diameter

For inserts: HFPR/L • HFPR/L (full radius) • GRIP • GRIP (full radius) • DGN/DGNC/DGNM-C • DGN/DGNM-J/JS/JT • HGPL .

For holders, see pages: C#-HAD (15) • C#-HAPR/L (16)

Spare Parts



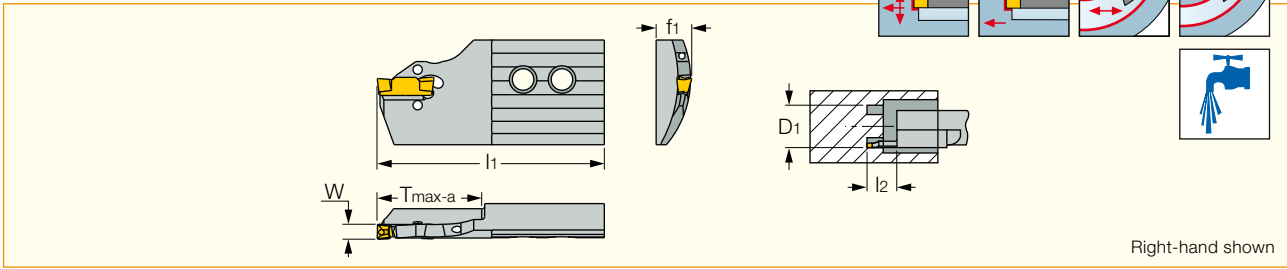
Designation	Screw	Key
HFAIR/L-4	SR M5X16DIN912 12.9	HW 4.0



HFAIR/L-DG

Adapters for Internal Face Grooving and Turning

Quick Change
High Precision
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Right-hand shown

Designation	W	D ₁ min ⁽¹⁾	D ₁ max ⁽²⁾	T _{max-a}	f ₁	l ₂	l ₁
HFAIR/L 75C-4T30DG	4.00	75.0	140.0	30.00	10.9	34.5	68.50
HFAIR/L 140C-4T30DG	4.00	140.0	-	30.00	10.9	34.5	68.50
HFAIR/L 55C-5T25DG	5.00	55.0	70.0	25.00	11.9	32.0	66.00
HFAIR/L 70C-5T25DG	5.00	70.0	95.0	25.00	11.9	32.0	66.00
HFAIR/L 95C-5T35DG	5.00	95.0	130.0	35.00	11.9	39.5	73.50
HFAIR/L 130C-5T38DG	5.00	130.0	180.0	38.00	11.9	42.5	76.50
HFAIR/L 180C-5T38DG	5.00	180.0	-	38.00	11.9	42.5	76.50
HFAIR/L 70C-6T28DG	6.00	70.0	100.0	28.00	12.0	35.0	69.00
HFAIR/L 100C-6T32DG	6.00	100.0	180.0	32.00	12.0	39.0	73.00
HFAIR/L 180C-6T38DG	6.00	180.0	400.0	38.00	12.4	42.5	76.50

• After initial groove, no limitation to widening groove outward or toward center • DGN inserts can be used on right- and left-hand tools, GRIP inserts only on right-hand tools, HFPR/L right-hand inserts on right-hand tools (same for left-hand), and HGPL inserts only on left-hand tools.

⁽¹⁾ Minimum penetration diameter ⁽²⁾ Maximum penetration diameter

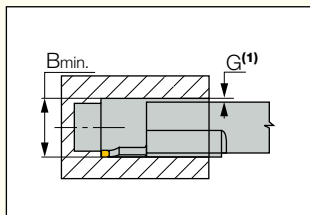
For inserts: HFPR/L • HFPR/L (full radius) • GRIP • GRIP (full radius) • DGN/DGNC/DGNM-C • DGN/DGNM-J/JS/JT • DGN-W • HGPL .

For holders, see pages: C#-HAD (15) • C#-HAPR/L (16)

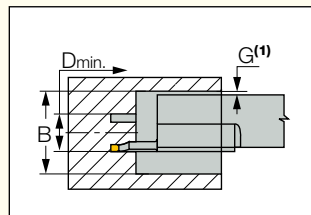
Adapters can be used for internal machining along bore.
Adapters can be mounted on standard HAI boring bars for internal machining and on HAR/L, HAPR/L holders for external machining

Boring, Face Grooving & Face Recessing Capacity

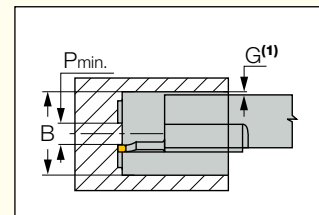
Boring
B Min. = F+G+d/2



Face Grooving
D Min. = 2F-B+2G+d



Face Recessing
P Min. = 2F-B-2W+2G+d



⁽¹⁾ The minimum recommended value for clearance (G) is 0.5 mm.

Spare Parts



Designation	Extractor
HFAIR/L-DG	EDG 33B*

* Optional, should be ordered separately

CAMFIX ISO 26623-1 ROTATING TOOLS

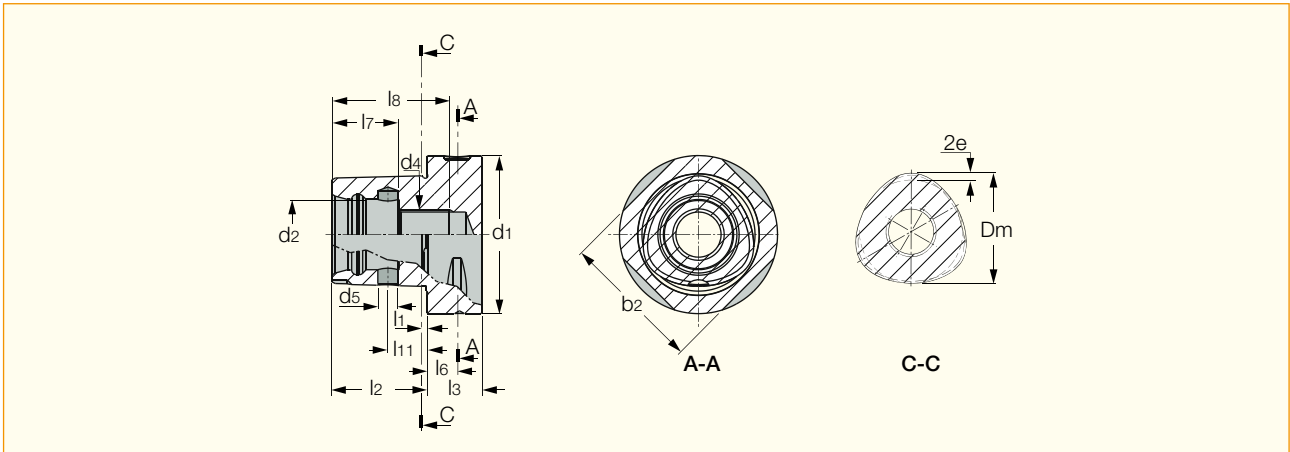


ISCAR Tools and Holders with **CAMFIX** Shanks
C3 C4 C5 C6 C8 (ISO 26623-1)

ISCAR Toolholders with CAMFIX Adaptation for Multitasking and Lathe Machines

Quick Change
 High Precision
 Tools and Holders for
MAXIMUM
 MACHINING PERFORMANCE

Rotating Tools		
<p>Milling Cutters</p>  <p>H490 ANKD...C6</p>  <p>T490 ELN...C6</p>  <p>H490 E90AX...C6</p>  <p>T490 LNKD...C6</p>	<p>ITSBORE Adapters for the Boring System C4/C5/C6/C8 MB...</p>  	
	<p>CLICKFIT C5/C6 CF4</p>  	
	<p>SHRINKIN C4/C5/C6 SRKIN...</p>  	
	<p>ER Collets C3/C4/C5/C6/C8 ER...</p>  	
	<p>MAXIN C5/C6/C8 MAXIN...</p>  	
	<p>Endmill Holders C3/C4/C5/C6/C8 EM...</p>  	
	<p>Shell Mill Holders C3/C4/C5/C6/C8 SEM...</p>  	
	<p>FINEFIT ADJ C5/C6...</p>  	
	<p>FLEXFIT C4/C5/C6 ODP..</p>  	

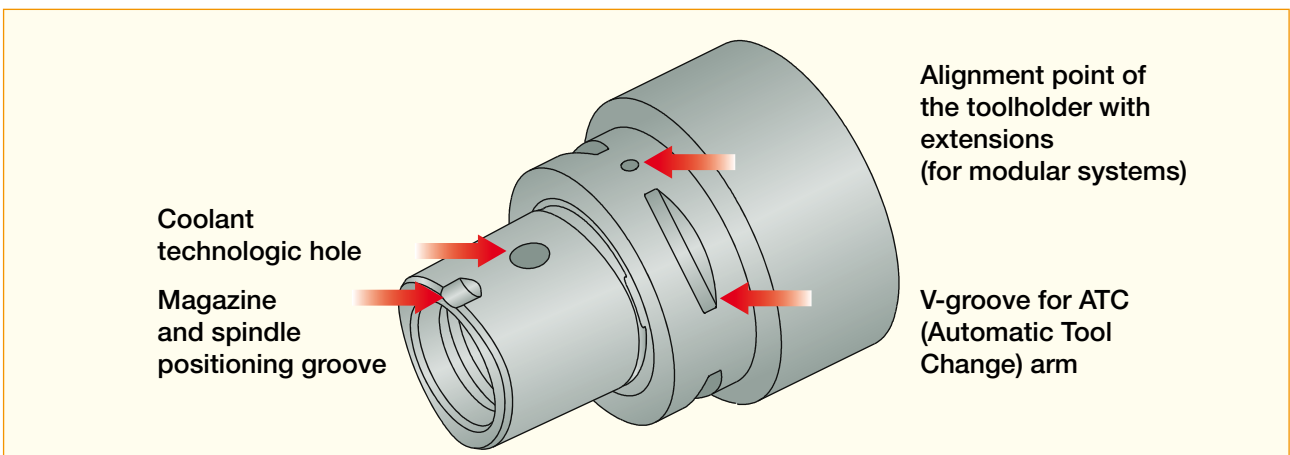


CAMFIX	b ₂	d ₁ ±0.1	d ₂	d ₄	d ₅ ±0.1	D _m	e	l ₁	l ₂ ±0.1	l ₃ min	l ₆ ±0.15	l ₇ ±0.15	l ₈ min	l ₁₁ ±0.1
C3	28,3	32	15	M12x1.5	3,6	22	0,7	2,5	19	15	6	13	25	8
C4	35,3	40	18	M14x1.5	4,6	28	0,9	2,5	24	20	8	15	30	11,5
C5	44,4	50	21	M16x1.5	6,1	35	1,12	3	30	20	10	20	37	14
C6	55,8	63	28	M20x2	8,1	44	1,4	3	38	22	12	27	47	15,5
C8	71,1	80	32	M20x2	9,1	55	2	3	48	30	12	28	48	25
CBX	88,7	100	32	M20x2	9,1	55	2	3	48	32	16	28	48	25
C10	88,3	100	43	M24x2	12	72	2,8	3	60	36	16	40	70	26,5



Standard Quick Change Shank Features

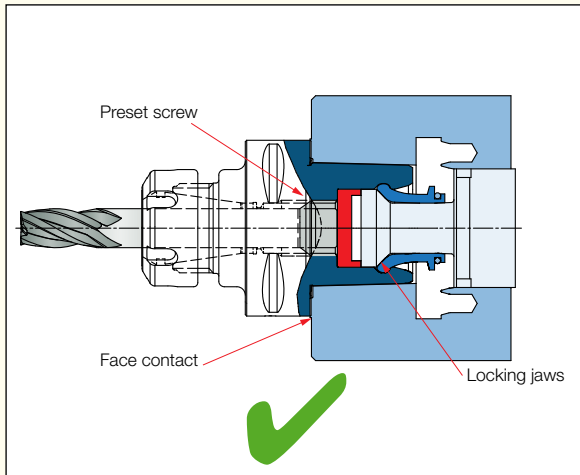
- **Symmetrical design:** Due to the symmetrical design, the torque load is distributed on the polygon, providing a self-centering effect.
- **Rigidity:** The CAMFIX clamping mechanism is extremely rigid against bending forces.
- **Accuracy:** The taper and face contact ensure high repeatability within 2 microns, when operated with an automatic tool changer.



CAMFIX Chucking Instructions

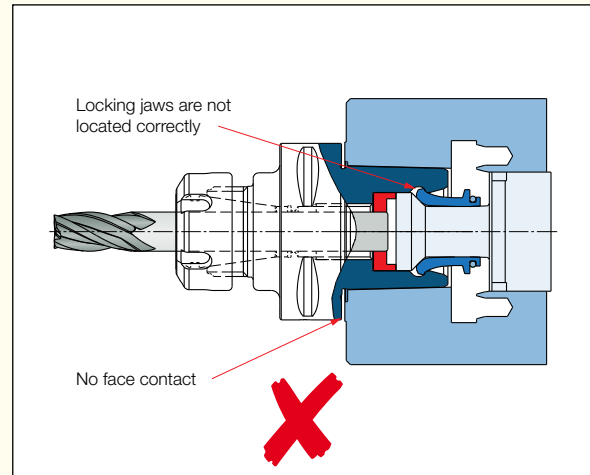
Please be careful when clamping cylindrical shank cutting tools into CAMFIX holders such as ER collet chucks or EM holders. In cases when the

diameter of the shank is smaller than the CAMFIX through hole, it may penetrate into the drawbar mechanism area and prevent proper clamping.



Correct clamping

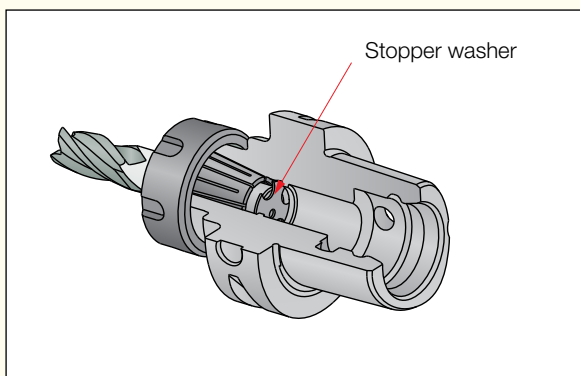
Use a preset screw to prevent the cutter shank from entering into the clamping mechanism zone, so the drawbar locking jaws can function correctly.



Wrong clamping

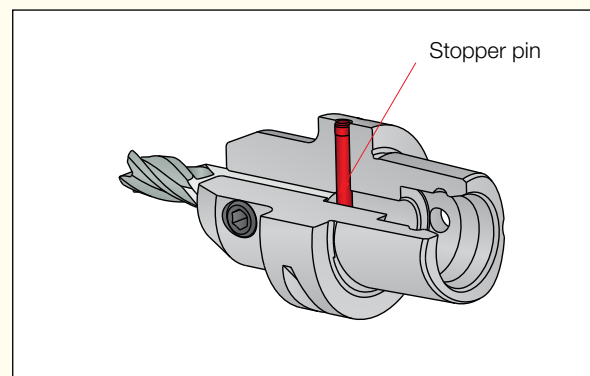
The cutter shank enters into the locking mechanism zone, preventing the drawbar locking jaws to reach their correct clamping position.

In order to prevent too deep insertion of the cutting tools, the short length ER16, 20, 25, 32, 40 collet chucks and EM 6-50 mm endmill holders are equipped with permanent stoppers.



ER chucks

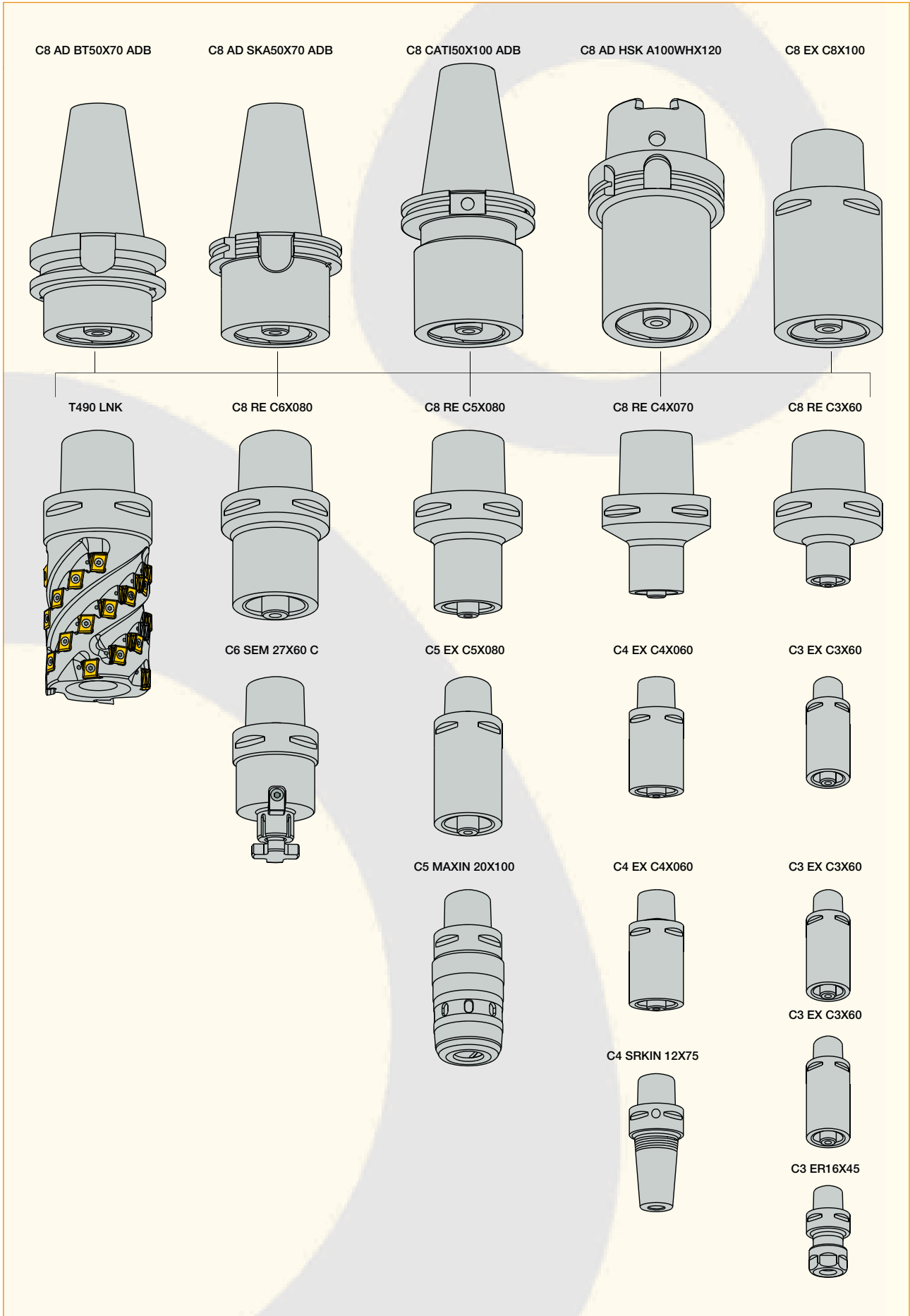
A special washer is installed as a permanent stopper.



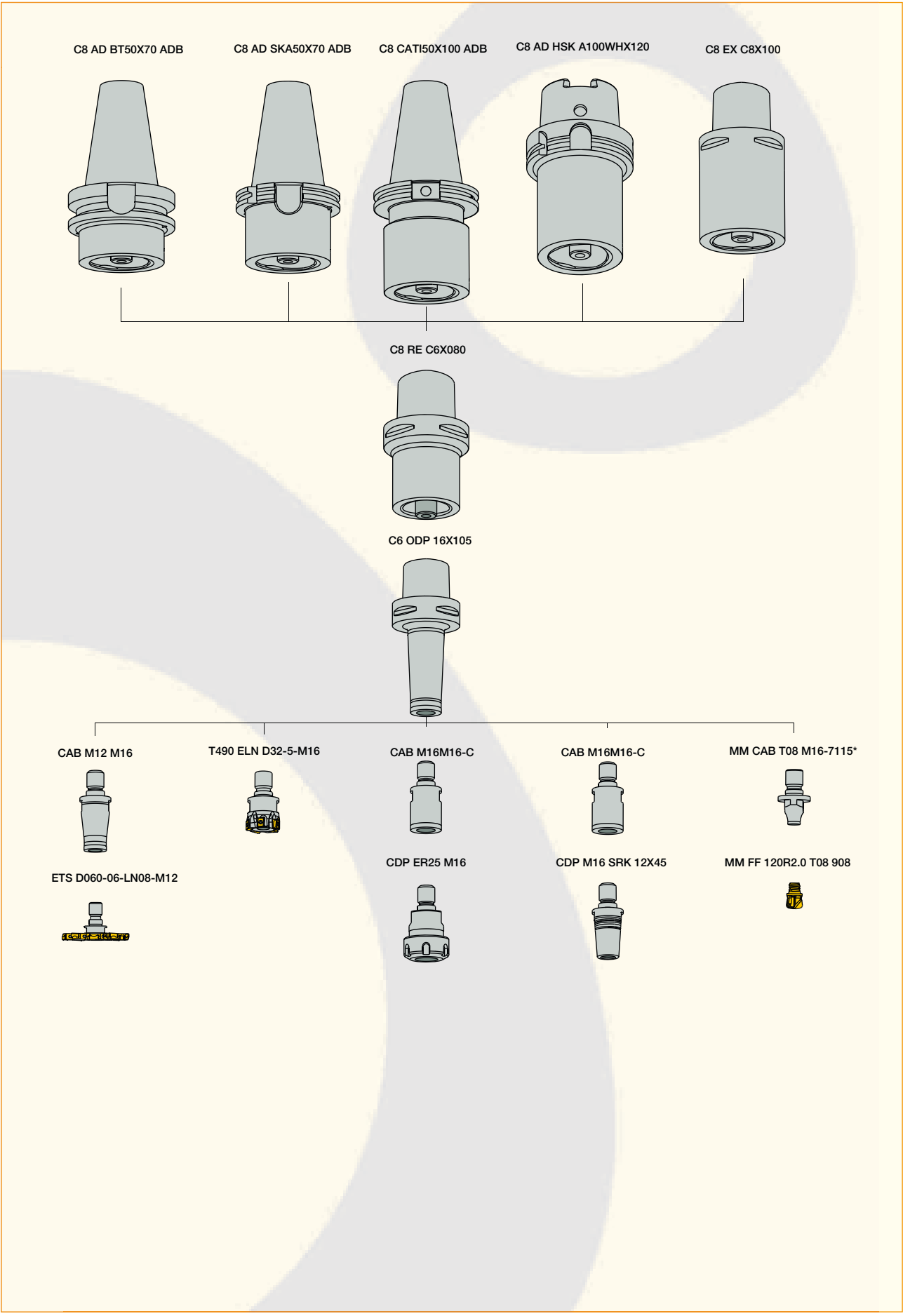
EM holders

A special pin is installed as a permanent stopper.

CAMFIX ROTATING ADAPTATION SYSTEM

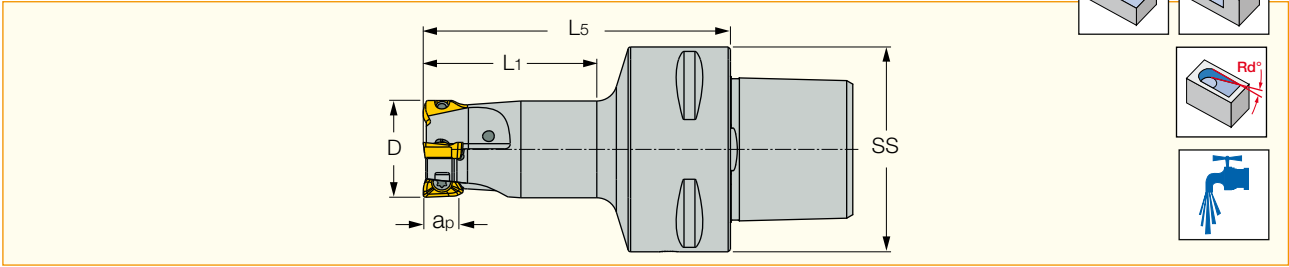


Quick Change
High Precision
Tools and Holders for
MAXIMUM
MACHINING PERFORMANCE



HM390 ETC-C#-07

90° Endmills with CAMFIX Shanks, Carrying HM390 TCKT 0703 Triangular Inserts



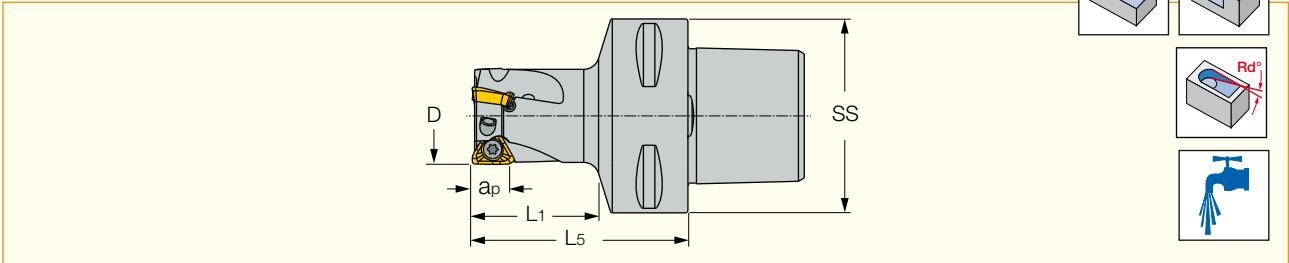
Designation	D	ap	L5	SS	Z	Rd°
HM390 ETC D16-2-C3-07	16.00	5.00	45.00	32	2	1.9
HM390 ETC D20-3-C4-07	20.00	5.00	60.00	40	3	1.4

• Insert clamping screw must be lubricated every indexing. • Tightening torque 0.9 Nxm

For inserts: HM390 TCKT 0703, refer to ISCAR MILLING TOOLS catalog

HM390 ETP-C#-10

90° Endmills Carrying HM390 TPKT 1003 Triangular Inserts with 3 Helical Cutting Edges



Designation	D	ap	Z	L1	L5	SS	Rd°
HM390 ETP D25-3-C5-10	25.00	8.00	3	28.7	55.60	50	2.9

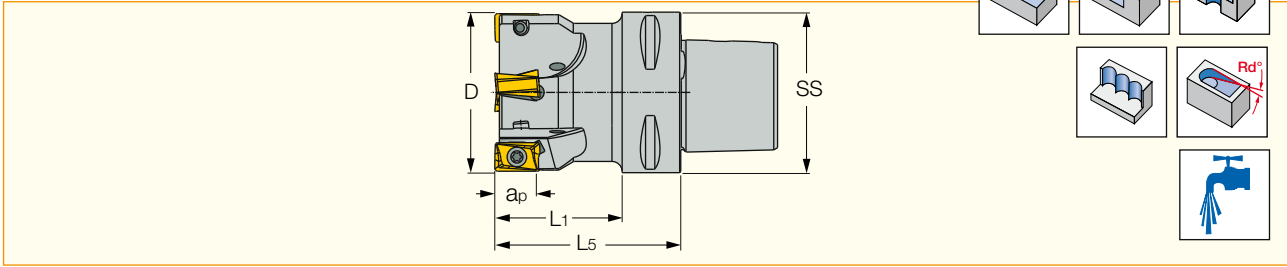
For inserts: HM390 TPKT 1003, refer to ISCAR MILLING TOOLS catalog

HELIDO • CAMFIX

490 LINE

H490 E90AX-C#-17

90° Endmills with CAMFIX Shanks Carrying H490 ANKX 17... Double-Sided Rectangular Inserts with 4 Helical Cutting Edges



Designation	D	a _p	Z	L ₁	L ₅	SS	R _d ^{°(1)}	Kg
H490 E90AX D63-4-17-L73C6	63.00	16.30	4	50.0	73.00	63	2.0	1.67
H490 E90AX D80-5-17-L73C6	80.00	16.30	5	50.0	73.00	63	1.5	2.01

⁽¹⁾ Rampdown angle is valid only when H490 ANKX1706R15T-FF insert is used (in that case tool diameter is 1.5 mm larger).

For inserts: H490 ANKX 17, refer to ISCAR MILLING TOOLS catalog

Spare Parts



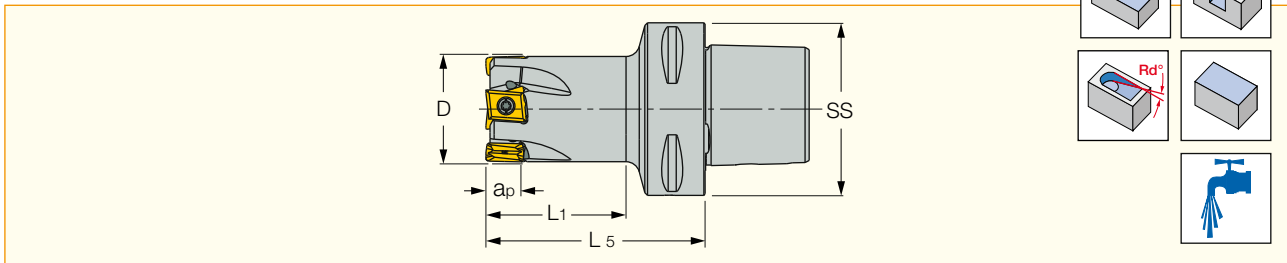
Designation	Screw	Torx Blade	T-Handle
H490 E90AX-C#-17	SR 14-591	BLD T20/M7	SW6-T

HELITANG • CAMFIX

T490 LINE

T490 ELN-C#-13

90° Endmills with CAMFIX Shanks Carrying Tangentially Clamped Inserts with 4 Helical, 12.5 mm Long Cutting Edges



Designation	D	a _p	Z	L ₁	L ₅	SS	R _d ^{°(1)}	Kg
T490 ELN D40-4-L80C6-R-13	40.00	12.50	4	51.0	80.00	63	2.0	0.12

⁽¹⁾ Only when T490 LNHT 1306 PNTR-RD insert is used

For inserts: T490 LNMT 13, refer to ISCAR MILLING TOOLS catalog

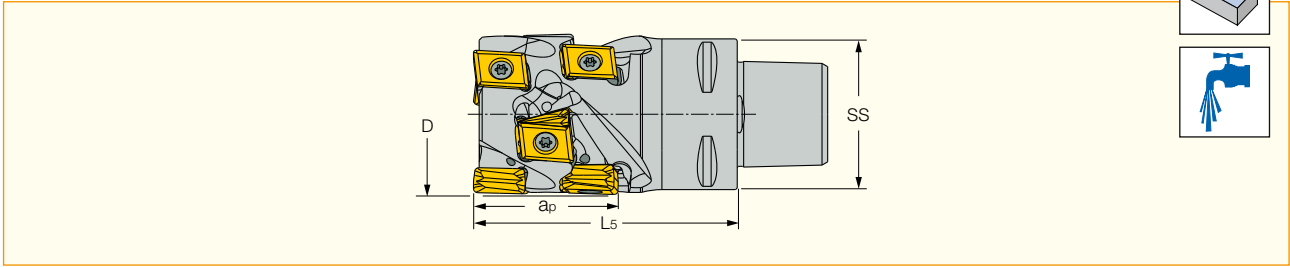
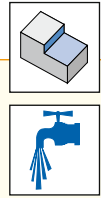
Spare Parts



Designation	Screw	Torx Blade	T-Handle
T490 ELN-C#-13	SR 34-535-SN	BLD T15/S7	SW6-T-SH

T490 LNK-C#-13

Extended Flute Endmills with CAMFIX Shanks, Carrying T490 LNMT/HT 13...
Tangentially Clamped Inserts



Designation	D	a _p	Flute	Z	L ₁	L ₅	SS	Kg
T490 LNKD40-36-2-L90C6-13	40.00	36.00	2	6	64.0	90.00	63	1.34
T490 LNKD50-47-3L100C6-13	50.00	47.00	3	12	76.0	100.00	63	1.55

For inserts: T490 LNMT/HT 13... refer to ISCAR MILLING TOOLS catalog

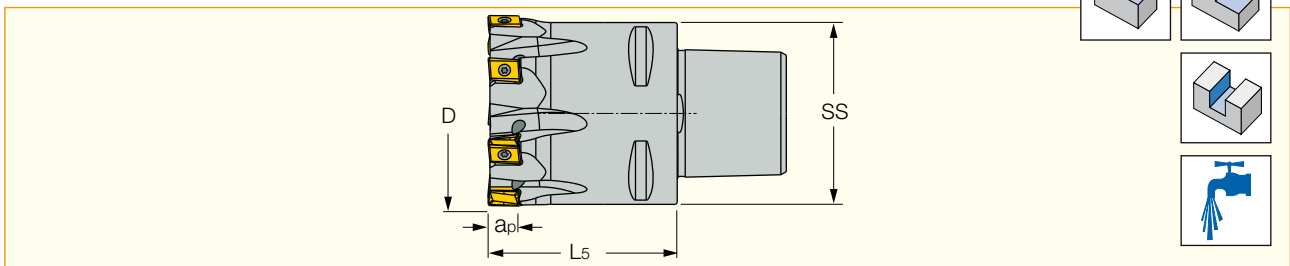
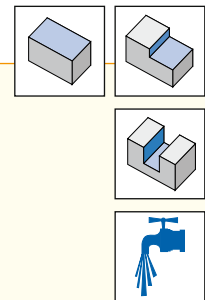
Spare Parts



Designation	Screw	Torx Blade	T-Handle
T490 LNK-C#-13	SR 34-535-SN	BLD T15/S7	SW6-T-SH

T490 FLN-C#-08

90° Face Mills with CAMFIX Shanks Carrying Tangentially Clamped Inserts



Designation	D	a _p	L ₅	SS	Z
T490 FLN D44-06-C4-08	44.00	8.00	45.00	40	6
T490 FLN D54-07-C5-08	54.00	8.00	52.00	50	7

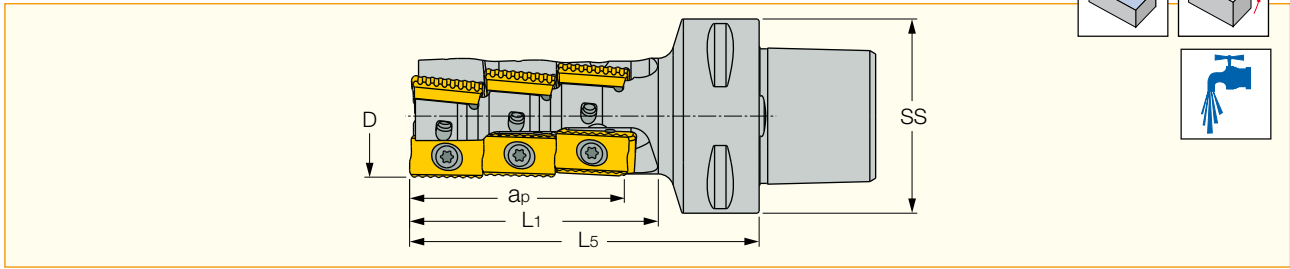
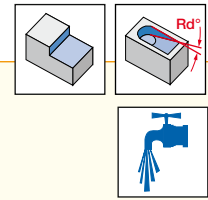
For inserts, T490 LNMT/LNHT 0804, refer to ISCAR MILLING TOOLS catalog

MILLSHRED • CAMFIX

P290 LINE

P290 ACK-C#-18

Extended Flute Endmills with CAMFIX Shanks, Carrying 18 mm Long Edged Inserts



Designation	D	a _p	Flute	Z	L ₁	L ₅	SS	R _d °
P290 ACK D32-3-53-C5-18 ⁽¹⁾	32.00	52.00	3	9	64.0	90.00	50	2.0
P290 ACK D40-3-87-C6-18	40.00	87.00	3	15	106.0	134.60	63	1.5
P290 ACK D44-3-53-C4-18	44.00	53.00	3	9	-	91.00	40	1.2
P290 ACK D63-5-87-C8-18	63.00	87.00	5	25	104.0	140.00	80	0.8

• Note: recommended ae up to 0.2xD

⁽¹⁾ To be used only with P290 ACCT 1806PDR-HL/TL straight-edged inserts

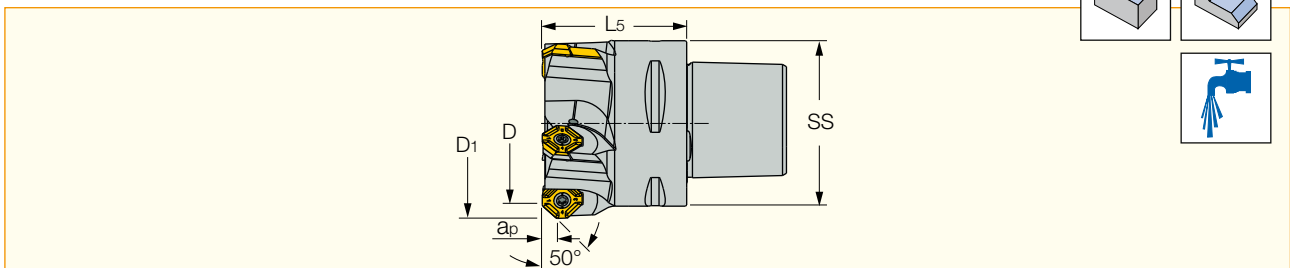
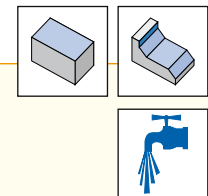
For inserts: P290 ACCT 1806 • P290 ACKT 1806, refer to ISCAR MILLING TOOLS catalog

DOVE IQMILL • CAMFIX

845 LINE

IQ845 FSY-C#-R07

50° Face Mills, Carrying Square Inserts with 8 Cutting Edges

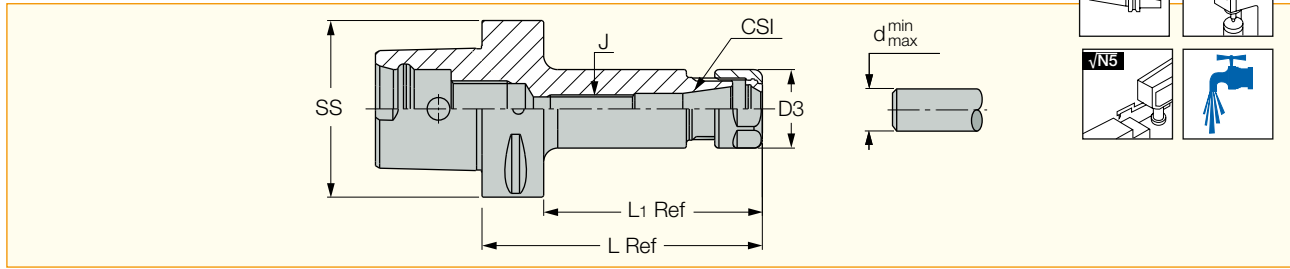


Designation	D	D ₁	Z	a _p	L ₅	SS
IQ845 FSY D063-05-C6-R07	63.00	72.4	5	4.60	55.00	63

For inserts: IQ845 SYHU-07, refer to ISCAR MILLING TOOLS catalog

C#-ER

ER Collet Chucks (DIN 6499) with CAMFIX (ISO 26623-1) Exchangeable, Tapered Shanks



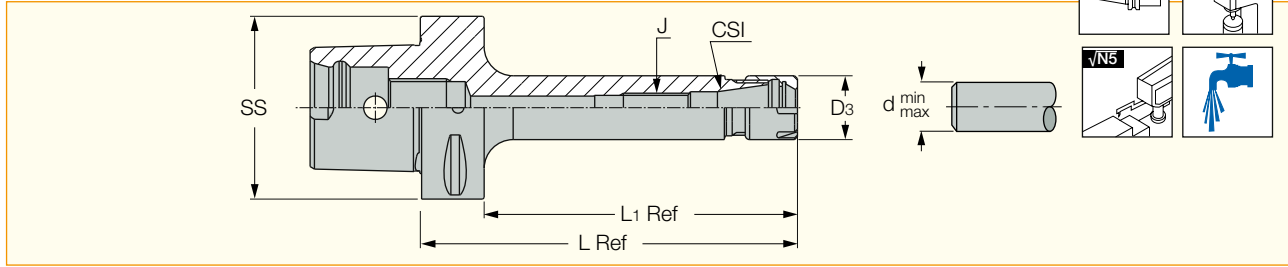
Designation	SS	CSI	d _{min}	d _{max}	D ₃	L	L ₁	J	Kg
C3 ER16X45	32	ER16	1.0	10.0	28.00	45.00	25.0	M10	0.00
C3 ER20X45	32	ER20	1.0	13.0	34.00	45.00	25.0	-	0.00
C4 ER16X 70	40	ER16	1.0	10.0	28.00	70.00	50.0	M10	0.38
C4 ER20X 35 ⁽¹⁾	40	ER20	1.0	13.0	34.00	35.00	27.0	-	0.16
C4 ER20X 52	40	ER20	1.0	13.0	34.00	52.00	32.0	-	0.28
C4 ER25X 38 ⁽¹⁾	40	ER25	1.0	16.0	42.00	38.00	30.0	-	0.18
C4 ER25X 52	40	ER25	1.0	16.0	42.00	52.00	32.0	-	0.29
C4 ER32X 54	40	ER32	2.0	20.0	50.00	54.00	34.0	-	0.48
C5 ER16X100	50	ER16	1.0	10.0	28.00	100.00	80.0	M10	0.78
C5 ER16X130	50	ER16	1.0	10.0	28.00	130.00	110.0	M10	0.79
C5 ER20X055	50	ER20	1.0	13.0	34.00	55.00	35.0	-	0.50
C5 ER20X100	50	ER20	1.0	13.0	34.00	100.00	80.0	M12	0.79
C5 ER20X130	50	ER20	1.0	13.0	34.00	130.00	110.0	M12	0.97
C5 ER25X055	50	ER25	1.0	16.0	42.00	55.00	35.0	-	0.52
C5 ER25X100	50	ER25	1.0	16.0	42.00	100.00	80.0	M16	0.93
C5 ER32X057	50	ER32	2.0	20.0	50.00	57.00	36.0	-	0.50
C5 ER32X100	50	ER32	2.0	20.0	50.00	100.00	80.0	M22X1.5	1.05
C6 ER16X100	63	ER16	1.0	10.0	28.00	100.00	78.0	M10	0.99
C6 ER16X130	63	ER16	1.0	10.0	28.00	130.00	108.0	M10	1.12
C6 ER16X160	63	ER16	1.0	10.0	28.00	160.00	138.0	M10	1.24
C6 ER20X060	63	ER20	1.0	13.0	34.00	60.00	38.0	-	0.84
C6 ER20X100	63	ER20	1.0	13.0	34.00	100.00	78.0	M12	1.09
C6 ER20X130	63	ER20	1.0	13.0	34.00	130.00	108.0	M12	1.26
C6 ER20X160	63	ER20	1.0	13.0	34.00	160.00	138.0	M12	1.47
C6 ER25X060	63	ER25	1.0	16.0	42.00	60.00	38.0	-	0.86
C6 ER25X100	63	ER25	1.0	16.0	42.00	100.00	78.0	M16	1.39
C6 ER25X130	63	ER25	1.0	16.0	42.00	130.00	108.0	M16	1.68
C6 ER25X160	63	ER25	1.0	16.0	42.00	160.00	138.0	M16	1.83
C6 ER32X060	63	ER32	2.0	20.0	50.00	60.00	36.0	-	1.06
C6 ER32X100	63	ER32	2.0	20.0	50.00	100.00	78.0	M22X1.5	1.38
C6 ER32X130	63	ER32	2.0	20.0	50.00	130.00	108.0	M22X1.5	1.75
C6 ER32X160	63	ER32	2.0	20.0	50.00	160.00	138.0	M22X1.5	2.21
C6 ER40X065	63	ER40	3.0	26.0	63.00	65.00	37.0	-	0.93
C6 ER40X100	63	ER40	3.0	26.0	63.00	100.00	78.0	M28X1.5	1.59
C6 ER40X130	63	ER40	3.0	26.0	63.00	130.00	108.0	M28X1.5	2.18
C8 ER32X 70	80	ER32	2.0	20.0	50.00	70.00	40.0	-	1.81
C8 ER32X100	80	ER32	2.0	20.0	50.00	100.00	70.0	M22x1.5	2.20
C8 ER32X160	80	ER32	2.0	20.0	50.00	160.00	130.0	M22x1.5	3.08
C8 ER40X 70	80	ER40	3.0	26.0	63.00	70.00	40.0	-	1.82
C8 ER40X100	80	ER40	3.0	26.0	63.00	100.00	70.0	M28x1.5	2.46
C8 ER40X160	80	ER40	3.0	26.0	63.00	160.00	130.0	M28x1.5	3.80

⁽¹⁾ Without V grooves, for manual use only.

For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

C#-ER-M

DIN 6499 ER Long Mini Collet Chucks with CAMFIX (ISO 26623-1 standard)
Exchangeable, Tapered Shanks



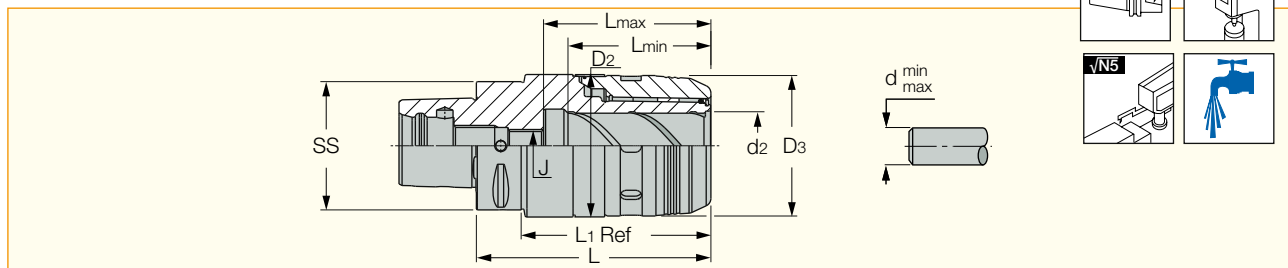
Designation	SS	CSI	d _{min}	d _{max}	D ₃	L	L ₁	J	Kg
C4 ER16X 70 M	40	ER16	0.5	10.0	22.00	70.00	50.0	M10	0.32
C5 ER16X100 M	50	ER16	0.5	10.0	22.00	100.00	80.0	M10	0.57
C5 ER16X130 M	50	ER16	0.5	10.0	22.00	130.00	120.0	M10	0.67
C6 ER16X100 M	63	ER16	0.5	10.0	22.00	100.00	78.0	M10	0.90
C6 ER16X130 M	63	ER16	0.5	10.0	22.00	130.00	108.0	M10	0.97
C6 ER16X160 M	63	ER16	0.5	10.0	22.00	160.00	138.0	M10	1.07

For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

MAXIN • CAMFIX

C#-MAXIN

MAXIN Power Chuck with CAMFIX (ISO 26623-1 standard) Exchangeable Shank



Designation	SS	d _{min} ⁽¹⁾	d ₂	D ₃	D ₂	L	L ₁	L _{min}	L _{max}	J	Kg
C5 MAXIN 20X100	50	6.0	20.00	51.00	53.00	96.00	75.0	55.0	67.0	M16	0.87
C6 MAXIN 20X95	63	6.0	20.00	51.00	53.00	96.00	73.0	55.0	67.0	M16	1.10
C6 MAXIN 32X115	63	6.0	32.00	69.00	70.00	115.00	93.0	70.0	82.0	M16	2.88
C8 MAXIN 20X95	80	6.0	20.00	51.00	53.00	96.00	65.0	55.0	67.0	M16	2.00
C8 MAXIN 32X115	80	6.0	32.00	69.00	70.00	115.00	85.0	70.0	82.0	M16	2.59

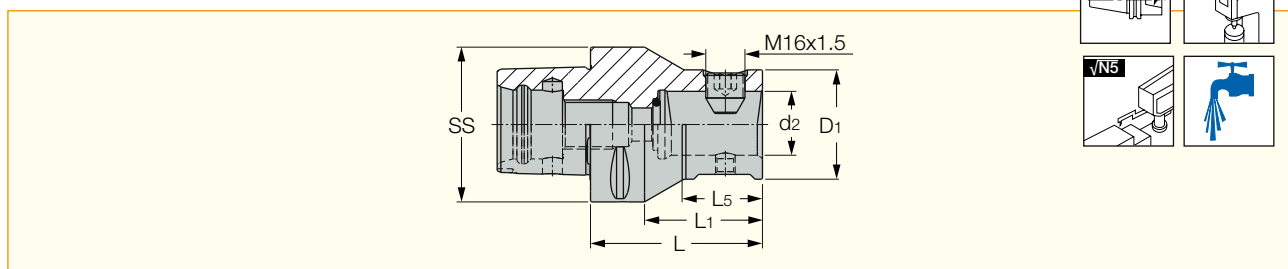
⁽¹⁾ By using a reduction collet

For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

CLICKFIT • CAMFIX

C#-CF4 (CLICKFIT)

CAMFIX (ISO 26623-1 Standard) Exchangeable, Tapered Shank to CLICKFIT Adapter



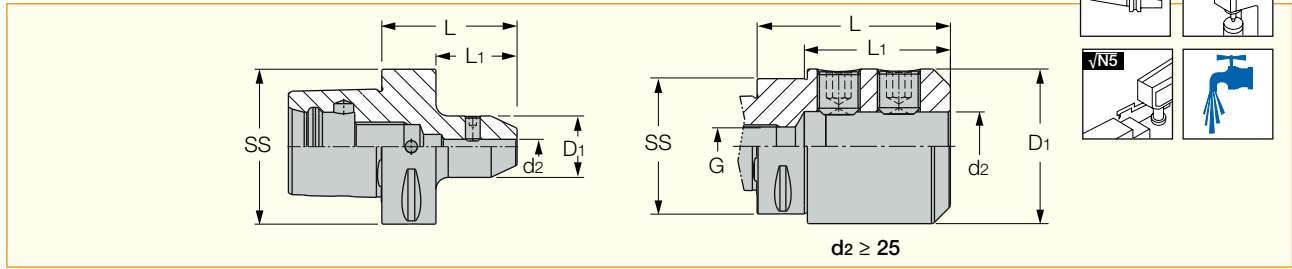
Designation	SS	d ₂	L	L ₁	L ₅	D ₁	G	Kg
C5 CF4-S	50	25.00	60.00	40.0	35.00	44.5	M16	0.13
C6 CF4-S	63	25.00	70.00	48.0	32.00	44.5	M20	1.24

For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

Quick Change
High Precision
Tools and Holders for
MAXIMUM
MACHINING PERFORMANCE

C#-EM

Weldon Endmill Holders (DIN1835 Form B) with CAMFIX (ISO 26623-1)
Exchangeable, Tapered Shanks

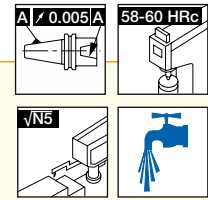


Designation	SS	d ₂	D ₁	L	L ₁	G	Kg
C3 EM 6X45	32	6.00	25.0	45.00	25.0	M12	0.00
C3 EM 8X45	32	8.00	28.0	45.00	25.0	M12	0.00
C3 EM10X50	32	10.00	35.0	50.00	30.0	M12	0.00
C3 EM12X55	32	12.00	42.0	55.00	35.0	M12	0.00
C4 EM06X50	40	6.00	25.0	50.00	30.0	M14	0.34
C4 EM08X50	40	8.00	28.0	50.00	30.0	M14	0.36
C4 EM10X50	40	10.00	35.0	50.00	30.0	M14	0.42
C4 EM12X55	40	12.00	42.0	55.00	35.0	M14	0.54
C4 EM14X55	40	14.00	44.0	55.00	35.0	M14	0.57
C4 EM16X60	40	16.00	48.0	60.00	40.0	M14	0.67
C5 EM06X50	50	6.00	25.0	50.00	30.0	M16	0.52
C5 EM08X50	50	8.00	28.0	50.00	30.0	M16	0.54
C5 EM10X55	50	10.00	35.0	55.00	35.0	M16	0.69
C5 EM12X60	50	12.00	42.0	60.00	40.0	M16	0.83
C5 EM14X60	50	14.00	44.0	60.00	40.0	M16	0.98
C5 EM16X60	50	16.00	48.0	60.00	40.0	M16	0.85
C5 EM18X60	50	18.00	50.0	60.00	40.0	M16	0.95
C5 EM20X60	50	20.00	52.0	60.00	40.0	M16	0.90
C5 EM25X85	50	25.00	65.0	85.00	65.0	M16	1.66
C6 EM 6X55	63	6.00	25.0	55.00	33.0	M20	0.86
C6 EM 8X55	63	8.00	28.0	55.00	33.0	M20	0.89
C6 EM10X60	63	10.00	35.0	60.00	38.0	M20	0.97
C6 EM12X60	63	12.00	42.0	60.00	38.0	M20	1.08
C6 EM14X60	63	14.00	44.0	60.00	38.0	M20	1.11
C6 EM16X65	63	16.00	48.0	65.00	43.0	M20	1.24
C6 EM18X65	63	18.00	50.0	65.00	43.0	M20	1.20
C6 EM20X65	63	20.00	52.0	65.00	43.0	M20	1.26
C6 EM25X80	63	25.00	65.0	80.00	58.0	M20	1.83
C6 EM32X90	63	32.00	72.0	90.00	68.0	M20	2.28
C6 EM40X100	63	40.00	90.0	100.00	78.0	M20	3.43
C8 EM06X70	80	6.00	25.0	70.00	40.0	M20	1.86
C8 EM08X70	80	8.00	28.0	70.00	40.0	M20	1.90
C8 EM10X70	80	10.00	35.0	70.00	40.0	M20	2.00
C8 EM12X70	80	12.00	42.0	70.00	40.0	M20	2.20
C8 EM14X70	80	14.00	44.0	70.00	40.0	M20	2.10
C8 EM16X70	80	16.00	48.0	70.00	40.0	M20	2.16
C8 EM18X70	80	18.00	50.0	70.00	40.0	M20	2.16
C8 EM20X70	80	20.00	52.0	70.00	40.0	M20	2.18
C8 EM25X90	80	25.00	65.0	90.00	60.0	M20	2.84
C8 EM32X95	80	32.00	72.0	95.00	65.0	M20	3.16
C8 EM40X110	80	40.00	90.0	110.00	80.0	M20	5.12
C8 EM50X120	80	50.00	98.0	120.00	90.0	M20	5.30

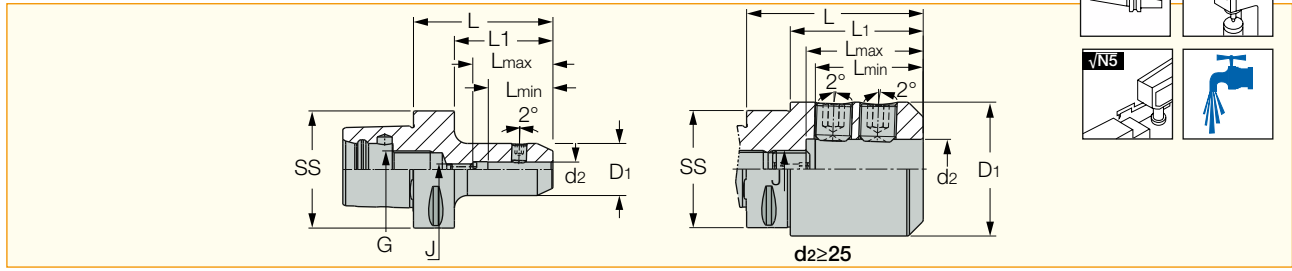
For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

C#-EM-E

Drill Holders (DIN1835 Form E) with CAMFIX (ISO 26623-1)
Exchangeable, Tapered Shanks



Quick Change
High Precision
Tools and Holders for
MAXIMUM
MACHINING PERFORMANCE



Designation	SS	d ₂	D ₁	L	L _{min}	L _{max}	L ₁	G	J	Kg
C3 EM 6X70 E	32	6.00	25.0	70.00	30.0	35.0	50.0	M12	M5	0.00
C3 EM 8X70 E	32	8.00	28.0	70.00	35.0	43.0	50.0	M12	M6	0.00
C3 EM 10X70 E	32	10.00	35.0	70.00	39.0	45.0	50.0	M12	M8	0.00
C3 EM 12X75 E	32	12.00	42.0	75.00	44.0	49.0	55.0	M12	M10	0.00
C4 EM06X70 E	40	6.00	25.0	70.00	30.0	35.0	50.0	M14	M5	0.42
C4 EM08X70 E	40	8.00	28.0	70.00	35.0	43.0	50.0	M14	M6	0.46
C4 EM10X70 E	40	10.00	35.0	70.00	39.0	45.0	50.0	M14	M8	0.57
C4 EM12X75 E	40	12.00	42.0	75.00	44.0	49.0	55.0	M14	M10	0.75
C4 EM14X75 E	40	14.00	44.0	75.00	44.0	49.0	55.0	M14	M10	0.79
C5 EM06X70 E	50	6.00	25.0	70.00	30.0	35.0	50.0	M16	M5	0.60
C5 EM08X70 E	50	8.00	28.0	70.00	35.0	43.0	50.0	M16	M6	0.64
C5 EM10X70 E	50	10.00	35.0	70.00	39.0	45.0	50.0	M16	M8	0.75
C5 EM12X75 E	50	12.00	42.0	75.00	44.0	49.0	55.0	M16	M10	1.01
C5 EM14X75 E	50	14.00	44.0	75.00	44.0	49.0	55.0	M16	M10	0.97
C5 EM16X80 E	50	16.00	48.0	80.00	47.0	52.0	60.0	M16	M12	1.21
C5 EM18X80 E	50	18.00	50.0	80.00	47.0	52.0	60.0	M16	M12	1.18
C5 EM20X85 E	50	20.00	52.0	85.00	49.0	55.0	65.0	M16	M16	1.29
C6 EM 6X75 E	63	6.00	25.0	75.00	30.0	36.0	53.0	M20	M5	0.93
C6 EM 8X75 E	63	8.00	28.0	75.00	35.0	43.0	53.0	M20	M6	1.00
C6 EM10X75 E	63	10.00	35.0	75.00	39.0	46.0	53.0	M20	M8	2.50
C6 EM12X80 E	63	12.00	42.0	80.00	44.0	49.0	58.0	M20	M10	1.61
C6 EM14X80 E	63	14.00	44.0	80.00	44.0	49.0	58.0	M20	M10	1.34
C6 EM16X85 E	63	16.00	48.0	85.00	47.0	52.0	63.0	M20	M12	1.49
C6 EM18X85 E	63	18.00	50.0	85.00	47.0	52.0	63.0	M20	M12	1.63
C6 EM20X85 E	63	20.00	52.0	85.00	49.0	55.0	63.0	M20	M16	1.57
C6 EM25X90 E	63	25.00	65.0	90.00	54.0	60.0	68.0	M20	M20	2.10
C6 EM32X95 E	63	32.00	72.0	95.00	58.0	63.0	73.0	M20	M20	2.50
C8 EM06X65E	80	6.00	25.0	65.00	30.0	36.0	35.0	M20	M5	1.88
C8 EM08X65E	80	8.00	28.0	65.00	35.0	43.0	35.0	M20	M6	1.90
C8 EM10X65E	80	10.00	35.0	65.00	39.0	46.0	35.0	M20	M8	1.96
C8 EM12X70E	80	12.00	42.0	70.00	44.0	49.0	40.0	M20	M10	2.10
C8 EM14X70E	80	14.00	44.0	70.00	44.0	49.0	40.0	M20	M10	2.12
C8 EM16X75E	80	16.00	48.0	75.00	47.0	52.0	45.0	M20	M12	2.24
C8 EM18X75E	80	18.00	50.0	75.00	47.0	52.0	45.0	M20	M12	2.26
C8 EM20X80E	80	20.00	52.0	80.00	49.0	57.0	50.0	M20	M16	2.36
C8 EM25X90E	80	25.00	65.0	90.00	54.0	60.0	60.0	M20	M20	2.89
C8 EM32X95E	80	32.00	72.0	95.00	58.0	64.0	65.0	M20	M20	3.24

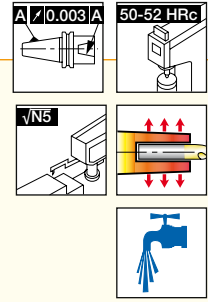
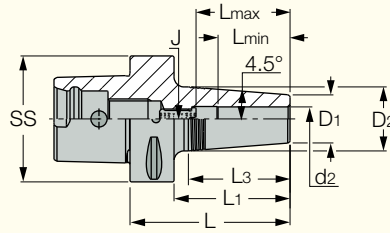
• The adjustment screw has an internal coolant hole.

For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

SHRINKIN • CAMFIX

C#-SRKIN

Thermal Shrink Chucks with Integral CAMFIX ISO 26623-1 Tapered Shanks



Designation	SS	d ₂	D ₁	D ₂	L	L ₁	L ₃	L _{min}	L _{max}	J	Key ⁽¹⁾	Kg
C4 SRKIN 6X75	40	6.00	21.0	27.00	75.00	55.0	38.10	25.0	36.0	M5	2.50	0.45
C4 SRKIN 8X75	40	8.00	21.0	27.00	75.00	55.0	38.10	25.0	36.0	M6	3.00	0.46
C4 SRKIN 10X75	40	10.00	24.0	32.00	75.00	55.0	50.80	31.0	42.0	M8	4.00	0.49
C4 SRKIN 12X75	40	12.00	24.0	32.00	75.00	55.0	50.80	36.0	47.0	M10	5.00	0.48
C4 SRKIN 14X80	40	14.00	27.0	34.00	80.00	60.0	44.50	36.0	47.0	M10	5.00	0.55
C4 SRKIN 16X80	40	16.00	27.0	34.00	80.00	60.0	44.50	39.0	50.0	M12	6.00	0.53
C4 SRKIN 18X80	40	18.00	33.0	42.00	80.00	60.0	57.20	39.0	50.0	M12	6.00	0.66
C4 SRKIN 20X85	40	20.00	33.0	42.00	85.00	65.0	57.20	41.0	52.0	M16	8.00	0.67
C5 SRKIN 6X75	50	6.00	21.0	27.00	75.00	55.0	38.10	25.0	36.0	M5	2.50	0.62
C5 SRKIN 8X75	50	8.00	21.0	27.00	75.00	55.0	38.10	25.0	36.0	M6	3.00	0.63
C5 SRKIN 10X75	50	10.00	24.0	32.00	75.00	55.0	51.30	31.0	42.0	M8	4.00	0.67
C5 SRKIN 12X75	50	12.00	24.0	32.00	75.00	55.0	51.30	36.0	47.0	M10	5.00	0.64
C5 SRKIN 14X80	50	14.00	27.0	34.00	80.00	60.0	44.50	36.0	47.0	M10	5.00	0.73
C5 SRKIN 16X80	50	16.00	27.0	34.00	80.00	60.0	44.50	39.0	50.0	M12	6.00	0.68
C5 SRKIN 18X80	50	18.00	33.0	42.00	80.00	60.0	57.20	39.0	50.0	M12	6.00	0.84
C5 SRKIN 20X85	50	20.00	33.0	42.00	85.00	65.0	57.20	41.0	52.0	M16	8.00	0.85
C5 SRKIN 25X90	50	25.00	44.0	53.00	90.00	70.0	57.20	47.0	58.0	M16	8.00	1.13
C6 SRKIN 6X80	63	6.00	21.0	27.00	80.00	58.0	38.10	25.0	36.0	M5	2.50	0.95
C6 SRKIN 8X80	63	8.00	21.0	27.00	80.00	58.0	38.10	25.0	36.0	M6	3.00	0.97
C6 SRKIN 10X80	63	10.00	24.0	32.00	80.00	58.0	50.80	31.0	42.0	M8	4.00	1.07
C6 SRKIN 12X80	63	12.00	24.0	32.00	80.00	58.0	50.80	36.0	47.0	M10	5.00	1.01
C6 SRKIN 14X85	63	14.00	27.0	34.00	85.00	63.0	44.50	36.0	47.0	M10	5.00	1.08
C6 SRKIN 16X85	63	16.00	27.0	34.00	85.00	63.0	44.50	39.0	50.0	M12	6.00	1.06
C6 SRKIN 18X85	63	18.00	33.0	42.00	85.00	63.0	57.20	39.0	50.0	M12	6.00	1.21
C6 SRKIN 20X85	63	20.00	33.0	42.00	85.00	63.0	57.20	41.0	52.0	M16	8.00	1.16
C6 SRKIN 25X90	63	25.00	44.0	53.00	90.00	68.0	57.20	47.0	58.0	M16	8.00	1.50
C6 SRKIN 32X95	63	32.00	44.0	53.00	95.00	73.0	57.20	47.0	58.0	M16	8.00	1.46

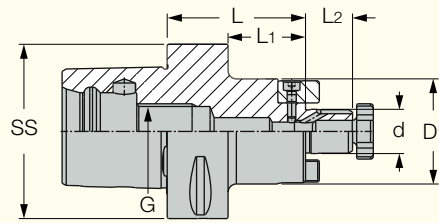
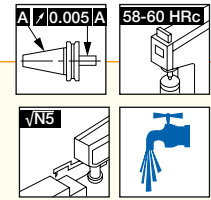
• Can be used for carbide and HSS tools. • The adjustment screw has an internal coolant hole.

⁽¹⁾ Hex key size for the rear stopper screw

For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

C#-SEM

ISO 3937 Shell Mill Holders with Coolant Holes ISO 26623-1
Exchangeable, Tapered Shanks



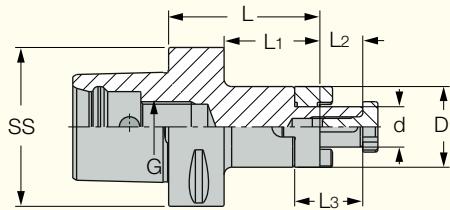
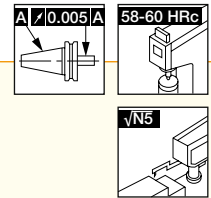
Designation	SS	d	D ₁	L ₂	L ₁	L	G	Kg
C3 SEM 16X30 C	32	16.00	38.0	17.00	13.0	30.00	M12	0.00
C4 SEM 16X 32 C	40	16.00	38.0	17.00	12.0	32.00	M14	0.36
C4 SEM 16X 55 C	40	16.00	38.0	17.00	35.0	55.00	M14	0.54
C4 SEM 22X 40 C	40	22.00	47.0	19.00	20.0	40.00	M14	0.52
C4 SEM 22X 55 C	40	22.00	47.0	19.00	25.0	55.00	M14	0.80
C5 SEM 16X 35 C	50	16.00	38.0	17.00	15.0	35.00	M16	0.57
C5 SEM 16X 70 C	50	16.00	38.0	17.00	50.0	70.00	M16	0.85
C5 SEM 22X 35 C	50	22.00	47.0	19.00	15.0	35.00	M16	0.65
C5 SEM 22X 70 C	50	22.00	47.0	19.00	50.0	70.00	M16	1.09
C5 SEM 27X 40 C	50	27.00	58.0	21.00	20.0	40.00	M16	0.85
C5 SEM 32X 40 C	50	32.00	63.0	24.00	20.0	40.00	M16	0.93
C6 SEM 16X 50 C	63	16.00	38.0	17.00	28.0	50.00	M20	1.00
C6 SEM 16X100 C	63	16.00	38.0	17.00	78.0	100.00	M20	1.41
C6 SEM 22X 50 C	63	22.00	47.0	19.00	28.0	50.00	M20	1.15
C6 SEM 22X100 C	63	22.00	47.0	19.00	78.0	100.00	M20	1.81
C6 SEM 27X 60 C	63	27.00	58.0	21.00	37.0	60.00	M20	1.52
C6 SEM 27X100 C	63	27.00	58.0	21.00	78.0	100.00	M20	2.33
C6 SEM 32X 60 C	63	32.00	66.0	24.00	37.0	60.00	M20	1.79
C6 SEM 40X 60 C	63	40.00	82.0	27.00	37.0	60.00	M20	2.34
C8 SEM 16X50 C	80	16.00	38.0	17.00	20.0	50.00	M20	1.90
C8 SEM 16X100C	80	16.00	38.0	17.00	70.0	100.00	M20	2.32
C8 SEM 22X50 C	80	22.00	47.0	19.00	20.0	50.00	M20	2.01
C8 SEM 22X100C	80	22.00	47.0	19.00	70.0	100.00	M20	7.50
C8 SEM 27X50 C	80	27.00	58.0	21.00	20.0	50.00	M20	2.18
C8 SEM 27X100C	80	27.00	58.0	21.00	70.0	100.00	M20	3.14
C8 SEM 32X50 C	80	32.00	66.0	24.00	20.0	50.00	M20	2.28
C8 SEM 32X100C	80	32.00	66.0	24.00	70.0	100.00	M20	3.56
C8 SEM 40X60 C	80	40.00	82.0	27.00	30.0	60.00	M20	2.99

For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

Quick Change
High Precision
Tools and Holders for
MAXIMUM
MACHINING PERFORMANCE

C#-SEMC

DIN 6358 COMBI Shell Mill Holders with ISO 26623-1
Exchangeable, Tapered Shanks

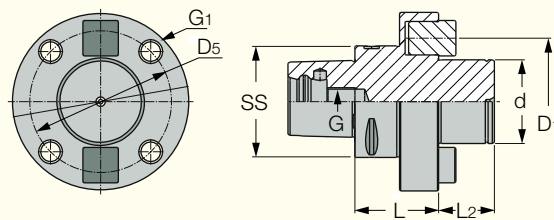
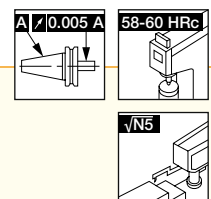


Designation	SS	d	L	D ₁	L ₁	L ₂	L ₃	G	Kg
C3 SEMC 16X30	32	16.00	30.00	32.0	10.0	17.00	27.00	M12	0.00
C4 SEMC 16X45	40	16.00	45.00	32.0	25.0	17.00	27.00	M14	0.36
C4 SEMC 22X45	40	22.00	45.00	40.0	25.0	19.00	31.00	M14	0.40
C4 SEMC 27X50	40	27.00	50.00	48.0	30.0	21.00	33.00	M14	0.33
C5 SEMC 16X55	50	16.00	55.00	32.0	35.0	17.00	27.00	M16	0.60
C5 SEMC 16X85	50	16.00	85.00	32.0	65.0	17.00	27.00	M16	0.77
C5 SEMC 22X65	50	22.00	65.00	40.0	45.0	19.00	31.00	M16	0.79
C5 SEMC 27X85	50	27.00	85.00	48.0	65.0	21.00	33.00	M16	1.22
C6 SEMC 16X60	63	16.00	60.00	32.0	38.0	17.00	27.00	M20	1.08
C6 SEMC 16X100	63	16.00	100.00	32.0	78.0	17.00	27.00	M20	1.34
C6 SEMC 22X60	63	22.00	60.00	40.0	38.0	19.00	31.00	M20	3.12
C6 SEMC 22X100	63	22.00	100.00	40.0	78.0	19.00	31.00	M20	1.40
C6 SEMC 27X60	63	27.00	60.00	48.0	38.0	21.00	33.00	M20	1.21
C6 SEMC 27X100	63	27.00	100.00	48.0	78.0	21.00	33.00	M20	1.69
C6 SEMC 32X60	63	32.00	60.00	58.0	38.0	24.00	38.00	M20	1.35
C6 SEMC 40X70	63	40.00	70.00	70.0	48.0	27.00	41.00	M20	1.95

For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

C#-FM

DIN 6357 Face Mill Holders with ISO 26623-1 Tapered Shanks



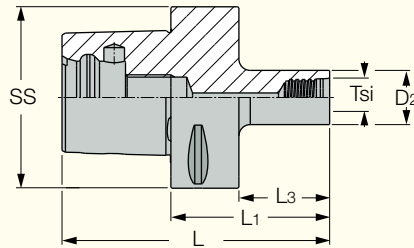
Designation	SS	d	L ₂	L	D ₁	D ₅	G ₁	G	Kg
C8 FM 60X60	80	60.00	20.00	40.00	128.0	101.60	M16	M20	5.22

For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

MULTI-MASTER • CAMFIX

MM S-A-C#

MULTI MASTER Threaded Connection Shanks with CAMFIX (ISO 26623-1)
Exchangeable Adaptation



G6.3		
SK 15,000 RPM		

Quick Change
High Precision
Tools and Holders for
MAXIMUM
MACHINING PERFORMANCE

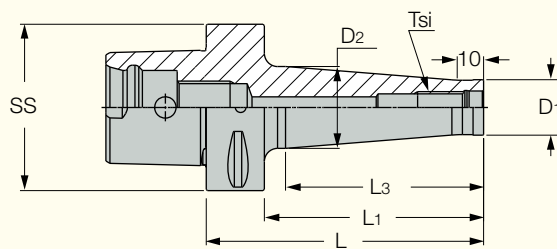
Designation	SS	Tsi	D2	L	L1	L3
MM S-A-H035-C3-T05	32	T05	7.60	35.00	20.0	15.00
MM S-A-H035-C3-T06	32	T06	9.25	35.00	20.0	15.00
MM S-A-H040-C3-T08	32	T08	11.50	40.00	25.0	20.00
MM S-A-H040-C3-T10	32	T10	15.20	40.00	25.0	20.00
MM S-A-H045-C3-T12	32	T12	18.30	45.00	30.0	25.00
MM S-A-H045-C4-T06	40	T06	9.25	45.00	25.0	20.00
MM S-A-H045-C4-T08	40	T08	11.50	45.00	25.0	20.00
MM S-A-H050-C4-T10	40	T10	15.20	50.00	30.0	25.00
MM S-A-H055-C4-T12	40	T12	18.30	55.00	35.0	30.00
MM S-A-H055-C4-T15	40	T15	23.90	55.00	35.0	30.00
MM S-A-H060-C5-T10	50	T10	15.20	60.00	40.0	35.00
MM S-A-H060-C5-T12	50	T12	18.30	60.00	40.0	35.00
MM S-A-H060-C5-T15	50	T15	23.90	60.00	40.0	35.00
MM S-A-H065-C6-T12	63	T12	23.90	65.00	43.0	38.00
MM S-A-H065-C6-T15	63	T15	23.90	65.00	43.0	38.00
MM S-A-H070-C8-T15	80	T15	23.90	70.00	40.0	35.00

• Do not apply lubricant to the threaded connection

FLEXFIT • CAMFIX

C#-ODP (FLEXFIT)

FLEXFIT Threaded Connection Shanks with CAMFIX (ISO 26623-1)
Exchangeable, Tapered Adaptations



G6.3		
SK 15,000 RPM		

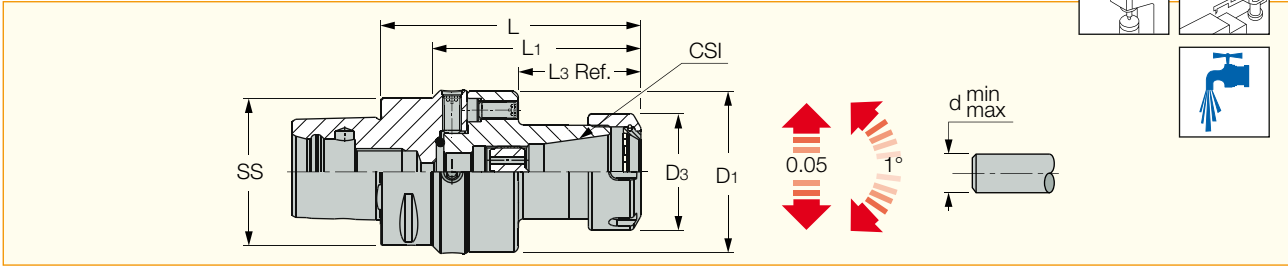
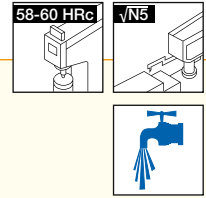
Designation	SS	Tsi	D2	D1	L	L1	L3	Kg
C4 ODP 10X 53	40	M10	23.00	18.0	53.00	33.0	23.00	0.33
C4 ODP 12X 53	40	M12	26.00	21.0	53.00	33.0	23.00	0.33
C4 ODP 16X 53	40	M16	34.00	29.0	53.00	33.0	23.00	0.40
C5 ODP 10X 53	50	M10	19.50	18.0	53.00	33.0	25.00	0.49
C5 ODP 10X103	50	M10	28.00	18.0	103.00	83.0	75.00	0.10
C5 ODP 12X 53	50	M12	23.50	21.0	53.00	33.0	25.00	0.50
C5 ODP 12X103	50	M12	31.00	21.0	103.00	83.0	75.00	0.72
C5 ODP 16X 53	50	M16	34.00	29.0	53.00	33.0	25.00	0.57
C5 ODP 16X103	50	M16	36.00	29.0	103.00	83.0	75.00	0.85
C6 ODP 10X 55	63	M10	19.50	18.0	55.00	33.0	25.00	0.82
C6 ODP 10X105	63	M10	28.00	18.0	105.00	83.0	75.00	1.00
C6 ODP 10X130	63	M10	32.00	18.0	130.00	108.0	100.00	1.20
C6 ODP 12X 55	63	M12	23.50	21.0	55.00	33.0	25.00	0.84
C6 ODP 12X105	63	M12	31.00	21.0	105.00	83.0	75.00	1.07
C6 ODP 12X130	63	M12	36.00	21.0	130.00	108.0	100.00	1.26
C6 ODP 16X 55	63	M16	34.00	29.0	55.00	33.0	25.00	0.89
C6 ODP 16X105	63	M16	34.00	29.0	105.00	83.0	75.00	1.19
C6 ODP 16X130	63	M16	41.00	29.0	130.00	108.0	100.00	1.49

For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

FINEFIT • CAMFIX

ADJ C-ER

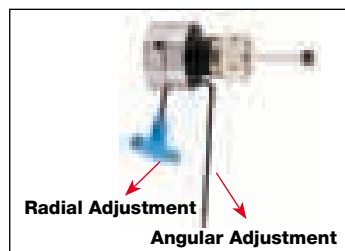
FINEFIT Center Alignment Shank and Base with a CAMFIX Adaptation, for Specially Tailored Toolholders



Designation	SS	CSI	d _{min}	d _{max}	D ₁	D ₃	L	L ₁	L ₃
ADJ C5 ER32	50	ER32	2.0	20.0	70.0	50.00	115.00	95.0	52.50
ADJ C6 ER32	63	ER32	2.0	20.0	70.0	50.00	111.50	89.5	52.50

• Radial adjustment 0.1 mm. Angular adjustment 1°.

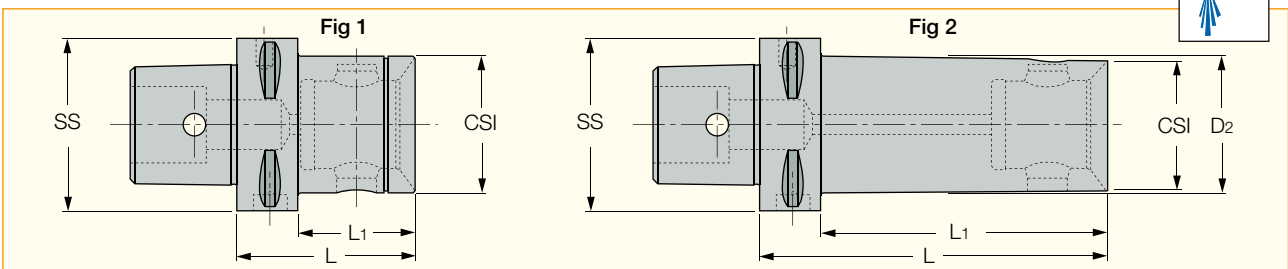
For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog



ITSBORE • CAMFIX

C#-MB

MB Modular Boring System Connection with CAMFIX Exchangeable Shanks



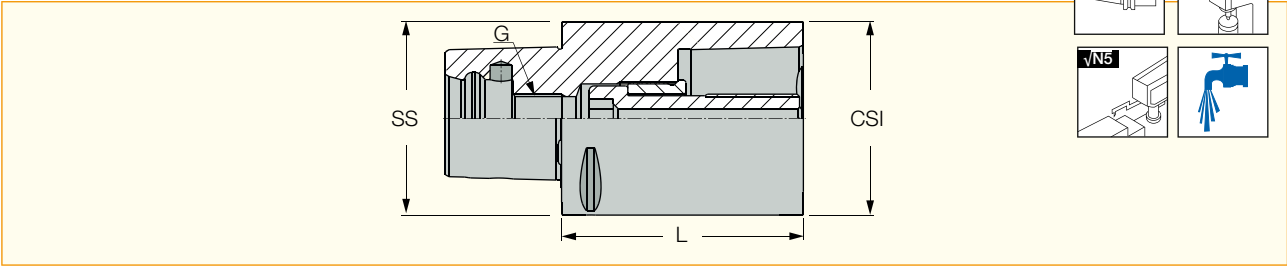
Designation	SS	CSI	L	L ₁	D ₂	Kg	Fig.
C4 MB32X42	40	MB32	42.00	22.0	-	0.30	1
C5 MB50X55	50	MB50	55.00	-	-	0.80	1
C6 MB40X50	63	MB40	50.00	28.0	-	0.90	1
C6 MB40X120	63	MB40	120.00	98.0	44.00	1.50	2
C6 MB50X67	63	MB50	67.00	45.0	-	1.10	1
C6 MB50X120	63	MB50	120.00	98.0	54.00	1.90	2
C6 MB63X77	63	MB63	77.00	-	-	1.80	1
C8 MB50X60	80	MB50	60.00	30.0	-	2.00	1
C8 MB50X120	80	MB50	120.00	90.0	54.00	2.80	2
C8 MB63X70	80	MB63	70.00	40.0	-	2.30	1
C8 MB63X150	80	MB63	150.00	120.0	67.00	4.00	2
C8 MB80X75	80	MB80	75.00	-	-	2.60	1
C8 MB80X120	80	MB80	120.00	-	-	4.30	1
C10 MB80X80	100	MB80	80.00	48.0	-	3.50	1
C10 MB110X120	100	MB110	120.00	88.0	-	5.00	1

• Verify that the weight of the entire tool assembly does not exceed the machine spindle's carrying capability.

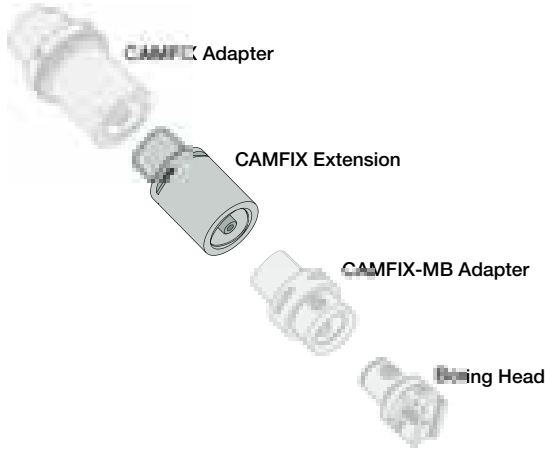
EX C# (CAMFIX extension)

CAMFIX Extension Adapters

Quick Change
High Precision
Tools and Holders for
MAXIMUM
MACHINING PERFORMANCE

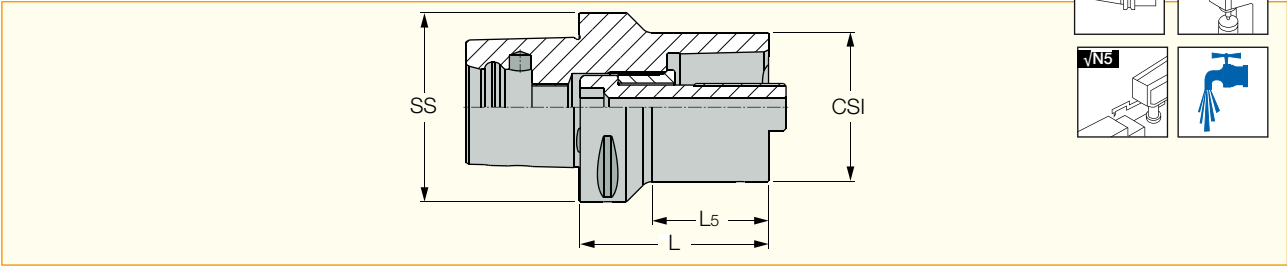
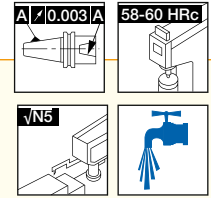


Designation	CSI	SS	L	G	Kg
C3 EX C3X060	32	32	60.00	M12	0.40
C3 EX C3X080	32	32	80.00	M12	0.50
C4 EX C4X060	40	40	60.00	M14	0.50
C4 EX C4X100	40	40	100.00	M14	0.70
C5 EX C5X080	50	50	80.00	M16	1.13
C5 EX C5X100	50	50	100.00	M16	1.42
C6 EX C6X100	63	63	100.00	M20	2.23
C6 EX C6X140	63	63	140.00	M20	3.13
C8 EX C8X100	80	80	100.00	M20	3.65
C8 EX C8X125	80	80	125.00	M20	4.60



RE-C#

CAMFIX Reduction Adapters



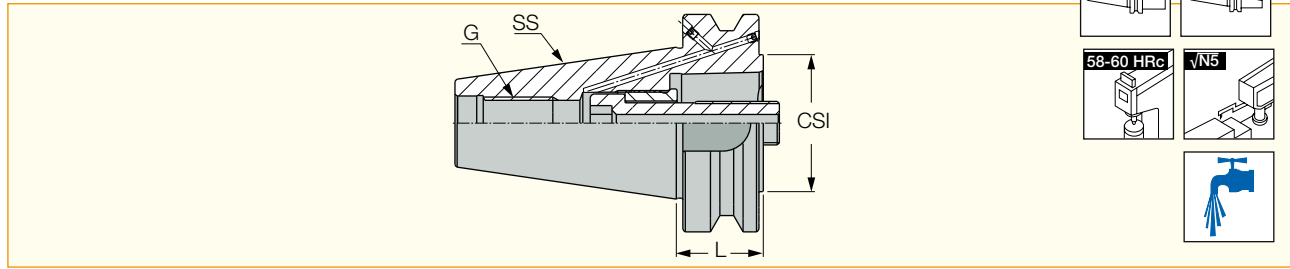
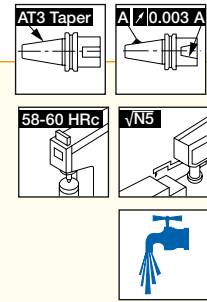
Designation	SS	CSI	L	L5	Kg
C4 RE C3X070	40	32	70.00	12.00	0.50
C5 RE C3X060	50	32	60.00	34.80	0.60
C5 RE C4X060	50	40	60.00	40.00	0.80
C5 RE C4X080	50	40	80.00	12.00	1.10
C6 RE C3X070	63	32	70.00	39.00	1.10
C6 RE C4X080	63	40	80.00	51.40	1.20
C6 RE C5X080	63	50	80.00	51.50	1.50
C6 RE C5X120	63	50	120.00	12.00	1.50
C8 RE C3X060	80	32	60.00	29.30	1.70
C8 RE C4X070	80	40	70.00	36.50	1.90
C8 RE C5X080	80	50	80.00	49.30	2.20
C8 RE C6X080	80	63	80.00	53.10	2.50
C8 RE C6X120	80	63	120.00	12.00	4.00
C10 RE C8X100	100	80	100.00	58.20	5.50



BT MAS • CAMFIX

BT-C#

CAMFIX (ISO 26623-1) Holders with BT MAS-403 AD/ADB Tapered Shanks



Designation	SS	L	G	Kg
C5 AD BT40X30	40	30.00	M16	0.84
C6 AD BT50X40	50	40.00	M24	3.32
C8 AD BT50X70 ADB	50	70.00	M24	4.05

Spare Parts



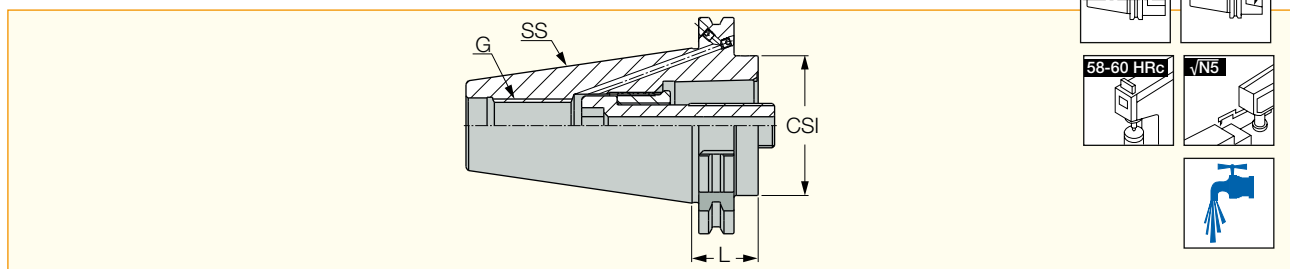
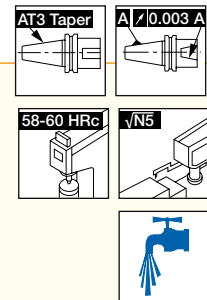
Designation	Tool Clamping Screw	Key	Ring
C5 AD BT40X30	SR M16X70 C5	HW 10.0*	MT RING M25X20 C5
C6 AD BT50X40	SR M20X87 C6/8	HW 14.0*	MT RING M30X24 C6/8
C8 AD BT50X70 ADB	SR M20X87 C6/8	HW 14.0*	MT RING M30X24 C6/8

* Optional, should be ordered separately

DIN69871 • CAMFIX

DIN69871-C#

CAMFIX (ISO 26623-1) Holders with DIN 69871 Form AD/ADB Tapered Shanks



Designation	SS	CSI	L	G	Kg
C5 AD SKA 40X30	40	50	30.00	M16	0.80
C6 AD SKA 50X30	50	63	30.00	M24	2.55
C8 AD SKA 50X70 ADB	50	80	70.00	M24	3.77

Spare Parts



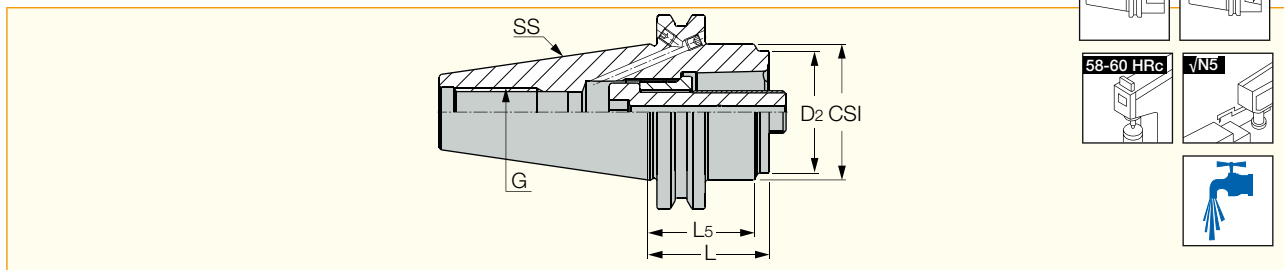
Designation	Key
C5 AD SKA 40X30	HW 10.0*
C6 AD SKA 50X30	HW 14.0*
C8 AD SKA 50X70 ADB	HW 14.0*

* Optional, should be ordered separately

CAT • CAMFIX

CATI-C#

CAMFIX (ISO 26623-1) Holders with Caterpillar AD/ADB Tapered Shanks



Designation	SS	CSI	D ₂	L	L ₅	G	Kg
C5 AD CATI 40X90 ADB	40	50	45.20	90.00	35.00	5/8X11	1.62
C6 AD CATI 50X50	50	63	69.85	50.00	37.00	1-8	3.10
C8 AD CATI 50X100 ADB	50	80	70.10	100.00	35.00	1-8	4.71

Spare Parts



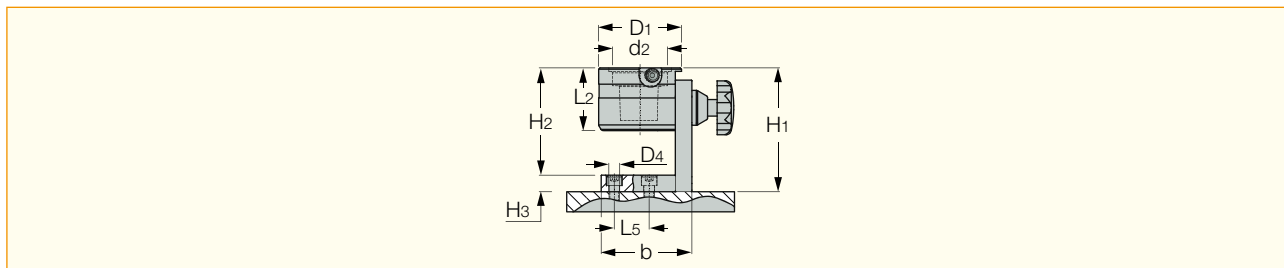
Designation	Tool Clamping Screw	Key	Ring
C5 AD CATI 40X90 ADB	SR M16X70 C5	HW 10.0*	MT RING M25X20 C5
C6 AD CATI 50X50	SR M20X87 C6/8	HW 14.0*	MT RING M30X24 C6/8
C8 AD CATI 50X100 ADB	SR M20X87 C6/8	HW 14.0*	MT RING M30X24 C6/8

* Optional, should be ordered separately

Accessories

MULTI CLAMP C#

Rotary Clamping Fixtures for CAMFIX (ISO 26623-1) Tapered Shank Toolholders

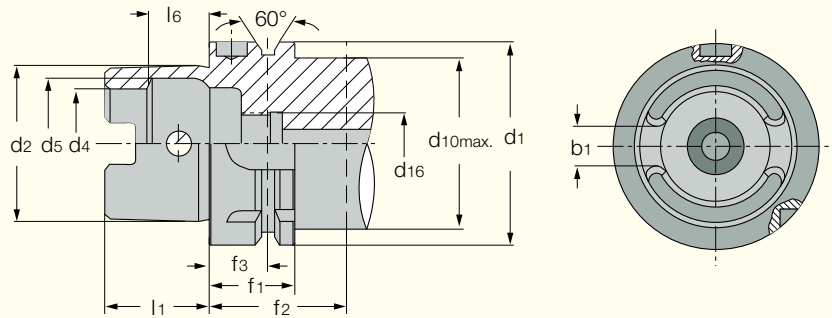


Designation	S. Std.	SS	d ₂	D ₁	L ₂	H ₁	H ₂	H ₃	b	L ₅	D ₄
MULTI CLAMP C4	C4	40	40.40	78.0	67.00	137.0	118.0	19.0	104.0	40.00	12.50
MULTI CLAMP C5	C5	50	50.00	82.0	72.00	142.0	123.0	19.0	104.0	40.00	12.50
MULTI CLAMP C6	C6	63	63.00	95.0	72.00	142.0	123.0	19.0	104.0	40.00	12.50
MULTI CLAMP C8	C8	80	80.00	130.0	90.00	178.0	159.0	19.0	104.0	85.00	12.50



HSK DIN 69893 FORM A ROTATING TOOLS

Toolholder Standard



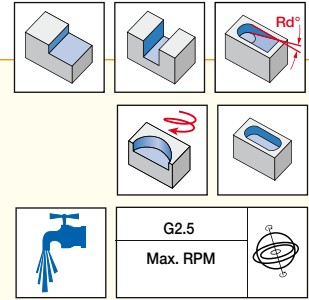
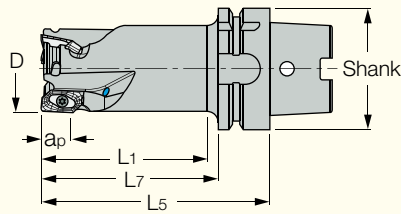
d ₁ h10	d ₂	d ₄ H10	d ₅ H11	d ₁₀ max	d ₁₆	l ₁ -0.2	l ₆ Js10	b ₁ ±0.04(1)	f ₁ -0.1	f ₂ min	f ₃ ±0.1
40	30	21	25.5	34	M12x1	20	11.42	8.05	20	35	16
50	38	26	32.0	42	M16x1	25	14.13	10.54	26	42	18
63	48	34	40.0	53	M18x1	32	18.13	12.54 (12.42)	26	42	18
80	60	42	50.0	67	M20x1.5	40	22.85	16.04	26	42	18
100	75	53	63.0	85	M24x1.5	50	28.56	20.02 (19.9)	29	45	20

⁽¹⁾ The dimensions in parentheses refer to dimension b₁ only for HSK A...WH tools. These tools feature key slot gap and tolerance, used on turning tools for accurate cutting edge height position, (according to Japanese ICTM standard and ISO 12164/3 standard).



HM90 EAL-HSK63A-15

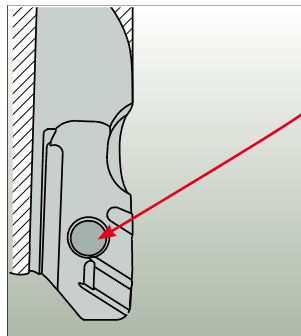
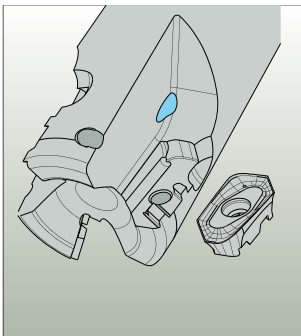
Long Reach Endmills with Integral HSK Adaptation for Machining Aluminum, Carrying HM90 AXCR 1505... Inserts



Designation	D	L ₁	Z	a _p	L ₇	L ₅	RPM _{max}	R _d [°]	Shank	Kg
HM90 EAL25-L50-HSK63A-15	25.00	45.0	2	15.00	50.00	76.00	37500	21.0	HSK A 63	0.75
HM90 EAL25-L75-HSK63A-15	25.00	70.0	2	15.00	75.00	101.00	31250	21.0	HSK A 63	0.82
HM90 EAL32-L65-HSK63A-15	32.00	60.0	3	15.00	65.00	91.00	31250	13.0	HSK A 63	0.90
HM90 EAL32-L100-HSK63A-15	32.00	95.0	3	15.00	100.00	126.00	31250	13.0	HSK A 63	1.09
HM90 EAL40-L80-HSK63A-15	40.00	75.0	3	15.00	80.00	106.00	26040	9.0	HSK A 63	1.19
HM90 EAL40-L120-HSK63A-15	40.00	115.0	3	15.00	120.00	146.00	26040	9.0	HSK A 63	1.53

• A cooling tube must be used with all internal coolant HSK spindles (should be ordered separately) • Insert tightening torque: 350 Nxcmm • Balanced to G2.5/ max RPM

For inserts: HM90 AXCR 1505... refer to ISCAR MILLING TOOLS catalog



R body=R insert+0.5

HM90 EAL...15 For indexable inserts with a corner radius larger than 4.0 mm, the basic body of the tool must be modified according to drawing above (can be done by ISCAR).

HM90 EAL...15



F - The cutting force in ramping applications

Spare Parts

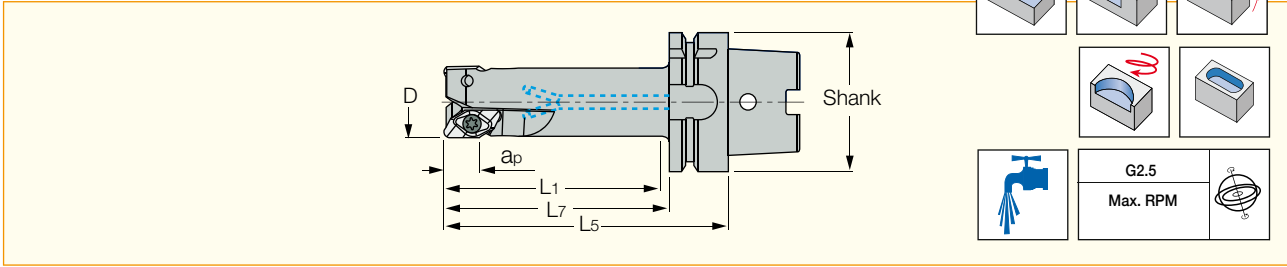


Designation	Screw	Key
HM90 EAL-HSK63A-15	SR 14-562	T-10/51

HM90 EAL-HSK63A-16

Long Reach Endmills with Integral HSK Adaptation for Machining Aluminum, Carrying HM90 APCR 1605... Inserts

Quick Change
High Precision
Tools and Holders for
MAXIMUM
MACHINING PERFORMANCE



Designation	D	L1	L7	L5	Z	RPM _{max}	R _d [°]	Shank	a _p ⁽¹⁾	Kg
HM90 EAL32-L65-HSK63A-16	32.00	62.0	65.00	91.00	2	45600	22.0	HSK A 63	15.80	0.87
HM90 EAL32-L100-HSK63A-16	32.00	97.0	100.00	126.00	2	45600	22.0	HSK A 63	15.80	1.06
HM90 EAL40-L80-HSK63A-16	40.00	77.0	80.00	106.00	2	36800	16.0	HSK A 63	15.80	1.16
HM90 EAL40-L120-HSK63A-16	40.00	117.0	120.00	146.00	2	36800	16.0	HSK A 63	15.80	1.52

• Insert tightening torque: 600 NxcM • HM90 APCR 1605..R-P inserts with corner radii larger than 4.5 mm should be used only on BR tools • A cooling tube must be used with all internal coolant HSK spindles (should be ordered separately). • Balanced to G2.5/max RPM.

⁽¹⁾ D.O.C. changes according to insert radius, ap 15.8 is the value for HM90 APCR 160520R-P.

For inserts: HM90 APCR 1605... refer to ISCAR MILLING TOOLS catalog

Spare Parts

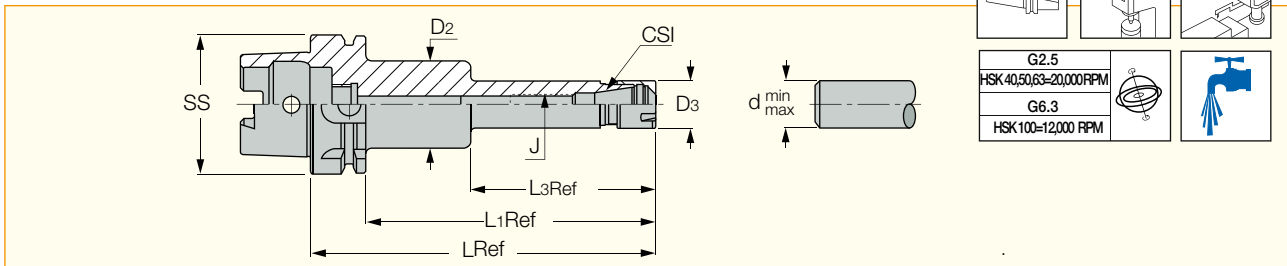


Designation	Screw	Torx Blade	T-Handle
HM90 EAL-HSK63A-16	SR 14-0180	BLD T20/M7	SW6-T

HSK

HSK A-ER-M (mini)

DIN6499 ER Mini Collet Chucks with a DIN69893 Form A HSK Tapered Shanks



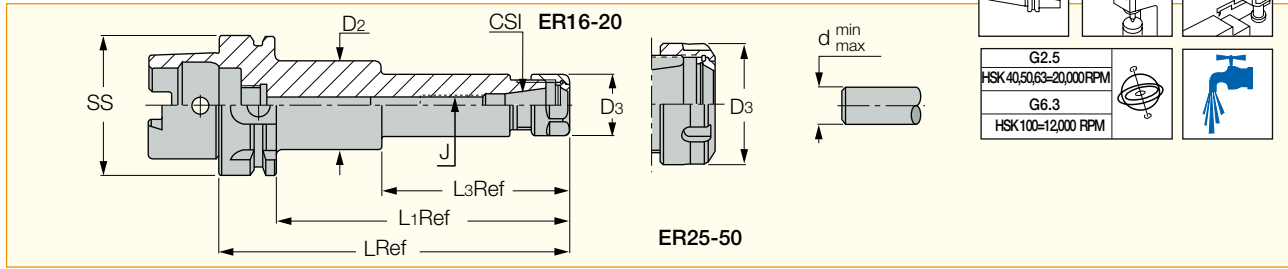
Designation	SS	CSI	d _{min}	d _{max}	D ₃	D ₂	L	L ₁	L ₃	J	Kg
HSK A 63 ER16X100 M	63	ER16	0.5	10.0	22.00	-	100.00	74.0	-	M10	0.80
HSK A 63 ER16X120 M	63	ER16	0.5	10.0	22.00	40.00	120.00	94.0	78.00	M10	0.94
HSK A 63 ER16X160 M	63	ER16	0.5	10.0	22.00	40.00	160.00	134.0	85.00	M10	1.26
HSK A 63 ER20X100 M	63	ER20	1.0	13.0	28.00	-	100.00	74.0	-	M12	0.85
HSK A 63 ER20X120 M	63	ER20	1.0	13.0	28.00	-	120.00	94.0	-	M12	0.92
HSK A 63 ER20X160 M	63	ER20	1.0	13.0	28.00	45.00	160.00	134.0	85.00	M12	1.46
HSK A 100 ER16X100 M	100	ER16	0.5	10.0	22.00	-	100.00	71.0	-	M10	2.16
HSK A 100 ER16X160 M	100	ER16	0.5	10.0	22.00	40.00	160.00	131.0	85.00	M10	2.65
HSK A 100 ER20X100 M	100	ER20	1.0	13.0	28.00	-	100.00	71.0	-	M12	2.22
HSK A 100 ER20X160 M	100	ER20	1.0	13.0	28.00	50.00	160.00	131.0	85.00	M12	2.82

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

HSK A-ER

DIN6499 ER Collet Chucks with HSK DIN69893 Form A Tapered Shanks



Designation	SS	CSI	d _{min}	d _{max}	D ₃	D ₂	L	L ₁	L ₃	J	Kg
HSK A 63 ER16X100	63	ER16	0.5	10.0	28.00	-	100.00	74.0	-	M10	0.86
HSK A 63 ER16X120	63	ER16	0.5	10.0	28.00	-	120.00	94.0	-	M10	0.96
HSK A 63 ER16X160	63	ER16	0.5	10.0	28.00	40.00	160.00	134.0	85.60	M10	1.38
HSK A 63 ER20X100	63	ER20	1.0	13.0	34.00	-	100.00	74.0	-	M12	0.94
HSK A 63 ER20X120	63	ER20	1.0	13.0	34.00	-	120.00	94.0	-	M12	1.09
HSK A 63 ER20X160	63	ER20	1.0	13.0	34.00	45.00	160.00	134.0	85.00	M12	1.59
HSK A 63 ER25X 80	63	ER25	1.0	16.0	42.00	-	80.00	54.0	-	M8	0.92
HSK A 63 ER25X100	63	ER25	1.0	16.0	42.00	-	100.00	74.0	-	M16	1.10
HSK A 63 ER25X120	63	ER25	1.0	16.0	42.00	-	120.00	94.0	-	M16	1.29
HSK A 63 ER25X160	63	ER25	1.0	16.0	42.00	-	160.00	134.0	-	M16	1.68
HSK A 63 ER32X 80	63	ER32	2.0	20.0	50.00	40.40	80.00	54.0	31.00	-	0.84
HSK A 63 ER32X100	63	ER32	2.0	20.0	50.00	-	100.00	74.0	-	M22X1.5	1.18
HSK A 63 ER32X120	63	ER32	2.0	20.0	50.00	-	120.00	94.0	-	M22X1.5	1.46
HSK A 63 ER32X160	63	ER32	2.0	20.0	50.00	-	160.00	134.0	-	M22X1.5	1.99
HSK A 63 ER40X 80	63	ER40	3.0	26.0	63.00	50.40	80.00	54.0	34.00	-	0.92
HSK A 63 ER40X100	63	ER40	3.0	26.0	63.00	50.40	100.00	74.0	34.00	M28X1.5	1.16
HSK A 63 ER40X120	63	ER40	3.0	26.0	63.00	50.40	120.00	94.0	34.00	M28X1.5	1.38
HSK A 63 ER40X160	63	ER40	3.0	26.0	63.00	50.40	160.00	134.0	34.00	M28X1.5	1.99
HSK A 100 ER16X100	100	ER16	0.5	10.0	28.00	-	100.00	71.0	-	M10	2.21
HSK A 100 ER16X160	100	ER16	0.5	10.0	28.00	40.00	160.00	131.0	85.00	M10	2.71
HSK A 100 ER20X100	100	ER20	1.0	13.0	34.00	-	100.00	71.0	-	M12	2.29
HSK A 100 ER20X160	100	ER20	1.0	13.0	34.00	50.00	160.00	131.0	85.00	M12	3.08
HSK A 100 ER25X100	100	ER25	1.0	16.0	42.00	-	100.00	71.0	-	M16	2.47
HSK A 100 ER25X120	100	ER25	1.0	16.0	42.00	-	120.00	91.0	-	M16	2.65
HSK A 100 ER25X160	100	ER25	1.0	16.0	42.00	-	160.00	134.0	-	M16	3.02
HSK A 100 ER32X100	100	ER32	2.0	20.0	50.00	-	100.00	71.0	-	M22X1.5	2.55
HSK A 100 ER32X120	100	ER32	2.0	20.0	50.00	-	120.00	91.0	-	M22X1.5	2.80
HSK A 100 ER32X160	100	ER32	2.0	20.0	50.00	-	160.00	131.0	-	M22X1.5	3.32
HSK A 100 ER40X100	100	ER40	3.0	26.0	63.00	-	100.00	71.0	-	M28X1.5	2.80
HSK A 100 ER40X120	100	ER40	3.0	26.0	63.00	-	120.00	91.0	-	M28X1.5	3.17
HSK A 100 ER40X160	100	ER40	3.0	26.0	63.00	-	160.00	131.0	-	M28X1.5	4.08
HSK A 100 ER50X100	100	ER50	10.0	34.0	78.00	-	100.00	71.0	-	M22X1.5	2.88

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

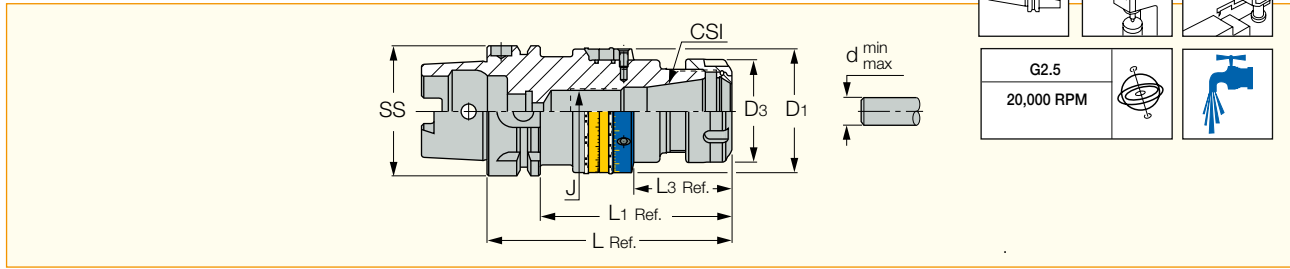
For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

BALANCIN • HSK

HSK A-ER-BIN (BALANCIN)

DIN6499 ER Collet Chucks with HSK DIN69893

Form A Balanceable Tapered Shanks



Designation	SS	CSI	d _{min}	d _{max}	D ₃	D ₁	L	L ₁	L ₃	J	Kg
HSK A 63 ER16X100 BIN	63	ER16	0.5	10.0	28.00	44.0	100.00	74.0	45.00	M10	0.97
HSK A 63 ER16X160 BIN	63	ER16	0.5	10.0	28.00	44.0	160.00	134.0	75.00	M10	1.45
HSK A 63 ER20X100 BIN	63	ER20	1.0	13.0	34.00	44.0	100.00	74.0	45.10	M12	0.99
HSK A 63 ER20X160 BIN	63	ER20	1.0	13.0	34.00	44.0	160.00	134.0	86.10	M12	1.48
HSK A 63 ER25X100 BIN	63	ER25	1.0	16.0	42.00	44.0	100.00	74.0	45.20	M16	0.97
HSK A 63 ER25X160 BIN	63	ER25	1.0	16.0	42.00	44.0	160.00	134.0	86.20	M16	1.42
HSK A 63 ER32X120 BIN	63	ER32	2.0	20.0	50.00	60.0	120.00	94.0	48.00	M22X1.5	1.55
HSK A 63 ER32X160 BIN	63	ER32	2.0	20.0	50.00	60.0	160.00	134.0	85.00	M22X1.5	2.09

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately). • Balanced to G2.5/20,000 RPM, (preset balanced value) can be improved by using a balancing machine.

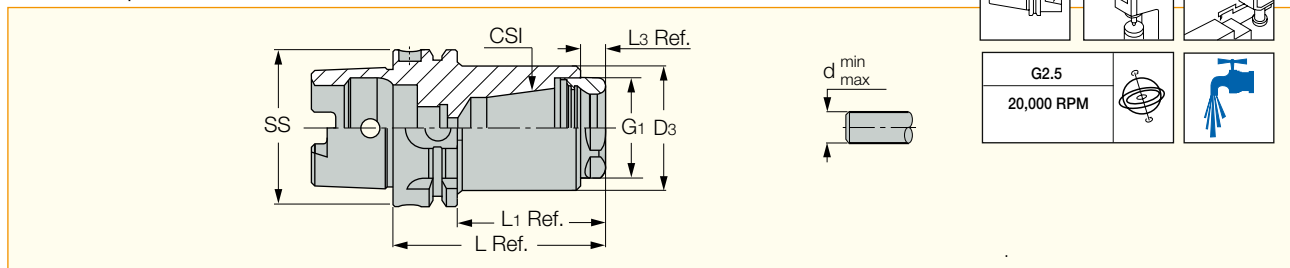
For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

SHORTIN • HSK

HSK A-ER-SHORT

Short, DIN6499 ER Collet Chucks with HSK DIN69893

Form A Tapered Shanks



Designation	SS	CSI	d _{min}	d _{max}	D ₃	L	L ₁	L ₃	G ₁	Kg
HSK A 63 ER32 SHORT	63	ER32	2.0	20.0	50.00	84.50	56.1	9.50	M40X1.5	1.13
HSK A 100 ER32 SHORT	100	ER32	2.0	20.0	50.00	89.50	60.5	9.50	M40X1.5	2.54
HSK A 100 ER40 SHORT	100	ER40	3.0	26.0	70.00	104.50	75.5	9.50	M50X1.5	3.51

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately). • Balanced to G2.5/20,000 RPM

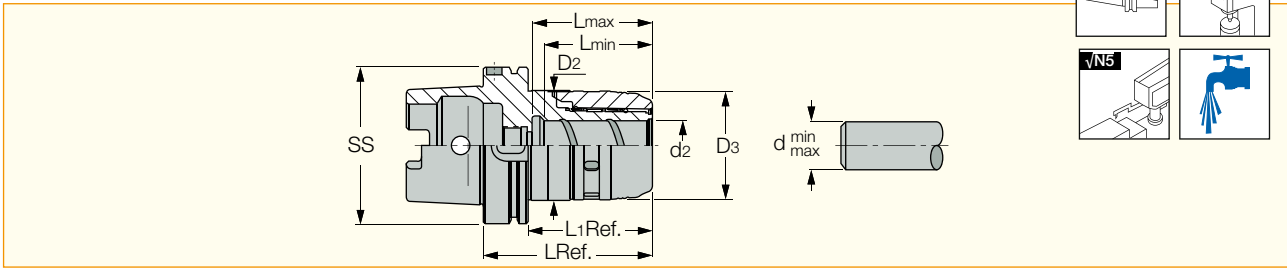
For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

Quick Change
High Precision
Tools and Holders for
MAXIMUM
MACHINING PERFORMANCE

MAXIN • HSK

HSK A-MAXIN

Power Chucks with HSK DIN69893 Form A Tapered Shanks



Designation	SS	d ₂ ⁽¹⁾	d _{min} ⁽²⁾	D ₃	D ₂	L	L ₁	L _{min}	L _{max}	Kg
HSK A 63 MAXIN 20X95	63	20.00	6.0	51.00	53.00	95.00	69.0	56.0	56.0	1.02
HSK A 63 MAXIN 32X113	63	32.00	6.0	69.00	70.00	113.00	87.0	70.0	85.0	1.32
HSK A 100 MAXIN 20X115	100	20.00	6.0	51.00	53.00	115.00	86.0	56.0	69.0	2.61
HSK A 100 MAXIN 32X110	100	32.00	6.0	69.00	70.00	110.00	81.0	70.0	78.0	2.72
HSK A 100 MAXIN 32X135	100	32.00	6.0	69.00	70.00	135.00	106.0	71.0	87.0	3.45

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately). • Use of d_{max} diameter tools provide best performance as collets reduce gripping force by 25%.

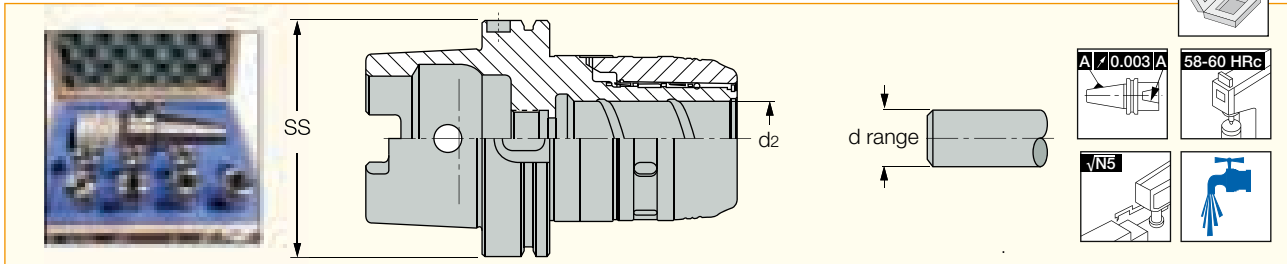
⁽¹⁾ Without a collet ⁽²⁾ By using a reduction collet

For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

MAXIN KIT • HSK

KIT HSK A-MAXIN

Contains a Power Chuck with an HSK Tapered Shank and a Set of Collets in Various Bore Sizes



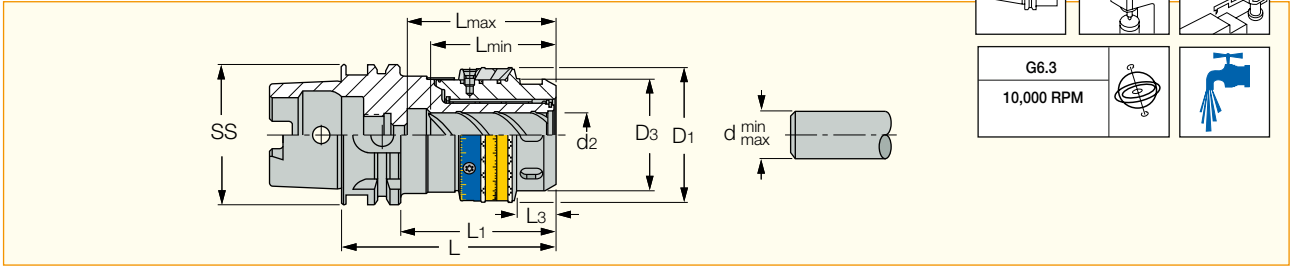
Designation	SS	d ₂	Qty	d Range
KIT HSK A63 MAXIN20X95-6	63	20.00	6	6,8,10,12,14,16
KIT HSK A63MAXIN32X113-7	63	32.00	7	6,8,10,12,16,20,25
KIT HSK A100MAXIN20X115-6	100	20.00	6	6,8,10,12,14,16

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately). • Each kit contains one power chuck, a set of SC-SPR collets, extraction hook and wrench.

MAXIN (BIN) • HSK

HSK A-MAXIN-BIN (BALANCIN)

Balanceable Power Chucks with HSK DIN69893 Form A Tapered Shanks



Designation	SS	d ₂ ⁽¹⁾	d _{min} ⁽²⁾	D ₃	D ₁	L	L ₁	L ₃	L _{min}	L _{max}	Kg
HSK A 63 MAXIN 20X95BIN	63	20.00	6.0	51.00	61.0	95.00	69.0	17.50	56.0	66.0	1.00
HSK A 63 MAXIN 32X113BIN	63	32.00	6.0	69.00	80.0	113.00	87.0	24.90	70.0	85.0	1.32
HSK A 100 MAXIN 20X115BIN	100	20.00	6.0	51.00	61.0	115.00	86.0	17.50	56.0	69.0	2.63
HSK A 100 MAXIN 32X110BIN	100	32.00	6.0	69.00	80.0	110.00	81.0	24.90	70.0	78.0	2.75

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately). • Use of d_{max} diameter tools provides best performance as collets reduce gripping force by 25% • First clamp the tool inside the chuck and then improve the system's balance by adjusting the balancing rings

⁽¹⁾ Without a collet ⁽²⁾ By using a reduction collet

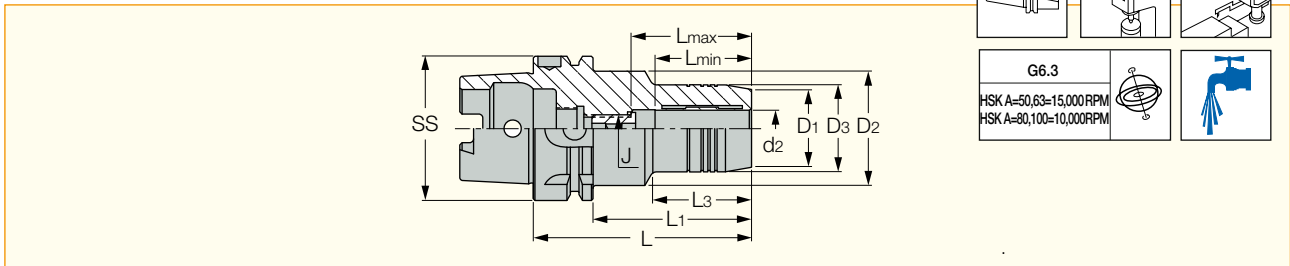
For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

HYDROFIT • HSK

HOLDING LINE

HSK A-HYDRO

Hydraulic Chucks with HSK DIN69893 Form A Tapered Shanks



Designation	SS	d ₂	D ₁	D ₃	D ₂	L	L ₁	L ₃	L _{min}	L _{max}	J	Kg
HSK A 63 HYDRO 6X80	63	6.00	23.0	26.00	50.00	80.00	54.0	33.00	27.0	37.0	M5	1.10
HSK A 63 HYDRO 8X80	63	8.00	25.0	28.00	50.00	80.00	54.0	33.00	27.0	37.0	M6	1.11
HSK A 63 HYDRO 10X85	63	10.00	27.0	30.00	50.00	85.00	59.0	39.00	32.0	42.0	M8X1	1.13
HSK A 63 HYDRO 12X90	63	12.00	29.0	32.00	50.00	90.00	64.0	44.00	37.0	47.0	M10X1	1.18
HSK A 63 HYDRO 14X90	63	14.00	30.0	34.00	50.00	90.00	64.0	46.00	37.0	47.0	M10X1	1.13
HSK A 63 HYDRO 16X95	63	16.00	34.0	38.00	50.00	95.00	69.0	52.00	42.0	52.0	M12X1	1.29
HSK A 63 HYDRO 18X95	63	18.00	36.0	40.00	50.00	95.00	69.0	52.00	42.0	52.0	M12X1	1.32
HSK A 63 HYDRO 20X100	63	20.00	38.0	42.00	50.00	100.00	74.0	58.00	42.0	52.0	M16X1	1.32
HSK A 63 HYDRO 25X120	63	25.00	46.0	50.00	50.00	120.00	94.0	94.00	48.0	58.0	M16X1	1.85
HSK A 63 HYDRO 32X125	63	32.00	56.0	60.00	50.00	125.00	99.0	83.00	52.0	62.0	M16X1	2.32
HSK A 80 HYDRO 6X85	80	6.00	23.0	26.00	50.00	85.00	59.0	37.00	27.0	37.0	M5	1.25
HSK A 80 HYDRO 10X90	80	10.00	27.0	30.00	50.00	90.00	64.0	42.00	32.0	42.0	M8X1	2.30
HSK A 80 HYDRO 14X95	80	14.00	30.0	34.00	50.00	95.00	69.0	47.00	37.0	47.0	M10X1	0.01
HSK A 80 HYDRO 16X100	80	16.00	34.0	38.00	50.00	100.00	74.0	52.00	42.0	52.0	M12X1	1.98
HSK A 80 HYDRO 18X100	80	18.00	36.0	40.00	50.00	100.00	74.0	52.00	42.0	52.0	M12X1	1.92
HSK A 80 HYDRO 20X105	80	20.00	38.0	42.00	50.00	105.00	79.0	52.00	42.0	52.0	M16X1	2.09
HSK A 80 HYDRO 25X115	80	25.00	46.0	50.00	50.00	115.00	89.0	58.00	48.0	58.0	M16X1	2.37
HSK A 80 HYDRO 32X120	80	32.00	56.0	60.00	50.00	120.00	94.0	62.00	52.0	62.0	M16X1	0.00
HSK A 100 HYDRO 6X85	100	6.00	23.0	26.00	50.00	85.00	56.0	29.00	27.0	37.0	M5	2.58
HSK A 100 HYDRO 8X85	100	8.00	25.0	28.00	50.00	85.00	56.0	29.00	27.0	37.0	M6	2.56
HSK A 100 HYDRO 10X90	100	10.00	27.0	30.00	50.00	90.00	61.0	35.00	32.0	42.0	M8X1	2.56
HSK A 100 HYDRO 12X95	100	12.00	29.0	32.00	50.00	95.00	66.0	40.00	37.0	47.0	M10X1	2.61
HSK A 100 HYDRO 14X95	100	14.00	30.0	34.00	63.00	95.00	66.0	42.00	37.0	47.0	M10X1	2.87
HSK A 100 HYDRO 16X100	100	16.00	34.0	38.00	50.00	100.00	71.0	47.00	42.0	52.0	M12X1	2.73
HSK A 100 HYDRO 18X100	100	18.00	36.0	40.00	50.00	100.00	71.0	48.00	42.0	52.0	M12X1	2.76
HSK A 100 HYDRO 20X105	100	20.00	38.0	42.00	63.00	105.00	76.0	54.00	42.0	52.0	M16X1	2.84
HSK A 100 HYDRO 25X115	100	25.00	46.0	50.00	63.00	115.00	86.0	51.00	48.0	58.0	M16X1	3.47
HSK A 100 HYDRO 32X120	100	32.00	56.0	60.00	63.00	120.00	91.0	59.00	52.0	62.0	M16X1	3.76

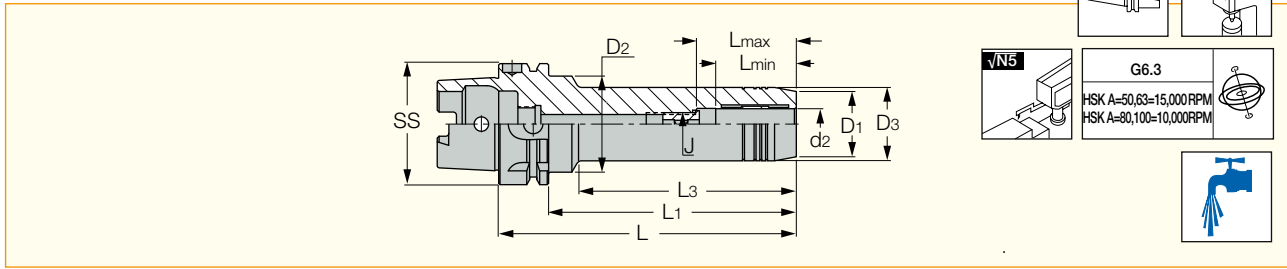
• Chucking forces will be reduced by 25% if reduction sleeves are used. • A cooling tube must be used with coolant through HSK spindles (ordered separately). • Reduction sleeves are available for 12, 20, 25 and 32 mm bore diameters (must be ordered separately). • Clamping wrench (wrench HYDRO HEX 4) and test bar should be ordered separately.

For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

Quick Change
High Precision
Tools and Holders for
MAXIMUM
MACHINING PERFORMANCE

HSK A-HYDRO (long)

Long Projection Hydraulic Chucks with HSK DIN69893 Form A Tapered Shanks



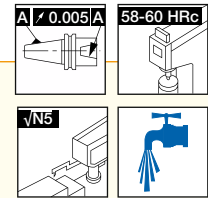
Designation	SS	d ₂	D ₁	D ₃	D ₂	L	L ₁	L ₃	L _{min}	L _{max}	J	Kg
HSK A 63 HYDRO 6X150	63	6.00	23.0	26.00	50.00	150.00	124.0	103.00	27.0	37.0	M5	1.36
HSK A 63 HYDRO 6X200	63	6.00	23.0	26.00	50.00	200.00	174.0	153.00	27.0	37.0	M5	0.12
HSK A 63 HYDRO 8X150	63	8.00	25.0	28.00	50.00	150.00	124.0	104.00	27.0	37.0	M6	1.41
HSK A 63 HYDRO 8X200	63	8.00	25.0	28.00	50.00	200.00	174.0	154.00	27.0	37.0	M6	1.68
HSK A 63 HYDRO 10X150	63	10.00	27.0	30.00	50.00	150.00	124.0	104.00	32.0	42.0	M8X1	1.45
HSK A 63 HYDRO 10X200	63	10.00	27.0	30.00	50.00	200.00	174.0	154.00	32.0	42.0	M8X1	1.74
HSK A 63 HYDRO 12X150	63	12.00	29.0	32.00	50.00	150.00	124.0	105.00	37.0	47.0	M10X1	1.52
HSK A 63 HYDRO 12X200	63	12.00	29.0	32.00	50.00	200.00	174.0	155.00	37.0	47.0	M10X1	1.83
HSK A 63 HYDRO 14X150	63	14.00	30.0	34.00	50.00	150.00	124.0	105.00	37.0	47.0	M10X1	1.59
HSK A 63 HYDRO 14X200	63	14.00	30.0	34.00	50.00	200.00	174.0	155.00	37.0	47.0	M10X1	1.95
HSK A 63 HYDRO 16X150	63	16.00	34.0	38.00	50.00	150.00	124.0	106.50	42.0	52.0	M12X1	1.77
HSK A 63 HYDRO 16X200	63	16.00	34.0	38.00	50.00	200.00	174.0	156.50	42.0	52.0	M12X1	0.00
HSK A 63 HYDRO 18X150	63	18.00	36.0	40.00	50.00	150.00	124.0	107.00	42.0	52.0	M12X1	1.81
HSK A 63 HYDRO 18X200	63	18.00	36.0	40.00	50.00	200.00	174.0	157.00	42.0	52.0	M12X1	0.00
HSK A 63 HYDRO 20X150	63	20.00	38.0	42.00	50.00	150.00	124.0	108.00	42.0	52.0	M12X1	0.00
HSK A 63 HYDRO 20X200	63	20.00	38.0	42.00	50.00	200.00	174.0	158.00	42.0	52.0	M12X1	2.44
HSK A 63 HYDRO 25X150	63	25.00	46.0	50.00	50.00	150.00	124.0	-	48.0	58.0	M16X1	2.56
HSK A 63 HYDRO 25X200	63	25.00	46.0	50.00	50.00	200.00	174.0	-	48.0	58.0	M16X1	3.05
HSK A 100 HYDRO 6X150	100	6.00	23.0	26.00	50.00	150.00	121.0	100.00	27.0	37.0	M5	2.75
HSK A 100 HYDRO 6X200	100	6.00	23.0	26.00	63.00	200.00	171.0	144.00	27.0	37.0	M5	3.19
HSK A 100 HYDRO 8X150	100	8.00	25.0	28.00	63.00	150.00	121.0	94.50	27.0	37.0	M6	3.07
HSK A 100 HYDRO 8X200	100	8.00	25.0	28.00	63.00	200.00	171.0	144.50	27.0	37.0	M6	3.29
HSK A 100 HYDRO 10X150	100	10.00	27.0	30.00	63.00	150.00	121.0	95.00	32.0	42.0	M8X1	3.11
HSK A 100 HYDRO 10X200	100	10.00	27.0	30.00	50.00	200.00	171.0	151.00	32.0	42.0	M8X1	3.12
HSK A 100 HYDRO 12X150	100	12.00	29.0	32.00	63.00	150.00	121.0	95.50	37.0	47.0	M10X1	3.17
HSK A 100 HYDRO 12X200	100	12.00	29.0	32.00	63.00	200.00	171.0	145.50	37.0	47.0	M10X1	3.48
HSK A 100 HYDRO 14X150	100	14.00	30.0	34.00	50.00	150.00	121.0	97.00	37.0	47.0	M10X1	3.05
HSK A 100 HYDRO 14X200	100	14.00	30.0	34.00	50.00	200.00	171.0	147.00	37.0	47.0	M10X1	3.35
HSK A 100 HYDRO 16X150	100	16.00	38.0	38.00	63.00	150.00	121.0	97.50	42.0	52.0	M12X1	3.31
HSK A 100 HYDRO 16X200	100	16.00	38.0	38.00	63.00	200.00	171.0	147.50	42.0	52.0	M12X1	3.80
HSK A 100 HYDRO 18X150	100	18.00	36.0	40.00	50.00	150.00	121.0	107.00	42.0	52.0	M12X1	3.22
HSK A 100 HYDRO 18X200	100	18.00	36.0	40.00	63.00	200.00	171.0	148.00	42.0	52.0	M12X1	3.89
HSK A 100 HYDRO 20X150	100	20.00	38.0	42.00	63.00	150.00	121.0	99.00	42.0	52.0	M12X1	3.47
HSK A 100 HYDRO 20X200	100	20.00	38.0	42.00	63.00	200.00	171.0	149.00	42.0	52.0	M12X1	4.02
HSK A 100 HYDRO 25X150	100	25.00	46.0	50.00	50.00	150.00	121.0	-	48.0	58.0	M16X1	3.65
HSK A 100 HYDRO 25X200	100	25.00	46.0	50.00	63.00	200.00	171.0	136.00	48.0	58.0	M16X1	4.71
HSK A 100 HYDRO 32X200	100	32.00	56.0	60.00	60.00	200.00	171.0	-	52.0	62.0	M16X1	5.44

- Chucking forces will be reduced by 25% if reduction sleeves are used.
- A cooling tube must be used with coolant through HSK spindles (ordered separately).
- Reduction sleeves are available for 12, 20, 25 and 32 mm bore diameters (must be ordered separately).
- Clamping wrench (wrench HYDRO HEX4) and test bar should be ordered separately.

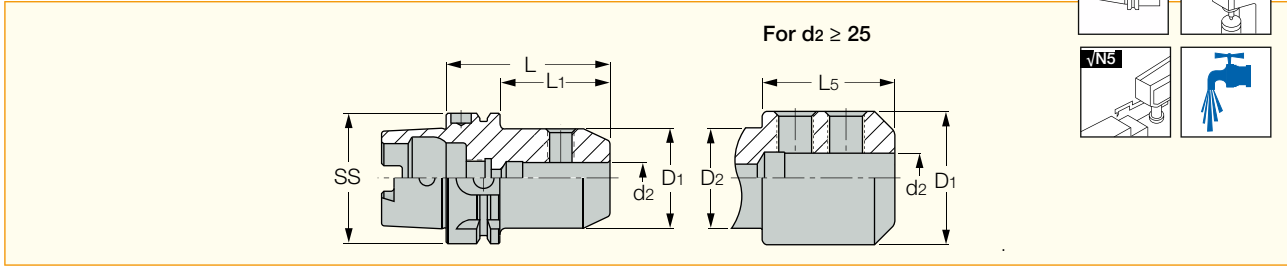
For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

HSK A-EM (DIN 1835 Form B)

DIN6359 Side Clamp Holders for DIN 1835 Form B Weldon Shanks with HSK
DIN69893 Form A Tapered Shanks



Quick Change
High Precision
Tools and Holders for
MAXIMUM
MACHINING PERFORMANCE



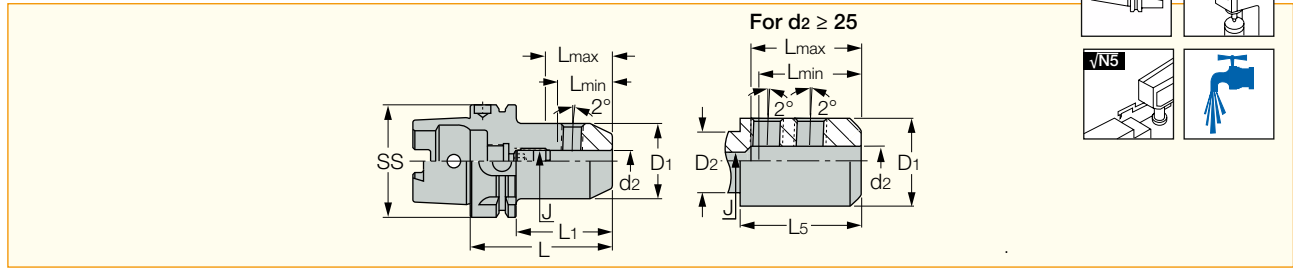
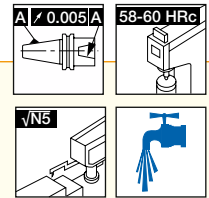
Designation	SS	d ₂	D ₁	D ₂	L	L ₁	L ₅	Kg
HSK A 63 EM 6X 65	63	6.00	25.0	-	65.00	39.0	-	0.77
HSK A 63 EM 8X 65	63	8.00	28.0	-	65.00	39.0	-	0.79
HSK A 63 EM 10X 65	63	10.00	35.0	-	65.00	39.0	-	0.88
HSK A 63 EM 12X 80	63	12.00	42.0	-	80.00	54.0	-	1.13
HSK A 63 EM 14X 80	63	14.00	44.0	-	80.00	54.0	-	1.16
HSK A 63 EM 16X 80	63	16.00	48.0	-	80.00	54.0	-	1.28
HSK A 63 EM 18X 80	63	18.00	50.0	-	80.00	54.0	-	1.29
HSK A 63 EM 20X 80	63	20.00	52.0	-	80.00	54.0	-	1.32
HSK A 63 EM 25X110	63	25.00	65.0	52.00	110.00	84.0	65.50	2.21
HSK A 63 EM 32X110	63	32.00	72.0	52.00	110.00	84.0	65.50	2.41
HSK A 100 EM 8X 80	100	8.00	28.0	-	80.00	51.0	-	2.24
HSK A 100 EM 10X 80	100	10.00	35.0	-	80.00	51.0	-	2.36
HSK A 100 EM 12X 80	100	12.00	42.0	-	80.00	51.0	-	2.45
HSK A 100 EM 14X 80	100	14.00	44.0	-	80.00	51.0	-	2.50
HSK A 100 EM 16X100	100	16.00	48.0	-	100.00	71.0	-	2.86
HSK A 100 EM 18X100	100	18.00	50.0	-	100.00	71.0	-	2.93
HSK A 100 EM 20X100	100	20.00	52.0	-	100.00	71.0	-	2.93
HSK A 100 EM 25X100	100	25.00	65.0	-	100.00	71.0	-	3.45
HSK A 100 EM 32X100	100	32.00	72.0	-	100.00	71.0	-	3.67
HSK A 100 EM 40X110	100	40.00	85.0	-	110.00	81.0	-	4.50

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

HSK A-EM (DIN 1835 Form E)

DIN6359 Side Clamp Holders for DIN 1835 Form E Whistle Notch Shanks with HSK DIN69893 Form A Tapered Shanks



Designation	SS	d ₂	D ₁	D ₂	L	L ₁	L ₅	L _{min}	L _{max}	J ⁽¹⁾	Key ⁽²⁾	Kg
HSK A 63 EM 6X 80 E	63	6.00	25.0	-	80.00	54.0	-	32.0	40.0	M5	2.50	0.82
HSK A 63 EM 8X 80 E	63	8.00	28.0	-	80.00	54.0	-	35.0	40.0	M6	3.00	0.86
HSK A 63 EM 10X 80 E	63	10.00	35.0	-	80.00	54.0	-	39.0	44.0	M8	4.00	1.00
HSK A 63 EM 12X 90 E	63	12.00	42.0	-	90.00	64.0	-	44.0	49.0	M10	5.00	1.23
HSK A 63 EM 14X 90 E	63	14.00	44.0	-	90.00	64.0	-	44.0	49.0	M10	5.00	1.29
HSK A 63 EM 16X100 E	63	16.00	48.0	-	100.00	74.0	-	47.0	52.0	M12	6.00	1.51
HSK A 63 EM 18X100 E	63	18.00	50.0	-	100.00	74.0	-	47.0	55.0	M12	6.00	1.60
HSK A 63 EM 20X100 E	63	20.00	52.0	-	100.00	74.0	-	49.0	54.0	M16	8.00	1.65
HSK A 63 EM 25X110 E	63	25.00	65.0	52.80	110.00	84.0	65.50	54.0	61.0	M16	8.00	2.23
HSK A 63 EM 32X110 E	63	32.00	72.0	52.80	110.00	84.0	65.50	58.0	63.0	M20X1.5	10.00	2.43
HSK A 100 EM 6X 90 E	100	6.00	25.0	-	90.00	61.0	-	35.0	40.0	M5	2.50	2.27
HSK A 100 EM 8X 90 E	100	8.00	28.0	-	90.00	61.0	-	35.0	40.0	M6	3.00	2.29
HSK A 100 EM 10X 90 E	100	10.00	35.0	-	90.00	61.0	-	39.0	44.0	M8	4.00	2.44
HSK A 100 EM 12X100 E	100	12.00	42.0	-	100.00	71.0	-	44.0	54.0	M10	5.00	2.74
HSK A 100 EM 14X100 E	100	14.00	44.0	-	100.00	71.0	-	44.0	54.0	M10	5.00	2.71
HSK A 100 EM 16X100 E	100	16.00	48.0	-	100.00	71.0	-	47.0	52.0	M12	6.00	2.88
HSK A 100 EM 18X100 E	100	18.00	50.0	-	100.00	71.0	-	47.0	52.0	M12	6.00	2.93
HSK A 100 EM 20X110 E	100	20.00	52.0	-	110.00	81.0	-	49.0	54.0	M16	8.00	3.10
HSK A 100 EM 25X120 E	100	25.00	65.0	-	120.00	91.0	-	54.0	61.0	M20X1.5	10.00	3.88
HSK A 100 EM 32X120 E	100	32.00	72.0	-	120.00	91.0	-	58.0	63.0	M20X1.5	10.00	4.32

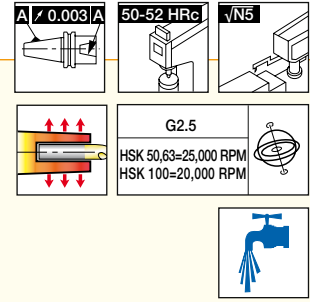
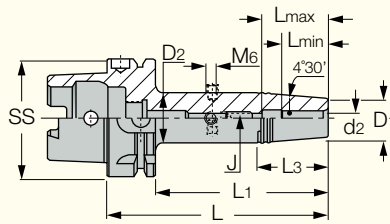
• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

⁽¹⁾ Adjustment screw has an internal coolant hole. ⁽²⁾ Adjustment screw hexagon key size

For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

HSK A-SRKIN

Thermal Chucks with HSK DIN9893 Form A Tapered Shanks, for Solid Carbide and HSS Tools



Quick Change High Precision Tools and Holders for **MAXIMUM MACHINING PERFORMANCE**

Designation	SS	d ₂	D ₁	D ₂	L	L ₁	L ₃	L _{min}	L _{max}	J	Key ⁽¹⁾	Kg
HSK A 63 SRKIN 6X120	63	6.00	21.0	27.00	120.00	94.0	38.00	25.0	36.0	M5	2.50	1.00
HSK A 63 SRKIN 6X160	63	6.00	21.0	27.00	160.00	134.0	38.00	25.0	36.0	M5	2.50	1.19
HSK A 63 SRKIN 6X80	63	6.00	21.0	27.00	80.00	54.0	38.00	25.0	36.0	M5	2.50	0.83
HSK A 63 SRKIN 8X120	63	8.00	21.0	27.00	120.00	94.0	38.00	25.0	36.0	M6	3.00	0.98
HSK A 63 SRKIN 8X160	63	8.00	21.0	27.00	160.00	134.0	38.00	25.0	36.0	M6	3.00	1.16
HSK A 63 SRKIN 8X80	63	8.00	21.0	27.00	80.00	54.0	38.00	25.0	36.0	M6	3.00	0.92
HSK A 63 SRKIN 10X 85	63	10.00	24.0	32.00	85.00	59.0	51.00	31.0	42.0	M8	4.00	0.89
HSK A 63 SRKIN 10X120	63	10.00	24.0	32.00	120.00	94.0	51.00	31.0	42.0	M8	4.00	1.11
HSK A 63 SRKIN 10X160	63	10.00	24.0	32.00	160.00	134.0	51.00	31.0	42.0	M8	4.00	1.36
HSK A 63 SRKIN 12X120	63	12.00	24.0	32.00	120.00	94.0	51.00	36.0	47.0	M10	5.00	1.00
HSK A 63 SRKIN 12X160	63	12.00	24.0	32.00	160.00	134.0	51.00	36.0	47.0	M10	5.00	1.33
HSK A 63 SRKIN 12X90	63	12.00	24.0	32.00	90.00	64.0	51.00	36.0	42.0	M8	4.00	0.91
HSK A 63 SRKIN 14X120	63	14.00	27.0	34.00	120.00	94.0	45.00	36.0	47.0	M10	5.00	1.15
HSK A 63 SRKIN 14X160	63	14.00	27.0	34.00	160.00	134.0	45.00	36.0	47.0	M10	5.00	1.44
HSK A 63 SRKIN 14X90	63	14.00	27.0	34.00	90.00	64.0	45.00	36.0	47.0	M10	5.00	0.94
HSK A 63 SRKIN 16X120	63	16.00	27.0	34.00	120.00	94.0	44.00	39.0	50.0	M12	6.00	1.11
HSK A 63 SRKIN 16X160	63	16.00	27.0	34.00	160.00	134.0	44.00	39.0	50.0	M12	6.00	1.41
HSK A 63 SRKIN 16X75	63	16.00	27.0	34.00	75.00	49.0	-	39.0	50.0	-	-	0.85
HSK A 63 SRKIN 16X95	63	16.00	27.0	34.00	95.00	69.0	44.00	39.0	50.0	M12	6.00	0.96
HSK A 63 SRKIN 18X120	63	18.00	33.0	42.00	120.00	94.0	57.00	39.0	50.0	M12	6.00	3.14
HSK A 63 SRKIN 18X160	63	18.00	33.0	42.00	160.00	134.0	57.00	39.0	50.0	M12	6.00	1.82
HSK A 63 SRKIN 18X95	63	18.00	33.0	42.00	95.00	69.0	57.00	39.0	50.0	M12	6.00	1.14
HSK A 63 SRKIN 20X100	63	20.00	33.0	42.00	100.00	74.0	57.00	41.0	52.0	M16	8.00	1.11
HSK A 63 SRKIN 20X120	63	20.00	33.0	42.00	120.00	94.0	57.00	41.0	52.0	M16	8.00	1.33
HSK A 63 SRKIN 20X160	63	20.00	33.0	42.00	160.00	134.0	57.00	41.0	52.0	M16	8.00	1.77
HSK A 63 SRKIN 20X75	63	20.00	33.0	41.00	75.00	49.0	-	41.0	50.0	-	-	0.93
HSK A 63 SRKIN 25X115	63	25.00	44.0	53.00	115.00	89.0	55.00	47.0	58.0	M16	8.00	1.70
HSK A 63 SRKIN 25X85	63	25.00	44.0	53.00	85.00	59.0	-	47.0	58.0	-	-	1.27
HSK A 63 SRKIN 32X120	63	32.00	44.0	53.00	120.00	94.0	55.00	47.0	58.0	M16	8.00	1.68
HSK A 63 SRKIN 32X85	63	32.00	44.0	53.00	85.00	59.0	-	47.0	58.0	-	-	1.11
HSK A 100 SRKIN 6X 85	100	6.00	21.0	27.00	85.00	56.0	38.00	25.0	36.0	M5	2.50	2.18
HSK A 100 SRKIN 6X120	100	6.00	21.0	27.00	120.00	91.0	38.00	25.0	36.0	M5	2.50	2.32
HSK A 100 SRKIN 6X160	100	6.00	21.0	27.00	160.00	131.0	38.00	25.0	36.0	M6	3.00	2.54
HSK A 100 SRKIN 8X 85	100	8.00	21.0	27.00	85.00	56.0	38.00	25.0	36.0	M6	3.00	2.16
HSK A 100 SRKIN 8X120	100	8.00	21.0	27.00	120.00	91.0	38.00	25.0	36.0	M6	3.00	2.36
HSK A 100 SRKIN 8X160	100	8.00	21.0	27.00	160.00	131.0	38.00	25.0	36.0	M6	3.00	2.55
HSK A 100 SRKIN 10X 90	100	10.00	24.0	32.00	90.00	61.0	51.00	31.0	42.0	M8	4.00	2.24
HSK A 100 SRKIN 10X120	100	10.00	24.0	32.00	120.00	91.0	51.00	31.0	42.0	M8	4.00	2.43
HSK A 100 SRKIN 10X160	100	10.00	24.0	32.00	160.00	131.0	51.00	31.0	42.0	M8	4.00	2.71
HSK A 100 SRKIN 12X 95	100	12.00	24.0	32.00	95.00	66.0	51.00	36.0	47.0	M10	5.00	2.28
HSK A 100 SRKIN 12X120	100	12.00	24.0	32.00	120.00	91.0	51.00	36.0	47.0	M10	5.00	2.47
HSK A 100 SRKIN 12X160	100	12.00	24.0	32.00	160.00	131.0	51.00	36.0	47.0	M10	5.00	2.70
HSK A 100 SRKIN 14X 95	100	14.00	27.0	34.00	95.00	66.0	45.00	36.0	47.0	M10	5.00	2.27
HSK A 100 SRKIN 14X120	100	14.00	27.0	34.00	120.00	91.0	45.00	36.0	47.0	M10	5.00	2.51
HSK A 100 SRKIN 14X160	100	14.00	27.0	34.00	160.00	131.0	45.00	36.0	47.0	M10	5.00	2.79
HSK A 100 SRKIN 16X100	100	16.00	27.0	34.00	100.00	71.0	45.00	39.0	50.0	M12	6.00	2.35
HSK A 100 SRKIN 16X120	100	16.00	27.0	34.00	120.00	91.0	45.00	39.0	50.0	M12	6.00	2.50
HSK A 100 SRKIN 16X160	100	16.00	27.0	34.00	160.00	131.0	45.00	39.0	50.0	M12	6.00	2.74
HSK A 100 SRKIN 18X100	100	18.00	33.0	42.00	100.00	71.0	57.00	39.0	50.0	M12	6.00	2.50
HSK A 100 SRKIN 18X160	100	18.00	33.0	42.00	160.00	131.0	57.00	39.0	50.0	M12	6.00	3.14
HSK A 100 SRKIN 20X105	100	20.00	33.0	42.00	105.00	76.0	57.00	41.0	52.0	M16	8.00	2.50
HSK A 100 SRKIN 20X120	100	20.00	33.0	42.00	120.00	91.0	57.00	41.0	52.0	M16	8.00	1.20
HSK A 100 SRKIN 20X160	100	20.00	33.0	42.00	160.00	131.0	57.00	41.0	52.0	M16	8.00	3.22
HSK A 100 SRKIN 25X115	100	25.00	44.0	53.00	115.00	86.0	57.00	47.0	58.0	M16	8.00	3.04
HSK A 100 SRKIN 32X120	100	32.00	44.0	53.00	120.00	91.0	57.00	47.0	58.0	M16	8.00	2.99

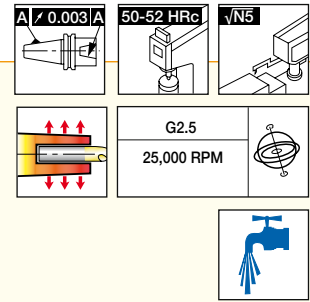
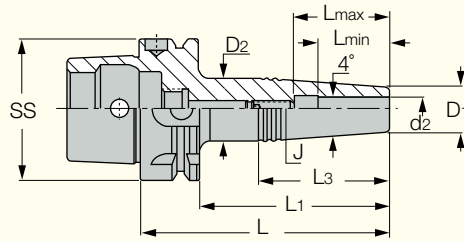
• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately). • Use only inductive heating device for SRKIN holders.

⁽¹⁾ Adjustment screw hexagon key size

For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

HSK A-SRK

Thermal Chuck Collets with HSK DIN69893 Form A Tapered Shanks, for Solid Carbide Tools Only



Designation	SS	d ₂	D ₁	D ₂	L	L ₁	L ₃	L _{min}	L _{max}	J	Key ⁽¹⁾	Kg
HSK A 63 SRK 3X50	63	3.00	10.0	17.00	76.00	50.0	-	10.0	16.0	M6	3.00	0.68
HSK A 63 SRK 3X85	63	3.00	10.0	21.00	111.00	85.0	79.00	10.0	16.0	M6	3.00	0.74
HSK A 63 SRK 4X50	63	4.00	10.0	17.00	76.00	50.0	-	12.0	18.0	M6	3.00	0.68
HSK A 63 SRK 4X85	63	4.00	10.0	21.00	111.00	85.0	79.00	12.0	18.0	M6	3.00	0.73
HSK A 63 SRK 5X50	63	5.00	10.0	17.00	76.00	50.0	-	15.0	21.0	M6	3.00	0.68
HSK A 63 SRK 5X85	63	5.00	10.0	21.00	111.00	85.0	79.00	15.0	21.0	M6	3.00	0.76
HSK A 63 SRK 6X50	63	6.00	11.0	18.00	76.00	50.0	-	18.0	24.0	M8	4.00	0.67
HSK A 63 SRK 6X85	63	6.00	11.0	22.00	111.00	85.0	79.00	18.0	24.0	M8	4.00	0.74
HSK A 63 SRK 8X50	63	8.00	14.0	20.00	76.00	50.0	43.00	25.0	36.0	M6	3.00	0.71
HSK A 63 SRK 8X85	63	8.00	14.0	23.00	111.00	85.0	64.00	25.0	36.0	M6	3.00	0.80
HSK A 63 SRK 10X50	63	10.00	16.0	23.00	76.00	50.0	-	30.0	41.0	M8	4.00	0.72
HSK A 63 SRK 10X85	63	10.00	16.0	26.00	111.00	85.0	72.00	30.0	41.0	M8	4.00	0.82
HSK A 63 SRK 12X50	63	12.00	20.0	27.00	76.00	50.0	-	32.0	43.0	M8	4.00	0.75
HSK A 63 SRK 12X85	63	12.00	20.0	30.00	111.00	85.0	72.00	32.0	43.0	M8	4.00	0.92

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately). • To be used for carbide tools only. • Balanced to G2.5/25,000 RPM.

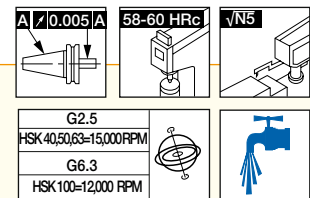
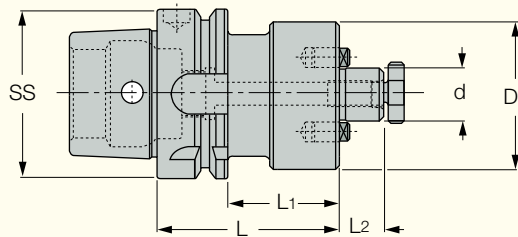
⁽¹⁾ Key for the adjustment screw.

For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

HSK

HSK A-SEM

ISO 3937 Shell Mill Holders with HSK DIN69893 Form A Tapered Shanks



Designation	SS	d	D ₁	L	L ₂	L ₁	Kg
HSK A 63 SEM 16X50	63	16.00	38.0	50.00	17.00	24.0	0.86
HSK A 63 SEM 22X50	63	22.00	47.0	50.00	19.00	24.0	0.60
HSK A 63 SEM 27X60	63	27.00	58.0	60.00	21.00	34.0	1.30
HSK A 63 SEM 32X60	63	32.00	66.0	60.00	24.00	34.0	1.41
HSK A 63 SEM 40X60	63	40.00	82.0	60.00	27.00	24.0	1.76
HSK A 100 SEM 22X 50	100	22.00	47.0	50.00	19.00	21.0	2.30
HSK A 100 SEM 27X 50	100	27.00	58.0	50.00	21.00	21.0	2.48
HSK A 100 SEM 32X 50	100	32.00	66.0	50.00	24.00	21.0	2.63
HSK A 100 SEM 40X 60	100	40.00	82.0	60.00	27.00	31.0	3.37
HSK A 100 SEM 50X 70	100	50.00	95.0	70.00	30.00	41.0	4.29

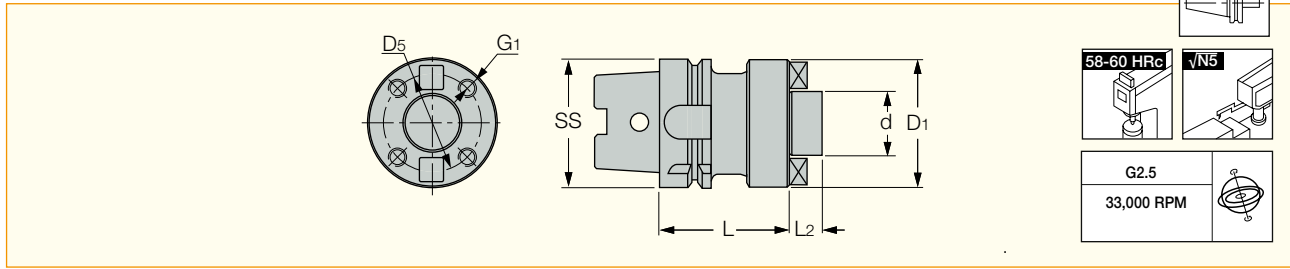
• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

HSK A-FM

DIN 6353 Face Mill Holders with HSK DIN69893 Form A Tapered Shanks

Quick Change
High Precision
Tools and Holders for
MAXIMUM
MACHINING PERFORMANCE



Designation	SS	d	D ₁	L	L ₂	D ₅	G ₁	Kg
HSK A 100 FM 60X 70	100	60.00	128.0	70.00	40.00	101.60	M16	5.77

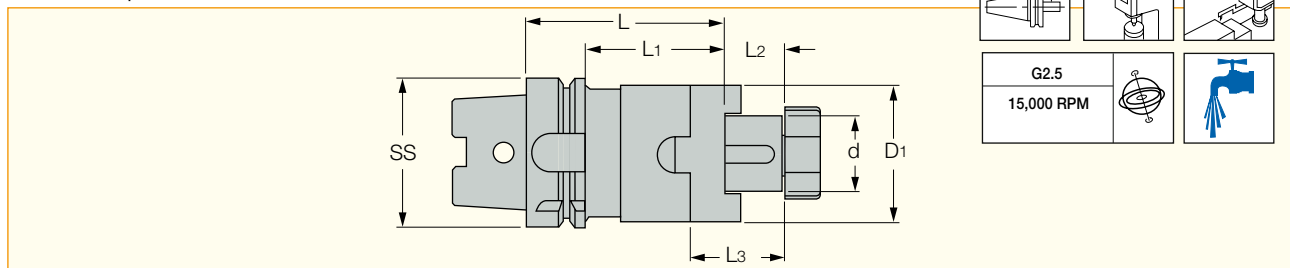
• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

HSK A-SEMC

DIN 6358 COMBI Shell Mill Holders with HSK DIN69893

Form A Tapered Shanks



Designation	SS	d	D ₁	L	L ₁	L ₂	L ₃	Kg	Mod
HSK A 63 SEMC 16X60	63	16.00	32.0	60.00	34.0	17.00	27.00	0.82	007
HSK A 63 SEMC 22X60	63	22.00	40.0	60.00	34.0	19.00	31.00	0.91	007
HSK A 63 SEMC 27X60	63	27.00	48.0	60.00	34.0	21.00	33.00	1.00	007
HSK A 63 SEMC 32X60	63	32.00	58.0	60.00	34.0	24.00	38.00	1.13	007
HSK A 63 SEMC 40X70	63	40.00	70.0	70.00	44.0	27.00	41.00	1.52	007
HSK A 100 SEMC 16X60	100	16.00	32.0	60.00	31.0	17.00	27.00	2.17	007
HSK A 100 SEMC 22X60	100	22.00	40.0	60.00	31.0	19.00	31.00	2.24	007
HSK A 100 SEMC 27X60	100	27.00	48.0	60.00	31.0	21.00	33.00	2.35	007
HSK A 100 SEMC 32X60	100	32.00	58.0	60.00	31.0	24.00	38.00	2.50	007
HSK A 100 SEMC 40X70	100	40.00	70.0	70.00	41.0	27.00	41.00	3.04	007
HSK A 100 SEMC 50X80	100	50.00	90.0	80.00	51.0	30.00	46.00	4.03	007

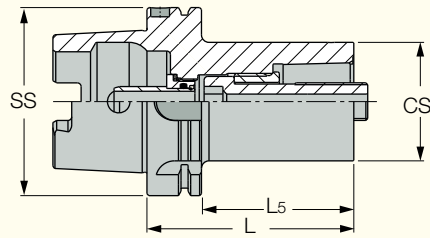
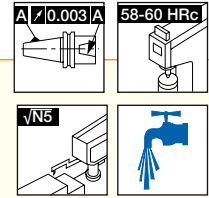
• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately). • Balanced to G2.5/15,000 RPM.

For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

CAMFIX • HSK

HSK-C#

CAMFIX (ISO 26623-1) Holders with HSK DIN69893 Form A Tapered Shanks



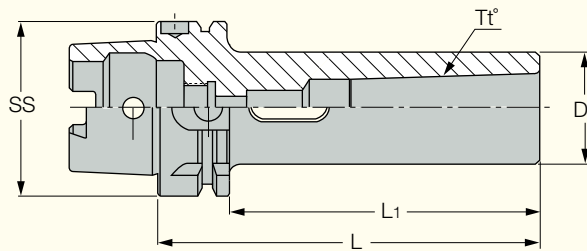
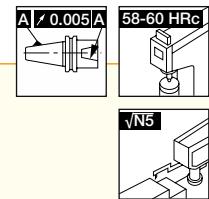
Designation	SS	CSI	L	L ₅	Kg
C5 AD HSK A63WH X90	63	50	90.00	64.00	1.44
C6 AD HSK A100WH X110	100	63	110.00	81.00	3.61
C8 AD HSK A100WH X120	100	80	120.00	91.00	4.79
C8 AD HSK A125WH X130	125	80	130.00	101.00	6.50

• Note: To enable clamping the part to be attached, first remove the cooling tube

HSK

HSK A-MT

DIN 6383/DIN228-2 Form D Tang Morse Taper Adapters with DIN 69893/A HSK Tapered Shanks



Designation	SS	T ₁ °	D ₁	L	L ₁	Kg
HSK A 63 MT1X110	63	MT1	25.0	110.00	84.0	0.92
HSK A 63 MT2X120	63	MT2	32.0	120.00	94.0	1.09
HSK A 63 MT3X140	63	MT3	40.0	140.00	114.0	1.45
HSK A 63 MT4X160	63	MT4	48.0	160.00	134.0	1.89
HSK A 100 MT1X110	100	MT1	25.0	110.00	81.0	2.27
HSK A 100 MT2X120	100	MT2	32.0	120.00	91.0	2.39
HSK A 100 MT3X150	100	MT3	40.0	150.00	121.0	2.83
HSK A 100 MT4X170	100	MT4	48.0	170.00	141.0	3.31
HSK A 100 MT5X200	100	MT5	63.0	200.00	171.0	4.60

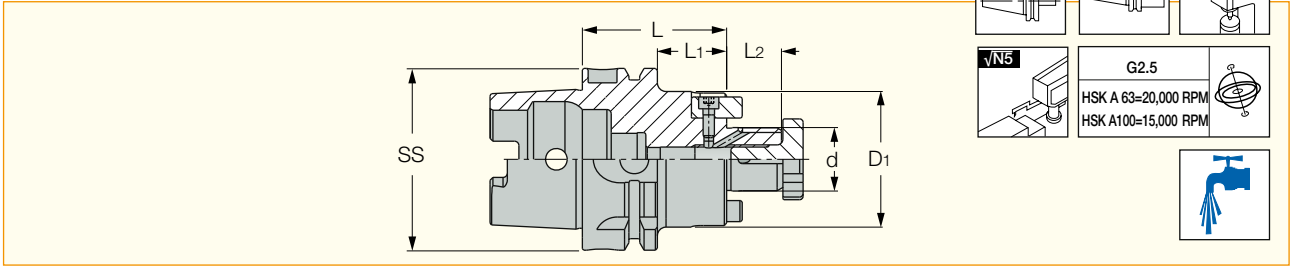
• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

HSK A-SEM-C

Shell Mill Holders with Coolant Holes and
DIN69893 form A HSK Tapered Shanks

Quick Change
High Precision
Tools and Holders for
MAXIMUM
MACHINING PERFORMANCE



Designation	SS	d	D ₁	L	L ₁	L ₂	Kg
HSK A 63 SEM 16X100C	63	16.00	38.0	100.00	74.0	17.00	1.16
HSK A 63 SEM 16X50C	63	16.00	38.0	50.00	24.0	17.00	0.84
HSK A 63 SEM 22X100C	63	22.00	47.0	100.00	74.0	19.00	1.68
HSK A 63 SEM 22X50C	63	22.00	47.0	50.00	24.0	19.00	0.97
HSK A 63 SEM 27X100C	63	27.00	58.0	100.00	74.0	21.00	2.00
HSK A 63 SEM 27X60C	63	27.00	58.0	60.00	34.0	21.00	1.28
HSK A 63 SEM 32X60C	63	32.00	66.0	60.00	34.0	24.00	1.38
HSK A 100 SEM 16X 50C	100	16.00	38.0	50.00	21.0	17.00	2.20
HSK A 100 SEM 16X100C	100	16.00	38.0	100.00	71.0	17.00	2.59
HSK A 100 SEM 22X 50C	100	22.00	47.0	50.00	21.0	19.00	1.50
HSK A 100 SEM 22X100C	100	22.00	47.0	100.00	71.0	19.00	2.94
HSK A 100 SEM 27X 50C	100	27.00	58.0	50.00	21.0	21.00	3.10
HSK A 100 SEM 27X100C	100	27.00	58.0	100.00	71.0	21.00	3.46
HSK A 100 SEM 32X 50C	100	32.00	66.0	50.00	21.0	24.00	2.60
HSK A 100 SEM 32X100 C	100	32.00	66.0	100.00	71.0	24.00	3.88

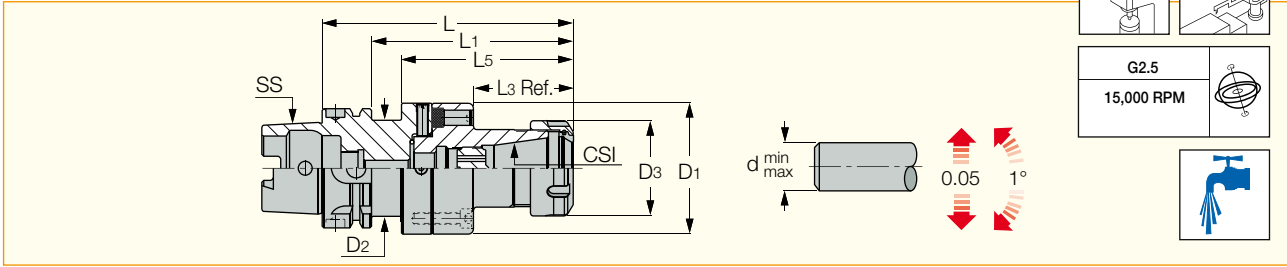
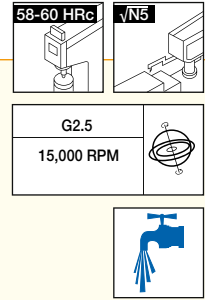
• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately). • Blanced to G2.5/ HSK A63=20,000 RPM HSK A100=15,000 RPM

For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

FINEFIT • HSK

ADJ HSK A-ER

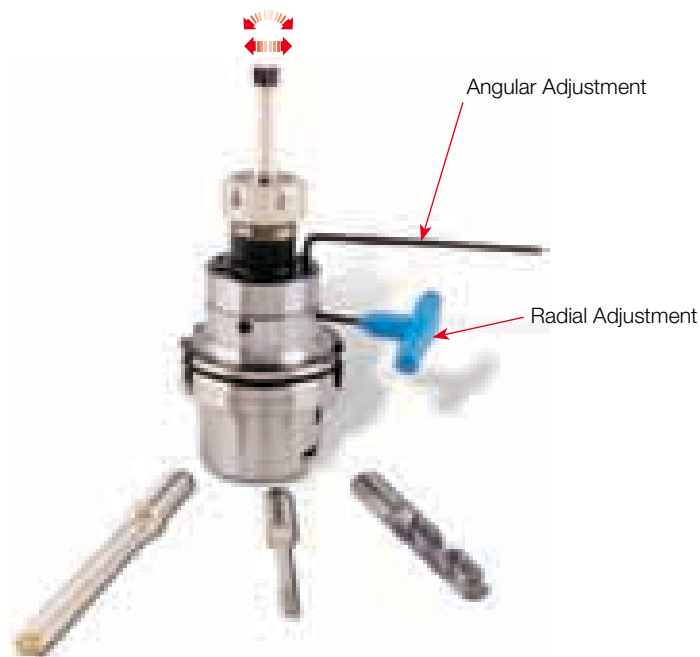
DIN6499 ER Collet Chucks with Center Alignment (FINEFIT) and HSK DIN69893/A Tapered Shanks



Designation	SS	CSI	d _{min}	d _{max}	D ₁	D ₂	D ₃	L	L ₁	L ₃	L ₅	Kg
ADJ HSK A 63 D70 ER32	63	ER32	2.0	20.0	70.0	46.00	50.00	134.50	108.5	52.50	92.50	2.25
ADJ HSK A 100 D70 ER32	100	ER32	2.0	20.0	70.0	46.00	50.00	129.50	100.5	52.50	82.50	3.64

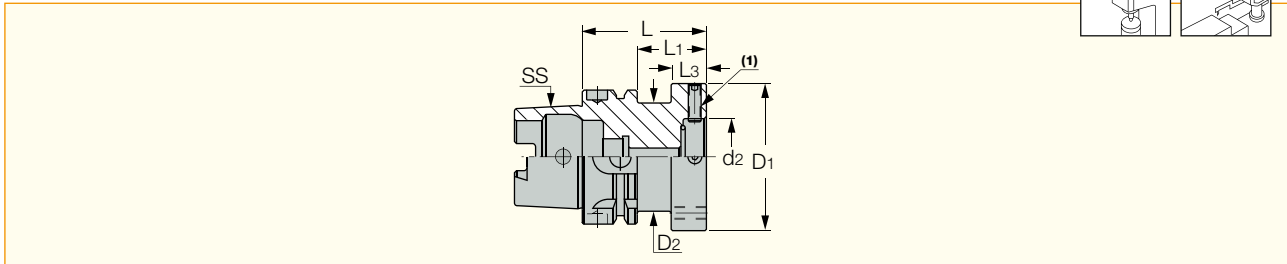
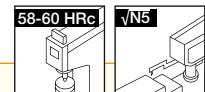
• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately). • Radial adjustment 0.1 mm. Angular adjustment 1°.

For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog



ADJ HSK A

FINEFIT Center Alignment Shank and Base with a DIN69893 HSK Tapered Shank, for Specially Tailored Toolholders



Designation	SS	L	L ₁	L ₃	d ₂	D ₁	D ₂	Kg
ADJ HSK A 63 D70	63	60.00	34.0	18.00	35.00	70.0	46.00	1.24
ADJ HSK A 100 D70	100	55.00	26.0	-	35.00	70.0	-	2.63

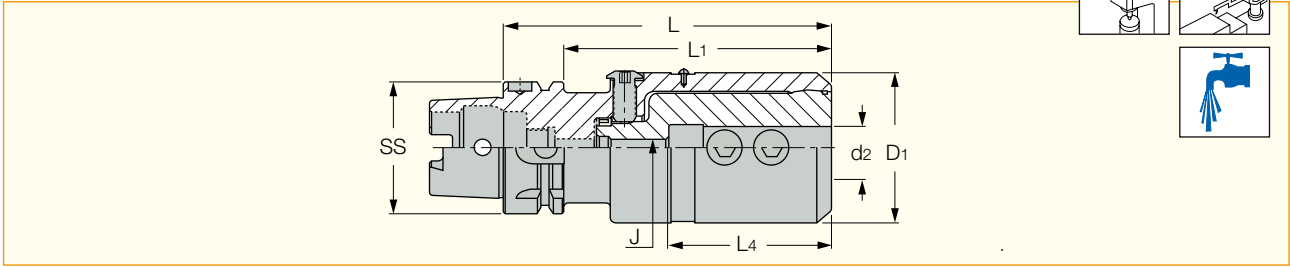
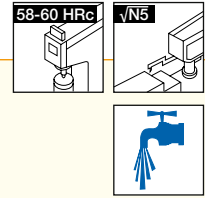
• (1) Use 4 mm hex key for screw adjustment. • A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

FITBORE • HSK

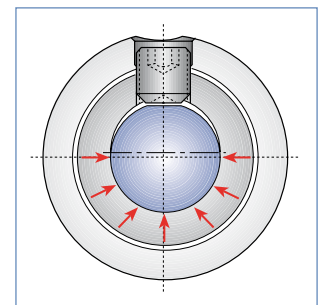
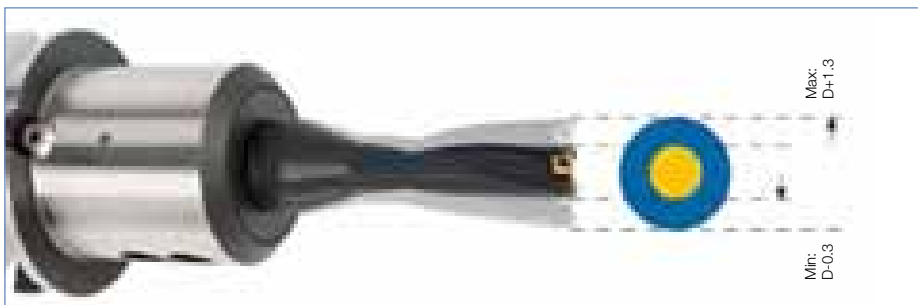
FITBORE HSK A-EM

Adjustable Drilling Diameter Holders (by center offsetting)
with HSK DIN69893/A Tapered Shanks



Designation	SS	d ₂	D ₁	L	L ₁	L ₄	J	Kg
FITBORE HSK A 63 EM25	63	25.00	72.0	142.00	116.0	71.0	M10	3.43
FITBORE HSK A 63 EM32	63	32.00	72.0	142.00	116.0	71.0	M10	3.65
FITBORE HSK A 63 EM40	63	40.00	72.0	142.00	116.0	71.0	M10	3.00

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

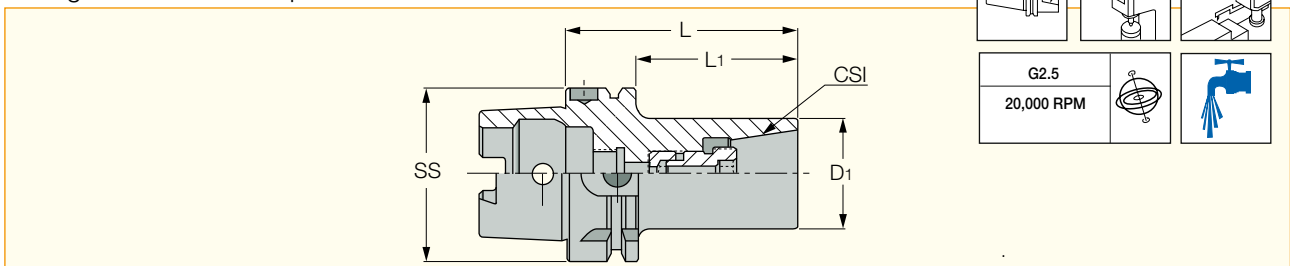
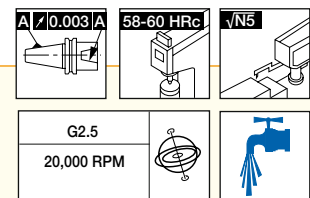


The bore's section is actually made from two shifted circular sections. The clamping screw pushes the drill shank through a narrowed opening, forcing elastic deformation of the holder. Contact is made around more than 180°, providing a high clamping force.

CLICKIN • HSK

HSK A-ER-CLICKIN

HSK DIN69893/A Tapered Shanks to CLICKIN Quick
Change Connection Adapters



Designation	SS	CSI	L	L ₁	D ₁	Kg
HSK A 63 ER32 CLICK-IN	63	32 SRF	85.00	59.0	41.0	1.06
HSK A 100 ER32 CLICK-IN	100	32 SRF	90.00	61.0	41.0	2.40

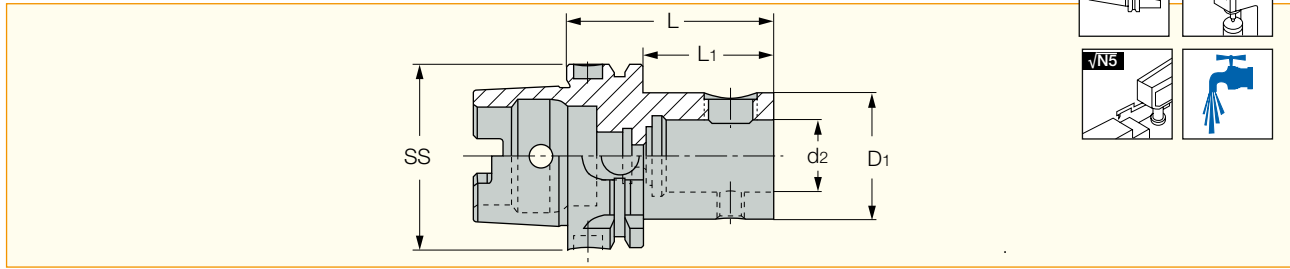
• Tightening torque: 24 Kgxm • A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).
• Balanced to G2.5/20,000 RPM.

For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

CLICKFIT • HSK

HSK A-CF (CLICKFIT)

Modular Connections (CLICKFIT) with HSK DIN69893/A Tapered Shanks



Designation	SS	d ₂	L	L ₁	D ₁	Kg
HSK A 63 CF4-S	63	25.00	70.00	44.0	44.5	1.00
HSK A 80 CF4-S	80	25.00	73.00	47.0	44.5	1.50
HSK A 100 CF4-S	100	25.00	76.00	47.0	44.5	2.42

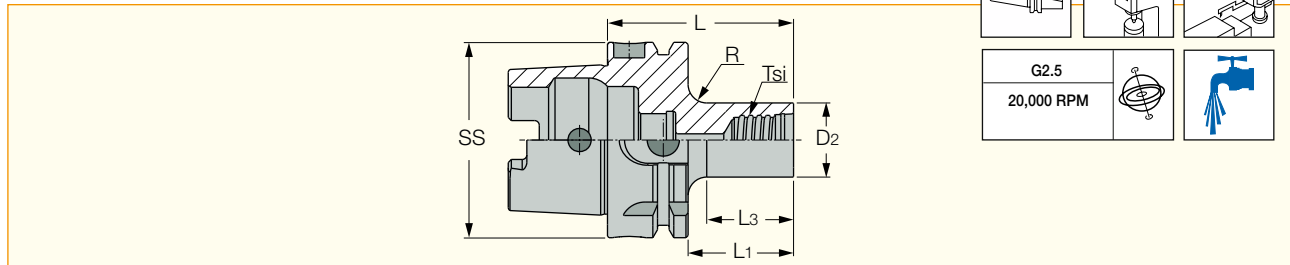
• Tightening torque: 6 Kgxm • A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).

For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

MULTI-MASTER • HSK

MM S-A-HSK

HSK DIN69893 Form A Integral Tapered Shanks, for MULTI-MASTER Milling Heads



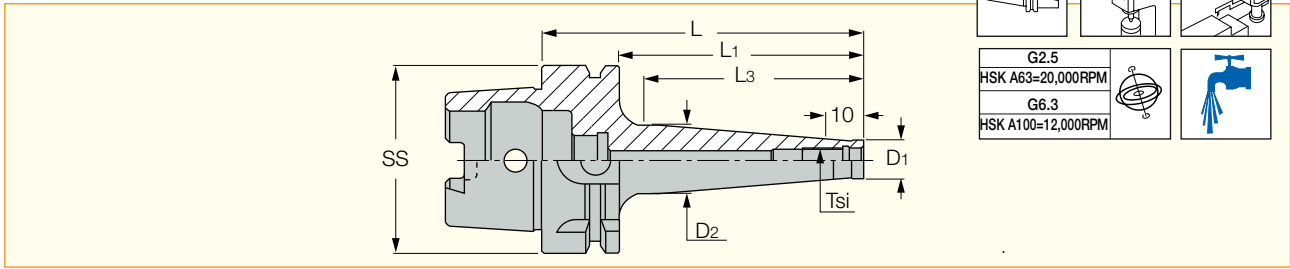
Designation	SS	T _{si}	D ₂	L	L ₁	L ₃	R
MM S-A-H050-HSK A63-T06	63	T06	9.50	50.00	24.0	18.00	6.0
MM S-A-H050-HSK A63-T08	63	T08	11.50	50.00	24.0	18.00	6.0
MM S-A-H055-HSK A63-T10	63	T10	15.20	55.00	29.0	23.00	6.0
MM S-A-H055-HSK A63-T12	63	T12	18.30	55.00	29.0	23.00	6.0
MM S-A-H060-HSK A63-T15	63	T15	23.90	60.00	34.0	28.00	6.0

• Do not apply lubricant to the threaded connection

HSK A-ODP (FLEXFIT)

Threaded Adaptations (FLEXFIT) with HSK DIN69893/A Tapered Shanks

Quick Change
High Precision
Tools and Holders for
MAXIMUM
MACHINING PERFORMANCE



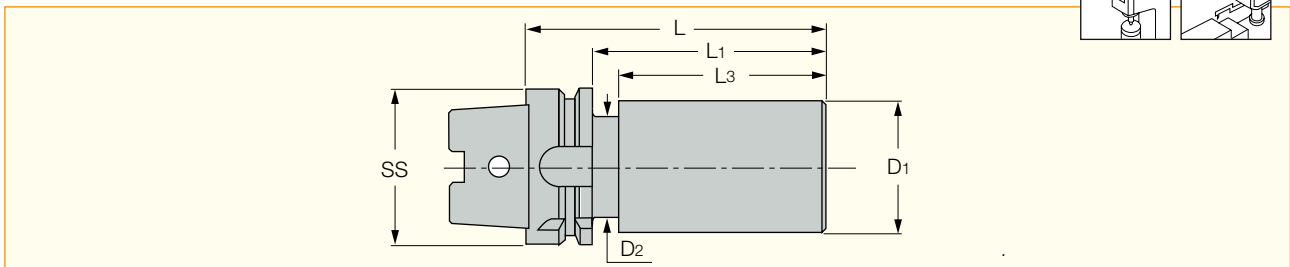
Designation	SS	Tsi	D1	D2	L	L1	L3	Kg
HSK A 63 ODP 6X109	63	M06	9.8	23.00	109.00	83.0	75.00	0.74
HSK A 63 ODP 6X59	63	M06	9.8	11.50	59.00	33.0	25.00	0.66
HSK A 63 ODP 8X109	63	M08	13.1	23.00	109.00	83.0	75.00	0.77
HSK A 63 ODP 8X59	63	M08	13.1	15.00	59.00	33.0	25.00	0.68
HSK A 63 ODP10X109	63	M10	18.0	28.00	109.00	83.0	75.00	0.87
HSK A 63 ODP10X59	63	M10	18.0	20.00	59.00	33.0	25.00	0.70
HSK A 63 ODP12X109	63	M12	21.0	31.00	109.00	83.0	75.00	0.93
HSK A 63 ODP12X59	63	M12	21.0	24.00	59.00	33.0	25.00	0.71
HSK A 63 ODP16X109	63	M16	29.0	34.00	109.00	83.0	75.00	1.05
HSK A 63 ODP16X59	63	M16	29.0	34.60	59.00	33.0	25.00	0.79
HSK A 100 ODP12X 87	100	M12	23.0	30.00	87.00	58.0	50.00	2.23
HSK A 100 ODP12X137	100	M12	23.0	30.00	137.00	108.0	100.00	2.58
HSK A 100 ODP12X187	100	M12	23.0	40.00	187.00	158.0	150.00	2.86
HSK A 100 ODP12X237	100	M12	23.0	46.00	237.00	208.0	200.00	3.40
HSK A 100 ODP16X 87	100	M16	29.0	31.50	87.00	58.0	50.00	2.20
HSK A 100 ODP16X137	100	M16	29.0	41.50	137.00	108.0	100.00	2.68
HSK A 100 ODP16X187	100	M16	29.0	55.00	187.00	158.0	150.00	3.58
HSK A 100 ODP16X237	100	M16	29.0	55.00	237.00	208.0	200.00	4.07

- HSK A 63 balanced to G2.5/20.000 RPM, HSK A 100 balanced to G6.3/12.000 RPM
 - A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).
- For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

HSK

HSK A-B-MN (blanks)

Blanks with HSK DIN69893/A Tapered Shanks



Designation	SS	D1	D2	L	L1	L3	Kg
HSK A 63 B16MN 100	63	63.0	52.80	100.00	74.0	55.50	2.31
HSK A 63 B16MN 200	63	63.0	52.80	200.00	174.0	155.50	4.75
HSK A 100 B16MN 100	100	102.0	85.00	100.00	71.0	54.80	6.22
HSK A 100 B16MN 200	100	102.0	85.00	200.00	171.0	154.80	12.60

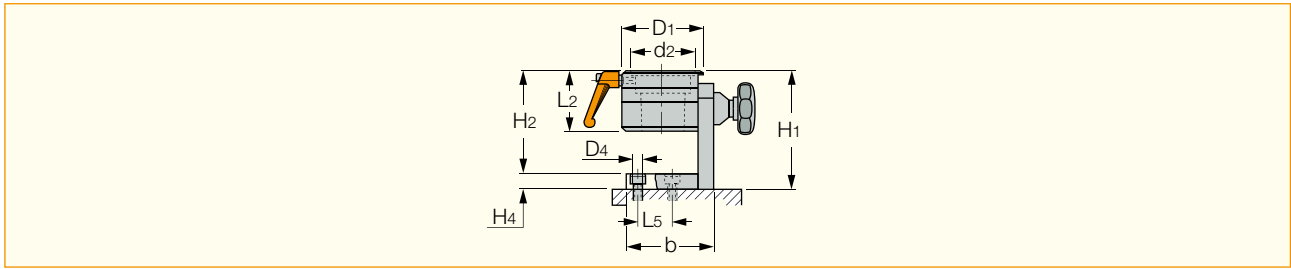
- Material: Case hardened alloy steel
- Shank surface hardness 640-700 HV0.5 (57-60 HRC) minimum
- Nose hardness 27-35 HRC
- Tensile strength: min 760 Mpa

For spare parts, refer to ISCAR TOOLHOLDING SYSTEMS catalog

Accessories

MULTI CLAMP HSK

Multi-clamp Rotary Fixture for HSK Shanks

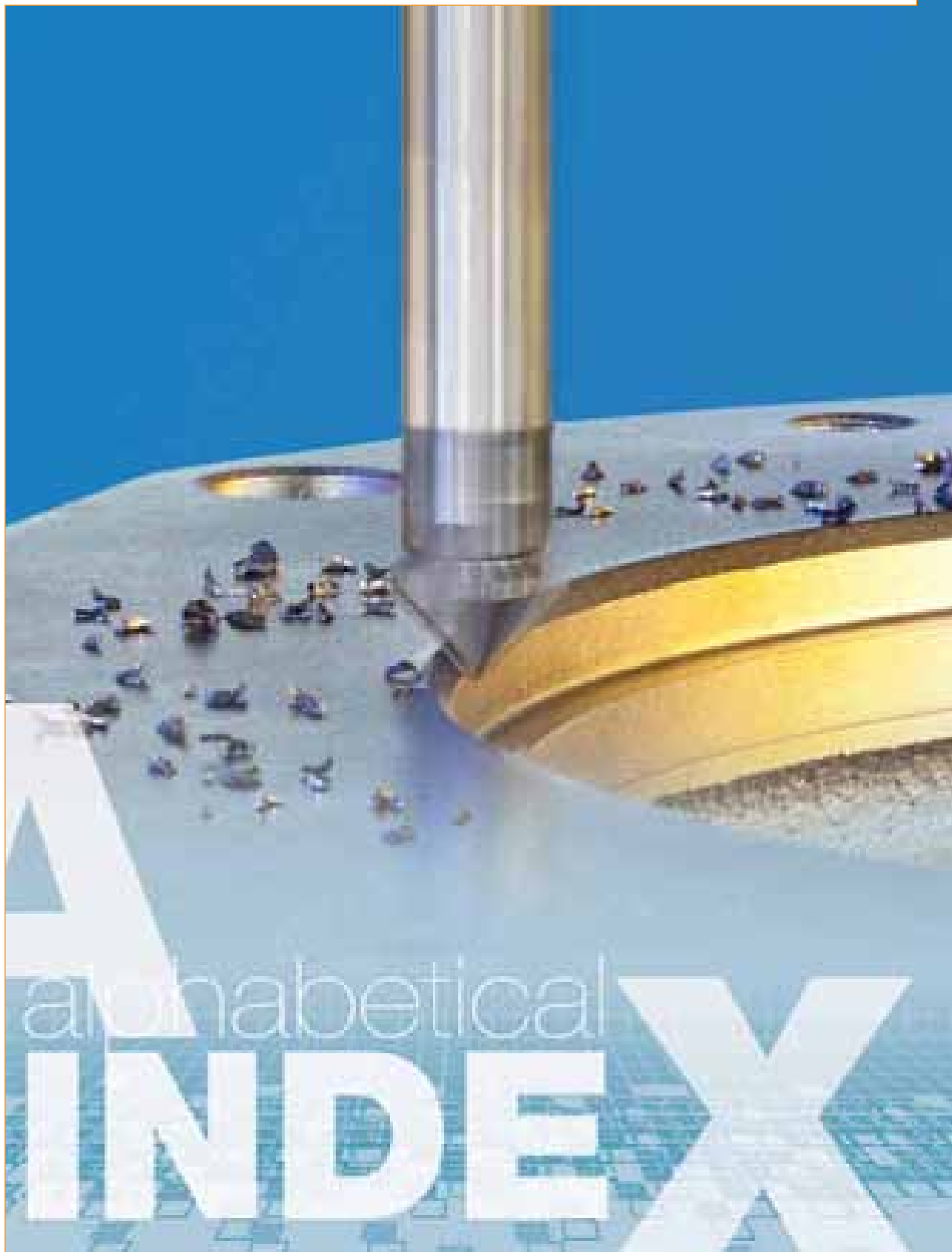


Designation	CSI	d ₂	D ₁	L ₂	H ₁	H ₂	H ₄	b	L ₅	D ₄
MULTI CLAMP 63 A/C	HSK A/C63	63.00	95.0	72.00	142.0	123.0	19.0	104.0	40.00	12.50
MULTI CLAMP 100 A/C	HSK A/C100	100.00	130.0	90.00	178.0	159.0	19.0	144.0	85.00	12.50

⁽¹⁾ For HSK 80 E, F and pin flange shanks



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