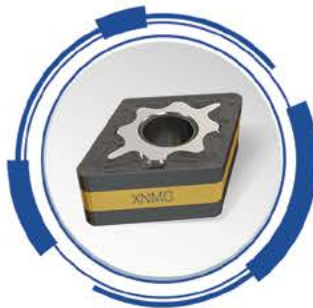


# ISCAR **TURNING** LINES

Metric Catalog



**TURNING** **IN** **INDUSTRY 4.0**  
**INTELLIGENTLY**



ISO  
TURNING

GROOVING

PARTING

FACE  
GROOVING

TOOL  
BLOCKS

THREADING

TOOL  
HOLDERS

GRADES





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ISCAR has been certified by the prestigious Standards Institution, as being in full compliance to ensure delivery of the finest quality goods. Quality control facilities include the metallurgical laboratory, raw metal testing, an online testing procedure and a machining center for tool performance testing and final product inspection. Only the finest products are packaged for entry into ISCAR's inventory.



# TABLE OF CONTENTS

**ISOTURN TOOLS AND INSERTS** 3

**GROOVE-TURN** 255

**TOOLS FOR MINIATURE PARTS** 361

**BROACHING TOOLS** 439

**PARTING** 459

**FACE GROOVING** 549

**THREADING TOOLS & INSERTS** 635

**NON-ROTATING TOOL HOLDERS** 729

**MATERIALS** 783

**INDEX** 816



# NEOTA

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# ISOTURN Tools and Inserts



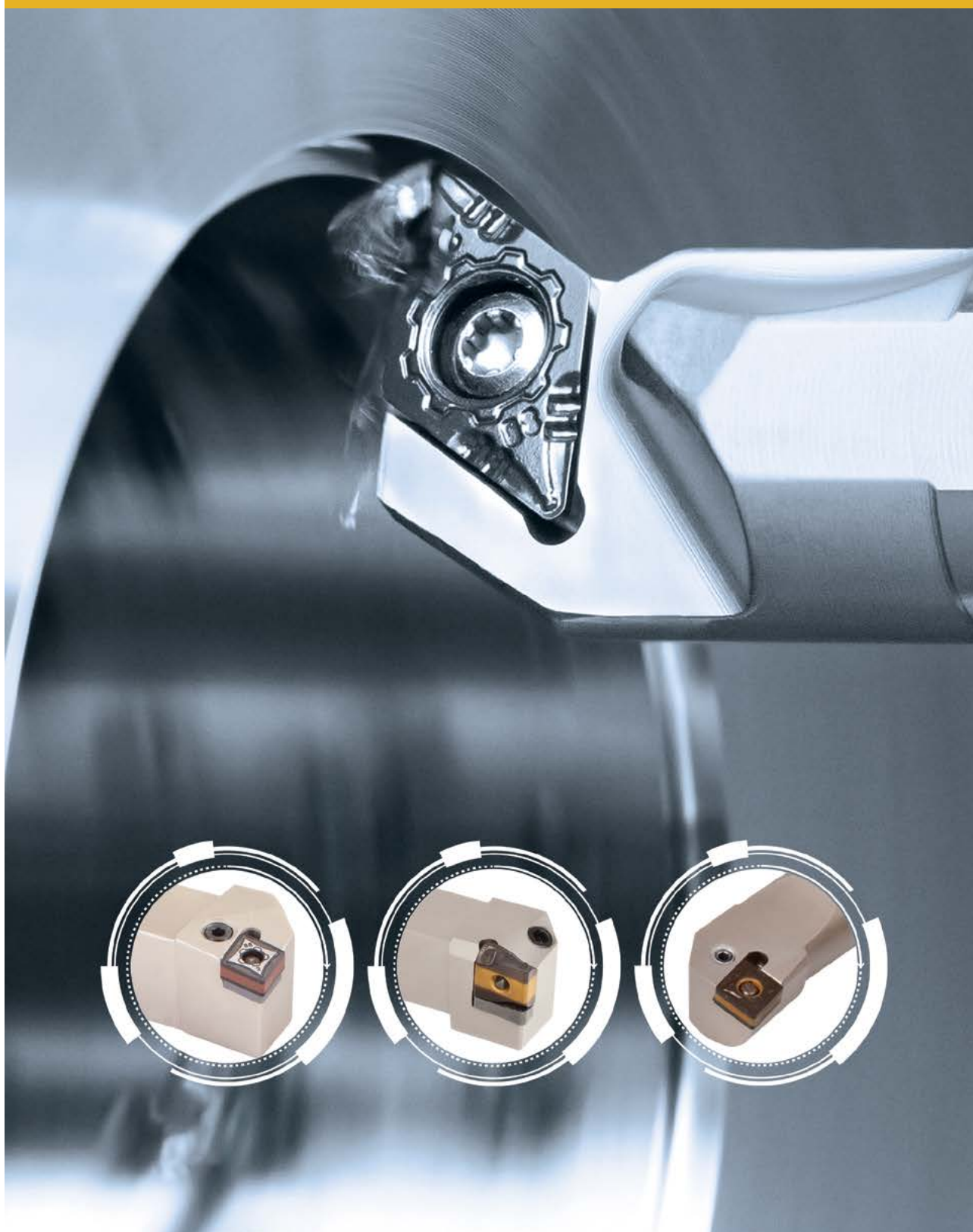


# TABLE OF CONTENTS

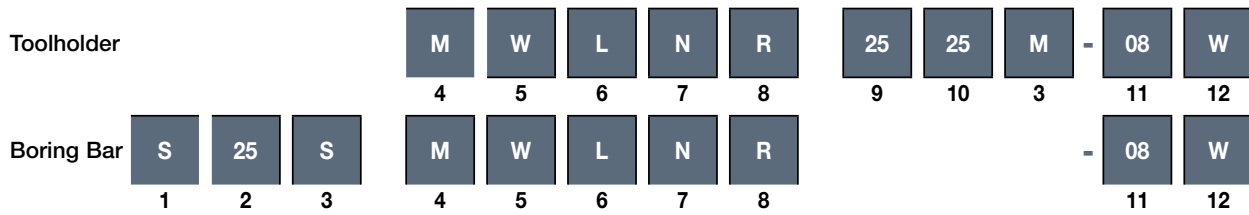
<b>ISOTURN Tools</b> .....	<b>5</b>
Tool Identification System .....	6
External Tools .....	8
Jet High-Pressure Tools.....	78
Tools for Ceramic Inserts .....	88
Boring Bars .....	91
<b>ISOTURN Inserts</b> .....	<b>121</b>
Insert Identification System.....	122
Selection Guide for Chipformers and Grades .....	124
Negative Inserts.....	135
Positive Inserts .....	183
Inserts for Machining Aluminum.....	209
Pipe Skiving Inserts .....	215
CBN, PCD and Ceramic Inserts .....	216
<b>ISOTURN User Guide</b> .....	<b>236</b>
Cutting Speed Recommendations.....	246
Turning Grades Chart .....	248



# ISOTURN TOOLS



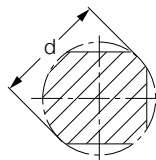
**Toolholder Identification System**



**1 Boring Bar**

<b>S</b>	Steel Shank
<b>A</b>	Coolant Through Steel Shank
<b>C</b>	Solid Carbide Shank
<b>E</b>	Coolant Through Carbide Shank

**2 Bar Diameter**



**3 Tool Length**



A = 32	H = 100	Q = 180
B = 40	J = 110	R = 200
C = 50	K = 125	S = 250
D = 60	L = 140	T = 300
E = 70	M = 150	U = 350
F = 80	N = 160	V = 400
G = 90	P = 170	W = 450
		Y = 500
		X = Special

**4 Clamping System**

<b>C</b>		<b>P</b>	
	Top Clamp Iscadex		Lever Lock
<b>S</b>		<b>M...W</b>	
	SC-Screw Clamping		Top Wedge Lock
<b>D</b>			
	Rigid Clamp		

**5 Insert Shape**

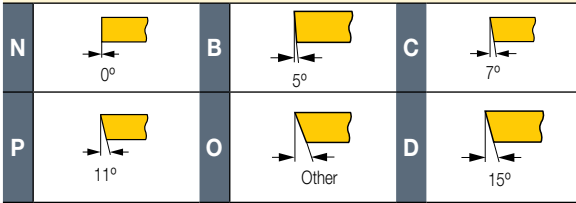
<b>W</b>		<b>V</b>	
<b>C</b>		<b>D</b>	
<b>T</b>		<b>S</b>	
<b>R</b>		<b>K</b>	
<b>L</b>		<b>Q</b>	

**6 Approach Angle**

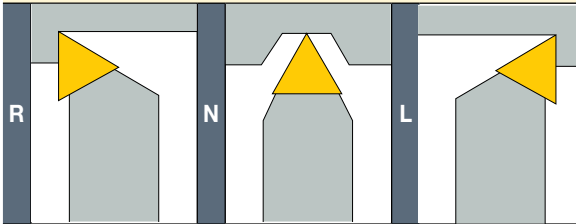
<b>A</b>		<b>B</b>		<b>D</b>		<b>E</b>	
<b>F</b>		<b>G</b>		<b>J</b>		<b>K</b>	
<b>L</b>		<b>N</b>		<b>Q</b>		<b>R</b>	
<b>S</b>		<b>U</b>		<b>V</b>		<b>X</b>	



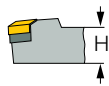
**7 Insert Clearance Angle**



**8 Hand of Tool**



**9 Shank Height**

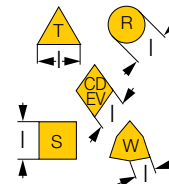


**10 Shank Width**



**11 Insert Size**

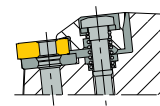
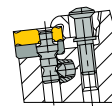
Cutting edge length



**12 Wedge Lock**

W-Top wedge

MW-Multi-wedge

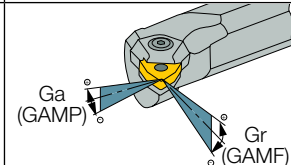
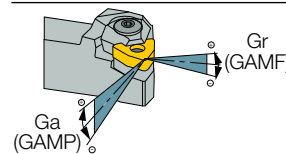


S- for Swiss-type machines

**Axial Ga and Radial Gr Rake angles**

Toolholder

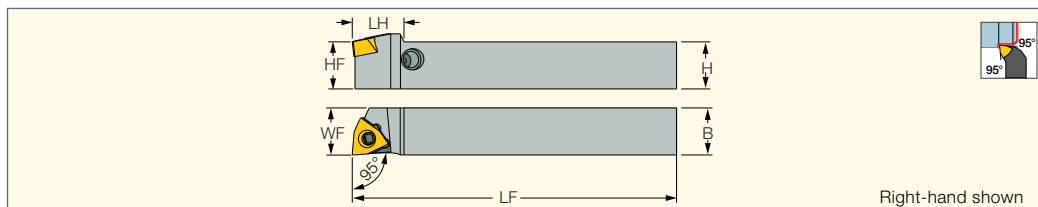
Boring Bar



**ISOTURN**

**PWLNRL/L-S**

Lever Lock External Turning  
Tools Carrying WNGP 0403..  
Double-Sided Trigon Inserts



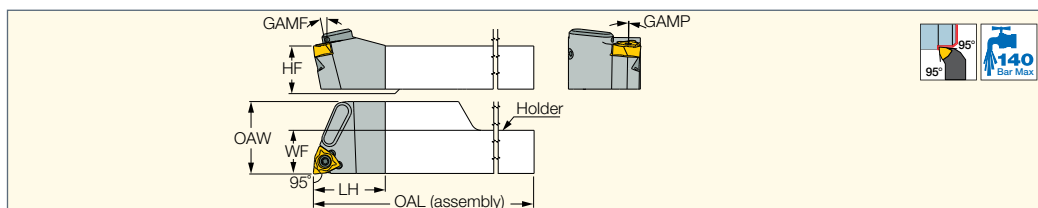
Designation	H	HF	B	LF	LH	WF	Insert				
PWLNRL/L 1010X-04S	10.0	10.0	10.0	120.00	11.0	10.00	WNGP 04	SR 10400611	HW 2.0/5	SL LV-2	SL PI-2 PIN
PWLNRL/L 1212F-04S	12.0	12.0	12.0	85.00	11.0	12.00	WNGP 04	SR 10400611	HW 2.0/5	SL LV-2	SL PI-2 PIN
PWLNRL/L 1212X-04S	12.0	12.0	12.0	120.00	11.0	12.00	WNGP 04	SR 10400611	HW 2.0/5	SL LV-2	SL PI-2 PIN
PWLNRL/L 1616X-04S	16.0	16.0	16.0	120.00	13.0	16.00	WNGP 04	SR 10400611	HW 2.0/5	SL LV-2	SL PI-2 PIN

• Use a left-hand insert on a right-hand tool and vice versa.  
For inserts, see pages: WNGP-F2M (137) • WNGP-F2P (135)

**NEOSWISS**  
INDEXABLE HEADS  
**MINIPTURN**  
POSITIVE DOUBLE SIDED

**NQCH-SWLNRL/L-S-JHP**

Screw Lock Modular Heads  
with High-Pressure Coolant -  
Positive Double-Sided Trigon  
Inserts for SwissType Machines



Designation	WF	HF	LH	OAL	OAW	GAMP	GAMF	Insert
NQCH12-SWLNRL/L-04S-JHP	12.15	12.0	20.0	120.00	20.15	11.0	1.0	WNGP.. 0403
NQCH16-SWLNRL/L-04S-JHP	16.15	16.0	20.0	120.00	20.15	11.0	1.0	WNGP.. 0403

For user guide, see pages 6-7, 78-84  
For holders, see pages: NQCH-JHP (61)

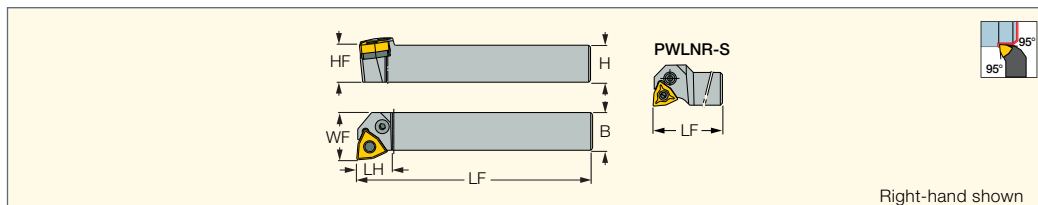
**Spare Parts**

Designation		
NQCH-SWLNRL/L-S-JHP	SR 34-514	T-7/5

**ISOTURN**

**PWLNRL/L**

Lever Lock External  
Turning Tools Carrying 80°  
Negative Trigon Inserts



Designation	H	HF	B	LF	LH	WF	Insert
PWLNRL/L 1616H-06	16.0	16.0	16.0	100.00	16.0	20.00	WN..06T3
PWLNRL/L 1616H-06S (1)	16.0	16.0	16.0	100.00	20.3	16.00	WN..06T3
PWLNRL/L 2020K-06	20.0	20.0	20.0	125.00	20.0	25.00	WN..06T3
PWLNRL/L 2525M-06	25.0	25.0	25.0	150.00	20.0	32.00	WN..06T3
PWLNRL/L 2020K-08	20.0	20.0	20.0	125.00	19.0	25.00	WN..0804
PWLNRL/L 2525M-08	25.0	25.0	25.0	150.00	20.5	32.00	WN..0804
PWLNRL/L 3232P-08	32.0	32.0	32.0	170.00	19.0	40.00	WN..0804

(1) Can be used on automatics

For inserts, see pages: WNMG-F3S (138) • WNMG-F3P (135) • WNMG-M3P (135) • WNMG-F3M (137) • WNMG-M3M (138) • WNMG-TF (141)  
• WNMG-GN (141) • WNMG-NR (142) • WNMG-PP (140) • WNMG-VL (139) • WNMG-TNM (142) • WNMG-SF (138) • WNMG-NF (139) • WNMG-NM (142)  
• WNMG-WF (140) • WNMA/WNMA-WG (143) • WNMG-WG (139) • WNGA-Ceramic (216) • WNGA-M3 (CBN) (224) • WNGA-MC/M6 (CBN) (224)  
• WNMG-CERMET (136)

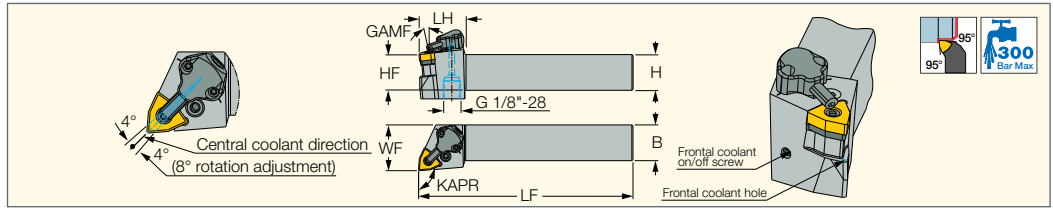
**Spare Parts**

Designation						
PWLNRL/L 1616H-06	TWN 322	SP 3	PN 3-4	HW 2.5/5	SR 117-2014	LR 3
PWLNRL/L 1616H-06S	TWN 322	SP 3	PN 3-4	HW 2.5/5	SR 117-2014	LR 3
PWLNRL/L 2020K-06	TWN 322	SP 3	PN 3-4	HW 2.5/5	SR 117-2014	LR 3
PWLNRL/L 2525M-06	TWN 322	SP 3	PN 3-4	HW 2.5/5	SR 117-2014	LR 3
PWLNRL/L 2020K-08	TWN 423	SP 4	PN 3-4	HW 3.0	SR 117-2010	LR 4
PWLNRL/L 2525M-08	TWN 423	SP 4	PN 3-4	HW 3.0	SR 117-2010	LR 4
PWLNRL/L 3232P-08	TWN 423	SP 4	PN 3-4	HW 3.0	SR 117-2010	LR 4



# ISOTURN JETCUT

**PWLNRL/L-08-JHP**  
Lever Lock Tools with Channels for High-Pressure Coolant Carrying Trigon Inserts



Designation	H	HF	B	LF	LH	WF	GAMF	Insert
PWLNRL/L 2525M-08-JHP	25.0	25.0	25.0	150.00	33.0	32.00	-6.0	WNMG 0804..
PWLNRL/L 3232P-08-JHP	32.0	32.0	32.0	170.00	33.0	40.00	-6.0	WNMG 0804..
PWLNRL/L 3232P-08-JHP	32.0	32.0	32.0	170.00	33.0	40.00	-6.0	WNMG 0804

• For user guide, see pages 78-84

**For inserts, see pages:** WNMG-CERMET (136) • WNMG-F3S (138) • WNMG-F3P (135) • WNMG-M3P (135) • WNMG-F3M (137) • WNMG-M3M (138) • WNMG-TF (141) • WNMG-GN (141) • WNMG-NR (142) • WNMG-PP (140) • WNMG-VL (139) • WNMG-TNM (142) • WNMG-NF (139) • WNMM-NM (142) • WNMG-WF (140) • WNMA/WNMA-WG (143) • WNMG-WG (139) • WNGA-Ceramic (216) • WNGA-M3 (CBN) (224) • WNGA-MC/M6 (CBN) (224)

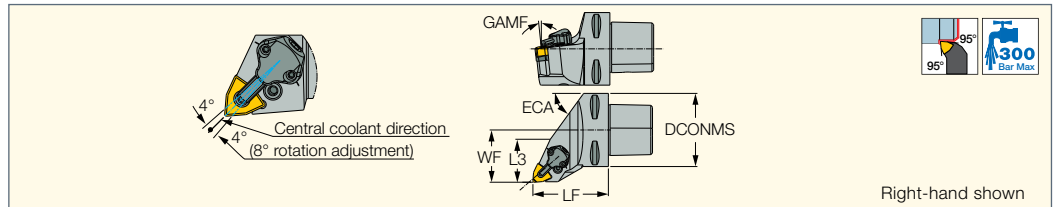
## Spare Parts

Designation											
PWLNRL/L 2525M-08-JHP	TWN 423	SP 4	PN 3-4	LR 4	SR 117-2010	SR M4X4 DIN913 TL360		CU-CW-JHP	HW 2.0	HW 3.0	T-8/5
PWLNRL/L 3232P-08-JHP	TWN 423	SP 4	PN 3-4	LR 4	SR 117-2010	SR M4X4 DIN913 TL360	OR 6.4X0.9N	CU-CW-JHP	HW 2.0	HW 3.0	T-8/5

# ISOTURN JETCUT

## CAMFIX

**C#-PWLNRL/L-08-JHP**  
Lever Lock Tools with CAMFIX Exchangeable Shanks and Channels for High-Pressure Coolant Carrying Trigon Inserts



Designation	DCONMS	WF	OHN <sup>(1)</sup>	L3	ECA	GAMF	Insert	CDI <sup>(2)</sup>	CP <sup>(3)</sup>
C6 PWLNRL/L-45065-08-JHP	63.00	45.00	65.00	37.00	55.0	-6.0	WNMG 08..	1	300

• For user guide, see pages 78-84

<sup>(1)</sup> Minimum overhang

<sup>(2)</sup> 1 - Hole for data chip, 0 - Without hole for data chip

<sup>(3)</sup> Coolant pressure (Bar)

**For inserts, see pages:** WNGG-F3N (209) • WNMG-CERMET (136) • WNMG-F3S (138) • WNMG-F3P (135) • WNMG-M3P (135) • WNMG-F3M (137) • WNMG-M3M (138) • WNMG-TF (141) • WNMG-GN (141) • WNMG-NR (142) • WNMG-PP (140) • WNMG-VL (139) • WNMG-TNM (142) • WNMG-SF (138) • WNMG-NF (139) • WNMM-NM (142) • WNMG-WF (140) • WNMA/WNMA-WG (143) • WNMG-WG (139) • WNGA-Ceramic (216) • WNGA-M3 (CBN) (224) • WNGA-MC/M6 (CBN) (224)

## Spare Parts

Designation										
C#-PWLNRL/L-08-JHP	TWN 423	SP 4	LR 4	SR 117-2010	T-8/5	PN 3-4	CU-CW-JHP	OR 6.4X0.9N	HW 3.0	LR 4DHTL (MR INJ)*

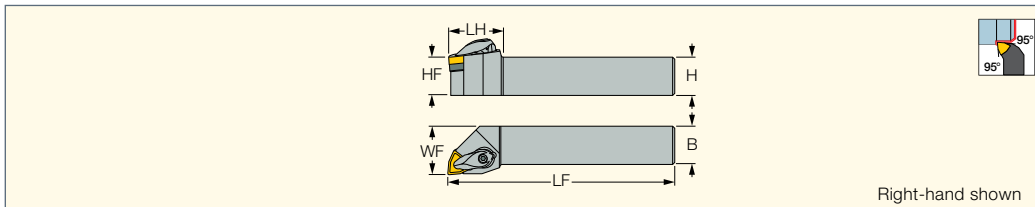
\* Optional, should be ordered separately



**ISOTURN**

**DWLNR/L**

External 95° Lead Tools Carrying Negative WNMG Trigon Inserts



Designation	H	HF	B	LF	LH	WF	Insert
DWLNR/L 1616H-06	16.0	16.0	16.0	100.00	26.0	16.00	WNMG 0604
DWLNR/L 2020K-06	20.0	20.0	20.0	125.00	26.0	25.00	WNMG 0604
DWLNR/L 2525M-06	25.0	25.0	25.0	150.00	24.0	32.00	WNMG 0604
DWLNR/L 2020K-08	20.0	20.0	20.0	125.00	35.0	25.00	WNMG 0804
DWLNR/L 2525M-08	25.0	25.0	25.0	150.00	35.0	32.00	WNMG 0804
DWLNR/L 3232P-08	32.0	32.0	32.0	170.00	35.0	40.00	WNMG 0804

For inserts, see pages: WNMG-F3S (138) • WNMX-M3/4MW (143) • WNMX-M3/4PW (143) • WNMG-F3P (135) • WNMG-M3P (135) • WNMG-CERMET (136) • WNGG-F3N (209) • WNMG-F3M (137) • WNMG-M3M (138) • WNMG-TF (141) • WNMG-GN (141) • WNMG-NR (142) • WNMG-PP (140) • WNMG-VL (139) • WNMG-TNM (142) • WNMG-SF (138) • WNMG-NF (139) • WNMN-NM (142) • WNMG-WF (140) • WNMA/WNMA-WG (143) • WNMG-WG (139) • WNGA-Ceramic (216) • WNGA-M3 (CBN) (224) • WNGA-MC/M6 (CBN) (224)

**Spare Parts**

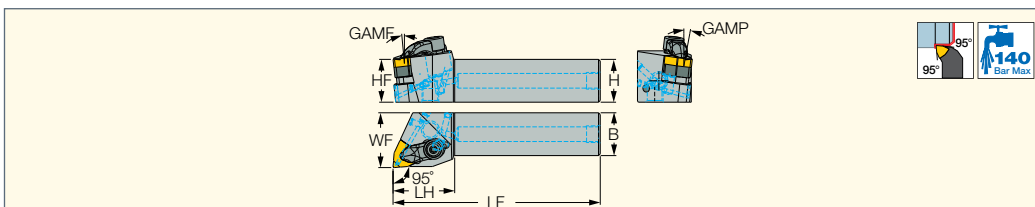
Designation									
DWLNR/L 1616H-06	RWT 322	RWT 3-2 <sup>(b)*</sup>		SR 40090I	LCGR-3	SR RC3	KSP 3		HW 2.5
DWLNR/L 2020K-06	RWT 322	RWT 3-2 <sup>(b)*</sup>		SR 40090I	LCGR-3	SR RC3	KSP 3		HW 2.5
DWLNR/L 2525M-06	RWT 322	RWT 3-2 <sup>(b)*</sup>		SR 40090I	LCGR-3	SR RC3	KSP 3		HW 2.5
DWLNR/L 2020K-08	RWT 443	RWT 443-TNM <sup>(a)*</sup>	TWH 4 <sup>(c)*</sup>	SR 14-506	LCGR-4	SR 10400270-25.5		T-15/5	
DWLNR/L 2525M-08	RWT 443	RWT 443-TNM <sup>(a)*</sup>	TWH 4 <sup>(c)*</sup>	SR 14-506	LCGR-4	SR 10400270-25.5		T-15/5	
DWLNR/L 3232P-08	RWT 443	RWT 443-TNM <sup>(a)*</sup>	TWH 4 <sup>(c)*</sup>	SR 14-506	LCGR-4	SR 10400270-25.5		T-15/5	

\* Optional, should be ordered separately  
<sup>(a)</sup> RWT 3-2 seat, for WNMG 06T3 insert  
<sup>(b)</sup> RWT 443-TNM seat, for WNMG 0804...-TNM insert  
<sup>(c)</sup> TWH 4 seat, for WNMX 0807... insert

**ISOTURN**

**JET RETURN**  
RIGID CLAMP

**DWLNR/L-JHP-MC**  
Rigid Clamp Tools with Channels for High-Pressure Coolant Carrying 80° Trigon Inserts



Designation	B	H	HF	LF	LH	WF	GAMP	GAMF	MIID <sup>(1)</sup>
DWLNR/L 2020X-08-JHP-MC	20.0	20.0	20.0	106.00	36.0	25.00	6.0	6.0	WNMG 0804
DWLNR/L 2525X-08-JHP-MC	25.0	25.0	25.0	121.00	36.0	32.00	6.0	6.0	WNMG 0804

<sup>(1)</sup> Master insert identification  
 For inserts, see pages: WNGA-Ceramic (216) • WNGA-M3 (CBN) (224) • WNGA-MC/M6 (CBN) (224) • WNMA/WNMA-WG (143) • WNMG-CERMET (136) • WNMG-F3M (137) • WNMG-F3P (135) • WNMG-F3S (138) • WNMG-GN (141) • WNMG-M3M (138) • WNMG-M3P (135) • WNMG-NF (139) • WNMG-NR (142) • WNMG-PP (140) • WNMG-TF (141) • WNMG-TNM (142) • WNMG-VL (139) • WNMG-WF (140) • WNMG-WG (139) • WNMN-NM (142) • WNMX-M3/4MW (143) • WNMX-M3/4PW (143)

**Spare Parts**

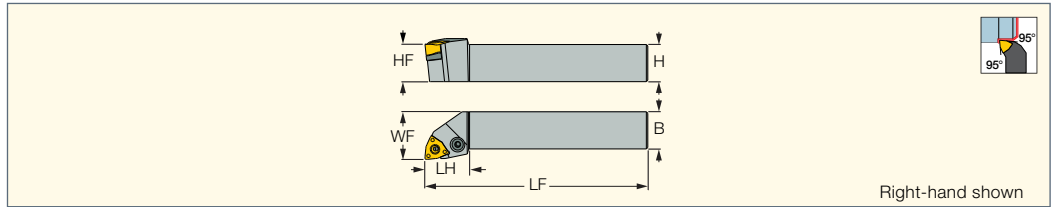
Designation							
DWLNR/L-JHP-MC	RWT 443	TWH 4 <sup>*</sup>	RWT 443-TNM <sup>*</sup>	LCGR/L-4JC SET <sup>(a)</sup>	SR 14-506	PLG G1/8 TL360	OR 4X3 NBR70

\* Optional, should be ordered separately  
<sup>(a)</sup> Recommended tightening torque 4Nm for R-Clamp Screw

# HELITURN LD

## PWLNR/L-X

Lever Lock External Turning  
Tools Carrying HELITURN LD  
WNMX or WNMG Trigon Inserts

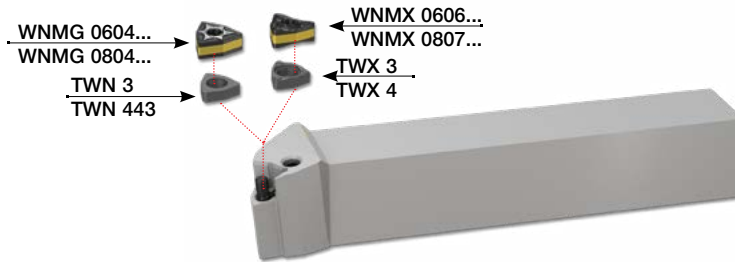


Designation	H	HF	B	LF	LH	WF	Insert
PWLNR/L 2020K-06X <sup>(1)</sup>	20.0	20.0	20.0	125.00	25.0	25.00	WNMX 0606, WNMG 0604
PWLNR/L 2525M-06X <sup>(1)</sup>	25.0	25.0	25.0	150.00	25.0	32.00	WNMX 0606, WNMG 0604
PWLNR/L 2020K-08X <sup>(2)</sup>	20.0	20.0	20.0	125.00	30.0	25.00	WNMX 0807, WNMG 0804
PWLNR/L 2525M-08X <sup>(2)</sup>	25.0	25.0	25.0	150.00	30.0	32.00	WNMX 0807, WNMG 0804
PWLNR 3232P-08X <sup>(2)</sup>	32.0	32.0	32.0	170.00	30.0	40.00	WNMX 0807, WNMG 0804

<sup>(1)</sup> Supplied with TWX 3 seat for WNMX 0606.. inserts and TWN 3 seat for WNMG 0604.. inserts.

<sup>(2)</sup> Supplied with TWX 4 seat for WNMX 0807.. inserts and TWN 443 seat for WNMG 0804.. inserts.

**For inserts, see pages:** WNGG-F3N (209) • WNMG-CERMET (136) • WNMG-F3S (138) • WNMG-F3P (135) • WNMG-M3P (135) • WNMX-M3/4PW (143) • WNMG-F3M (137) • WNMG-M3M (138) • WNMX-M3/4MW (143) • WNMG-TF (141) • WNMG-GN (141) • WNMG-NR (142) • WNMG-PP (140) • WNMG-VL (139) • WNMG-TNM (142) • WNMG-NF (139) • WNMG-NM (142) • WNMG-WF (140) • WNMG-WA/WNA-WG (143) • WNMG-WG (139) • WNGA-Ceramic (216) • WNGA-M3 (CBN) (224) • WNGA-MC/M6 (CBN) (224)



### Spare Parts

Designation								
PWLNR/L 2020K-06X	TWX 3	TWN 3	SP 3	LR 3	SR 117-2014	HW 2.5/5	PN 3-4	
PWLNR/L 2525M-06X	TWX 3	TWN 3	SP 3	LR 3	SR 117-2014	HW 2.5	PN 3-4	
PWLNR/L 2020K-08X	TWX 4	TWN 443	SP 4	LR 4DH	SR 117-2010	HW 3.0	PN 3-4L	LR 4DHTL (MR INJ)*
PWLNR/L 2525M-08X	TWX 4	TWN 443	SP 4	LR 4DH	SR 117-2010	HW 3.0	PN 3-4L	LR 4DHTL (MR INJ)*
PWLNR 3232P-08X	TWX 4	TWN 443	SP 4	LR 4DH	SR 117-2010	HW 3.0	PN 3-4L	LR 4DHTL (MR INJ)*

\* Optional, should be ordered separately

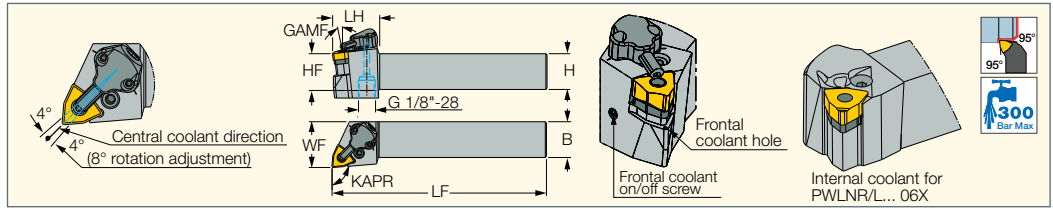




**HELITURN LD**  
**JETCUT**

**PWLNRL/L-X-JHP**

Lever Lock Tools with Channels for High-Pressure Coolant Carrying HELITURN LD WNMX or WNMG Trigon Inserts



Designation	H	HF	B	LF	LH	WF	GAMF	KAPR <sup>(3)</sup>	Insert
PWLNRL/L 2020K-06X-JHP <sup>(1)</sup>	20.0	20.0	20.0	125.00	25.0	25.00	-6.0	95.0	WNMX 0606, WNMG 0604
PWLNRL/L 2525M-06X-JHP <sup>(1)</sup>	25.0	25.0	25.0	150.00	25.0	32.00	-6.0	95.0	WNMX 0606, WNMG 0604
PWLNRL/L 2525M-08X-JHP <sup>(2)</sup>	25.0	25.0	25.0	150.00	33.0	32.00	-6.0	95.0	WNMX 0807, WNMG 0804
PWLNRL/L 3232P-08X-JHP <sup>(2)</sup>	32.0	32.0	32.0	170.00	33.0	40.00	-6.0	95.0	WNMX 0807, WNMG 0804

• For user guide, see pages 78-84

<sup>(1)</sup> Supplied with TWX 3 seat for WNMX 0606.. inserts and TWN 3 seat for WNMG 0604.. inserts.

<sup>(2)</sup> Supplied with TWX 4 seat for WNMX 0807.. inserts and TWN 443 seat for WNMG 0804.. inserts.

<sup>(3)</sup> Tool cutting edge angle

**For inserts, see pages:** WNGG-F3N (209) • WNMG-CERMET (136) • WNMG-F3S (138) • WNMG-F3P (135) • WNMG-M3P (135) • WNMX-M3/4PW (143)

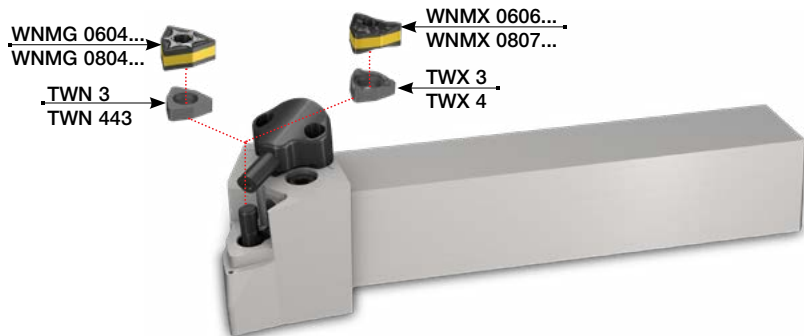
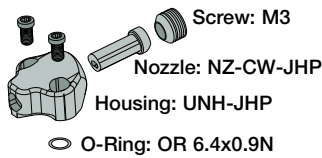
• WNMG-F3M (137) • WNMG-M3M (138) • WNMX-M3/4MW (143) • WNMG-TF (141) • WNMG-GN (141) • WNMG-NR (142) • WNMG-PP (140) • WNMX-VL (139)

• WNMG-TNM (142) • WNMG-NF (139) • WNMN-NM (142) • WNMG-WF (140) • WNMN-WNMA-WG (143) • WNMG-WG (139) • WNGA-Ceramic (216)

• WNGA-M3 (CBN) (224) • WNGA-MC/M6 (CBN) (224)

**CU-CW-JHP**

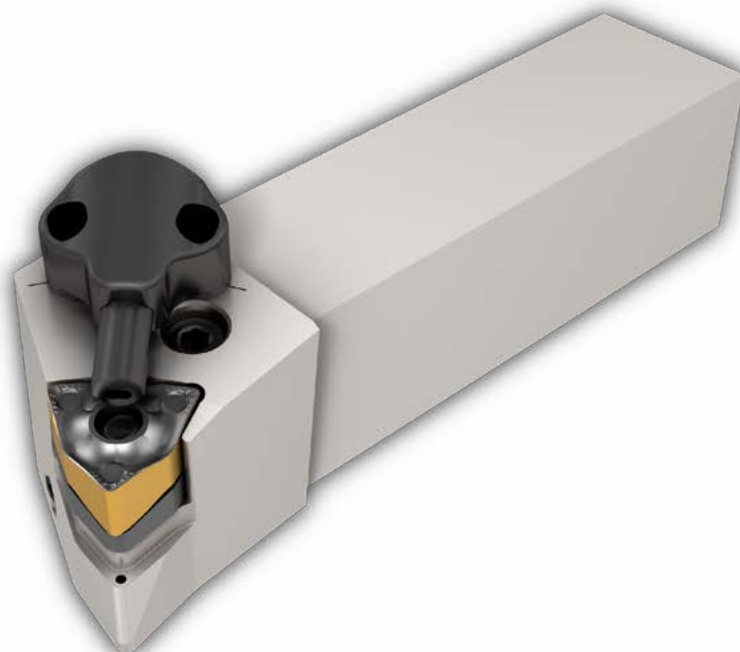
Screw: SR M3



**Spare Parts**

Designation												
PWLNRL/L 2020K-06X-JHP	TWX 3	TWN 3	SP 3	LR 3	SR 117-2014	PN 3-4				HW 2.5/5		
PWLNRL/L 2525M-06X-JHP	TWX 3	TWN 3	SP 3	LR 3	SR 117-2014	PN 3-4				HW 2.5/5		
PWLNRL/L 2525M-08X-JHP	TWX 4	TWN 443	SP 4	LR 4DH	SR 117-2010	PN 3-4L	CU-CW-JHP	T-8/5	LR 4DHTL (MR INJ)*	HW 2.0	HW 3.0	SR M4X4 DIN913 TL360
PWLNRL/L 3232P-08X-JHP	TWX 4	TWN 443	SP 4	LR 4DH	SR 117-2010	PN 3-4L	CU-CW-JHP	T-8/5	LR 4DHTL (MR INJ)*	HW 2.0	HW 3.0	SR M4X4 DIN913 TL360

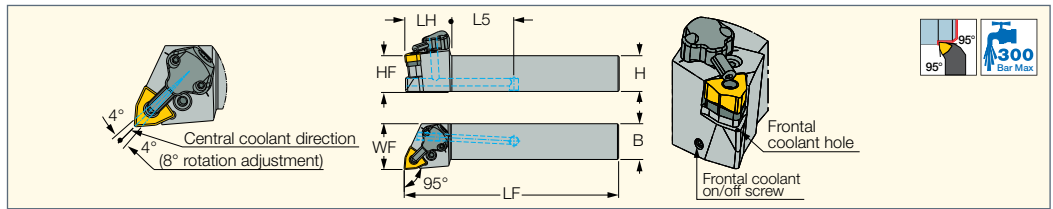
\* Optional, should be ordered separately



# HELITURN LD JETCUT

## PWLNRL/L-X-JHP-MC

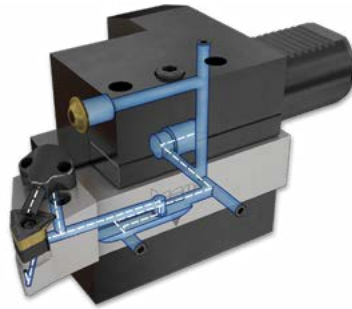
Lever Lock Tools with Bottom Inlets for High-Pressure Coolant Channels Carrying HELITURN LD WNMX and WNMG Trigon Inserts



Designation	H	HF	B	LF	LH	L5	WF	Insert
PWLNRL/L 2020X-06X-JHP-MC	20.0	20.0	20.0	97.00	27.0	29.00	25.00	WNMX 0606, WNMG 0604
PWLNRL/L 2525X-06X-JHP-MC	25.0	25.0	25.0	118.00	33.0	35.00	32.00	WNMX 0606, WNMG 0604
PWLNRL/L 2020X-08X-JHP-MC	20.0	20.0	20.0	97.00	27.0	29.00	25.00	WNMX 0807, WNMG 0804
PWLNRL/L 2525X-08X-JHP-MC	25.0	25.0	25.0	118.00	33.0	35.00	32.00	WNMX 0807, WNMG 0804

• For user guide, see pages 78-84

**For inserts, see pages:** WNGG-F3N (209) • WNMG-F3S (138) • WNMG-F3P (135) • WNMG-M3P (135) • WNMX-M3/4PW (143) • WNMG-F3M (137) • WNMG-M3M (138) • WNMX-M3/4MW (143) • WNMG-TF (141) • WNMG-GN (141) • WNMG-NR (142) • WNMG-PP (140) • WNMG-TNM (142) • WNMG-NF (139) • WNMM-NM (142) • WNMG-WF (140) • WNMA/WNMA-WG (143) • WNMG-WG (139) • WNGA-Ceramic (216) • WNGA-M3 (CBN) (224) • WNGA-MC/M6 (CBN) (224)



### Spare Parts

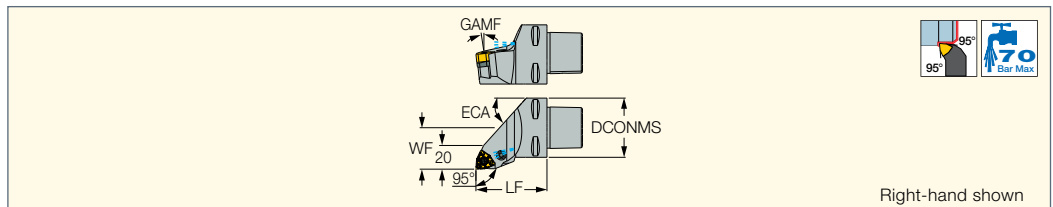
Designation											
PWLNRL/L 2020X-06X-JHP-MC	TWX 3	TWN 3	SP 3	LR 3	SR 117-2014	PN 3-4	HW 2.5	CU-CW-JHP	T-8/5	SR M5X5 DIN913 TL360	
PWLNRL/L 2525X-06X-JHP-MC	TWX 3	TWN 3	SP 3	LR 3	SR 117-2014	PN 3-4	HW 2.5	CU-CW-JHP	T-8/5	SR M5X5 DIN913 TL360	
PWLNRL/L 2020X-08X-JHP-MC	TWX 4	TWN 443	SP 4	LR 4DH	SR 117-2010	PN 3-4L	HW 2.5	CU-CW-JHP	T-8/5	SR M5X5 DIN913 TL360	HW 3.0 LR 4DHTL (MR INJ)*
PWLNRL/L 2525X-08X-JHP-MC	TWX 4	TWN 443	SP 4	LR 4DH	SR 117-2010	PN 3-4L	HW 2.5	CU-CW-JHP	T-8/5	SR M5X5 DIN913 TL360	HW 3.0 LR 4DHTL (MR INJ)*

\* Optional, should be ordered separately

# HELITURN LD CAMFIX

## C#-PWLNRL/L-X

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



Designation	DCONMS	WF	OHN <sup>(3)</sup>	ECA	GAMF	Insert	CDI <sup>(4)</sup>	CP <sup>(5)</sup>
C4 PWLNRL/L-27050-06X <sup>(1)</sup>	40.00	27.00	50.00	45.0	6.0	WNMX 0606, WNMG 0604	1	70
C5 PWLNRL/L-25060-06X <sup>(1)</sup>	50.00	25.00	60.00	48.0	6.0	WNMX 0606, WNMG 0604	1	70
C4 PWLNRL/L-27050-08X <sup>(2)</sup>	40.00	27.00	50.00	45.0	6.0	WNMX 0807, WNMG 0804	1	70
C5 PWLNRL/L-35060-08X <sup>(2)</sup>	50.00	35.00	60.00	48.0	6.0	WNMX 0807, WNMG 0804	1	70

<sup>(1)</sup> Supplied with TWX 3 seat for WNMX 0606.. inserts and TWN 3 seat for WNMG 0604.. inserts.

<sup>(2)</sup> Supplied with TWX 4 seat for WNMX 0807.. inserts and TWN 443 seat for WNMG 0804.. inserts.

<sup>(3)</sup> Minimum overhang

<sup>(4)</sup> 1 - Hole for data chip, 0 - Without hole for data chip

<sup>(5)</sup> Coolant pressure (Bar)

**For inserts, see pages:** WNGG-F3N (209) • WNMG-F3S (138) • WNMX-M3/4MW (143) • WNMX-M3/4PW (143) • WNMG-F3P (135) • WNMG-M3P (135)

• WNMG-F3M (137) • WNMG-M3M (138) • WNMG-TF (141) • WNMG-GN (141) • WNMG-PP (140) • WNMG-NF (139) • WNMG-WF (140) • WNMA/WNMA-WG (143) • WNMG-WG (139)

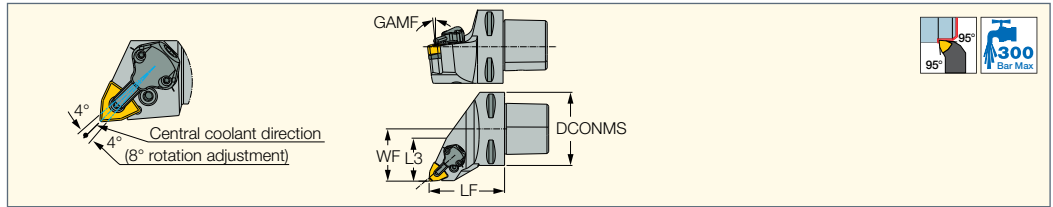
### Spare Parts

Designation										
C4 PWLNRL/L-27050-06X	TWX 3	TWN 3	SP 3	LR 3	SR 117-2014	PN 3-4	EZ 62		HW 2.5/5	
C5 PWLNRL/L-25060-06X	TWX 3	TWN 3	SP 3	LR 3	SR 117-2014	PN 3-4	EZ 62		HW 2.5/5	
C4 PWLNRL/L-27050-08X	TWX 4	TWN 443	SP 4	LR 4DH	SR 117-2010	PN 3-4L	EZ 62		HW 3.0	LR 4DHTL (MR INJ)*
C5 PWLNRL/L-35060-08X	TWX 4	TWN 443	SP 4	LR 4DH	SR 117-2010	PN 3-4L	EZ 62		HW 3.0	LR 4DHTL (MR INJ)*
C4 PWLNRL/L-27050-06X	TWX 3	TWN 3	SP 3	LR 3	SR 117-2014	PN 3-4	EZ 62		HW 2.5/5	
C5 PWLNRL/L-25060-06X	TWX 3	TWN 3	SP 3	LR 3	SR 117-2014	PN 3-4	EZ 62		HW 2.5/5	
C4 PWLNRL/L-27050-08X	TWX 4	TWN 443	SP 4	LR 4DH	SR 117-2010	PN 3-4L	EZ 62		HW 3.0	LR 4DHTL (MR INJ)*
C5 PWLNRL/L-35060-08X	TWX 4	TWN 443	SP 4	LR 4DH	SR 117-2010	PN 3-4L	EZ 62		HW 3.0	LR 4DHTL (MR INJ)*

\* Optional, should be ordered separately

**HELITURN LD**  
**JETCUT CAMFIX**

**C#-PWLNR/L-X-JHP**  
Lever Lock Tools with CAMFIX  
Shanks and Channels for High-  
Pressure Coolant, Carrying  
WNMX or WNMG Inserts



Designation	DCONMS	LF	WF	L3	GAMF	Insert	CDI <sup>(3)</sup>
<b>C3 PWLNR-22045-06X-JHP</b> <sup>(1)</sup>	32.00	45.00	22.00	26.00	-6.0	WNMX 0606, WNMG 0604	0
<b>C3 PWLNR-22045-08X-JHP</b> <sup>(2)</sup>	32.00	45.00	22.00	22.00	-6.0	WNMX 0807, WNMG 0804	0
<b>C4 PWLNR/L-27050-08X-JHP</b> <sup>(2)</sup>	40.00	50.00	27.00	22.00	-6.0	WNMX 0807, WNMG 0804	1
<b>C5 PWLNR/L-35060-08X-JHP</b> <sup>(2)</sup>	50.00	60.00	35.00	25.00	-6.0	WNMX 0807, WNMG 0804	1
<b>C6 PWLNR/L-45065-08X-JHP</b> <sup>(2)</sup>	63.00	65.00	45.00	37.00	-6.0	WNMX 0807, WNMG 0804	1

• For user guide, see pages 78-84

<sup>(1)</sup> Supplied with TWX 3 seat for WNMX 0606.. inserts and TWN 3 seat for WNMG 0604.. inserts.

<sup>(2)</sup> Supplied with TWX 4 seat for WNMX 0807.. inserts and TWN 443 seat for WNMG 0804.. inserts.

<sup>(3)</sup> 1 - Hole for data chip, 0 - Without hole for data chip

**For inserts, see pages:** WNMG-F3S (138) • WNMX-M3/4MW (143) • WNMX-M3/4PW (143) • WNMG-F3P (135) • WNMG-M3P (135) • WNMG-F3M (137)

• WNMG-M3M (138) • WNMG-TF (141) • WNMG-GN (141) • WNMG-PP (140) • WNMG-NF (139) • WNMG-WF (140) • WNMA/WNMA-WG (143) • WNMG-WG (139)



**Spare Parts**

Designation										
<b>C3 PWLNR-22045-06X-JHP</b>	TWX 3	TWN 3	SP 3	PN 3-4	LR 3	SR 117-2014	CU-CW-JHP		T-8/5	HW 2.5
<b>C3 PWLNR-22045-08X-JHP</b>	TWX 4	TWN 443	SP 4	PN 3-4L	LR 4DH	SR 117-2010	CU-CW-JHP	LR 4DHTL (MR INJ)*	T-8/5	HW 3.0
<b>C4 PWLNL-27050-08X-JHP</b>	TWX 4	TWN 443	SP 4	PN 3-4L	LR 4DH	SR 117-2010	CU-CW-JHP	LR 4DHTL (MR INJ)*	T-8/5	HW 3.0
<b>C4 PWLNR-27050-08X-JHP</b>	TWX 4	TWN 443	SP 4	PN 3-4L	LR 4DH	SR 117-2010	CU-CW-JHP	LR 4DHTL (MR INJ)*	T-8/5	HW 3.0
<b>C5 PWLNL-35060-08X-JHP</b>	TWX 4	TWN 443	SP 4	PN 3-4L	LR 4DH	SR 117-2010	CU-CW-JHP	LR 4DHTL (MR INJ)*	T-8/5	HW 3.0
<b>C5 PWLNR-35060-08X-JHP</b>	TWX 4	TWN 443	SP 4	PN 3-4L	LR 4DH	SR 117-2010	CU-CW-JHP	LR 4DHTL (MR INJ)*	T-8/5	HW 3.0
<b>C6 PWLNL-45065-08X-JHP</b>	TWX 4	TWN 443	SP 4	PN 3-4L	LR 4DH	SR 117-2010	CU-CW-JHP	LR 4DHTL (MR INJ)*	T-8/5	HW 3.0
<b>C6 PWLNR-45065-08X-JHP</b>	TWX 4	TWN 443	SP 4	PN 3-4L	LR 4DH	SR 117-2010	CU-CW-JHP	LR 4DHTL (MR INJ)*	T-8/5	HW 3.0

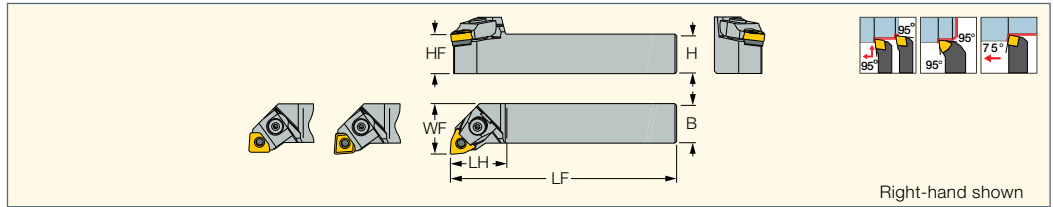
\* Optional, should be ordered separately





# MULTI-WEDGE

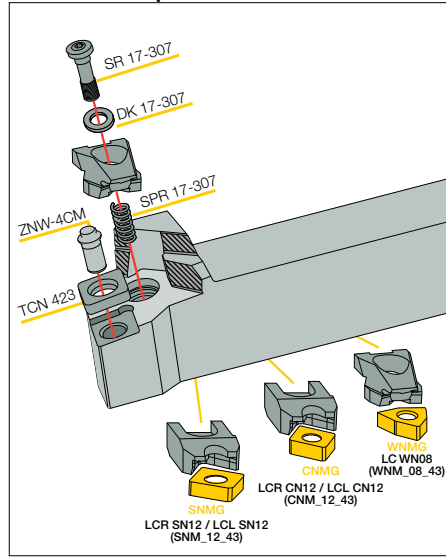
**MULNR/L-12MW**  
 MULTI-WEDGE Lock  
 External Tools Carrying  
 80° Negative Rhombic or  
 Trigon or Square Inserts



Designation	H	HF	B	LF	LH	WF
<b>MULNR/L 2525M-12MW</b>	25.0	25.0	25.0	150.00	35.0	32.00

- The wedge for the WNMG insert is supplied with the holder, order the others separately
- For inserts, see pages:** CNGA-J(CBN) (226) • CNGG-J(CBN) (227) • CNMG-CERMET (145) • CNMG-F3S (147) • SNMG-F3S (175) • WNMG-CERMET (136) • WNMG-F3S (138) • WNMG-F3P (135) • WNMG-M3P (135) • WNMG-F3M (137) • WNMG-M3M (138) • WNMG-TF (141) • WNMG-GN (141) • WNMG-NR (142) • WNMG-PP (140) • WNMG-VL (139) • WNMG-TNM (142) • WNMG-NF (139) • WNMG-NM (142) • WNMG-WF (140) • WNMA/WNMA-WG (143) • WNMG-WG (139) • WNGA-Ceramic (216) • WNGA-M3 (CBN) (224) • WNGA-MC/M6 (CBN) (224) • CNMG-F3P (144) • CNMG-M3P (144) • CNMM-R3P (153) • CNMM-M4PW (152) • CNMG-F3M (146) • CNMG-M3M (146) • CNMG/CNGG-TF (150) • CNMG-GN (151) • CNMG-NR (151) • CNMG/CNGG-PP (150) • CNMG-VL (147) • CNMG/CNGG-SF (148) • CNMG-NF (148) • CNMG-WF (148) • CNMG-WG/NRW (149) • CNMA (149) • CNGA-Ceramic (217) • CNMG-Ceramic (216) • CNGA-2 (CBN) (226) • CNGA-4 (CBN) (225) • CNGG-M4HF/M4HM (CBN) (226) • CNMA-MW4 (CBN) (225) • CNMA-T/M1/WG (CBN) (225) • CNMA (PCD) (221) • SNMG-F3P (173) • SNMG-M3P (173) • SNMM-R3P (178) • SNMG-F3M (174) • SNMG-M3M (174) • SNMG-TF (176) • SNMG-GN (177) • SNMG-NR (177) • SNMG-PP (175) • SNMG-VL (175) • SNMA (177) • SNGA-Ceramic (218) • SNMA (CBN) (235)

## Toolholder Options



## Spare Parts

Designation										
<b>MULNR/L 2525M-12MW</b>	TCN 423	ZNW 4CM	LC WN08	LCR/L CN12*	LCR/L SN12*	SR 17-307	SR M4X8	HW 3.0	DK 17-307	SPR 17-307

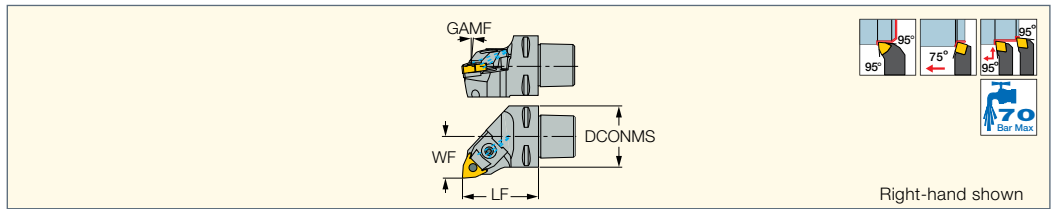
\* Optional, should be ordered separately



**MULTI-WEDGE**

**CAMFIX**

**C#-MULNR/L-MW**  
 MULTI-WEDGE Tools with  
 CAMFIX Exchangeable Shanks  
 Carrying 80° Negative Rhombic  
 or Trigon or Square Inserts



Designation	DCONMS	WF	LF	GAMF	Insert	CDI <sup>(1)</sup>
<b>C4 MULNR/L 27050-12MW</b>	40.00	27.00	50.00	6.0	W/C/SNMG 1204..	1
<b>C5 MULNR/L 35060-12MW</b>	50.00	35.00	60.00	6.0	W/C/SNMG 1204..	1
<b>C6 MULNR/L-45065-12MW</b>	63.00	45.00	65.00	6.0	W/C/SNMG 1204..	1

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

<sup>(1)</sup> 1 - Hole for data chip, 0 - Without hole for data chip

- For inserts, see pages:** CNGA-J(CBN) (226) • CNGG-J(CBN) (227) • CNMG-CERMET (145) • CNMG-F3S (147) • SNMG-F3S (175) • WNMG-CERMET (136) • WNMG-F3S (138) • WNMG-F3P (135) • WNMG-M3P (135) • WNMG-F3M (137) • WNMG-M3M (138) • WNMG-TF (141) • WNMG-GN (141) • WNMG-NR (142) • WNMG-PP (140) • WNMG-VL (139) • WNMG-TNM (142) • WNMG-NF (139) • WNMM-NM (142) • WNMG-WF (140) • WNMA/WNMA-WG (143) • WNMG-WG (139) • WNGA-Ceramic (216) • WNGA-M3 (CBN) (224) • WNGA-MC/M6 (CBN) (224) • CNMG-F3P (144) • CNMG-M3P (144) • CNMM-R3P (153) • CNMM-M4PW (152) • CNMG-F3M (146) • CNMG-M3M (146) • CNMG/CNGG-TF (150) • CNMG-GN (151) • CNMG-NR (151) • CNMG/CNGG-PP (150) • CNMG-VL (147) • CNMG/CNGG-SF (148) • CNMG-NF (148) • CNMG-WF (148) • CNMG-WG/NRW (149) • CNMA (149) • CNGA-Ceramic (217) • CNMG-Ceramic (216) • CNGA-2 (CBN) (226) • CNGA-4 (CBN) (225) • CNGG-M4HF/M4HM (CBN) (226) • CNMA-MW4 (CBN) (225) • CNMA-T/M1/WG (CBN) (225) • CNMA (PCD) (221) • SNMG-F3P (173) • SNMG-M3P (173) • SNMM-R3P (178) • SNMG-F3M (174) • SNMG-M3M (174) • SNMG-TF (176) • SNMG-GN (177) • SNMG-NR (177) • SNMG-PP (175) • SNMG-VL (175) • SNMA (177) • SNGA-Ceramic (218) • SNMA (CBN) (235)

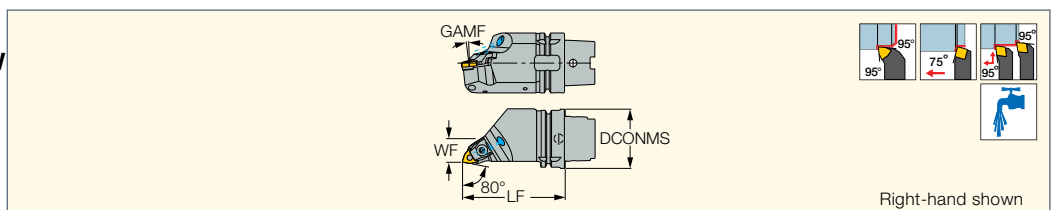
**Spare Parts**

Designation								
<b>C4 MULNL 27050-12MW</b>	TCN 423	ZNW 4CMI	LC WN08	HW 3.0	SR 17-307	DK 17-307	SPR 17-307	EZ 62
<b>C4 MULNR 27050-12MW</b>	TCN 423	ZNW 4CMI	LC WN08	HW 3.0	SR 17-307	DK 17-307	SPR 17-307	EZ 62
<b>C5 MULNL 35060-12MW</b>	TCN 423	ZNW 4CMI	LC WN08	HW 3.0	SR 17-307	DK 17-307	SPR 17-307	EZ 83
<b>C5 MULNR 35060-12MW</b>	TCN 423	ZNW 4CMI	LC WN08	HW 3.0	SR 17-307	DK 17-307	SPR 17-307	EZ 83
<b>C6 MULNL-45065-12MW</b>	TCN 423	ZNW 4CMI	LC WN08	HW 3.0	SR 17-307	DK 17-307	SPR 17-307	EZ 104
<b>C6 MULNR-45065-12MW</b>	TCN 423	ZNW 4CMI	LC WN08	HW 3.0	SR 17-307	DK 17-307	SPR 17-307	EZ 104

**HSK MULTI-WEDGE**

**HSK A63WH-MULNR/L-MW**

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



Designation	DCONMS	LF	WF	GAMF	Insert	CDI <sup>(1)</sup>
<b>HSK A63WH MULNR/L J12MW</b>	63.00	110.00	25.00	-6.0	W/C/SNMG 1204	0

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

• For shank dimensions, see page 735

<sup>(1)</sup> 1 - Hole for data chip, 0 - Without hole for data chip

- For inserts, see pages:** CNGA-J(CBN) (226) • CNGG-J(CBN) (227) • CNMG-CERMET (145) • CNMG-F3S (147) • SNMG-F3S (175) • WNMG-CERMET (136) • WNMG-F3S (138) • WNMG-F3P (135) • WNMG-M3P (135) • WNMG-F3M (137) • WNMG-M3M (138) • WNMG-TF (141) • WNMG-GN (141) • WNMG-NR (142) • WNMG-PP (140) • WNMG-VL (139) • WNMG-TNM (142) • WNMG-NF (139) • WNMM-NM (142) • WNMG-WF (140) • WNMA/WNMA-WG (143) • WNMG-WG (139) • WNGA-Ceramic (216) • WNGA-M3 (CBN) (224) • WNGA-MC/M6 (CBN) (224) • CNMG-F3P (144) • CNMG-M3P (144) • CNMM-R3P (153) • CNMM-M4PW (152) • CNMG-F3M (146) • CNMG-M3M (146) • CNMG/CNGG-TF (150) • CNMG-GN (151) • CNMG-NR (151) • CNMG/CNGG-PP (150) • CNMG-VL (147) • CNMG/CNGG-SF (148) • CNMG-NF (148) • CNMG-WF (148) • CNMG-WG/NRW (149) • CNMA (149) • CNMG-Ceramic (216) • CNGA-2 (CBN) (226) • CNGA-4 (CBN) (225) • CNGA-Ceramic (217) • CNGG-M4HF/M4HM (CBN) (226) • CNMA-MW4 (CBN) (225) • CNMA-T/M1/WG (CBN) (225) • CNMA (PCD) (221) • SNMG-F3P (173) • SNMG-M3P (173) • SNMM-R3P (178) • SNMG-F3M (174) • SNMG-M3M (174) • SNMG-TF (176) • SNMG-GN (177) • SNMG-NR (177) • SNMG-PP (175) • SNMG-VL (175) • SNMA (177) • SNGA-Ceramic (218) • SNMA (CBN) (235)

**Spare Parts**

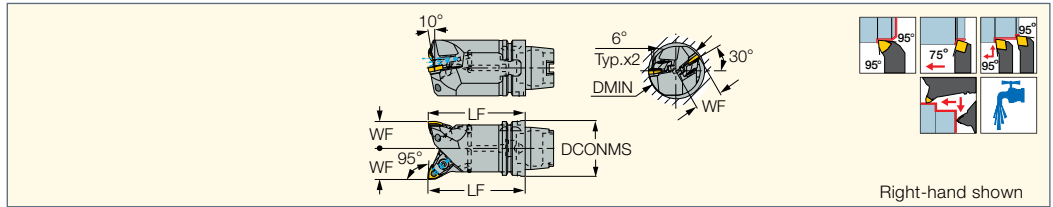
Designation											
<b>HSK A63WH-MULNR/L-MW</b>	TCN 423	LCR/L CN12*	LCR/L SN12*	LC WN08	ZNW 4CM	SR 17-307	HW 3.0	DK 17-307	SPR 17-307	SR M4X8	EZ 104

\* 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	DCONMS	LF	WF	DMIN	Insert	CDI <sup>(1)</sup>
<b>HSK A63WH-MULNR-J12MWX2</b>	63.00	110.00	35.00	72.00	W/C/SNMG 1204	0

- Complies with ICTM standard (ISO 12164-3)
- A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).
- For shank dimensions, see page 735

<sup>(1)</sup> 1 - Hole for data chip, 0 - Without hole for data chip

- For inserts, see pages:** CNGA-J(CBN) (226) • CNGG-J(CBN) (227) • CNMG-CERMET (145) • CNMG-F3S (147) • SNMG-F3S (175) • WNMG-CERMET (136) • WNMG-F3S (138) • WNMG-F3P (135) • WNMG-M3P (135) • WNMG-F3M (137) • WNMG-M3M (138) • WNMG-TF (141) • WNMG-GN (141) • WNMG-NR (142) • WNMG-PP (140) • WNMG-VL (139) • WNMG-TNM (142) • WNMG-NF (139) • WNMM-NM (142) • WNMG-WF (140) • WNMA/WNMA-WG (143) • WNMG-WG (139) • WNGA-Ceramic (216) • WNGA-M3 (CBN) (224) • WNGA-MC/M6 (CBN) (224) • CNMG-F3P (144) • CNMG-M3P (144) • CNMM-R3P (153) • CNMM-M4PW (152) • CNMG-F3M (146) • CNMG-M3M (146) • CNMG/CNGG-TF (150) • CNMG-GN (151) • CNMG-NR (151) • CNMG/CNGG-PP (150) • CNMG-VL (147) • CNMG/CNGG-SF (148) • CNMG-NF (148) • CNMG-WF (148) • CNMG-WG/NRW (149) • CNMA (149) • CNGA-Ceramic (217) • CNMG-Ceramic (216) • CNGA-2 (CBN) (226) • CNGA-4 (CBN) (225) • CNGG-M4HF/M4HM (CBN) (226) • CNMA-MW4 (CBN) (225) • CNMA-T/M1/WG (CBN) (225) • CNMA (PCD) (221) • SNMG-F3P (173) • SNMG-M3P (173) • SNMM-R3P (178) • SNMG-F3M (174) • SNMG-M3M (174) • SNMG-TF (176) • SNMG-GN (177) • SNMG-NR (177) • SNMG-PP (175) • SNMG-VL (175) • SNMA (177) • SNGA-Ceramic (218) • SNMA (CBN) (235)

### Spare Parts

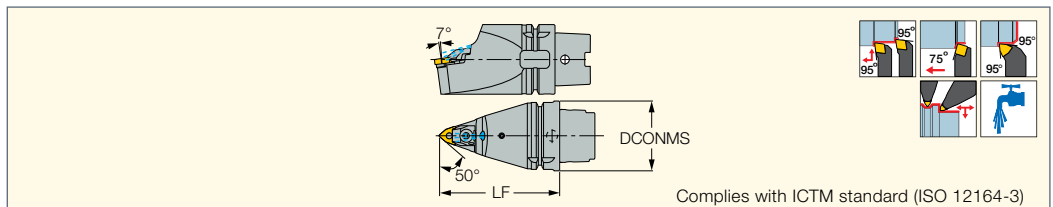
Designation									
<b>HSK A63WH-MULNR-J12MWX2</b>	TCN 423	LC WN08	LCR CN12*	LCR SN12*	ZNW 4CMI	DK 17-307	SPR 17-307	SR 17-307	HW 3.0

\* Optional, should be ordered separately

## HSK MULTI-WEDGE

### HSK A63WH-MUMNN-MW

MULTI-WEDGE Tools with  
HSK Exchangeable Shanks  
Carrying 80° Negative Rhombic  
or Trigon or Square Inserts



Designation	DCONMS	LF	Insert	CDI <sup>(1)</sup>
<b>HSK A63WH MUMNN J12MW</b>	63.00	110.00	W/C/SNMG 1204	0

- A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).
- For shank dimensions, see page 735

<sup>(1)</sup> 1 - Hole for data chip, 0 - Without hole for data chip

- For inserts, see pages:** CNGA-J(CBN) (226) • CNGG-J(CBN) (227) • CNMG-CERMET (145) • CNMG-F3S (147) • SNMG-F3S (175) • WNMG-CERMET (136) • WNMG-F3S (138) • WNMG-F3P (135) • WNMG-M3P (135) • WNMG-F3M (137) • WNMG-M3M (138) • WNMG-TF (141) • WNMG-GN (141) • WNMG-NR (142) • WNMG-PP (140) • WNMG-VL (139) • WNMG-TNM (142) • WNMG-NF (139) • WNMM-NM (142) • WNMG-WF (140) • WNMA/WNMA-WG (143) • WNMG-WG (139) • WNGA-Ceramic (216) • WNGA-M3 (CBN) (224) • WNGA-MC/M6 (CBN) (224) • CNMG-F3P (144) • CNMG-M3P (144) • CNMM-R3P (153) • CNMM-M4PW (152) • CNMG-F3M (146) • CNMG-M3M (146) • CNMG/CNGG-TF (150) • CNMG-GN (151) • CNMG-NR (151) • CNMG/CNGG-PP (150) • CNMG-VL (147) • CNMG/CNGG-SF (148) • CNMG-NF (148) • CNMG-WF (148) • CNMG-WG/NRW (149) • CNMA (149) • CNGA-Ceramic (217) • CNMG-Ceramic (216) • CNGA-2 (CBN) (226) • CNGA-4 (CBN) (225) • CNGG-M4HF/M4HM (CBN) (226) • CNMA-MW4 (CBN) (225) • CNMA-T/M1/WG (CBN) (225) • CNMA (PCD) (221) • SNMG-F3P (173) • SNMG-M3P (173) • SNMM-R3P (178) • SNMG-F3M (174) • SNMG-M3M (174) • SNMG-TF (176) • SNMG-GN (177) • SNMG-NR (177) • SNMG-PP (175) • SNMG-VL (175) • SNMA (177) • SNGA-Ceramic (218) • SNMA (CBN) (235)

### Spare Parts

Designation											
<b>HSK A63WH MUMNN J12MW</b>	LC WN08	LCR CN12*	LCR SN12*	TCN 423	ZNW 4CM	SR 17-307	HW 3.0	DK 17-307	SPR 17-307	EZ 83	SR M4X8

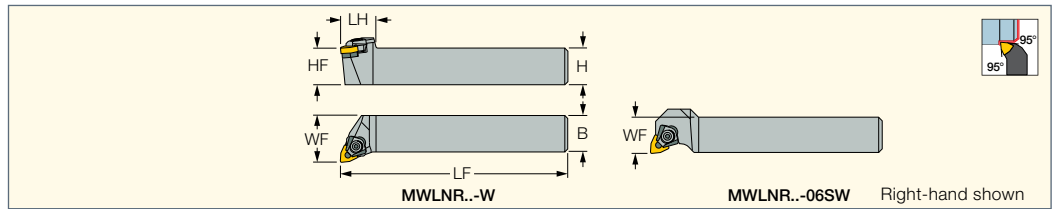
\* Optional, should be ordered separately



**ISOTURN**

**MWLNR/L-W**

Top Wedge Lock External  
Tools Carrying Trigon Inserts



Designation	H	HF	B	LF	LH	WF	Insert
MWLNR/L 1616H-06SW	16.0	16.0	16.0	100.00	23.0	16.00	WNMG 06T3
MWLNR/L 2020K-06W	20.0	20.0	20.0	125.00	25.0	25.00	WNMG 06T3
MWLNR/L 2525M-06W	25.0	25.0	25.0	150.00	25.0	32.00	WNMG 06T3
MWLNR/L 2020K-08W	20.0	20.0	20.0	125.00	30.0	25.00	WNMG 0804
MWLNR/L 2525M-08W	25.0	25.0	25.0	150.00	30.0	32.00	WNMG 0804
MWLNR/L 3232P-08W	32.0	32.0	32.0	170.00	35.0	40.00	WNMG 0804

For inserts, see pages: WNGG-F3N (209) • WNMG-CERMET (136) • WNMG-F3S (138) • WNMG-F3P (135) • WNMG-M3P (135) • WNMG-F3M (137) • WNMG-M3M (138) • WNMG-TF (141) • WNMG-GN (141) • WNMG-NR (142) • WNMG-PP (140) • WNMG-VL (139) • WNMG-TNM (142) • WNMG-SF (138) • WNMG-NF (139) • WNMN-NM (142) • WNMG-WF (140) • WNMA/WNMA-WG (143) • WNMG-WG (139) • WNGA-Ceramic (216) • WNGA-M3 (CBN) (224) • WNGA-MC/M6 (CBN) (224)

**Spare Parts**

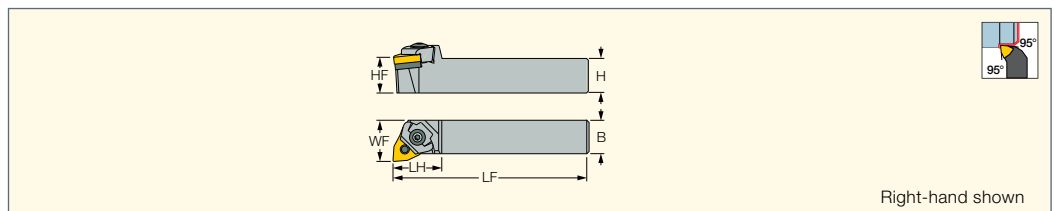
Designation							
MWLNR/L 1616H-06SW	IWSN 322W	IWSN 3-2W <sup>(a)</sup> *	ZNW 3W	SR 14-564	LC 250 SET 1	HW 2.5	
MWLNR/L 2020K-06W	IWSN 322W	IWSN 3-2W <sup>(a)</sup> *	ZNW 3W	SR 14-564	LC 250 SET 1	HW 2.5	
MWLNR/L 2525M-06W	IWSN 322W	IWSN 3-2W <sup>(a)</sup> *	ZNW 3W	SR 14-564	LC 250 SET 1	HW 2.5	
MWLNR/L 2020K-08W	IWSN 433	IWSN 433M <sup>(b)</sup> *	ZNW 4W	SR M4X8	LC 252 SET 1	HW 3.0	
MWLNR/L 2525M-08W	IWSN 433	IWSN 433M <sup>(b)</sup> *	ZNW 4W	SR M4X8	LC 252 SET 1	HW 3.0	
MWLNR/L 3232P-08W	IWSN 433	IWSN 433M <sup>(b)</sup> *	ZNW 4W	SR M4X8	LC 252 SET 1	HW 3.0	

\* Optional, should be ordered separately  
<sup>(a)</sup> Use IWSN 3-2W optional seat for WNMG 0604.. inserts  
<sup>(b)</sup> Use IWSN 433M optional seat for WNMG 0804..-TNM inserts

**ISOTURN**

**MWLNR/L-13W**

Top Wedge Lock External  
Toolholders for Large  
Trigon Inserts



Designation	H	B	HF	LF	LH	WF	Insert
MWLNR/L 3232P-13W	32.0	32.0	32.0	170.00	45.0	40.00	WNMG 1306
MWLNR/L 4040R-13W	40.0	40.0	40.0	200.00	45.0	50.00	WNMG 1306

For inserts, see pages: WNMA/WNMA-WG (143) • WNMG-TNM (142)

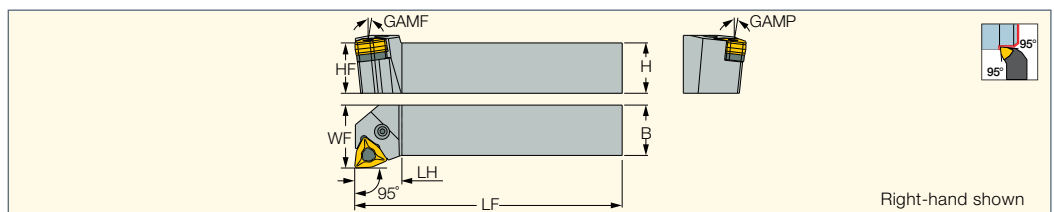
**Spare Parts**

Designation								
MWLNR/L-13W	IWSN 635	ZNW 6W	SR 14-570	LC 253	HW 4P	SPR 17-362	SR 17-362	WA M8

**DOVE IQTURN**  
HEAVY DUTY LINE

**PWLOR/L-IQ**

Lever Lock and Dovetail Pocket  
Rigid Clamping Tools Carrying  
Unique Double-Sided  
Trigon Inserts



Designation	H	HF	B	LF	LH	WF	GAMP	GAMF	Insert
PWLOR/L 2525M-10-IQ	25.0	25.0	25.0	150.00	25.0	32.00	-6.0	-6.0	WOMG 1007-IQ
PWLOR/L 3232P-10-IQ	32.0	32.0	32.0	170.00	30.0	40.00	-6.0	-6.0	WOMG 1007-IQ
PWLOR/L 3232P-13-IQ	32.0	32.0	32.0	170.00	30.0	40.00	-6.5	-6.5	WOMG 1306-IQ
PWLOR/L 4040S-13-IQ	40.0	40.0	40.0	250.00	30.0	48.00	-6.5	-6.5	WOMG 1306-IQ

For inserts, see pages: WOMG-10-T3P-IQ (136) • WOMG-13-R3P-IQ (137)

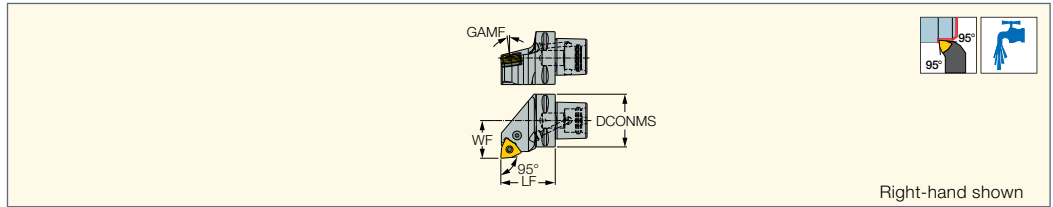
**Spare Parts**

Designation					
PWLOR/L 2525M-10-IQ	TWN 5-4-IQ	SP D1.5-L10 <sup>(a)</sup>	SR LCS 5	LR 5	HW 3.0
PWLOR/L 3232P-10-IQ	TWN 5-4-IQ	SP D1.5-L10 <sup>(a)</sup>	SR LCS 5	LR 5	HW 3.0
PWLOR/L 3232P-13-IQ	TWX 6-IQ	SP 5 <sup>(a)</sup>	SR 10402352	LCL 20C-NX	HW 4.0
PWLOR/L 4040S-13-IQ	TWX 6-IQ	SP 5 <sup>(a)</sup>	SR 10402352	LCL 20C-NX	HW 4.0

<sup>(a)</sup> Seat Pin

**C#-PWLOR/L-IQ**

Lever Lock and Dovetail Rigid Clamping Pocket with CAMFIX Shank Tools Carrying Unique Double-Sided Trigon Inserts



Right-hand shown

Designation	DCONMS	WF	LF	GAMF	Insert
<b>C6 PWLOR/L-45065-13-IQ</b>	63.00	45.00	65.00	-6.5	WOMG 1306-IQ

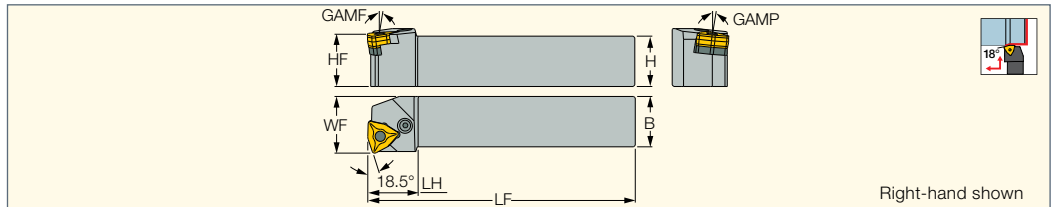
For inserts, see pages: WOMG-13-R3P-IQ (137)

**Spare Parts**

Designation						
<b>C#-PWLOR/L-IQ</b>	TWX 6-IQ	LCL 20C-NX	SR 10402352	HW 4.0	SP 5	SATZ-M10X1-M5

**PWXOR/L-TF-IQ**

Lever Lock Tools for Fast Feed Longitudinal Turning

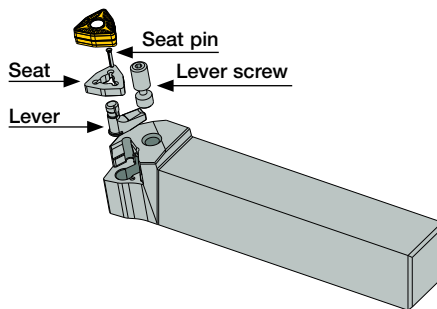


Right-hand shown

Designation	H	HF	B	LF	LH	WF	GAMP	GAMF	Insert					
<b>PWXOR/L 2525M-10-TF-IQ</b>	25.0	25.0	25.0	150.00	31.0	29.00	-6.0	-6.0	WOMG 1007-IQ	TWN 5-4-IQ	SP D1.5-L10 <sup>(a)</sup>	SR LCS 5	LR 5	HW 3.0
<b>PWXOR/L 3232P-10-TF-IQ</b>	32.0	32.0	32.0	170.00	31.0	36.00	-6.0	-6.0	WOMG 1007-IQ	TWN 5-4-IQ	SP D1.5-L10 <sup>(a)</sup>	SR LCS 5	LR 5	HW 3.0
<b>PWXOR/L 4040S-10-TF-IQ</b>	40.0	40.0	40.0	250.00	31.0	44.00	-6.0	-6.0	WOMG 1007-IQ	TWN 5-4-IQ	SP D1.5-L10 <sup>(a)</sup>	SR LCS 5	LR 5	HW 3.0

<sup>(a)</sup> Seat Pin

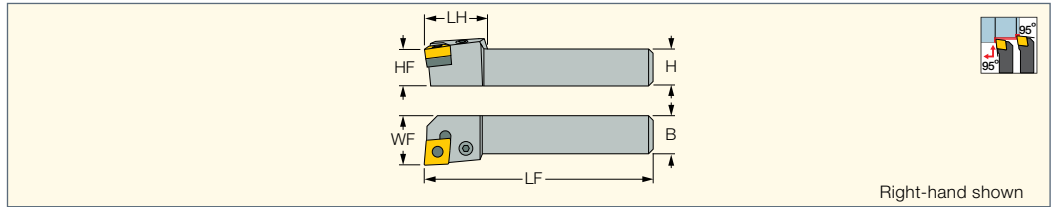
For inserts, see pages: WOMG-10-T3P-IQ (136)



**ISOTURN**

**PCLNR/L**

Lever Lock Tools Carrying 80°  
Negative Rhombic Inserts



Designation	H	HF	B	LF	LH	WF	Insert
<b>PCLNR/L 2020K-12</b>	20.0	20.0	20.0	125.00	27.5	25.00	CNMG 1204..
<b>PCLNR/L 2525M-12</b>	25.0	25.0	25.0	150.00	27.8	32.00	CNMG 1204..
<b>PCLNR/L 3232P-12</b>	32.0	32.0	32.0	170.00	27.6	40.00	CNMG 1204..
<b>PCLNR/L 3232P-19</b>	32.0	32.0	32.0	170.00	38.0	40.00	CNMG 1906..
<b>PCLNR/L 4040S-25</b>	40.0	40.0	40.0	250.00	47.0	50.00	CNMG 2509..
<b>PCLNR 5050T-25</b>	50.0	50.0	50.0	300.00	47.0	60.00	CNMG 2509..

**For inserts, see pages:** CNGA-J(CBN) (226) • CNGG-J(CBN) (227) • CNMG-F3S (147) • CNMG-F3P (144) • CNMG-M3P (144) • CNMM-R3P (153) • CNMM-M4PW (152) • CNMG-CERMET (145) • CNMG-F3M (146) • CNMG-M3M (146) • CNMG-R3M (147) • CNMG/CNGG-TF (150) • CNMG-GN (151) • CNMG-NR (151) • CNMM-NR (154) • CNMG/CNGG-PP (150) • CNMG-VL (147) • CNMG-MR (151) • CNMG/CNGG-SF (148) • CNMG-NF (148) • CNMG-WF (148) • CNMG-WG/NRW (149) • CNMS-12 (214) • CNMM-H3P (153) • CNMM-H4P (153) • CNMM-H5P (154) • CNMA (149) • CNGA-Ceramic (217) • CNMG-Ceramic (216) • CNGA-2 (CBN) (226) • CNGA-4 (CBN) (225) • CNGG-M4HF/M4HM (CBN) (226) • CNMA-MW4 (CBN) (225) • CNMA-T/M1/WG (CBN) (225) • CNMA (PCD) (221)

**Spare Parts**

Designation							
<b>PCLNR/L 2020K-12</b>	TCN 423		SP 4	LR 4	SR 117-2010	HW 3.0	PN 3-4
<b>PCLNR/L 2525M-12</b>	TCN 423		SP 4	LR 4	SR 117-2010	HW 3.0	PN 3-4
<b>PCLNR/L 3232P-12</b>	TCN 423		SP 4	LR 4	SR 117-2010	HW 3.0	PN 3-4
<b>PCLNR/L 3232P-19</b>	TCN 63		SP 66	LR 6	SR 10402352	HW 4.0	
<b>PCLNR/L 4040S-25</b>	TCN 84N	TCN 85N*	SP 8	LR 8	SR 10402264		
<b>PCLNR 5050T-25</b>	TCN 84N	TCN 85N*	SP 8	LR 8	SR 10402264		

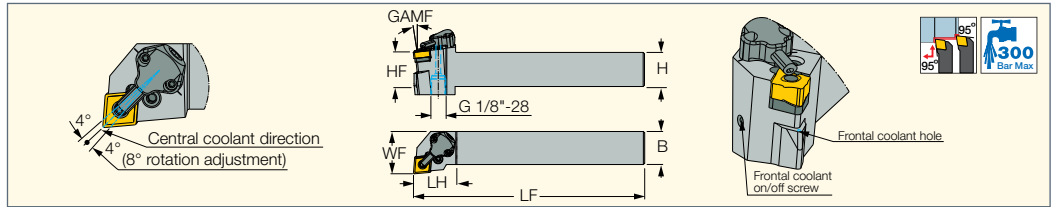
\* Optional, should be ordered separately





# ISOTURN JETCUT

**PCLNR/L-12-JHP**  
Lever Lock Tools with Channels for High-Pressure Coolant Carrying 80° Negative Rhombic Inserts



Designation	H	HF	B	LF	LH	WF	GAMF	Insert
PCLNR/L 2525M-12-JHP	25.0	25.0	25.0	150.00	33.0	32.00	-6.0	CNMG 1204
PCLNR/L 3232P-12-JHP	32.0	32.0	32.0	170.00	33.0	40.00	-6.0	CNMG 1204

- For user guide, see pages 78-84
- For inserts, see pages: CNGA-J(CBN) (226) • CNGG-J(CBN) (227) • CNMG-CERMET (145) • CNMG-F3S (147) • CNMG-F3P (144) • CNMG-M3P (144) • CNMM-R3P (153) • CNMM-M4PW (152) • CNMG-F3M (146) • CNMG-M3M (146) • CNMG/CNGG-TF (150) • CNMG-GN (151) • CNMG-NR (151) • CNMG/CNGG-PP (150) • CNMG-VL (147) • CNMG/CNGG-SF (148) • CNMG-NF (148) • CNMG-WF (148) • CNMG-WG/NRW (149) • CNMS-12 (214) • CNMA (149) • CNGA-Ceramic (217) • CNMG-Ceramic (216) • CNGA-2 (CBN) (226) • CNGA-4 (CBN) (225) • CNGG-M4HF/M4HM (CBN) (226) • CNMA-MW4 (CBN) (225) • CNMA-T/M1/WG (CBN) (225) • CNMA (PCD) (221)

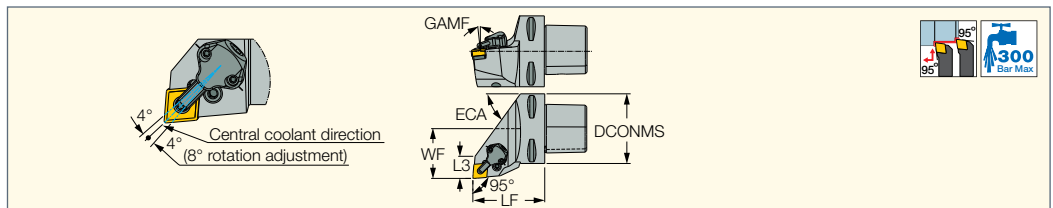
## Spare Parts

Designation										
PCLNR/L-12-JHP	TCN 423	SP 4	LR 4	SR 117-2010	PN 3-4	CU-CW-JHP	SR M4X4 DIN913 TL360	HW 2.0	HW 3.0	T-8/5

# ISOTURN JETCUT

## CAMFIX

**C#-PCLNR/L-12-JHP**  
Lever Lock Tools with Channels for High-Pressure Coolant and CAMFIX Shanks Carrying 80° Negative Rhombic Inserts



Designation	DCONMS	WF	LF	L3	ECA	GAMF	Insert	CDI <sup>(1)</sup>	CP <sup>(2)</sup>
C6 PCLNR/L-45065-12-JHP	63.00	45.00	65.00	20.00	54.0	-6.0	CNMG 1204	1	300

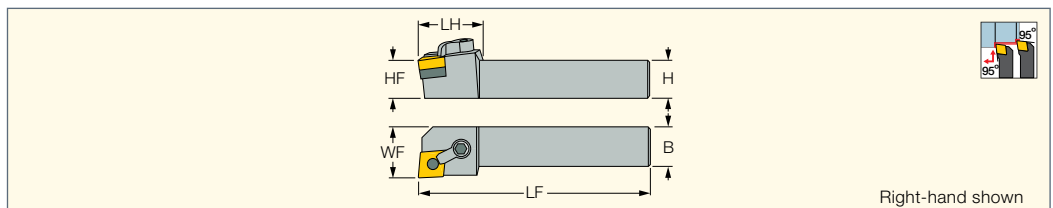
- For user guide, see pages 78-84
- <sup>(1)</sup> 1 - Hole for data chip, 0 - Without hole for data chip
- <sup>(2)</sup> Coolant pressure (Bar)
- For inserts, see pages: CNGA-J(CBN) (226) • CNGG-J(CBN) (227) • CNMG-CERMET (145) • CNMG-F3S (147) • CNMG-F3P (144) • CNMG-M3P (144) • CNMM-R3P (153) • CNMM-M4PW (152) • CNMG-F3M (146) • CNMG-M3M (146) • CNMG/CNGG-TF (150) • CNMG-GN (151) • CNMG-NR (151) • CNMG/CNGG-PP (150) • CNMG-VL (147) • CNMG/CNGG-SF (148) • CNMG-NF (148) • CNMG-WF (148) • CNMG-WG/NRW (149) • CNMS-12 (214) • CNMA (149) • CNGA-Ceramic (217) • CNMG-Ceramic (216) • CNGA-2 (CBN) (226) • CNGA-4 (CBN) (225) • CNGG-M4HF/M4HM (CBN) (226) • CNMA-MW4 (CBN) (225) • CNMA-T/M1/WG (CBN) (225) • CNMA (PCD) (221)

## Spare Parts

Designation									
C6 PCLNR/L-45065-12-JHP	TCN 423	SP 4	LR 4	SR 117-2010	PN 3-4	CU-CW-JHP	HW 3.0	T-8/5	
C6 PCLNR-45065-12-JHP	TCN 423	SP 4	LR 4	SR 117-2010	PN 3-4	CU-CW-JHP	HW 3.0	T-8/5	SR M5X5 DIN913 TL360

# ISOTURN

**MCLNR/L**  
Pin and Clamp Tools Carrying 80° Negative Rhombic Inserts



Designation	H	HF	B	LF	LH	WF	Insert
MCLNR 2525M-16	25.0	25.0	25.0	150.00	30.0	32.00	CNMG 1606..
MCLNR 3232P-16	32.0	32.0	32.0	170.00	30.0	40.00	CNMG 1606..
MCLNL 3232P-19	32.0	32.0	32.0	170.00	35.0	40.00	CNMG 1906..

- For inserts, see pages: CNMG-M3P (144) • CNMM-R3P (153) • CNMG-M3M (146) • CNMG-R3M (147) • CNMG/CNGG-TF (150) • CNMG-GN (151) • CNMG-NR (151) • CNMM-NR (154) • CNMG/CNGG-PP (150) • CNMG-MR (151) • CNMM-H3P (153) • CNMM-H4P (153) • CNMA (149)

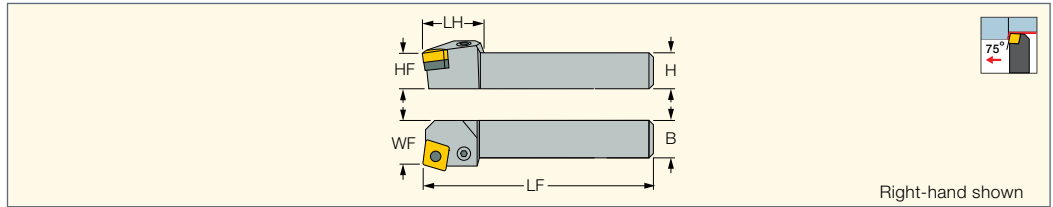
## Spare Parts

Designation				
MCLNR 2525M-16	TCT 533	LC 30 SET 1	ZN 54M	HW 3.0
MCLNR 3232P-16	TCT 533	LC 30 SET 1	ZN 54M	HW 3.0
MCLNL 3232P-19	TCT 634	LC80 SET-1	ZN 64	HW 4.0

**ISOTURN**

**PCBNR/L**

Lever Lock Tools using the 100° Corner of CNMG Inserts



Right-hand shown

Designation	H	HF	B	LF	LH	WF	Insert
PCBNR/L 2525M-12	25.0	25.0	25.0	150.00	27.7	22.00	CNMG 1204..
PCBNR/L 3232P-19	32.0	32.0	32.0	170.00	37.0	27.00	CNMG 1906..
PCBNR 4040S-19	40.0	40.0	40.0	250.00	37.0	37.00	CNMG 1906..

- For inserts, see pages:** CNMG-CERMET (145) • CNMG-F3S (147) • CNMG-F3P (144) • CNMG-M3P (144) • CNMM-R3P (153) • CNMM-M4PW (152) • CNMG-F3M (146) • CNMG-M3M (146) • CNMG-R3M (147) • CNMG/CNGG-TF (150) • CNMG-GN (151) • CNMG-NR (151) • CNMM-NR (154) • CNMG/CNGG-PP (150) • CNMG-VL (147) • CNMG-MR (151) • CNMG/CNGG-SF (148) • CNMG-NF (148) • CNMG-WF (148) • CNMG-WG/NRW (149) • CNMS-12 (214) • CNMM-H3P (153) • CNMM-H4P (153) • CNMA (149) • CNGA-Ceramic (217) • CNMG-Ceramic (216)

**Spare Parts**

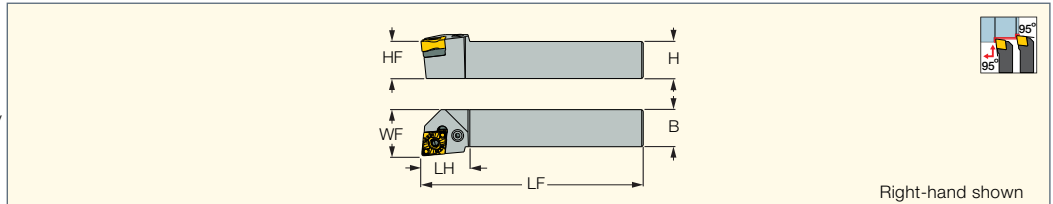
Designation						
PCBNR/L 2525M-12	TCN 423	SP 4	PN 3-4	LR 4	SR 117-2010	HW 3.0
PCBNR/L 3232P-19	TCN 63	SP 66		LR 6	SR 10402352	HW 4.0
PCBNR 4040S-19	TCN 63	SP 66		LR 6	SR 10402352	HW 4.0

**HELITURN LD**

**FLASHTURN**  
ECO LINE

**PCLNR/L-X**

Lever Lock Tools Carrying CNMX/  
CNMG 80° Rhombic Inserts

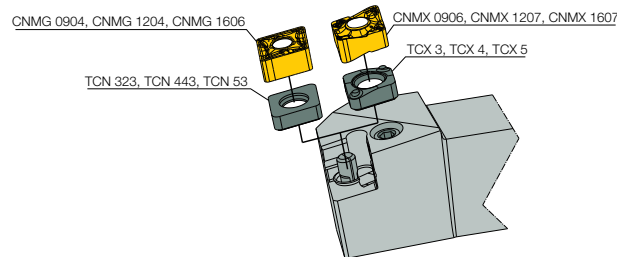


Right-hand shown

Designation	B	H	LF	LH	WF	Insert
PCLNR 1616H-09X	16.0	16.0	150.00	25.0	25.00	CNMX 0906 CNMG 0904
PCLNR/L 2020K-09X	20.0	20.0	125.00	25.0	25.00	CNMX 0906 CNMG 0904
PCLNR/L 2525M-09X	25.0	25.0	150.00	25.0	32.00	CNMX 0906 CNMG 0904
PCLNR/L 2020K-12X	20.0	20.0	125.00	31.0	25.00	CNMX 1207 CNMG 1204
PCLNR/L 2525M-12X	25.0	25.0	150.00	31.0	32.00	CNMX 1207 CNMG 1204
PCLNR/L 3232P-12X	32.0	32.0	170.00	32.0	40.00	CNMX 1207 CNMG 1204
PCLNR/L 3232P-16X	32.0	32.0	170.00	32.0	40.00	CNMX 1607 CNMG 1606

• Supplied with TCX 3 seat for CNMX 0906.. inserts and TCN 323 seat for CNMG 0904.. inserts, TCX 4 seat for CNMX 1207.. inserts and TCN 443 seat for CNMG 1204.. inserts, TCX 5 seat for CNMX 1607.. inserts and TCN 53 seat for CNMG 1606.. inserts.

- For inserts, see pages:** CNGA-J(CBN) (226) • CNGG-F3N (209) • CNGG-J(CBN) (227) • CNGX-M3N (209) • CNMG-CERMET (145) • CNMG-F3S (147) • CNMG-F3P (144) • CNMG-M3P (144) • CNMM-R3P (153) • CNMX-M3/4PW (152) • CNMM-M4PW (152) • CNMG-F3M (146) • CNMG-M3M (146) • CNMG-R3M (147) • CNMX-M3/4MW (152) • CNMG/CNGG-TF (150) • CNMG-GN (151) • CNMG-NR (151) • CNMG/CNGG-PP (150) • CNMG-VL (147) • CNMG-MR (151) • CNMG/CNGG-SF (148) • CNMG-NF (148) • CNMG-WF (148) • CNMG-WG/NRW (149) • CNMS-12 (214) • CNMA (149) • CNGA-Ceramic (217) • CNMG-Ceramic (216) • CNGA-2 (CBN) (226) • CNGA-4 (CBN) (225) • CNGG-M4HF/M4HM (CBN) (226) • CNMA-MW4 (CBN) (225) • CNMA-T/M1/WG (CBN) (225) • CNMA (PCD) (221)



**Spare Parts**

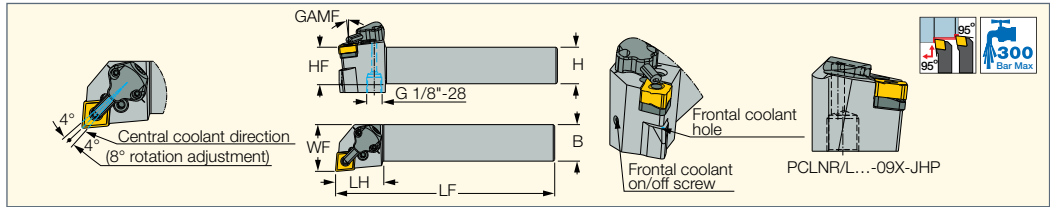
Designation								
PCLNR/L 2020K-09X	TCX 3 <sup>(a)</sup>	TCN 323	SP 3	LR 3	SR 117-2014	HW 2.5	PN 3-4	
PCLNR/L 2525M-09X	TCX 3 <sup>(a)</sup>	TCN 323	SP 3	LR 3	SR 117-2014	HW 2.5	PN 3-4	
PCLNR/L 2020K-12X	TCX 4	TCN 443	SP 4	LR 4DH	SR 117-2010	HW 3.0	PN 3-4L	LR 4DHTL (MR INJ)*
PCLNR/L 2525M-12X	TCX 4	TCN 443	SP 4	LR 4DH	SR 117-2010	HW 3.0	PN 3-4L	LR 4DHTL (MR INJ)*
PCLNR/L 3232P-12X	TCX 4	TCN 443	SP 4	LR 4DH	SR 117-2010	HW 3.0	PN 3-4L	LR 4DHTL (MR INJ)*
PCLNR/L 3232P-16X	TCX 5	TCN 53	SP 5	LR 5	SR LCS 5	HW 3.0	SPP 5-6	

\* Optional, should be ordered separately

<sup>(a)</sup> For CNMX 0906.. (CNMX 34.) inserts



**PCLNR/L-X-JHP**  
Lever Lock Tools with Channels for High-Pressure Coolant Carrying CNMX/CNMG 80° Rhombic Inserts



Designation	B	H	HF	LF	LH	WF	GAMF	Insert
PCLNR/L 1616H-09X-JHP	16.0	16.0	16.0	100.00	20.0	20.00	-6.0	CNMX 0906, CNMG 0904
PCLNR/L 2020K-09X-JHP	20.0	20.0	20.0	125.00	25.0	25.00	-6.0	CNMX 0906, CNMG 0904
PCLNR/L 2525M-09X-JHP	25.0	25.0	25.0	150.00	25.0	32.00	-6.0	CNMX 0906, CNMG 0904
PCLNR/L 2525M-12X-JHP	25.0	25.0	25.0	150.00	25.0	32.00	-6.0	CNMX 1207, CNMG 1204
PCLNR/L 3232P-12X-JHP	32.0	32.0	32.0	170.00	33.0	40.00	-6.0	CNMX 1207, CNMG 1204

• Supplied with TCX 3 seat for CNMX 0906.. inserts and TCN 323 seat for CNMG 0904.. inserts. TCX 4 seat for CNMX 1207.. inserts and TCN 443 seat for CNMG 1204.. inserts.

• For user guide, see pages 78-84

**For inserts, see pages:** CNGA-J(CBN) (226) • CNGG-J(CBN) (227) • CNMG-F3S (147) • CNMG-F3P (144) • CNMG-M3P (144) • CNMG-M3R3P (153) • CNMX-M3/4PW (152) • CNMG-M3/4PW (152) • CNGG-F3N (209) • CNMG-CERMET (145) • CNMG-F3M (146) • CNMG-M3M (146) • CNMX-M3/4MW (152) • CNMG/CNGG-TF (150) • CNMG-GN (151) • CNMG-NR (151) • CNMG/CNGG-PP (150) • CNMG-VL (147) • CNMG/CNGG-SF (148) • CNMG-NF (148) • CNMG-WF (148) • CNMG-WG/NRW (149) • CNMS-12 (214) • CNMA (149) • CNGA-Ceramic (217) • CNMG-Ceramic (216) • CNGA-2 (CBN) (226) • CNGA-4 (CBN) (225) • CNGG-M4HF/M4HM (CBN) (226) • CNMA-MW4 (CBN) (225) • CNMA-T/M1/WG (CBN) (225) • CNMA (PCD) (221)

**Spare Parts**

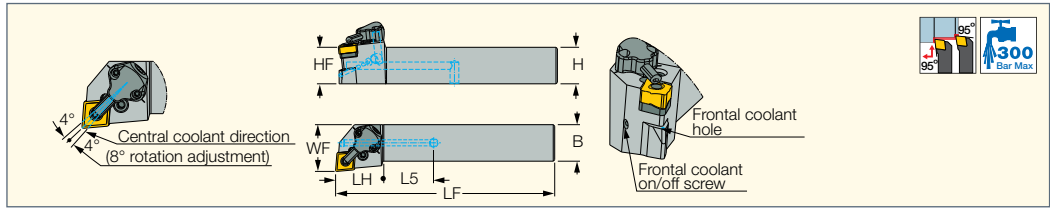
Designation												
PCLNR/L 1616H-09X-JHP	TCX 3 <sup>(a)</sup>	TCN 323 <sup>(d)</sup>	SP 3	LR 3	SR 117-2014	PN 3-4				HW 2.5		
PCLNR/L 2020K-09X-JHP	TCX 3 <sup>(a)</sup>	TCN 323 <sup>(d)</sup>	SP 3	LR 3	SR 117-2014	PN 3-4				HW 2.5		
PCLNR/L 2525M-09X-JHP	TCX 3 <sup>(a)</sup>	TCN 323 <sup>(d)</sup>	SP 3	LR 3	SR 117-2014	PN 3-4				HW 2.5		
PCLNR/L 2525M-12X-JHP	TCX 4 <sup>(b)</sup>	TCN 443 <sup>(c)</sup>	SP 4	LR 4DH	SR 117-2010	PN 3-4L	CU-CW-JHP	T-8/5	LR 4DHTL (MR INJ)*	HW 2.0	HW 3.0	SR M4X4 DIN913 TL360
PCLNR/L 3232P-12X-JHP	TCX 4 <sup>(b)</sup>	TCN 443 <sup>(c)</sup>	SP 4	LR 4DH	SR 117-2010	PN 3-4L	CU-CW-JHP	T-8/5	LR 4DHTL (MR INJ)*	HW 2.0	HW 3.0	SR M4X4 DIN913 TL360

\* Optional, should be ordered separately <sup>(a)</sup> For CNMX 0906.. (CNMX 34.) inserts <sup>(b)</sup> For CNMX 1207.. (CNMX 45.) inserts

<sup>(c)</sup> For CNMG 0904.. (CNMG 33.) inserts <sup>(d)</sup> For CNMG 1204.. (CNMG 43.) inserts



**PCLNR/L-X-JHP-MC**  
Lever Lock Tools with Bottom Inlets for High-Pressure Coolant Channels Carrying CNMX/CNMG 80° Rhombic Inserts

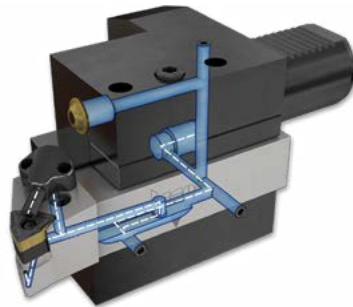


Designation	B	H	HF	LF	LH	L5	WF	Insert
PCLNR/L 2020X-09X-JHP-MC	20.0	20.0	20.0	97.00	27.0	29.00	25.00	CNMX 0906, CNMG 0904
PCLNR/L 2525X-09X-JHP-MC	25.0	25.0	25.0	118.00	33.0	35.00	32.00	CNMX 0906, CNMG 0904
PCLNR/L 2020X-12X-JHP-MC	20.0	20.0	20.0	97.00	27.0	29.00	25.00	CNMX 1207, CNMG 1204
PCLNR/L 2525X-12X-JHP-MC	25.0	25.0	25.0	118.00	33.0	35.00	32.00	CNMX 1207, CNMG 1204

• Supplied with TCX 3 seat for CNMX 0906.. inserts and TCN 323 seat for CNMG 0904.. inserts. TCX 4 seat for CNMX 1207.. inserts and TCN 443 seat for CNMG 1204.. inserts.

• For user guide, see pages 78-84

**For inserts, see pages:** CNGA-J(CBN) (226) • CNGG-J(CBN) (227) • CNMG-F3S (147) • CNMG-F3P (144) • CNMG-M3P (144) • CNMG-M3R3P (153) • CNMG-CERMET (145) • CNGG-F3N (209) • CNMX-M3/4PW (152) • CNMG-M3/4PW (152) • CNGG-F3M (146) • CNMG-M3M (146) • CNMX-M3/4MW (152) • CNMG/CNGG-TF (150) • CNMG-GN (151) • CNMG-NR (151) • CNMG/CNGG-PP (150) • CNMG-VL (147) • CNMG/CNGG-SF (148) • CNMG-NF (148) • CNMG-WF (148) • CNMG-WG/NRW (149) • CNMS-12 (214) • CNMA (149) • CNGA-Ceramic (217) • CNMG-Ceramic (216) • CNGA-2 (CBN) (226) • CNGA-4 (CBN) (225) • CNGG-M4HF/M4HM (CBN) (226) • CNMA-MW4 (CBN) (225) • CNMA-T/M1/WG (CBN) (225) • CNMA (PCD) (221)



**Spare Parts**

Designation																
PCLNR/L 2020X-09X-JHP-MC	TCX 3 <sup>(a)</sup>	TCN 323 <sup>(d)</sup>	SP 3	LR 3	SR 117-2014	PN 3-4	HW 2.5	CU-CW-JHP	SR M5X5 DIN913 TL360	T-8/5						
PCLNR/L 2525X-09X-JHP-MC	TCX 3 <sup>(a)</sup>	TCN 323 <sup>(d)</sup>	SP 3	LR 3	SR 117-2014	PN 3-4	HW 2.5	CU-CW-JHP	SR M5X5 DIN913 TL360	T-8/5						
PCLNR/L 2020X-12X-JHP-MC	TCX 4 <sup>(b)</sup>	TCN 443 <sup>(c)</sup>	SP 4	LR 4DH	SR 117-2010	PN 3-4L	HW 2.5	CU-CW-JHP	SR M5X5 DIN913 TL360	HW 3.0	T-8/5	LR 4DHTL (MR INJ)*				
PCLNR/L 2525X-12X-JHP-MC	TCX 4 <sup>(b)</sup>	TCN 443 <sup>(c)</sup>	SP 4	LR 4DH	SR 117-2010	PN 3-4L	HW 2.5	CU-CW-JHP	SR M5X5 DIN913 TL360	HW 3.0	T-8/5	LR 4DHTL (MR INJ)*				

\* Optional, should be ordered separately <sup>(a)</sup> For CNMX 0906.. (CNMX 34.) inserts <sup>(b)</sup> For CNMX 1207.. (CNMX 45.) inserts

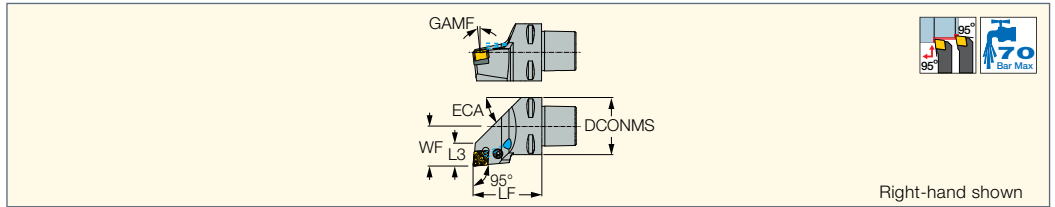
<sup>(c)</sup> For CNMG 0904.. (CNMG 33.) inserts <sup>(d)</sup> For CNMG 1204.. (CNMG 43.) inserts

**HELITURN LD**

**CAMFIX**

**C#-PCLNR/L-X**

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



Right-hand shown

Designation	DCONMS	WF	LF	GAMF	L3	ECA	Insert	CDI <sup>(2)</sup>	CP <sup>(3)</sup>
<b>C4 PCLNR/L-27050-12X</b> <sup>(1)</sup>	40.00	27.00	50.00	6.0	20.00	40.0	CNMX 1207, CNMG 1204	1	70
<b>C5 PCLNR/L-35060-12X</b> <sup>(1)</sup>	50.00	35.00	60.00	6.0	20.00	45.0	CNMX 1207, CNMG 1204	1	70
<b>C6 PCLNR/L-45065-12X</b> <sup>(1)</sup>	63.00	45.00	65.00	6.0	20.00	54.0	CNMX 1207, CNMG 1204	1	70
<b>C4 PCLNR/L-27050-16X</b>	40.00	27.00	50.00	6.0	21.00	40.0	CNMX 1607, CNMG 1606	1	70
<b>C5 PCLNR/L-35060-16X</b>	50.00	35.00	60.00	6.0	21.00	45.0	CNMX 1607, CNMG 1606	1	70
<b>C6 PCLNR/L-45065-16X</b>	63.00	45.00	65.00	6.0	21.00	54.0	CNMX 1607, CNMG 1606	1	70

<sup>(1)</sup> Supplied with TCX 4 seat for CNMX 1207.. inserts and TCN 443 seat for CNMG 1204.. inserts.

<sup>(2)</sup> 1 - Hole for data chip, 0 - Without hole for data chip

<sup>(3)</sup> Coolant pressure (Bar)

**For inserts, see pages:** CNGA-J(CBN) (226) • CNGG-J(CBN) (227) • CNMG-CERMET (145) • CNMG-F3S (147) • CNMX-M3/4PW (152) • CNMX-M3/4MW (152) • CNMG-F3P (144) • CNMG-M3P (144) • CNMM-R3P (153) • CNMM-M4PW (152) • CNMG-F3M (146) • CNMG-M3M (146) • CNMG-R3M (147) • CNMG/CNGG-TF (150) • CNMG-GN (151) • CNMG-NR (151) • CNMG/CNGG-PP (150) • CNMG-VL (147) • CNMG-MR (151) • CNMG/CNGG-SF (148) • CNMG-NF (148) • CNMG-WF (148) • CNMG-WG/NRW (149) • CNMS-12 (214) • CNMA (149) • CNGA-Ceramic (217) • CNMG-Ceramic (216) • CNGA-2 (CBN) (226) • CNGA-4 (CBN) (225) • CNGG-M4HF/M4HM (CBN) (226) • CNMA-MW4 (CBN) (225) • CNMA-T/M1/WG (CBN) (225) • CNMA (PCD) (221)

**Spare Parts**

Designation									
<b>C4 PCLNL-27050-12X</b>	TCX 4	TCN 443	SP 4	PN 3-4L	LR 4DH	SR 117-2010	HW 3.0	EZ 62	LR 4DHTL (MR INJ)*
<b>C4 PCLNR-27050-12X</b>	TCX 4	TCN 443	SP 4	PN 3-4L	LR 4DH	SR 117-2010	HW 3.0	EZ 62	LR 4DHTL (MR INJ)*
<b>C5 PCLNL-35060-12X</b>	TCX 4	TCN 443	SP 4	PN 3-4L	LR 4DH	SR 117-2010	HW 3.0	EZ 83	LR 4DHTL (MR INJ)*
<b>C5 PCLNR-35060-12X</b>	TCX 4	TCN 443	SP 4	PN 3-4L	LR 4DH	SR 117-2010	HW 3.0	EZ 83	LR 4DHTL (MR INJ)*
<b>C6 PCLNL-45065-12X</b>	TCX 4	TCN 443	SP 4	PN 3-4L	LR 4DH	SR 117-2010	HW 3.0	EZ 83	LR 4DHTL (MR INJ)*
<b>C6 PCLNR-45065-12X</b>	TCX 4	TCN 443	SP 4	PN 3-4L	LR 4DH	SR 117-2010	HW 3.0	EZ 83	LR 4DHTL (MR INJ)*
<b>C4 PCLNL-27050-16X</b>	TCX 5	TCN 53	SP 5		LR 5	SR LCS 5	HW 3.0	EZ 104	
<b>C4 PCLNR-27050-16X</b>	TCX 5	TCN 53	SP 5		LR 5	SR LCS 5	HW 3.0	EZ 104	
<b>C5 PCLNL-35060-16X</b>	TCX 5	TCN 53	SP 5	SPP 5-6	LR 5	SR LCS 5	HW 3.0	EZ 125	
<b>C5 PCLNR-35060-16X</b>	TCX 5	TCN 53	SP 5		LR 5	SR LCS 5	HW 3.0	EZ 125	
<b>C6 PCLNL-45065-16X</b>	TCX 5	TCN 53	SP 5	SPP 5-6	LR 5	SR LCS 5	HW 3.0	EZ 125	
<b>C6 PCLNR-45065-16X</b>	TCX 5	TCN 53	SP 5	SPP 5-6	LR 5	SR LCS 5	HW 3.0	EZ 125	

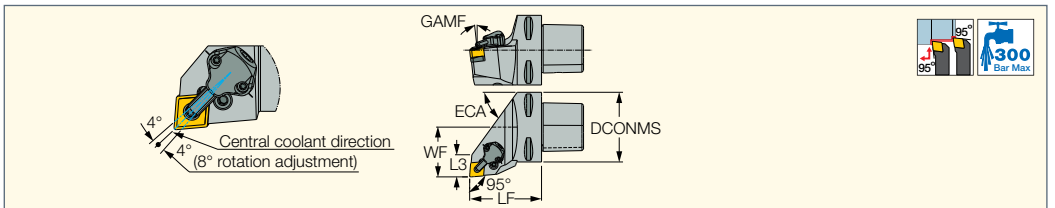
\* Optional, should be ordered separately

**HELITURN LD**

**JETCUT CAMFIX**

**C#-PCLNR/L-X-JHP**

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



Designation	DCONMS	WF	LF	L3	ECA	GAMF	Insert	CDI <sup>(3)</sup>	CP <sup>(4)</sup>
<b>C3 PCLNR-22045-09X-JHP</b> <sup>(1)</sup>	32.00	22.00	45.00	22.00	45.0	-6.0	CNMX 0906, CNMG 0904	0	300
<b>C4 PCLNR/L-27050-09X-JHP</b> <sup>(1)</sup>	40.00	27.00	50.00	24.00	45.0	-6.0	CNMX 0906, CNMG 0904	1	300
<b>C5 PCLNR/L-35060-09X-JHP</b> <sup>(1)</sup>	50.00	35.00	60.00	26.00	45.0	-6.0	CNMX 0906, CNMG 0904	1	300
<b>C4 PCLNR/L-27050-12X-JHP</b> <sup>(2)</sup>	40.00	27.00	50.00	18.00	54.0	-6.0	CNMX 1207, CNMG 1204	1	300
<b>C5 PCLNR/L-35060-12X-JHP</b> <sup>(2)</sup>	50.00	35.00	60.00	20.00	50.0	-6.0	CNMX 1207, CNMG 1204	1	300
<b>C6 PCLNR/L-45065-12X-JHP</b> <sup>(2)</sup>	63.00	45.00	65.00	20.00	54.0	-6.0	CNMX 1207, CNMG 1204	1	300

• For user guide, see pages 78-84

<sup>(1)</sup> Supplied with TCX 3 seat for CNMX 0906.. inserts and TCN 323 seat for CNMG 0904.. inserts.

<sup>(2)</sup> Supplied with TCX 4 seat for CNMX 1207.. inserts and TCN 443 seat for CNMG 1204.. inserts.

<sup>(3)</sup> 1 - Hole for data chip, 0 - Without hole for data chip

<sup>(4)</sup> Coolant pressure (Bar)

**For inserts, see pages:** CNGA-J(CBN) (226) • CNGG-F3N (209) • CNGG-J(CBN) (227) • CNGX-M3N (209) • CNMG-CERMET (145) • CNMG-F3S (147) • CNMX-M3/4MW (152) • CNMX-M3/4PW (152) • CNMG-F3P (144) • CNMG-M3P (144) • CNMM-R3P (153) • CNMM-M4PW (152) • CNMG-F3M (146) • CNMG-M3M (146) • CNMG/CNGG-TF (150) • CNMG-GN (151) • CNMG-NR (151) • CNMG/CNGG-PP (150) • CNMG-VL (147) • CNMG/CNGG-SF (148) • CNMG-NF (148) • CNMG-WF (148) • CNMG-WG/NRW (149) • CNMS-12 (214) • CNMA (149) • CNGA-Ceramic (217) • CNMG-Ceramic (216) • CNGA-2 (CBN) (226) • CNGA-4 (CBN) (225) • CNGG-M4HF/M4HM (CBN) (226) • CNMA-MW4 (CBN) (225) • CNMA-T/M1/WG (CBN) (225) • CNMA (PCD) (221)

**Spare Parts**

Designation										
<b>C3 PCLNR-22045-09X-JHP</b>	TCX 3 <sup>(a)</sup>	TCN 323	SP 3	LR 3	SR 117-2014	PN 3-4	CU-CW-JHP		T-8/5	HW 2.5
<b>C4 PCLNL-27050-09X-JHP</b>	TCX 3 <sup>(a)</sup>	TCN 323	SP 3	LR 3	SR 117-2014	PN 3-4	CU-CW-JHP		T-8/5	HW 2.5
<b>C4 PCLNR-27050-09X-JHP</b>	TCX 3 <sup>(a)</sup>	TCN 323	SP 3	LR 3	SR 117-2014	PN 3-4	CU-CW-JHP		T-8/5	HW 2.5
<b>C5 PCLNL-35060-09X-JHP</b>	TCX 3 <sup>(a)</sup>	TCN 323	SP 3	LR 3	SR 117-2014	PN 3-4	CU-CW-JHP		T-8/5	HW 2.5
<b>C5 PCLNR-35060-09X-JHP</b>	TCX 3 <sup>(a)</sup>	TCN 323	SP 3	LR 3	SR 117-2014	PN 3-4	CU-CW-JHP		T-8/5	HW 2.5
<b>C4 PCLNL-27050-12X-JHP</b>	TCX 4	TCN 443	SP 4	LR 4DH	SR 117-2010	PN 3-4L	CU-CW-JHP	LR 4DHTL (MR INJ)*	T-8/5	HW 3.0
<b>C4 PCLNR-27050-12X-JHP</b>	TCX 4	TCN 443	SP 4	LR 4DH	SR 117-2010	PN 3-4L	CU-CW-JHP	LR 4DHTL (MR INJ)*	T-8/5	HW 3.0
<b>C5 PCLNL-35060-12X-JHP</b>	TCX 4	TCN 443	SP 4	LR 4DH	SR 117-2010	PN 3-4L	CU-CW-JHP	LR 4DHTL (MR INJ)*	T-8/5	HW 3.0
<b>C5 PCLNR-35060-12X-JHP</b>	TCX 4	TCN 443	SP 4	LR 4DH	SR 117-2010	PN 3-4L	CU-CW-JHP	LR 4DHTL (MR INJ)*	T-8/5	HW 3.0
<b>C6 PCLNL-45065-12X-JHP</b>	TCX 4	TCN 443	SP 4	LR 4DH	SR 117-2010	PN 3-4L	CU-CW-JHP	LR 4DHTL (MR INJ)*	T-8/5	HW 3.0
<b>C6 PCLNR-45065-12X-JHP</b>	TCX 4	TCN 443	SP 4	LR 4DH	SR 117-2010	PN 3-4L	CU-CW-JHP	LR 4DHTL (MR INJ)*	T-8/5	HW 3.0

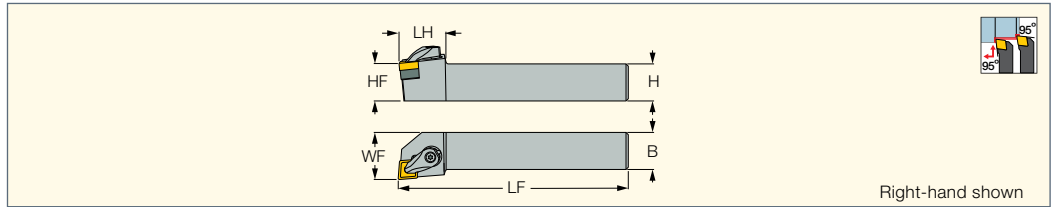
\* Optional, should be ordered separately

<sup>(a)</sup> For CNMX 0906.. (CNMX 34.) inserts



**DCLNR/L**

R-Clamp Tools with 95° Lead Angle Carrying 80° Negative Rhombic Inserts



Designation	H	HF	B	LF	LH	WF	Insert
DCLNR/L-2020K-09X <sup>(1)</sup>	20.0	20.0	20.0	125.00	25.0	25.00	CNMG 0904 CNMX 0906
DCLNR/L-2525M-09X <sup>(1)</sup>	25.0	25.0	25.0	150.00	25.0	32.00	CNMG 0904 CNMX 0906
DCLNR/L 2020K-12 <sup>(2)</sup>	20.0	20.0	20.0	125.00	35.0	25.00	CNMG 1204 CNMX 1207
DCLNR/L 2525M-12 <sup>(2)</sup>	25.0	25.0	25.0	150.00	35.0	32.00	CNMG 1204 CNMX 1207
DCLNR/L 3232P-12 <sup>(2)</sup>	32.0	32.0	32.0	170.00	35.0	40.00	CNMG 1204 CNMX 1207
DCLNR/L 2525M-16	25.0	25.0	25.0	150.00	36.0	32.00	CNMG 1606..
DCLNL 3232P-16	32.0	32.0	32.0	170.00	36.0	40.00	CNMG 1606..
DCLNR 3232P-16	32.0	32.0	32.0	170.00	33.0	40.00	CNMG 1606..
DCLNR/L 3232P-19	32.0	32.0	32.0	170.00	42.0	40.00	CNMG 1906..
DCLNR/L 4040S-19	40.0	40.0	40.0	250.00	42.0	50.00	CNMG 1906..

<sup>(1)</sup> Supplied with TCX 3 seat for CNMX 0906.. inserts and TCN 323 seat for CNMG 0904.. inserts.

<sup>(2)</sup> Use TCH 4 seat (optional) for CNMX 1207... insert.

- For inserts, see pages:** CNMG-F3P (144) • CNMG-M3P (144) • CNMM-R3P (153) • CNMM-M4PW (152) • CNMX-M3/4PW (152) • CNMG-F3M (146) • CNMG-M3M (146) • CNMG-R3M (147) • CNMX-M3/4MW (152) • CNGG-F3N (209) • CNMG-CERMET (145) • CNMG-M3N (209) • CNMG/CNGG-TF (150) • CNMG-GN (151) • CNMG-NR (151) • CNMM-NR (154) • CNMG/CNGG-PP (150) • CNMG-VL (147) • CNMG-MR (151) • CNMG/CNGG-SF (148) • CNMG-NF (148) • CNMG-WF (148) • CNMG-WG/NRW (149) • CNMM-H3P (153) • CNMM-H4P (153) • CNMA (149) • CNGA-Ceramic (217) • CNMG-Ceramic (216) • CNGA-2 (CBN) (226) • CNGA-4 (CBN) (225) • CNGG-M4HF/M4HM (CBN) (226) • CNMA-MW4 (CBN) (225) • CNMA-T/M1/WG (CBN) (225) • CNMA (PCD) (221) • CNGA-J(CBN) (226) • CNGG-J(CBN) (227) • CNMG-F3S (147)

**Spare Parts**

Designation										
DCLNR/L-2525M-09X	TCN 323	TCX 3 <sup>(a)</sup>	HW 2.5	SR RC3	LCGR-3					
DCLNR/L 2020K-12	RCT 443	TCH 4 <sup>(b)*</sup>		SR 14-506	LCGR-4		SR 10400270-25.5	T-15/5		
DCLNR/L 2525M-12	RCT 443	TCH 4 <sup>(b)*</sup>		SR 14-506	LCGR-4		SR 10400270-25.5	T-15/5		
DCLNR/L 3232P-12	RCT 443	TCH 4 <sup>(b)*</sup>		SR 14-506	LCGR-4		SR 10400270-25.5	T-15/5		
DCLNR/L 2525M-16	RCT 544		HW 4.0	SR 10402265	LCGR-5	KSP 5	SR 10402267			
DCLNR/L 3232P-16	RCT 544		HW 4.0	SR 10402265	LCGR-5	KSP 5	SR 10402267			
DCLNR/L 3232P-19	TCN 63		HW 4.0	SR 10402266	LCGR-6	KSP 5	SR 10402267			
DCLNR/L 4040S-19	TCN 63		HW 4.0	SR 10402266	LCGR-6	KSP 5	SR 10402267			

\* Optional, should be ordered separately

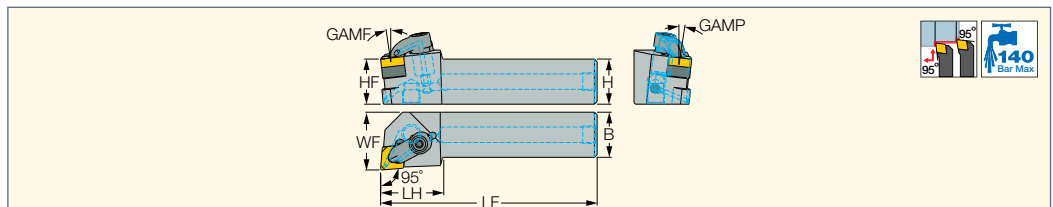
<sup>(a)</sup> For CNMX 0906.. (CNMX 34..) inserts

<sup>(b)</sup> TCH 4 seat for CNMX 1207.. (CNMX 45.) insert.

**JET RETURN RIGID CLAMP**

**DCLNR/L-JHP-MC**

Rigid Clamp Tools with Channels for High-Pressure Coolant Carrying 80° Rhombic Inserts



Designation	B	H	HF	LF	LH	WF	GAMP	GAMF	Insert
DCLNR/L 2020X-12-JHP-MC	20.0	20.0	20.0	105.00	35.0	25.00	6.0	6.0	CNMG 1204
DCLNR/L 2525X-12-JHP-MC	25.0	25.0	25.0	120.00	35.0	32.00	6.0	6.0	CNMG 1204

**For inserts, see pages:** CNGA-2 (CBN) (226) • CNGA-4 (CBN) (225) • CNGA-Ceramic (217) • CNGA-J(CBN) (226) • CNGG-J(CBN) (227)

- CNGG-M4HF/M4HM (CBN) (226) • CNMA (149) • CNMA (PCD) (221) • CNMA-MW4 (CBN) (225) • CNMA-T/M1/WG (CBN) (225) • CNMG-Ceramic (216) • CNMG-CERMET (145) • CNMG-F3M (146) • CNMG-F3P (144) • CNMG-F3S (147) • CNMG-GN (151) • CNMG-M3M (146) • CNMG-M3P (144) • CNMG-NF (148) • CNMG-NR (151) • CNMG-VL (147) • CNMG-WF (148) • CNMG-WG/NRW (149) • CNMG/CNGG-PP (150) • CNMG/CNGG-SF (148) • CNMG/CNGG-TF (150) • CNMM-M4PW (152) • CNMM-R3P (153) • CNMX-M3/4MW (152) • CNMX-M3/4PW (152)

**Spare Parts**

Designation							
DCLNL 2020X-12-JHP-MC	RCT 443	TCH 4 <sup>(a)*</sup>	LCGR/L-4JC SET <sup>(b)</sup>	PLG G1/8 TL360	OR 4X3 NBR70	SR 14-506	
DCLNR 2020X-12-JHP-MC	RCT 443	TCH 4 <sup>(a)*</sup>	LCGR/L-4JC SET <sup>(b)</sup>	PLG G1/8 TL360	OR 4X3 NBR70	SR 14-506	LCGR-C-4JC SET
DCLNL 2525X-12-JHP-MC	RCT 443	TCH 4 <sup>(a)*</sup>	LCGL-L-4JC SET <sup>(b)</sup>	PLG G1/8 TL360	OR 4X3 NBR70	SR 14-506	
DCLNR 2525X-12-JHP-MC	RCT 443			PLG G1/8 TL360		SR 14-506	LCGR-C-4JC SET

\* Optional, should be ordered separately

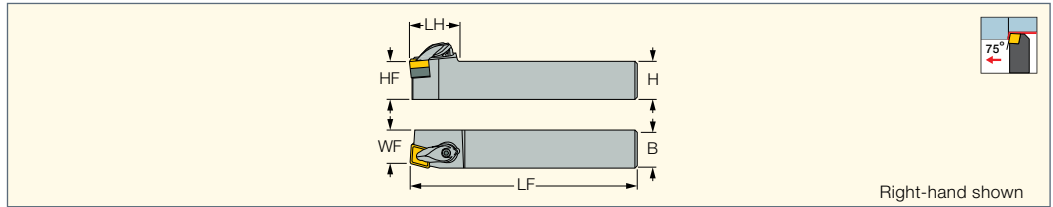
<sup>(a)</sup> For CNMX 1207.. (CNMX 45.) inserts

<sup>(b)</sup> Recommended tightening torque 4Nm for R-Clamp Screw

**ISOTURN**

**DCBNR/L**

R-Clamp Tools with 75° Lead Angle Using the 100° Corner of CNMG Inserts



Designation	H	HF	B	LF	LH	WF	Insert
DCBNR/L 2525M-12	25.0	25.0	25.0	150.00	36.0	22.00	CNMG 1204
DCBNR/L 3232P-19	32.0	32.0	32.0	170.00	42.0	27.00	CNMG 1906

For inserts, see pages: CNMG-CERMET (145) • CNMG-F3S (147) • CNMG-F3P (144) • CNMG-M3P (144) • CNMM-R3P (153) • CNMM-M4PW (152) • CNMG-F3M (146) • CNMG-M3M (146) • CNMG-R3M (147) • CNMG/CNGG-TF (150) • CNMG-GN (151) • CNMG-NR (151) • CNMM-NR (154) • CNMG/CNGG-PP (150) • CNMG-VL (147) • CNMG-MR (151) • CNMG/CNGG-SF (148) • CNMG-NF (148) • CNMG-WF (148) • CNMG-WG/NRW (149) • CNMM-H3P (153) • CNMM-H4P (153) • CNMA (149) • CNGA-Ceramic (217) • CNMG-Ceramic (216)

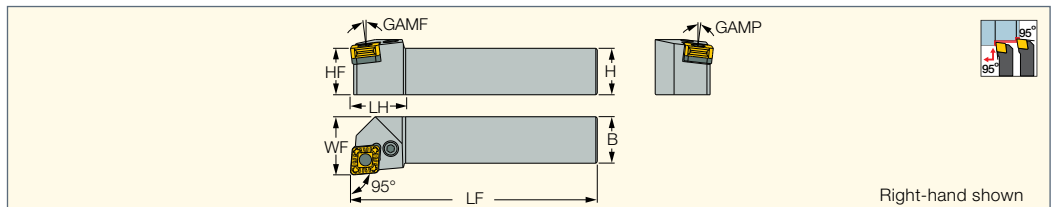
**Spare Parts**

Designation								
DCBNR/L 2525M-12	RCT 443	SR 14-506	LCGR-4	SR 10400270-25.5				T-15/5
DCBNR/L 3232P-19	TCN 63	SR 10402266	LCGR-6		KSP 5	SR 10402267	HW 4.0	

**DOVE IQTURN**  
HEAVY DUTY LINE

**PCLOR/L-IQ**

Lever Lock and Dovetail Pocket Rigid Clamping Toolholders for Unique Double-Sided 80° Rhombic Inserts



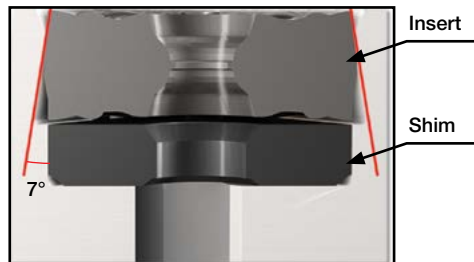
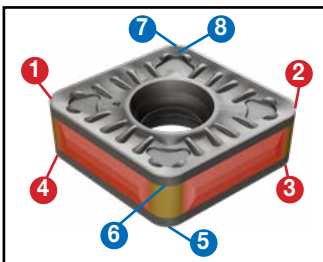
Designation	H	HF	B	LF	LH	WF	GAMP	GAMF	Insert
PCLOR/L 3232P-16-IQ	32.0	32.0	32.0	170.00	33.0	40.00	-6.0	-6.0	COMG 1606
PCLOR/L 3232P-19-IQ <sup>(1)</sup>	32.0	32.0	32.0	170.00	38.0	40.00	-6.0	-6.0	COMG 1906
PCLOR/L 4040S-19-IQ <sup>(1)</sup>	40.0	40.0	40.0	250.00	38.0	50.00	-6.0	-6.0	COMG 1906
PCLOR/L 4040S-25-IQ	40.0	40.0	40.0	250.00	50.0	50.00	-6.0	-6.0	COMG 2509
PCLOR/L 5050T-25-IQ	50.0	50.0	50.0	300.00	50.0	60.00	-6.0	-6.0	COMG 2509

<sup>(1)</sup> Supplied with TCX 6-IQ seat for COMG inserts, optional TCN 6-IQ seat should be ordered separately for COMM inserts

For inserts, see pages: COMG-R3P-IQ (145) • COMM-R3P-IQ (146)

4 Cutting Edges for 80° and 4 Cutting Edges for 100°

**DOVETAIL Clamping**



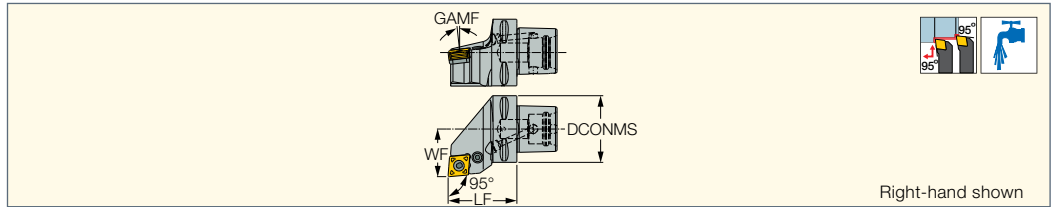
**Spare Parts**

Designation						
PCLOR/L 3232P-16-IQ	TCX 5-IQ		SR LCS 5-L25.5	LCL 16-NX	SP 5	HW 3.0
PCLOR/L 3232P-19-IQ	TCX 6-IQ	TCN 6-IQ*	SR 10402352	LCL 20C-NX	SP 5	HW 4.0
PCLOR/L 4040S-19-IQ	TCX 6-IQ	TCN 6-IQ*	SR 10402352	LCL 20C-NX	SP 5	HW 4.0
PCLOR/L 4040S-25-IQ	TCX 8-IQ		SR LCS 8-L39	LCL 32-NX	SP 8	HW 5.0
PCLOR/L 5050T-25-IQ	TCX 8-IQ		SR LCS 8-L39	LCL 32-NX	SP 8	HW 5.0

\* Optional, should be ordered separately

**C#-PCLOR/L-IQ**

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



Designation	DCONMS	WF	LF	GAMF	Insert
C6 PCLOR/L-45065-16-IQ	63.00	45.00	65.00	-6.0	COMG 1606
C6 PCLOR/L-45065-19-IQ	63.00	45.00	65.00	-6.0	COMG 1906
C8 PCLOR/L-55080-19-IQ	80.00	55.00	80.00	-6.0	COMG 1906
C8 PCLOR/L-55080-25-IQ	80.00	55.00	80.00	-6.0	COMG 2509

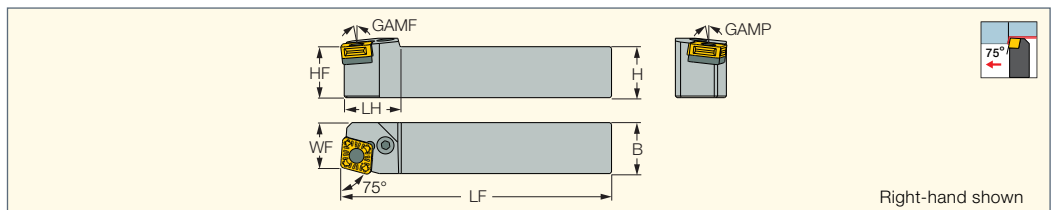
For inserts, see pages: COMG-R3P-IQ (145) • COMM-R3P-IQ (146)

**Spare Parts**

Designation							
C6 PCLOR/L-45065-16-IQ	TCX 5-IQ	LCL 16-NX	SP 5	SATZ-M10X1-M5	HW 3.0	SR LCS 5-L25.5	SPP 5-6
C6 PCLOR/L-45065-19-IQ	TCX 6-IQ	LCL 20C-NX	SP 5	SATZ-M10X1-M5	HW 4.0	SR 10402352	SPP 5-6
C8 PCLOR/L-55080-19-IQ	TCX 6-IQ	LCL 20C-NX	SP 5	SATZ-M10X1-M5	HW 4.0	SR 10402352	SPP 5-6
C8 PCLOR/L-55080-25-IQ	TCX 8-IQ	LCL 32-NX	SP 8	SATZ-M12X1-M6	HW 5.0	SR LCS 8-L39	SPP 5-6

**PCBOR/L-IQ**

Lever Lock and Dovetail Pocket  
Rigid Clamping Tools Carrying  
Unique Double-Sided  
80° Rhombic Inserts



Designation	H	HF	B	LF	LH	WF	GAMP	GAMF	Insert
PCBOR/L 3232P-16-IQ	32.0	32.0	32.0	170.00	32.0	27.00	-6.0	-6.0	COMG 1606
PCBOR/L 3232P-19-IQ	32.0	32.0	32.0	170.00	38.0	28.00	-6.0	-6.0	COMG 1906
PCBOR/L 4040S-19-IQ	40.0	40.0	40.0	250.00	38.0	37.00	-6.0	-6.0	COMG 1906
PCBOR/L 4040S-25-IQ	40.0	40.0	40.0	250.00	50.0	35.00	-6.0	-6.0	COMG 2509

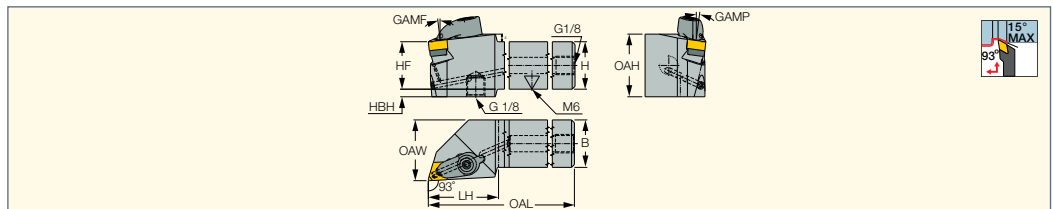
For inserts, see pages: COMG-R3P-IQ (145) • COMM-R3P-IQ (146)

**Spare Parts**

Designation					
PCBOR/L 3232P-16-IQ	TCX 5-IQ	SP 5	SR LCS 5-L25.5	LCL 16-NX	HW 3.0
PCBOR/L 3232P-19-IQ	TCX 6-IQ	SP 5	SR 10402352	LCL 20C-NX	HW 4.0
PCBOR/L 4040S-19-IQ	TCX 6-IQ	SP 5	SR 10402352	LCL 20C-NX	HW 4.0
PCBOR/L 4040S-25-IQ	TCX 8-IQ	SP 8	SR LCS 8-L39	LCL 32-NX	HW 5.0

**DXJNR/L-X-JHP-MC**

Rigid Clamp Tools with Channels  
for High-Pressure Coolant  
Carrying 70° Rhombic Inserts



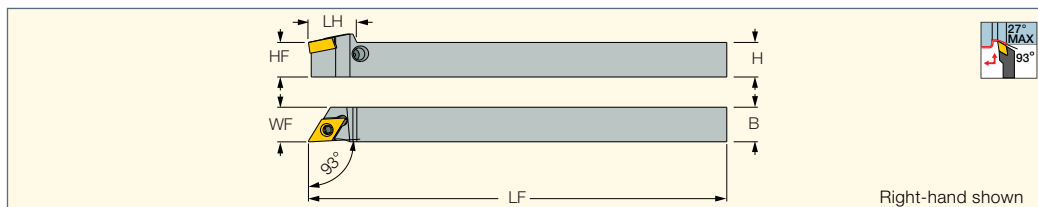
Designation	H	HF	HBH	LH	OAW	OAH	B	OAL	GAMP	GAMF	Insert			
DXJNL 2020X-09-JHP-MC	20.0	20.0	4.0	37.0	25.00	33.00	20.0	107.00	6.0	6.0	XNMG			
DXJNL 2020X-12-JHP-MC	20.0	20.0	4.0	37.0	25.00	33.00	20.0	107.00	6.0	6.0	XNMG			
DXJNR 2020X-09-JHP-MC	20.0	20.0	4.0	37.0	25.00	33.00	25.0	122.00	6.0	6.0	XNMG			
DXJNR 2020X-12-JHP-MC	20.0	20.0	4.0	37.0	25.00	33.00	25.0	122.00	6.0	6.0	XNMG			
DXJNL 2525X-09-JHP-MC	25.0	25.0	9.0	37.0	32.00	33.00	20.0	107.00	6.0	6.0	XNMG	LCGL-3JC-SET	LCGL-3JC-AM	OR 4X3 NBR70
DXJNL 2525X-12-JHP-MC	25.0	25.0	4.0	37.0	32.00	33.00	20.0	107.00	6.0	6.0	XNMG			
DXJNR 2525X-09-JHP-MC	25.0	25.0	9.0	37.0	32.00	33.00	25.0	122.00	6.0	6.0	XNMG			
DXJNR 2525X-12-JHP-MC	25.0	25.0	4.0	37.0	32.00	33.00	25.0	122.00	6.0	6.0	XNMG			
DXJNR/L 3232X-12-JHP-MC	32.0	32.0	0.0	37.0	40.00	33.00	32.0	137.00	6.0	6.0	XNMG			

For inserts, see pages: XNMG-F3M (155) • XNMG-F3P (154) • XNMG-M3M (155) • XNMG-M3P (154)

## ISOTURN

### PDJNR/L-S

Lever Lock Tools Carrying  
DNGP 0703.. Double-Sided  
55° Rhombic Inserts

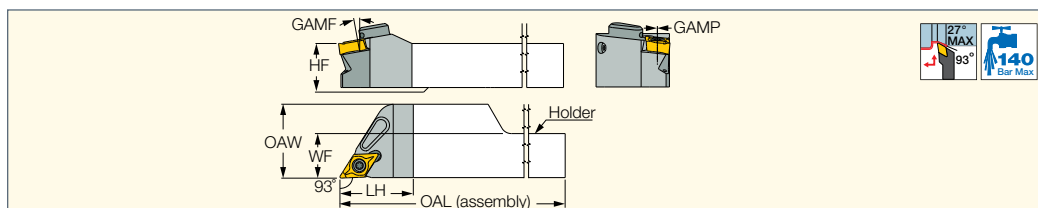


Designation	H	HF	B	LF	LH	WF	Insert				
PDJNR/L 1010X-07S	10.0	10.0	10.0	120.00	14.0	10.00	DNGP 07	SR 10400611	HW 2.0/5	SL LV-2	SL PI-2 PIN
PDJNR/L 1212F-07S	12.0	12.0	12.0	80.00	14.0	12.00	DNGP 07	SR 10400611	HW 2.0/5	SL LV-2	SL PI-2 PIN
PDJNR/L 1212X-07S	12.0	12.0	12.0	120.00	14.0	12.00	DNGP 07	SR 10400611	HW 2.0/5	SL LV-2	SL PI-2 PIN
PDJNR/L 1616X-07S	16.0	16.0	16.0	120.00	18.0	16.00	DNGP 07	SR 10400611	HW 2.0/5	SL LV-2	SL PI-2 PIN

• Use a left-hand insert on a right-hand tool and vice versa.  
For inserts, see pages: DNGP-F2M (156) • DNGP-F2P (155)

## NEOSWISS INDEXABLE HEADS MINIPTURN POSITIVE DOUBLE SIDED

**NQCH-SDJNR/L-S-JHP**  
Screw Lock Modular Heads with  
High-Pressure Coolant, Positive  
Double-Sided 55° Rhombic  
Inserts for Swiss-Type Machines



Designation	WF	HF	LH	OAL	OAW	GAMP	GAMF	Insert
NQCH12-SDJNR/L-07S-JHP	12.15	12.0	20.0	120.00	20.15	10.0	0.0	DNGP.. 0703
NQCH16-SDJNR/L-07S-JHP	16.15	16.0	20.0	120.00	20.15	10.0	0.0	DNGP.. 0703

For user guide, see pages 6-7, 78-84  
For holders, see pages: NQCH-JHP (61)

### Spare Parts

Designation		
NQCH-SDJNR/L-S-JHP	SR 34-514	T-7/5

## ISOTURN

### PDJNR/L

Lever Lock Tools Carrying 55°  
Negative Rhombic Inserts



Designation	H	HF	B	LF	LH	WF	Insert
PDJNR/L 1616H-11	16.0	16.0	16.0	100.00	30.0	20.00	DNMG 1104
PDJNR/L 2020K-11	20.0	20.0	20.0	125.00	30.0	25.00	DNMG 1104
PDJNR/L 2525M-11	25.0	25.0	25.0	150.00	30.0	32.00	DNMG 1104
PDJNR/L 2020K-15	20.0	20.0	20.0	125.00	34.0	25.00	DNMG 1506
PDJNR/L 2525M-15	25.0	25.0	25.0	150.00	34.0	32.00	DNMG 1506
PDJNR/L 3232P-15	32.0	32.0	32.0	170.00	34.0	40.00	DNMG 1506

For inserts, see pages: DNGA-J(CBN) (229) • DNGG-M3N (210) • DNMG-CERMET (158) • DNMG-F3S (157) • DNMG-F3P (156) • DNMG-M3P (156) • DNMX-M3P (162) • DNMM-R3P (162) • DNMG-F3M (157) • DNMG-M3M (157) • DNMG/DNGG-TF (160) • DNMG-GN (161) • DNMG-NR (161) • DNMG/DNGG-PP (160) • DNMG-VL (160) • DNMG-PF (159) • DNMG/DNGG-SF (159) • DNMG-NF (158) • DNMM-NM (162) • DNMG-WG (159) • DNMS-12 (214) • DNMA (161) • DNGA-Ceramic (218) • DNGA-2 (CBN) (229) • DNGA-4 (CBN) (229) • DNGG-M4HF/M4HM (CBN) (230) • DNMA (CBN) (228)

### Spare Parts

Designation							
PDJNR/L 1616H-11	TDN 322		SP 3	PN 3-4	LR 3D	SR 117-2014	HW 2.5/5
PDJNR/L 2020K-11	TDN 322		SP 3	PN 3-4	LR 3D	SR 117-2014	HW 2.5/5
PDJNR/L 2525M-11	TDN 322		SP 3	PN 3-4	LR 3D	SR 117-2014	HW 2.5/5
PDJNR/L 2020K-15	TDN 422	TDN 432 <sup>(a)*</sup>	SP 4	PN 3-4	LR 4D	SR 117-2010	HW 3.0
PDJNR/L 2525M-15	TDN 422	TDN 432 <sup>(a)*</sup>	SP 4	PN 3-4	LR 4D	SR 117-2010	HW 3.0
PDJNR/L 3232P-15	TDN 422	TDN 432 <sup>(a)*</sup>	SP 4	PN 3-4	LR 4D	SR 117-2010	HW 3.0

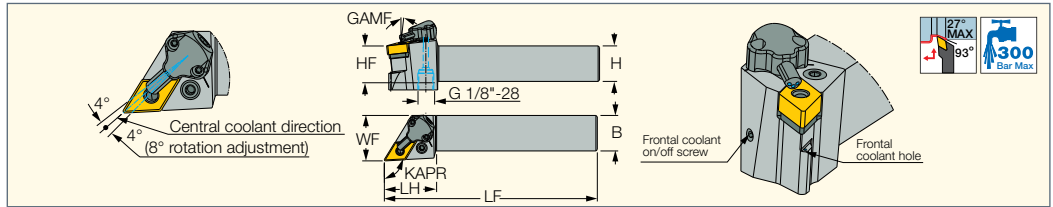
\* Optional, should be ordered separately

<sup>(a)</sup> Use for DNMG 1504.. inserts.



**PDJNR/L-JHP**

Lever Lock Tools with Channels for High-Pressure Coolant Carrying 55° Negative Rhombic Inserts



Designation	B	H	HF	LF	LH	WF	GAMF	KAPR <sup>(1)</sup>	Insert
PDJNR/L 2525M-11-JHP	25.0	25.0	25.0	150.00	36.0	32.00	-6.0	93.0	DNMG 1104
PDJNR/L 2525M-15-JHP	25.0	25.0	25.0	150.00	36.0	32.00	-6.0	93.0	DNMG 1506

• For user guide, see pages 78-84

<sup>(1)</sup> Tool cutting edge angle

**For inserts, see pages:** DNGA-J(CBN) (229) • DNGG-M3N (210) • DNMG-CERMET (158) • DNMG-F3S (157) • DNMG-F3P (156) • DNMG-M3P (156)

• DNMX-M3P (162) • DNMM-R3P (162) • DNMG-F3M (157) • DNMG-M3M (157) • DNMG/DNGG-TF (160) • DNMG-GN (161) • DNMG-NR (161)

• DNMG/DNGG-PP (160) • DNMG-VL (160) • DNMG-PF (159) • DNMG/DNGG-SF (159) • DNMG-NF (158) • DNMM-NM (162) • DNMG-WG (159)

• DNMS-12 (214) • DNMA (161) • DNGA-Ceramic (218) • DNGA-2 (CBN) (229) • DNGA-4 (CBN) (229) • DNGG-M4HF/M4HM (CBN) (230) • DNMA (CBN) (228)

**Spare Parts**

Designation											
PDJNR/L 2525M-11-JHP	TDN 322		PN 3-4	LR 3D	SR 117-2014	SP 3	CU-D-JHP	SR M4X4 DIN913 TL360	T-8/5	HW 2.0	HW 2.5/5
PDJNR/L 2525M-15-JHP	TDN 422	TDN 432 <sup>(a)</sup>	PN 3-4	LR 4D	SR 117-2010	SP 4	CU-D-JHP	SR M4X4 DIN913 TL360	T-8/5	HW 2.0	HW 3.0

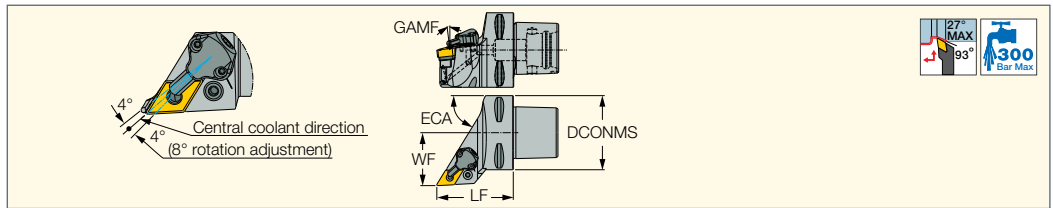
\* Optional, should be ordered separately

<sup>(a)</sup> Use for DNMG 1504.. inserts

**CAMFIX**

**C#-PDJNR/L-JHP**

Lever Lock Tools with CAMFIX Exchangeable Shanks and Channels for High-Pressure Coolant Carrying Negative 55° Insert



Designation	DCONMS	WF	LF	GAMF	ECA	Insert	CDI <sup>(1)</sup>	CP <sup>(2)</sup>
C3 PDJNR-22045-11-JHP	32.00	22.00	45.00	-6.0	58.0	DN.. 11..	0	300
C4 PDJNL 27050-11-JHP	40.00	27.00	55.00	-6.0	58.0	DN.. 11..	1	300
C4 PDJNR 27050-11-JHP	40.00	27.00	50.00	-6.0	58.0	DN.. 11..	1	300
C5 PDJNR/L 35060-11-JHP	50.00	35.00	60.00	-6.0	58.0	DN.. 11..	1	300
C4 PDJNR/L 27055-15-JHP	40.00	27.00	55.00	-6.0	58.0	DN.. 15..	1	300
C5 PDJNR/L 35060-15-JHP	50.00	35.00	60.00	-6.0	58.0	DN.. 15..	1	300
C6 PDJNR/L 45065-15-JHP	63.00	45.00	65.00	-6.0	58.0	DN.. 15..	1	300

• For user guide, see pages 78-84

<sup>(1)</sup> 1 - Hole for data chip, 0 - Without hole for data chip

<sup>(2)</sup> Coolant pressure (Bar)

**For inserts, see pages:** DNGA-J(CBN) (229) • DNMG-F3S (157) • DNMG-F3P (156) • DNMG-M3P (156) • DNMX-M3P (162) • DNMM-R3P (162)

• DNMG-F3M (157) • DNMG-M3M (157) • DNMG/DNGG-TF (160) • DNMG-GN (161) • DNMG-NR (161) • DNMG/DNGG-PP (160) • DNMG-VL (160)

• DNMG-PF (159) • DNMG/DNGG-SF (159) • DNMG-NF (158) • DNMM-NM (162) • DNMG-WG (159) • DNMS-12 (214) • DNMA (161) • DNGA-Ceramic (218)

• DNGA-2 (CBN) (229) • DNGA-4 (CBN) (229) • DNGG-M4HF/M4HM (CBN) (230) • DNMA (CBN) (228) • DNGG-M3N (210) • DNMG-CERMET (158)

**Spare Parts**

Designation									
C3 PDJNR-22045-11-JHP	TDN 322		LR 3D	SR 117-2014	SP 3	PN 3-4	CU-D-JHP	T-8/5	HW 2.5/5
C4 PDJNR/L 27050-11-JHP	TDN 322		LR 3D	SR 117-2014	SP 3	PN 3-4	CU-D-JHP	T-8/5	HW 2.5/5
C5 PDJNR/L 35060-11-JHP	TDN 322		LR 3D	SR 117-2014	SP 3	PN 3-4	CU-D-JHP	T-8/5	HW 2.5/5
C4 PDJNR/L 27055-15-JHP	TDN 422	TDN 432 <sup>(a)</sup>	LR 4D	SR 117-2010	SP 4	PN 3-4	CU-D-JHP	T-8/5	HW 3.0
C5 PDJNR/L 35060-15-JHP	TDN 422	TDN 432 <sup>(a)</sup>	LR 4D	SR 117-2010	SP 4	PN 3-4	CU-D-JHP	T-8/5	HW 3.0
C6 PDJNR/L 45065-15-JHP	TDN 422	TDN 432 <sup>(a)</sup>	LR 4D	SR 117-2010	SP 4	PN 3-4	CU-D-JHP	T-8/5	HW 3.0

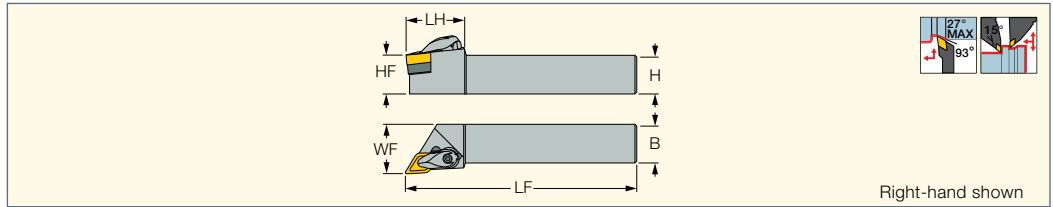
\* Optional, should be ordered separately

<sup>(a)</sup> Use for DNMG 1504.. inserts

**ISOTURN**

**DDJNR/L**

R-Clamp Tools with 93° Lead Angle Carrying 55° Negative Rhombic Inserts



Designation	H	HF	B	LF	LH	WF	Insert
DDJNR/L 1616H-11	16.0	16.0	16.0	100.00	30.0	20.00	DNMG 1104
DDJNR/L 2020K-11	20.0	20.0	20.0	125.00	30.0	25.00	DNMG 1104
DDJNR/L 2525M-11	25.0	25.0	25.0	150.00	30.0	32.00	DNMG 1104
DDJNR/L 2020K-15	20.0	20.0	20.0	125.00	39.0	25.00	DNMG 1506
DDJNR/L 2525M-15	25.0	25.0	25.0	150.00	40.0	32.00	DNMG 1506
DDJNR/L 3232P-15	32.0	32.0	32.0	170.00	41.0	40.00	DNMG 1506

For inserts, see pages: DNMG-F3S (157) • DNMG-F3P (156) • DNMG-M3P (156) • DNMX-M3P (162) • DNMM-R3P (162) • DNMG-CERMET (158) • DNGG-M3N (210) • DNMG-F3M (157) • DNMG-M3M (157) • DNMG/DNGG-TF (160) • DNMG-GN (161) • DNMG-NR (161) • DNMG/DNGG-PP (160) • DNMG-VL (160) • DNMG-PF (159) • DNMG/DNGG-SF (159) • DNMG-NF (158) • DNMM-NM (162) • DNMG-WG (159) • DNMA (161) • DNGA-Ceramic (218) • DNGA-4 (CBN) (229) • DNMA (CBN) (228)

**Spare Parts**

Designation								
DDJNR/L 1616H-11	RDT 3-2		SR 40085I	LOGR-3	SR RC3	HW 2.5	KSP 3	
DDJNR/L 2020K-11	RDT 3-2		SR 40085I	LOGR-3	SR RC3	HW 2.5	KSP 3	
DDJNR/L 2525M-11	RDT 3-2		SR 40085I	LOGR-3	SR RC3	HW 2.5	KSP 3	
DDJNR/L 2020K-15	RDT 433	RDT 443*	SR 14-506	LOGR-4	SR 10400270-25.5			T-15/5
DDJNR/L 2525M-15	RDT 433	RDT 443*	SR 14-506	LOGR-4	SR 10400270-25.5			T-15/5
DDJNR/L 3232P-15	RDT 433	RDT 443*	SR 14-506	LOGR-4	SR 10400270-25.5			T-15/5

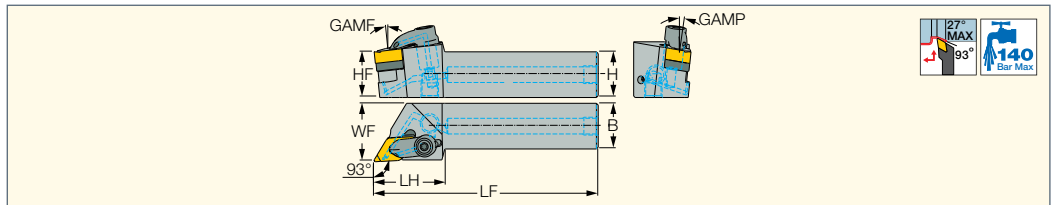
\* Optional, should be ordered separately

**ISOTURN**

**JET RETURN**  
RIGID CLAMP

**DDJNR/L-JHP-MC**

Rigid Clamp Tools with Channels for High-Pressure Coolant Carrying 55° Rhombic Inserts



Designation	B	HF	LF	LH	WF	GAMP	GAMF	Insert
DDJNR/L 2020X-15-JHP-MC	20.0	20.0	110.00	40.0	25.00	6.0	6.0	DNMG/X 1506
DDJNR/L 2525X-15-JHP-MC	25.0	25.0	125.00	40.0	32.00	6.0	6.0	DNMG/X 1506

For inserts, see pages: DNGA-2 (CBN) (229) • DNGA-4 (CBN) (229) • DNGA-Ceramic (218) • DNGA-J(CBN) (229) • DNGG-M4HF/M4HM (CBN) (230) • DNMA (161) • DNMA (CBN) (228) • DNMG-CERMET (158) • DNMG-F3M (157) • DNMG-F3P (156) • DNMG-F3S (157) • DNMG-GN (161) • DNMG-M3M (157) • DNMG-M3P (156) • DNMG-NF (158) • DNMG-NR (161) • DNMG-PF (159) • DNMG-VL (160) • DNMG-WG (159) • DNMG/DNGG-PP (160) • DNMG/DNGG-SF (159) • DNMG/DNGG-TF (160) • DNMM-NM (162) • DNMM-R3P (162) • DNMX-M3P (162)

**Spare Parts**

Designation						
DDJNR/L-JHP-MC	RDT 433	RDT 443*	LOGR/L-4JC SET <sup>(a)</sup>	PLG G1/8 TL360	SR 14-506	OR 4X3 NBR70

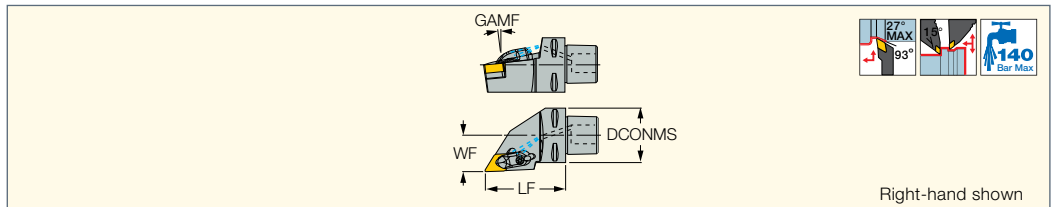
\* Optional, should be ordered separately

<sup>(a)</sup> Recommended tightening torque 4Nm for R-Clamp Screw

## ISOTURN CAMFIX

### C#-DDJNR/L

Tools with CAMFIX Exchangeable  
Tapered Shanks Carrying  
Negative 55° Rhombic Inserts



Designation	DCONMS	WF	LF	Insert	GAMF	CP <sup>(1)</sup>	CDI <sup>(2)</sup>
C4 DDJNR/L-27060-15	40.00	27.00	60.00	DN..15	6.0	140	1
C5 DDJNR/L-35060-15	50.00	35.00	60.00	DN..15	6.0	140	1
C6 DDJNR/L-45065-15	63.00	45.00	65.00	DN..15	6.0	140	1

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

<sup>(1)</sup> Coolant pressure (Bar)

<sup>(2)</sup> 1 - Hole for data chip, 0 - Without hole for data chip

**For inserts, see pages:** DNGA-J(CBN) (229) • DNMG-F3S (157) • DNMG-F3P (156) • DNMG-M3P (156) • DNMX-M3P (162) • DNMM-R3P (162) • DNMG-F3M (157) • DNMG-M3M (157) • DNMG/DNGG-TF (160) • DNMG-GN (161) • DNMG-NR (161) • DNMG/DNGG-PP (160) • DNMG-VL (160) • DNMG-PF (159) • DNMG/DNGG-SF (159) • DNMG-NF (158) • DNMM-NM (162) • DNMG-WG (159) • DNMA (161) • DNGA-Ceramic (218) • DNGA-2 (CBN) (229) • DNGA-4 (CBN) (229) • DNGG-M4HF/M4HM (CBN) (230) • DNMA (CBN) (228) • DNMG-CERMET (158)

### Spare Parts

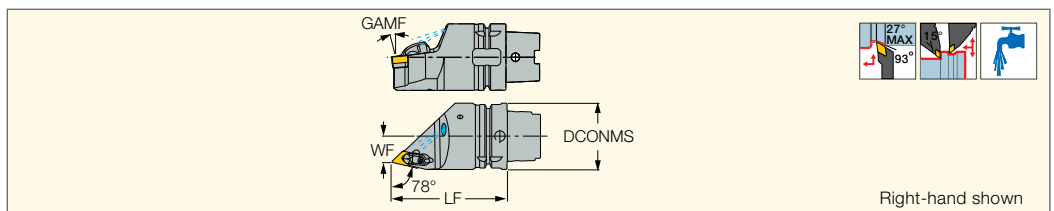
Designation							
C4 DDJNL-27060-15	RDT 433	RDT 443*	T-15/5	LCGR-4	SR 10400270-25.5	SR 14-506 M4X0.7	EZ 62
C4 DDJNR-27060-15	RDT 433		T-15/5	LCGR-4	SR 10400270-25.5	SR 14-506 M4X0.7	EZ 62
C5 DDJNL-35060-15	RDT 433		T-15/5	LCGR-4	SR 10400270-25.5	SR 14-506 M4X0.7	EZ 83
C5 DDJNR-35060-15	RDT 433	RDT 443*	T-15/5	LCGR-4	SR 10400270-25.5	SR 14-506 M4X0.7	EZ 83
C6 DDJNR/L-45065-15	RDT 433	RDT 443*	T-15/5	LCGR-4	SR 10400270-25.5	SR 14-506 M4X0.7	EZ 104

\* Optional, should be ordered separately

## R-CLAMP HSK

### HSK A63WH-DDJNR/L

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



Designation	DCONMS	LF	WF	Insert	CDI <sup>(2)</sup>	GAMF							
HSK A63WH DDJNR/L J15 <sup>(1)</sup>	63.00	110.00	25.00	DN.. 15	0	7.5	RDT 433	RDT 443*	SR 14-506 M4X0.7	LCGR-4	SR 10400270-25.5	T-15/5	EZ 104

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

• For shank dimensions, see page 735

<sup>(1)</sup> RDT 443 for DN\_ 1504.. insert.

<sup>(2)</sup> 1 - Hole for data chip, 0 - Without hole for data chip

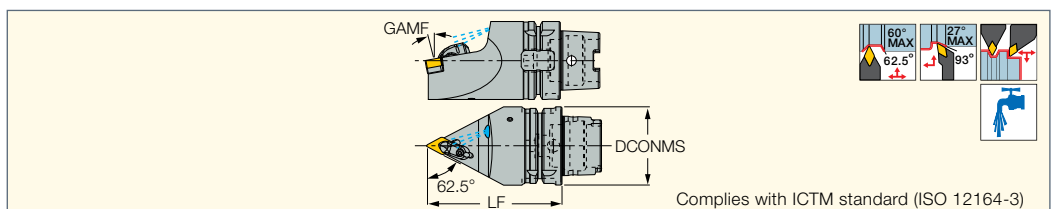
\* Optional, should be ordered separately

**For inserts, see pages:** DNGA-J(CBN) (229) • DNMG-CERMET (158) • DNMG-F3S (157) • DNMG-F3P (156) • DNMG-M3P (156) • DNMX-M3P (162) • DNMM-R3P (162) • DNMG-F3M (157) • DNMG-M3M (157) • DNMG/DNGG-TF (160) • DNMG-GN (161) • DNMG-NR (161) • DNMG/DNGG-PP (160) • DNMG-VL (160) • DNMG-PF (159) • DNMG/DNGG-SF (159) • DNMG-NF (158) • DNMM-NM (162) • DNMA (161) • DNGA-Ceramic (218) • DNGA-2 (CBN) (229) • DNGA-4 (CBN) (229) • DNGG-M4HF/M4HM (CBN) (230) • DNMA (CBN) (228)

## R-CLAMP HSK

### HSK A63WH-DDNNN

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



Designation	LF	Insert	DCONMS	GAMF	CDI <sup>(2)</sup>							
HSK A63WH DDNNN J15 <sup>(1)</sup>	110.00	DN.. 15	63.00	10.0	0	RDT 433	RDT 443*	SR 14-506 M4X0.7	LCGR-4	SR 10400270-25.5 <sup>(a)</sup>	T-15/5	EZ 104

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately). • For shank dimensions, see page 735

<sup>(1)</sup> RDT 443 for DN\_ 1504.. insert.

<sup>(2)</sup> 1 - Hole for data chip, 0 - Without hole for data chip

\* Optional, should be ordered separately

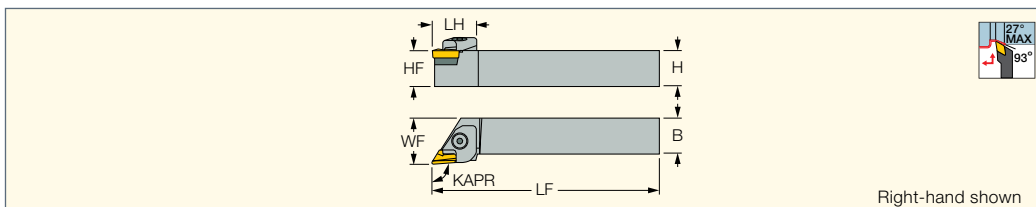
<sup>(a)</sup> Recommended tightening torque: 3 N\*m

**For inserts, see pages:** DNGA-J(CBN) (229) • DNMG-CERMET (158) • DNMG-F3S (157) • DNMG-F3P (156) • DNMG-M3P (156) • DNMX-M3P (162) • DNMM-R3P (162) • DNMG-F3M (157) • DNMG-M3M (157) • DNMG/DNGG-TF (160) • DNMG-GN (161) • DNMG-NR (161) • DNMG/DNGG-PP (160) • DNMG-VL (160) • DNMG-PF (159) • DNMG/DNGG-SF (159) • DNMG-NF (158) • DNMM-NM (162) • DNMG-WG (159) • DNMA (161) • DNGA-Ceramic (218) • DNGA-2 (CBN) (229) • DNGA-4 (CBN) (229) • DNGG-M4HF/M4HM (CBN) (230) • DNMA (CBN) (228)

### ISOTURN

#### CKJNR/L

Top Clamp Tools with 93° Lead Angle Carrying 55° Negative Parallelogram Inserts



Right-hand shown

Designation	H	HF	B	LF	LH	WF	KAPR <sup>(1)</sup>	Insert
CKJNR/L 2020K-16	20.0	20.0	20.0	125.00	32.0	25.00	93.0	KNMX/KNUX 1604
CKJNR/L 2525M-16	25.0	25.0	25.0	150.00	32.0	32.00	93.0	KNMX/KNUX 1604
CKJNR/L 3232P-16	32.0	32.0	32.0	170.00	32.0	40.00	93.0	KNMX/KNUX 1604

<sup>(1)</sup> Tool cutting edge angle

For inserts, see pages: KNMX (163) • KNUX (163)

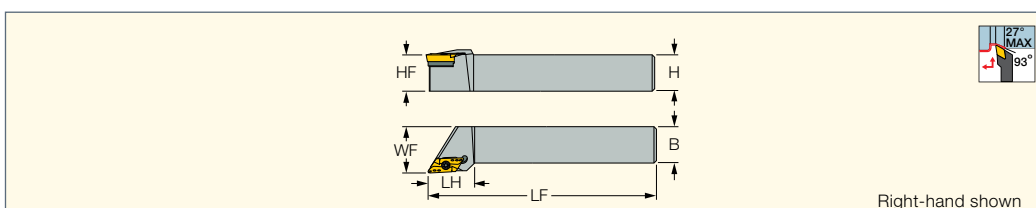
#### Spare Parts

Designation								
CKJNR/L	CSK 1604 R/L	SR M3X0.5X10DIN7991 10.9	KSP 90	KSP 48	KSP 48S	CL 16KR/L	CLS 16K	HW 4.0

### ISOTURN

#### SKJNR/L

Screw Clamp Tools with 93° Lead Angle Carrying 55° Negative Parallelogram Inserts



Right-hand shown

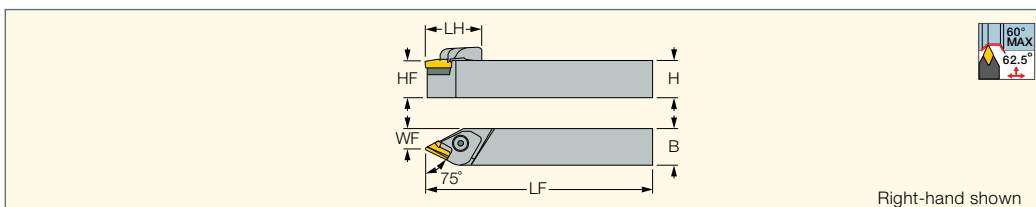
Designation	H	HF	B	LF	LH	WF	Insert					
SKJNR/L 2525M-16	25.0	25.0	25.0	150.00	32.0	32.00	KNMX 1604	TKX 160310R/L	SR TC-3	HW 2.5	SR 16-236 P	T-15/5
SKJNR/L 3232P-16	32.0	32.0	32.0	170.00	32.0	40.00	KNMX 1604	TKX 160310L	SR TC-3	HW 2.5	SR 16-236 P	T-15/5

For inserts, see pages: KNMX (163)

### ISOTURN

#### CKNNR/L

Top Clamp Tools with 63° Lead Angle Carrying 55° Negative Parallelogram Inserts



Right-hand shown

Designation	H	HF	B	LF	LH	WF	Insert
CKNNR 2525M-16	25.0	25.0	25.0	150.00	33.0	14.40	KNUX/KNMX 1604

For inserts, see pages: KNMX (163) • KNUX (163)

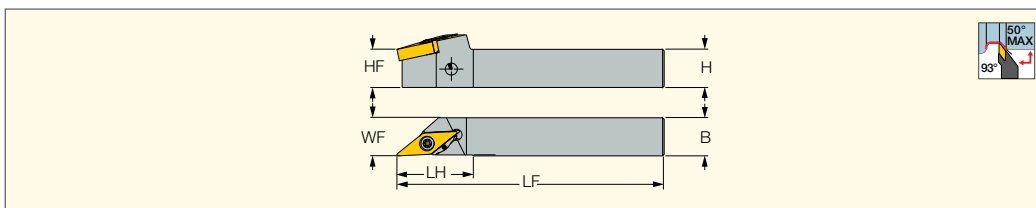
#### Spare Parts

Designation								
CKNNR/L	CSK 1604 R	CL 16KR	CLS 16K	KSP 90	KSP 48	KSP 48S	SR M3X0.5X10DIN7991 10.9	HW 4.0

### ISOTURN

#### SVANR/L-FS

Screw Lock Holders for Negative, 35° Inserts with a Wedge for High Rigidity in Profiling Applications



Designation	H	HF	B	LF	LH	WF				
SVANR/L 1212K-12FS	12.0	12.0	12.0	125.00	25.4	12.20	AV 12	PA 12	SR 14-551	T-9/5
SVANR/L 1616K-12FS	16.0	16.0	16.0	125.00	25.4	16.20	AV 12	PA 12	SR 14-551	T-9/5

For inserts, see pages: VNMG-F3M (164) • VNMG-F3P (163) • VNMG-F3S (164) • VNMG-FNF-CERMET (165) • VNMG-M3M (164) • VNMG-SF (165)

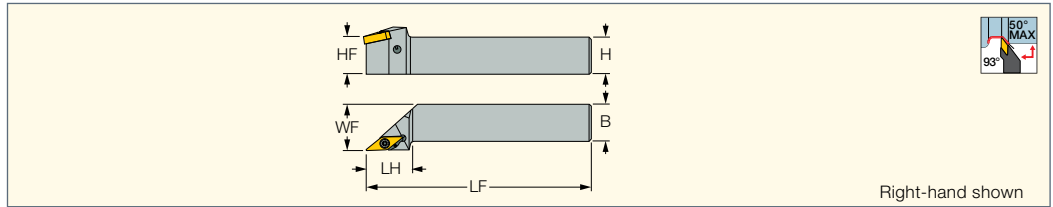
• VNMG/VNGG-NF (165) • VNMM-PP (166)



# ISOTURN

## SVJNR/L-F

Screw Lock Tools with a Wedge for High Rigidity Carrying 35° Negative Inserts for Profiling Applications



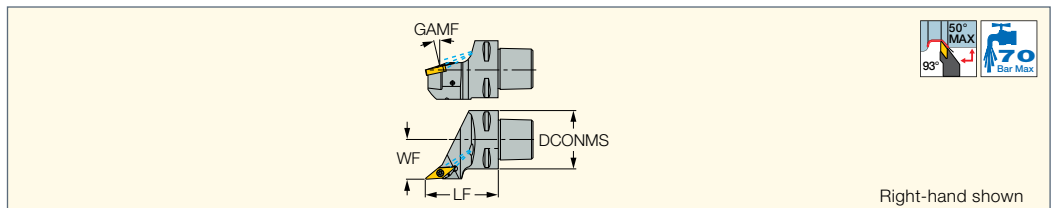
Designation	H	HF	B	LF	LH	WF	Insert				
SVJNR/L 1616H-12F	16.0	16.0	16.0	100.00	25.0	20.00	VNMG 12T3	SR 14-551	T-9/5	AV 12	PA 12
SVJNR/L 2020K-12F	20.0	20.0	20.0	125.00	25.0	25.00	VNMG 12T3	SR 14-551	T-9/5	AV 12	PA 12
SVJNR/L 2525M-12F	25.0	25.0	25.0	150.00	25.0	32.00	VNMG 12T3	SR 14-551	T-9/5	AV 12	PA 12

- Repeatability: for VNMG is ±0.06 mm, for VNGG is ±0.02 mm
- For inserts, see pages: VNMG-F3M (164) • VNMG-F3P (163) • VNMG-F3S (164) • VNMG-FNF-CERMET (165) • VNMG-M3M (164) • VNMG-SF (165)
- VNMG/VNGG-NF (165) • VNMM-PP (166)

# ISOTURN CAMFIX

## C#-SVJNR/L-F

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



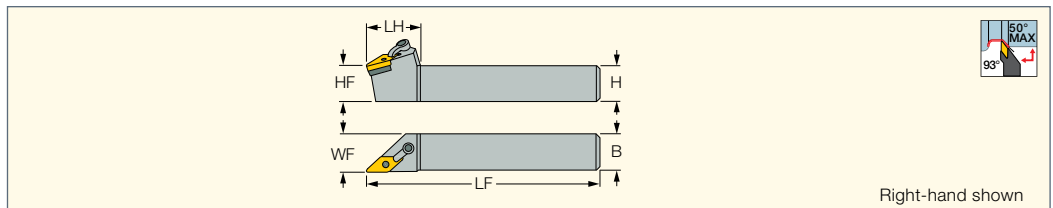
Designation	DCONMS	WF	LF	Insert	GAMF	CDI <sup>(1)</sup>	CP <sup>(2)</sup>					
C4 SVJNR/L-27050-12F	40.00	27.00	50.00	VN.. 12T3	12.0	1	70	AV 12	PA 12	SR 14-551	T-9/5	EZ 83

- (1) 1 - Hole for data chip, 0 - Without hole for data chip
- (2) Coolant pressure (Bar)
- For inserts, see pages: VNMG-F3M (164) • VNMG-F3P (163) • VNMG-F3S (164) • VNMG-FNF-CERMET (165) • VNMG-M3M (164) • VNMG-SF (165)
- VNMG/VNGG-NF (165) • VNMM-PP (166)

# ISOTURN

## MVJNR/L

Pin and Clamp Tools Carrying 35° Negative Rhombic Inserts



Designation	H	HF	B	LF	LH	WF	Insert
MVJNR/L 2020K-16	20.0	20.0	20.0	125.00	41.0	25.00	VNMG 1604
MVJNR/L 2525M-16	25.0	25.0	25.0	150.00	41.0	32.00	VNMG 1604

- For inserts, see pages: VNGG-M3N (210) • VNMG-F3M (164) • VNMG-F3P (163) • VNMG-M3M (164) • VNMG-TF (166) • YNMG-F3P (166)
- VNMG/VNGG-NF (165) • VNMS-12 (214) • VNGA-Ceramic (219) • VNGA-2 (CBN) (231) • VNGA-4 (CBN) (231) • VNGG-M4HM (CBN) (231)

## Spare Parts

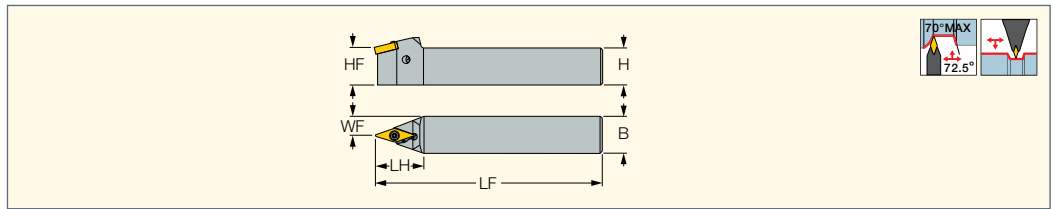
Designation								
MVJNR/L	IVSN 322	IVSN 323 <sup>(a)*</sup>	IYSN 322 <sup>(b)*</sup>	NL 34-L	HW 5/32 <sup>*</sup>	CL 30-INJ	XNS 510	HW 5/64 <sup>*</sup>

- \* Optional, should be ordered separately
- (a) Use for VNMG 160412 inserts
- (b) Use for YNMG inserts

## ISOTURN

### SVVNN-F

Screw Lock Tools with a Wedge for High Rigidity in Profiling Applications Carrying 35° Negative Inserts

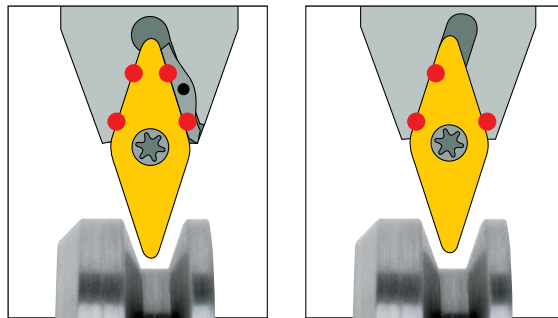


Designation	H	HF	B	LF	LH	WF	Insert				
SVVNN 1616H-12F	16.0	16.0	16.0	100.00	26.0	8.00	VNMG 12T3	SR 14-551	T-9/5	PA 12	AV 12
SVVNN 2020K-12F	20.0	20.0	20.0	125.00	26.0	10.00	VNMG 12T3	SR 14-551	T-9/5	PA 12	AV 12
SVVNN 2525M-12F	25.0	25.0	25.0	150.00	26.0	12.50	VNMG 12T3	SR 14-551	T-9/5	PA 12	AV 12

• Repeatability: for VNMG is ±0.06 mm, for VNGG is ± 0.02 mm

For inserts, see pages: VNMG-F3M (164) • VNMG-F3P (163) • VNMG-F3S (164) • VNMG-FNF-CERMET (165) • MG-M3M (164) • VNMG-SF (165) • VNMG/VNGG-NF (165) • VNMM-PP (166)

4 contact points ensure secure and precise clamping

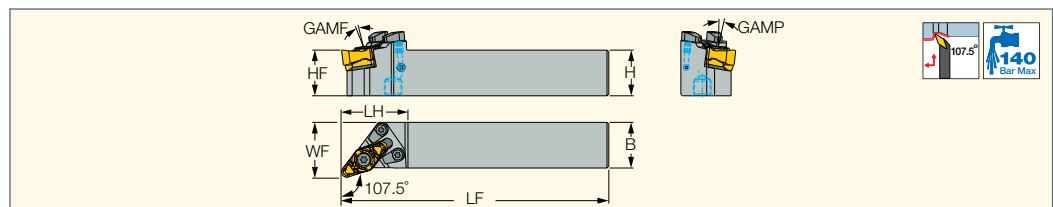


Conventional clamping

## ISOTURN JETCUT

### SVHNR/L-AL-JHP

Screw Lock Tools with Channels for High-Pressure Coolant Carrying 35° Rhombic Inserts



Designation	H	B	HF	LF	LH	WF	GAMP	GAMF	MIID <sup>(1)</sup>
SVHNR/L 2525M-22-AL-JHP	25.0	25.0	25.0	146.34	36.3	30.03	7.0	6.0	VNGU 220630-R3N

• For user guide, see pages 78-84

<sup>(1)</sup> Master insert identification

For inserts, see pages: VNGU-R3N (210)

### Spare Parts

Designation										
SVHNR/L 2525M-22-AL-JHP	TVX 2230 <sup>(a)</sup>	SR 14-591/L-SN	SW6-T-SH	BLD T20/S7	HW 3.0	SR TC-4	CH-1.9D-JHP-A SET	TVX 2212 <sup>(b)*</sup>	TVX 2216 <sup>(c)*</sup>	

\* Optional, should be ordered separately

<sup>(a)</sup> For VNGU 220630-R3N insert

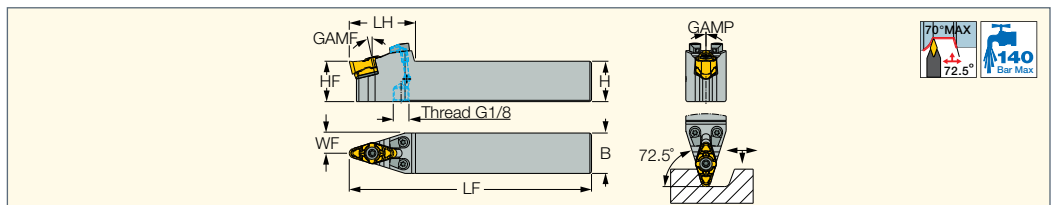
<sup>(b)</sup> For VNGU 220612-R3N insert

<sup>(c)</sup> For VNGU 220616-R3N insert

## ISOTURN JETCUT

### SVVNN-AL-JHP

Screw Lock Tools with Channels for High-Pressure Coolant Carrying 35° Rhombic Inserts



Designation	H	HF	B	LF	LH	WF	GAMP	GAMF	MIID <sup>(1)</sup>
SVVNN 2525M-22-AL-JHP	25.0	25.0	25.0	150.00	41.0	12.50	0.0	-13.5	VNGU 220630-R3N

<sup>(1)</sup> Master insert identification

For inserts, see pages: VNGU-R3N (210)

### Spare Parts

Designation										
SVVNN 2525M-22-AL-JHP	TVX 2230 <sup>(a)</sup>	HW 3.0	BLD T20/S7	SW6-T-SH	SR TC-4	SR 14-591/L-SN	CH-1.9D-JHP-A SET	TVX 2212 <sup>(b)*</sup>	TVX 2216 <sup>(c)*</sup>	

\* Optional, should be ordered separately

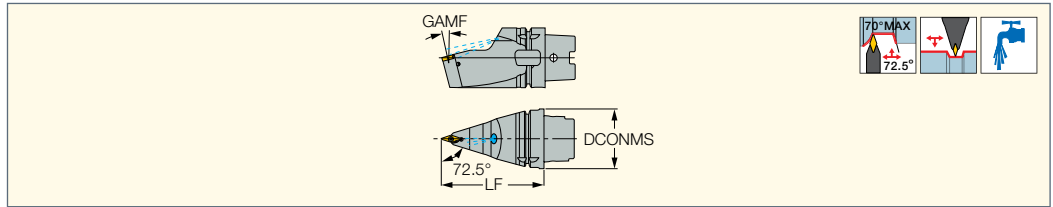
<sup>(a)</sup> For VNGU 220630-R3N insert

<sup>(b)</sup> For VNGU 220612-R3N insert

<sup>(c)</sup> For VNGU 220616-R3N insert

# ISOTURN HSK

**HSK A63WH-SVNN-F**  
72.5° Lead Angle Tools with HSK  
Exchangeable Tapered Shanks  
Carrying 35° Negative Inserts



Designation	DCONMS	LF	Insert	GAMF	CDI <sup>(1)</sup>					
<b>HSK A63WH-SVNN-J12F</b>	63.00	110.00	VNM. 12T3	14.0	0	SR 14-551	T-9/5	AV 12	PA 12	EZ 104

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

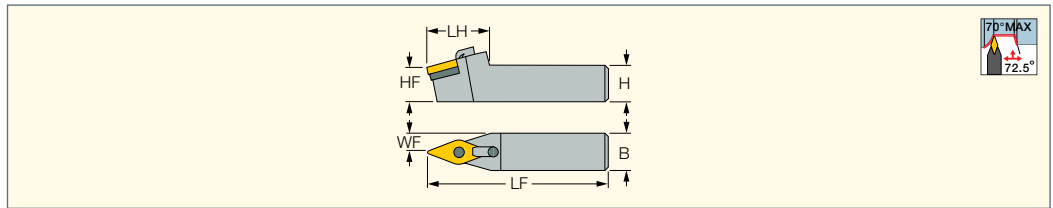
• For shank dimensions, see page 735

<sup>(1)</sup> 1 - Hole for data chip, 0 - Without hole for data chip

**For inserts, see pages:** VNMG-F3M (164) • VNMG-F3P (163) • VNMG-F3S (164) • VNMG-FNF-CERMET (165) • VNMG-M3M (164) • VNMG-SF (165)  
• VNMG/VNGG-NF (165) • VNMM-PP (166)

# ISOTURN

**MVVNN**  
Pin and Clamp Tools Carrying  
35° Negative Rhombic Inserts



Designation	H	HF	B	LF	LH	WF	Insert
<b>MVVNN 2020K-16</b>	20.0	20.0	20.0	125.00	48.0	10.00	VNMG 1604..
<b>MVVNN 2525M-16</b>	25.0	25.0	25.0	150.00	48.0	12.50	VNMG 1604..

**For inserts, see pages:** VNGA-J(CBN) (231) • VNGG-M3N (210) • VNMG-F3M (164) • VNMG-F3P (163) • VNMG-M3M (164) • VNMG-TF (166)

• YNMG-F3P (166) • VNMG/VNGG-NF (165) • VNMS-12 (214) • VNGA-Ceramic (219) • VNGA-2 (CBN) (231) • VNGA-4 (CBN) (231) • VNGG-M4HM (CBN) (231)

## Spare Parts

Designation								
<b>MVVNN</b>	IVSN 322	IVSN 323 <sup>(a)*</sup>	IVSN 322 <sup>(b)*</sup>	NL 34-L	CL 30-INJ	XNS 510	HW 5/32*	HW 5/64*

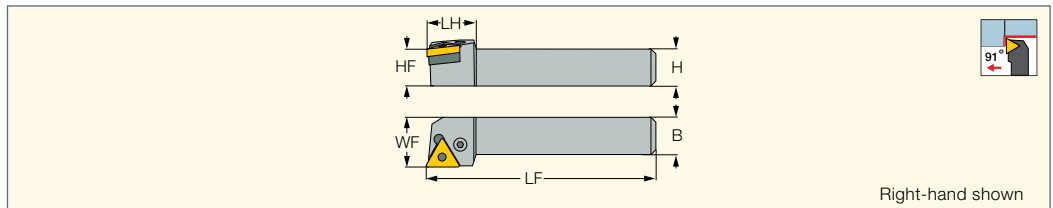
\* Optional, should be ordered separately

<sup>(a)</sup> Use for VNMG 160412 inserts

<sup>(b)</sup> Use for YNMG inserts

# ISOTURN

**PTGNR/L**  
91° Lead Angle Lever Lock  
External Turning Tools Carrying  
Negative Triangular Inserts



Designation	H	HF	B	LF	LH	WF	Insert
<b>PTGNR/L 2020K-16</b>	20.0	20.0	20.0	125.00	22.0	25.00	TNMG 16..
<b>PTGNR/L 2525M-16</b>	25.0	25.0	25.0	150.00	22.0	32.00	TNMG 16..
<b>PTGNR/L 2525M-22</b>	25.0	25.0	25.0	150.00	32.0	32.00	TNMG 2204
<b>PTGNR 3232P-22</b>	32.0	32.0	32.0	170.00	32.0	40.00	TNMG 2204

**For inserts, see pages:** TNGA-J(CBN) (233) • TNGG-M3N (210) • TNMG-F3S (169) • TNMG-FFG-CERMET (169) • TNMG-F3P (167) • TNMG-M3P (167)

• TNMG-F3M (168) • TNMG-M3M (168) • TNMG-TF (170) • TNMG-GN (171) • TNMM-NR (172) • TNMG/TNGG-PP (171) • TNMG-VL (170) • TNMG-PF (170)

• TNMG-SF (169) • TNMG-NF (171) • TNMS-12 (214) • TNMA (172) • TNGA-Ceramic (219) • TNGA-M3 (CBN) (234) • TNGA-MC/M6 (CBN) (233)

• TNMA (CBN) (233)

## Spare Parts

Designation							
<b>PTGNR/L 2020K-16</b>	TTN 322	TTN 332 <sup>(a)*</sup>	SP 3	LR 3	SR 117-2014	HW 2.5/5	PN 3-4
<b>PTGNR/L 2525M-16</b>	TTN 322	TTN 332 <sup>(a)*</sup>	SP 3	LR 3	SR 117-2014	HW 2.5/5	PN 3-4
<b>PTGNR/L 2525M-22</b>	TTN 422		SP 4	LR 4	SR 117-2010	HW 3.0	PN 3-4
<b>PTGNR 3232P-22</b>	TTN 422		SP 4	LR 4	SR 117-2010	HW 3.0	PN 3-4

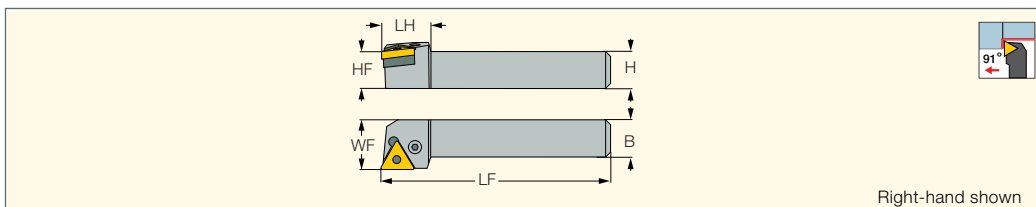
\* Optional, should be ordered separately

<sup>(a)</sup> TTN 332 for inserts 3.18 mm thick

## HELITURN LD

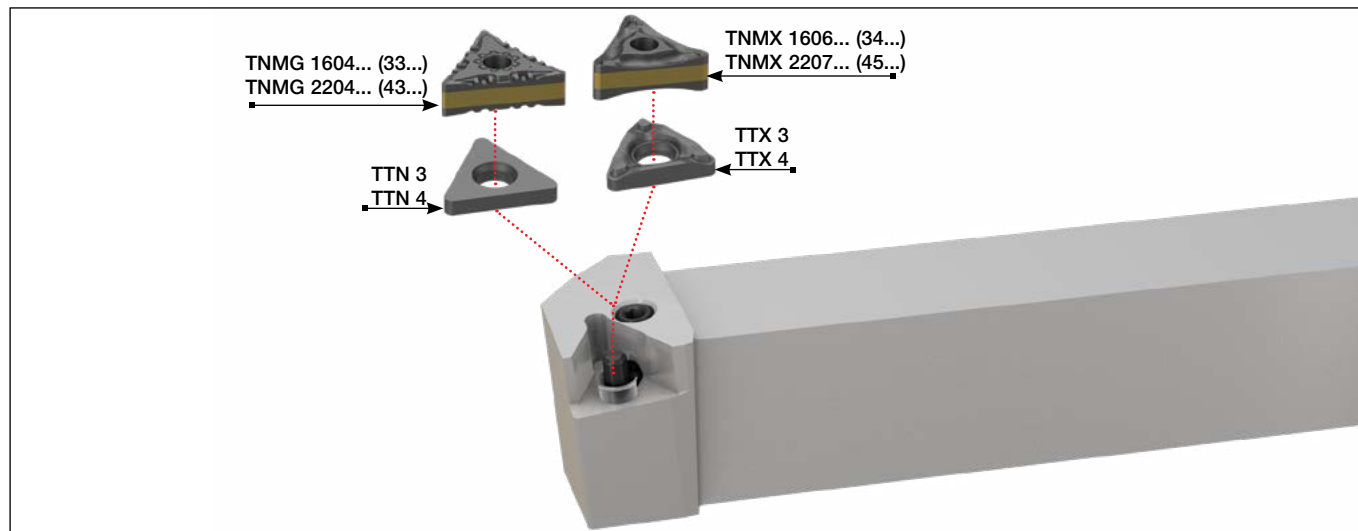
### PTGNR/L-X

91° Lead Angle Lever Lock  
External Turning Tools Carrying  
Negative Triangular Inserts



Designation	H	HF	B	LF	LH	WF	Insert
PTGNR/L 2020K-16X	20.0	20.0	20.0	125.00	20.0	25.00	TNMX 1606, TNMG 1604
PTGNR/L 2525M-16X	25.0	25.0	25.0	150.00	20.0	32.00	TNMX 1606, TNMG 1604
PTGNR/L 2525M-22X	25.0	25.0	25.0	150.00	32.0	32.00	TNMX 2207, TNMG 2204
PTGNR/L 3232P-22X	32.0	32.0	32.0	170.00	32.0	40.00	TNMX 2207, TNMG 2204

- Use TTX 3 seat for TNMX 1606.. inserts and TTN 3 seat for TNMG 1604.. inserts
- For inserts, see pages: TNGA-J(CBN) (233) • TNGG-M3N (210) • TNMG-F3S (169) • TNMG-FFG-CERMET (169) • TNMG-F3P (167) • TNMG-M3P (167) • TNMX-M3/4PW (167) • TNMG-F3M (168) • TNMG-M3M (168) • TNMX-M3/4MW (168) • TNMG-TF (170) • TNMG-GN (171) • TNMM-NR (172) • TNMG/TNGG-PP (171) • TNMG-VL (170) • TNMG-PF (170) • TNMG-SF (169) • TNMG-NF (171) • TNMS-12 (214) • TNMA (172) • TNGA-Ceramic (219) • TNGA-M3 (CBN) (234) • TNGA-MC/M6 (CBN) (233) • TNMA (CBN) (233)



### Spare Parts

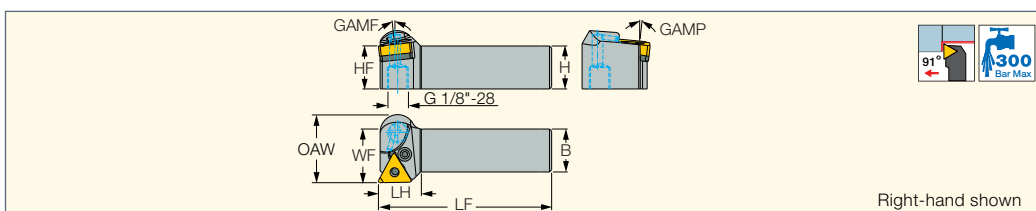
Designation							
PTGNR/L 2020K-16X	TTX 3	TTN 3	SP 3	LR 3	SR 117-2014	HW 2.5	PN 3-4
PTGNR/L 2525M-16X	TTX 3	TTN 3	SP 3	LR 3	SR 117-2014	HW 2.5	PN 3-4
PTGNR/L 2525M-22X	TTX-4	TTN-4	SP 4	LR 4DH	SR 117-2010	HW 3.0	PN 3-4L
PTGNR/L 3232P-22X	TTX-4	TTN-4	SP 4	LR 4DH	SR 117-2010	HW 3.0	PN 3-4L

## HELITURN LD

### JETCUT

### PTGNR/L-X-JHP

91° Lead Angle Lever Lock Tools with  
Channels for High-Pressure  
Coolant Carrying Negative  
Triangular Inserts



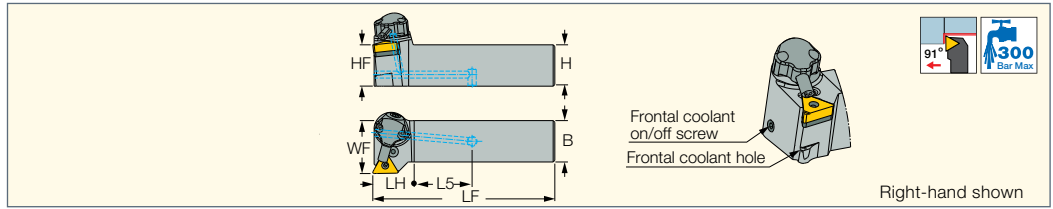
Designation	H	HF	B	LF	LH	WF	OAW	GAMP	GAMF	Insert
PTGNR/L 2020K-16X-JHP	20.0	20.0	20.0	125.00	20.0	25.00	31.7	-6.0	-6.0	TNMX 1606, TNMG 1604
PTGNR/L 2525M-16X-JHP	25.0	25.0	25.0	150.00	20.0	32.00	-	-6.0	-6.0	TNMX 1606, TNMG 1604

- Supplied with TTX 3 seat for TNMX 1606.. inserts and TTN 3 seat for TNMG 1604.. inserts • For user guide, see pages 78-84
- For inserts, see pages: TNGA-J(CBN) (233) • TNGG-M3N (210) • TNMG-F3S (169) • TNMG-FFG-CERMET (169) • TNMG-F3P (167) • TNMG-M3P (167) • TNMX-M3/4PW (167) • TNMG-F3M (168) • TNMG-M3M (168) • TNMX-M3/4MW (168) • TNMG-TF (170) • TNMG-GN (171) • TNMG/TNGG-PP (171) • TNMG-VL (170) • TNMG-PF (170) • TNMG-SF (169) • TNMG-NF (171) • TNMS-12 (214) • TNMA (172) • TNGA-Ceramic (219) • TNGA-M3 (CBN) (234) • TNGA-MC/M6 (CBN) (233) • TNMA (CBN) (233)

### Spare Parts

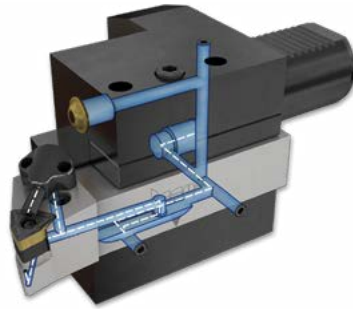
Designation							
PTGNR/L-X-JHP	TTX 3	TTN 3	SP 3	LR 3	SR 117-2014	HW 2.5	PN 3-4

**PTGNR/L-X-JHP-MC**  
Tools with Bottom Inlets for High-Pressure Coolant Carrying TNMX and TNMG Triangular Inserts



Designation	H	HF	B	LF	LH	L5	WF	Insert
PTGNR/L 2020X-16X-JHP-MC	20.0	20.0	20.0	95.00	25.0	29.00	25.00	TNMX 1606, TNMG 1604
PTGNR/L 2525X-16X-JHP-MC	25.0	25.0	25.0	110.00	25.0	35.00	32.00	TNMX 1606, TNMG 1604

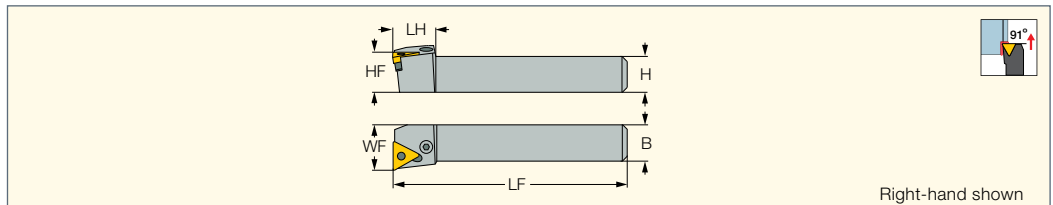
- Supplied with TTX 3 seat for TNMX 1606.. inserts and TTN 3 seat for TNMG 1604.. inserts. • For user guide, see pages 78-84
- For inserts, see pages:** TNGA-J(CBN) (233) • TNGG-M3N (210) • TNMG-F3S (169) • TNMG-FFG-CERMET (169) • TNMG-F3P (167) • TNMG-M3P (167) • TNMG-M3/4PW (167) • TNMG-F3M (168) • TNMG-M3M (168) • TNMG-M3/4MW (168) • TNMG-TF (170) • TNMG-GN (171) • TNMG/TNGG-PP (171) • TNMG-VL (170) • TNMG-PF (170) • TNMG-SF (169) • TNMG-NF (171) • TNMS-12 (214) • TNMA (172) • TNGA-Ceramic (219) • TNGA-M3 (CBN) (234) • TNGA-MC/M6 (CBN) (233) • TNMA (CBN) (233)



**Spare Parts**

Designation										
PTGNR/L-X-JHP-MC	TTX 3	TTN 3	SP 3	LR 3	SR 117-2014	T-8/5	SR M5X5 DIN913 TL360	PN 3-4	HW 2.5	CU-S-JHP

**PTFNR/L**  
91° Lead Angle Lever Lock Face Turning Tools Carrying Negative Triangular Inserts



Designation	H	HF	B	LF	LH	WF	Insert
PTFNR/L 2020K-16	20.0	20.0	20.0	125.00	20.0	25.00	TNMG 16..
PTFNR/L 2525M-16	25.0	25.0	25.0	150.00	20.0	32.00	TNMG 16..
PTFNR/L 2525M-22	25.0	25.0	25.0	150.00	26.0	32.00	TNMG 2204

- For inserts, see pages:** TNGA-J(CBN) (233) • TNGG-M3N (210) • TNMG-F3S (169) • TNMG-FFG-CERMET (169) • TNMG-F3P (167) • TNMG-M3P (167) • TNMG-F3M (168) • TNMG-M3M (168) • TNMG-TF (170) • TNMG-GN (171) • TNMM-NR (172) • TNMG/TNGG-PP (171) • TNMG-VL (170) • TNMG-PF (170) • TNMG-SF (169) • TNMG-NF (171) • TNMS-12 (214) • TNMA (172) • TNGA-Ceramic (219) • TNGA-M3 (CBN) (234) • TNGA-MC/M6 (CBN) (233) • TNMA (CBN) (233)

**Spare Parts**

Designation							
PTFNR/L 2020K-16	TTN 322	TTN 332 <sup>(a)</sup> *	LR 3	SR 117-2014	HW 2.5/5	SP 3	PN 3-4
PTFNR/L 2525M-16	TTN 322	TTN 332 <sup>(a)</sup> *	LR 3	SR 117-2014	HW 2.5/5	SP 3	PN 3-4
PTFNR/L 2525M-22	TTN 422		LR 4	SR 117-2010	HW 3.0	SP 4	PN 3-4

\* Optional, should be ordered separately

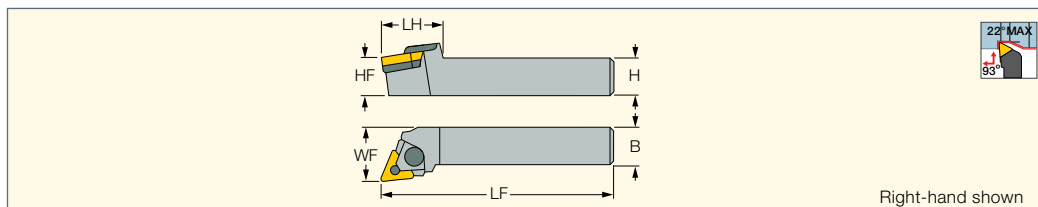
<sup>(a)</sup> TTN 332 for inserts 3.18 mm thick.



## ISOTURN

### MTJNR/L-W

93° Lead Angle Wedge  
Lock Turning Tools Carrying  
Negative Triangular Inserts



Right-hand shown

Designation	H	HF	B	LF	LH	WF	Insert
MTJNR/L 1616H-16W-M	16.0	16.0	16.0	100.00	32.0	20.00	TNMG 1604
MTJNR/L 2020K-16W-M	20.0	20.0	20.0	125.00	32.0	25.00	TNMG 1604
MTJNR/L 2525M-16W-M	25.0	25.0	25.0	150.00	32.0	32.00	TNMG 1604
MTJNR/L 2525M-22W	25.0	25.0	25.0	150.00	38.0	32.00	TNMG 2204
MTJNR/L 3225P-22W	32.0	32.0	25.0	170.00	38.0	32.00	TNMG 2204

For inserts, see pages: TNGA-J(CBN) (233) • TNGG-M3N (210) • TNMG-F3S (169) • TNMG-FFG-CERMET (169) • TNMG-F3P (167) • TNMG-M3P (167)  
• TNMG-F3M (168) • TNMG-M3M (168) • TNMG-TF (170) • TNMG-GN (171) • TNMM-NR (172) • TNMG/TNGG-PP (171) • TNMG-VL (170) • TNMG-PF (170)  
• TNMG-SF (169) • TNMG-NF (171) • TNMA (172) • TNGA-Ceramic (219) • TNGA-M3 (CBN) (234) • TNGA-MC/M6 (CBN) (233) • TNMA (CBN) (233)

### Spare Parts

Designation										
MTJNR/L 1616H-16W-M	TTT 322N	TTT 332N <sup>(a)</sup> *	ZNW 3WNS			LC 291N CLAMP		E RING N	SR 17-317NS	HW 3.0
MTJNR/L 2020K-16W-M	TTT 322N	TTT 332N <sup>(a)</sup> *	ZNW 3WN	HW 2.5		LC 291N CLAMP		E RING N	SR 17-317N	HW 3.0
MTJNR/L 2525M-16W-M	TTT 322N	TTT 332N <sup>(a)</sup> *	ZNW 3WN			LC 291N CLAMP		E RING N	SR 17-317N	HW 3.0
MTJNR/L 2525M-22W	TTT 434		ZNW 4	HW 2.5	LC 281 SET 1		SR 17-295			HW 3.0
MTJNR/L 3225P-22W	TTT 434		ZNW 4	HW 2.5	LC 281 SET 1		SR 17-295			HW 3.0

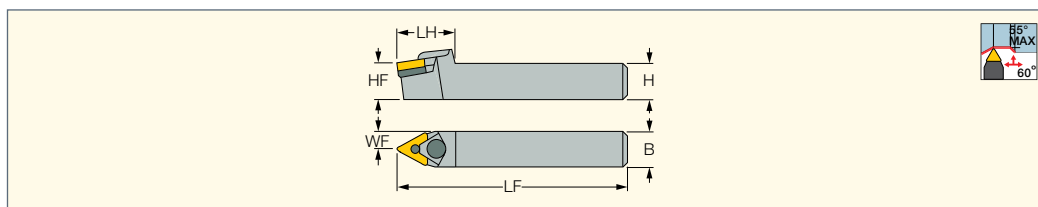
\* Optional, should be ordered separately

<sup>(a)</sup> Use for inserts TNMG 1603.. 3.18 mm thick

## ISOTURN

### MTENN-W

Neutral Wedge Lock Turning  
Tools Carrying Negative  
Triangular Inserts



Designation	H	HF	B	LF	LH	WF	Insert
MTENN 1618H-16W-M	16.0	16.0	18.0	100.00	32.0	9.00	TNMG 1604
MTENN 2020K-16W-M	20.0	20.0	20.0	125.00	35.0	10.00	TNMG 1604
MTENN 2525M-16W-M	25.0	25.0	25.0	150.00	32.0	12.50	TNMG 1604
MTENN 2525M-22W	25.0	25.0	25.0	150.00	40.0	12.50	TNMG 2204
MTENN 3232P-22W	32.0	32.0	32.0	170.00	40.0	16.00	TNMG 2204

For inserts, see pages: TNGA-J(CBN) (233) • TNGG-M3N (210) • TNMG-F3S (169) • TNMG-FFG-CERMET (169) • TNMG-F3P (167) • TNMG-M3P (167)  
• TNMG-F3M (168) • TNMG-M3M (168) • TNMG-TF (170) • TNMG-GN (171) • TNMM-NR (172) • TNMG/TNGG-PP (171) • TNMG-VL (170) • TNMG-PF (170)  
• TNMG-SF (169) • TNMG-NF (171) • TNMA (172) • TNGA-Ceramic (219) • TNGA-M3 (CBN) (234) • TNGA-MC/M6 (CBN) (233) • TNMA (CBN) (233)

### Spare Parts

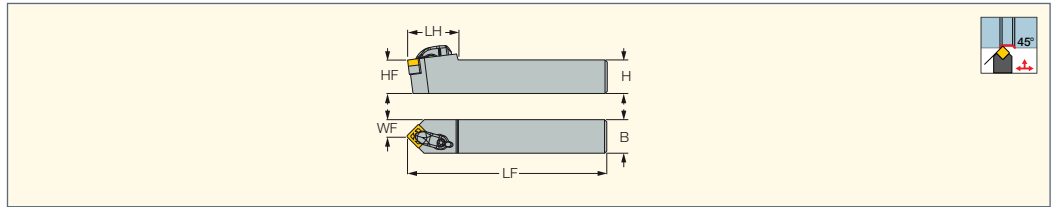
Designation										
MTENN 1618H-16W-M	TTT 322N	TTT 332N <sup>(a)</sup> *	ZNW 3WNS			LC 291N CLAMP		E RING N	SR 17-317NS	HW 3.0
MTENN 2020K-16W-M	TTT 322N	TTT 332N <sup>(a)</sup> *	ZNW 3WN			LC 291N CLAMP		E RING N	SR 17-317N	HW 3.0
MTENN 2525M-16W-M	TTT 322N	TTT 332N <sup>(a)</sup> *	ZNW 3WN			LC 291N CLAMP		E RING N	SR 17-317N	HW 3.0
MTENN 2525M-22W	TTT 434		ZNW 4	HW 2.5	LC 281 SET 1		SR 17-295			HW 3.0
MTENN 3232P-22W	TTT 434		ZNW 4	HW 2.5	LC 281 SET 1		SR 17-295			HW 3.0

\* Optional, should be ordered separately

<sup>(a)</sup> Use for inserts TNMG 1603.. 3.18 mm thick

**DSDNN**

45° Lead Angle R-Clamp  
External Turning Tools Carrying  
ISO Negative SNMG Inserts



Designation	H	HF	B	LF	LH	WF	Insert
<b>DSDNN 2525M-12</b>	25.0	25.0	25.0	150.00	38.0	12.80	SNMG 1204
<b>DSDNN 2525M-15</b>	25.0	25.0	25.0	150.00	42.0	12.50	SNMG 1506
<b>DSDNN 3232P-19</b>	32.0	32.0	32.0	170.00	44.0	16.00	SNMG 1906

**For inserts, see pages:** SNMG-F3S (175) • SNMG-R3M (174) • SNMG-F3P (173) • SNMG-M3P (173) • SNMM-R3P (178) • SNMG-F3M (174) • SNMG-M3M (174) • SNMG-TF (176) • SNMG-GN (177) • SNMG-NR (177) • SNMM-NR (179) • SNMG-PP (175) • SNMG-VL (175) • SNMG-EM-M/R (176) • SNMM-NM (179) • SNMM-H3P (178) • SNMM-H4P (178) • SNMA (177) • SNGA-Ceramic (218) • SNMA (CBN) (235)

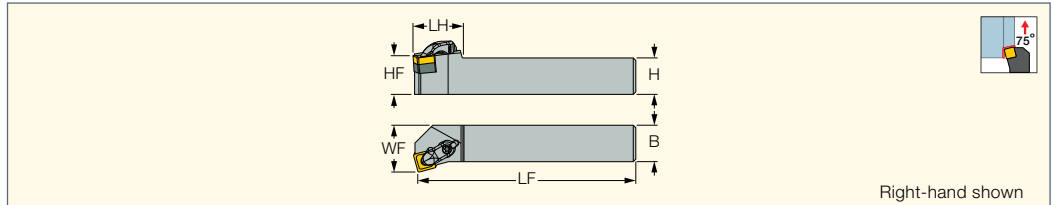
**Spare Parts**

Designation									
<b>DSDNN 2525M-12</b>	RST 443	RST 443R/L SET <sup>(a)</sup>	SR 14-506	LCGR-4	SR 10400270-25.5				T-15/5
<b>DSDNN 2525M-15</b>	RST 54		SR 10402265	LCGR-5		SR 10402267	KSP 5	HW 4.0	
<b>DSDNN 3232P-19</b>	RST 634		SR 10402266	LCGR-6		SR 10402267	KSP 5	HW 4.0	

\* Optional, should be ordered separately  
(a) Optional, required for SNMG ...-EM-R/M inserts

**DSKNR/L**

75° Lead Angle R-Clamp Face  
Turning Tools Carrying ISO  
Negative SNMG Inserts

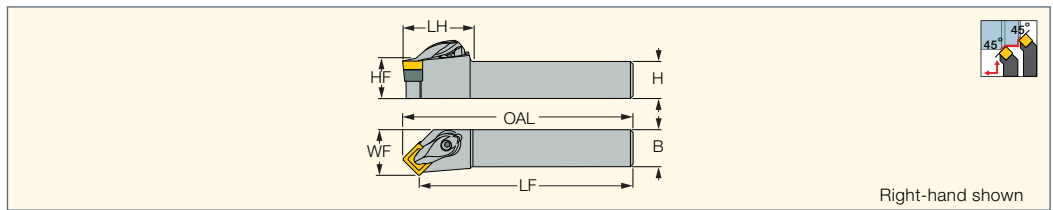


Designation	H	HF	B	LF	LH	WF	Insert					
<b>DSKNR/L 2525M-12</b>	25.0	25.0	25.0	150.00	31.0	32.00	SNMG 1204	RST 443	T-15/5	SR 10400270-25.5	LCGR-4	SR 14-506

**For inserts, see pages:** SNMG-F3S (175) • SNMG-F3P (173) • SNMG-M3P (173) • SNMM-R3P (178) • SNMG-F3M (174) • SNMG-M3M (174) • SNMG-TF (176) • SNMG-GN (177) • SNMG-NR (177) • SNMG-PP (175) • SNMG-VL (175) • SNMA (177) • SNGA-Ceramic (218) • SNMA (CBN) (235)

**DSSNR/L**

45° Lead Angle R-Clamp  
Tools Carrying Negative  
Square Inserts for Longitudinal  
and Facing Applications



Designation	H	HF	B	LF	LH	WF	OAL	Insert
<b>DSSNR/L 2020K-12</b> <sup>(1)</sup>	20.0	20.0	20.0	125.00	38.0	25.00	133.30	SNMG 1204
<b>DSSNR/L 2525M-12</b> <sup>(1)</sup>	25.0	25.0	25.0	150.00	39.0	32.00	158.30	SNMG 1204
<b>DSSNR/L 3232P-15</b>	32.0	32.0	32.0	170.00	34.0	40.00	170.00	SNMG 1506
<b>DSSNR/L 3232P-19</b>	32.0	32.0	32.0	170.00	38.0	40.00	170.00	SNMG 1906

<sup>(1)</sup> Using SNMG.....-EM-M/R inserts requires the use of RST 443R/L SET.  
**For inserts, see pages:** SNMG-F3S (175) • SNMG-F3P (173) • SNMG-M3P (173) • SNMM-R3P (178) • SNMG-F3M (174) • SNMG-M3M (174) • SNMG-TF (176) • SNMG-GN (177) • SNMG-NR (177) • SNMM-NR (179) • SNMG-PP (175) • SNMG-R3M (174) • SNMG-VL (175) • SNMG-EM-M/R (176) • SNMM-NM (179) • SNMM-H3P (178) • SNMM-H4P (178) • SNMA (177) • SNGA-Ceramic (218) • SNMA (CBN) (235)

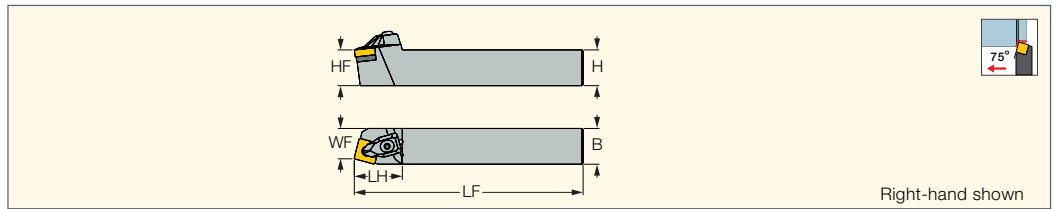
**Spare Parts**

Designation								
<b>DSSNR/L 2020K-12</b>	RST 443	SR 14-506	LCGR-4	SR 10400270-25.5				T-15/5
<b>DSSNR/L 2525M-12</b>	RST 443	SR 14-506	LCGR-4	SR 10400270-25.5				T-15/5
<b>DSSNR/L 3232P-15</b>	RST 54	SR 10402265	LCGR-5		SR 10402267	KSP 5	HW 4.0	
<b>DSSNR/L 3232P-19</b>	RST 634	SR 10402266	LCGR-6		SR 10402267	KSP 5	HW 4.0	

**ISOTURN**

**DSBNR/L**

75° Lead Angle R-Clamp Tools  
Carrying Negative Square Inserts



Right-hand shown

Designation	H	HF	B	LF	LH	WF	Insert
<b>DSBNR/L 2525M-12</b>	25.0	25.0	25.0	150.00	38.0	22.00	SNMG 1204
<b>DSBNL 3232P-12</b>	32.0	32.0	32.0	170.00	38.0	27.00	SNMG 1204
<b>DSBNR/L 2525M-15</b>	25.0	25.0	25.0	150.00	40.0	22.00	SNMG 1506
<b>DSBNR/L 3232P-19</b>	32.0	32.0	32.0	170.00	43.0	27.00	SNMG 1906
<b>DSBNR/L 4040S-19</b>	40.0	40.0	40.0	250.00	43.0	37.00	SNMG 1906

For inserts, see pages: SNMG-F3S (175) • SNMG-R3M (174) • SNMG-F3P (173) • SNMG-M3P (173) • SNMM-R3P (178) • SNMG-F3M (174)  
 • SNMG-M3M (174) • SNMG-TF (176) • SNMG-GN (177) • SNMG-NR (177) • SNMM-NR (179) • SNMG-PP (175) • SNMG-VL (175) • SNMM-NM (179)  
 • SNMM-H3P (178) • SNMM-H4P (178) • SNMA (177) • SNGA-Ceramic (218) • SNMA (CBN) (235)

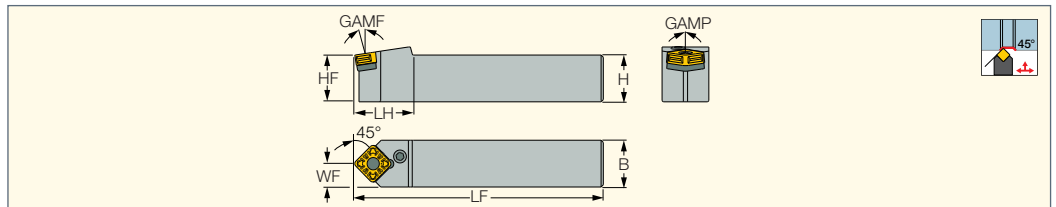
**Spare Parts**

Designation								
<b>DSBNR/L 2525M-12</b>	RST 443	SR 14-506	LCGR-4	SR 10400270-25.5				T-15/5
<b>DSBNL 3232P-12</b>	RST 443	SR 14-506	LCGR-4	SR 10400270-25.5				T-15/5
<b>DSBNR/L 2525M-15</b>	RST 54	SR 10402265	LCGR-5		SR 10402267	KSP 5	HW 4.0	
<b>DSBNR/L 3232P-19</b>	RST 634	SR 10402266	LCGR-6		SR 10402267	KSP 5	HW 4.0	
<b>DSBNR/L 4040S-19</b>	RST 634	SR 10402266	LCGR-6		SR 10402267	KSP 5	HW 4.0	

**DOVE IQ TURN**  
HEAVY DUTY LINE

**PSDON-IQ**

Lever Lock and Dovetail Pocket  
Rigid Clamping Tools Carrying  
Unique Double-Sided  
Square Inserts



Designation	H	HF	B	LF	LH	WF	GAMP	GAMF	Insert
<b>PSDON 3232P-15-IQ</b>	32.0	32.0	32.0	170.00	35.0	17.00	0.0	-8.5	SOMG 1506
<b>PSDON 3232P-19-IQ</b>	32.0	32.0	32.0	170.00	39.5	17.00	0.0	-8.5	SOMG 1906
<b>PSDON 4040S-19-IQ</b>	40.0	40.0	40.0	250.00	39.5	21.00	0.0	-8.5	SOMG 1906

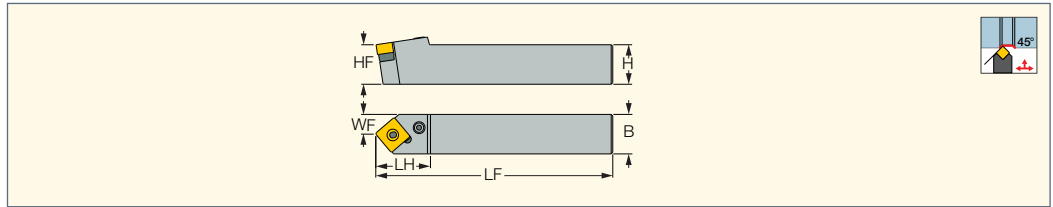
For inserts, see pages: SOMG-R3P-IQ (173)

**Spare Parts**

Designation						
<b>PSDON 3232P-15-IQ</b>	TSX 5-IQ		SP 5	SR LCS 5-L25.5	LCL 16-NX	HW 3.0
<b>PSDON 3232P-19-IQ</b>	TSX 6-IQ		SP 5	SR 10402352	LCL 20C-NX	HW 4.0
<b>PSDON 4040S-19-IQ</b>	TSX 6-IQ		SP 5	SR 10402352	LCL 20C-NX	HW 4.0

**PSDNN**

45° Lead Angle Lever Lock  
External Turning Tools Carrying  
ISO Negative SNMG Inserts



Designation	H	HF	B	LF	LH	WF	Insert
PSDNN 2020K-12	20.0	20.0	20.0	125.00	27.0	10.00	SNMG 1204/SNGA 1204
PSDNN 2525M-12	25.0	25.0	25.0	150.00	27.0	12.50	SNMG 1204/SNGA 1204
PSDNN 3232P-19	32.0	32.0	32.0	170.00	41.0	16.00	SNMG 1906
PSDNN 4040S-25 <sup>(1)</sup>	40.0	40.0	40.0	250.00	49.0	20.00	SNMG 2507

<sup>(1)</sup> For SN.. 2509... inserts, use TSN 84 seat

For inserts, see pages: SNMG-F3S (175) • SNMG-F3P (173) • SNMG-M3P (173) • SNMM-R3P (178) • SNMG-F3M (174) • SNMG-M3M (174)  
• SNMG-TF (176) • SNMG-GN (177) • SNMG-NR (177) • SNMM-NR (179) • SNMG-EM-M/R (176) • SNMG-PP (175) • SNMG-R3M (174) • SNMG-VL (175)  
• SNMM-NM (179) • SNMM-H3P (178) • SNMM-H4P (178) • SNMM-H5P (179) • SNMA (177) • SNGA-Ceramic (218) • SNMA (CBN) (235)

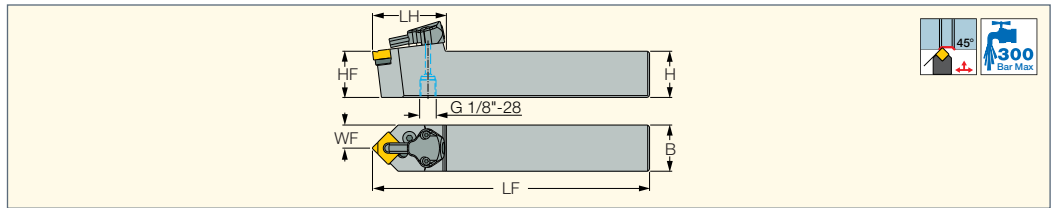
**Spare Parts**

Designation							
PSDNN 2020K-12	TSN 423		SP 4	PN 3-4	LR 4	SR 117-2010	HW 3.0
PSDNN 2525M-12	TSN 423		SP 4	PN 3-4	LR 4	SR 117-2010	HW 3.0
PSDNN 3232P-19	RST 634		SP 66		LR 6	SR 10402352	HW 4.0
PSDNN 4040S-25	TSN 84N	TSN 85N*	SP 8		LR 8	SR 10402264	

\* Optional, should be ordered separately

**PSDNN-JHP**

45° Lead Angle Lever Lock Tools  
with Channels for High-Pressure  
Coolant Carrying ISO  
Negative SNMG Inserts



Designation	H	HF	B	LF	LH	WF	Insert
PSDNN 2525M-12-JHP	25.0	25.0	25.0	150.00	40.0	12.50	SNMG 1204

• For user guide, see pages 78-84

For inserts, see pages: SNMG-F3S (175) • SNMG-F3P (173) • SNMG-M3P (173) • SNMM-R3P (178) • SNMG-F3M (174) • SNMG-M3M (174)  
• SNMG-TF (176) • SNMG-GN (177) • SNMG-NR (177) • SNMG-EM-M/R (176) • SNMG-PP (175) • SNMG-VL (175) • SNMA (177) • SNGA-Ceramic (218)  
• SNMA (CBN) (235)

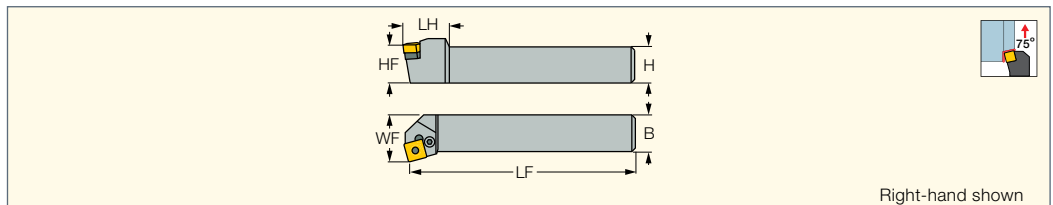
**Spare Parts**

Designation									
PSDNN 2525M-12-JHP	TSN 423	TSN 423M.SET <sup>(a)</sup>	SP 4	PN 3-4	LR 4	SR 117-2010	CU-CW-JHP	HW 3.0	T-8/5

<sup>(a)</sup> When SNMG-EM-M/R inserts are used, replace the standard seat.

**PSKNR/L**

75° Lead Angle Lever Lock  
Tools Carrying ISO Negative  
Square Inserts for Face Turning



Right-hand shown

Designation	H	HF	B	LF	LH	WF	Insert
PSKNR/L 2525M-12	25.0	25.0	25.0	150.00	23.5	32.00	SNMG 1204/SNGA 1204

For inserts, see pages: SNMG-F3S (175) • SNMG-F3P (173) • SNMG-M3P (173) • SNMM-R3P (178) • SNMG-F3M (174) • SNMG-M3M (174)  
• SNMG-TF (176) • SNMG-GN (177) • SNMG-NR (177) • SNMG-PP (175) • SNMG-VL (175) • SNMA (177) • SNGA-Ceramic (218) • SNMA (CBN) (235)

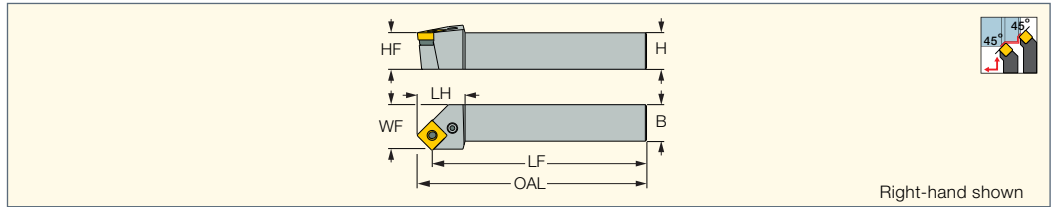
**Spare Parts**

Designation						
PSKNR/L	TSN 423	LR 4	SR 117-2010	HW 3.0	SP 4	PN 3-4

## ISOTURN

### PSSNR/L

45° Lead Angle Lever Lock  
Tools Carrying Negative  
Square Inserts for Longitudinal  
and Facing Applications



Designation	H	HF	B	LF	LH	WF	Insert	OAL
PSSNR/L 2020K-09	20.0	20.0	20.0	125.00	25.0	25.00	SNMG 0904	131.40
PSSNR/L 2525M-09	25.0	25.0	25.0	150.00	25.0	32.00	SNMG 0904	156.40
PSSNR/L 2020K-12	20.0	20.0	20.0	125.00	29.0	25.00	SNMG 1204	133.30
PSSNR/L 2525M-12	25.0	25.0	25.0	150.00	29.0	32.00	SNMG 1204	158.30
PSSNR/L 3232P-19	32.0	32.0	32.0	157.50	42.0	40.00	SNMG 1906	170.00
PSSNR/L 4040S-19	40.0	40.0	40.0	237.50	42.0	50.00	SNMG 1906	250.00
PSSNR/L 4040S-2507 <sup>(1)</sup>	40.0	40.0	40.0	234.00	53.0	50.00	SNMG 2507	250.00

<sup>(1)</sup> For SN.. 2509... inserts, use TSN 84 seat

For inserts, see pages: SNMG-F3S (175) • SNMG-F3P (173) • SNMG-M3P (173) • SNMM-R3P (178) • SNMG-F3M (174) • SNMG-M3M (174)  
• SNMG-TF (176) • SNMG-GN (177) • SNMG-NR (177) • SNMM-NR (179) • SNMG-EM-M/R (176) • SNMG-PP (175) • SNMG-R3M (174) • SNMG-VL (175)  
• SNMM-NM (179) • SNMM-H3P (178) • SNMM-H4P (178) • SNMM-H5P (179) • SNMA (177) • SNGA-Ceramic (218) • SNMA (CBN) (235)

### Spare Parts

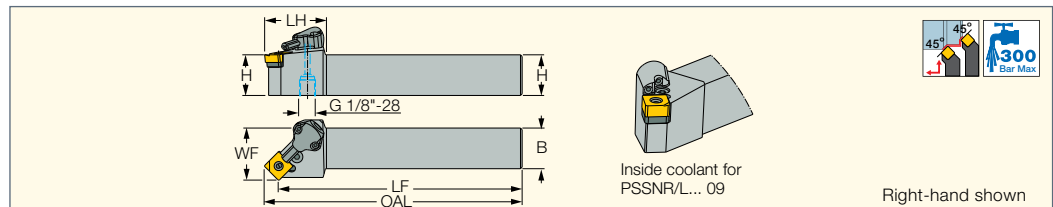
Designation							
PSSNR/L 2020K-09	TSN 323	TSN 333	SP 3	LR 3	SR 117-2014	HW 2.5	PN 3-3L
PSSNR/L 2525M-09	TSN 323	TSN 333	SP 3	LR 3	SR 117-2014	HW 2.5	PN 3-3L
PSSNR/L 2020K-12	TSN 423		SP 4	LR 4	SR 117-2010	HW 3.0	PN 3-4
PSSNR/L 2525M-12	TSN 423		SP 4	LR 4	SR 117-2010	HW 3.0	PN 3-4
PSSNR/L 3232P-19	RST 634		SP 66	LR 6	SR 10402352	HW 4.0	
PSSNR/L 4040S-19	RST 634		SP 66	LR 6	SR 10402352	HW 4.0	
PSSNR/L 4040S-2507	TSN 85	TSN 84*	SP 8	LR 8	SR 10402264	HW 5.0	

\* Optional, should be ordered separately

## ISOTURN JETCUT

### PSSNR/L-JHP

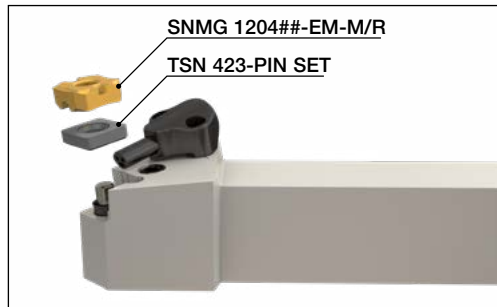
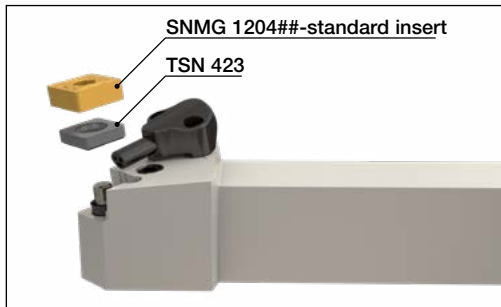
45° Tools with Channels for  
High-Pressure Coolant Carrying  
Negative Square Inserts for  
Longitudinal and Facing Turning



Designation	H	B	LF	LH	WF	OAL	Insert
PSSNR/L 2020K-09-JHP	20.0	20.0	125.00	35.0	25.00	131.40	SNMG 09..
PSSNR/L 2525M-12-JHP	25.0	25.0	150.00	38.0	32.00	158.40	SNMG 1204

• For user guide, see pages 78-84

For inserts, see pages: SNMG-F3S (175) • SNMG-F3P (173) • SNMG-M3P (173) • SNMM-R3P (178) • SNMG-F3M (174) • SNMG-M3M (174)  
• SNMG-TF (176) • SNMG-GN (177) • SNMG-NR (177) • SNMG-EM-M/R (176) • SNMG-PP (175) • SNMG-VL (175) • SNMA (177) • SNGA-Ceramic (218)  
• SNMA (CBN) (235)



### Spare Parts

Designation										
PSSNR/L 2020K-09-JHP	TSN 323	TSN 333	SP 3	PN 3-3L	LR 3	SR 117-2014		CU-S-JHP	HW 2.5	
PSSNR/L 2525M-12-JHP	TSN 423	TSN 423M SET <sup>(a)</sup>	SP 4	PN 3-4	LR 4	SR 117-2010	OR 6.4X0.9N	CU-S-JHP	HW 3.0	T-8/5

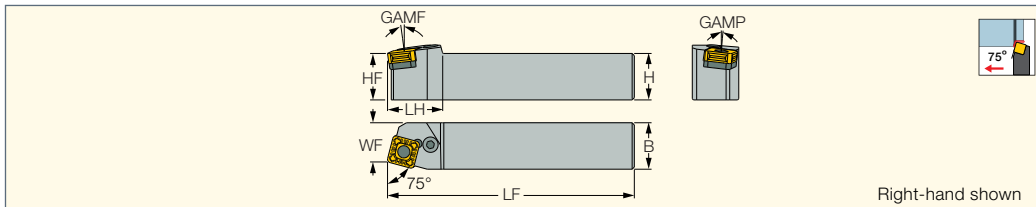
\* Optional, should be ordered separately

<sup>(a)</sup> When SNMG-EM-M/R inserts are used, replace the standard seat.



**PSBOR/L-IQ**

Lever Lock and Dovetail  
Pocket Rigid Clamping Tools  
Carrying Unique SOMG  
Double-Sided Square Inserts



Designation	H	HF	B	LF	LH	WF	GAMP	GAMF	Insert
PSBOR/L 3232P-15-IQ	32.0	32.0	32.0	170.00	35.0	27.00	-4.7	-7.5	SOMG 1506
PSBOR/L 3232P-19-IQ	32.0	32.0	32.0	170.00	38.0	27.00	-4.7	-7.5	SOMG 1906
PSBOR/L 4040S-19-IQ	40.0	40.0	40.0	250.00	38.0	35.00	-4.7	-7.5	SOMG 1906
PSBOR/L 4040S-25-IQ	40.0	40.0	40.0	250.00	50.0	35.00	-4.7	-7.5	SOMG 2509

For inserts, see pages: SOMG-R3P-IQ (173)

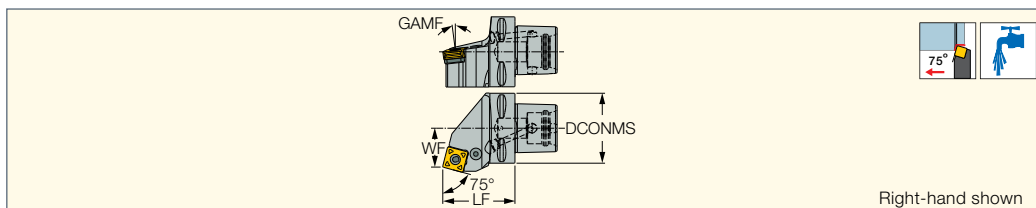
**Spare Parts**

Designation					
PSBOR/L 3232P-15-IQ	TSX 5-IQ	SP 5	SR LCS 5-L25,5	LCL 16-NX	HW 3.0
PSBOR/L 3232P-19-IQ	TSX 6-IQ	SP 5	SR 10402352	LCL 20C-NX	HW 4.0
PSBOR/L 4040S-19-IQ	TSX 6-IQ	SP 5	SR 10402352	LCL 20C-NX	HW 4.0
PSBOR/L 4040S-25-IQ	TSX 8-IQ	SP 8	SR LCS 8-L39	LCL 32-NX	HW 5.0

**CAMFIX**

**C#-PSROR/L-IQ**

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



Designation	DCONMS	WF	LF	GAMP	GAMF	Insert
C6 PSROR/L-35065-15-IQ	63.00	35.00	65.00	-4.7	-7.5	SOMG 1506
C6 PSROR/L-35065-19-IQ	63.00	35.00	65.00	-4.7	-7.5	SOMG 1906
C8 PSROR/L-45080-19-IQ	80.00	55.00	80.00	-4.7	-7.5	SOMG 1906
C8 PSROR/L-45085-25-IQ	80.00	55.00	80.00	-4.7	-7.5	SOMG 2509

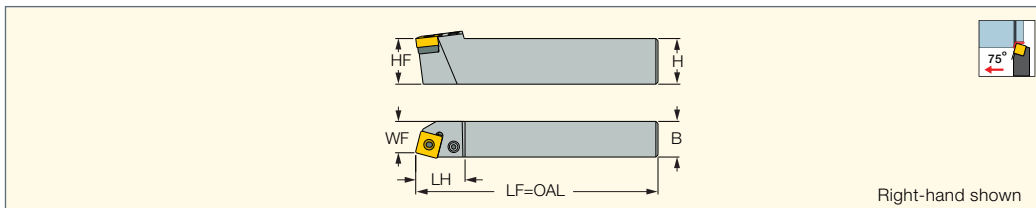
For inserts, see pages: SOMG-R3P-IQ (173)

**Spare Parts**

Designation							
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	
C8 PSROR/L-45080-19-IQ	TSX 6-IQ	LCL 20C-NX	SP 5	SATZ-M10X1-M5	HW 4.0	SR 10402352	SPP 5-6
C8 PSROR/L-45085-25-IQ	TSX 8-IQ	LCL 32-NX	SP 8	SATZ-M12X1-M6	HW 5.0	SR LCS 8-L39	

**PSBNR/L**

Lever Lock 75° Lead Angle  
Turning Tools Carrying ISO  
Negative Square Inserts



Designation	H	HF	B	LF	LH	WF	Insert
PSBNR/L 2020K-09	20.0	20.0	20.0	125.00	20.0	17.00	SNMG 0904
PSBNR/L 2525M-09	25.0	25.0	25.0	150.00	20.0	22.00	SNMG 0904
PSBNR 2525M-12	25.0	25.0	25.0	150.00	26.8	22.00	SNMG 1204
PSBNR/L 3232P-19	32.0	32.0	32.0	170.00	39.0	27.00	SNMG 1906
PSBNR/L 4040S-25 <sup>(1)</sup>	40.0	40.0	40.0	250.00	48.0	35.00	SNMG 2507

<sup>(1)</sup> For SN.. 2509... inserts, use TSN 84 seat

For inserts, see pages: SNMG-F3S (175) • SNMG-R3M (174) • SNMG-F3P (173) • SNMG-M3P (173) • SNMM-R3P (178) • SNMG-F3M (174) • SNMG-M3M (174) • SNMG-TF (176) • SNMG-GN (177) • SNMG-NR (177) • SNMM-NR (179) • SNMG-PP (175) • SNMG-VL (175) • SNMM-NM (179) • SNMM-H3P (178) • SNMM-H4P (178) • SNMM-H5P (179) • SNMA (177) • SNGA-Ceramic (218) • SNMA (CBN) (235)

**Spare Parts**

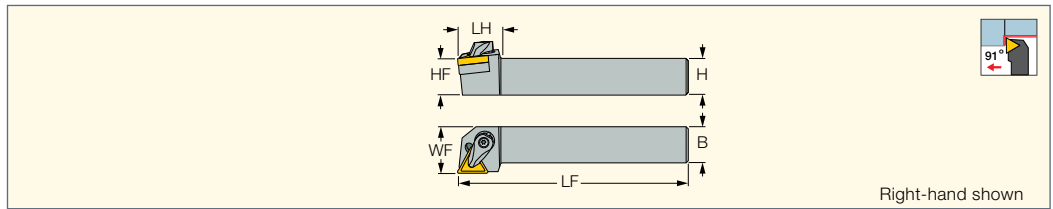
Designation							
PSBNR/L 2020K-09	TSN 323	TSN 333	SP 3	PN 3-3L	LR 3	SR 117-2014	HW 2.5
PSBNR/L 2525M-09	TSN 323	TSN 333	SP 3	PN 3-3L	LR 3	SR 117-2014	HW 2.5
PSBNR 2525M-12	TSN 423		SP 4	PN 3-4	LR 4	SR 117-2010	HW 3.0
PSBNR/L 3232P-19	RST 634		SP 66		LR 6	SR 10402352	HW 4.0
PSBNR/L 4040S-25	TSN 84N	TSN 85N*	SP 8		LR 8	SR 10402264	HW 5.0

\* Optional, should be ordered separately

**ISOTURN**

**DTGNR/L**

91° Lead Angle R-Clamp  
External Turning Tools Carrying  
Negative Triangular Inserts



Right-hand shown

Designation	H	HF	B	LF	LH	WF	Insert
<b>DTGNR/L 2020K-16</b>	20.0	20.0	20.0	125.00	25.0	25.00	TNMG 1604
<b>DTGNR/L 2525M-16</b>	25.0	25.0	25.0	150.00	25.0	32.00	TNMG 1604
<b>DTGNR 2525M-22</b>	25.0	25.0	25.0	150.00	32.0	32.00	TNMG 2204

**For inserts, see pages:** TNGA-J(CBN) (233) • TNGG-M3N (210) • TNMG-F3S (169) • TNMG-FFG-CERMET (169) • TNMG-F3P (167) • TNMG-M3P (167) • TNMG-F3M (168) • TNMG-M3M (168) • TNMG-TF (170) • TNMG-GN (171) • TNMM-NR (172) • TNMG/TNGG-PP (171) • TNMG-VL (170) • TNMG-PF (170) • TNMG-SF (169) • TNMG-NF (171) • TNMA (172) • TNGA-Ceramic (219) • TNGA-M3 (CBN) (234) • TNGA-MC/M6 (CBN) (233) • TNMA (CBN) (233)

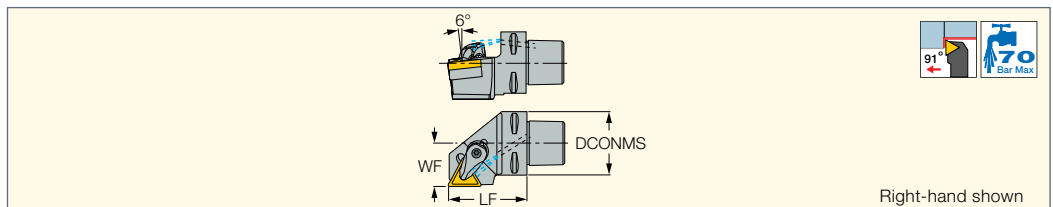
**Spare Parts**

Designation								
<b>DTGNR/L 2020K-16</b>	RTT 322	SR 35080I	LCGR-3		SR RC3	KSP 3	HW 2.5	
<b>DTGNR/L 2525M-16</b>	RTT 322	SR 35080I	LCGR-3		SR RC3	KSP 3	HW 2.5	
<b>DTGNR 2525M-22</b>	RTT 443	SR 14-506	LCGR-4	SR 10400270-25.5				T-15/5

**ISOTURN CAMFIX**

**C#-DTGNR/L**

91° Lead R-Clamp External  
Turning Tools with CAMFIX  
Exchangeable Shanks Carrying  
Negative Triangular Inserts



Right-hand shown

Designation	DCONMS	WF	LF	Insert	CP <sup>(1)</sup>	CDI <sup>(2)</sup>						
<b>C6 DTGNR/L-45065-22</b>	63.00	45.00	65.00	TN.. 22	70	1	RTT 443	SR 14-506 M4X0.7	LCGR-4	SR 10400270-25.5	T-15/5	EZ 104

<sup>(1)</sup> Coolant pressure (Bar)

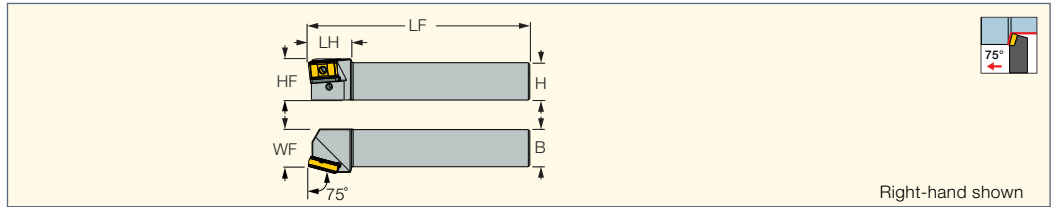
<sup>(2)</sup> 1 - Hole for data chip, 0 - Without hole for data chip

**For inserts, see pages:** TNMG-F3S (169) • TNMG-F3P (167) • TNMG-M3P (167) • TNMG-F3M (168) • TNMG-M3M (168) • TNMG-TF (170) • TNMG-GN (171) • TNMM-NR (172) • TNMG/TNGG-PP (171) • TNMA (172) • TNGA-Ceramic (219)



**PLBOR/L**

Lever Lock Tools Carrying LOMX Tangentially Clamped Super Heavy Turning Inserts



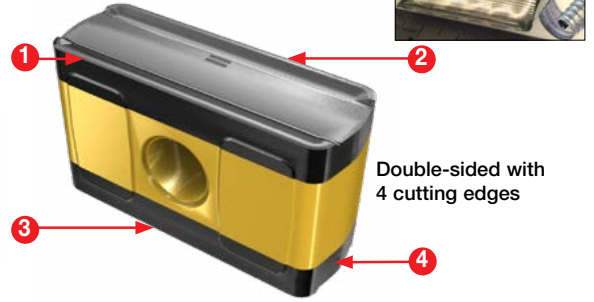
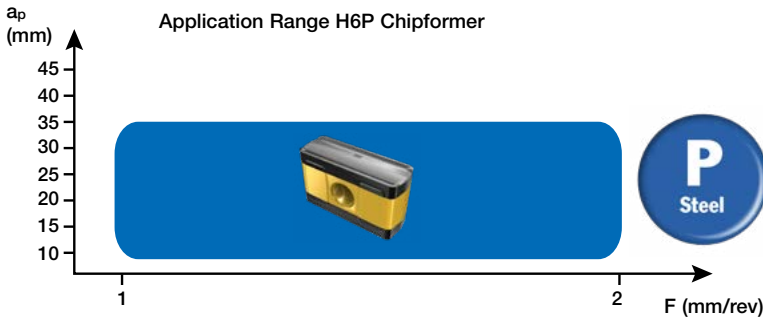
Right-hand shown

Designation	H	HF	B	LF	LH	WF	Insert
PLBOR/L 5050T-40	50.0	50.0	50.0	300.00	60.0	50.00	LOMX 4022
PLBOR/L 6060V-40	60.0	60.0	60.0	400.00	60.0	60.00	LOMX 4022

For inserts, see pages: LOMX-H6P (180)

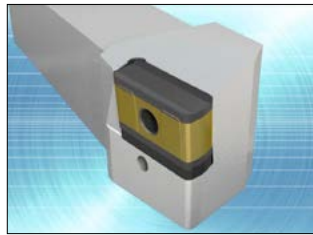
**ISCAR's tangential LOMX 402224-H6P insert for very heavy turning applications.**

This tangentially clamped insert with 4 cutting edges is made from the tough grade IC8250. It can machine at up to 35 mm depth of cut and up to 2 mm/rev feed. The insert is clamped on a very rigid lever lock pocket equipped with a protective seat.

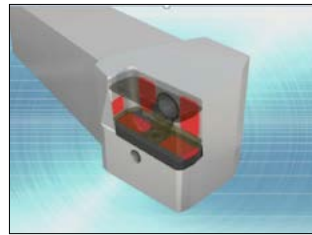


Double-sided with 4 cutting edges

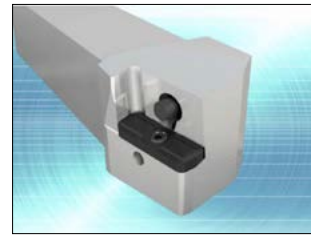
Tangentially Clamped Insert



Clamping Surfaces



Protective Seat

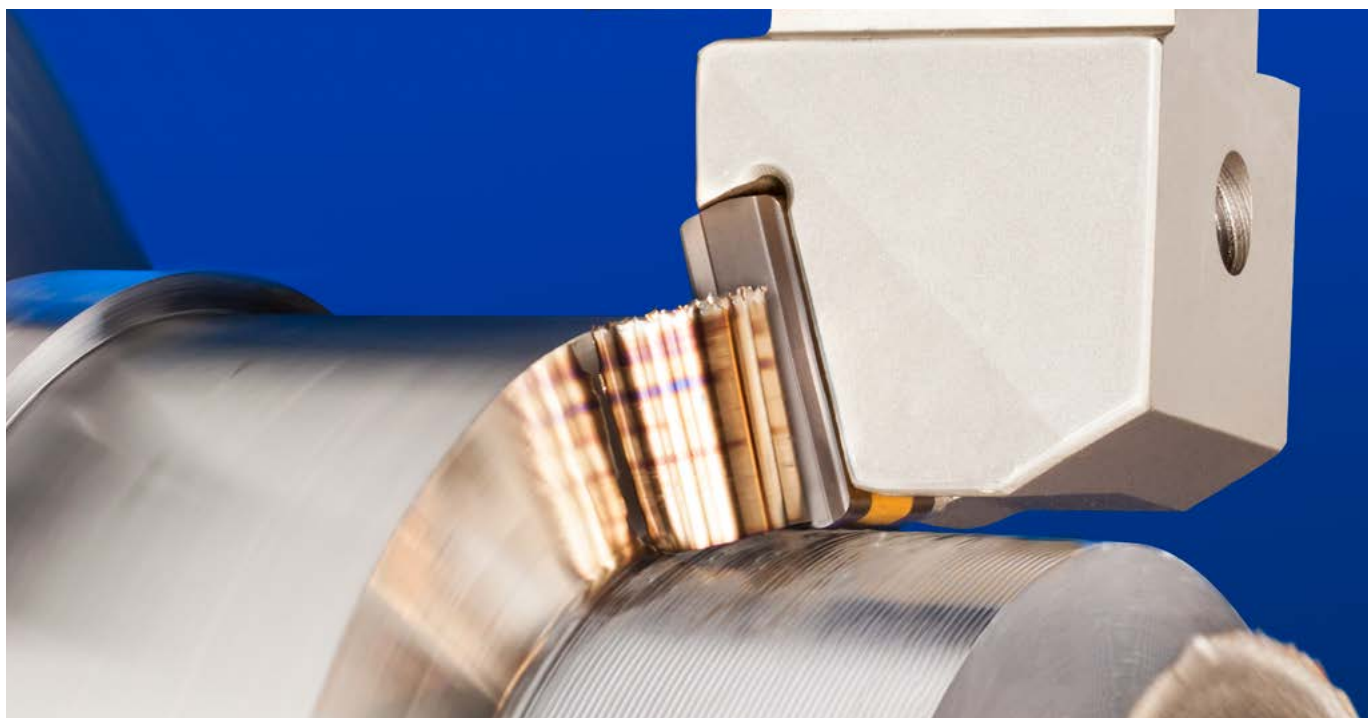


Lever Lock Accessible from Both Tool Sides



**Spare Parts**

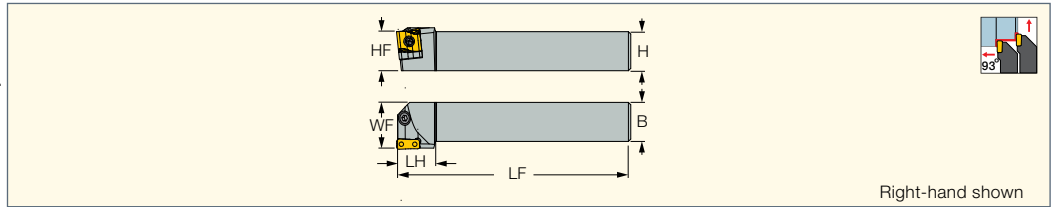
Designation							
PLBOR/L	TLN 40	SR 10402265	LR 8	SR 10643960	SP D7.5XL23	T-20/5	HW 6.0





**PLANR/L-TANG**

Lever Lock Tools Carrying LNMX..  
Tangentially Clamped Inserts



Right-hand shown

Designation	H	HF	B	LF	LH	WF	Insert
PLANR/L 2525M-15 TANG	25.0	25.0	25.0	150.00	25.0	30.00	LNMX 1506..R/L
PLANR/L 3232P-15 TANG	32.0	32.0	32.0	170.00	32.0	37.00	LNMX 1506..R/L
PLANR/L 3232P-22 TANG	32.0	32.0	32.0	170.00	32.0	37.00	LNMX 2210..R/L
PLANR/L 4040R-22 TANG	40.0	40.0	40.0	200.00	40.0	47.00	LNMX 2210..R/L

For inserts, see pages: LNMX-HM (181) • LNMX-HT (180) • LNMX-WG (181)



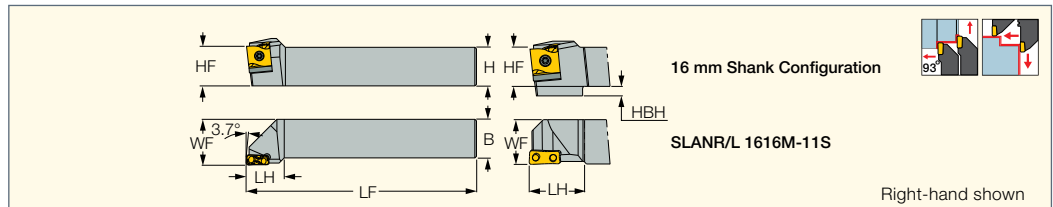
**Spare Parts**

Designation						
PLANR/L 2525M-15 TANG	TLN 15R/L-HT	SR RS4	T-6/5	LR T15	SR TL-15	HW 3.5
PLANR/L 3232P-15 TANG	TLN 15R/L-HT	SR RS4	T-6/5	LR T15	SR TL-15	HW 3.5
PLANR/L 3232P-22 TANG	TLN 22R/L-HT	SR 10500401	T-7/5	LR T22	SR TL22	HW 5.0
PLANR/L 4040R-22 TANG	TLN 22R/L-HT	SR 10500401	T-7/5	LR T22	SR TL22	HW 5.0



**SLANR/L-TANG**

Screw-Lock Tools Carrying the LNMX.. Tangentially Clamped Inserts



Designation	H	HF	B	LF	LH	WF	Insert	HBH
SLANR/L 1616H-11 TANG	16.0	16.0	16.0	100.00	20.0	20.00	LNMX 1104..	4.0
SLANR/L 1616M-11S TANG	16.0	16.0	16.0	150.00	20.0	16.20	LNMX 1104..	4.0
SLANR/L 2020K-11 TANG	20.0	20.0	20.0	125.00	20.0	25.00	LNMX 1104..	4.0
SLANR/L 2525M-11 TANG	25.0	25.0	25.0	150.00	25.0	30.00	LNMX 1104..	4.0
SLANR/L 2020K-15 TANG	20.0	20.0	20.0	125.00	25.0	25.00	LNMX 1506..	4.0
SLANR/L 2525M-15 TANG	25.0	25.0	25.0	150.00	25.0	30.00	LNMX 1506..	4.0
SLANR/L 3232P-15 TANG	32.0	32.0	32.0	170.00	35.0	37.00	LNMX 1506..	4.0
SLANR/L 4040R-15 TANG	40.0	40.0	40.0	200.00	35.0	45.00	LNMX 1506..	4.0
SLANR/L 3232P-22 TANG	32.0	32.0	32.0	170.00	35.0	38.00	LNMX 2210..	4.0
SLANR/L 4040R-22 TANG	40.0	40.0	40.0	200.00	40.0	47.00	LNMX 2210..	4.0

• a<sub>p</sub> max for facing: LNMX 11-2.8 mm, LNMX 15-3.8 mm, LNMX 22-5.8 mm  
For inserts, see pages: LNMX-HM (181) • LNMX-HT (180) • LNMX-WG (181)

The **HELITURN** system features a unique, double-sided insert with 4 cutting edges for Fast Metal Removal (FMR) turning.

**HELITURN** is a tangentially clamped insert with a unique helical shaped cutting edge, useful for large depths of cut and higher than normal feed rates.

The LNMX...-HT **HELITURN** insert is a screw clamped into the SLANR toolholder and supported by the TLN ...-HT carbide seat. This seat has ground surfaces on the top and bottom to ensure perfect contact of the insert with the toolholder.

The upper rake face of this insert is mounted level with the top of the toolholder to enable chips to flow across the insert without being disturbed by clamps or the toolholder body. The 4 curved helical cutting edges ensure positive radial rake angles and soft penetration into the material being cut.

The lower forces and smaller loads ensure better tool life, higher stability and the ability to use very large depths of cut and higher feeds.

The chipformer (with small bumps), deforms and breaks the chip into rib type curved segments which can easily be removed from the cutting area.

The insert has a frontal clearance angle of 3.7° with a 6° side clearance angle to enable machining at a 90° shoulder. Depths of cut up to 8 mm and facing depths up to 3.2 mm and up to 1.2 mm/rev are achievable with **HELITURN**.

The high positive rake angle of these tools allows 10-15% less power usage than conventional tools with the same parameters. By using **HELITURN** tools, huge cost savings and profitability in lathe operations are guaranteed.

**Spare Parts**

Designation						
SLANL 1616H-11 TANG	TLN 11R/L-HT	SR RS4	T-6/5	SR 34-550-C	BLD T10/S7	SW6-SD
SLANL 1616M-11S TANG	TLN 11R/L-HT	SR RS4	T-6/5	SR 34-550-C	BLD T10/S7	SW6-SD
SLANR 1616H-11 TANG	TLN 11R/L-HT	SR RS4	T-6/5	SR 34-550-C	BLD T10/S7	SW6-SD
SLANR 1616M-11S TANG	TLN 11R/L-HT	SR RS4	T-6/5	SR 34-550-C	BLD T10/S7	SW6-SD
SLANL 2020K-11 TANG	TLN 11R/L-HT	SR RS4	T-6/5	SR 34-550-C	BLD T10/S7	SW6-SD
SLANR 2020K-11 TANG	TLN 11R/L-HT	SR RS4	T-6/5	SR 34-550-C	BLD T10/S7	SW6-SD
SLANL 2525M-11 TANG	TLN 11R/L-HT	SR RS4	T-6/5	SR 34-550-C	BLD T10/S7	SW6-SD
SLANR 2525M-11 TANG	TLN 11R/L-HT	SR RS4	T-6/5	SR 34-550-C	BLD T10/S7	SW6-SD
SLANL 2020K-15 TANG	TLN 15R/L-HT	SR RS4	T-6/5	SR 34-535-SN	BLD T15/S7	SW6-T-SH
SLANR 2020K-15 TANG	TLN 15R/L-HT	SR RS4	T-6/5	SR 34-535-SN	BLD T15/S7	SW6-T-SH
SLANL 2525M-15 TANG	TLN 15R/L-HT	SR RS4	T-6/5	SR 34-535-SN	BLD T15/S7	SW6-T-SH
SLANR 2525M-15 TANG	TLN 15R/L-HT	SR RS4	T-6/5	SR 34-535-SN	BLD T15/S7	SW6-T-SH
SLANL 3232P-15 TANG	TLN 15R/L-HT	SR RS4	T-6/5	SR 34-535-SN	BLD T15/S7	SW6-T-SH
SLANR 3232P-15 TANG	TLN 15R/L-HT	SR RS4	T-6/5	SR 34-535-SN	BLD T15/S7	SW6-T-SH
SLANL 4040R-15 TANG	TLN 15R/L-HT	SR RS4	T-6/5	SR 34-535-SN	BLD T15/S7	SW6-T-SH
SLANR 4040R-15 TANG	TLN 15R/L-HT	SR RS4	T-6/5	SR 34-535-SN	BLD T15/S7	SW6-T-SH
SLANL 3232P-22 TANG	TLN 22R/L-HT	SR 10500401	T-7/5	SR 14-591/L-SN	BLD T20/S7	SW6-T-SH
SLANR 3232P-22 TANG	TLN 22R/L-HT	SR 10500401	T-7/5	SR 14-591/L-SN	BLD T20/S7	SW6-T-SH
SLANL 4040R-22 TANG	TLN 22R/L-HT	SR 10500401	T-7/5	SR 14-591/L-SN	BLD T20/S7	SW6-T-SH
SLANR 4040R-22 TANG	TLN 22R/L-HT	SR 10500401	T-7/5	SR 14-591/L-SN	BLD T20/S7	SW6-T-SH

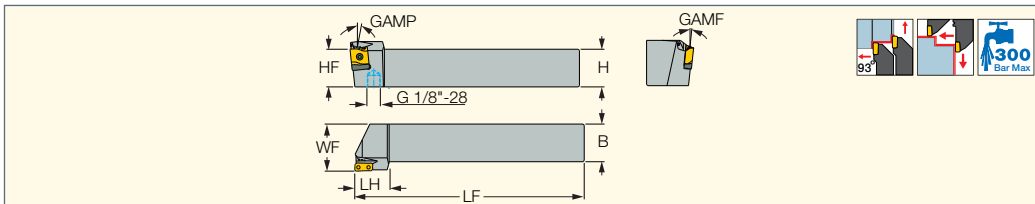






**SLANR/L-15-TANG-JHP**

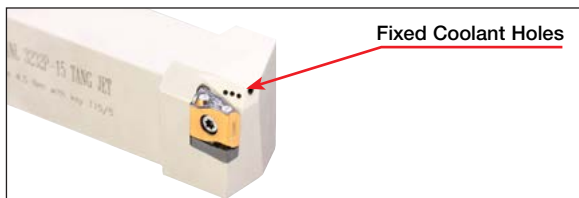
Screw-Lock Tools with Channels for High-Pressure Coolant Carrying LNMX Tangentially Clamped Inserts



Designation	H	HF	B	LF	LH	WF	GAMP	GAMF	Insert
SLANR/L 3232P-15 TANG-JHP	32.0	32.0	32.0	170.00	30.0	40.00	-6.0	-6.0	LNMX 1506

• a<sub>p</sub> max for facing 3.8 mm • For user guide, see pages 78-84  
 For inserts, see pages: LNMX-HM (181) • LNMX-HT (180) • LNMX-WG (181)

The tools with LNMX 1506... inserts feature fixed coolant holes



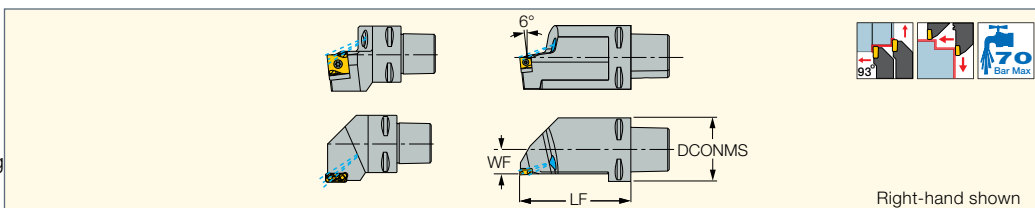
**Spare Parts**

Designation						
SLANR/L 3232P-15 TANG-JHP	TLN 15R/L-HT	SR RS4	SR 34-535-SN	BLD T15/S7	SW6-T-SH	T-6/5



**C#-SLANR/L-TANG**

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



Designation	DCONMS	LF	WF	Insert	CP <sup>(2)</sup>	CDI <sup>(3)</sup>
C4 SLANR-27050-11 TANG	40.00	50.00	27.00	LNMX 1104..	70	1
C6 SLANR 25110-11 TANG <sup>(1)</sup>	63.00	110.00	25.00	LNMX 1104..	70	1
C4 SLANR/L-27050-15 TANG	40.00	50.00	27.00	LNMX 1506..	70	1
C5 SLANR/L-35060-15 TANG	50.00	60.00	35.00	LNMX 1506..	70	1
C6 SLANR 25110-15 TANG <sup>(1)</sup>	63.00	110.00	25.00	LNMX 1506..	70	1
C6 SLANR/L-45065-15 TANG	63.00	65.00	45.00	LNMX 1506..	70	1
C6 SLANR/L-45065-22 TANG	63.00	65.00	45.00	LNMX 2210..	70	1

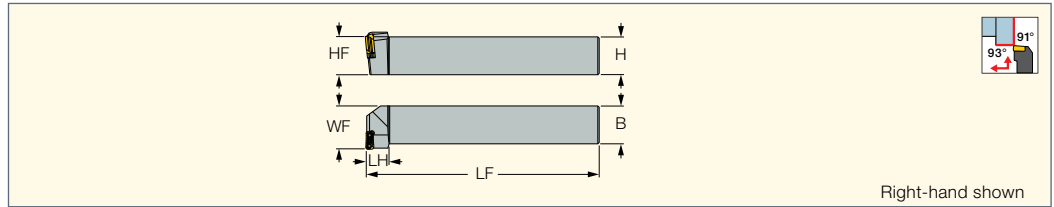
• a<sub>p</sub> max for facing: LNMX 11-2.8 mm, LNMX 15-3.8 mm  
<sup>(1)</sup> Designed for mill-turn machines  
<sup>(2)</sup> Coolant pressure (Bar)  
<sup>(3)</sup> 1 - Hole for data chip, 0 - Without hole for data chip  
 For inserts, see pages: LNMX-HM (181) • LNMX-HT (180) • LNMX-WG (181)

**Spare Parts**

Designation							
C4 SLANR-27050-11 TANG	TLN 11R-HT	SR RS4	T-6/5	SR 34-550-C	BLD T10/S7	SW6-SD	EZ 83
C6 SLANR 25110-11 TANG	TLN 11R-HT	SR RS4	T-6/5	SR 34-550-C	BLD T10/S7	SW6-SD	EZ 146
C4 SLANR/L-27050-15 TANG	TLN 15R/L-HT	SR RS4	T-6/5	SR 34-535-SN	BLD T15/S7	SW6-T-SH	EZ 104
C4 SLANR-27050-15 TANG	TLN 15R/L-HT	SR RS4	T-6/5	SR 34-535-SN	BLD T15/S7	SW6-T-SH	EZ 104
C5 SLANL-35060-15 TANG	TLN 15R/L-HT	SR RS4	T-6/5	SR 34-535-SN	BLD T15/S7	SW6-T-SH	EZ 104
C5 SLANR-35060-15 TANG	TLN 15R/L-HT	SR RS4	T-6/5	SR 34-535-SN	BLD T15/S7	SW6-T-SH	EZ 104
C6 SLANR 25110-15 TANG	TLN 15R/L-HT	SR RS4	T-6/5	SR 34-535-SN	BLD T15/S7	SW6-T-SH	EZ 146
C6 SLANL-45065-15 TANG	TLN 15R/L-HT	SR RS4	T-6/5	SR 34-535-SN	BLD T15/S7	SW6-T-SH	EZ 104
C6 SLANR-45065-15 TANG	TLN 15R/L-HT	SR RS4	T-6/5	SR 34-535-SN	BLD T15/S7	SW6-T-SH	EZ 104
C6 SLANL-45065-22 TANG	TLN 22R/L-HT	SR 10500401	T-7/5	SR 14-591/L-SN	BLD T20/S7	SW6-T-SH	EZ 104
C6 SLANR-45065-22 TANG	TLN 22R/L-HT	SR 10500401	T-7/5	SR 14-591/L-SN	BLD T20/S7	SW6-T-SH	EZ 104

**SLFNR/L-TANG**

Tools Carrying LNMX  
Tangentially Clamped Inserts



Designation	H	HF	B	LF	LH	WF	Insert <sup>(1)</sup>
SLFNR/L 2525M-15 TANG	25.0	25.0	25.0	150.00	20.0	30.00	LNMX 1506..L/R
SLFNR/L 3232P-15 TANG	32.0	32.0	32.0	170.00	20.0	37.00	LNMX 1506..L/R

• a<sub>p</sub> max for longitudinal turning is 5.8 mm

<sup>(1)</sup> Right-hand insert for left-hand holder, left-hand insert for right-hand holder

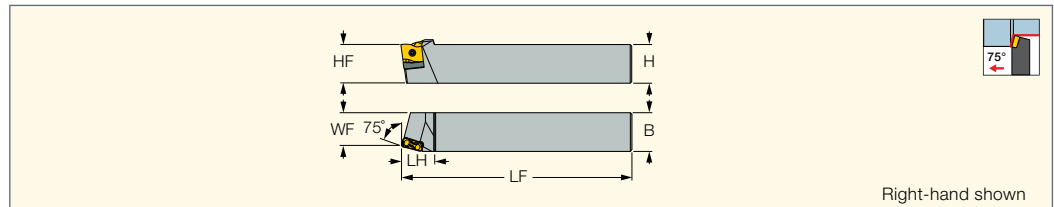
For inserts, see pages: LNMX-HM (181) • LNMX-HT (180) • LNMX-WG (181)

**Spare Parts**

Designation						
SLFNR/L-TANG	TLN 15R/L-HT	SR RS4	T-6/5	SR 34-535-SN	BLD T15/S7	SW6-T-SH

**SLBNR/L-TANG**

External 75° Lead Tools  
Carrying Tangentially  
Screw Clamped Inserts



Designation	H	HF	B	LF	LH	WF	Insert
SLBNR/L 4040R-22 TANG	40.0	40.0	40.0	200.00	35.0	35.00	LNMX 2210..R/L

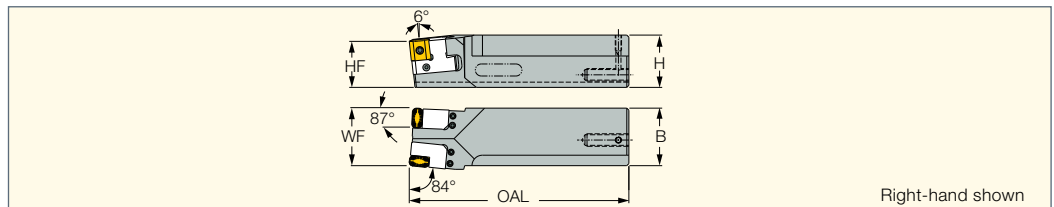
For inserts, see pages: LNMX-HT (180)

**Spare Parts**

Designation						
SLBNR/L-TANG	TLN 22R/L-HT	SR 10500401	T-7/5	SR 14-591/L-SN	BLD T20/S7	SW6-T-SH

**PRWR/L**

Toolholders with Cartridges for  
Under Floor Railroad Wheel  
Re-Turning Lathes (Model 106  
Thread Profile Machine)



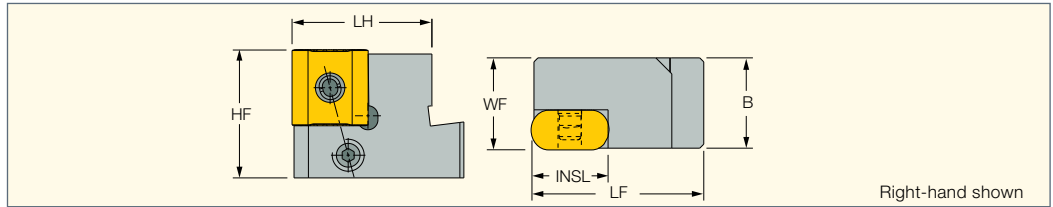
Designation	H	HF	B	OAL	WF		
PRWR/L 50-55	50.0	44.0	55.0	210.00	55.00	SR M6X1X16	HW 3.0

• Cartridges should be ordered separately

For tools, see pages: PRWR/L 175-CA (50) • PRWR/L 177-CA (50)

**ISOTURN**

**PRWR/L 175-CA**  
Cartridges for PRWR/L 50-55  
Railroad Wheel Re-Turning Tools

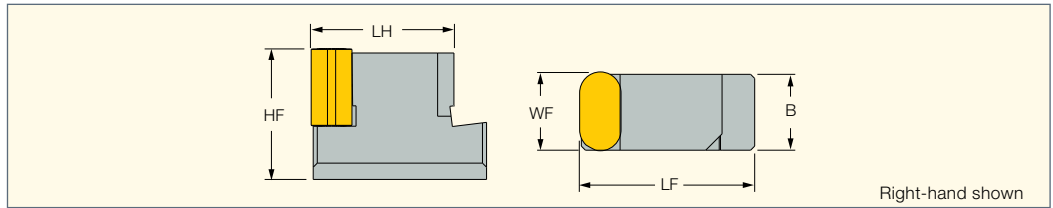


Designation	HF	B	LF	LH	WF	INSL	Insert			
PRWR/L 175-CA-19	32.0	22.6	43.00	35.0	23.00	19.00	LNMX 191940	SR LCS 5	LR 5	HW 3.0
PRWR/L 175-CA-30	32.0	22.6	43.00	35.0	23.00	30.00	LNMX 301940	SR LCS 5	LR 5	HW 3.0

For inserts, see pages: LNMX 19/30 (182)

**ISOTURN**

**PRWR/L 177-CA**  
Cartridges for PRWR/L 50-55  
Railroad Wheel Re-Turning Tools

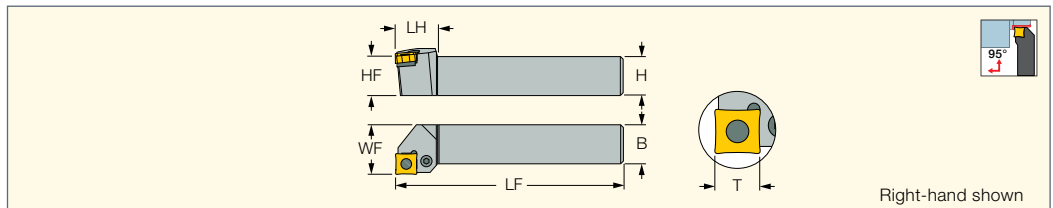


Designation	HF	B	LF	LH	WF	Insert			
PRWR/L 177-CA-19	32.0	18.6	43.00	35.0	19.10	LNMX 191940	SR LCS 5	LR 5	HW 3.0

For inserts, see pages: LNMX 19/30 (182)

**ISOTURN**

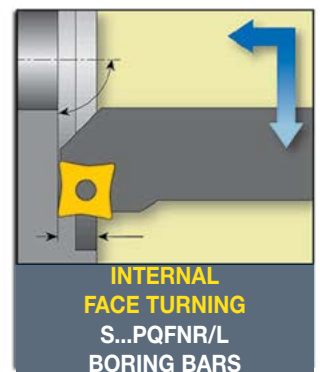
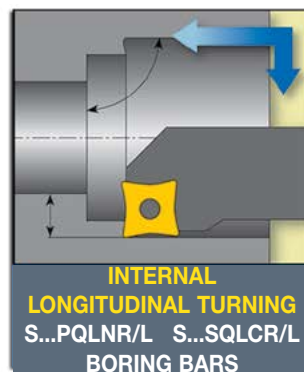
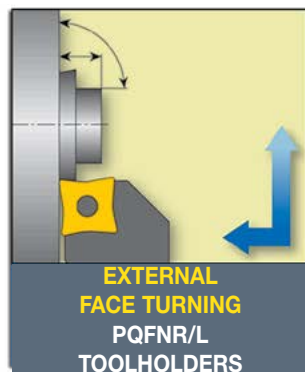
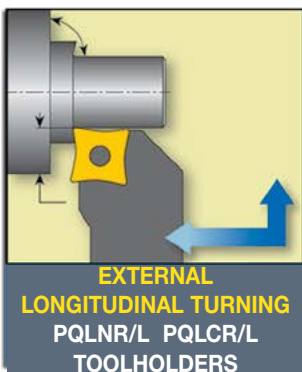
**PQLNR/L**  
Lever Lock Tools Carrying  
Negative Inserts with  
Four 80° Corners



Designation	H	HF	B	LF	LH	WF	T <sup>(1)</sup>	Insert
PQLNR/L 1616H-09	16.0	16.0	16.0	100.00	21.0	20.00	8	QNMGM 0904
PQLNR/L 2020K-09	20.0	20.0	20.0	125.00	26.6	25.00	8	QNMGM 0904
PQLNR/L 2525M-09	25.0	25.0	25.0	150.00	26.6	32.00	8	QNMGM 0904
PQLNR/L 2020K-12	20.0	20.0	20.0	125.00	26.6	25.00	10	QNMGM 1204
PQLNR/L 2525M-12	25.0	25.0	25.0	150.00	26.6	32.00	10	QNMGM 1204

<sup>(1)</sup> T for r 0.8

For inserts, see pages: QNMGM-GN (183) • QNMGM-NF (182) • QNMGM-PP (182) • QNMGM-TF (182)



Depth of shoulder T with angles over 92° is unlimited in both directions.

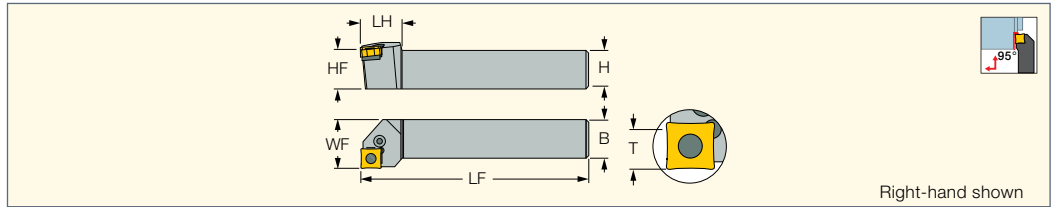
**Spare Parts**

Designation						
PQLNR/L 1616H-09	TXC 322	SP 3	PN 3-4	LR 3	SR 117-2014	HW 2.5
PQLNR/L 2020K-09	TXC 322	SP 3	PN 3-4	LR 3	SR 117-2014	HW 2.5
PQLNR/L 2525M-09	TXC 322	SP 3	PN 3-4	LR 3	SR 117-2014	HW 2.5
PQLNR/L 2020K-12	TSN 423	SP 4	PN 3-4	LR 4	SR 117-2010	HW 3.0
PQLNR/L 2525M-12	TSN 423	SP 4	PN 3-4	LR 4	SR 117-2010	HW 3.0

# ISOTURN

## PQFNR/L

Lever Lock Face Turning Tools  
Carrying Negative Inserts  
with Four 80° Corners



Designation	H	HF	B	LF	LH	WF	T <sup>(1)</sup>	Insert
PQFNR/L 2020K-09	20.0	20.0	20.0	125.00	26.0	25.00	8	QNMG 0904
PQFNR/L 2020K-12	20.0	20.0	20.0	125.00	26.0	25.00	10	QNMG 1204
PQFNR/L 2525M-12	25.0	25.0	25.0	150.00	26.0	25.00	10	QNMG 1204

<sup>(1)</sup> T for r 0.8

For inserts, see pages: QNMG-GN (183) • QNMG-NF (182) • QNMG-PP (182) • QNMG-TF (182)

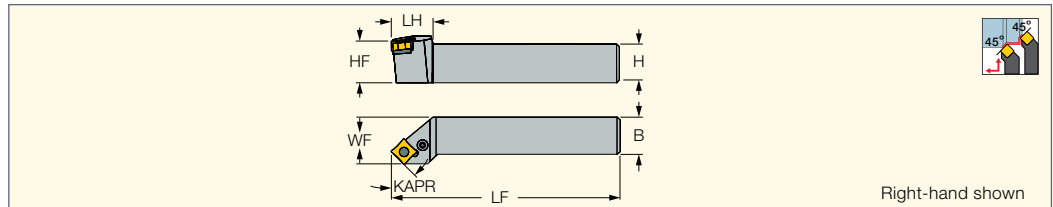
### Spare Parts

Designation						
PQFNR/L 2020K-09	TXC 322	SP 3	PN 3-4	LR 3	SR 117-2014	HW 2.5
PQFNR/L 2020K-12	TSN 423	SP 4	PN 3-4	LR 4	SR 117-2010	HW 3.0
PQFNR/L 2525M-12	TSN 423	SP 4	PN 3-4	LR 4	SR 117-2010	HW 3.0

# ISOTURN

## PQSNR/L

External 45° Lead Tools  
Carrying Negative Inserts  
with Four 80° Corners



Designation	H	HF	B	LF	LH	WF	Insert	KAPR <sup>(1)</sup>
PQSNR/L 2525M-12	25.0	25.0	25.0	150.00	30.0	32.00	QNMG 1204	45.0

<sup>(1)</sup> Tool cutting edge angle

For inserts, see pages: QNMG-GN (183) • QNMG-NF (182) • QNMG-PP (182) • QNMG-TF (182)

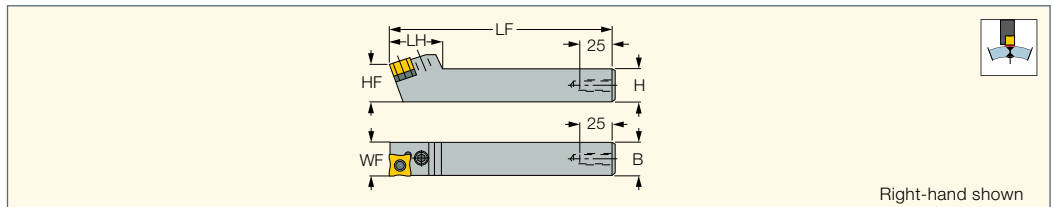
### Spare Parts

Designation						
PQSNR/L	TSN 423	SP 4	PN 3-4	LR 4	SR 117-2010	HW 3.0

# ISOTURN

## PSANR/L

Lever Lock Tools Carrying  
Negative Square Pipe  
Skiving Inserts



Designation	H	B	HF	LF	LH	WF	Insert
PSANR/L 2525M-15 <sup>(1)</sup>	25.0	25.0	26.0	150.00	38.0	25.00	SNMX 1507

<sup>(1)</sup> TXN 5-2 for SNMX 150608R-.. inserts without chipbreaker for hard materials.

For inserts, see pages: SNMX 150608R-.. (215) • SNMX 150708R-.. (215)

### Spare Parts

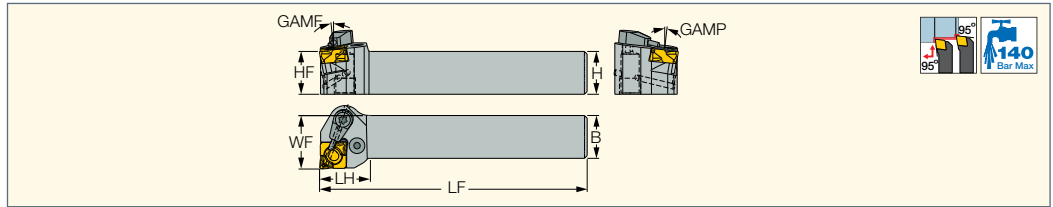
Designation					
PSANR/L 2525M-15	TXN 532	TXN 5-2*	SR 117-2020	LR 5S	HW 3.0

\* Optional, should be ordered separately



**PCLXR/L-JHP**

Lever Lock Tools with Channels for High-Pressure Coolant Carrying CXMG 80° Rhombic Inserts



Designation	B	H	HF	LF	LH	WF	GAMP	GAMF	Insert
PCLXR/L 1212F-09X-JHP	12.0	12.0	12.0	80.00	20.0	16.00	6.0	6.0	CXMG 09...
PCLXR/L 1616H-09X-JHP	16.0	16.0	16.0	100.00	20.0	20.00	6.0	6.0	CXMG 09...
PCLXR/L 2020K-12X-JHP	20.0	20.0	20.0	125.00	25.0	25.00	6.0	6.0	CXMG 12...
PCLXR/L 2525M-12X-JHP	25.0	25.0	25.0	150.00	25.0	32.00	6.0	6.0	CXMG 12...

• For user guide, see pages 78-84

For inserts, see pages: CXMG-F3M (184) • CXMG-F3P (183) • CXMG-M3M (184) • CXMG-M3P (183)

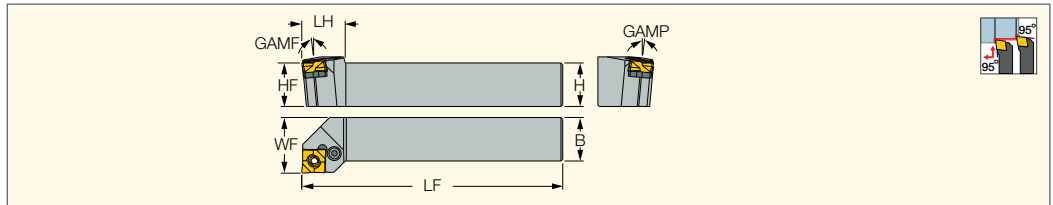
**Spare Parts**

Designation								
PCLXR/L 1212F-09X-JHP		LR 3X SET	SR M6XL11.5V			T-8/5		S-CU-JHP-A SET
PCLXR/L 1616H-09X-JHP		LR 3X SET	SR M6XL11.5V			T-8/5		S-CU-JHP-A SET
PCLXR/L 2020K-12X-JHP	TCNX 423	LR 4X	SR LCS 5	HW 3.0	PN 3-4		SP 4	CH-1.9D-JHP-A SET
PCLXR/L 2525M-12X-JHP	TCNX 423	LR 4X	SR LCS 5	HW 3.0	PN 3-4		SP 4	CH-1.9D-JHP-A SET



**PCLXR/L**

Lever Lock Tools Carrying CXMG 80° Rhombic Inserts



Designation	B	H	HF	LF	LH	WF	GAMP	GAMF	Insert
PCLXR/L 1212F-09X	12.0	12.0	12.0	80.00	19.0	16.00	6.0	6.0	CXMG 09...
PCLXR/L 1616H-09X	16.0	16.0	16.0	100.00	19.0	20.00	6.0	6.0	CXMG 09...
PCLXR/L 2020K-12X	20.0	20.0	20.0	125.00	25.0	25.00	6.0	6.0	CXMG 12...
PCLXR/L 2525M-12X	25.0	25.0	25.0	150.00	25.0	32.00	6.0	6.0	CXMG 12...

For inserts, see pages: CXMG-F3M (184) • CXMG-F3P (183) • CXMG-M3M (184) • CXMG-M3P (183)

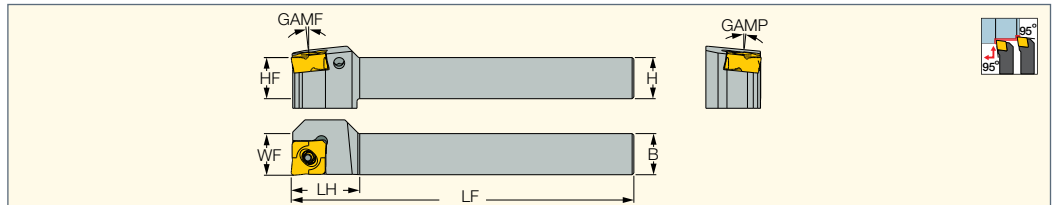
**Spare Parts**

Designation								
PCLXR/L 1212F-09X		LR 3X SET	SR M6XL11.5V			T-8/5		
PCLXR/L 1616H-09X		LR 3X SET	SR M6XL11.5V			T-8/5		
PCLXR/L 2020K-12X	TCNX 423	LR 4X	SR LCS 5	HW 3.0	PN 3-4		SP 4	
PCLXR/L 2525M-12X	TCNX 423	LR 4X	SR LCS 5	HW 3.0	PN 3-4		SP 4	



**PCLXR/L-S**

Lever Lock Tools Carrying CXMG 80° Rhombic Inserts for Swiss-Type Automatic Lathes



Designation	B	H	HF	LF	LH	WF	GAMP	GAMF	MIID <sup>(1)</sup>
PCLXR/L 1212H-09XS	12.0	12.0	12.0	100.00	20.0	12.15	6.0	6.0	CXMG 090402-F3P
PCLXL 1616K-09XS	16.0	16.0	16.0	125.00	20.0	16.00	6.0	6.0	CXMG 090402-F3P
PCLXR 1616K-09XS	16.0	16.0	16.0	125.00	20.0	16.15	6.0	6.0	CXMG 090402-F3P

<sup>(1)</sup> Master insert identification

For inserts, see pages: CXMG-F3M (184) • CXMG-F3P (183) • CXMG-M3M (184) • CXMG-M3P (183)

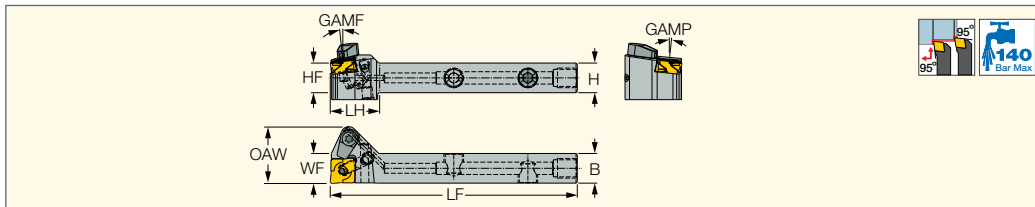
**Spare Parts**

Designation						
PCLXR/L-S	LR 3X SET	SR-SW-M4X0.7	PIN-SW LR-3X	SR M5X5 SPR	T-8/5	SPRING-.55X2.9X6X6.8



**PCLXR/L-S-JHP**

Lever Lock Tools with JETCUT Coolant System Carrying CXMG 80° Rhombic Inserts for Swiss-Type Automatic Lathes



Designation	B	H	HF	LF	LH	WF	OAW	GAMP	GAMF	MIID <sup>(1)</sup>
PCLXR/L 1212H-09XS-JHP	12.0	12.0	12.0	100.00	20.0	12.15	23.00	6.0	6.0	CXMG 090402-F3P
PCLXR/L 1616K-09XS-JHP	16.0	16.0	16.0	125.00	20.0	16.15	23.00	6.0	6.0	CXMG 090402-F3P

• For user guide, see pages 78-84

<sup>(1)</sup> Master insert identification

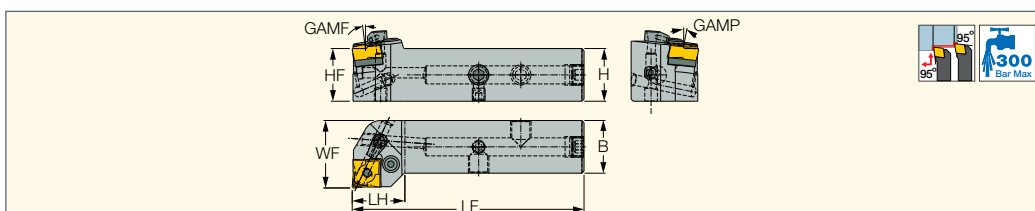
For inserts, see pages: CXMG-F3M (184) • CXMG-F3P (183) • CXMG-M3M (184) • CXMG-M3P (183)

**Spare Parts**

Designation									
PCLXR/L-S-JHP	LR 3X SET	SR-SW-M4X0.7	PIN-SW LR-3X	SR M5X5 SPR	SR 5/16UNF TL360	T-8/5	SPRING-.55X2.9X6X6.8	CH-1.9D-JHP-A SET	SR M3X3 DIN913 TL360

**PCLXR/L-JHP-MC**

Lever Lock Tools with Channels for High-Pressure Coolant Carrying CXMG 80° Rhombic Inserts



Designation	B	H	HF	LF	LH	WF	GAMP	GAMF	Insert	MIID <sup>(1)</sup>
PCLXR/L 2020X-09X-JHP-MC	20.0	20.0	20.0	90.00	20.0	25.00	6.0	6.0	CXMG 09...	CXMG 09...
PCLXR/L 2525X-09X-JHP-MC	25.0	25.0	25.0	105.00	20.0	32.00	6.0	6.0	CXMG 09...	CXMG 09...
PCLXR/L 2020X-12X-JHP-MC	20.0	20.0	20.0	95.00	25.0	25.00	6.0	6.0	CXMG 12...	CXMG 12...
PCLXR/L 2525X-12X-JHP-MC	25.0	25.0	25.0	110.00	25.0	32.00	6.0	6.0	CXMG 12...	CXMG 12...

• For user guide, see pages 78-84

<sup>(1)</sup> Master insert identification

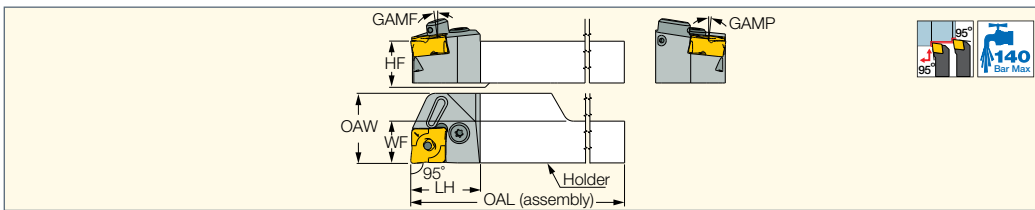
For inserts, see pages: CXMG-F3M (184) • CXMG-F3P (183) • CXMG-M3M (184) • CXMG-M3P (183)

**Spare Parts**

Designation										
PCLXL 2020X-09X-JHP-MC	TSN 323	S-CU-JHP-A SET	SR M5X5 DIN913 TL360	SR M6X6 DIN913 TL360	PLG G1/8 TL360	SR 117-2014	PN 3-4	SP 3	HW 2.5/5	
PCLXR 2020X-09X-JHP-MC	TSN 323	S-CU-JHP-A SET	SR M5X5 DIN913 TL360	SR M6X6 DIN913 TL360	PLG G1/8 TL360	SR 117-2014	PN 3-4	SP 3	HW 2.5/5	
PCLXL 2525X-09X-JHP-MC	TSN 323	S-CU-JHP-A SET	SR M5X5 DIN913 TL360	SR M6X6 DIN913 TL360	PLG G1/8 TL360	SR 117-2014	LR 3XL	PN 3-4	SP 3	HW 2.5/5
PCLXR 2525X-09X-JHP-MC	TSN 323	S-CU-JHP-A SET	SR M5X5 DIN913 TL360	SR M6X6 DIN913 TL360	PLG G1/8 TL360	SR 117-2014	LR 3XL	PN 3-4	SP 3	HW 2.5/5
PCLXL 2020X-12X-JHP-MC	TCNX 423	CH-1.9D-JHP-A SET	SR M5X5 DIN913 TL360	SR M6X6 DIN913 TL360	PLG G1/8 TL360	SR LCS 5	LR 4X	PN 3-4	SP 4	HW 3.0
PCLXR 2020X-12X-JHP-MC	TCNX 423	CH-1.9D-JHP-A SET	SR M5X5 DIN913 TL360	SR M6X6 DIN913 TL360	PLG G1/8 TL360	SR LCS 5	LR 4X	PN 3-4	SP 4	HW 3.0
PCLXL 2525X-12X-JHP-MC	TCNX 423	CH-1.9D-JHP-A SET	SR M5X5 DIN913 TL360	SR M6X6 DIN913 TL360	PLG G1/8 TL360	SR LCS 5	LR 4X	PN 3-4	SP 4	HW 3.0
PCLXR 2525X-12X-JHP-MC	TCNX 423	CH-1.9D-JHP-A SET	SR M5X5 DIN913 TL360	SR M6X6 DIN913 TL360	PLG G1/8 TL360	SR LCS 5	LR 4X	PN 3-4	SP 4	HW 3.0

**NQCH-PCLXR/L-S-JHP**

Lever Lock Modular Heads with High-Pressure Coolant, Positive Double-Sided 80° Rhombic Inserts for SwissType Machines



Designation	WF	HF	LH	OAL	OAW	GAMP	GAMF	Insert
NQCH12-PCLXR/L-09X-JHP	12.15	12.0	20.0	120.00	20.15	6.0	6.0	CXMG.. 0904
NQCH16-PCLXR/L-09X-JHP	16.15	16.0	20.0	120.00	20.15	6.0	6.0	CXMG.. 0904

• For user guide, see pages 6-7, 78-84

For inserts, see pages: CXMG-F3M (184) • CXMG-F3P (183) • CXMG-M3M (184) • CXMG-M3P (183)

For holders, see pages: NQCH-JHP (61)

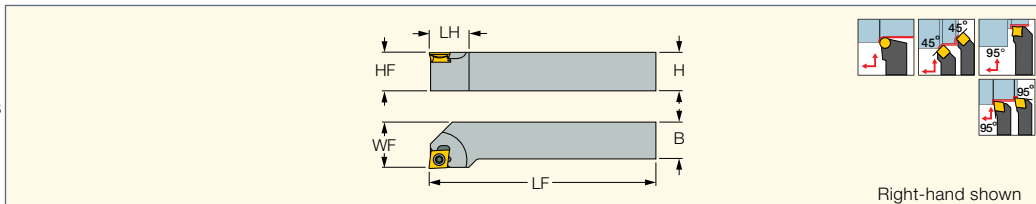
**Spare Parts**

Designation			
NQCH-PCLXR/L-S-JHP	LR 3X SET	SR M6XL11.5V	T-8/5

## CHAMTURN

### SUXCR/L-CM

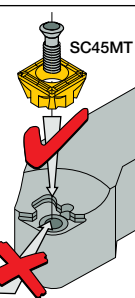
Screw Lock Tools Carrying Four Different 7° Clearance Geometries



Designation	H	HF	B	LF	LH	WF
SUXCR/L 1616H-10 CM	16.0	16.0	16.0	100.00	24.0	20.00
SUXCR/L 2020K-10 CM	20.0	20.0	20.0	125.00	25.0	25.00
SUXCR/L 2525M-10 CM	25.0	25.0	25.0	150.00	25.0	32.00

For inserts, see pages: CC95MT-SM (208) • SC45MT-SM (209)

Designation	H	HF	LF	LH	WF	Inserts
SUXCR/L 1616H-10 CM	16.0	16.0	100.00	24.0	20	CC95MT...
					21.2	SC45MT...
SUXCR/L 2020K-10 CM	20.0	20.0	125.00	25.0	25	CC95MT...
					26.2	SC45MT...
SUXCR/L 2525M-10 CM	25.0	25.0	150.00	25.0	32	CC95MT...
					33.2	SC45MT...





### Multifunction Tool Can Carry Two Different Inserts

- Unique, versatile ISCAR pocket
- For external applications
- Covers most common operations
- Simplifies tool selection
- Simple screw clamping
- Minimum spare parts

Clamping direction for SC45MT...

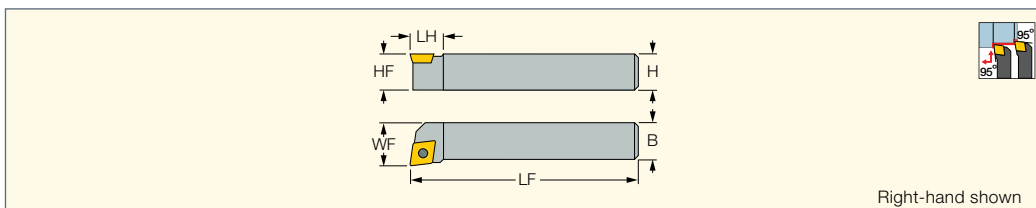
### Spare Parts






Designation		
SUXCR/L-CM	SR 14-544/S	T-15/5

## ISOTURN

### SCLCR/L

Screw Lock Tools Carrying 80° Diamond Inserts with 7° Clearance Angle



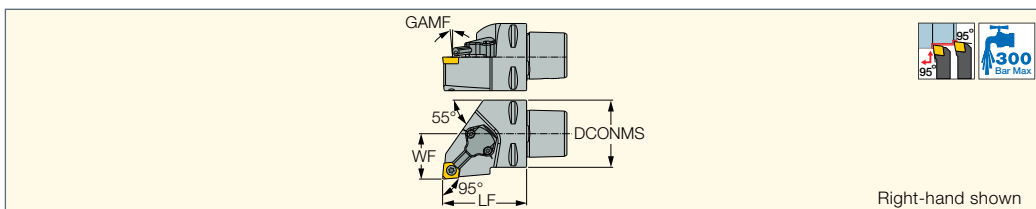
Designation	H	HF	B	LF	LH	WF	Insert					
SCLCR/L 0808F-06	8.0	8.0	8.0	80.00	10.0	10.00	CC.. 0602	SR 14-548	T-7/5			
SCLCR/L 1010F-06	10.0	10.0	10.0	80.00	10.0	12.00	CC.. 0602	SR 14-548	T-7/5			
SCLCR/L 1212F-09	12.0	12.0	12.0	80.00	14.0	16.00	CC.. 09T3	SR 16-236	T-15/5			
SCLCR/L 1616H-09	16.0	16.0	16.0	100.00	14.0	20.00	CC.. 09T3	SR 16-236	T-15/5			
SCLCR/L 2020K-12	20.0	20.0	20.0	125.00	18.0	25.00	CC.. 1204	SR 16-212	T-20/5			
SCLCR/L 2525M-12	25.0	25.0	25.0	150.00	20.0	32.00	CC.. 1204	SR 16-212	T-20/5	TCC 4-2	SR TC-4	HW 3.0






For inserts, see pages: CCMT-CERMET (187) • CCMT-F3P (185) • CCMT-M3P (185) • CCMT-F3M (186) • CCMT-M3M (186) • CCMT-PF (188) • CCMT/CCGT-SM (187) • CCET-WF (189) • CCMT-WG (189) • CCGT-AS (212) • CCGT-AF (212) • CCMT-14 (188) • CCMT/CCGT (188) • CCGW/CCMT (CBN) (227) • CCGW/CCMW-2 (CBN) (228) • CCMT (PCD) (222)

## ISOTURN JETCUT

### CAMFIX

C#-SCLCR/L-JHP  
Screw Clamp Tools with CAMFIX Shanks and Channels for High-Pressure Coolant Carrying Positive 80° Rhombic Inserts



Designation	DCONMS	WF	LF	GAMF	Insert	CDI <sup>(1)</sup>	CP <sup>(2)</sup>					
C3 SCLCR-22045-09-JHP	32.00	22.00	45.00	0.0	CC.. 09T3	0	300	SR 16-236	T-15/5	CU-CW-JHP		T-8/5
C4 SCLCR/L 27050-09-JHP	40.00	27.00	50.00	0.0	CC.. 09T3	1	300	SR 16-236	T-15/5	CU-CW-JHP	SR M5X5 DIN913 TL360	T-8/5
C5 SCLCR/L 35060-09-JHP	50.00	35.00	60.00	0.0	CC.. 09T3	1	300	SR 16-236	T-15/5	CU-CW-JHP	SR M5X5 DIN913 TL360	T-8/5

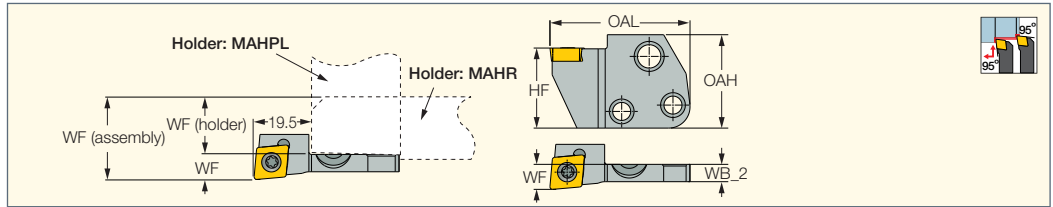
• For user guide, see pages 78-84

<sup>(1)</sup> 1 - Hole for data chip, 0 - Without hole for data chip

<sup>(2)</sup> Coolant pressure (Bar)

For inserts, see pages: CCMT-CERMET (187) • CCMT-F3P (185) • CCMT-M3P (185) • CCMT-F3M (186) • CCMT-M3M (186) • CCMT-PF (188) • CCMT/CCGT-SM (187) • CCET-WF (189) • CCMT-WG (189) • CCGT-AS (212) • CCGT-AF (212) • CCMT-14 (188) • CCMT/CCGT (188) • CCGW/CCMT (CBN) (227) • CCGW/CCMW-2 (CBN) (228) • CCMT (PCD) (222)

**SCLCR-PAD**  
Screw Lock Adapter Carrying  
80° Diamond Inserts with  
7° Clearance Angle

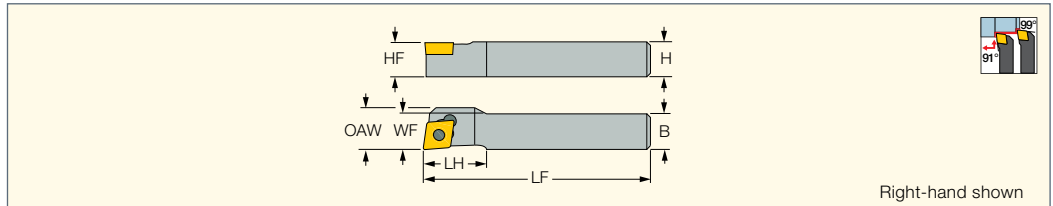


Designation	HF	OAL	OAH	WF	WB_2	Insert		
<b>SCLCR-09-PAD</b>	24.0	42.00	28.0	7.50	5.2	CCGT/CCMT 09T3	SR 16-236	T-15/5

**For inserts, see pages:** CCMT-CERMET (187) • CCMT-F3P (185) • CCMT-M3P (185) • CCMT-F3M (186) • CCMT-M3M (186) • CCMT-PF (188)  
• CCMT/CCGT-SM (187) • CCET-WF (189) • CCMT-WG (189) • CCGT-AS (212) • CCGT-AF (212) • CCMT-14 (188) • CCMT/CCGT (188) • CCGW/CCMT (CBN) (227)  
• CCGW/CCMW-2 (CBN) (228) • CCMT (PCD) (222)

**For holders, see pages:** C#-MAHPD-JHP (625) • MAHR/L-JHP-MC (280) • C#-MAHD-JHP (624) • MAHPR/L-JHP (281) • MAHR/L-JHP (279)  
• MAHR/L (279) • MAHPR/L (280) • C#-MAHD (624) • C#-MAHPD (625) • C#-MAHDR-45 (623) • C#-MAHDOR (624) • HSK A63WH-MAHUR/L (632)  
• HSK A63WH-MAHDR-45 (631) • HSK A63WH-MAHDOR (631) • IM-MAHD (633) • IM-MAHPD (633) • HMSN-New Britain (478) • DGHAL-DECO (478)

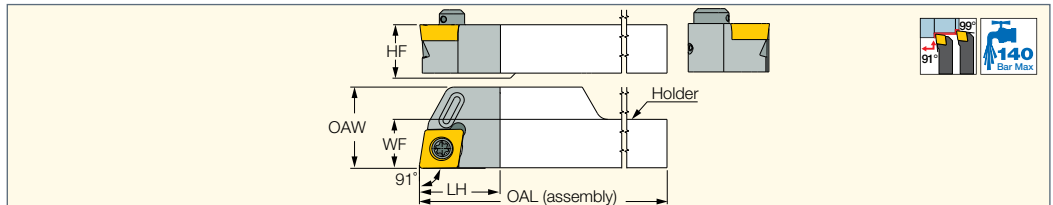
**SCACR/L-S**  
Screw Lock Tools for  
Swiss-Type Machines Carrying 7°  
Clearance 80° Diamond Inserts



Designation	H	HF	B	LF	LH	WF	OAW	Insert		
<b>SCACR/L 0808K-06S</b>	8.0	8.0	8.0	125.00	8.0	8.20	-	CC.. 0602	SR 14-548	T-7/5
<b>SCACR/L 1010K-06S</b>	10.0	10.0	10.0	150.00	-	10.00	-	CC.. 0602	SR 14-548	T-7/5
<b>SCACR/L 1616K-06S</b>	16.0	16.0	16.0	125.00	-	16.20	-	CC.. 0602	SR 14-548	T-7/5
<b>SCACR/L 1010K-09S</b>	10.0	10.0	10.0	125.00	15.2	10.20	-	CC.. 09T3	SR 16-236	T-15/5
<b>SCACR/L 1212K-09S</b>	12.0	12.0	12.0	125.00	14.0	12.15	12.5	CC.. 09T3	SR 16-236	T-15/5
<b>SCACR/L 1616K-09S</b>	16.0	16.0	16.0	125.00	-	16.20	-	CC.. 09T3	SR 16-236	T-15/5

**For inserts, see pages:** CCMT-CERMET (187) • CCMT-F3P (185) • CCMT-M3P (185) • CCMT-F3M (186) • CCMT-M3M (186) • CCMT-PF (188)  
• CCMT/CCGT-SM (187) • CCET-WF (189) • CCMT-WG (189) • CCGT-AS (212) • CCMT-14 (188) • CCMT/CCGT (188) • CCGW/CCMT (CBN) (227)  
• CCGW/CCMW-2 (CBN) (228) • CCMT (PCD) (222)

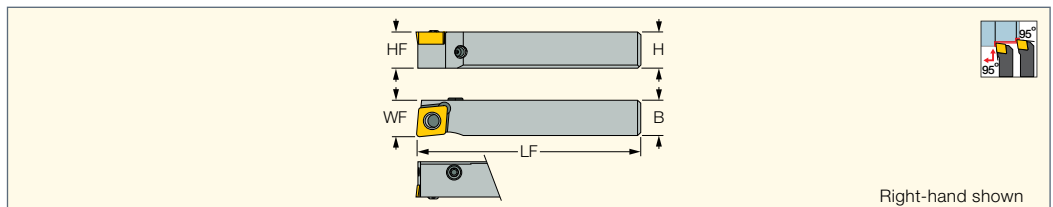
**NQCH-SCACR/L-JHP**  
Screw Lock Modular Heads  
with High-Pressure Coolant - 7°  
Clearance 80° Rhombic Inserts  
for SwissType Machines



Designation	WF	HF	LH	OAL	OAW	Insert		
<b>NQCH12-SCACR/L-09S-JHP</b>	12.15	12.0	20.0	120.00	20.15	CC.. 09T3	SR 16-236	T-15/5
<b>NQCH16-SCACR/L-09S-JHP</b>	16.15	16.0	20.0	120.00	20.15	CC.. 09T3	SR 16-236	T-15/5

For user guide, see pages 6-7, 78-84  
**For holders, see pages:** NQCH-JHP (61)

**PCLCR/L-S**  
Side Lever Lock Tools Carrying  
80° Positive Rhombic Inserts  
for Swiss Automatic Machines



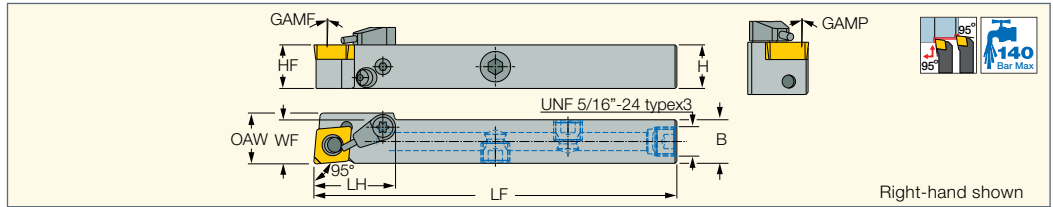
Designation	H	HF	B	LF	WF	Insert				
<b>PCLCR 0808M-06S</b>	8.0	8.0	8.0	150.00	8.00	CC.. 0602	SL LV-2	SL PI-2 PIN	SR 10400611	HW 2.0/5
<b>PCLCR/L 1010M-06S</b>	10.0	10.0	10.0	150.00	10.20	CC.. 0602	SL LV-2	SL PI-2 PIN	SR 10400611	HW 2.0/5
<b>PCLCR/L 1212M-06S</b>	12.0	12.0	12.0	150.00	12.20	CC.. 0602	SL LV-2	SL PI-2 PIN	SR 10400611	HW 2.0/5
<b>PCLCR/L 1616M-06S</b>	16.0	16.0	16.0	150.00	16.20	CC.. 0602	SL LV-2	SL PI-2 PIN	SR 10400611	HW 2.0/5
<b>PCLCR/L 1012M-09S</b>	10.0	10.0	12.0	150.00	12.20	CC.. 09T3	SL LV-3	SL PI-3	SR 10400150	HW 2.5/5
<b>PCLCR/L 1212M-09S</b>	12.0	12.0	12.0	150.00	12.20	CC.. 09T3	SL LV-3	SL PI-3	SR 10400150	HW 2.5/5
<b>PCLCR/L 1616M-09S</b>	16.0	16.0	16.0	150.00	16.20	CC.. 09T3	SL LV-3	SL PI-3	SR 10400150	HW 2.5/5
<b>PCLCR/L 2020K-09S</b>	20.0	20.0	20.0	125.00	20.20	CC.. 09T3	SL LV-3	SL PI-3	SR 10400150	HW 2.5/5

• The clamping screw may be transferred to the opposite side if needed  
**For inserts, see pages:** CCMT-CERMET (187) • CCMT-F3P (185) • CCMT-M3P (185) • CCMT-F3M (186) • CCMT-M3M (186) • CCMT-PF (188)  
• CCMT/CCGT-SM (187) • CCET-WF (189) • CCMT-WG (189) • CCGT-AS (212) • CCGT-AF (212) • CCMT-14 (188) • CCMT/CCGT (188) • CCGW/CCMT (CBN) (227)  
• CCGW/CCMW-2 (CBN) (228) • CCMT (PCD) (222)

## ISOTURN JETCUT

### PCLCR/L-S-JHP

Tools with Channels for High-Pressure Coolant Carrying 80° Positive Rhombic Inserts for Swiss Automatic Machines

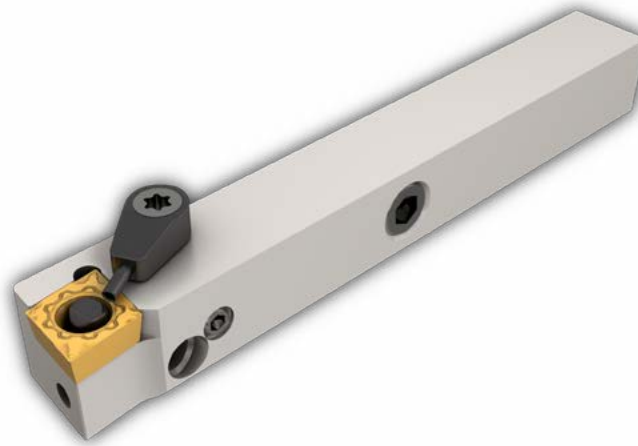


Designation	H	HF	B	LF	LH	WF	OAW	GAMP	GAMF	Insert
PCLCR/L 1010H-06S-JHP	10.0	10.0	10.0	100.00	22.3	10.20	-	0.0	0.0	CC..0602
PCLCR/L 1212H-09S-JHP	12.0	12.0	12.0	100.00	22.3	12.20	14.0	0.0	0.0	CC..09T3
PCLCR/L 1616K-09S-JHP	16.0	16.0	16.0	125.00	22.3	16.20	-	0.0	0.0	CC..09T3
PCLCR/L 2020K-09S-JHP	20.0	20.0	20.0	125.00	22.3	20.20	-	0.0	0.0	CC..09T3

- For user guide, see pages 78-84
- For inserts, see pages: CCMT-F3P (185) • CCMT-M3P (185) • CCMT-F3M (186) • CCMT-M3M (186) • CCMT-PF (188) • CCMT/CCGT-SM (187) • CCET-WF (189) • CCMT-WG (189) • CCGT-AS (212) • CCGT-AF (212) • CCMT-14 (188) • CCMT/CCGT (188) • CCGW/CCMT (CBN) (227) • CCGW/CCMW-2 (CBN) (228) • CCMT (PCD) (222) • CCMT-CERMET (187)

#### Spare Parts

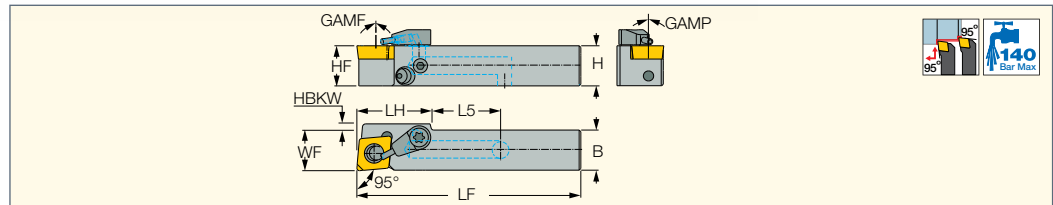
Designation						
PCLCR/L-S-JHP	SL LV-3	SL PI-3	SR 10400150	HW 2.5/5	SR 5/16UNF TL360	S-CU-JHP-A SET



## ISOTURN JETCUT

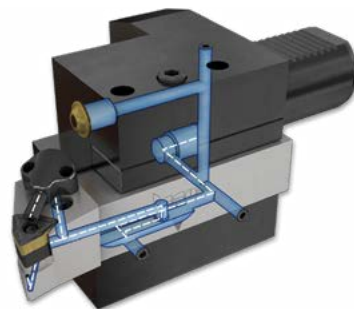
### PCLCR/L-JHP-MC

Tools with Channels for High-Pressure Coolant Carrying 80° Positive Rhombic Inserts for Swiss Automatic Machines



Designation	H	HF	B	LF	LH	L5	WF	HBKW	GAMP	GAMF	Insert
PCLCR/L 1212X-09S-JHP-MC	12.0	12.0	12.0	67.00	23.0	20.00	12.20	1.80	0.0	0.0	CC..09T3
PCLCR/L 1616X-09S-JHP-MC	16.0	16.0	16.0	71.00	23.0	17.00	16.20	-	0.0	0.0	CC..09T3

- For user guide, see pages 78-84
- For inserts, see pages: CCET-WF (189) • CCGT-AF (212) • CCGT-AS (212) • CCGW/CCMT (CBN) (227) • CCGW/CCMW-2 (CBN) (228) • CCMT (PCD) (222) • CCMT-14 (188) • CCMT-CERMET (187) • CCMT-F3M (186) • CCMT-F3P (185) • CCMT-M3M (186) • CCMT-M3P (185) • CCMT-PF (188) • CCMT-WG (189) • CCMT/CCGT (188) • CCMT/CCGT-SM (187)

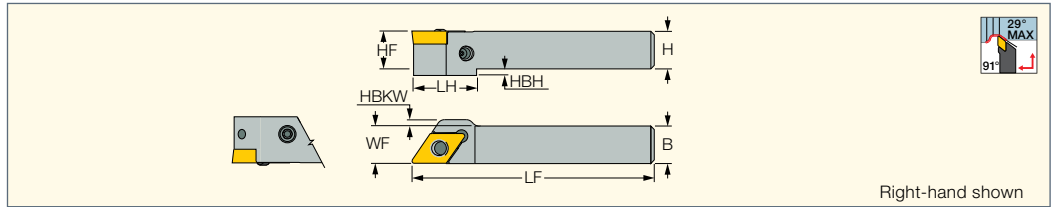


#### Spare Parts

Designation						
PCLCR/L-JHP-MC	SL LV-3	SL PI-3	SR 10400150	HW 2.5/5	SR 5/16UNF TL360	S-CU-JHP-A SET

**PDACR/L-S**

Side Lever Lock Tools Carrying 55° Positive Rhombic Inserts for Swiss Automatic Machines



Designation	H	HF	LH	HBH	B	LF	WF	HBKW	Insert				
PDACR/L 0808M-07S	8.0	8.0	16.0	2.0	8.0	150.00	8.00	-	DC..0702	SL LV-2	SL PI-2 PIN	SR 10400611	HW 2.0/5
PDACR/L 1010M-07S	10.0	10.0	-	-	10.0	150.00	10.00	-	DC..0702	SL LV-2	SL PI-2 PIN	SR 10400611	HW 2.0/5
PDACR/L 1212M-07S	12.0	12.0	-	-	12.0	150.00	12.00	-	DC..0702	SL LV-2	SL PI-2 PIN	SR 10400611	HW 2.0/5
PDACR/L 1616M-07S	16.0	16.0	-	-	16.0	150.00	16.00	-	DC..0702	SL LV-2	SL PI-2 PIN	SR 10400611	HW 2.0/5
PDACR/L 1012M-11S	10.0	10.0	22.0	2.5	12.0	150.00	12.00	2.00	DC..11T3	SL LV-3	SL PI-3	SR 10400150	HW 2.5/5
PDACR/L 1212M-11S	12.0	12.0	-	-	12.0	150.00	12.00	2.00	DC..11T3	SL LV-3	SL PI-3	SR 10400150	HW 2.5/5
PDACR/L 1616M-11S	16.0	16.0	-	-	16.0	150.00	16.00	-	DC..11T3	SL LV-3	SL PI-3	SR 10400150	HW 2.5/5
PDACR/L 2020K-11S	20.0	20.0	-	-	20.0	125.00	20.00	-	DC..11T3	SL LV-3	SL PI-3	SR 10400150	HW 2.5/5

• The clamping screw may be transferred to the opposite side if needed

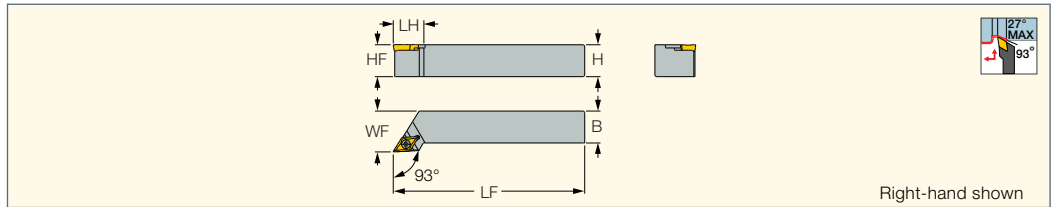
For inserts, see pages: DCGT-F1M-20P (192) • DCMT-CERMET (192) • DCMT-F3P (190) • DCMT-M3M (191) • DCMT/DCGT-PF (193) • DCMT/DCGT-SM (194)

• DCET-WF (195) • DCGT-AS (213) • DCGT-AF (213) • DCMT-14 (194) • DCMT/DCGT (194) • DCGW/DCMW-2 (CBN) (230) • DCMT (CBN) (230) • DCMT (PCD) (222)

**T-LOCK ISOTURN**

**SDJCR/L-13-SL**

Screw Lock Tools Carrying 55° Diamond Inserts with 7° Clearance Angle for High Rigidity in Profiling Applications



Designation	H	HF	B	LF	LH	WF	Insert		
SDJCR/L 1616H-13-SL	16.0	16.0	16.0	100.00	24.0	21.00	DCMT 13T5-SL	SR M4X0.7-L9.6 IP15	TORX PLUS IP15X45
SDJCR/L 2020K-13-SL	20.0	20.0	20.0	125.00	24.0	27.00	DCMT 13T5-SL	SR M4X0.7-L9.6 IP15	TORX PLUS IP15X45
SDJCR/L 2525M-13-SL	25.0	25.0	25.0	150.00	24.0	32.00	DCMT 13T5-SL	SR M4X0.7-L9.6 IP15	TORX PLUS IP15X45

• Insert clamping torque 3 Nxm

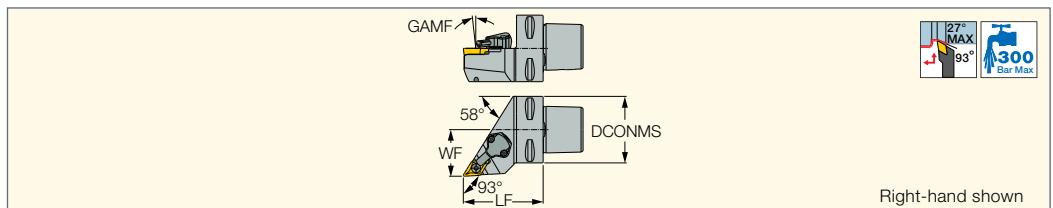
For inserts, see pages: DCMT-F3P-SL (190) • DCMT-M3M-SL (191) • DCMT-PF-SL (193) • DCMT-SM-SL (193)

**T-LOCK JETCUT**

**CAMFIX**

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

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



Designation	DCONMS	WF	LF	GAMF	Insert	CDI <sup>(1)</sup>
C3 SDJCR-22040-13-SL-JHP	32.00	22.00	40.00	0.0	DCMT 13T5-SL	0
C4 SDJCR/L-27055-13-SL-JHP	40.00	27.00	55.00	0.0	DCMT 13T5-SL	1
C5 SDJCR/L-35060-13-SL-JHP	50.00	35.00	60.00	0.0	DCMT 13T5-SL	1

• For user guide, see pages 78-84

<sup>(1)</sup> 1 - Hole for data chip, 0 - Without hole for data chip

For inserts, see pages: DCMT-F3P-SL (190) • DCMT-M3M-SL (191) • DCMT-PF-SL (193) • DCMT-SM-SL (193)

**Spare Parts**

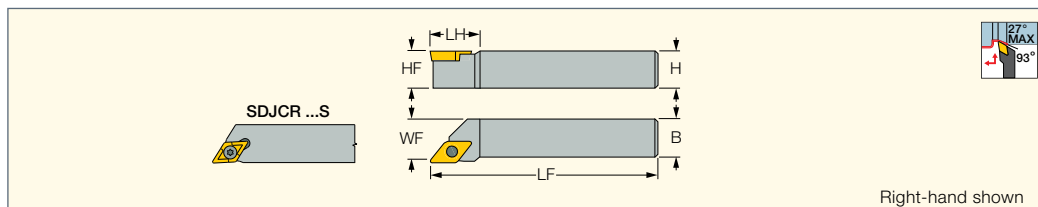
Designation					
C3 SDJCR-22040-13-SL-JHP	CH-1.9D-JHP	SR M4X4 DIN913 TL360		SR M4X0.7-L9.5 IP15	
C4 SDJCR/L-27055-13-SL-JHP	CU-D-JHP	SR M5X5 DIN913 TL360	TORX PLUS IP15X45	SR M4X0.7-L9.6 IP15	T-8/5
C5 SDJCR/L-35060-13-SL-JHP	CU-D-JHP	SR M5X5 DIN913 TL360	TORX PLUS IP15X45	SR M4X0.7-L9.6 IP15	T-8/5



## ISOTURN

### SDJCR/L

Screw Lock Tools Carrying  
55° Diamond Inserts with  
7° Clearance Angle



Right-hand shown

Designation	H	HF	B	LF	LH	WF	Insert								
SDJCR/L 0808F-07	8.0	8.0	8.0	80.00	11.5	10.00	DC..0702	SR 14-548	T-7/5						
SDJCR/L 1010F-07	10.0	10.0	10.0	80.00	11.5	12.00	DC..0702	SR 14-548	T-7/5						
SDJCR/L 1212K-07S <sup>(1)</sup>	12.0	12.0	12.0	125.00	-	12.20	DC..0702	SR 14-548	T-7/5						
SDJCR/L 1616K-07S <sup>(1)</sup>	16.0	16.0	16.0	125.00	-	16.20	DC..0702	SR 14-548	T-7/5						
SDJCR/L 1010K-11S <sup>(1)</sup>	10.0	10.0	10.0	125.00	21.4	10.20	DC..11T3	SR 16-236	T-15/5						
SDJCR/L 1212F-11	12.0	12.0	12.0	80.00	20.0	16.00	DC..11T3	SR 16-236 P	T-15/5						
SDJCR/L 1616H-11	16.0	16.0	16.0	100.00	20.0	20.00	DC..11T3	SR 16-236 P	T-15/5						
SDJCR/L 2020K-11	20.0	20.0	20.0	125.00	20.0	25.00	DC..11T3	SR 16-236 P	T-15/5						
SDJCR/L 2525M-11	25.0	25.0	25.0	150.00	20.0	32.00	DC..11T3	SR 16-236 P	T-15/5	TDC 3-1P	SR TC-3P	HW 4.0			

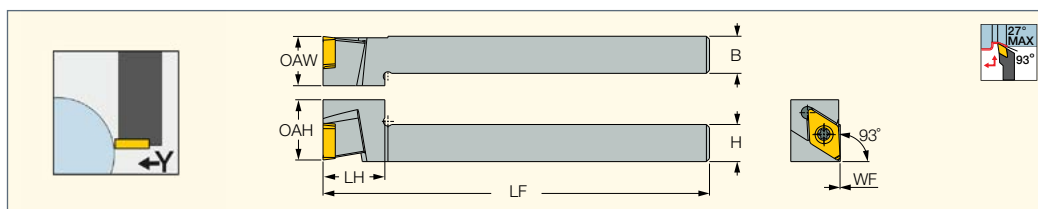
<sup>(1)</sup> For Swiss-type machines

For inserts, see pages: DCGT-F1M-20P (192) • DCMT-CERMET (192) • DCMT-F3P (190) • DCMT-M3M (191) • DCMT/DCGT-PF (193) • DCMT/DCGT-SM (194) • DCET-WF (195) • DCGT-AS (213) • DCGT-AF (213) • DCMT-14 (194) • DCMT/DCGT (194) • DCGW/DCMW-2 (CBN) (230) • DCMT (CBN) (230) • DCMT (PCD) (222)

## NEO<sup>AXIS</sup> SWISS

### Y-SDJCR

Y-Axis Screw Lock Tools  
Carrying 55° Diamond Inserts  
with 7° Clearance Angle for  
Swiss-Type Machines



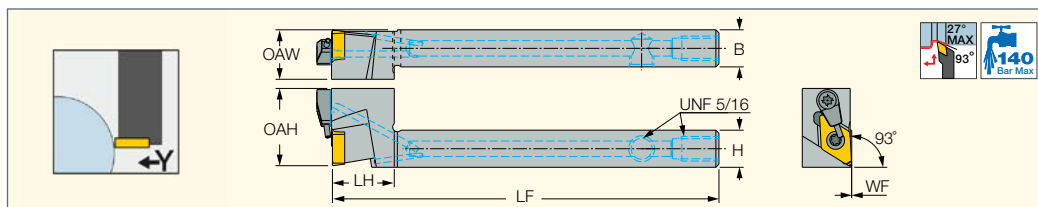
Designation	H	B	LF	LH	OAH	OAW	WF	Insert
Y-SDJCR 1212K-11S	12.0	12.0	125.00	21.0	20.00	16.00	0.00	DCMT 11T3..
Y-SDJCR 1616K-11S	16.0	16.0	125.00	21.0	20.00	16.00	0.00	DCMT 11T3..

For inserts, see pages: DCET-WF (195) • DCGT-AF (213) • DCGT-AS (213) • DCGW/DCMW-2 (CBN) (230) • DCMT (CBN) (230) • DCMT (PCD) (222) • DCMT-14 (194) • DCMT-CERMET (192) • DCMT-F3P (190) • DCMT-M3M (191) • DCMT/DCGT (194) • DCMT/DCGT-PF (193) • DCMT/DCGT-SM (194)

## NEO<sup>AXIS</sup> SWISS

### Y-SDJCR-JHP

Y-Axis Screw Lock Tools  
with High-Pressure Coolant  
Carrying 55° Diamond Inserts  
with 7° Clearance Angle



Designation	H	B	LF	LH	OAH	OAW	WF	Insert
Y-SDJCR 1212K-11S-JHP	12.0	12.0	125.00	21.0	25.50	16.00	0.00	DCMT 11T3..
Y-SDJCR 1616K-11S-JHP	16.0	16.0	125.00	21.0	25.50	16.00	0.00	DCMT 11T3..

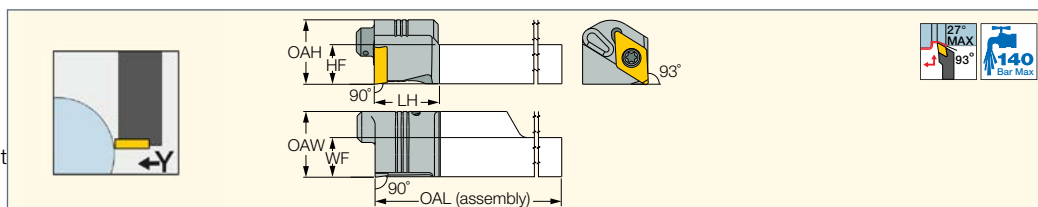
For inserts, see pages: DCET-WF (195) • DCGT-AF (213) • DCGT-AS (213) • DCGW/DCMW-2 (CBN) (230) • DCMT (CBN) (230) • DCMT (PCD) (222) • DCMT-14 (194) • DCMT-CERMET (192) • DCMT-F3P (190) • DCMT-M3M (191) • DCMT/DCGT (194) • DCMT/DCGT-PF (193) • DCMT/DCGT-SM (194)

## NEOSWISS

### ISOTURN

### NQCH-Y-SDJCR-S-JHP

Y-Axis Screw Lock Modular  
Heads with High-Pressure Coolant  
- 7° Clearance 55° Rhombic  
Inserts for SwissType Machines



Designation	WF	HF	LH	OAL	OAW	Insert		
NQCH12-Y-SDJCR-11S-JHP	12.15	12.2	20.0	120.00	20.00	DC.. 11T3	SR 16-236 P	T-15/5
NQCH16-Y-SDJCR-11S-JHP	16.15	16.2	20.0	120.00	20.00	DC.. 11T3	SR 16-236 P	T-15/5

For user guide, see pages 6-7, 78-84

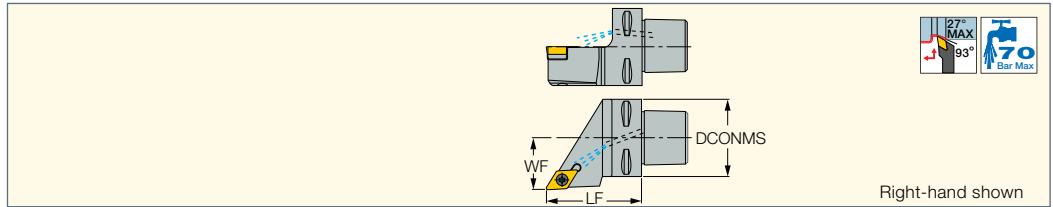
For inserts, see pages: DCET-WF (195) • DCGT-AF (213) • DCGT-AS (213) • DCGT-F1M-20P (192) • DCGW/DCMW-2 (CBN) (230) • DCMT (CBN) (230) • DCMT (PCD) (222) • DCMT-14 (194) • DCMT-CERMET (192) • DCMT-F3P (190) • DCMT-M3M (191) • DCMT/DCGT (194) • DCMT/DCGT-PF (193) • DCMT/DCGT-SM (194)

For holders, see pages: NQCH-JHP (61)

## ISOTURN CAMFIX

### C#-SDJCR/L

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



Designation	DCONMS	WF	LF	Insert	CDI <sup>(1)</sup>	CP <sup>(2)</sup>						
<b>C4 SDJCR-27050-11</b>	40.00	27.00	50.00	DC.. 11T3	1	70	TDC 3-1P	SR TC-3P	HW 4.0	SR 16-236 P	T-15/5	EZ 83
<b>C5 SDJCR-35060-11</b>	50.00	35.00	60.00	DC.. 11T3	1	70	TDC 3-1P	SR TC-3P	HW 4.0	SR 16-236 P	T-15/5	EZ 104

<sup>(1)</sup> 1 - Hole for data chip, 0 - Without hole for data chip

<sup>(2)</sup> Coolant pressure (Bar)

**For inserts, see pages:** DCMT-CERMET (192) • DCMT-F3P (190) • DCMT-M3M (191) • DCMT/DCGT-PF (193) • DCMT/DCGT-SM (194) • DCET-WF (195)

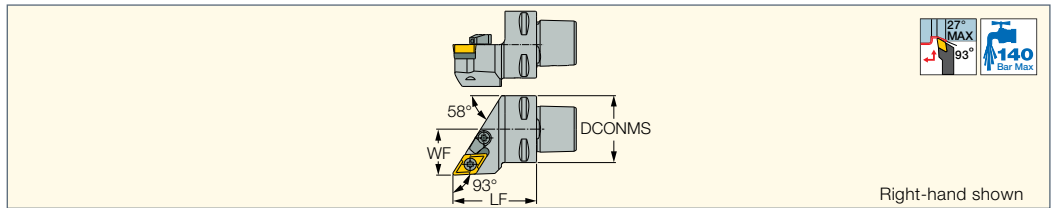
• DCGT-AS (213) • DCGT-AF (213) • DCMT-14 (194) • DCMT/DCGT (194) • DCGW/DCMW-2 (CBN) (230) • DCMT (CBN) (230) • DCMT (PCD) (222)

## ISOTURN JETCUT

### CAMFIX

### C#-SDJCR-JHP

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



Designation	DCONMS	WF	LF	Insert	CDI <sup>(1)</sup>	CP <sup>(2)</sup>
<b>C3 SDJCR-22040-11-JHP</b>	32.00	22.00	40.00	DC.. 11T3	0	140

• For user guide, see pages 78-84

<sup>(1)</sup> 1 - Hole for data chip, 0 - Without hole for data chip

<sup>(2)</sup> Coolant pressure (Bar)

**For inserts, see pages:** DCMT-CERMET (192) • DCMT-F3P (190) • DCMT-M3M (191) • DCMT/DCGT-PF (193) • DCMT/DCGT-SM (194) • DCET-WF (195)

• DCGT-AS (213) • DCGT-AF (213) • DCMT-14 (194) • DCMT/DCGT (194) • DCGW/DCMW-2 (CBN) (230) • DCMT (CBN) (230) • DCMT (PCD) (222)

### Spare Parts

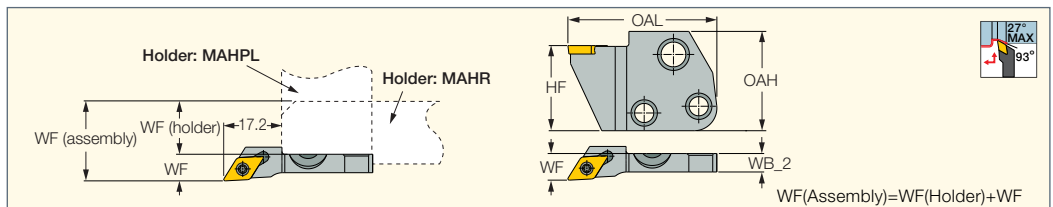
Designation								
<b>C3 SDJCR-22040-11-JHP</b>	TDC 3-1P	SR TC-3P	SR 16-236 P	T-15/5	CH-1.9D-JHP	WASHER 4.2X5.6X0.5	SR M4X4 DIN913 TL360	HW 4.0

## ISOTURN

### MODULARGRIP

### SDJCR-PAD

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



Designation	HF	OAH	OAL	WF	WB_2	Insert		
<b>SDJCR-07-PAD</b>	24.0	28.0	42.00	7.50	5.2	DCMT/DCGT 0702	SR 14-548	T-7/5

**For inserts, see pages:** • DCGT-F1M-20P (192) • DCMT-F3P (190) • DCMT-M3M (191) • DCMT/DCGT-PF (193) • DCMT/DCGT-SM (194)

• DCET-WF (195) • DCGT-AS (213) • DCMT/DCGT (194) • DCGW/DCMW-2 (CBN) (230)

**For holders, see pages:** C#-MAHPD-JHP (625) • MAHR/L-JHP-MC (280) • C#-MAHD-JHP (624) • MAHPR/L-JHP (281) • MAHR/L-JHP (279)

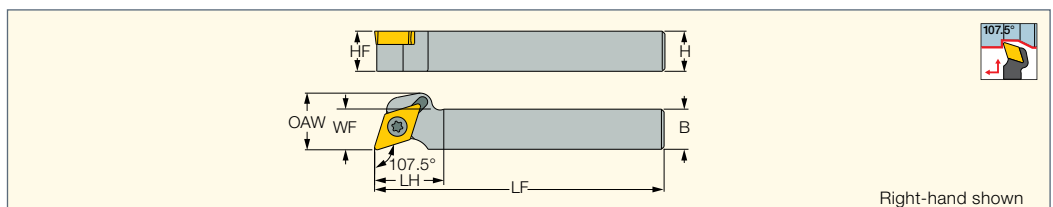
• MAHR/L (279) • MAHPR/L (280) • C#-MAHD (624) • C#-MAHPD (625) • C#-MAHDR-45 (623) • C#-MAHDOR (624) • HSK A63WH-MAHUR/L (632)

• HSK A63WH-MAHDR-45 (631) • HSK A63WH-MAHDOR (631) • IM-MAHD (633) • IM-MAHPD (633) • HMSN-New Britain (478) • DGHAL-DECO (478)

## ISOTURN

### SDHCR/L

Screw Lock Tools Carrying 55° Diamond Inserts with 7° Clearance Angle for Swiss-Type Machines



Designation	H	HF	B	LF	LH	WF	OAW	Insert		
<b>SDHCR/L 1010K-07S</b>	10.0	10.0	10.0	125.00	12.5	10.20	-	DC..0702	SR 14-548	T-7/5
<b>SDHCR/L 1212K-07S</b>	12.0	12.0	12.0	125.00	12.0	12.20	-	DC..0702	SR 14-548	T-7/5
<b>SDHCR/L 1616K-07S</b>	16.0	16.0	16.0	125.00	12.0	16.20	-	DC..0702	SR 14-548	T-7/5
<b>SDHCR/L 1212K-11S</b>	12.0	12.0	12.0	125.00	19.0	12.20	17.0	DC..11T3	SR 16-236	T-15/5
<b>SDHCR/L 1616K-11S</b>	16.0	16.0	16.0	125.00	20.0	16.20	-	DC..11T3	SR 16-236	T-15/5

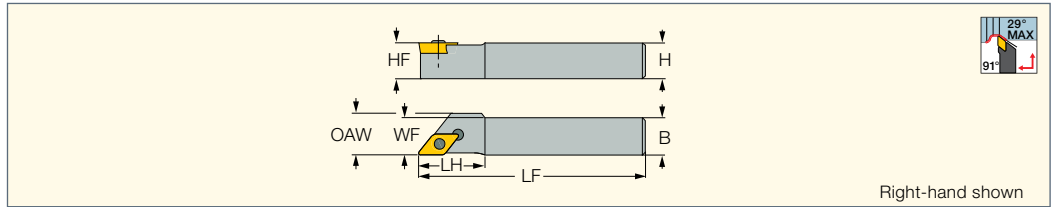
**For inserts, see pages:** DCGT-F1M-20P (192) • DCMT-CERMET (192) • DCMT-F3P (190) • DCMT-M3M (191) • DCMT/DCGT-PF (193) • DCMT/DCGT-SM (194)

• DCET-WF (195) • DCGT-AS (213) • DCGT-AF (213) • DCMT-14 (194) • DCMT/DCGT (194) • DCGW/DCMW-2 (CBN) (230) • DCMT (CBN) (230) • DCMT (PCD) (222)

**ISOTURN**

**SDACR/L**

Screw Lock Tools Carrying  
55° Diamond Inserts with  
7° Clearance Angle



Right-hand shown

Designation	H	HF	B	LF	LH	WF	OAW	Insert		
<b>SDACR/L 1010K-07S</b>	10.0	10.0	10.0	125.00	-	10.00	-	DC..0702	SR 14-548	T-7/5
<b>SDACR/L 1212K-07S</b>	12.0	12.0	12.0	125.00	-	12.00	-	DC..0702	SR 14-548	T-7/5
<b>SDACR/L 1212K-11S</b>	12.0	12.0	12.0	125.00	20.0	12.00	14.0	DC..11T3	SR 16-236 P	T-15/5
<b>SDACR/L 1616K-11S</b>	16.0	16.0	16.0	125.00	-	16.00	-	DC..11T3	SR 16-236 P	T-15/5

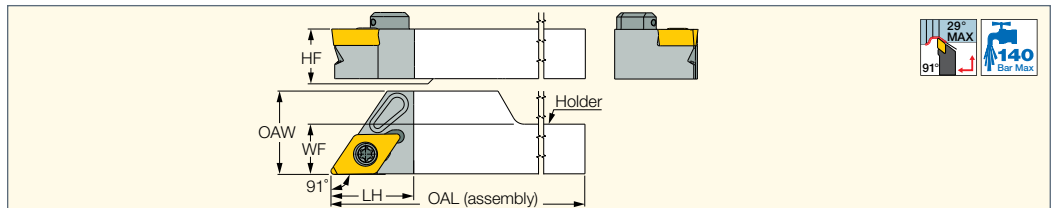
**For inserts, see pages:** DCGT-F1M-20P (192) • DCMT-CERMET (192) • DCMT-F3P (190) • DCMT-M3M (191) • DCMT/DCGT-PF (193)  
 • DCMT/DCGT-SM (194) • DCET-WF (195) • DCGT-AS (213) • DCGT-AF (213) • DCMT-14 (194) • DCMT/DCGT (194) • DCGW/DCMW-2 (CBN) (230)  
 • DCMT (CBN) (230) • DCMT (PCD) (222)

**NEOSWISS**  
INDEXABLE HEADS

**ISOTURN**

**NQCH-SDACR/L-S-JHP**

Screw Lock Modular Heads  
with High-Pressure Coolant - 7°  
Clearance 55° Rhombic Inserts  
for SwissType Machines

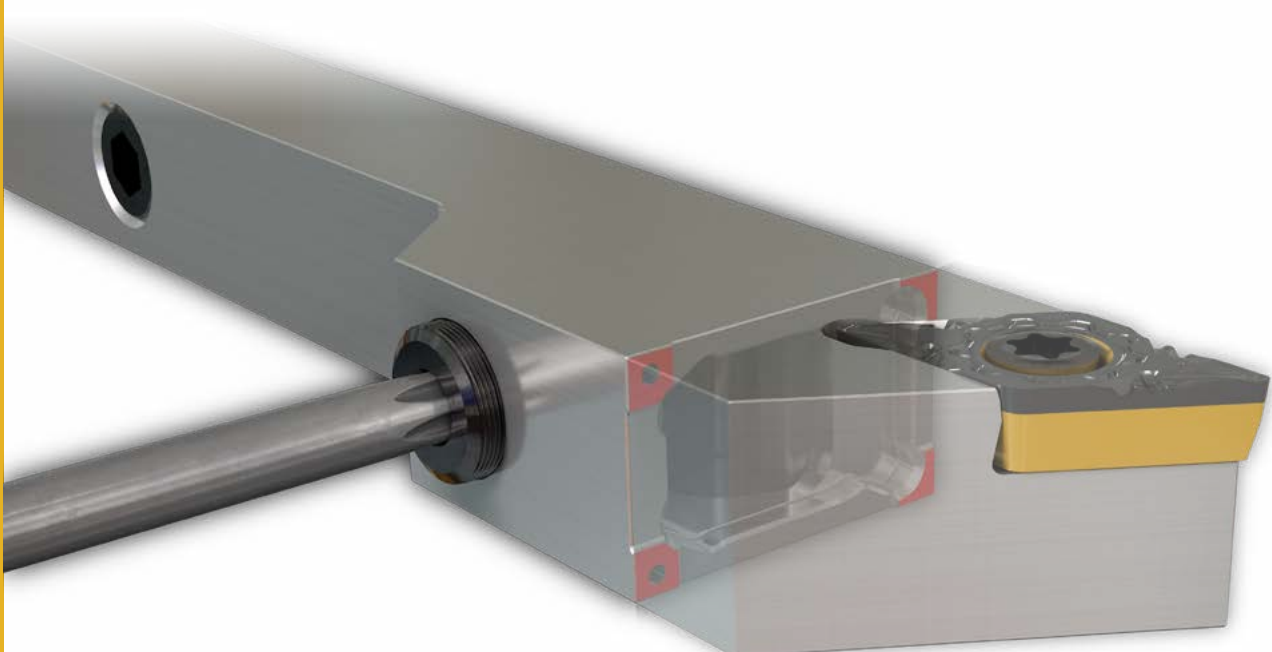


Designation	WF	HF	LH	OAL	OAW	Insert
<b>NQCH12-SDACR/L-11S-JHP</b>	12.15	12.0	20.0	120.00	20.15	DC.. 11T3
<b>NQCH16-SDACR/L-11S-JHP</b>	16.15	16.0	20.0	120.00	20.15	DC.. 11T3

• For user guide, see pages 6-7, 78-84  
**For inserts, see pages:** DCET-WF (195) • DCGT-AF (213) • DCGT-AS (213) • DCGT-F1M-20P (192) • DCGW/DCMW-2 (CBN) (230) • DCMT (CBN) (230)  
 • DCMT (PCD) (222) • DCMT-14 (194) • DCMT-CERMET (192) • DCMT-F3P (190) • DCMT-M3M (191) • DCMT/DCGT (194) • DCMT/DCGT-PF (193)  
 • DCMT/DCGT-SM (194)  
**For holders, see pages:** NQCH-JHP (61)

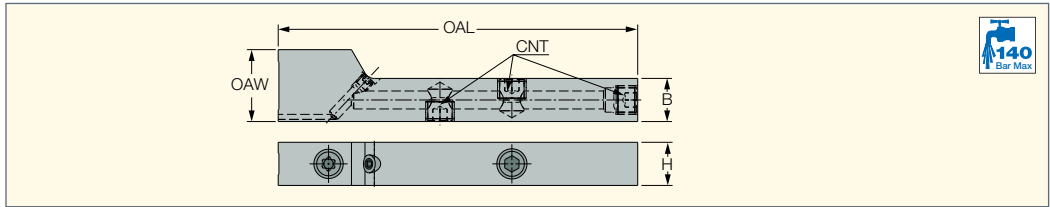
**Spare Parts**

Designation		
<b>NQCH-SDACR/L-S-JHP</b>	SR 16-236 P	T-15/5



**NQCH-JHP**

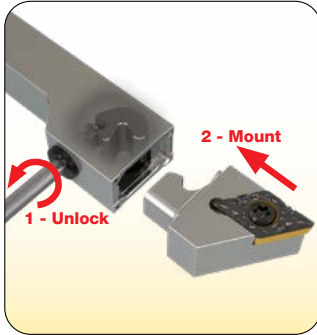
Square Shank with High-Pressure Coolant for NEOSWISS Modular Heads - Swiss Type Machines



Designation	B	H	OAL	OAW	CNT
NQCH-1212-JHP	12.0	12.0	100.00	20.00	UNF 5/16-24
NQCH-1616-JHP	16.0	16.0	100.00	20.00	UNF 5/16-24

For tools, see pages: NQCH-DGTR/L-D-SH-JHP (472) • NQCH-GHSR/L-JHP (374) • NQCH-PCHR/L-S-JHP (378) • NQCH-PCLR/L-S-JHP (53) • NQCH-SCACR/L-JHP (55) • NQCH-SCHR/L-BF-JHP (364) • NQCH-SDACR/L-S-JHP (60) • NQCH-SDJNR/L-S-JHP (28) • NQCH-SVACR/L-S-JHP (67) • NQCH-SWLNRL/L-S-JHP (8) • NQCH-Y-SCHR-BF-JHP (364) • NQCH-Y-SDJCR-S-JHP (58) • NQCH-Y-SVJCR-S-JHP (65)

**Clamping Operation Steps**



Supplied Accessories	Item No:	Image
SW6-T-SH	7003805	
BLD IP20/S7	7002553	
Recommended (Optional) Accessories	Item No:	Image
TSA 6 44.1-123.5 LBF.IN (TSA 6 5-14NM)	7007221	
BLD 6 T20IP	7007027	

**Attention: The clamping screw is not removable. To avoid undesired damage, do not apply excessive force when opening or clamping.**

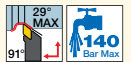
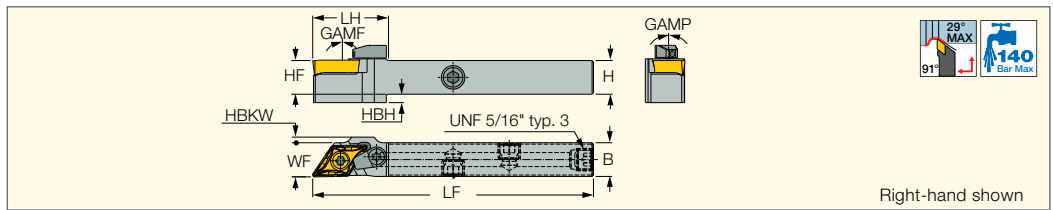
**Spare Parts**

Designation				
NQCH-JHP	SR 5/16UNF TL360	SW6-T-SH	BLD IP20/S7	SR M4X4 DIN913 TL360

**ISOTURN T-LOCK JETCUT**

**SDACR/L-13S-SL-JHP**

Tools with Channels for High-Pressure Coolant Carrying 55° Positive Rhombic Inserts for Swiss Automatic Machines



Designation	H	HF	B	LF	LH	WF	HBKW	HBH	GAMP	GAMF	Insert	CNT
SDACR/L 1212H-13S-SL-JHP	12.0	12.0	12.0	100.00	27.0	12.15	2.35	3.0	0.0	0.0	DCMT 13T5-SL	UNF 5/16 "
SDACR/L 1616K-13S-SL-JHP	16.0	16.0	16.0	125.00	27.0	16.15	-	-	0.0	0.0	DCMT 13T5-SL	UNF 5/16 "

• For user guide, see pages 78-84

For inserts, see pages: DCMT-F3P-SL (190) • DCMT-M3M-SL (191) • DCMT-PF-SL (193) • DCMT-SM-SL (193)

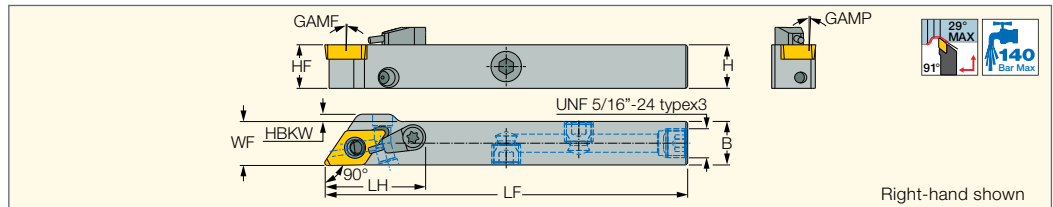
**Spare Parts**

Designation					
SDACR/L-13S-SL-JHP	CH-1.9D-JHP	SR 5/16UNF TL360	TORX PLUS IP15X45	SR M3 CONE	SR M4X0.7-L9.6 IP15

## ISOTURN JETCUT

### PDACR/L-JHP

Tools with Channels for High-Pressure Coolant Carrying  
55° Positive Rhombic Inserts for Swiss Automatic Machines



Designation	H	HF	B	LF	LH	WF	HBKW	GAMP	GAMF	Insert
PDACR/L 1010H-07S-JHP	10.0	10.0	10.0	100.00	20.4	10.20	6.10	0.0	0.0	DC..0702
PDACR/L 1212H-11S-JHP	12.0	12.0	12.0	100.00	28.0	12.20	2.00	0.0	0.0	DC..11T3
PDACR/L 1616K-11S-JHP	16.0	16.0	16.0	125.00	28.0	16.20	-	0.0	0.0	DC..11T3
PDACR/L 2020K-11S-JHP	20.0	20.0	20.0	125.00	28.0	20.20	-	0.0	0.0	DC..11T3

• For user guide, see pages 78-84

For inserts, see pages: DCGT-F1M-20P (192) • DCMT-CERMET (192) • DCMT-F3P (190) • DCMT-M3M (191) • DCMT/DCGT-PF (193) • DCMT/DCGT-SM (194) • DCET-WF (195) • DCGT-AS (213) • DCGT-AF (213) • DCMT-14 (194) • DCMT/DCGT (194) • DCGW/DCMW-2 (CBN) (230) • DCMT (CBN) (230) • DCMT (PCD) (222)

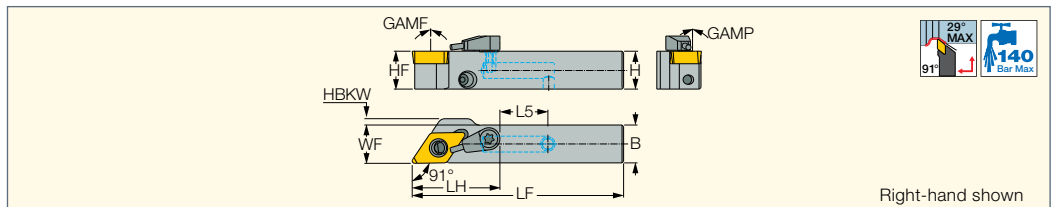
### Spare Parts

Designation						
PDACR/L 1010H-07S-JHP	SL LV-2	SL PI-2 PIN	SR 10400611	HW 2.0/5	SR 5/16XUNF-TL-S	S-CU-JHP-A SET
PDACR/L 1212H-11S-JHP	SL LV-3	SL PI-3	SR 10400150	HW 2.5/5	SR 5/16UNF TL360	S-CU-JHP-A SET
PDACR/L 1616K-11S-JHP	SL LV-3	SL PI-3	SR 10400150	HW 2.5/5	SR 5/16UNF TL360	S-CU-JHP-A SET
PDACR/L 2020K-11S-JHP	SL LV-3	SL PI-3	SR 10400150	HW 2.5/5	SR 5/16UNF TL360	S-CU-JHP-A SET

## ISOTURN JETCUT

### PDACR/L-JHP-MC

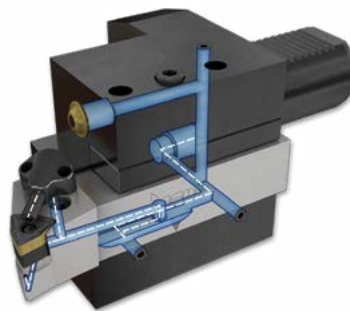
Tools with Channels for High-Pressure Coolant Carrying  
55° Positive Rhombic Inserts for Swiss Automatic Machines



Designation	H	HF	B	LF	LH	L5	WF	HBKW	GAMP	GAMF	Insert
PDACR/L 1212X-11S-JHP-MC	12.0	12.0	12.0	67.00	28.0	15.00	12.20	2.00	0.0	0.0	DC..11T3
PDACR/L 1616X-11S-JHP-MC	16.0	16.0	16.0	76.00	28.0	17.00	16.20	-	0.0	0.0	DC..11T3

• For user guide, see pages 78-84

For inserts, see pages: DCET-WF (195) • DCGT-AF (213) • DCGT-AS (213) • DCGW/DCMW-2 (CBN) (230) • DCMT (CBN) (230) • DCMT (PCD) (222) • DCMT-14 (194) • DCMT-CERMET (192) • DCMT-F3P (190) • DCMT-M3M (191) • DCMT/DCGT (194) • DCMT/DCGT-PF (193) • DCMT/DCGT-SM (194)



### Spare Parts

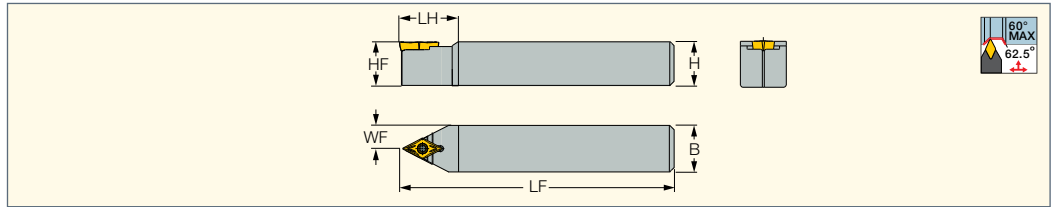
Designation						
PDACR/L 1212X-11S-JHP-MC	SL LV-3	SL PI-3	SR 10400150	HW 2.5/5	SR 5/16UNF TL360	S-CU-JHP-A SET
PDACR/L 1616X-11S-JHP-MC	SL LV-3	SL PI-3	SR 10400150	HW 2.5/5	SR 5/16UNF TL360	S-CU-JHP-A SET





## T-LOCK ISOTURN

### SDNCN-13-SL

Screw Lock Tools Carrying  
55° Diamond Inserts with 7°  
Clearance Angle for High Rigidity  
in Profiling Applications



Designation	H	HF	B	LF	LH	WF	Insert		
SDNCN 1616H-13-SL	16.0	16.0	16.0	100.00	25.0	8.00	DCMT 13T5-SL	SR M4X0.7-L9.6 IP15	TORX PLUS IP15X45
SDNCN 2020K-13-SL	20.0	20.0	20.0	125.00	25.0	10.00	DCMT 13T5-SL	SR M4X0.7-L9.6 IP15	TORX PLUS IP15X45
SDNCN 2525M-13-SL	25.0	25.0	25.0	150.00	25.0	12.50	DCMT 13T5-SL	SR M4X0.7-L9.6 IP15	TORX PLUS IP15X45

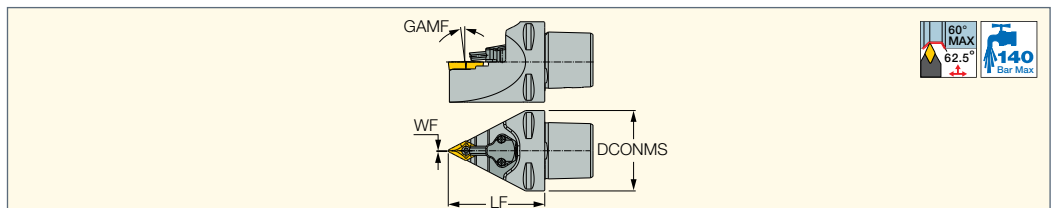
• Insert clamping torque 3 Nxm

For inserts, see pages: DCMT-F3P-SL (190) • DCMT-M3M-SL (191) • DCMT-PF-SL (193) • DCMT-SM-SL (193)

## T-LOCK JETCUT

### CAMFIX

C#-SDNCN-13-SL-JHP  
Screw Clamp Tools with CAMFIX  
Shanks and Channels for High  
Pressure Coolant Carrying  
Positive 55° Rhombic Inserts



Designation	DCONMS	WF	LF	GAMF	Insert	CDI <sup>(1)</sup>	CP <sup>(2)</sup>
C3 SDNCN-00045-13-SL-JHP	32.00	0.50	45.00	0.0	DCMT 13T5-SL	0	140
C4 SDNCN-00060-13-SL-JHP	40.00	0.50	60.00	0.0	DCMT 13T5-SL	1	140
C5 SDNCN-00060-13-SL-JHP	50.00	0.50	60.00	0.0	DCMT 13T5-SL	1	140







• For user guide, see pages 78-84

<sup>(1)</sup> 1 - Hole for data chip, 0 - Without hole for data chip

<sup>(2)</sup> Coolant pressure (Bar)

For inserts, see pages: DCMT-F3P-SL (190) • DCMT-M3M-SL (191) • DCMT-PF-SL (193) • DCMT-SM-SL (193)

## Spare Parts

Designation						
C3 SDNCN-00045-13-SL-JHP	CH-1.9D-JHP	WASHER 4.2X5.6X0.5		SR M4X4 DIN913 TL360	SR M4X0.7-L9.5 IP15	
C4 SDNCN-00060-13-SL-JHP	CU-D-JHP		TORX PLUS IP15X45		SR M4X0.7-L9.6 IP15	T-8/5
C5 SDNCN-00060-13-SL-JHP	CU-D-JHP		TORX PLUS IP15X45		SR M4X0.7-L9.6 IP15	T-8/5

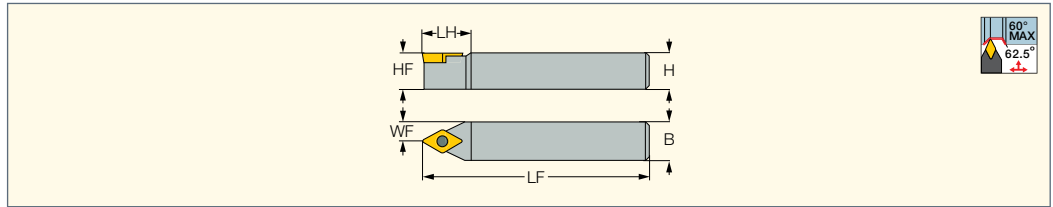




**ISOTURN**

**SDNCN**

Screw Lock Tools Carrying  
55° Diamond Inserts with  
7° Clearance Angle



Designation	H	HF	B	LF	LH	WF	Insert					
<b>SDNCN 0808F-07</b>	8.0	8.0	8.0	80.00	14.0	4.00	DC..0702	SR 14-548	T-7/5			
<b>SDNCN 1010F-07</b>	10.0	10.0	10.0	80.00	14.5	5.00	DC..0702	SR 14-548	T-7/5			
<b>SDNCN 1010K-11S <sup>(1)</sup></b>	10.0	10.0	10.0	120.00	20.0	5.00	DC..11T3	SR 16-236	T-15/5			
<b>SDNCN 1212F-11</b>	12.0	12.0	12.0	80.00	21.3	6.00	DC..11T3	SR 16-236 P	T-15/5			
<b>SDNCN 1616H-11</b>	16.0	16.0	16.0	100.00	21.0	8.00	DC..11T3	SR 16-236 P	T-15/5			
<b>SDNCN 2020K-11</b>	20.0	20.0	20.0	125.00	21.0	10.00	DC..11T3	SR 16-236 P	T-15/5			
<b>SDNCN 2525M-11</b>	25.0	25.0	25.0	150.00	30.0	12.50	DC..11T3	SR 16-236 P	T-15/5	TDC 3-1P	SR TC-3P	HW 4.0

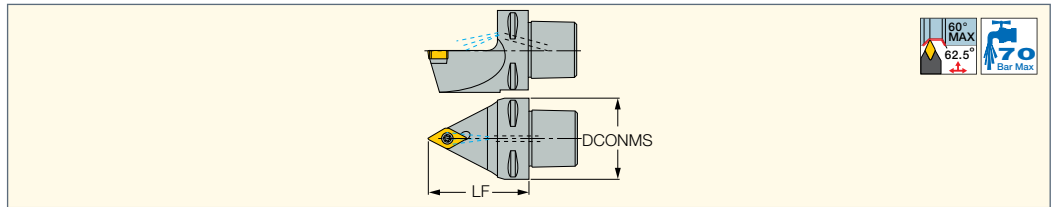
<sup>(1)</sup> For Swiss-type machines

**For inserts, see pages:** DCGT-F1M-20P (192) • DCMT-CERMET (192) • DCMT-F3P (190) • DCMT-M3M (191) • DCMT/DCGT-PF (193) • DCMT/DCGT-SM (194) • DCGT-AS (213) • DCGT-AF (213) • DCMT-14 (194) • DCMT/DCGT (194) • DCGW/DCMW-2 (CBN) (230) • DCMT (CBN) (230) • DCMT (PCD) (222)

**ISOTURN CAMFIX**

**C#-SDNCN**

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



Designation	DCONMS	LF	Insert	CDI <sup>(1)</sup>	CP <sup>(2)</sup>						
<b>C4 SDNCN-00050-11</b>	40.00	50.00	DC.. 11T3	1	70	TDC 3-1P	SR TC-3P	HW 4.0	SR 16-236 P	T-15/5	EZ 104

<sup>(1)</sup> 1 - Hole for data chip, 0 - Without hole for data chip

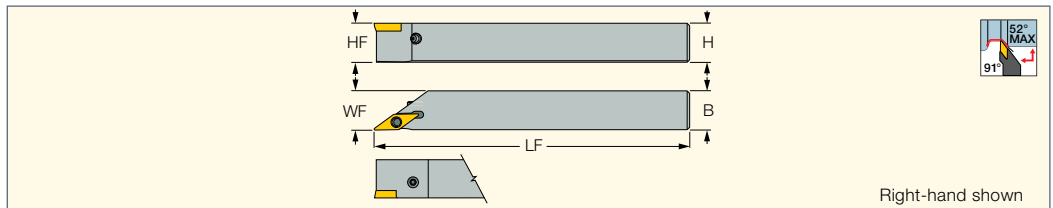
<sup>(2)</sup> Coolant pressure (Bar)

**For inserts, see pages:** DCMT-CERMET (192) • DCMT-F3P (190) • DCMT-M3M (191) • DCMT/DCGT-PF (193) • DCMT/DCGT-SM (194) • DCGT-AS (213) • DCGT-AF (213) • DCMT-14 (194) • DCMT/DCGT (194) • DCGW/DCMW-2 (CBN) (230) • DCMT (CBN) (230) • DCMT (PCD) (222)

**ISOTURN**

**PVACR/L-S**

Side Lever Lock Tools Carrying  
35° Positive Rhombic Inserts  
for Swiss Automatic Machines



Right-hand shown

Designation	H	HF	B	LF	WF	Insert				
<b>PVACR/L 0808M-11S</b>	8.0	8.0	8.0	150.00	8.00	VC..1103	SL LV-2	SL PI-2 PIN	SR 10400611	HW 2.0/5
<b>PVACR/L 1010M-11S</b>	10.0	10.0	10.0	150.00	10.20	VC..1103	SL LV-2	SL PI-2 PIN	SR 10400611	HW 2.0/5
<b>PVACR/L 1212M-11S</b>	12.0	12.0	12.0	150.00	12.20	VC..1103	SL LV-2	SL PI-2 PIN	SR 10400611	HW 2.0/5
<b>PVACR/L 1616M-11S</b>	16.0	16.0	16.0	150.00	16.20	VC..1103	SL LV-2	SL PI-2 PIN	SR 10400611	HW 2.0/5
<b>PVACR 2020K-11S</b>	20.0	20.0	20.0	125.00	20.20	VC..1103				

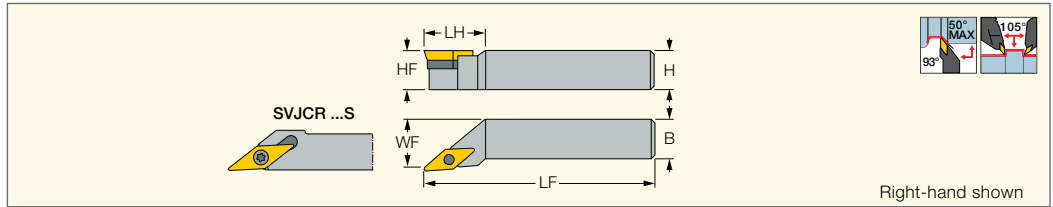
• The clamping screw may be transferred to the opposite side if needed

**For inserts, see pages:** VCGT-F1M-20P (196) • VCMT-F3P (195) • VCMT-F3M (195) • VCMT-SM (197) • VCET-WF (197) • VCGT-AS (211)

# ISOTURN

## SVJCR/L

93° Lead Angle Screw Lock  
Tools Carrying 35° Diamond  
Inserts with 7° Clearance Angle



Right-hand shown

Designation	H	HF	B	LF	LH	WF	Insert					
SVJCR/L 0808K-11S <sup>(1)</sup>	8.0	8.0	8.0	125.00	11.5	8.20	VC..1103	SR 14-560	T-8/5			
SVJCR/L 1010K-11S <sup>(1)</sup>	10.0	10.0	10.0	125.00	22.0	10.20	VC..1103	SR 14-560	T-8/5			
SVJCR/L 1212K-11S <sup>(1)</sup>	12.0	12.0	12.0	125.00	-	12.20	VC..1103	SR 14-560	T-8/5			
SVJCR/L 1616K-11	16.0	16.0	16.0	125.00	25.0	20.00	VC..1103	SR 14-560	T-8/5			
SVJCR/L 2020K-11	20.0	20.0	20.0	125.00	30.0	25.00	VC..1103	SR 14-560	T-8/5			
SVJCR/L 2525M-11	25.0	25.0	25.0	150.00	30.0	32.00	VC..1103	SR 14-560	T-8/5			
SVJCR/L 2020K-16	20.0	20.0	20.0	125.00	30.0	25.00	VC..1604	SR 16-236 P	T-15/5	TVC 3-1	SR TC-3	HW 2.5
SVJCR/L 2525M-16	25.0	25.0	25.0	150.00	30.0	32.00	VC..1604	SR 16-236 P	T-15/5	TVC 3-1	SR TC-3	HW 2.5

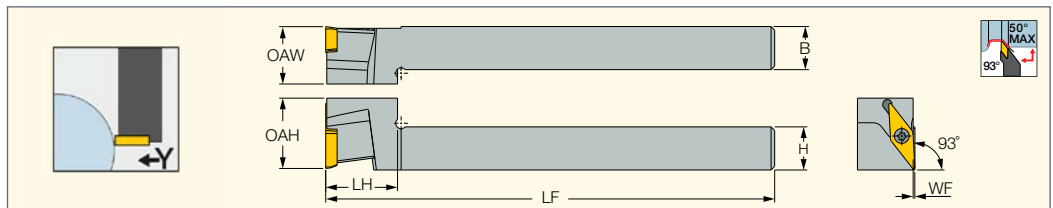
<sup>(1)</sup> For Swiss-type machines

For inserts, see pages: VCGT-F1M-20P (196) • VCMT-FPC-CERMET (196) • VCMT-F3P (195) • VCGW-2 (CBN) (232) • VCMT-F3M (195) • VCMT-M3M (196) • VCMT-SM (197) • VCET-WF (197) • VCGT-AS (211) • VCMT-14 (198) • VCMW (198) • VCMT (CBN) (222) • VCGT (PCD) (223) • VCGT-DW (PCD) (223)

# NEO<sup>AXIS</sup>SWISS

## Y-SVJCR

Y-Axis 93° Lead Angle Screw  
Lock Tools Carrying 35° Diamond  
Inserts with 7° Clearance Angle  
for Swiss-Type Machines



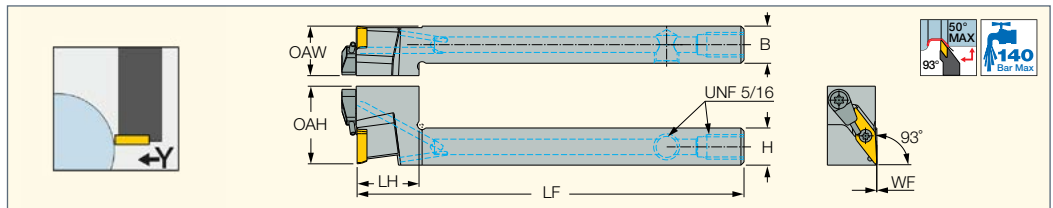
Designation	H	B	LF	LH	OAH	OAW	WF	Insert
Y-SVJCR 1212K-11S	12.0	12.0	125.00	21.0	20.00	16.00	0.00	VCMT 1103..
Y-SVJCR 1616K-11S	16.0	16.0	125.00	21.0	20.00	16.00	0.00	VCMT 1103..

For inserts, see pages: VCET-WF (197) • VCGT-AS (211) • VCGT-F1M-20P (196) • VCMT-F3M (195) • VCMT-F3P (195) • VCMT-SM (197)

# NEO<sup>AXIS</sup>SWISS

## Y-SVJCR-JHP

Y-Axis 93° Lead Angle Screw  
Lock Tools with High-Pressure  
Coolant Carrying 35° Diamond  
Inserts with 7° Clearance Angle



Designation	H	B	LF	LH	OAH	OAW	WF	Insert
Y-SVJCR 1212K-11S-JHP	12.0	12.0	125.00	21.0	25.50	16.00	0.00	VCMT 1103..
Y-SVJCR 1616K-11S-JHP	16.0	16.0	125.00	21.0	25.50	16.00	0.00	VCMT 1103..

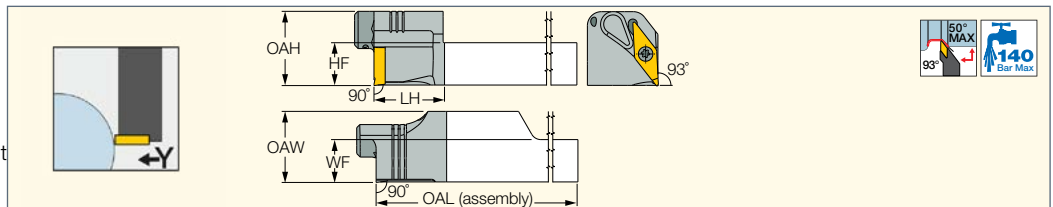
For inserts, see pages: VCET-WF (197) • VCGT-AS (211) • VCGT-F1M-20P (196) • VCMT-F3M (195) • VCMT-F3P (195) • VCMT-SM (197)

# NEOSWISS

## ISOTURN

## NQCH-Y-SVJCR-S-JHP

Y-Axis Screw Lock Modular  
Heads with High-Pressure Coolant  
- 7° Clearance 35° Rhombic  
Inserts for SwissType Machines



Designation	WF	HF	LH	OAL	OAW	Insert
NQCH12-Y-SVJCR-11S-JHP	12.15	12.2	20.0	120.00	20.15	VC.. 1103
NQCH16-Y-SVJCR-11S-JHP	16.15	16.2	20.0	120.00	20.15	VC.. 1103

• For user guide, see pages 6-7, 78-84

For inserts, see pages: VCET-WF (197) • VCGT (PCD) (223) • VCGT-AS (211) • VCGT-DW (PCD) (223) • VCGT-F1M-20P (196) • VCGW-2 (CBN) (232) • VCMT (CBN) (222) • VCMT-14 (198) • VCMT-F3M (195) • VCMT-F3P (195) • VCMT-FPC-CERMET (196) • VCMT-M3M (196) • VCMT-SM (197) • VCMW (198)

For holders, see pages: NQCH-JHP (61)

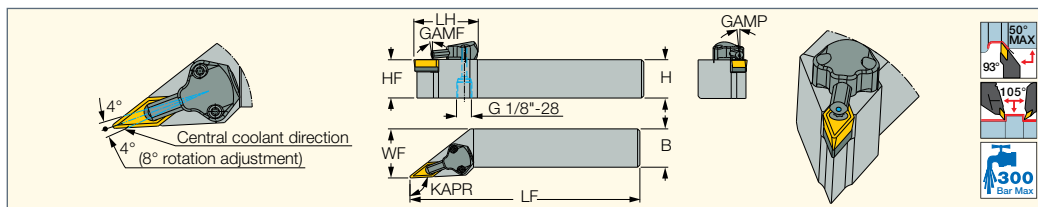
### Spare Parts

Designation		
NQCH-Y-SVJCR-S-JHP	SR 14-560	T-8/5

## ISOTURN JETCUT

### SVJCR/L-16-JHP

Screw Lock Tools with Channels for High-Pressure Coolant Carrying 35° Rhombic Inserts with 7° Clearance Angle



Designation	H	B	HF	LF	LH	WF	KAPR <sup>(1)</sup>	GAMP	GAMF	Insert
SVJCR/L 2525M-16-JHP	25.0	25.0	25.0	150.00	42.0	32.00	93.0	0.0	0.0	VCMT 1604

• For user guide, see pages 78-84

<sup>(1)</sup> Tool cutting edge angle

**For inserts, see pages:** VCMT-FPC-CERMET (196) • VCMT-F3P (195) • VCGW-2 (CBN) (232) • VCMT-F3M (195) • VCMT-M3M (196) • VCMT-SM (197) • VCGT-AS (211)

• VCMT-14 (198) • VCMW (198) • VCMT (CBN) (222) • VCGT (PCD) (223) • VCGT-DW (PCD) (223)

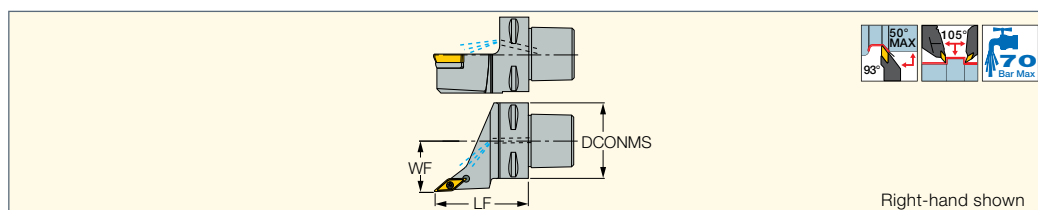
### Spare Parts

Designation							
SVJCR/L 2525M-16-JHP	TVC 3-1	SR TC-3	SR 16-236 P	CU-V-JHP	T-15/5	HW 2.5	T-8/5

## ISOTURN CAMFIX

### C#-SVJCR/L

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



Designation	DCONMS	WF	LF	Insert	CDI <sup>(1)</sup>	CP <sup>(2)</sup>													
C4 SVJCR/L-27050-11	40.00	27.00	50.00	VC.. 1103	1	70				SR 14-560/S M2.5X0.45	SR 16-236 P	SR 14-560/S M2.5X0.45	SR 16-236 P	T-8/5	T-15/5	EZ 83	EZ 83	EZ 104	EZ 104
C4 SVJCR/L-27050-16	40.00	27.00	50.00	VC.. 1604	1	70	TVC 3-1	SR TC-3	HW 2.5	SR 16-236 P	SR 16-236 P	SR 16-236 P	SR 16-236 P	T-8/5	T-15/5	EZ 83	EZ 83	EZ 104	EZ 104
C5 SVJCR-35060-11	50.00	35.00	60.00	VC.. 1103	1	70				SR 14-560/S M2.5X0.45	SR 16-236 P	SR 14-560/S M2.5X0.45	SR 16-236 P	T-8/5	T-15/5	EZ 104	EZ 104	EZ 104	EZ 104
C5 SVJCR/L-35060-16	50.00	35.00	60.00	VC.. 1604	1	70	TVC 3-1	SR TC-3	HW 2.5	SR 16-236 P	SR 16-236 P	SR 16-236 P	SR 16-236 P	T-8/5	T-15/5	EZ 104	EZ 104	EZ 104	EZ 104
C6 SVJCR/L-45065-16	63.00	45.00	65.00	VC.. 1604	1	70	TVC 3-1	SR TC-3	HW 2.5	SR 16-236 P	SR 16-236 P	SR 16-236 P	SR 16-236 P	T-8/5	T-15/5	EZ 104	EZ 104	EZ 104	EZ 125

<sup>(1)</sup> 1 - Hole for data chip, 0 - Without hole for data chip

<sup>(2)</sup> Coolant pressure (Bar)

**For inserts, see pages:** VCGT-F1M-20P (196) • VCMT-FPC-CERMET (196) • VCMT-F3P (195) • VCGW-2 (CBN) (232) • VCMT-F3M (195) • VCMT-M3M (196)

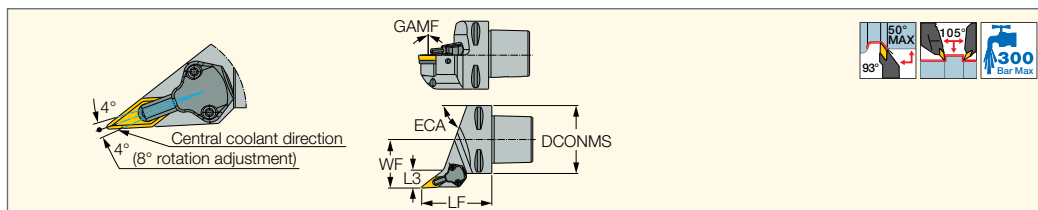
• VCMT-SM (197) • VCET-WF (197) • VCGT-AS (211) • VCMT-14 (198) • VCMW (198) • VCMT (CBN) (222) • VCGT (PCD) (223) • VCGT-DW (PCD) (223)

## ISOTURN JETCUT

### CAMFIX

### C#-SVJCR/L-JHP

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



Designation	DCONMS	WF	LF	GAMF	ECA	L3	Insert	CDI <sup>(1)</sup>	CP <sup>(2)</sup>
C3 SVJCR-22040-11-JHP	32.00	22.00	40.00	0.0	55.0	-	VCMT 1103	0	300
C4 SVJCR/L-27055-16-JHP	40.00	27.00	55.00	0.0	55.0	-	VCMT 1604	1	300
C5 SVJCR/L-35060-16-JHP	50.00	35.00	60.00	0.0	55.0	-	VCMT 1604	1	300
C6 SVJCR-45065-16-JHP	63.00	45.00	65.00	0.0	70.0	16.80	VCMT 1604	1	300

• For user guide, see pages 78-84

<sup>(1)</sup> 1 - Hole for data chip, 0 - Without hole for data chip

<sup>(2)</sup> Coolant pressure (Bar)

**For inserts, see pages:** VCGT-F1M-20P (196) • VCMT-FPC-CERMET (196) • VCMT-F3P (195) • VCGW-2 (CBN) (232) • VCMT-F3M (195) • VCMT-M3M (196)

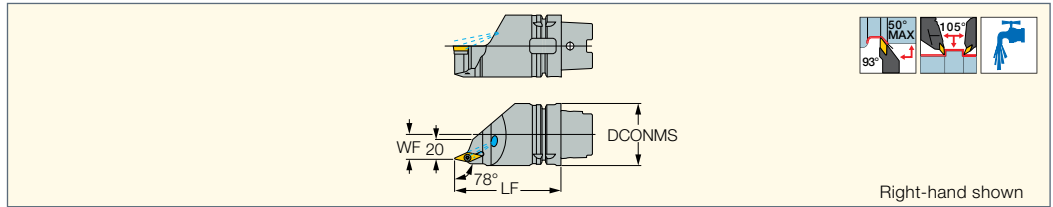
• VCMT-SM (197) • VCET-WF (197) • VCGT-AS (211) • VCMT-14 (198) • VCMW (198) • VCMT (CBN) (222) • VCGT (PCD) (223) • VCGT-DW (PCD) (223)

### Spare Parts

Designation								
C3 SVJCR-22040-11-JHP				SR 14-560	CH-1.9D-JHP		T-8/5	
C4 SVJCR/L-27055-16-JHP	TVC 3-1	SR TC-3	T-15/5	SR 16-236 P	CU-V-JHP		T-8/5	HW 2.5
C5 SVJCR/L-35060-16-JHP	TVC 3-1	SR TC-3	T-15/5	SR 16-236 P	CU-V-JHP	OR 6.4X0.9N	T-8/5	HW 2.5
C6 SVJCR-45065-16-JHP	TVC 3-1	SR TC-3	T-15/5	SR 16-236 P	CU-V-JHP		T-8/5	HW 2.5

**ISOTURN HSK**

**HSK A63WH-SVJCR/L**  
 Tools with HSK Exchangeable  
 Tapered Shanks Carrying  
 Positive 35° Inserts for 15°  
 Mounting on Turn-Mill Machines

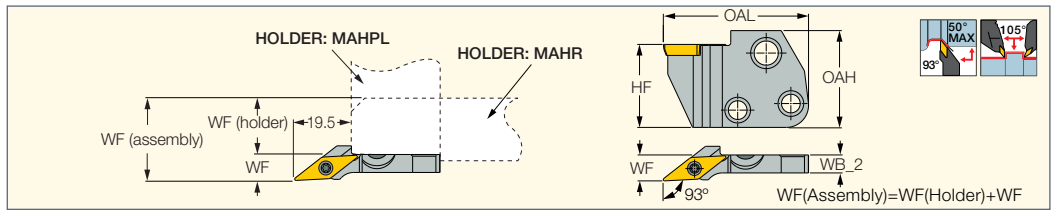


Designation	DCONMS	LF	WF	Insert	CDI <sup>(1)</sup>						
<b>HSK A63WH-SVJCR/L-J16</b>	63.00	110.00	25.00	VC.. 1604	0	TVC 3-1	SR TC-3	HW 2.5	SR 16-236 P	T-15/5	EZ 104

- Complies with ICTM standard (ISO 12164-3).
  - A cooling tube must be used with all coolant through HSK spindles (should be ordered separately).
  - For shank dimensions, see page 735
- <sup>(1)</sup> 1 - Hole for data chip, 0 - Without hole for data chip
- For inserts, see pages:** VCMT-FPC-CERMET (196) • VCMT-F3P (195) • VCGW-2 (CBN) (232) • VCMT-F3M (195) • VCMT-M3M (196) • VCMT-SM (197)  
 • VCGT-AS (211) • VCMT-14 (198) • VCMW (198) • VCMT (CBN) (222) • VCGT (PCD) (223) • VCGT-DW (PCD) (223)

**ISOTURN MODULARGRIP**

**SVJCR-PAD**  
 93° Lead Angle Screw Lock  
 Adapters Carrying 35° Diamond  
 Inserts with 7° Clearance Angle

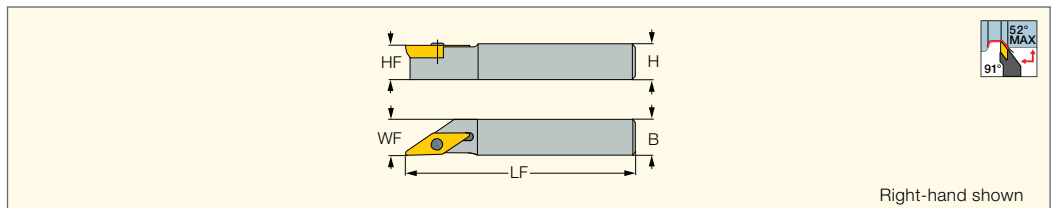


Designation	HF	OAH	OAL	WF	WB_2	Insert		
<b>SVJCR-11-PAD</b>	24.0	28.0	42.00	7.50	5.2	VC.. 1103	SR 14-560	T-8/5

- For inserts, see pages:** VCGT-F1M-20P (196) • VCMT-F3P (195) • VCMT-F3M (195) • VCMT-SM (197) • VCET-WF (197) • VCGT-AS (211)
- For holders, see pages:** C#-MAHPD-JHP (625) • MAHR/L-JHP-MC (280) • C#-MAHD-JHP (624) • MAHPR/L-JHP (281) • MAHR/L-JHP (279)  
 • MAHR/L (279) • MAHPR/L (280) • C#-MAHD (624) • C#-MAHPD (625) • C#-MAHDR-45 (623) • C#-MAHDOR (624) • HSK A63WH-MAHUR/L (632)  
 • HSK A63WH-MAHDR-45 (631) • HSK A63WH-MAHDOR (631) • IM-MAHD (633) • IM-MAHPD (633) • HMSN-New Britain (478) • DGHAL-DECO (478)

**ISOTURN**

**SVACR/L**  
 91° Lead Angle Screw Lock  
 Tools Carrying 35° Diamond  
 Inserts with 7° Clearance Angle

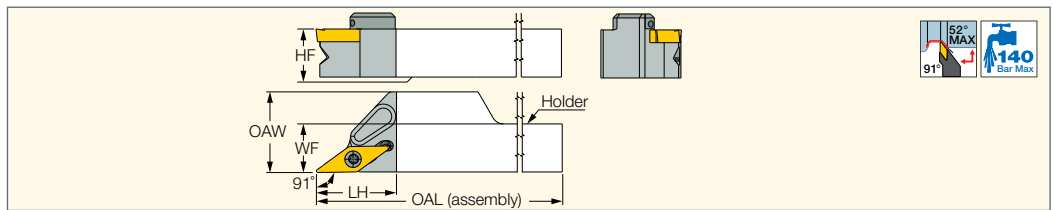


Designation	H	B	HF	LF	WF	Insert		
<b>SVACR/L 1212K-11S</b>	12.0	12.0	12.0	125.00	12.00	VC..11..	SR 14-560	T-8/5
<b>SVACR 1616K-11S</b>	16.0	16.0	16.0	125.00	16.00	VC..11..	SR 14-560	T-8/5
<b>SVACR/L 1212K-13S</b>	12.0	12.0	12.0	125.00	12.00	VC..13..	SR 14-513	T-8/5
<b>SVACR/L 1616K-13S</b>	16.0	16.0	16.0	125.00	16.00	VC..13..	SR 14-513	T-8/5
<b>SVACR/L 2020K-13S</b>	20.0	20.0	20.0	125.00	20.00	VC..13..	SR 14-513	T-8/5

- For inserts, see pages:** VCGT-F1M-20P (196) • VCMT-F3P (195) • VCMT-F3M (195) • VCGT-MD/PF (197) • VCMT-SM (197) • VCET-WF (197) • VCGT-AS (211)

**NEOSWISS INDEXABLE HEADS ISOTURN**

**NQCH-SVACR/L-S-JHP**  
 Screw Lock Modular Heads with  
 High-Pressure Coolant Carrying  
 7° Clearance 35° Rhombic  
 Inserts for SwissType Machines



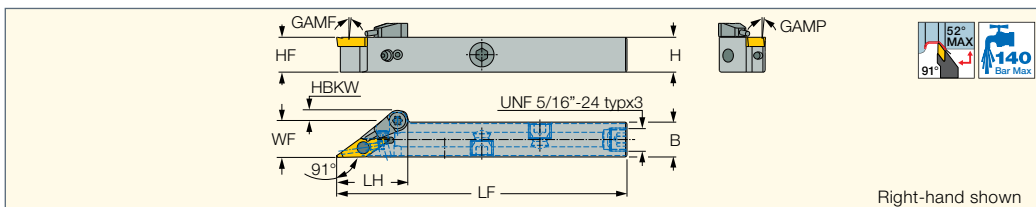
Designation	WF	HF	LH	OAL	OAW	Insert		
<b>NQCH12-SVACR/L-11S-JHP</b>	12.15	12.0	20.0	120.00	20.15	VC.. 1103	SR 14-560	T-8/5
<b>NQCH16-SVACR/L-11S-JHP</b>	16.15	16.0	20.0	120.00	20.15	VC.. 1103	SR 14-560	T-8/5

- For user guide, see pages 6-7, 78-84
- For inserts, see pages:** VCET-WF (197) • VCGT (PCD) (223) • VCGT-AS (211) • VCGT-DW (PCD) (223) • VCGT-F1M-20P (196) • VCGT-MD/PF (197)  
 • VCGW-2 (CBN) (232) • VCMT (CBN) (222) • VCMT-14 (198) • VCMT-F3M (195) • VCMT-F3P (195) • VCMT-FPC-CERMET (196) • VCMT-M3M (196) • VCMT-SM (197)  
 • VCMW (198)
- For holders, see pages:** NQCH-JHP (61)

## ISOTURN JETCUT

### PVACR/L-JHP

Tools with Channels for High-Pressure Coolant Carrying 35° Positive Rhombic Inserts for Swiss Automatic Machines



Right-hand shown

Designation	H	HF	B	LF	LH	WF	HBKW	GAMP	GAMF	Insert
PVACR 1010H-11S-JHP	10.0	10.0	10.0	100.00	20.0	10.20	5.80	0.0	0.0	VC..1103
PVACR/L 1212H-11S-JHP	12.0	12.0	12.0	100.00	20.0	12.20	3.80	0.0	0.0	VC..1103
PVACR/L 1616K-11S-JHP	16.0	16.0	16.0	125.00	20.0	16.20	-	0.0	0.0	VC..1103
PVACR/L 2020K-11S-JHP	20.0	20.0	20.0	125.00	25.0	20.20	-	0.0	0.0	VC..1103

• For user guide, see pages 78-84

For inserts, see pages: VCGT-F1M-20P (196) • VCMT-F3P (195) • VCMT-F3M (195) • VCMT-SM (197) • VCET-WF (197) • VCGT-AS (211)

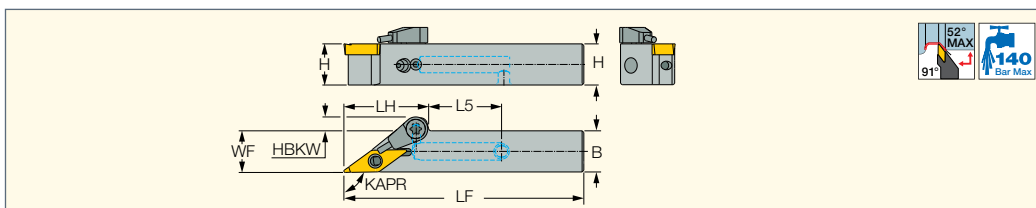
### Spare Parts

Designation						
PVACR/L 1212H-11S-JHP	SL LV-2	SL PI-2 PIN	SR 10400611	HW 2.0/5	SR 5/16UNF TL360	S-CU-JHP-A SET
PVACR/L 1616K-11S-JHP	SL LV-2	SL PI-2 PIN	SR 10400611	HW 2.0/5	SR 5/16UNF TL360	S-CU-JHP-A SET
PVACR 2020K-11S-JHP	SL LV-2	SL PI-2 PIN	SR 10400611	HW 2.5/5	SR 5/16UNF TL360	S-CU-JHP-A SET

## ISOTURN JETCUT

### PVACR/L-JHP-MC

Tools with Channels for High-Pressure Coolant Carrying 35° Positive Rhombic Inserts for Swiss Automatic Machines

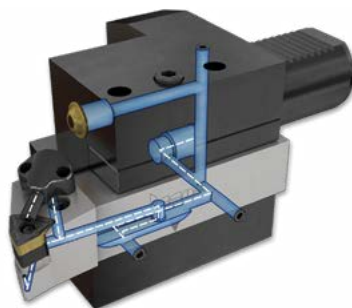


Designation	H	B	LF	LH	L5	WF	HBKW	Insert	KAPR <sup>(1)</sup>
PVACR/L 1212X-11S-JHP-MC	12.0	12.0	70.00	25.0	21.00	12.20	3.80	VC..1103	91.0
PVACR/L 1616X-11S-JHP-MC	16.0	16.0	73.00	26.0	16.00	16.20	-	VC..1103	91.0

• For user guide, see pages 78-84

<sup>(1)</sup> Tool cutting edge angle

For inserts, see pages: VCET-WF (197) • VCGT-AS (211) • VCGT-F1M-20P (196) • VCMT-F3M (195) • VCMT-F3P (195) • VCMT-SM (197)



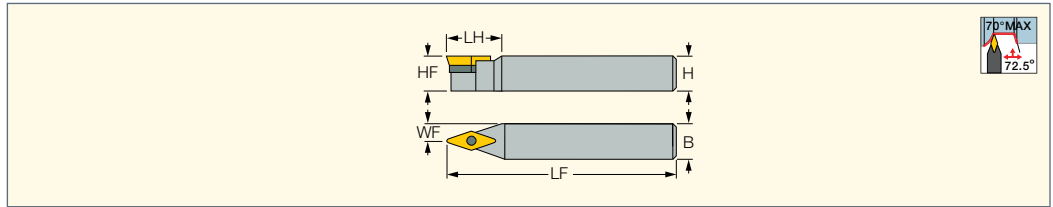
### Spare Parts

Designation						
PVACR/L-JHP-MC	SL LV-2	SL PI-2 PIN	SR 10400611	HW 2.0/5	SR 5/16UNF TL360	S-CU-JHP-A SET

**ISOTURN**

**SVVCN**

72.5° Lead Angle Screw Lock  
Tools Carrying 35° Diamond  
Inserts with 7° Clearance Angle



Designation	H	HF	B	LF	LH	WF	Insert					
SVVCN 0808K-11S <sup>(1)</sup>	8.0	8.0	8.0	125.00	-	4.30	VC..1103	SR 14-560		T-8/5		
SVVCN 1010K-11S <sup>(1)</sup>	10.0	10.0	10.0	125.00	-	5.30	VC..1103	SR 14-560		T-8/5		
SVVCN 1212K-11S <sup>(1)</sup>	12.0	12.0	12.0	125.00	-	6.30	VC..1103	SR 14-560		T-8/5		
SVVCN 1616K-11S <sup>(1)</sup>	16.0	16.0	16.0	125.00	-	8.30	VC..1103	SR 14-560		T-8/5		
SVVCN 2020K-16	20.0	20.0	20.0	125.00	34.0	10.00	VC..1604	SR 16-236 P	T-15/5	TVC 3-1	SR TC-3	HW 2.5
SVVCN 2525M-16	25.0	25.0	25.0	150.00	38.1	12.50	VC..1604	SR 16-236 P	T-15/5	TVC 3-1	SR TC-3	HW 2.5

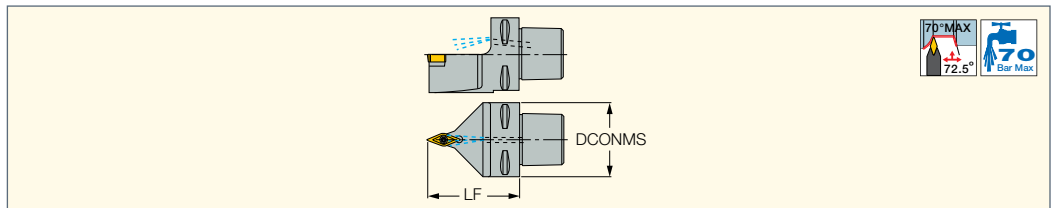
<sup>(1)</sup> For Swiss-type machines

For inserts, see pages: VCGT-F1M-20P (196) • VCMT-FPC-CERMET (196) • VCMT-F3P (195) • VCGW-2 (CBN) (232) • VCMT-F3M (195) • VCMT-M3M (196) • VCMT-SM (197) • VCGT-AS (211) • VCMT-14 (198) • VCMW (198) • VCMT (CBN) (222) • VCGT (PCD) (223) • VCGT-DW (PCD) (223)

**ISOTURN CAMFIX**

**C#-SVVCN**

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



Designation	DCONMS	LF	Insert	CDI <sup>(1)</sup>	CP <sup>(2)</sup>						
C4 SVVCN-00050-16	40.00	40.00	VC..1604	1	70	TVC 3-1	SR TC-3	HW 2.5	SR 16-236 P	T-15/5	EZ 83
C5 SVVCN-00060-16	50.00	50.00	VC..1604	1	70	TVC 3-1	SR TC-3	HW 2.5	SR 16-236 P	T-15/5	EZ 125

<sup>(1)</sup> 1 - Hole for data chip, 0 - Without hole for data chip

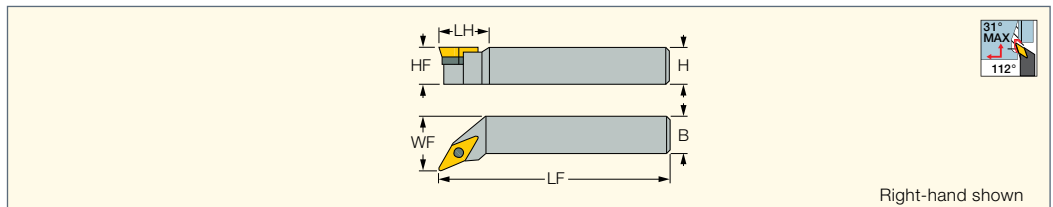
<sup>(2)</sup> Coolant pressure (Bar)

For inserts, see pages: VCMT-FPC-CERMET (196) • VCMT-F3P (195) • VCGW-2 (CBN) (232) • VCMT-F3M (195) • VCMT-M3M (196) • VCMT-SM (197) • VCGT-AS (211) • VCMT-14 (198) • VCMW (198) • VCMT (CBN) (222) • VCGT (PCD) (223) • VCGT-DW (PCD) (223)

**ISOTURN**

**SVXCR/L**

112° Lead Angle Screw Lock  
Tools Carrying 35° Diamond  
Inserts with 7° Clearance Angle



Right-hand shown

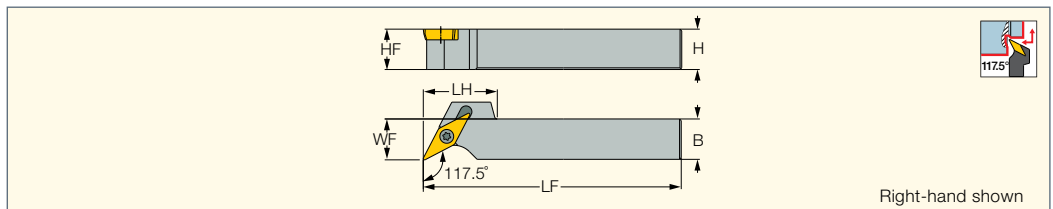
Designation	H	HF	B	LF	LH	WF	Insert					
SVXCR/L 2020K-16	20.0	20.0	20.0	125.00	25.0	25.00	VC..1604	TVC 3-1	SR TC-3	HW 2.5	SR 16-236 P	T-15/5
SVXCR/L 2525M-16	25.0	25.0	25.0	150.00	30.0	32.00	VC..1604	TVC 3-1	SR TC-3	HW 2.5	SR 16-236 P	T-15/5

For inserts, see pages: VCMT-FPC-CERMET (196) • VCMT-F3P (195) • VCGW-2 (CBN) (232) • VCMT-F3M (195) • VCMT-M3M (196) • VCMT-SM (197) • VCGT-AS (211) • VCMT-14 (198) • VCMW (198) • VCMT (CBN) (222) • VCGT (PCD) (223) • VCGT-DW (PCD) (223)

**ISOTURN**

**SVPCR/L**

117° Lead Angle Screw Lock  
Tools Carrying 35° Diamond  
Inserts with 7° Clearance Angle



Right-hand shown

Designation	H	HF	B	LF	LH	WF	Insert		
SVPCR/L 1212K-11S	12.0	12.0	12.0	125.00	19.0	12.20	VC..1103	SR 14-560	T-8/5
SVPCR/L 1616K-11S	16.0	16.0	16.0	125.00	-	16.20	VC..1103	SR 14-560	T-8/5

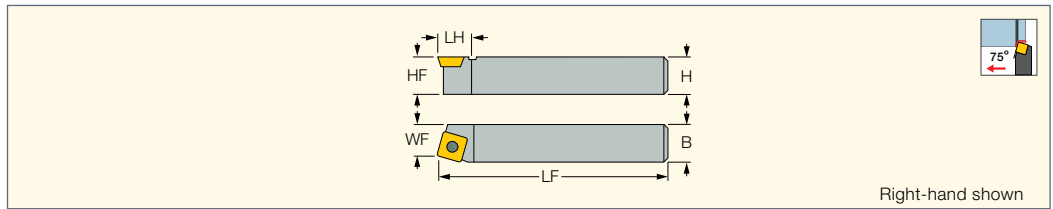
For inserts, see pages: VCGT-F1M-20P (196) • VCMT-F3P (195) • VCMT-F3M (195) • VCMT-SM (197) • VCGT-AS (211)



**ISOTURN**

**SSBCR/L**

75° Lead Angle Screw Lock  
Tools Carrying Square Inserts  
with 7° Clearance Angle



Right-hand shown

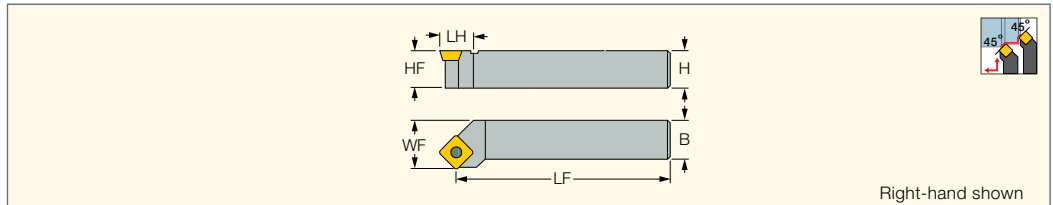
Designation	H	HF	B	LF	LH	WF	Insert					
<b>SSBCR/L 1616H-09</b>	16.0	16.0	16.0	100.00	15.0	13.00	SC..09T3	SR 16-236	T-15/5			
<b>SSBCR/L 2020K-12</b>	20.0	20.0	20.0	125.00	19.0	17.00	SC..1204	SR 16-212	T-20/5			
<b>SSBCR/L 2525M-12</b>	25.0	25.0	25.0	150.00	19.0	22.00	SC..1204	SR 16-212	T-20/5	TSC 4-2	SR TC-4	HW 3.0

For inserts, see pages: SCMT-F3P (198) • SCMT-M3P (199) • SCMT-F3M (199) • SCMT-M3M (199) • SCMT-SM (200) • SCGT-AS (211)  
• SCMT-14 (200) • SCMT-19 (200)

**ISOTURN**

**SSSCR/L**

45° Lead Angle Screw Lock  
Tools Carrying Square Inserts  
with 7° Clearance Angle



Right-hand shown

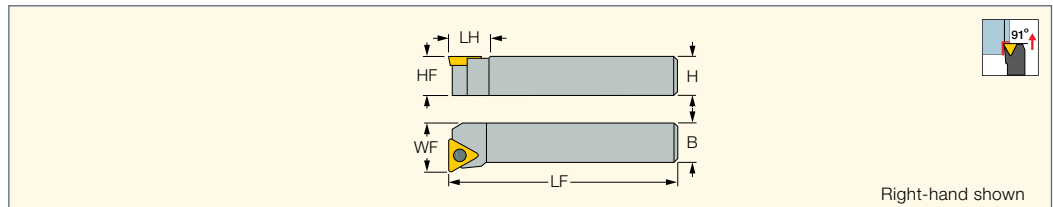
Designation	H	HF	B	LF	LH	WF	Insert					
<b>SSSCR/L 1212F-09</b>	12.0	12.0	12.0	80.00	18.0	16.00	SC..09T3	SR 16-236	T-15/5			
<b>SSSCR/L 1616H-09</b>	16.0	16.0	16.0	100.00	18.0	20.00	SC..09T3	SR 16-236	T-15/5			
<b>SSSCR/L 2020K-12</b>	20.0	20.0	20.0	125.00	22.0	25.00	SC..1204	SR 16-212	T-20/5			
<b>SSSCR/L 2525M-12</b>	25.0	25.0	25.0	150.00	25.0	32.00	SC..1204	SR 16-212	T-20/5	TSC 4-2	SR TC-4	HW 3.0

For inserts, see pages: SCMT-F3P (198) • SCMT-M3P (199) • SCMT-F3M (199) • SCMT-M3M (199) • SCMT-SM (200) • SCGT-AS (211)  
• SCMT-14 (200) • SCMT-19 (200)

**ISOTURN**

**STFCR/L**

Screw Lock Tools Carrying  
Triangular Inserts with 7°  
Clearance Angle for Face Turning



Right-hand shown

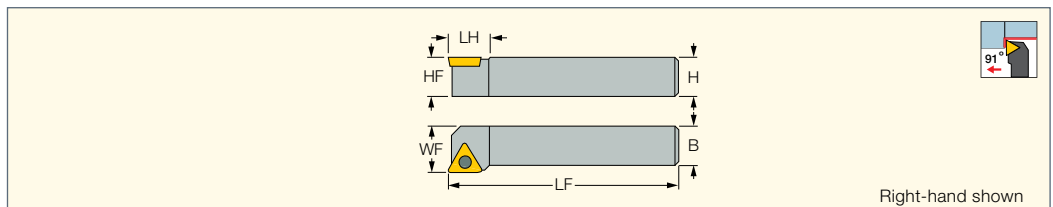
Designation	H	HF	B	LF	LH	WF	Insert					
<b>STFCR/L 1212F-11</b>	12.0	12.0	12.0	80.00	13.0	16.00	TC..1102	SR 14-548	T-7/5			
<b>STFCR/L 2020K-16</b>	20.0	20.0	20.0	125.00	18.0	25.00	TC..16T3	SR 16-236	T-15/5			
<b>STFCR/L 2525M-16</b>	25.0	25.0	25.0	150.00	20.0	32.00	TC..16T3	SR 16-236	T-15/5	TTC 3-2	SR TC-3	HW 2.5

For inserts, see pages: TCMT-F3P (201) • TCMT-M3M (201) • TCMT-PF (201) • TCMT-SM (202) • TCGT-AS (211) • TCMT (CBN) (234)  
• TCMT (PCD) (223)

**ISOTURN**

**STGCR/L**

91° Lead Angle Screw Lock  
Tools Carrying Triangular Inserts  
with 7° Clearance Angle



Right-hand shown

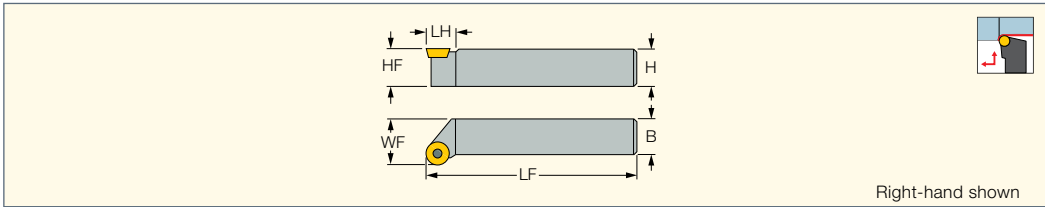
Designation	H	HF	B	LF	LH	WF	Insert					
<b>STGCR/L 1212F-11</b>	12.0	12.0	12.0	80.00	13.0	16.00	TC..1102					
<b>STGCR/L 1616H-11</b>	16.0	16.0	16.0	100.00	13.0	20.00	TC..1102					
<b>STGCR/L 2020K-16</b>	20.0	20.0	20.0	125.00	18.0	25.00	TC..16T3					
<b>STGCR/L 2525M-16</b>	25.0	25.0	25.0	150.00	18.0	32.00	TC..16T3	SR 16-236	T-15/5	TTC 3-2	SR TC-3	HW 2.5

For inserts, see pages: TCMT-F3P (201) • TCMT-M3M (201) • TCMT-PF (201) • TCMT-SM (202) • TCGT-AS (211) • TCMT (CBN) (234) • TCMT (PCD) (223)

# ISOTURN

## SRGCR/L

Screw Lock Tools Carrying Round Inserts with 7° Clearance Angle



Designation	H	HF	B	LF	LH	WF	Insert
SRGCR/L 1616H-08	16.0	16.0	16.0	100.00	11.0	20.00	RCMT 0803MO
SRGCR/L 2020K-10	20.0	20.0	20.0	125.00	14.0	25.00	RCMT 10T3MO
SRGCR 2525M-10	25.0	25.0	25.0	150.00	18.0	32.00	RCMT 10T3MO
SRGCR/L 2525M-12	25.0	25.0	25.0	150.00	18.0	32.00	RCMT 1204MO
SRGCR/L 2525M-16	25.0	25.0	25.0	150.00	20.0	32.00	RCMT 1606MO
SRGCR/L 3232P-20	32.0	32.0	32.0	170.00	25.0	40.00	RCMT 2006MO

For inserts, see pages: RCGT-AS (213) • RCMT-14 (202) • RCMT-SR (202)

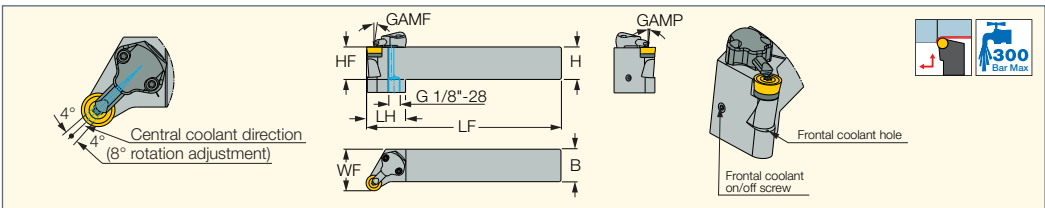
### Spare Parts

Designation							
SRGCR/L 1616H-08	SR 14-513			T-8/5			
SRGCR/L 2020K-10				T-15/5			
SRGCR 2525M-10				T-15/5			
SRGCR/L 2525M-12	SR 16-212	TRC 3-0	SR TC-3	T-20/5	HW 3.0		
SRGCR/L 2525M-16	SR 16-212	TRC 5-0	SR TC-4	T-20/5	HW 3.0		
SRGCR/L 3232P-20	SR 14-519	TRC 6-0	SR TC-6		HW 4.0	BLD T20/S7	SW6-T-SH

# ISOTURN JETCUT

## SRGCR-12-JHP

Screw Lock Tools with Channels for High-Pressure Coolant Carrying Round Inserts with 7° Clearance Angle



Designation	H	B	HF	LF	LH	WF	GAMP	GAMF	Insert
SRGCR 2525M-12-JHP	25.0	25.0	25.0	150.00	30.0	32.00	0.0	0.0	RCMT 1204

• For user guide, see pages 78-84

For inserts, see pages: RCMT-14 (202)

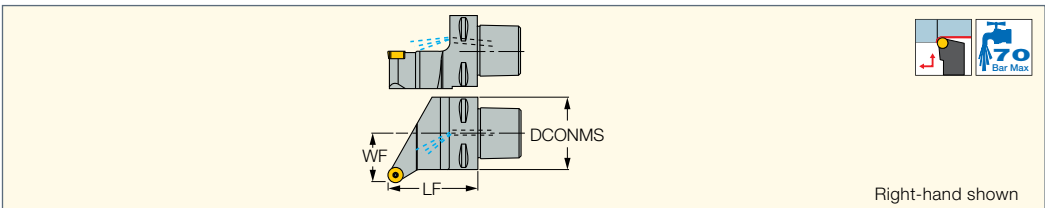
### Spare Parts

Designation									
SRGCR 2525M-12-JHP	TRC 4-0	SR TC-4	T-8/5	SR 16-212	T-20/5	CU-R-JHP	SR M4X4 DIN913 TL360	HW 2.0	HW 3.0

# ISOTURN CAMFIX

## C#-SRGCR/L

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



Designation	DCONMS	WF	LF	Insert	CDI <sup>(1)</sup>	CP <sup>(2)</sup>						
C5 SRGCR-35060-12	50.00	35.00	60.00	RCMT 1204MO	1	70	TRC 4-0	SR TC-4	HW 3.0	SR 16-212	T-20/5	EZ 104

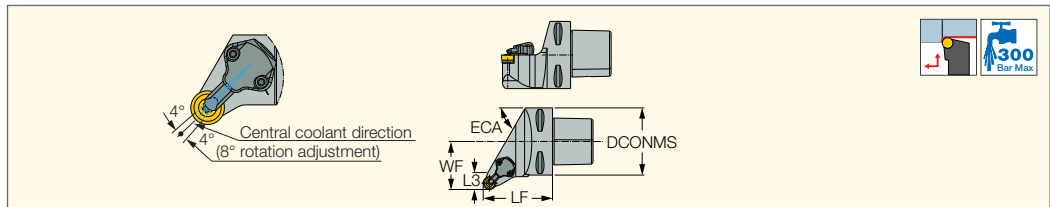
<sup>(1)</sup> 1 - Hole for data chip, 0 - Without hole for data chip

<sup>(2)</sup> Coolant pressure (Bar)

For inserts, see pages: RCMT-14 (202)

# ISOTURN JETCUT CAMFIX

**C#-SRGCR-12-JHP**  
Screw Lock Tools with  
CAMFIX Exchangeable Shanks  
Carrying Round Inserts  
with 7° Clearance Angle

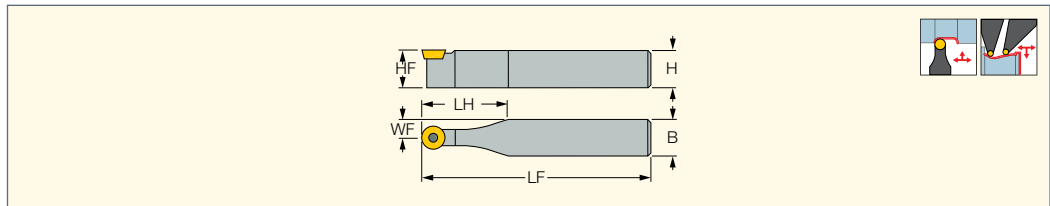


Designation	DCONMS	WF	LF	ECA	L3	Insert	CDI <sup>(2)</sup>	CP <sup>(1)</sup>								
<b>C6 SRGCR-45065-12-JHP</b>	63.00	45.00	65.00	60.0	16.00	RCMT 1204MO	1	300	TRC 4-0	SR TC-4	T-20/5	SR 16-212	HW 3.0	CU-R-JHP	T-8/5	

• For user guide, see pages 78-84  
<sup>(1)</sup> Coolant pressure (Bar)  
<sup>(2)</sup> 1 - Hole for data chip, 0 - Without hole for data chip  
**For inserts, see pages: RCMT-14 (202)**

## ISOTURN

**SRDCN**  
Screw Lock Neutral Tools  
Carrying Round Inserts  
with 7° Clearance Angle



Designation	H	HF	B	LF	LH	WF	Insert
<b>SRDCN 1616H-08</b>	16.0	16.0	16.0	100.00	33.0	8.00	RCMT 0803MO
<b>SRDCN 2020K-10</b>	20.0	20.0	20.0	125.00	38.0	10.00	RCMT 10T3MO
<b>SRDCN 2525M-12</b>	25.0	25.0	25.0	150.00	50.0	12.50	RCMT 1204MO
<b>SRDCN 3225P-12</b>	32.0	32.0	25.0	170.00	50.0	12.50	RCMT 1204MO
<b>SRDCN 3225P-16</b>	32.0	32.0	25.0	170.00	50.0	12.50	RCMT 1606MO
<b>SRDCN 3232P-20</b>	32.0	32.0	32.0	170.00	50.0	16.00	RCMT 2006MO

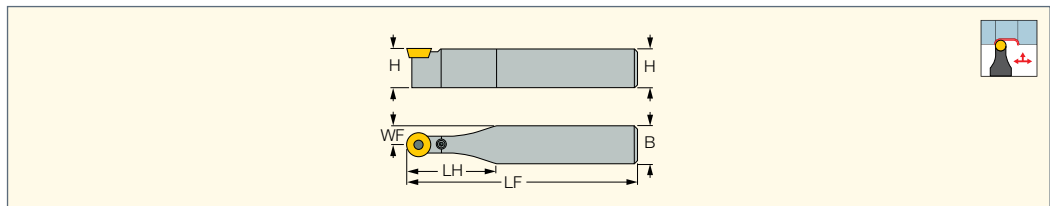
**For inserts, see pages: RCGT-AS (213) • RCMT-14 (202) • RCMT-SR (202)**

### Spare Parts

Designation							
<b>SRDCN 1616H-08</b>	SR 14-513	T-8/5					
<b>SRDCN 2020K-10</b>	SR 16-236	T-15/5					
<b>SRDCN 2525M-12</b>	SR 16-212	T-20/5	TRC 4-0	SR TC-4	HW 3.0		
<b>SRDCN 3225P-12</b>	SR 16-212	T-20/5	TRC 4-0	SR TC-4	HW 3.0		
<b>SRDCN 3225P-16</b>	SR 16-212	T-20/5	TRC 5-0	SR TC-4	HW 3.0		
<b>SRDCN 3232P-20</b>	SR 14-519		TRC 6-0	SR TC-6	HW 4.0	BLD T20/S7	SW6-T-SH

## ISOTURN

**PRDCN**  
Lever Lock Tools Carrying  
RCMX Round Inserts

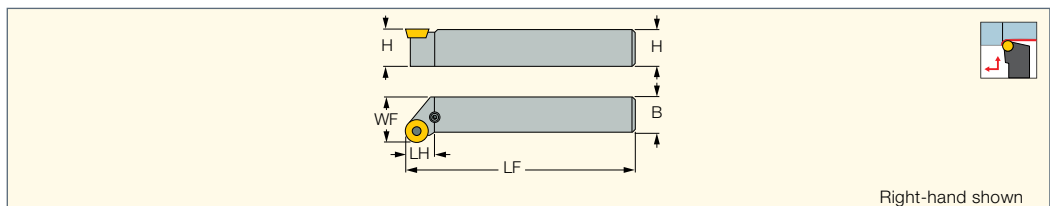


Designation	H	HF	B	LF	LH	WF	Insert						
<b>PRDCN 4040S-25</b>	40.0	40.0	40.0	250.00	80.0	20.00	RCMX 2507	TRC 25	SP 66	HW 4.0	SR 10402289	LR 25C	
<b>PRDCN 5050U-32</b>	50.0	50.0	50.0	350.00	90.0	25.00	RCMX 3209	TRC 32	SP 8	HW 5.0	SR 10402264	LR 32C	

**For inserts, see pages: RCMX-NR (203)**

## ISOTURN

**PRGCR**  
Lever Lock Tools Carrying  
RCMX Round Inserts



Right-hand shown

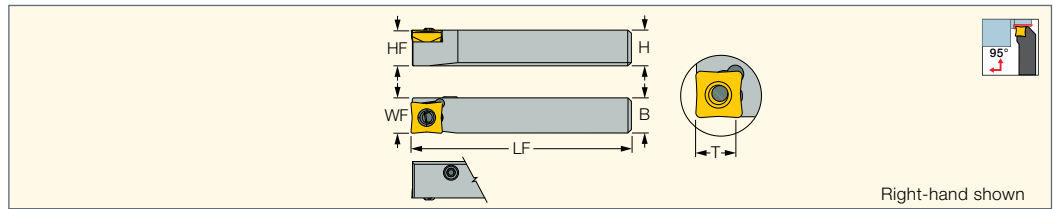
Designation	H	B	HF	LF	LH	WF	Insert					
<b>PRGCR 4040S-25</b>	40.0	40.0	40.0	250.00	30.0	50.00	RCMX 2507	TRC 25	SP 66	SR 10402289	LR 25C	HW 4.0

**For inserts, see pages: RCMX-NR (203)**

**ISOTURN**

**PQLCR/L-S**

Side Lever Lock Tools Carrying 80° Positive 4-Cornered Inserts for Swiss Automatic Machines



Right-hand shown

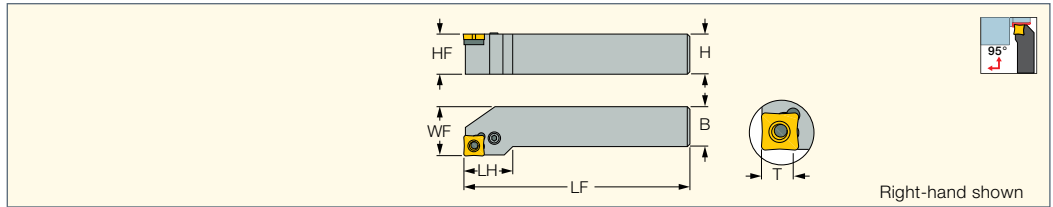
Designation	H	B	HF	LF	WF	T	Insert				
<b>PQLCR/L 1212M-09S</b>	12.0	12.0	12.0	150.00	12.00	8.5	QCMT 09T3	SL LV-3	SL PI-3	SR 10400150	HW 2.5/5

For inserts, see pages: QCMT-PF (203) • QCMT-SM (203)

**ISOTURN**

**PQLCR/L**

Lever Lock Tools Carrying 80° Positive 4-Cornered Inserts



Right-hand shown

Designation	H	HF	B	LF	LH	WF	T	Insert
<b>PQLCR/L 1616H-09</b>	16.0	16.0	16.0	100.00	22.0	20.00	8.5	QCMT 09T3
<b>PQLCR/L 2020K-09</b>	20.0	20.0	20.0	125.00	25.0	25.00	8.5	QCMT 09T3
<b>PQLCR/L 2525M-09</b>	25.0	25.0	25.0	150.00	26.0	32.00	8.5	QCMT 09T3

For inserts, see pages: QCMT-PF (203) • QCMT-SM (203)

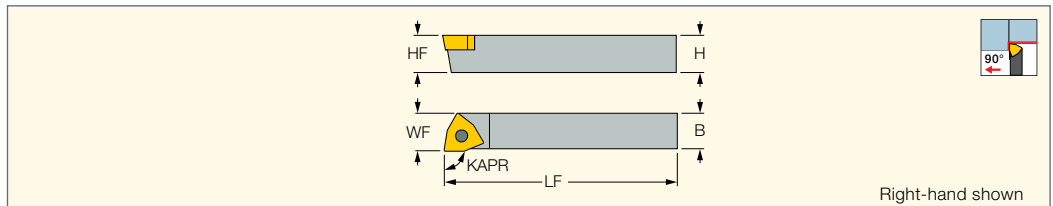
**Spare Parts**

Designation						
<b>PQLCR/L</b>	TXC 322	SP 3	PN 3-4	LR 3	SR 117-2014	HW 2.5/5

**ISOTURN**

**SWAPR/L**

90° Lead Angle Screw Lock Tools Carrying Trigon Inserts for Swiss Automatic Machines



Right-hand shown

Designation	H	HF	B	LF	WF	KAPR <sup>(1)</sup>	Insert		
<b>SWAPR/L 0808-04</b>	8.0	8.0	8.0	140.00	8.10	90.0	WPEB/X 04..	T-8/5	SR M3.0R/L
<b>SWAPR/L 1010-04</b>	10.0	10.0	10.0	150.00	10.10	90.0	WPEB/X 04..	T-8/5	SR M3.0R
<b>SWAPR/L 1010-05</b>	10.0	10.0	10.0	150.00	10.10	90.0	WPEB/X 05..	T-8/5	SR M3.5R/L
<b>SWAPL 1212-05</b>	12.0	12.0	12.0	150.00	12.10	90.0	WPEB/X 05..	T-8/5	SR M3.5R/L
<b>SWAPR/L 1212-06</b>	12.0	12.0	12.0	150.00	12.10	90.0	WPEB/X 06..	T-8/5	SR M3.5R/L
<b>SWAPR 1414-06</b>	14.0	14.0	14.0	150.00	14.10	90.0	WPEB/X 06..	T-8/5	SR M3.5R/L
<b>SWAPR/L 1616-06</b>	16.0	16.0	16.0	150.00	16.10	90.0	WPEB/X 06..	T-8/5	SR M3.5R/L

• For R.H. tool use -R screw, for L.H. tool use -L screw.

<sup>(1)</sup> Tool cutting edge angle

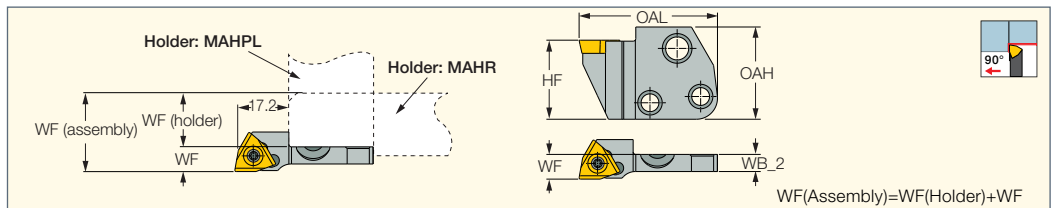
For inserts, see pages: WPEX (208)

**ISOTURN**

**MODULAR GRIP**

**SWAPR-PAD**

90° Lead Angle Screw Lock Adapters Carrying Trigon Inserts for Swiss Automatic Machines



$WF(Assembly) = WF(Holder) + WF$

Designation	HF	OAH	OAL	WF	WB_2	Insert		
<b>SWAPR-06-PAD</b>	24.0	28.0	42.00	7.50	5.2	WPEX/B 0604	SR M3.5R	T-8/5

For inserts, see pages: WPEX (208)

For holders, see pages: C#-MAHD-JHP (624) • C#-MAHPD-JHP (625) • MAHR/L-JHP-MC (280) • MAHPR/L-JHP (281) • MAHR/L-JHP (279)

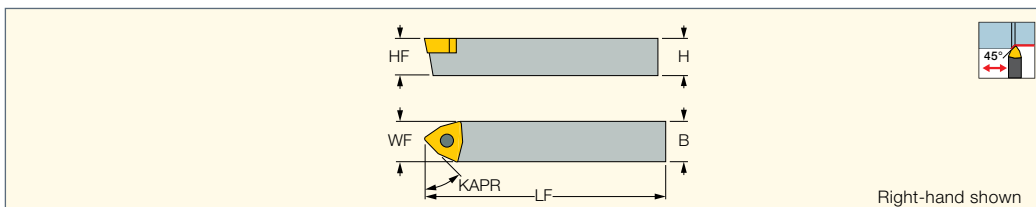
• MAHR/L (279) • MAHPR/L (280) • C#-MAHD (624) • C#-MAHPD (625) • C#-MAHDR-45 (623) • C#-MAHDOR (624) • HSK A63WH-MAHUR/L (632)

• HSK A63WH-MAHDR-45 (631) • HSK A63WH-MAHDOR (631) • IM-MAHD (633) • IM-MAHPD (633) • HMSN-New Britain (478) • DGHAL-DECO (478)

## ISOTURN

### SWDPR/L

45° Lead Angle Screw Lock  
Tools Carrying Trigon Inserts for  
Swiss Automatic Machines



Right-hand shown

Designation	H	HF	B	LF	WF	KAPR <sup>(1)</sup>	Insert		
SWDPR 1010-04	10.0	10.0	10.0	150.00	10.10	45.0	WPEB/X 04..	T-8/5	SR M3.0R
SWDPR/L 1212-05	12.0	12.0	12.0	150.00	12.10	45.0	WPEB/X 05..	T-8/5	SR M3.5R/L
SWDPR 1616-06	16.0	16.0	16.0	150.00	16.10	45.0	WPEB/X 06..	T-8/5	SR M3.5R

• For R.H. tool use -R screw, for L.H. tool use -L screw

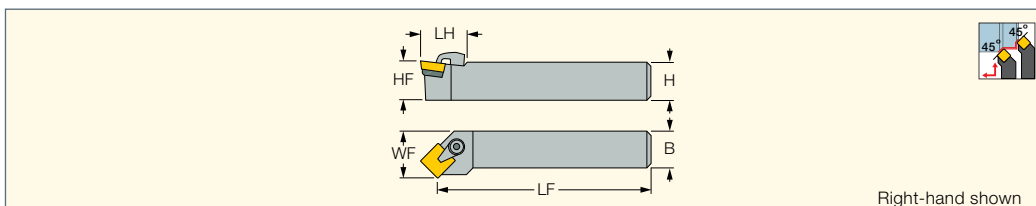
<sup>(1)</sup> Tool cutting edge angle

For inserts, see pages: WPEX (208)

## ISOTURN

### CSSPR/L

Clamp Lock Tools Carrying 11°  
Clearance Square Inserts for  
Longitudinal and Face Turning



Right-hand shown

Designation	H	HF	B	LF	LH	WF	Insert				
CSSPR 1212F-09	12.0	12.0	12.0	80.00	21.0	16.00	SPMR 0903				LC 15 SET 1 HW 2.5
CSSPR 1616H-12 <sup>(1)</sup>	16.0	16.0	16.0	100.00	26.0	20.00	SPMR 1203	ISQP 162	SP 16	LC 30 SET 2	HW 3.0
CSSPR 2020K-12 <sup>(1)</sup>	20.0	20.0	20.0	125.00	26.0	25.00	SPMR 1203	ISQP 162	SP 16	LC 30 SET 1	HW 3.0
CSSPR/L 2525M-12 <sup>(1)</sup>	25.0	25.0	25.0	150.00	28.0	32.00	SPMR 1203	ISQP 162	SP 16	LC 30 SET 1	HW 3.0

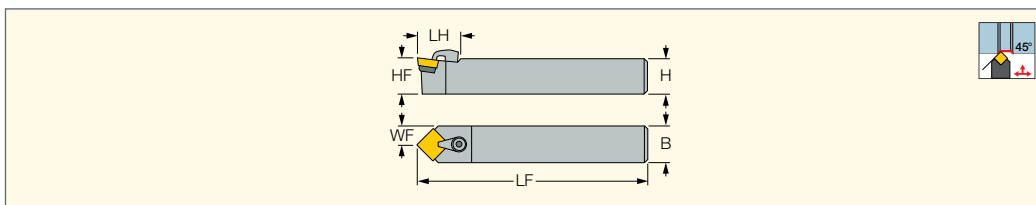
<sup>(1)</sup> ISQP 163 for inserts with corner radii 1.6-2.4 mm.

For inserts, see pages: SPMR (204)

## ISOTURN

### CSDPN

45° Lead Angle Clamp  
Lock Tools Carrying 11°  
Clearance Square Inserts



Designation	H	HF	B	LF	LH	WF	Insert				
CSDPN 2020K-12	20.0	20.0	20.0	125.00	30.0	10.00	SPMR 1203	ISQP 162 <sup>(a)</sup>	SP 16	LC 30 SET 1	HW 3.0
CSDPN 2525M-12	25.0	25.0	25.0	150.00	30.0	12.50	SPMR 1203	ISQP 162 <sup>(a)</sup>	SP 16	LC 30 SET 1	HW 3.0

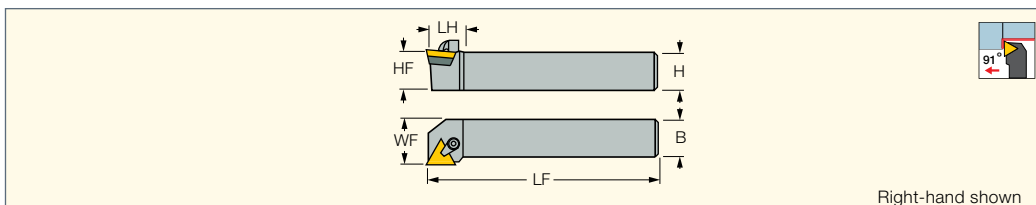
<sup>(a)</sup> Use ISQP 163 seat for inserts with corner radii 1.6-2.4 mm

For inserts, see pages: SPMR (204)

## ISOTURN

### CTGPR/L

Clamp Lock Tools Carrying 11°  
Clearance Triangular Inserts



Right-hand shown

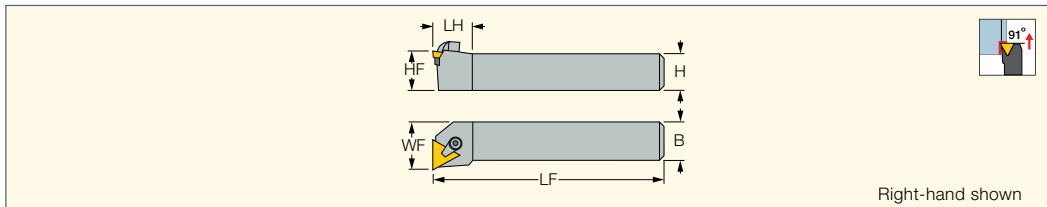
Designation	H	HF	B	LF	LH	WF	Insert					
CTGPR/L 1212F-11	12.0	12.0	12.0	80.00	17.0	16.00	TPMR/TPGN 1103					LC 15 SET 1 HW 2.5
CTGPR 1616H-11	16.0	16.0	16.0	100.00	16.0	20.00	TPMR/TPGN 1103					LC 15 SET 1 HW 2.5
CTGPR/L 2020K-16	20.0	20.0	20.0	125.00	26.0	25.00	TPMR/TPGN 1603	ITBP 122	ITBP 123*	SP 16 <sup>(a)</sup>	LC 30 SET 1	HW 3.0
CTGPR/L 2525M-16	25.0	25.0	25.0	150.00	26.0	32.00	TPMR/TPGN 1603	ITBP 122	ITBP 123*	SP 16 <sup>(a)</sup>	LC 30 SET 1	HW 3.0

\* Optional, should be ordered separately

<sup>(a)</sup> Use ITBP 123 seat for inserts with corner radii 1.6-2.4 mm

For inserts, see pages: TPGN-Ceramic (220) • TPNR (204) • TPNR-FTF (205) • TPNR-PF (204)

**CTFPR/L**  
Clamp Lock Tools Carrying  
11° Clearance Triangular  
Inserts for Face Turning



Designation	H	HF	B	LF	LH	WF	GAMP	GAMF	Insert
CTFPR 1212F-11	12.0	12.0	12.0	80.00	16.0	16.00	0.0	6.0	TPMR/TPGN 1103
CTFPR/L 1616H-11	16.0	16.0	16.0	100.00	16.0	20.00	0.0	6.0	TPMR/TPGN 1103
CTFPR 2020K-16	20.0	20.0	20.0	125.00	22.0	25.00	0.0	6.0	TPMR/TPGN 1603
CTFPR/L 2525M-16	25.0	25.0	25.0	150.00	22.0	32.00	0.0	6.0	TPMR/TPGN 1603

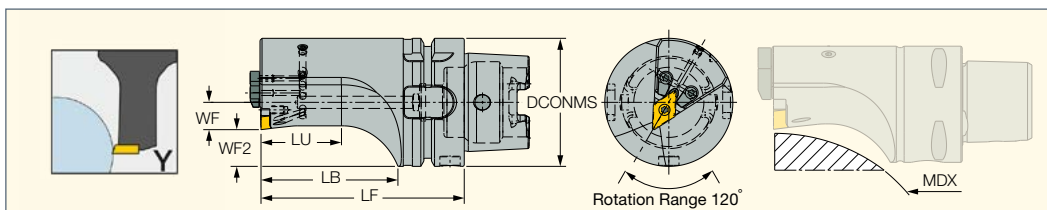
For inserts, see pages: TPGN-Ceramic (220) • TPMR (204) • TPMR-FTF (205) • TPMR-PF (204)

**Spare Parts**

Designation					
CTFPR 1212F-11		HW 2.5		LC 15 SET 1	
CTFPR/L 1616H-11		HW 2.5		LC 15 SET 1	
CTFPR 2020K-16	ITBP 122	HW 3.0	SP 16	LC 30 SET 1	ITBP 123*
CTFPL 2525M-16	ITBP 122	HW 3.0	SP 16	LC 30 SET 1	
CTFPR 2525M-16	ITBP 122	HW 3.0	SP 16	LC 30 SET 1	ITBP 123*

\* Optional, should be ordered separately

**HSK ISOYTURN**  
Y-Axis Turning Tools Carrying  
55° Diamond Inserts with  
7° Clearance Angle



Designation	DCONMS	LU	LB	LF	WF	WF2	MDX <sup>(1)</sup>	MIID <sup>(2)</sup>	CDI <sup>(3)</sup>
HSK A63WH-SDJCN-13SL-100Y	63.00	39.60	67.40	100.00	13.44	18.1	215.00	DCMT 13T504-F3P-SL	0
HSK A63WH-SDJCN-13SL-125Y	63.00	64.60	92.40	125.00	13.44	18.1	390.00	DCMT 13T504-F3P-SL	0

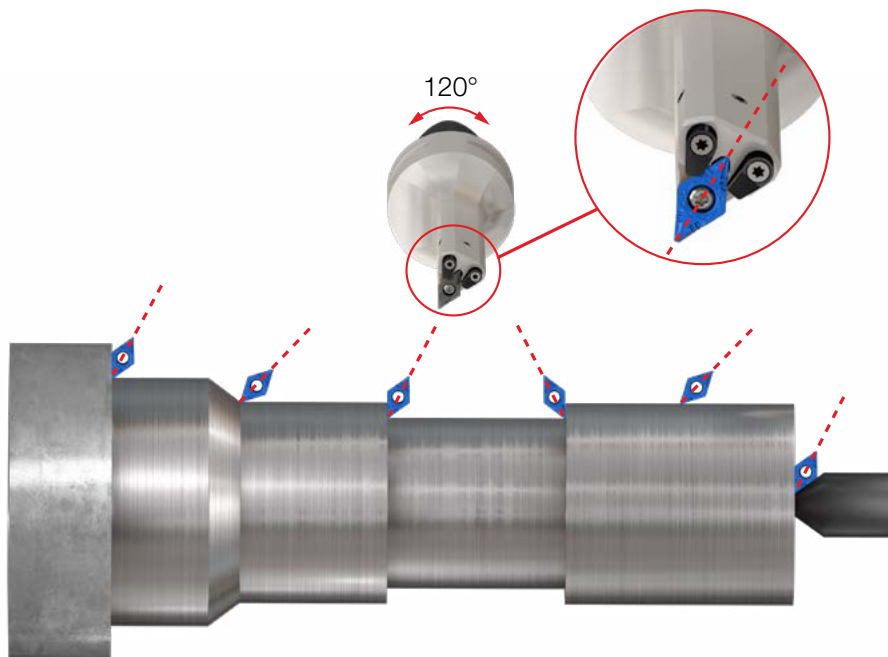
• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately). • For shank dimensions, see page 735

<sup>(1)</sup> Machinable diameter maximum

<sup>(2)</sup> Master insert identification

<sup>(3)</sup> 1 - Hole for data chip, 0 - Without hole for data chip

For inserts, see pages: DCMT-F3P-SL (190) • DCMT-M3M-SL (191) • DCMT-PF-SL (193) • DCMT-SM-SL (193)



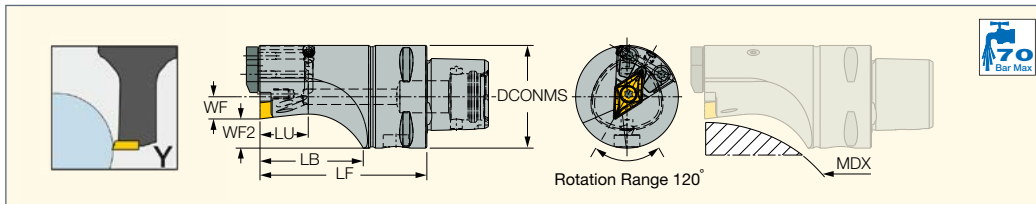
**Spare Parts**

Designation					
HSK A63WH-SDJCN-13-Y	CH-1.9D-JHP-A SET	BLD IP15/S7	SW6-T-SH	SR M4X4 DIN913 TL360	SR M4X0.7-L9.6 IP15



# CAMFIX ISOYTURN

**C#-SDJCN-13-Y**  
Y-Axis Turning Tools Carrying  
55° Diamond Inserts with  
7° Clearance Angle



Designation	DCONMS	LU	LB	LF	WF	WF2	MDX <sup>(1)</sup>	MIID <sup>(2)</sup>	CDI <sup>(3)</sup>
C4-SDJCN-13-SL-H65-Y	40.00	18.80	40.20	65.00	8.64	11.4	120.00	DCMT 13T504-F3P-SL	0
C4-SDJCN-13-SL-H80-Y	40.00	30.30	54.40	80.00	8.64	11.4	210.00	DCMT 13T504-F3P-SL	0
C5-SDJCN-13-SL-H80-Y	50.00	28.20	53.70	80.00	10.76	14.2	180.00	DCMT 13T504-F3P-SL	0
C5-SDJCN-13-SL-H100-Y	50.00	48.20	73.70	100.00	10.76	14.2	320.00	DCMT 13T504-F3P-SL	0
C6-SDJCN-13-SL-H100-Y	63.00	46.80	73.80	100.00	13.44	18.1	260.00	DCMT 13T504-F3P-SL	0
C6-SDJCN-13-SL-H125-Y	63.00	71.30	98.30	125.00	13.44	18.1	420.00	DCMT 13T504-F3P-SL	0

• For user guide, see page 622

<sup>(1)</sup> Machinable diameter maximum

<sup>(2)</sup> Master insert identification

<sup>(3)</sup> 1 - Hole for data chip, 0 - Without hole for data chip

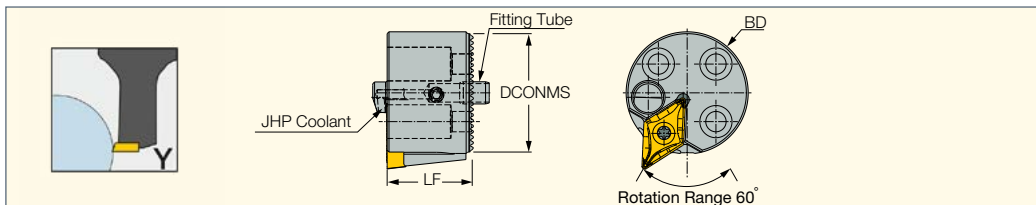
For inserts, see pages: DCMT-F3P-SL (190) • DCMT-M3M-SL (191) • DCMT-PF-SL (193) • DCMT-SM-SL (193)

## Spare Parts

Designation					
C#-SDJCN-13-Y	CH-1.9D-JHP-A SET	BLD IP15/S7	SW6-T-SH	SR M4X4 DIN913 TL360	SR M4X0.7-L9.6 IP15

# ISOYTURN

**AVC-SDJCN-Y**  
Interchangeable Heads Carrying  
55° Rhombic Inserts



Designation	DCONMS	BD	LF	MIID <sup>(1)</sup>	CSP <sup>(2)</sup>
AVC-D25-SDJCN-13-SL-Y	25.00	26.00	20.00	DCMT 13T504-F3P-SL	1
AVC-D32-SDJCN-13-SL-Y	32.00	33.00	23.00	DCMT 13T504-F3P-SL	1
AVC-D40-SDJCN-13-SL-Y	40.00	41.00	25.00	DCMT 13T504-F3P-SL	1

<sup>(1)</sup> Master insert identification

<sup>(2)</sup> 0 - Without coolant supply, 1 - With coolant supply

For inserts, see pages: DCMT-F3P-SL (190) • DCMT-M3M-SL (191) • DCMT-PF-SL (193) • DCMT-SM-SL (193)

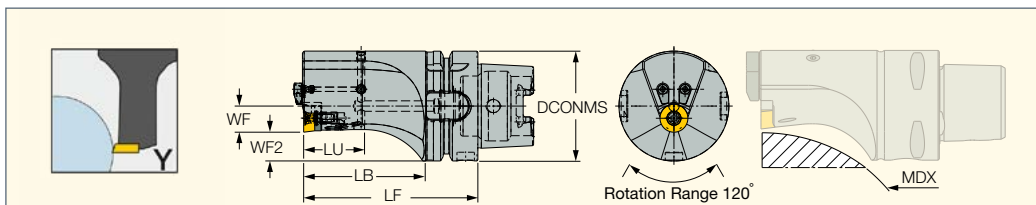
For holders, see pages: C#-SH-E-JHP (630) • C#-SH-JHP (630)

## Spare Parts

Designation						
AVC-SDJCN-Y	CH-1.9D-JHP-A SET	SR M5X5 DIN913 TL360	BLD IP15/S7	SW6-T-SH	SR M4X0.7-L9.6 IP15	PIN FT39 D6-5X11

# HSK ISOYTURN

**HSK A63WH-RCMT-Y**  
Y-Axis Turning Tools  
Carrying Round Inserts  
with 7° Clearance Angle



Designation	DCONMS	LU	LB	LF	WF	WF2	MDX <sup>(1)</sup>	Insert	CDI <sup>(2)</sup>
HSK A63WH-SRDCN-16-100Y	63.00	34.90	69.80	100.00	15.00	16.5	240.00	RCMT 1606MO-14	0
HSK A63WH-SRDCN-16-125Y	63.00	60.00	93.40	125.00	15.00	16.5	380.00	RCMT 1606MO-14	0

• A cooling tube must be used with all coolant through HSK spindles (should be ordered separately). • For shank dimensions, see page 735

<sup>(1)</sup> Machinable diameter maximum

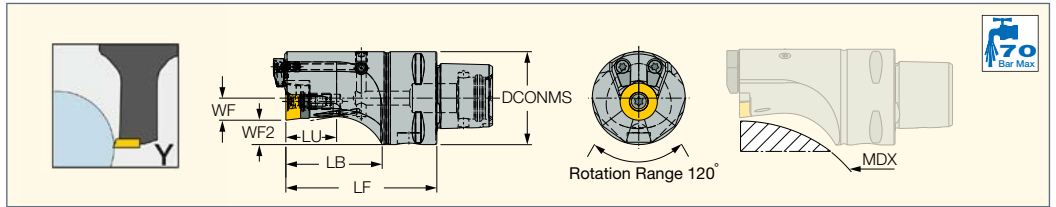
<sup>(2)</sup> 1 - Hole for data chip, 0 - Without hole for data chip

For inserts, see pages: RCMT-14 (202) • RCMT-SR (202)

## Spare Parts

Designation							
HSK A63WH-RCMT-Y	TRC 5-0	SR TC-4	CH-1.9D-JHP-A SET	SR 16-212	HW 3.0	BLD T20/S7	SW6-T-SH

**C#-RCMT-16-Y**  
Y-Axis Turning Tools  
Carrying Round Inserts  
with 7° Clearance Angle



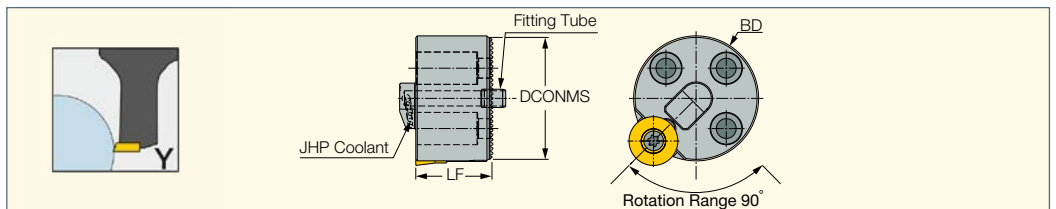
Designation	DCONMS	LU	LB	LF	WF	WF2	MDX <sup>(1)</sup>	Insert	CDI <sup>(2)</sup>
C4-SRDCN-16-H65-Y	40.00	21.90	41.50	65.00	9.50	10.5	130.00	RCMT 1606M0-14	0
C4-SRDCN-16-H80-Y	40.00	36.80	56.70	80.00	9.50	10.5	210.00	RCMT 1606M0-14	0
C5-SRDCN-16-H80-Y	50.00	27.00	56.20	80.00	12.00	13.0	180.00	RCMT 1606M0-14	0
C5-SRDCN-16-H100-Y	50.00	44.40	76.20	100.00	12.00	13.0	350.00	RCMT 1606M0-14	0
C6-SRDCN-16-H100-Y	63.00	40.50	74.00	100.00	15.00	16.5	260.00	RCMT 1606M0-14	0
C6-SRDCN-16-H125-Y	63.00	65.50	98.90	125.00	15.00	16.5	450.00	RCMT 1606M0-14	0

- For user guide, see page 622
  - <sup>(1)</sup> Machinable diameter maximum
  - <sup>(2)</sup> 1 - Hole for data chip, 0 - Without hole for data chip
- For inserts, see pages: RCMT-14 (202) • RCMT-SR (202)

**Spare Parts**

Designation							
C#-RCMT-16-Y	TRC 5-0	SR TC-4	CH-1.9D-JHP-A SET	SR 16-212	HW 3.0	BLD T20/S7	SW6-T-SH

**AVC-SRDCN-Y**  
Interchangeable Heads  
Carrying Round Inserts



Designation	DCONMS	BD	LF	MIID <sup>(1)</sup>	CSP <sup>(2)</sup>
AVC-D16-SRDCN-08-Y	16.00	17.00	12.00	RCMT 0803M0-14	1
AVC-D20-SRDCN-10-Y	20.00	21.00	20.00	RCMT 10T3M0-14	1
AVC-D25-SRDCN-12-Y	25.00	26.00	20.00	RCMT 1204M0-14	1
AVC-D32-SRDCN-16-Y	32.00	33.00	23.00	RCMT 1606M0-14	1
AVC-D40-SRDCN-16-Y	40.00	41.00	25.00	RCMT 1606M0-14	1

- <sup>(1)</sup> Master insert identification
  - <sup>(2)</sup> 0 - Without coolant supply, 1 - With coolant supply
- For holders, see pages: C#-SH-E-JHP (630) • C#-SH-JHP (630)



## JET HIGH-PRESSURE TOOLS

### High-Pressure Coolant

#### Important Features

- Up to 200% increased cutting speed when machining titanium and heat resistant alloys.
- Effective chip control on problematic materials.
- Up to 100% increased tool life when machining titanium, heat resistant alloys and alloy steel.

JHP tools are essential and important for the aviation, aerospace and medical industries.

The coolant channels of the JHP tools feature outlets very close to the cutting edges, thus gaining the following advantages:

- Shorter machining time – cutting speed may be increased by up to 200% when machining titanium and heat resistant alloys.
- Longer tool life – increased tool life by up to 100% not only on titanium and heat resistant alloys, but also on stainless and alloy steels.
- Improved chip control – small chips can be obtained even on the most ductile and problematic materials
- Effective cooling down of the cutting edge, reducing sensitivity to heat fluctuations.
- Safer and more stable process.

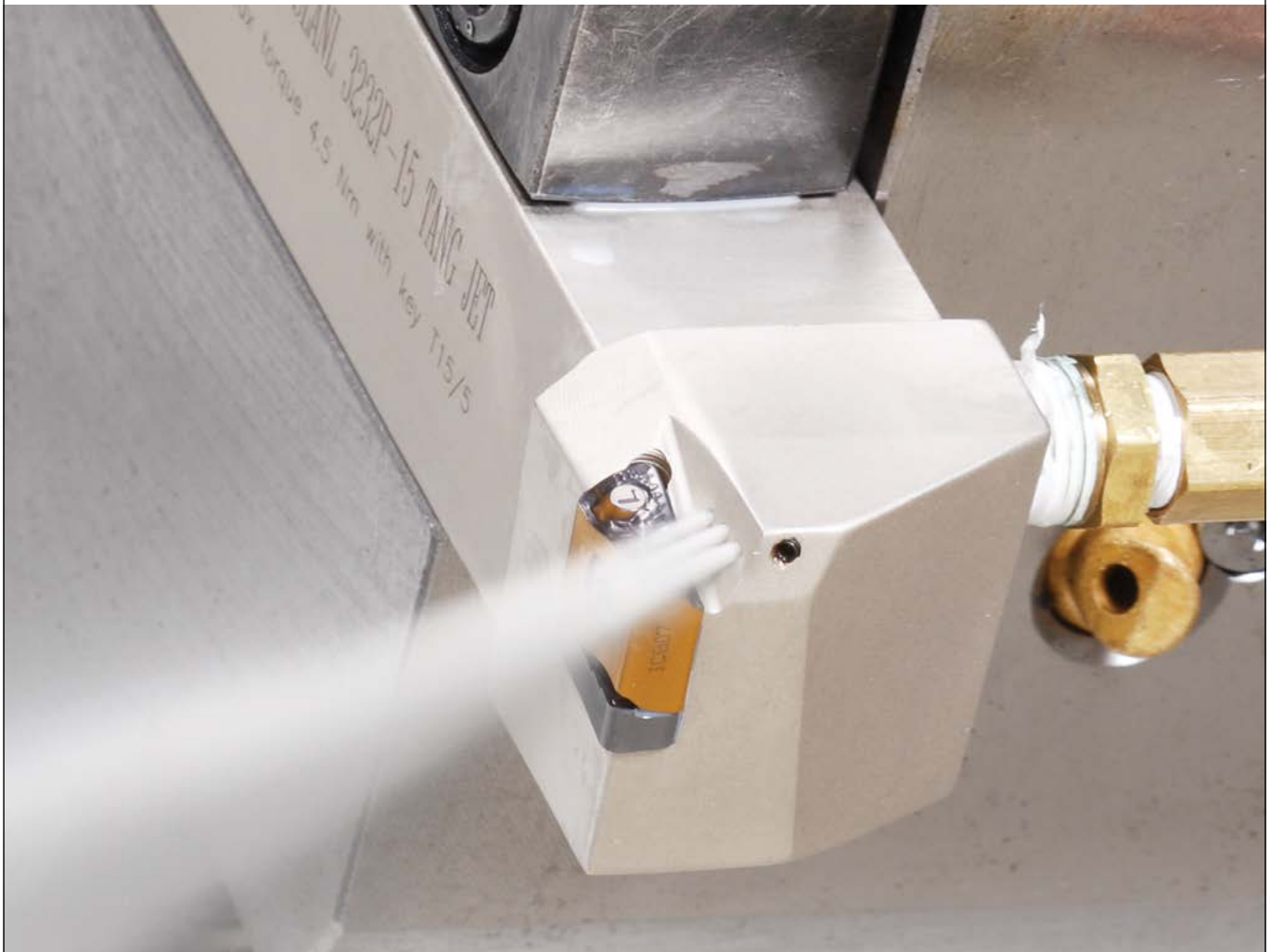
JHP tools provide advantageous performance, also when conventional pressure is applied.

#### Pressure vs. Flow

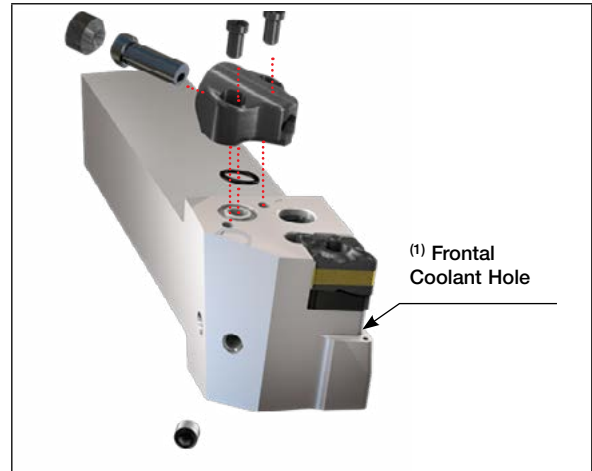
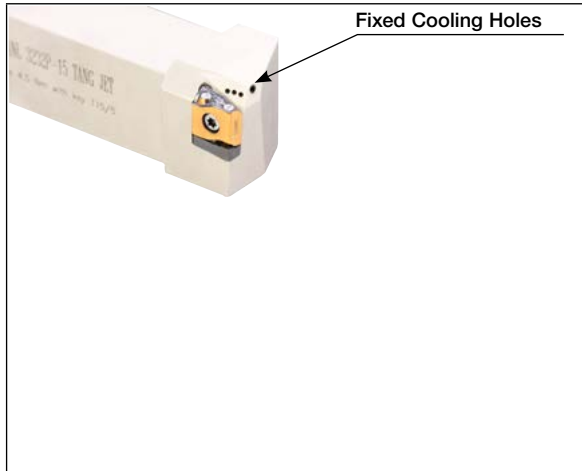
- Each JHP tool is designed to work at a certain flow rate, depending on the pressure. The flow rates are listed in the catalog pages for each tool. The user should verify that the pump can supply the required flow in order to achieve the optimal results. The pump data sheet will usually list the maximum flow rate for each pressure range.

#### Chips & Pressure

- The coolant flow will start to break the chips at a certain pressure, depending on the specific tool and the workpiece material. If the chips are not breaking, the pressure should be increased until chip control is achieved. As the pressure is increased, the chips become smaller and smaller. It is possible to control the size of the chips by modifying the pressure.



There are 4 various telescopic tubes intended for various insert geometries (see attached table). Each tube possesses a different profile optimized for the specific geometry of the insert.



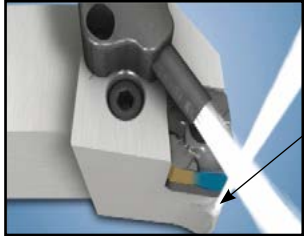
The flow rate for each tube is listed in the table below.

**Flow Rate for Various JHP Nozzles**

Insert	Channel Shape Inside the Nozzle Tube	Nozzle Tube	Flow Rate liter/min			
			70 Bar	100 Bar	140 Bar	300 Bar
		NZ-CW-JHP	19-23.5	22.5-28	26.5-33	46-52
		NZ-D-JHP	19-23.5	22.5-28	26.5-33	46-52
		NZ-V-JHP	9.5-11.8	11.3-14	13.4-16.7	22-26
		NZ-R-JHP	19-23.5	22.5-28	26.5-33	46-52
		Holes	14-16	18-23	23-26	33-37
<b>Frontal Coolant Hole (1)</b>		Hole	5.4-6.6	6.4-8	7.5-9.5	10-14

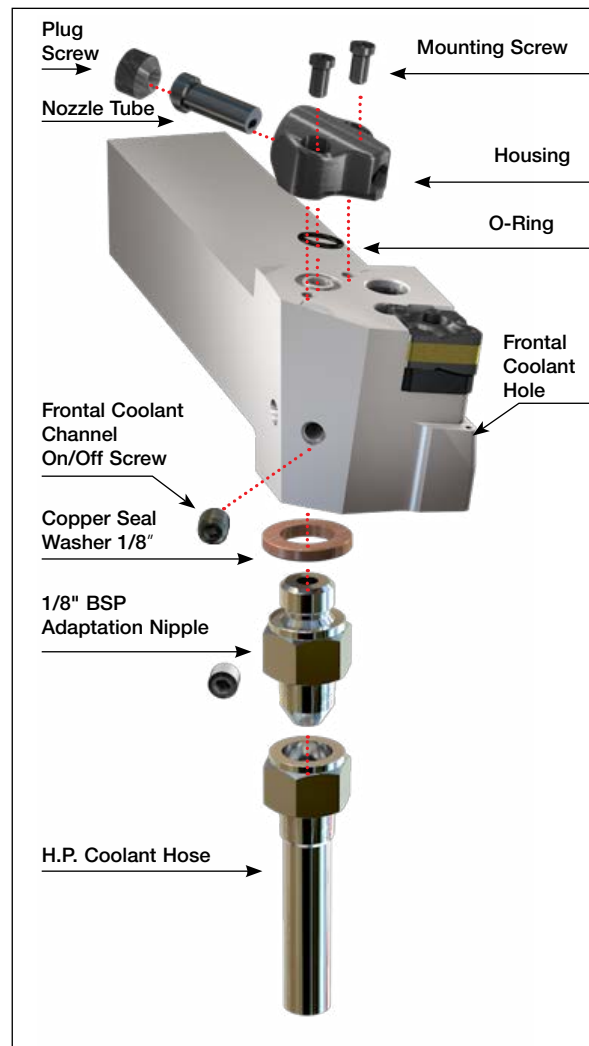
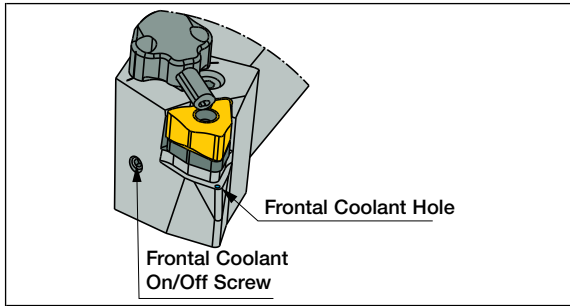
The tools with LNMX 1506... inserts feature fixed cooling channels.

For most of the tools that have a square shank, a frontal coolant hole has been added underneath the seat of the insert to enable coolant flow directed to the flank area of the insert. The frontal coolant jet increases the amount of coolant to the cutting zone. By closing or opening a screw, it acts as a valve that monitors the rate of coolant flow.



Frontal Coolant Hole

SLAN-15-TANG JHP tools for LNMX 1506... inserts, SVJCR/L-16-JHP for VCMT 1604... inserts and all high-pressure coolant tools with **CAMFIX** shanks do not have the frontal cooling channel option.



Inconel 718-Chip Control with  
CNMX 120708-M4MW IC807  $V_c = 70$  (mm/min)

**Normal Pressure**

$a_p$ (mm)			
2			
1			
0.5			
0.25			
	0.15	0.2	0.25
	$f$ (mm/rev)		

**High-Pressure 80 bar**

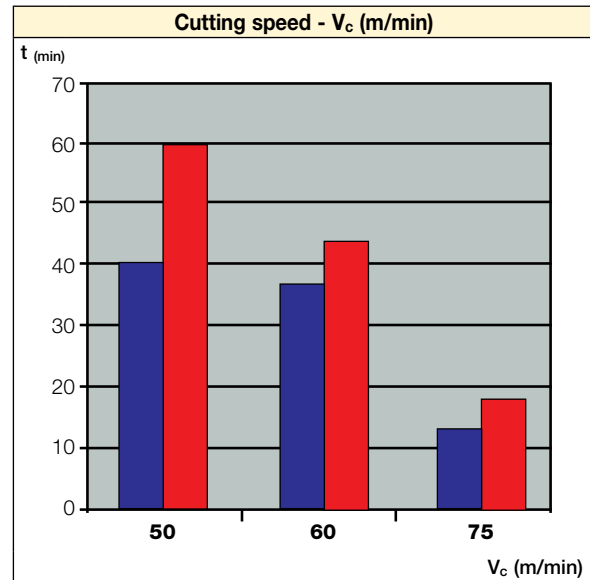
$a_p$ (mm)			
2			
1			
0.5			
0.25			
	0.15	0.2	0.35
	$f$ (mm/rev)		

**Test Report**

**Material:** Titanium (Ti6Al4V)  
**Operation:** Turning  
**Tool:** PCLNL 2525M-12-JHP  
**Insert:** CNMG 120412-PP IC20  
 $a_p$ : 2.5 (mm)  
 $f$ : 0.3 (mm/rev)

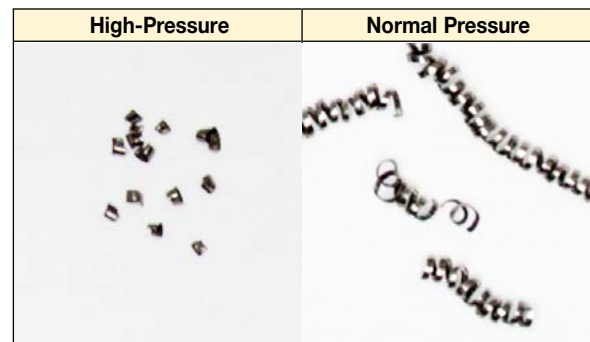


**Pressure Influence on Tool Life**



■ Normal pressure (6-8 bars)  
 ■ High-Pressure (70 bars)

**Pressure Influence on Chip Control**





**Test Report**

**Material:** Stainless steel 316L  
 Operation: Turning  
 Tool: PCLNL 2525M-12-JHP  
 Insert: CNMG 120408-TF IC908  
 $a_p$ : 2.5 (mm)  
 $f$ : 0.3 (mm/rev)

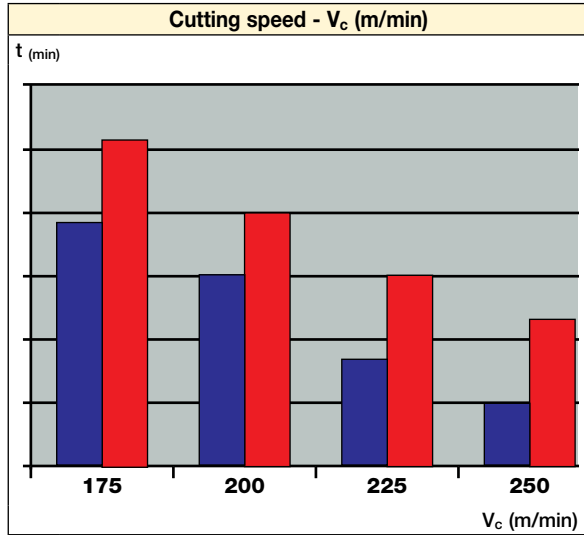


**Test Report**

**Material:** Inconel 718 (46 HRC)  
 Operation: Turning  
 Tool: PCLNL 2525M-12-JHP  
 Insert: CNMG 120408-TF IC808  
 $a_p$ : 2.5 (mm)  
 $f$ : 0.3 (mm/rev)

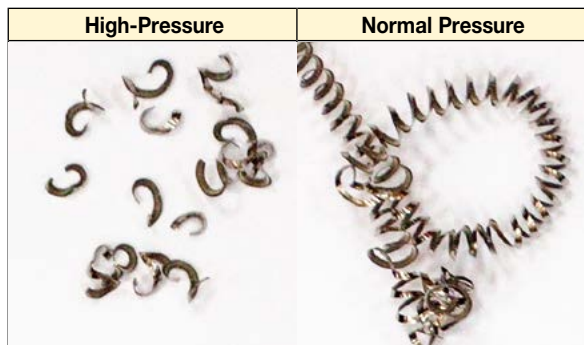


**Pressure Influence on Tool Life**

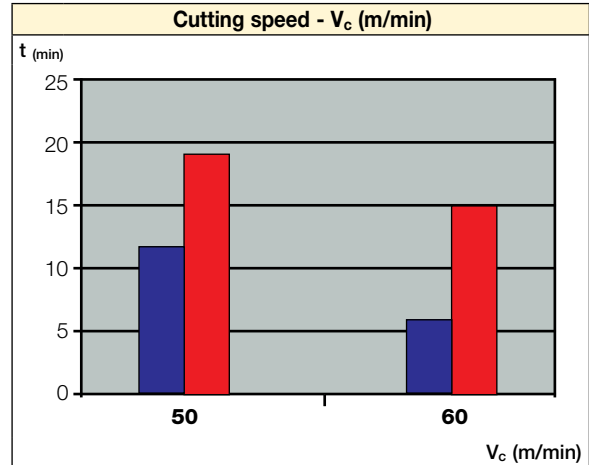


Normal pressure (6-8 bars)  
 High-Pressure (70 bars)

**Pressure Influence on Chip Control**

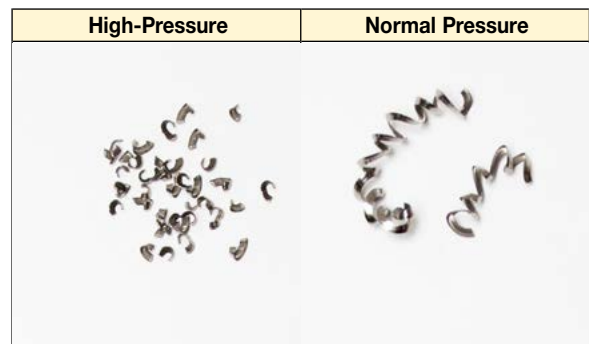


**Pressure Influence on Tool Life**



Normal pressure (6-8 bars)  
 High-Pressure (70 bars)

**Pressure Influence on Chip Control**

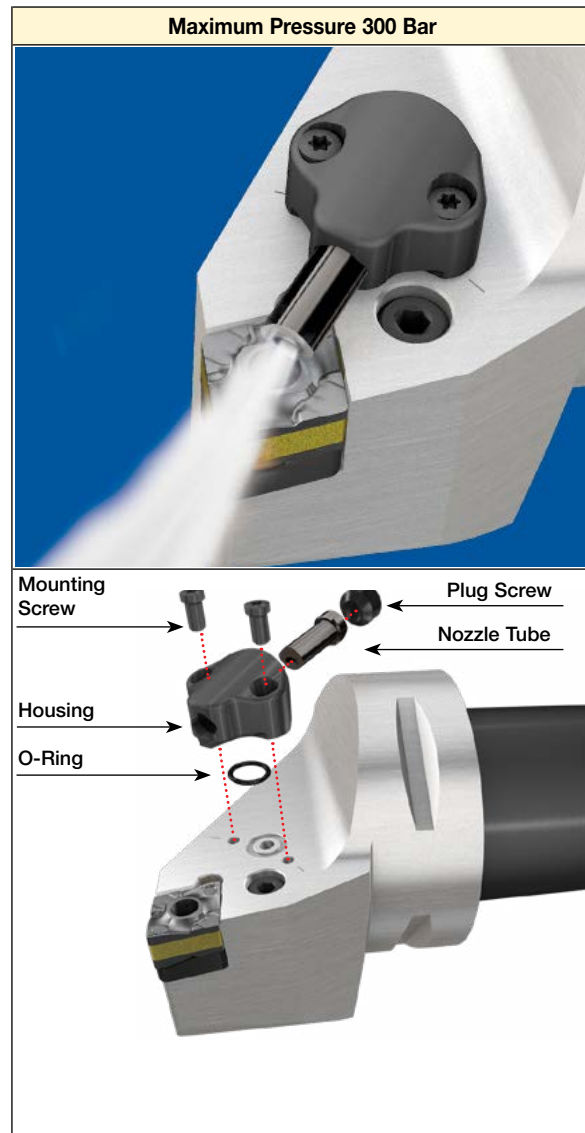
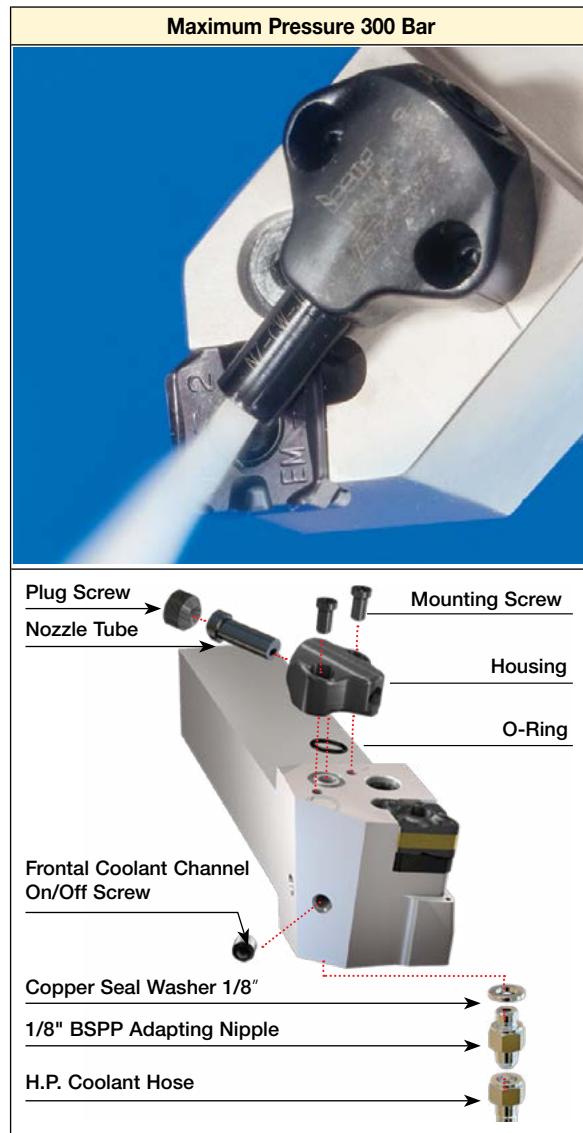


Assembly and Safety Guidelines when using JET HP ISO Turning and Grooving tools. Before use, please ensure that:

- The machine door is in a fully closed position
- The coolant hose is in the correct location and fully tightened with all seals in position
- A blank plug is inserted into the unused coolant hole
- All O-rings and washers are in place
- The coolant hose is tightened securely to the tool holder and tool block to prevent coolant leakage

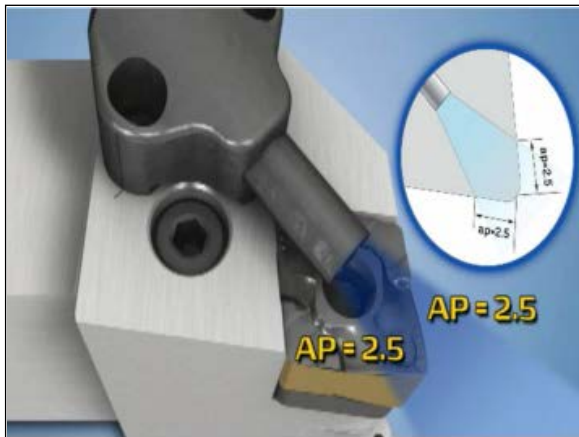
**Important**

Always pay attention not to exceed the maximum safe working pressure of 300 bar.



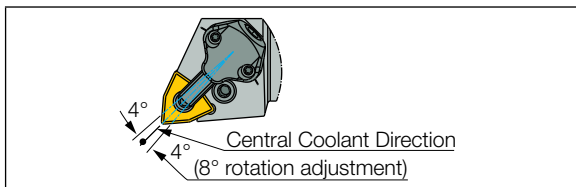
### ISOTURN JHP Tools

The unique High-Pressure coolant system is composed of a static housing and telescopic tube to direct the coolant exactly to the cutting edge of the insert. The telescopic tube embedded in the housing skews right and left, according to the working direction of the tool (see drawing). The advantage of this system is that there is no need to detach the housing of the tool when changing an insert. This reduces setup time.

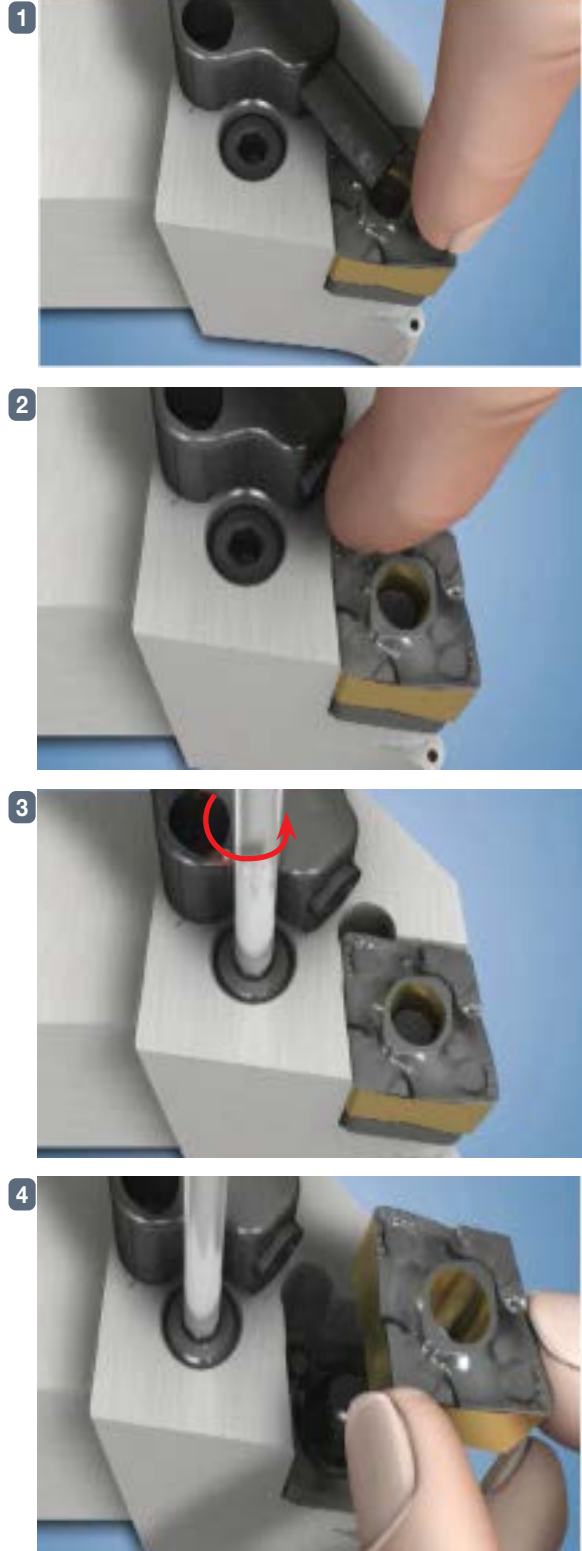


To mount or change an insert, press on the telescopic tube in a backward direction.

After indexing the cutting edge of the insert, starting the coolant will extract the tube automatically to its operating position.



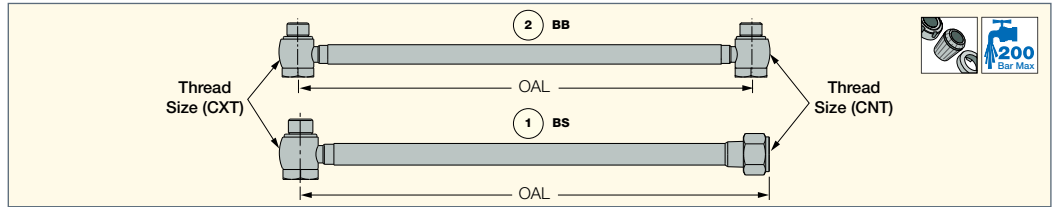
### Insert Indexing Procedure



### Accessories



#### JHP HOSE

High-Pressure Coolant Hose



Designation	OAL	Fig.	CXT	CNT
JHP HOSE G1/8-7/16-200BS	200.00	1	G1/8"-28 BSPP	UNF7/16"-20FLARE 37°
JHP HOSE 5/16-G1/8-200BS	200.00	1	5/16"-24 UNF	G1/8"-28 BSPP
JHP HOSE 5/16-7/16-200BS	200.00	1	5/16"-24 UNF	UNF7/16"-20FLARE 37°
JHP HOSE G1/8-G1/8-200BB	200.00	2	G1/8"-28 BSPP	G1/8"-28 BSPP
JHP HOSE G1/8-7/16-250BS	250.00	1	G1/8"-28 BSPP	UNF7/16"-20FLARE 37°
JHP HOSE G1/8-G1/8-250BB	250.00	2	G1/8"-28 BSPP	G1/8"-28 BSPP

#### Spare Parts

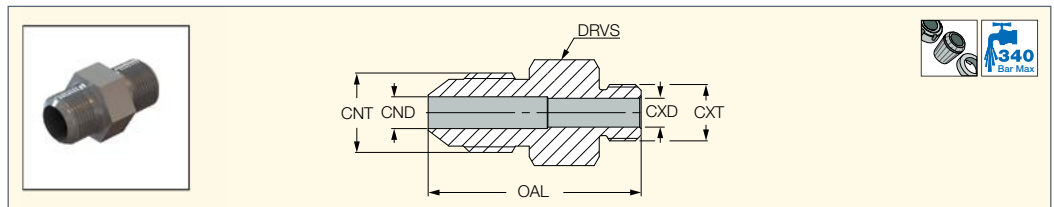
Designation		
JHP HOSE 5/16-7/16-200BS	JHP BANJO BOLT 5/16" UNF	JHP COPPER SEAL 5/16"
JHP HOSE G1/8-G1/8-200BB		JHP COPPER SEAL 1/8**
JHP HOSE G1/8-G1/8-250BB	JHP BANJO BOLT G1/8**	JHP COPPER SEAL 1/8**

\* Optional, should be ordered separately

### Accessories

#### JHP NIPPLE

High-Pressure Adaptation Nipple



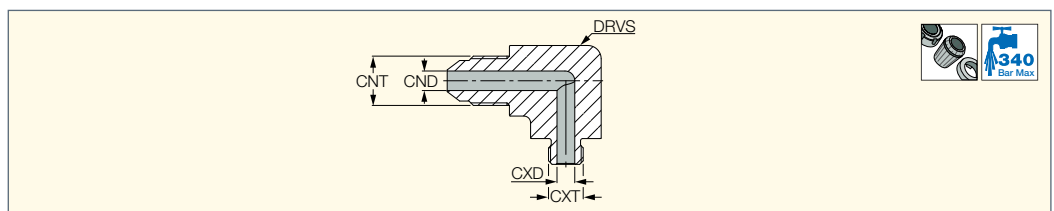
Designation	CXT	CNT	OAL	CND	CXD	DRVS <sup>(1)</sup>
JHP NIPPLE G1/8"-7/16"UNF	1/8"-28 BSPP	7/16"-20 UNF	28.75	4.00	4.00	14.3
JHP NIPPLE 1/8NPT-7/16UNF	1/8"-27 NPT	7/16"-20 UNF	31.00	4.80	4.40	12.7
JHP NIPPLE 1/4NPT-7/16UNF	1/4"-18 NPT	7/16"-20 UNF	36.00	4.40	4.40	14.3
JHP NIPPLE 5/16UNF-7/16UNF	5/16"-24 UNF	7/16"-20 UNF	29.50	4.40	4.00	12.7

<sup>(1)</sup> Torque key size

### Accessories

#### JHP ELBOW

High-Pressure Adaptation Elbow




Designation	CNT	CND	CXT	CXD	DRVS <sup>(2)</sup>
JHP ELBOW TUB3/16-5/16UNF <sup>(1)</sup>	-	3.10	5/16"-24 UNF	4.00	12.7
JHP ELBOW 90-5/16-7/16UNF	7/16"-20 UNF	4.40	5/16"-24 UNF	4.00	12.7
JHP ELBOW 90-G1/8-7/16UNF	7/16"-20 UNF	4.40	1/8"-28 BSPP	4.00	15.9

<sup>(1)</sup> For connection to a simple 3/16" stainless or copper tube

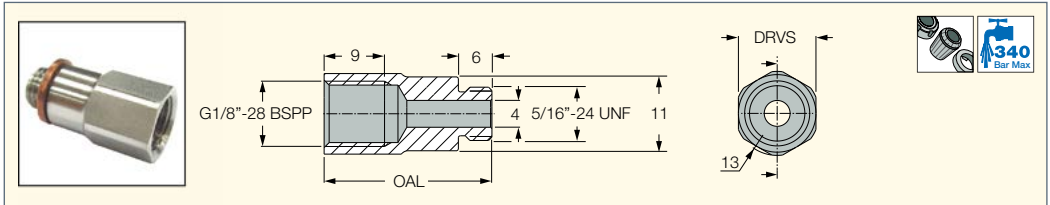
<sup>(2)</sup> Torque key size

#### Spare Parts

Designation	
JHP ELBOW 90-5/16-7/16UNF	JHP COPPER SEAL 5/16"-2.5
JHP ELBOW 90-G1/8-7/16UNF	JHP COPPER SEAL 1/8"

**Accessories**

**JHP CONNECTOR**  
High-Pressure Connector

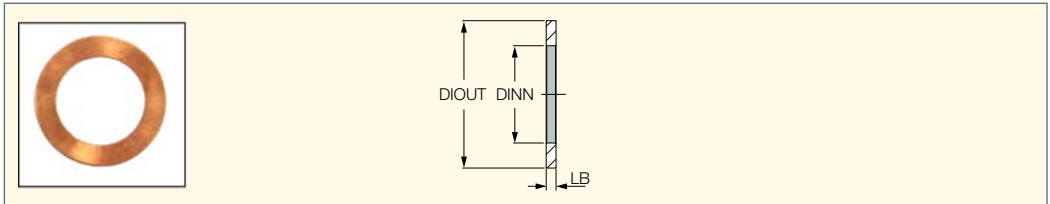


Designation	OAL	DRVS <sup>(1)</sup>
JHP CONECTOR 5/16"-G1/8"	25.00	12.0

<sup>(1)</sup> Torque key size

**Accessories**

**JHP COPPER SEAL**  
High-Pressure Copper Seal

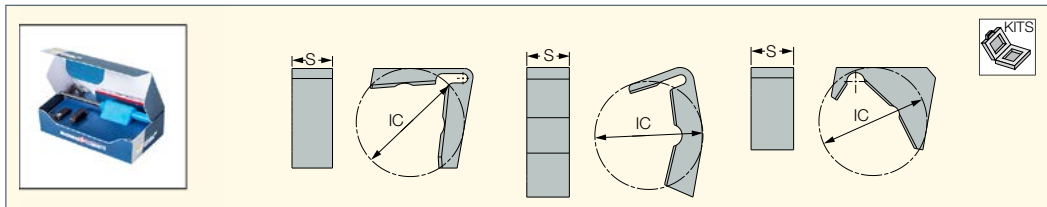


Designation	DIOUT	DINN	LB
JHP COPPER SEAL 5/16"-2.5	9.40	8.00	2.50
JHP COPPER SEAL 5/16"	11.90	8.15	1.35
JHP COPPER SEAL 1/8"	15.00	10.00	1.00





**AD-SET**  
Pocket Reducer Adapter  
for Turning Inserts



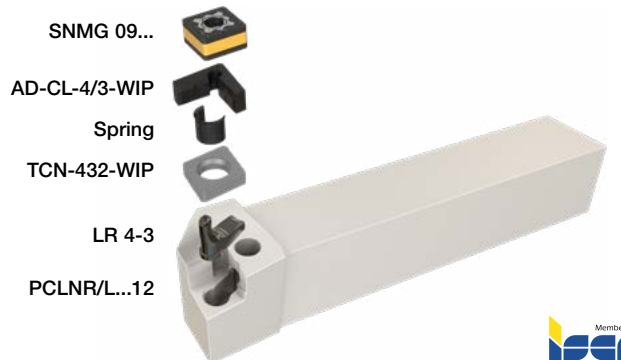
Designation	IC	S
AD-CL-4/3-WIP-SET	12.70	4.76
AD-CL-S-4/3-WIP-SET	12.70	4.76
AD-CL-4/3-SET	12.70	4.76
AD-CL-4/3-W-SET	12.70	4.76
AD-CL-4/3X SET	12.70	4.76
AD-SS-4/3-SET	12.70	4.76
AD-WL-4/3-SET	12.70	4.76
AD-CL-6/5IQ-SET	19.00	5.60

• Tools with K-type coolant cannot be used for facing applications

Toolholder	Set Designation	Item No.	Pocket Size Reducer	
			From	To
	<b>AD-CL-4/3-SET</b> LR 4-3 + AD-CL-4/3	3351719	CNMG 12...	CNMG 09...
	<b>AD-CL-4/3-W-SET</b> LR 4-3 + AD-CL-W-4/3	3362999	CNMG 12...	WNMG 06...
	<b>AD-CL-4/3X-SET</b> LR 4-3X + AD-CL-4/3X + TCN 4/3X	3362630	CNMG 12...	CXMG 09...
	<b>AD-WL-4/3-SET</b> LR 4-3 + AD-WL-4/3	3363000	WNMG 08...	WNMG 06...
	<b>AD-SS-4/3-SET</b> LR 4-3 + AD-SS-4/3	3364103	SNMG 12...	SNMG 09...
	<b>AD-CL-6/5IQ-SET</b> LR 6/5IQ + AD-CL-6/5IQ + TCX 6/5IQ	3364102	CNMG 19...	COMG 16...
	<b>AD-CL-4/3-WIP-SET</b> LR 4-3 + AD-CL-4/3-WIP + TCN-432-WIP	3373957	CNMG 12...	CNMG 09...
	<b>AD-CL-S-4/3-WIP-SET</b> LR 4-3 + AD-CL-4/3-WIP + TCN-432-WIP	3382096	SNMG 12...	SNMG 09...

**Spare Parts**

Designation			
AD-CL-4/3-WIP-SET	LR 4/3	HW 3.0/5	TCN-432-WIP
AD-CL-S-4/3-WIP-SET	LR 4/3	HW 3.0/5	TCN-432-WIP
AD-CL-4/3-SET	LR 4/3	HW 3.0/5	
AD-CL-4/3-W-SET	LR 4/3	HW 3.0/5	
AD-CL-4/3X SET	LR 4/3X	HW 3.0/5	TCN 4/3X
AD-WL-4/3-SET	LR 4/3	HW 3.0/5	
AD-CL-6/5IQ-SET	LR 6/5IQ		TCX 6/5IQ



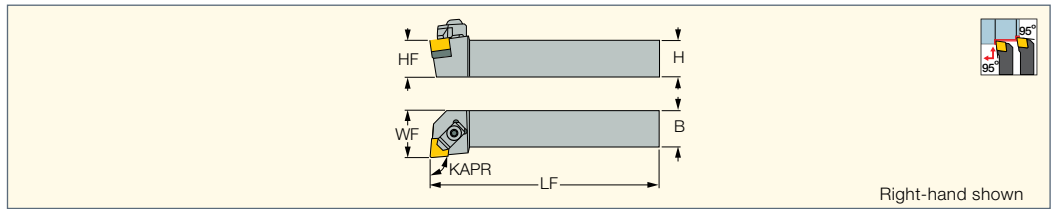


## Tools for Ceramic Inserts

### **ISOTURN**

#### **CCLNR/L**

Clamp Lock Tools Carrying Negative 80° Rhombic Ceramic Inserts



Designation	H	HF	B	LF	WF	KAPR <sup>(1)</sup>	Insert
<b>CCLNR 2020K-12CEA</b>	20.0	20.0	20.0	125.00	25.00	95.0	CNGN 1204
<b>CCLNR/L 2525M-12CEA</b>	25.0	25.0	25.0	150.00	32.00	95.0	CNGN 1204

<sup>(1)</sup> Tool cutting edge angle

For inserts, see pages: CNGN-Ceramic (216)

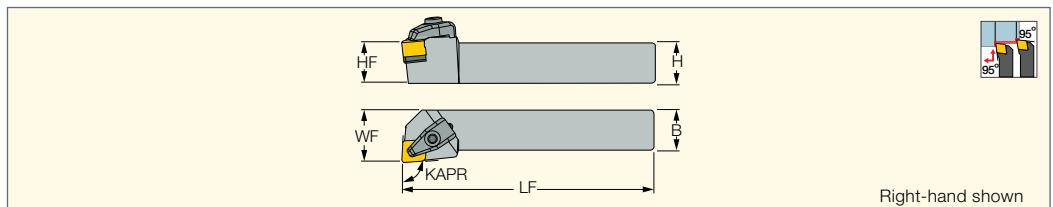
#### Spare Parts

Designation					
<b>CCLNR/L</b>	S 48	HW 4.0	BCL 6 CLAMP	SR M6X1X25ISO7380	SR M5X0.8X10

### **ISOTURN**

#### **TCLNR/L-CH**

95° Lead Angle Tools Carrying Negative CNGX 80° Rhombic Ceramic Dimpled Inserts



Designation	H	HF	B	LF	WF	KAPR <sup>(1)</sup>	Insert						
<b>TCLNR/L 2525M-12CH</b>	25.0	25.0	25.0	150.00	32.00	95.0	CNGX 1207...T	S 48	SR M5X0.8X10	CCL 4	KSP 5	CSC 4	HW 4.0

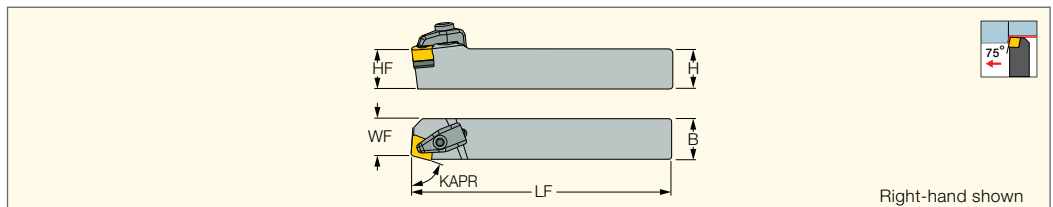
<sup>(1)</sup> Tool cutting edge angle

For inserts, see pages: CNGX-Ceramic (217)

### **ISOTURN**

#### **TCBNR/L-CH**

75° Lead Angle Toolholders Using the 100° Corner of CNGX 80° Negative Rhombic Ceramic Dimpled Inserts



Designation	H	HF	B	LF	WF	KAPR <sup>(1)</sup>	Insert						
<b>TCBNR/L 2525M-12CH</b>	25.0	25.0	25.0	150.00	22.00	75.0	CNGX 1207...T	S 48	SR M5X0.8X10	CCL 4	KSP 5	CSC 4	HW 4.0

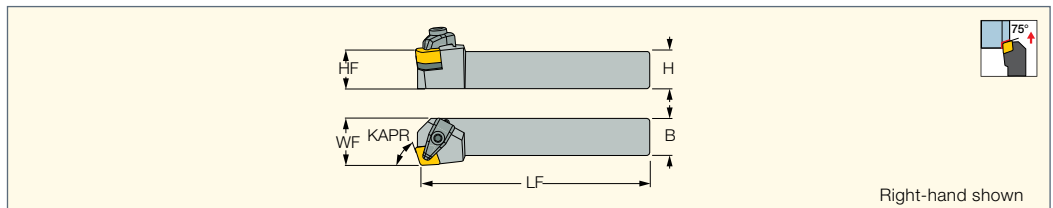
<sup>(1)</sup> Tool cutting edge angle

For inserts, see pages: CNGX-Ceramic (217)

### **ISOTURN**

#### **TCKNR/L-CH**

75° Lead Angle Tools Carrying the 100° Corner of CNGX 80° Negative Rhombic Ceramic Dimpled Inserts for Facing



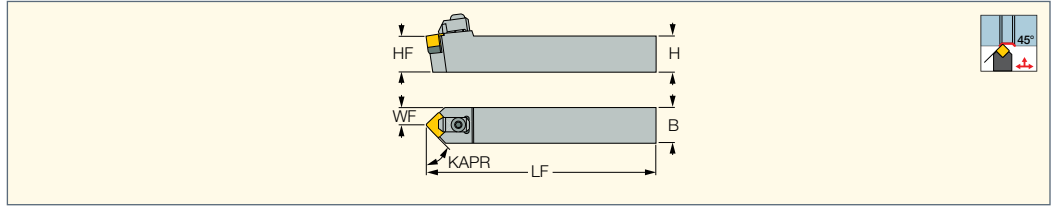
Designation	H	HF	B	LF	WF	KAPR <sup>(1)</sup>	Insert						
<b>TCKNL 2525M-12CH</b>	25.0	25.0	25.0	150.00	32.00	75.0	CNGX 1207...T	S 48	SR M5X0.8X10	CCL 4	KSP 5	CSC 4	HW 4.0

<sup>(1)</sup> Tool cutting edge angle

For inserts, see pages: CNGX-Ceramic (217)

**ISOTURN**

**CSDNN-CE/CEA**  
45° Lead Angle Tools Carrying  
Square Ceramic Inserts



Designation	H	HF	B	LF	WF	KAPR <sup>(1)</sup>	Insert
CSDNN 2020K-12CEA	20.0	20.0	20.0	125.00	10.00	45.0	SNGN 1204
CSDNN 2525M-12CEA	25.0	25.0	25.0	150.00	12.50	45.0	SNGN 1204

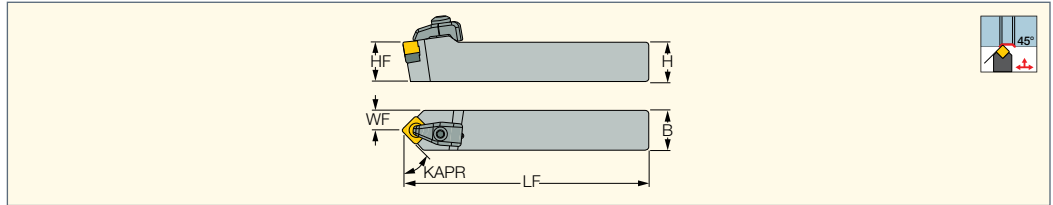
<sup>(1)</sup> Tool cutting edge angle  
For inserts, see pages: SNGN-Ceramic (217)

**Spare Parts**

Designation						
CSDNN 2020K-12CEA	S 40 (SEAT)	SR M5X0.8X10	BCL 6 CLAMP	SR M6X1X25ISO7380	HW 4.0	
CSDNN 2525M-12CEA	S 40 (SEAT)	SR M5X0.8X10	BCL 6 CLAMP	SR M6X1X25ISO7380	HW 4.0	HW 3.0

**ISOTURN**

**TSDNN-CH**  
45° Lead Angle Tools Carrying  
Square Ceramic Dimpled Inserts

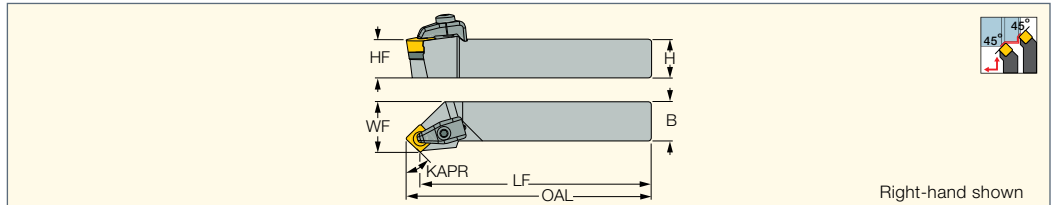


Designation	H	HF	B	LF	WF	KAPR <sup>(1)</sup>						
TSDNN 2525M-12CH	25.0	25.0	25.0	150.00	12.50	45.0	S 40 (SEAT)	SR M5X0.8X10	CCL 4	KSP 5	CSC 4	HW 4.0

<sup>(1)</sup> Tool cutting edge angle  
For inserts, see pages: SNGX-Ceramic (218)

**ISOTURN**

**TSSNR/L-CH**  
45° Lead Angle Tools Carrying  
Square Ceramic Dimpled Inserts  
for Longitudinal and Face Turning



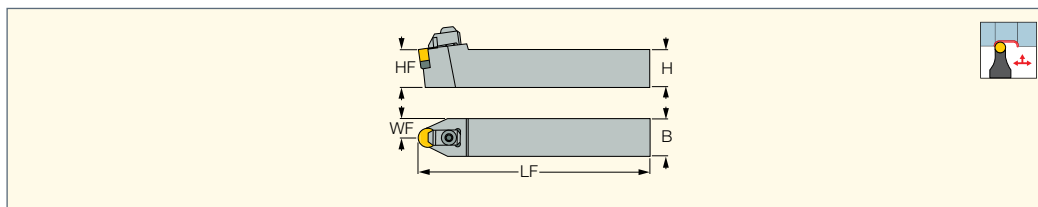
Designation	H	HF	B	OAL	WF	KAPR <sup>(1)</sup>	Insert	LF						
TSSNR/L 2525M-12CH	25.0	25.0	25.0	150.00	32.00	45.0	SNGX 1207..T	141.52	S 40 (SEAT)	SR M5X0.8X10	CCL 4	KSP 5	CSC 4	HW 4.0

<sup>(1)</sup> Tool cutting edge angle  
For inserts, see pages: SNGX-Ceramic (218)

**ISOTURN**

**CRDNN**

Clamp Lock Neutral Tools  
Carrying Round Negative  
Ceramic Inserts



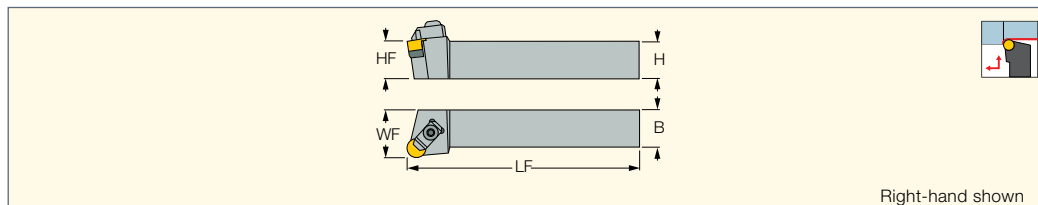
Designation	H	HF	B	LF	WF	Insert					
<b>CRDNN 2525M-12CE</b>	25.0	25.0	25.0	150.00	12.50	RNGN 120700	S 43	SR M5X0.8X10	BCL 6 CLAMP	SR M6X1X25ISO7380	HW 4.0
<b>CRDNN 2525M-12CEA</b>	25.0	25.0	25.0	150.00	12.50	RNGN 120400	S 43	SR M5X0.8X10	BCL 6 CLAMP	SR M6X1X25ISO7380	HW 4.0
<b>CRDNN 3225P-12CE</b>	32.0	32.0	25.0	170.00	12.50	RNGN 120700					

For inserts, see pages: RNGN-Ceramic (220)

**ISOTURN**

**CRGNR/L**

Clamp Lock Tools Carrying  
Round Negative Ceramic Inserts



Designation	H	HF	B	LF	WF	Insert					
<b>CRGNR/L 2525M-12CE</b>	25.0	25.0	25.0	150.00	32.00	RNGN 120700	S 43	SR M5X0.8X10	BCL 6 CLAMP	SR M6X1X25ISO7380	HW 4.0
<b>CRGNR/L 2525M-12CEA</b>	25.0	25.0	25.0	150.00	32.00	RNGN 120400	S 43	SR M5X0.8X10	BCL 6 CLAMP	SR M6X1X25ISO7380	HW 4.0
<b>CRGNR/L 3225P-12CE</b>	32.0	32.0	25.0	170.00	32.00	RNGN 120700	S 43	SR M5X0.8X10	BCL 6 CLAMP	SR M6X1X25ISO7380	HW 4.0

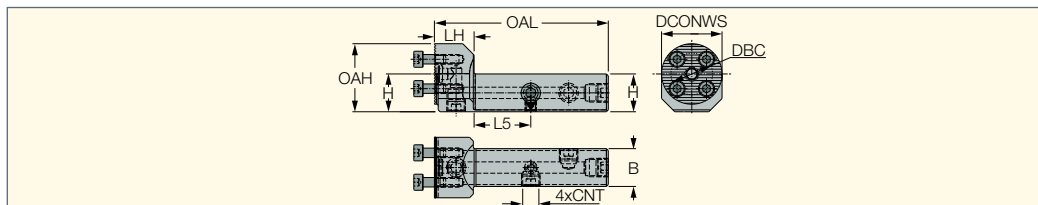
For inserts, see pages: RNGN-Ceramic (220)

**Straight Shank**

**ISOTURN**

**SH-S#-N-AVC**

Square shank with  
serrated connection



Designation	DCONWS	LH	OAH	OAL	H	B	DBC	L5	CNT
<b>SH-S2020-N-AVC-D20-JHP-MC</b>	20.00	21.0	30.00	92.00	20.0	20.0	13.00	30.00	G 1/8
<b>SH-S2020-N-AVC-D25-JHP-MC</b>	25.00	21.0	32.50	92.00	20.0	20.0	16.00	30.00	G 1/8
<b>SH-S2020-N-AVC-D32-JHP-MC</b>	32.00	21.0	36.00	92.00	20.0	20.0	22.00	30.00	G 1/8
<b>SH-S2525-N-AVC-D25-JHP-MC</b>	25.00	21.0	37.50	107.00	25.0	25.0	16.00	36.00	G 1/8
<b>SH-S2525-N-AVC-D32-JHP-MC</b>	32.00	21.0	41.00	107.00	25.0	25.0	22.00	36.00	G 1/8
<b>SH-S2525-N-AVC-D40-JHP-MC</b>	40.00	21.0	45.00	107.00	25.0	25.0	28.00	36.00	G 1/8
<b>SH-S3232-N-AVC-D32-JHP-MC</b>	32.00	21.0	48.00	152.00	32.0	32.0	22.00	-	G 1/8
<b>SH-S3232-N-AVC-D40-JHP-MC</b>	40.00	26.0	52.00	152.00	32.0	32.0	28.00	-	G 1/8
<b>SH-S4040-N-AVC-D40-JHP-MC</b>	40.00	26.0	60.00	200.00	40.0	40.0	28.00	-	G 1/8

For tools, see pages: AVC-DDUNR/L (97) • AVC-DVUNR/L (97) • AVC-GAIR/L (347) • AVC-GEAIR/L (346) • AVC-PCLNR/L (96) • AVC-PCLXR/L (96)  
• AVC-SCLCR/L (95) • AVC-SDUCR/L (95) • AVC-SVLCR/L (96) • AVC-SVUCR/L (95)

**Spare Parts**

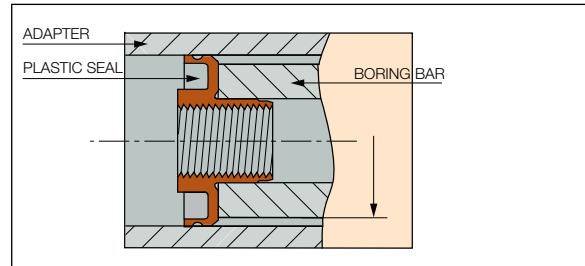
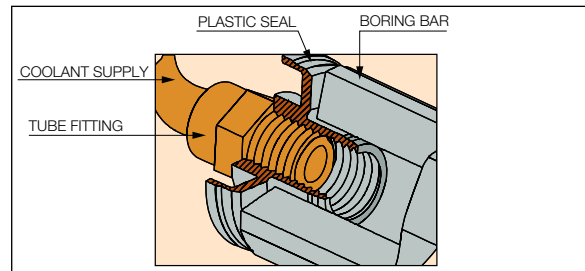
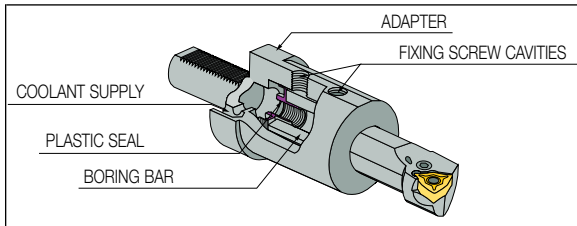
Designation					
<b>SH-S2020-N-AVC-D20-JHP-MC</b>	SR M3.5X10 DIN912	SR M6X6 DIN913 TL360	HW 2.5	OR 5.6X1.8 NBR	PLG G1/8 TL360
<b>SH-S2020-N-AVC-D25-JHP-MC</b>	SR M4X12DIN912	SR M6X6 DIN913 TL360	HW 3.0	OR 5.6X1.8 NBR	PLG G1/8 TL360
<b>SH-S2020-N-AVC-D32-JHP-MC</b>	SR M5X12 DIN912	SR M6X6 DIN913 TL360	HW 4.0	OR 5.6X1.8 NBR	PLG G1/8 TL360
<b>SH-S2525-N-AVC-D25-JHP-MC</b>	SR M4X12DIN912	SR M6X6 DIN913 TL360	HW 3.0	OR 5.6X1.8 NBR	PLG G1/8 TL360
<b>SH-S2525-N-AVC-D32-JHP-MC</b>	SR M5X12 DIN912	SR M6X6 DIN913 TL360	HW 4.0	OR 5.6X1.8 NBR	PLG G1/8 TL360
<b>SH-S2525-N-AVC-D40-JHP-MC</b>	SR M6X16 DIN912	SR M6X6 DIN913 TL360	HW 5.0	OR 5.6X1.8 NBR	PLG G1/8 TL360

## ISOTURN Boring Bars

**ISCAR** boring bars are equipped with internal coolant. A unique plastic seal is supplied for insertion into the channel which:

- Features a threaded tube fitting connection
- Performs a sealing role while clamped in a cylindrical adapter
- Requires no re-threading after shortening the bar

This unique design is a simple and versatile solution for installing coolant supply and extends tool life, improves chip flow and machining reliability.

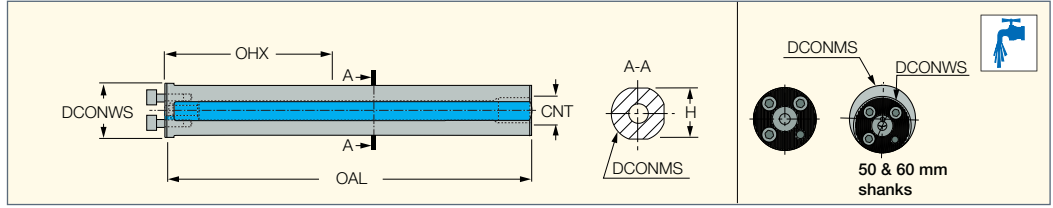


**Straight Shank**

**ISOTURN**

**SH-D**

Steel boring bars with serrated connection for AVC Heads







Designation	DCONWS	DCONMS	OAL	OHX <sup>(1)</sup>	CNT	H	BMC <sup>(2)</sup>
SH-D16-4D-A	16.00	16.00	105.00	44.0	UNC-2B 3/8"-16	15.0	S
SH-D20-4D-A	20.00	20.00	140.00	60.0	UNFC-2B 3/8"-24	18.0	S
SH-D25-4D-A	25.00	25.00	200.00	80.0	UNF-2B 1/2"-20	23.0	S
SH-D32-4D-A	32.00	32.00	218.00	96.0	UNF-2B 1/2"-20	29.0	S
SH-D40-4D-A	40.00	40.00	283.00	128.0	UNF-2B 1/2"-20	36.0	S
SH-D50-4D-40-A	40.00	50.00	368.00	168.0	UNF-2B 1/2"-20	46.0	S
SH-D60-4D-40-A	40.00	60.00	468.00	208.0	UNF-2B 1/2"-20	57.0	S

<sup>(1)</sup> Maximum overhang

<sup>(2)</sup> S-steel body, H-solid carbide body

For tools, see pages: AVC-D-SIR/L (707) • AVC-DDUNR/L (97) • AVC-DVUNR/L (97) • AVC-GAIR/L (347) • AVC-GEAIR/L (346) • AVC-PCLNR/L (96) • AVC-PCLXR/L (96) • AVC-SCLCR/L (95) • AVC-SDUCR/L (95) • AVC-SVLCR/L (96) • AVC-SVUCR/L (95)

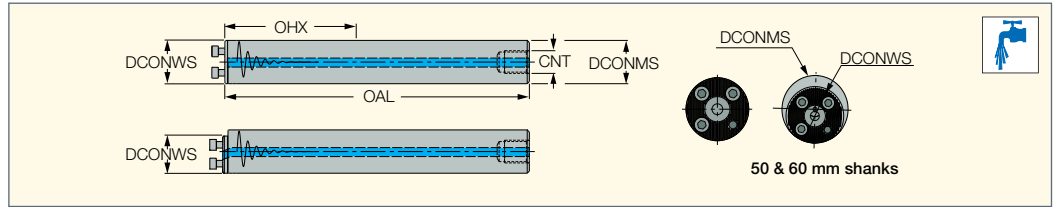
**Spare Parts**

Designation				
SH-D16-4D-A	SR M3X10DIN912	HW 2.5	PL 16	
SH-D20-4D-A		HW 2.5	PL 20	OR 5.6X1.8 NBR
SH-D25-4D-A	SR M4X12DIN912	HW 3.0	PL 25	OR 5.6X1.8 NBR
SH-D32-4D-A	SR M5X12 DIN912	HW 4.0	PL 32	OR 5.6X1.8 NBR
SH-D40-4D-A	SR M6X16 DIN912	HW 5.0	PL 40	OR 5.6X1.8 NBR
SH-D50-4D-40-A	SR M6X16 DIN912	HW 5.0	PL 40	OR 5.6X1.8 NBR
SH-D60-4D-40-A	SR M6X16 DIN912	HW 5.0	PL 40	OR 5.6X1.8 NBR



**AV-D**

Anti-Vibration Bars with Through Coolant for Interchangeable Turning Heads



Designation	DCONWS	DCONMS	OAL	OHN <sup>(1)</sup>	OHX <sup>(2)</sup>	CNT	BMC <sup>(3)</sup>	CP <sup>(4)</sup>
AV-D16-7D-C	16.00	16.00	156.30	55.0	92.0	G1/8	S	30
AV-D16-10D-E	16.00	16.00	204.30	96.0	140.0	-	H	30
AV-D20-7D-C	20.00	20.00	200.30	70.0	120.0	G1/4	S	30
AV-D20-10D-E	20.00	20.00	260.30	120.0	180.0	-	H	30
AV-D25-7D-C	25.00	25.00	257.50	88.0	155.0	G1/4	S	40
AV-D25-10D-C	25.00	25.00	332.50	155.0	230.0	G1/4	S	40
AV-D32-7D-C	32.00	32.00	323.00	120.0	192.0	G3/8	S	50
AV-D32-10D-C	32.00	32.00	419.00	192.0	288.0	G3/8	S	50
AV-D40-7D-C	40.00	40.00	411.00	128.0	251.0	G1/2	S	70
AV-D40-10D-C	40.00	40.00	531.00	248.0	368.0	G1/2	S	70
AV-D50-7D-C	40.00	50.00	523.00	168.0	318.0	G1/2	S	70
AV-D50-10D-C	40.00	50.00	673.00	318.0	468.0	G1/2	S	70
AV-D60-7D-C	40.00	60.00	633.00	208.0	388.0	G3/4	S	70
AV-D60-10D-C	40.00	60.00	813.00	388.0	568.0	G3/4	S	70

• The bars can be shortened. For details, see table below

<sup>(1)</sup> Minimum overhang

<sup>(2)</sup> Maximum overhang

<sup>(3)</sup> S-steel body, H-solid carbide body


<sup>(4)</sup> Coolant pressure (Bar)

**For tools, see pages:** AVC-D-SIR/L (707) • AVC-DDUNR/L (97) • AVC-DVUNR/L (97) • AVC-GAIR/L (347) • AVC-GEAIR/L (346) • AVC-PCLNR/L (96) • AVC-PCLXR/L (96) • AVC-SCLCR/L (95) • AVC-SDUCR/L (95) • AVC-SVLCR/L (96) • AVC-SVUCR/L (95)

Bar Diameter DCONMS (mm)	Minimum Length After Shortening	
	OAL 7D (mm)	OAL 10D (mm)
16	100	- <sup>(1)</sup>
20	125	- <sup>(1)</sup>
25	155	255
32	190	320
40	240	410
50	305	520
60	380	630

<sup>(1)</sup> Cannot be shortened

**Spare Parts**

Designation	
AV-D16-7D-C	SR M3X10DIN912
AV-D16-10D-E	SR M3X10DIN912
AV-D20-7D-C	SR M3.5XL10-D5.5
AV-D20-10D-E	SR M3.5XL10-D5.5
AV-D25-7D-C	SR M4X12DIN912
AV-D25-10D-C	SR M4X12DIN912
AV-D32-7D-C	SR M5X12 DIN912
AV-D32-10D-C	SR M5X12 DIN912
AV-D40-7D-C	SR M6X16 DIN912
AV-D40-10D-C	SR M6X16 DIN912
AV-D50-7D-C	SR M6X16 DIN912
AV-D50-10D-C	SR M6X16 DIN912
AV-D60-7D-C	SR M6X16 DIN912
AV-D60-10D-C	SR M6X16 DIN912



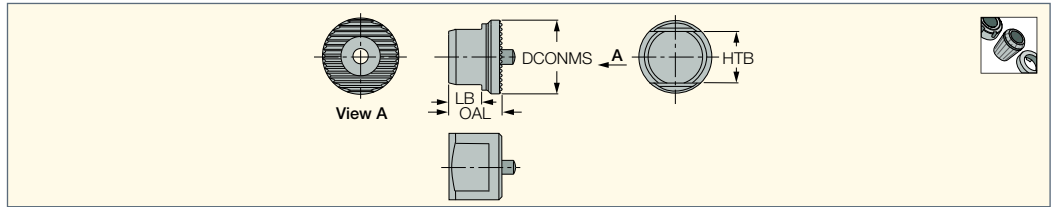


**ISOTURN**

**WHISPERLINE**  
ANTI-VIBRATION

**AVC-SET**

Center Height Set Up Device



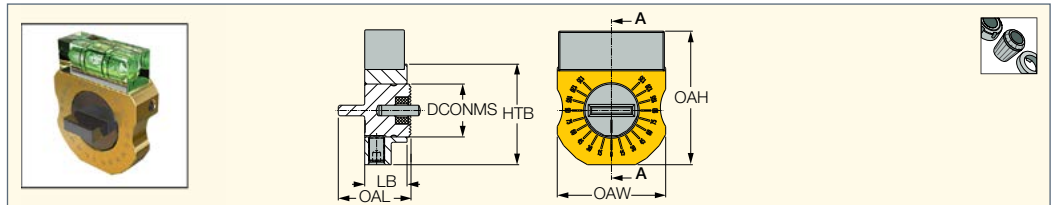
Designation	DCONMS	HTB	OAL	LB	Shank
AVC-SET 16-25	20.00	15.0	14.50	9.00	16, 20, 25
AVC-SET 32-60	29.00	16.0	17.50	11.50	32, 40, 50, 60

**ISOTURN**

**WHISPERLINE**  
ANTI-VIBRATION

**AVC-SET-LEV**

Center Height Set Up Device



Designation	DCONMS	HTB	OAL	LB	Shank	OAH	OAW
AVC-SET 16-25-LEV	20.00	38.0	27.50	16.00	16, 20, 25	50.50	41.00
AVC-SET 32-60-LEV	29.00	49.0	28.00	16.00	32, 40, 50, 60	59.00	49.00

**Features**

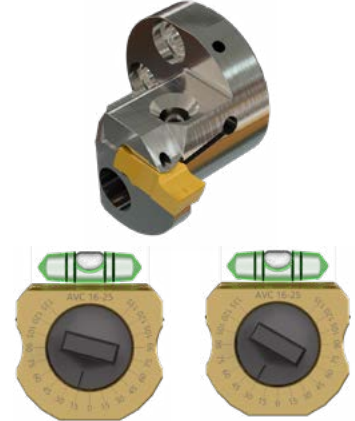
- Serrated head with magnetic core ensures fixed position of the shank.
- The setting head is simply connected to the shank without screws.
- The bubble level indicates the tool position and easily enables adjustment of the boring bar to the center.
- Significant time saving can be achieved by using this unique setting head.
- High setting accuracy can be easily attained and ensure excellent performance for **WHISPERLINE** boring bars.
- During tool assembly and the positioning process on the machine, please pay attention to the angle position selector. It must be set to the angle that is defined for each head - while most ISO turning heads have a 0° angle, **CUT-GRIP** heads need to be set to 15° or 30°.





ISO turning head



CUT-GRIP head

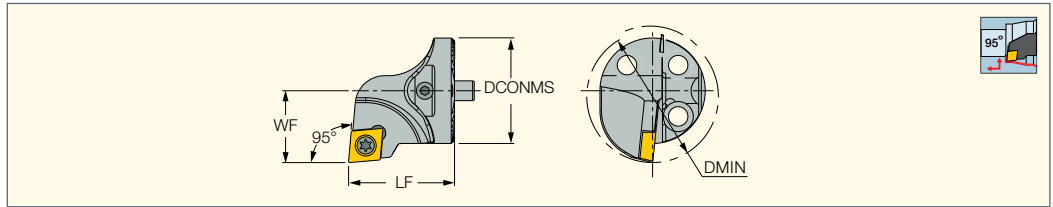


**Spare Parts**

Designation		
AVC-SET-LEV	SR M6X10 DIN1835B	HW 3.0

**AVC-SCLCR/L**

Interchangeable Boring Heads Carrying 80° Rhombic Inserts with 7° Clearance



Designation	WF	DCONMS	DMIN	LF	CSP <sup>(2)</sup>	MIID <sup>(3)</sup>				
<b>AVC-D16-SCLCR/L-06</b>	11.00	16.00	20.00	20.00	0	CCMT 2-1-14	SR 14-548*	T-7/5*		
<b>AVC-D20-SCLCR/L-09</b>	13.00	20.00	25.00	20.00	0	CCMT 3-2-M3M	SR 16-236*	T-15/5*		
<b>AVC-D25-SCLCR/L-09</b>	17.00	25.00	32.00	20.00	1	CCMT 3-2-M3M	SR 16-236*	T-15/5*		
<b>AVC-D32-SCLCR/L-09</b>	22.00	32.00	40.00	32.00	1	CCMT 3-2-M3M	SR 16-236*	T-15/5*		
<b>AVC-D40-SCLCR/L-12T <sup>(1)</sup></b>	27.00	40.00	50.00	38.00	1	CCMT 432-SM	SR 16-212*	T-20/5*	SR TC-4*	TCC 4-2*

<sup>(1)</sup> DMIN of 50mm shank is DMIN of requested head + 10mm • DMIN of 60mm shanks is DMIN of requested head + 20mm

<sup>(2)</sup> 0 - Without coolant supply, 1 - With coolant supply

<sup>(3)</sup> Master insert identification

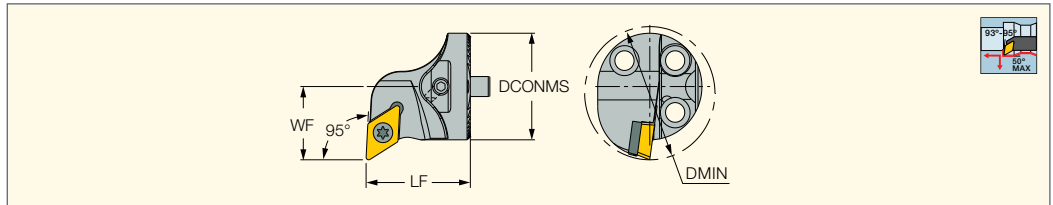
\* Optional, should be ordered separately

**For inserts, see pages:** CCET-WF (189) • CCGT-AF (212) • CCGT-AS (212) • CCGW/CCMT (CBN) (227) • CCGW/CCMW-2 (CBN) (228) • CCMT (PCD) (222) • CCMT-14 (188) • CCMT-F3M (186) • CCMT-M3M (186) • CCMT-M3P (185) • CCMT-PF (188) • CCMT-WG (189) • CCMT/CCGT (188) • CCMT/CCGT-SM (187)

**For holders, see pages:** AV-D (93) • C#-SH-E-JHP (630) • C#-SH-JHP (630) • SH-D (92) • SH-S#-N-AVC (90)

**AVC-SDUCR/L**

Interchangeable Boring Heads Carrying 55° Rhombic Inserts with 7° Clearance



Designation	WF	DCONMS	DMIN	LF	CSP <sup>(2)</sup>	MIID <sup>(3)</sup>				
<b>AVC-D16-SDUCR/L-07</b>	11.00	16.00	20.00	20.00	0	DCMT 2-1	SR 14-548*	T-7/5*		
<b>AVC-D20-SDUCR/L-11</b>	13.00	20.00	25.00	20.00	0	DCMT 3-2-14	SR 16-236 P*	T-15/5*		
<b>AVC-D25-SDUCR/L-11</b>	17.00	25.00	32.00	20.00	1	DCMT 3-2-14	SR 16-236 P*	T-15/5*		
<b>AVC-D32-SDUCR/L-11T</b>	22.00	32.00	40.00	32.00	1	DCMT 3-2-14	SR 16-236 P*	T-15/5*	SR TC-3P*	TDC 3-1P*
<b>AVC-D40-SDUCR/L-11T <sup>(1)</sup></b>	27.00	40.00	50.00	32.00	1	DCMT 3-2-14	SR 16-236 P*	T-15/5*	SR TC-3P*	TDC 3-1P*

<sup>(1)</sup> DMIN of 50mm shank is DMIN of requested head + 10mm • DMIN of 60mm shanks is DMIN of requested head + 20mm

<sup>(2)</sup> 0 - Without coolant supply, 1 - With coolant supply

<sup>(3)</sup> Master insert identification

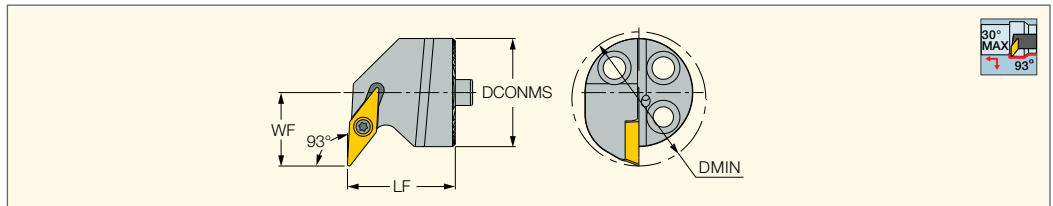
\* Optional, should be ordered separately

**For inserts, see pages:** DCET-WF (195) • DCGT-AF (213) • DCGT-AS (213) • DCGT-F1M-20P (192) • DCGW/DCMW-2 (CBN) (230) • DCMT (CBN) (230) • DCMT (PCD) (222) • DCMT-14 (194) • DCMT-CERMET (192) • DCMT-F3P (190) • DCMT-M3M (191) • DCMT/DCGT (194) • DCMT/DCGT-PF (193) • DCMT/DCGT-SM (194)

**For holders, see pages:** AV-D (93) • C#-SH-E-JHP (630) • C#-SH-JHP (630) • SH-D (92) • SH-S#-N-AVC (90)

**AVC-SVUCR/L**

Interchangeable Boring Heads Carrying 35° Rhombic Inserts with 7° Clearance



Designation	WF	DCONMS	DMIN	LF	CSP <sup>(1)</sup>	MIID <sup>(2)</sup>		
<b>AVC-D20-SVUCR/L-11</b>	16.00	20.00	27.00	20.00	0	CVMT 221-F3P	SR 14-560*	T-8/5*
<b>AVC-D25-SVUCR/L-11</b>	17.00	25.00	32.00	25.00	1	CVMT 221-F3P	SR 14-560*	T-8/5*

<sup>(1)</sup> 0 - Without coolant supply, 1 - With coolant supply

<sup>(2)</sup> Master insert identification

\* Optional, should be ordered separately

**For inserts, see pages:** VCGT-AS (211) • VCGT-F1M-20P (196) • VCMT-F3M (195) • VCMT-SM (197)

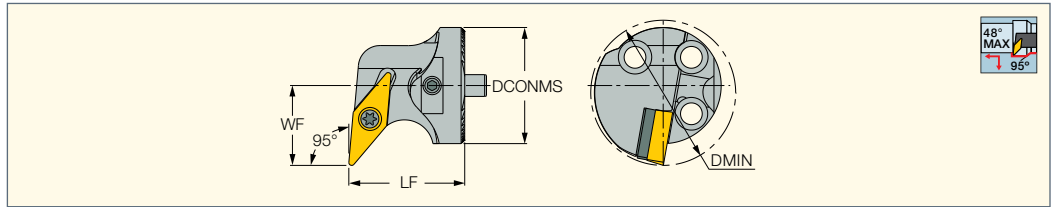
**For holders, see pages:** AV-D (93) • C#-SH-E-JHP (630) • C#-SH-JHP (630) • SH-D (92) • SH-S#-N-AVC (90)

**ISOTURN**

**WHISPERLINE**  
ANTI-VIBRATION

**AVC-SVLCR/L**

Interchangeable Boring Heads Carrying 35° Rhombic Inserts with 7° Clearance



Designation	WF	DCONMS	DMIN	LF	CSP <sup>(2)</sup>	MIID <sup>(3)</sup>				
<b>AVC-D32-SVLCR/L-16T</b>	22.00	32.00	40.00	32.00	1	VCMT 332-F3M	SR 16-236 P*	T-15/5*	SR TC-3P*	TVC 3-1P*
<b>AVC-D40-SVLCR/L-16T <sup>(1)</sup></b>	27.00	40.00	50.00	32.00	1	VCMT 332-F3M	SR 16-236 P*	T-15/5*	SR TC-3P*	TVC 3-1P*

• For positive "V" insert geometry with radius 1.2mm please use set: TVC 3-76 \* 3312824

\* Optional, should be ordered separately <sup>(1)</sup> DMIN of 50mm shank is DMIN of requested head + 10mm • DMIN of 60mm shanks is DMIN of requested head + 20mm

<sup>(2)</sup> 0 - Without coolant supply, 1 - With coolant supply

<sup>(3)</sup> Master insert identification

**For inserts, see pages:** VCGT (PCD) (223) • VCGT-AS (211) • VCGT-DW (PCD) (223) • VCGW-2 (CBN) (232) • VCMT (CBN) (222) • VCMT-14 (198)

• VCMT-F3M (195) • VCMT-F3P (195) • VCMT-FPC-CERMET (196) • VCMT-M3M (196) • VCMT-SM (197) • VCMW (198)

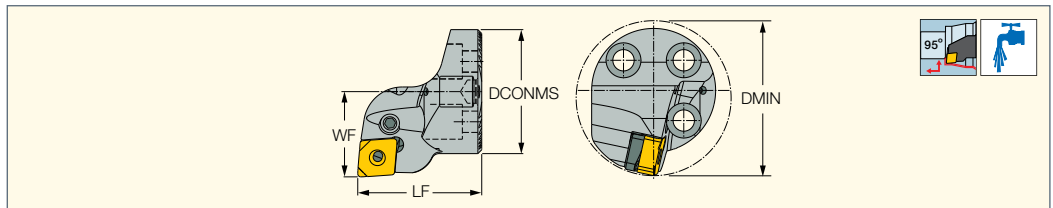
**For holders, see pages:** AV-D (93) • C#-SH-E-JHP (630) • C#-SH-JHP (630) • SH-D (92) • SH-S#-N-AVC (90)

**FLASHTURN**  
ECO LINE

**WHISPERLINE**  
ANTI-VIBRATION

**AVC-PCLNR/L**

Interchangeable Boring Heads Carrying 80° Rhombic Inserts



Designation	WF	DCONMS	DMIN	LF	MIID <sup>(1)</sup>							
<b>AVC-D20-PCLNR/L-09</b>	13.00	20.00	25.00	26.00	CNMG 09			LR 3S	SR 117-2009	HW 2.0		
<b>AVC-D25-PCLNR/L-09</b>	17.00	25.00	32.00	28.00	CNMG 09			LR 3S	SR 117-2009	HW 2.0		
<b>AVC-D32-PCLNR/L-09</b>	22.00	32.00	40.00	32.00	CNMG 09	TCN 323	TCX 3 <sup>(a)</sup>	LR 3	SR 117-2014	HW 2.5	SP 3	PN 3-4

<sup>(1)</sup> Master insert identification

<sup>(a)</sup> For CNMX 0906.. (CNMX 34.) inserts

**For inserts, see pages:** CNMG-F3S (147) • CNGG-F3N (209) • CNMG-F3M (146) • CNMG-F3P (144) • CNMG-M3M (146) • CNMG-M3P (144)

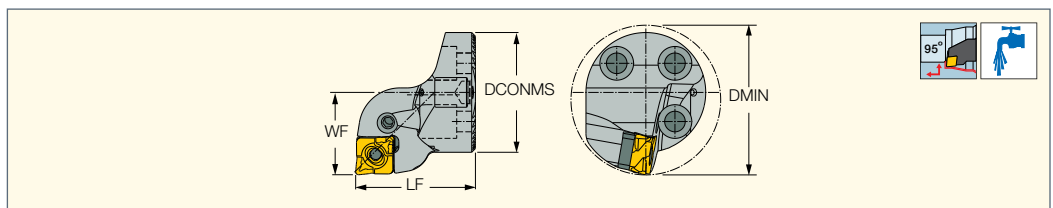
**For holders, see pages:** AV-D (93) • C#-SH-E-JHP (630) • C#-SH-JHP (630) • SH-D (92) • SH-S#-N-AVC (90)

**LOGIQ4TURN**  
POSITIVE DOUBLE-SIDED

**WHISPERLINE**  
ANTI-VIBRATION

**AVC-PCLXR/L**

Interchangeable Boring Heads Carrying 80° Rhombic Inserts



Designation	WF	DCONMS	DMIN	LF	MIID <sup>(2)</sup>							
<b>AVC-D20-PCLXR/L-09X</b>	13.00	20.00	25.00	26.00	CXMG 09		LR 3X SET	SR M6XL11.5V		T-8/5		
<b>AVC-D25-PCLXR/L-09X</b>	17.00	25.00	32.00	28.00	CXMG 09		LR 3X SET	SR M6XL11.5V		T-8/5		
<b>AVC-D32-PCLXR/L-09X</b>	22.00	32.00	40.00	32.00	CXMG 09	TSN 323	LR 3XL	SR 117-2014	HW 2.5/5		SP 3	PN 3-4
<b>AVC-D40-PCLXR/L-12X <sup>(1)</sup></b>	27.00	40.00	50.00	35.00	CXMG 12	TCNX 423	LR 4X	SR LCS 5	HW 3.0		SP 4	PN 3-4

<sup>(1)</sup> DMIN of 50mm shank is DMIN of requested head + 10mm • DMIN of 60mm shanks is DMIN of requested head + 20mm

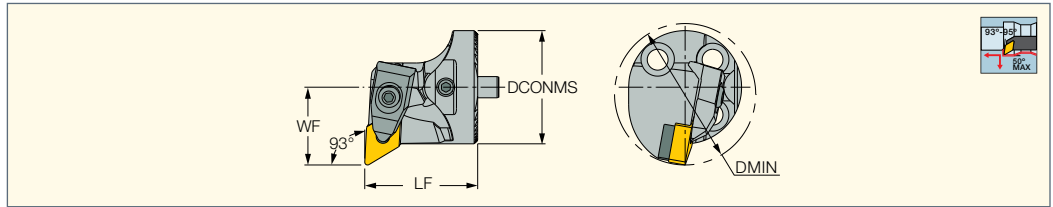
<sup>(2)</sup> Master insert identification

**For inserts, see pages:** CXMG-F3M (184) • CXMG-F3P (183) • CXMG-M3M (184) • CXMG-M3P (183)

**For holders, see pages:** AV-D (93) • C#-SH-E-JHP (630) • C#-SH-JHP (630) • SH-D (92) • SH-S#-N-AVC (90)

**AVC-DDUNR/L**

Interchangeable Boring Heads  
Carrying 55° Rhombic Inserts



Designation	WF	DCONMS	DMIN	LF	MIID <sup>(2)</sup>	CSP <sup>(3)</sup>							
<b>AVC-D32-DDUNR/L-11T</b>	22.00	32.00	40.00	32.00	DNMG 332-NF	1	RDT 3-2*	SR RC3*	SR 400851*	HW 2.5*	T-15/5*	LCGR-3*	KSP 3*
<b>AVC-D40-DDUNR/L-15T<sup>(1)</sup></b>	27.00	40.00	50.00	38.00	DNMG 442-F3M	1	RDT 433*	DLS 4*	SR 14-506*		T-15/5*	DLM 4*	DSP 4*

\* Optional, should be ordered separately <sup>(1)</sup> DMIN of 50mm shank is DMIN of requested head + 10mm • DMIN of 60mm shanks is DMIN of requested head + 20mm

<sup>(2)</sup> Master insert identification

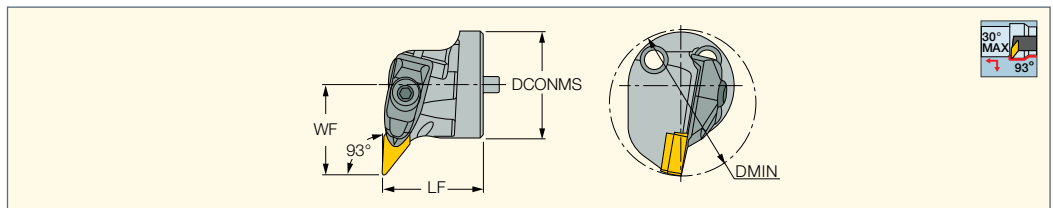
<sup>(3)</sup> 0 - Without coolant supply, 1 - With coolant supply

**For inserts, see pages:** DNGA-4 (CBN) (229) • DNGA-Ceramic (218) • DNGG-M3N (210) • DNMA (161) • DNMA (CBN) (228) • DNMG-F3M (157) • DNMG-F3P (156) • DNMG-F3S (157) • DNMG-GN (161) • DNMG-M3M (157) • DNMG-M3P (156) • DNMG-NF (158) • DNMG-NR (161) • DNMG-PF (159) • DNMG-VL (160) • DNMG-WG (159) • DNMG/DNGG-PP (160) • DNMG/DNGG-SF (159) • DNMG/DNGG-TF (160) • DNMM-NM (162) • DNMM-R3P (162)

**For holders, see pages:** AV-D (93) • C#-SH-E-JHP (630) • C#-SH-JHP (630) • SH-D (92) • SH-S#-N-AVC (90)

**AVC-DVUNR/L**

Interchangeable Boring Heads  
Carrying 35° Rhombic Inserts



Designation	WF	DCONMS	DMIN	LF	CSP	MIID <sup>(3)</sup>
<b>AVC-D40-DVUNR/L-16T<sup>(1)</sup></b>	34.00	40.00	56.00	38.00	1	VNMG 332-F3M

<sup>(1)</sup> DMIN of 50mm shank is DMIN of requested head + 10mm • DMIN of 60mm shanks is DMIN of requested head + 20mm

<sup>(2)</sup> 0 - Without coolant supply, 1 - With coolant supply

<sup>(3)</sup> Master insert identification

**For inserts, see pages:** VNGG-M3N (210) • VNMG-F3M (164) • VNMG-F3P (163) • VNMG-M3M (164) • VNMG-TF (166) • VNMG/VNGG-NF (165)

**For holders, see pages:** AV-D (93) • C#-SH-E-JHP (630) • C#-SH-JHP (630) • SH-D (92) • SH-S#-N-AVC (90)

**Spare Parts**

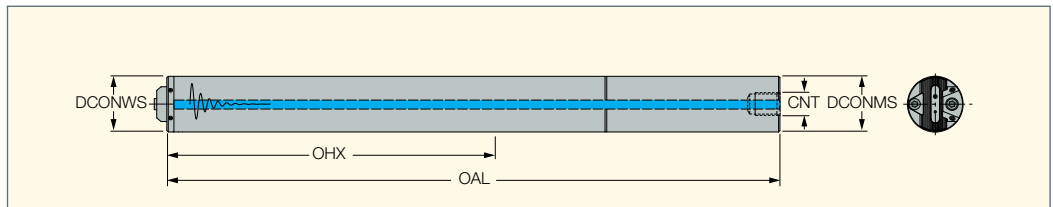
Designation						
<b>AVC-D40-DVUNL-16T</b>	DLM 3V	SR 10402267	HW 4.0	KSP 5	T-15/5	SR 35080I
<b>AVC-D40-DVUNR-16T</b>	DLM 3V*	SR 10402267*	HW 4.0*	KSP 5*	T-15/5*	SR 35080I*

\* Optional, should be ordered separately

**Straight Shank**

**AV-D-VH**

Anti-Vibration Bars with  
Through Coolant for  
Interchangeable Turning Heads



Designation	DCONMS	DCONWS	OAL	OHX <sup>(1)</sup>	CNT	CP <sup>(2)</sup>
<b>AV-D80-7D-C-VH</b>	80.00	80.00	880.00	515.0	G3/4"	70
<b>AV-D80-10D-C-VH</b>	80.00	80.00	1200.00	755.0	G3/4"	70

• The bars can be shortened. For details, see table below

<sup>(1)</sup> Maximum overhang

<sup>(2)</sup> Coolant pressure (Bar)

**For tools, see pages:** AVC-DDUNR/L-VH (98) • AVC-SDUCR/L-VH (98) • AVC-SVLCR/L-VH (98)

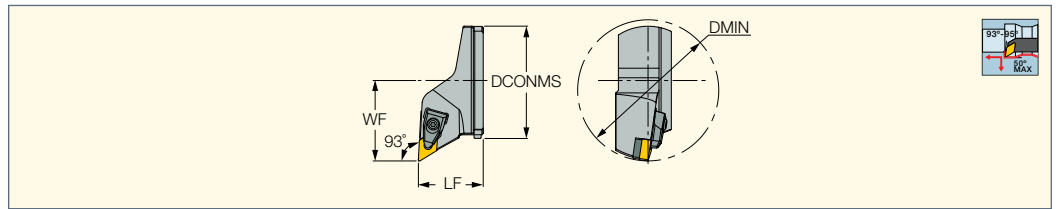
Bar Diameter	Minimum Length After Shortening	
DCONMS (mm)	AV-D80-7D-C-VH	AV-D80-10D-V-AV
80	630	630

**ISOTURN**

**WHISPERLINE**  
ANTI-VIBRATION

**AVC-DDUNR/L-VH**

Interchangeable Boring Heads  
Carrying 55° Rhombic Inserts



Designation	WF	DCONMS	DMIN	LF	MIID <sup>(1)</sup>
<b>AVC-D80-DDUNR/L-15T-VH</b>	57.00	77.00	100.00	46.00	DNMG 442-F3M

<sup>(1)</sup> Master insert identification

**For inserts, see pages:** DNGA-4 (CBN) (229) • DNGA-Ceramic (218) • DNMA (161) • DNMA (CBN) (228) • DNMG-F3M (157) • DNMG-F3P (156) • DNMG-F3S (157) • DNMG-GN (161) • DNMG-M3M (157) • DNMG-M3P (156) • DNMG-NF (158) • DNMG-NR (161) • DNMG-PF (159) • DNMG-WG (159) • DNMG/DNGG-PP (160) • DNMG/DNGG-TF (160) • DNMM-NM (162) • DNMM-R3P (162)

**For holders, see pages:** AV-D-VH (97)

**Spare Parts**

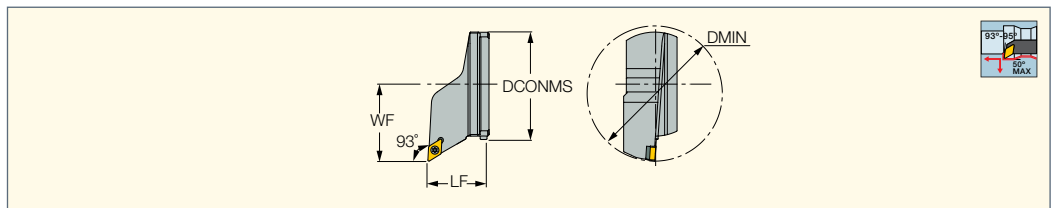
Designation								
<b>AVC-D80-DDUNL-15T-VH</b>	RDT 443	RDT 433	HW 3.0	SR 14-506	T-15/5	DSP 4	DLS 4	DLM 4

**ISOTURN**

**WHISPERLINE**  
ANTI-VIBRATION

**AVC-SDUCR/L-VH**

Interchangeable Boring  
Heads Carrying 55° Rhombic  
Inserts with 7° Clearance



Designation	WF	DCONMS	DMIN	LF	MIID <sup>(1)</sup>
<b>AVC-D80-SDUCR/L-11T-VH</b>	57.00	77.00	100.00	45.00	DCMT 11T304

<sup>(1)</sup> Master insert identification

**For inserts, see pages:** DCET-WF (195) • DCGT-AF (213) • DCGT-AS (213) • DCGW/DCMW-2 (CBN) (230) • DCMT (CBN) (230) • DCMT (PCD) (222) • DCMT-14 (194) • DCMT-CERMET (192) • DCMT-F3P (190) • DCMT-M3M (191) • DCMT/DCGT (194) • DCMT/DCGT-PF (193) • DCMT/DCGT-SM (194)

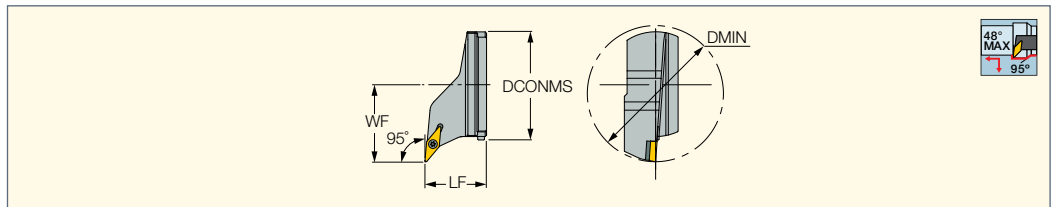
**For holders, see pages:** AV-D-VH (97)

**ISOTURN**

**WHISPERLINE**  
ANTI-VIBRATION

**AVC-SVLCR/L-VH**

Interchangeable Boring  
Heads Carrying 35° Rhombic  
Inserts with 7° Clearance



Designation	WF	DCONMS	DMIN	LF	MIID <sup>(1)</sup>				
<b>AVC-D80-SVLCR/L-16T-VH</b>	57.00	77.00	100.00	45.00	VCMT 160404	T-15/5	SR 16-236 P	TVC 3-1P	SR TC-3P

<sup>(1)</sup> Master insert identification

**For inserts, see pages:** VCGT (PCD) (223) • VCGT-AS (211) • VCGT-DW (PCD) (223) • VCGW-2 (CBN) (232) • VCMT (CBN) (222) • VCMT-14 (198) • VCMT-F3M (195) • VCMT-F3P (195) • VCMT-FPC-CERMET (196) • VCMT-M3M (196) • VCMT-SM (197) • VCMW (198)

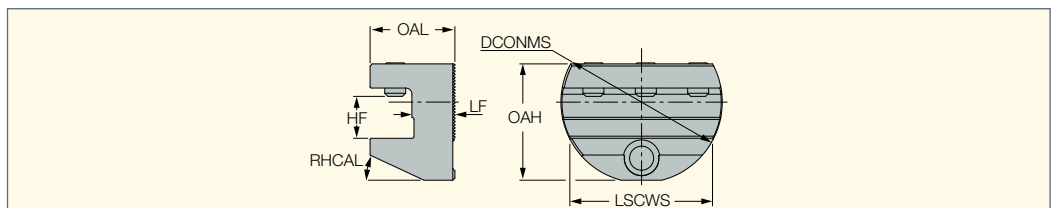
**For holders, see pages:** AV-D-VH (97)

**ISOTURN**

**WHISPERLINE**  
ANTI-VIBRATION

**AVC-D80-VH**

Perpendicular Adaptor for  
External Square-Shank Tools

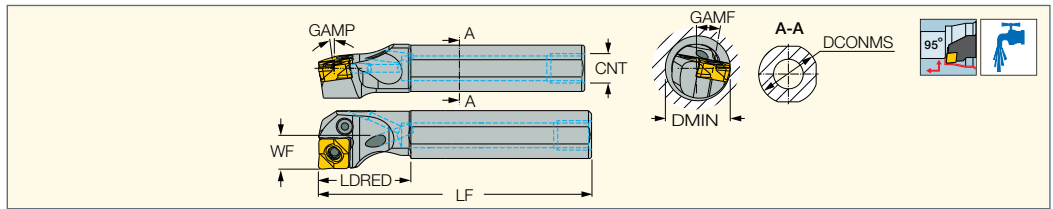


Designation	LSCWS	OAH	DCONMS	LF	HF	OAL	RHCAL
<b>AVC-D80-2020-80-VH</b>	67.80	55.50	77.00	20.50	20.0	40.50	25.0

**Spare Parts**

Designation	
<b>AVC-D80-VH</b>	SR M10X16 DIN913

**A-PCLXR/L**  
Lever Lock Boring Bars  
Carrying Negative CXMG  
80° Rhombic Inserts



Designation	DCONMS	LF	LDRED	WF	GAMP	GAMF	DMIN	CNT	Insert
A16Q PCLXR/L-09X	16.00	180.00	30.0	11.00	8.0	10.0	20.00	UNC 3/8"-16	CXMG 09..
A20R PCLXR/L-09X	20.00	200.00	30.0	13.00	5.0	10.0	25.00	UNC 3/8"-24	CXMG 09..
A25S PCLXR/L-09X	25.00	250.00	40.0	17.00	5.0	10.0	32.00	UNC 1/2"-20	CXMG 09..
A25R PCLXR/L-12X	25.00	200.00	40.0	17.00	6.0	9.0	32.00	UNF-2B 1/2"-20	CXMG 12..
A32T PCLXR/L-12X	32.00	300.00	48.0	22.00	6.0	9.0	40.00	UNF-2B 1/2"-20	CXMG 12..
A40U PCLXR/L-12X	40.00	350.00	50.0	27.00	6.0	10.0	50.00	UNF-2B 1/2"-20	CXMG 12..

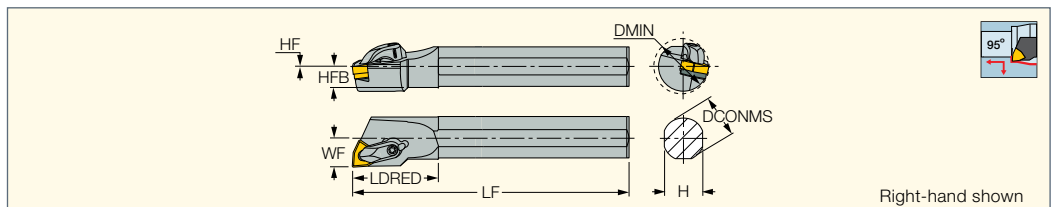
For inserts, see pages: CXMG-F3M (184) • CXMG-F3P (183) • CXMG-M3M (184) • CXMG-M3P (183)

**Spare Parts**

Designation								
A16Q PCLXR/L-09X	LR 3X SET	PL 16	SR M6XL11.5V	T-8/5				
A20R PCLXR/L-09X	LR 3X SET	PL 20	SR M6XL11.5V	T-8/5				
A25S PCLXR/L-09X	LR 3X SET	PL 25	SR M6XL11.5V	T-8/5				
A25R PCLXR/L-12X	LR 4MX	PL 25	SR 117-2010-S		HW 3.0			
A32T PCLXR/L-12X	LR 4MX	PL 32	SR 117-2010-S		HW 3.0			
A40U PCLXR/L-12X	LR 4X	PL 40	SR LCS 5		HW 3.0	TCNX 423	PN 3-4	SP 4

**ISOTURN**

**S-DWLNR/L**  
R-Clamp Boring Bars Carrying  
Negative Trigon Inserts



Designation	DCONMS	LF	LDRED	H	HFB	HF	WF	DMIN	Insert
S25T DWLNR/L-08	25.00	300.00	50.0	23.0	12.3	0.8	17.00	32.00	WNMG 0804
S32U DWLNR/L-08	32.00	350.00	55.0	29.0	15.8	1.3	22.00	40.00	WNMG 0804
S40V DWLNR/L-08	40.00	400.00	55.0	36.0	19.8	1.8	27.00	60.00	WNMG 0804

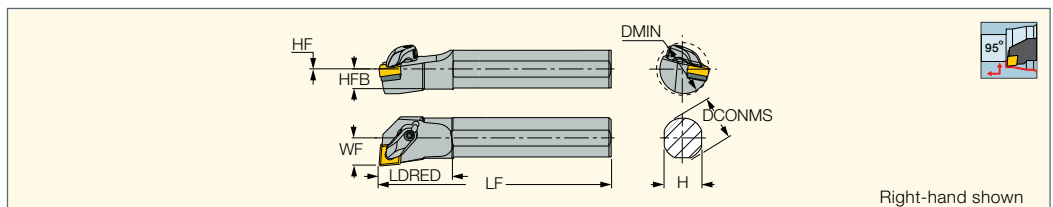
For inserts, see pages: WNMG-CERMET (136) • WNMG-F3S (138) • WNMG-F3P (135) • WNMG-M3P (135) • WNMG-F3M (137) • WNMG-M3M (138)  
• WNMG-TF (141) • WNMG-GN (141) • WNMG-NR (142) • WNMG-PP (140) • WNMG-VL (139) • WNMG-TNM (142) • WNMG-NF (139) • WNMM-NM (142)  
• WNMG-WF (140) • WNMA/WNMA-WG (143) • WNMG-WG (139) • WNGA-Ceramic (216) • WNGA-M3 (CBN) (224) • WNGA-MC/M6 (CBN) (224)

**Spare Parts**

Designation					
S-DWLNR/L	TWN 423	SP 4	LCGR-4	SR 10400270-25.5	T-15/5

**ISOTURN**

**S-DCLNR/L**  
R-Clamp Boring Bars Carrying  
Negative 80° Diamond Inserts



Designation	DCONMS	LF	LDRED	H	HFB	WF	DMIN	HF	Insert
S25R DCLNR-12	25.00	200.00	45.0	23.0	12.3	17.00	32.00	0.8	CNMG 1204..
S32T DCLNR/L-12	32.00	300.00	45.0	28.0	15.8	22.00	40.00	1.8	CNMG 1204..
S40U DCLNR/L-12	40.00	350.00	55.0	36.0	19.8	27.00	48.00	1.8	CNMG 1204..

For inserts, see pages: CNGA-J(CBN) (226) • CNGG-J(CBN) (227) • CNMG-CERMET (145) • CNMG-F3S (147) • CNMG-F3P (144) • CNMG-M3P (144)  
• CNMM-R3P (153) • CNMM-M4PW (152) • CNMG-F3M (146) • CNMG-M3M (146) • CNMG/CNGG-TF (150) • CNMG-GN (151) • CNMG-NR (151)  
• CNMG/CNGG-PP (150) • CNMG-VL (147) • CNMG/CNGG-SF (148) • CNMG-NF (148) • CNMG-WF (148) • CNMG-WG/NRW (149) • CNMA (149)  
• CNGA-Ceramic (217) • CNMG-Ceramic (216) • CNGA-2 (CBN) (226) • CNGA-4 (CBN) (225) • CNGG-M4HF/M4HM (CBN) (226)  
• CNMA-MW4 (CBN) (225) • CNMA-T/M1/WG (CBN) (225) • CNMA (PCD) (221)

**Spare Parts**

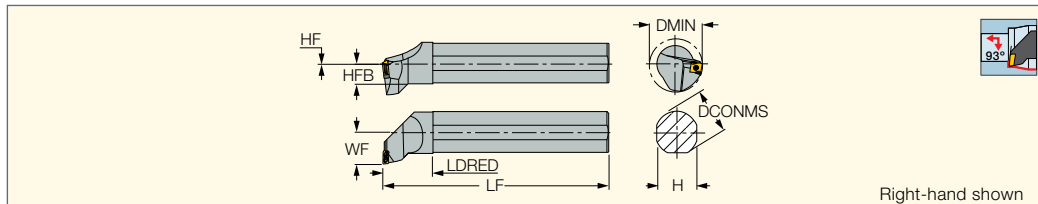
Designation					
S-DCLNR/L	TCN 423	SP 4	LCGR-4	SR 10400270-25.5	T-15/5





### S-SLANR/L-TANG

Boring Bars Carrying LNMX Tangentially Screw Clamped Inserts with 4 Cutting Edges for High Metal Removal Rates



Right-hand shown

Designation	DCONMS	LF	LDRED	H	HFB	WF	DMIN	HF	Insert
S25T SLANR/L-11 TANG	25.00	300.00	40.0	23.0	1.0	17.00	53.00	1.0	LNMX 1104..
S32U SLANR-11 TANG	32.00	350.00	45.0	30.0	1.0	22.00	53.00	1.0	LNMX 1104..
S40V SLANR/L-11 TANG	40.00	400.00	60.0	37.0	1.5	27.00	53.00	1.5	LNMX 1104..
S50U SLANR/L-15 TANG	50.00	350.00	60.0	47.0	1.5	37.00	85.00	1.5	LNMX 1506..

• Right-hand inserts for left-hand bars. Left-hand inserts for right-hand bars. •  $a_p$  max for facing: LNMX 11-2.8 mm, LNMX 15-3.8 mm.

For inserts, see pages: LNMX-HM (181) • LNMX-HT (180) • LNMX-WG (181)

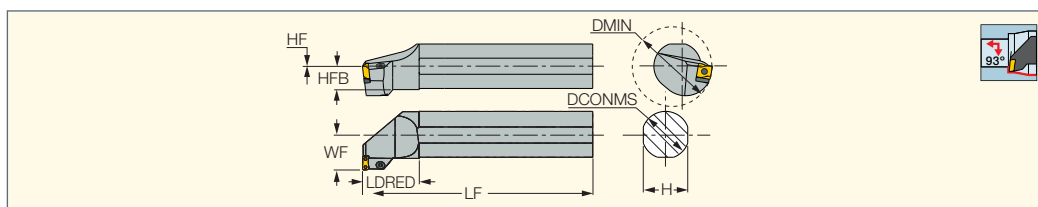
#### Spare Parts

Designation							
S25T SLANR/L-11 TANG	TLN 11R/L-HTI	SR RS4	T-6/5	SR 34-550-C	BLD T10/S7		SW6-SD
S32U SLANR-11 TANG	TLN 11R/L-HTI	SR RS4	T-6/5	SR 34-550-C	BLD T10/S7		SW6-SD
S40V SLANR/L-11 TANG	TLN 11R/L-HTI	SR RS4	T-6/5	SR 34-550-C	BLD T10/S7		SW6-SD
S50U SLANR/L-15 TANG	TLN 15R/L-HTI	SR RS4	T-6/5	SR 34-535-SN	BLD T15/S7	SW6-T-SH	



### S-PLANR-TANG

Boring Bars Carrying LNMX ... Tangentially Clamped Inserts with 4 Cutting Edges for High Production Rates



Designation	DCONMS	LF	LDRED	H	HFB	WF	DMIN	HF	Insert
S50U PLANR-15 TANG	50.00	350.00	60.0	47.0	1.5	37.00	85.00	1.5	LNMX 1506..

• Right-hand inserts for left-hand bars. Left-hand inserts for right-hand bars. •  $a_p$  max for facing 3.8 mm.

For inserts, see pages: LNMX-HM (181) • LNMX-HT (180) • LNMX-WG (181)

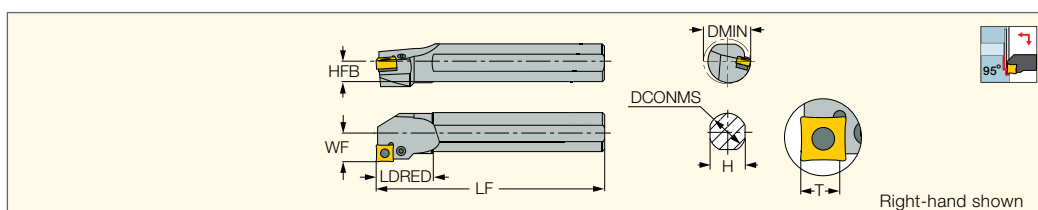
#### Spare Parts

Designation						
S50U PLANR-15 TANG	TLN 15L-HTI	SR RS4	T-6/5	LR T15	SR TL-15	HW 3.5



### S-PQFNR/L

Lever Lock Boring Bars Carrying Negative Square Inserts with 80° Corners for Internal Facing



Right-hand shown

Designation	DCONMS	LF	LDRED	H	HFB	WF	T	DMIN	Insert
S20Q PQFNR/L-09	20.00	180.00	40.0	18.0	9.0	13.00	7.5	28.00	QNMGM 0904...
S32R PQFNR-09	32.00	200.00	45.0	29.0	14.5	22.00	7.5	40.00	QNMGM 0904...
S25R PQFNL-12	25.00	200.00	40.0	23.0	11.5	17.00	9.0	32.00	QNMGM 1204...
S32R PQFNR-12	32.00	200.00	45.0	29.0	14.5	22.00	9.0	40.00	QNMGM 1204...
S40S PQFNL-12	40.00	250.00	50.0	36.0	18.0	27.00	9.0	50.00	QNMGM 1204...

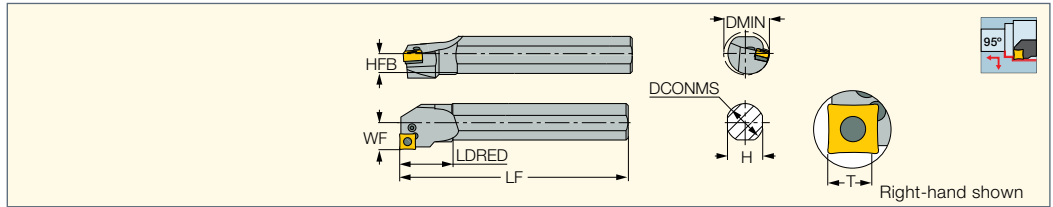
For inserts, see pages: QNMGM-GN (183) • QNMGM-NF (182) • QNMGM-PP (182) • QNMGM-TF (182)

#### Spare Parts

Designation						
S20Q PQFNR/L-09				LR 3S	SR 117-2016	HW 2.0
S32R PQFNR-09	TXC 322	SP 3	PN 3-4	LR 3	SR 117-2014	HW 2.5
S25R PQFNL-12				LR 4M	SR 117-2011	HW 2.5/5
S32R PQFNR-12	TSN 423	SP 4	PN 3-4	LR 4	SR 117-2010	HW 3.0
S40S PQFNL-12	TSN 423	SP 4	PN 3-4	LR 4	SR 117-2010	HW 3.0

**S-PQLNR/L**

Lever Lock Boring Bars  
Carrying Negative Square  
Inserts with 80° Corners



Designation	DCONMS	LF	LDRED	H	HFB	WF	T	DMIN	Insert
S20S PQLNR/L-09	20.00	250.00	40.0	18.0	9.0	13.00	6.5	25.00	QNMGM 0904
S25T PQLNR-09	25.00	300.00	40.0	23.0	11.5	17.00	6.5	32.00	QNMGM 0904
S32U PQLNR-09	32.00	350.00	45.0	29.0	14.5	22.00	6.5	40.00	QNMGM 0904
S25T PQLNR/L-12	25.00	300.00	40.0	23.0	11.5	17.00	8.5	32.00	QNMGM 1204
S32U PQLNR/L-12	32.00	350.00	45.0	29.0	14.5	22.00	8.5	40.00	QNMGM 1204
S40V PQLNR/L-12	40.00	400.00	50.0	36.0	18.0	27.00	8.5	50.00	QNMGM 1204

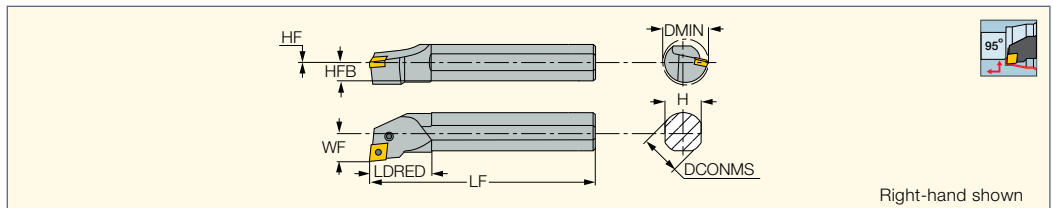
For inserts, see pages: QNMGM-GN (183) • QNMGM-NF (182) • QNMGM-PP (182) • QNMGM-TF (182)

**Spare Parts**

Designation						
S20S PQLNR/L-09				LR 3S	SR 117-2016	HW 2.0
S25T PQLNR-09				LR 3S	SR 117-2016	HW 2.0
S32U PQLNR-09	TXC 322	SP 3	PN 3-4	LR 3	SR 117-2014	HW 2.5
S25T PQLNR/L-12				LR 4M	SR 117-2011	HW 2.5/5
S32U PQLNR/L-12	TSN 423	SP 4	PN 3-4	LR 4	SR 117-2010	HW 3.0
S40V PQLNR/L-12	TSN 423	SP 4	PN 3-4	LR 4	SR 117-2010	HW 3.0

**A/S-PCLNR/L**

Lever Lock Boring Bars Carrying  
Negative 80° Rhombic Inserts



Designation	DCONMS	LF	LDRED	H	HFB	WF	HF	CSP <sup>(1)</sup>	DMIN	Insert
A25R PCLNR/L-12	25.00	200.00	40.0	23.0	11.5	17.00	0.0	1	32.00	CNMGM 1204..
S25S PCLNR/L-12	25.00	250.00	48.0	23.0	11.5	17.00	0.0	0	32.00	CNMGM 1204..
A32T PCLNR/L-12	32.00	300.00	45.0	30.0	14.5	22.00	-0.5	1	40.00	CNMGM 1204..
S32T PCLNR/L-12	32.00	300.00	51.0	30.0	14.5	22.00	-0.5	0	40.00	CNMGM 1204..
S40U PCLNR/L-12	40.00	350.00	51.0	36.0	18.0	27.00	0.0	0	49.00	CNMGM 1204..
S50W PCLNR-19	50.00	450.00	70.0	47.0	23.5	35.00	0.0	0	63.00	CNMGM 1906..

(1) 0 - Without coolant supply, 1 - With coolant supply

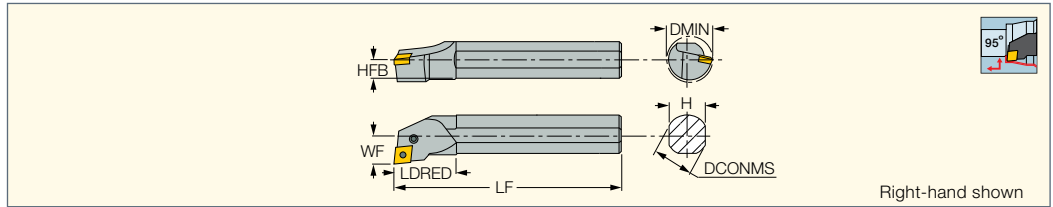
For inserts, see pages: CNGA-J(CBN) (226) • CNGG-J(CBN) (227) • CNMG-CERMET (145) • CNMG-F3S (147) • CNMG-F3P (144) • CNMG-M3P (144) • CNMM-R3P (153) • CNMM-M4PW (152) • CNMG-F3M (146) • CNMG-M3M (146) • CNMG-R3M (147) • CNMG/CNGG-TF (150) • CNMG-GN (151) • CNMG-NR (151) • CNMG/CNGG-PP (150) • CNMG-VL (147) • CNMG/CNGG-SF (148) • CNMG-NF (148) • CNMG-WF (148) • CNMG-WG/NRW (149) • CNMS-12 (214) • CNMM-H3P (153) • CNMM-H4P (153) • CNMA (149) • CNGA-Ceramic (217) • CNMG-Ceramic (216) • CNGA-2 (CBN) (226) • CNGA-4 (CBN) (225) • CNGG-M4HF/M4HM (CBN) (226) • CNMA-MW4 (CBN) (225) • CNMA-T/M1/WG (CBN) (225) • CNMA (PCD) (221)

**Spare Parts**

Designation								
A25R PCLNR/L-12				LR 4M	SR 117-2011	HW 2.5/5	HW 2.0	PL 25
S25S PCLNR/L-12				LR 4M	SR 117-2011	HW 2.5/5	HW 2.5	
S25S PCLNR-12				LR 4M	SR 117-2011	HW 2.5/5		
A32T PCLNR/L-12	TCN 423	SP 4	PN 3-4	LR 4	SR 117-2010	HW 2.0	HW 3.0	PL 32
S32T PCLNR/L-12	TCN 423	SP 4	PN 3-4	LR 4	SR 117-2010	HW 3.0		
S40U PCLNR/L-12	TCN 423	SP 4	PN 3-4	LR 4	SR 117-2010	HW 3.0		
S50W PCLNR-19	TCN 63	SP 66		LR 6	SR 10402352	HW 4.0		

# HELITURN LD

**A/S-PCLNR/L-X/G**  
Lever Lock Boring Bars Carrying  
Negative CNMX/CNMG  
80° Rhombic Inserts



Designation	DCONMS	LF	LDRED	H	HFB	WF	DMIN	CSP <sup>(6)</sup>	Insert
<b>A16M PCLNR/L-09G</b> <sup>(1)</sup>	16.00	150.00	30.0	15.0	7.5	11.00	21.00	1	CNMG 0904..
<b>A20Q PCLNR/L-09G</b> <sup>(1)</sup>	20.00	180.00	30.0	18.0	9.0	13.00	25.00	1	CNMG 0904..
<b>A25R PCLNR/L-09X</b> <sup>(2)</sup>	25.00	200.00	35.0	23.0	11.5	17.00	32.00	1	CNMX 0906, CNMG 0904
<b>A32S PCLNR/L-09X</b> <sup>(2)</sup>	32.00	250.00	40.0	29.0	14.5	22.00	40.00	1	CNMX 0906, CNMG 0904
<b>A25R PCLNR/L-12X</b> <sup>(3)</sup>	25.00	200.00	51.0	23.0	11.5	21.00	50.00	1	CNMX 1207, CNMG 1204
<b>A32S PCLNR/L-12X</b> <sup>(3)</sup>	32.00	250.00	51.0	29.0	14.5	21.00	54.00	1	CNMX 1207, CNMG 1204
<b>S50W PCLNR-16X</b> <sup>(4)</sup>	50.00	450.00	70.0	47.0	23.5	35.00	63.00	0	CNMX 1607, CNMG 1606

<sup>(1)</sup> For CNMG 0904.. inserts only

<sup>(2)</sup> Supplied with TCX 3 seat for CNMX 0906.. inserts and TCN 323 seat for CNMG 0904.. inserts.

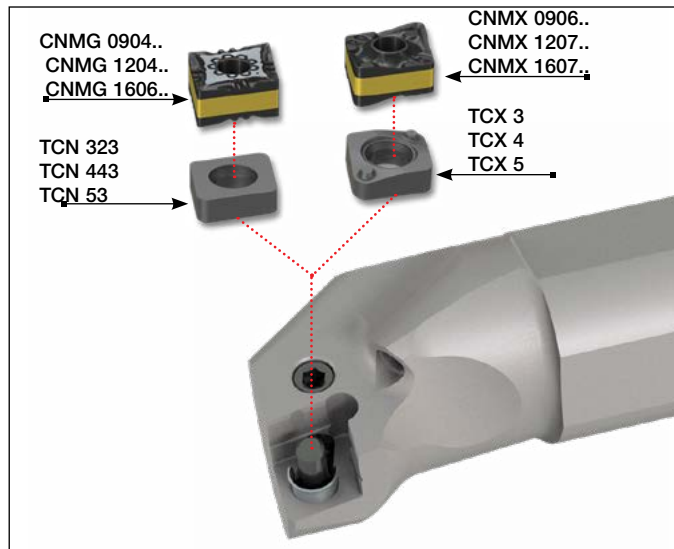
<sup>(3)</sup> Supplied with TCX 4 seat for CNMX 1207.. inserts and TCN 443 seat for CNMG 1204.. inserts.

<sup>(4)</sup> Supplied with TCN 53 seat for CNMG 1606.. inserts. Use TCX 5 seat (optional) for CNMX 1607.. inserts.

<sup>(6)</sup> 0 - Without coolant supply, 1 - With coolant supply

**For inserts, see pages:** CNGA-J(CBN) (226) • CNGG-J(CBN) (227) • CNMG-M3N (209) • CNMG-F3S (147) • CNMX-M3/4MW (152) • CNMX-M3/4PW (152)

- CNMG-F3P (144) • CNMG-M3P (144) • CNMG-F3M (146) • CNMG-M3M (146) • CNMG-R3M (147) • CNMM-R3P (153) • CNGA-2 (CBN) (226)
- CNGA-4 (CBN) (225) • CNGA-Ceramic (217) • CNGG-M4HF/M4HM (CBN) (226) • CNMA (149) • CNMA (PCD) (221) • CNMA-MW4 (CBN) (225)
- CNMA-T/M1/WG (CBN) (225) • CNMG-Ceramic (216) • CNMG-GN (151) • CNMG-MR (151) • CNMG-NF (148) • CNMG-NR (151) • CNMG-VL (147) • CNMG-WF (148)
- CNMG-WG/NRW (149) • CNMG/CNGG-PP (150) • CNMG/CNGG-SF (148) • CNMG/CNGG-TF (150) • CNMS-12 (214)
- CNGG-F3N (209) • CNMG-CERMET (145)



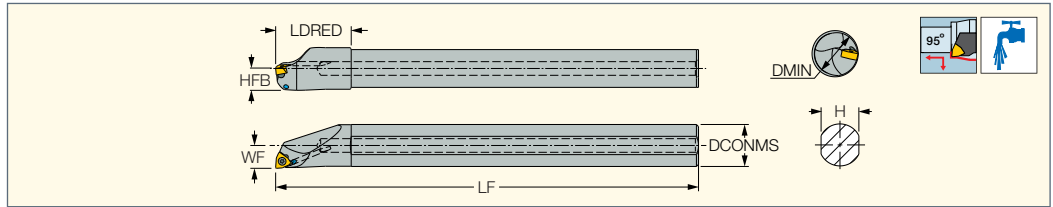
## Spare Parts

Designation									
<b>A16M PCLNR/L-09G</b>					LR 3S	SR 117-2009	HW 2.0	PL 16	
<b>A20Q PCLNR/L-09G</b>					LR 3S	SR 117-2009	HW 2.0	PL 20	
<b>A25R PCLNR/L-09X</b>	TCX 3 <sup>(a)</sup>	TCN 323	SP 3	PN 3-4	LR 3	SR 117-2014	HW 2.5	PL 25	
<b>A32S PCLNR/L-09X</b>	TCX 3 <sup>(a)</sup>	TCN 323	SP 3	PN 3-4	LR 3	SR 117-2014	HW 2.5	PL 32	
<b>A25R PCLNR/L-12X</b>	TCX 4	TCN 443	SP 4	PN 3-4L	LR 4DH	SR 117-2010	HW 3.0	PL 25	LR 4DHTL (MR INJ)*
<b>A32S PCLNR/L-12X</b>	TCX 4	TCN 443	SP 4	PN 3-4L	LR 4DH	SR 117-2010	HW 3.0	PL 32	LR 4DHTL (MR INJ)*
<b>S50W PCLNR-16X</b>	TCX 5*	TCN 53	SP 5		LR 5	SR LCS 5	HW 3.0		

\* Optional, should be ordered separately

<sup>(a)</sup> For CNMX 0906.. (CNMX 34.) inserts

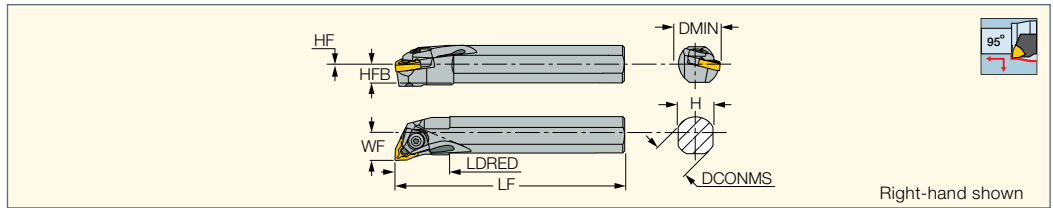
**A/E-SWLN/L-04**  
Boring Bars Carrying  
WNGP 0403.. Double-Sided  
Trigon Inserts for Small Diameters



Designation	DCONMS	LF	LDRED	H	HFB	WF	DMIN	Insert		
A10K SWLN/L-04	10.00	125.00	20.0	9.0	5.5	6.00	12.00	WNGP 04	SR 34-514	T-7F
A12M SWLN/L-04	12.00	150.00	24.0	11.0	6.5	7.00	14.00	WNGP 04	SR 34-514	T-7F
A16Q SWLN/L-04	16.00	180.00	32.0	15.0	8.5	9.00	18.00	WNGP 04	SR 34-514	T-7F
A20R SWLN/L-04	20.00	200.00	36.0	18.0	10.5	11.00	22.00	WNGP 04	SR 34-514	T-7F
E10M SWLN/L-04	10.00	150.00	25.0	9.0	5.5	6.00	12.00	WNGP 04	SR 34-514	T-7F
E12Q SWLN/L-04	12.00	180.00	27.0	11.0	6.5	7.00	14.00	WNGP 04	SR 34-514	T-7F
E16R SWLN/L-04	16.00	200.00	32.0	15.0	8.5	9.00	18.00	WNGP 04	SR 34-514	T-7F
E20S SWLN/L-04	20.00	250.00	36.0	18.0	10.5	11.00	22.00	WNGP 04	SR 34-514	T-7F

• Use left-hand inserts on right-hand bars and vice versa. • A - steel shank with coolant hole, E - carbide shank with coolant hole.  
For inserts, see pages: WNGP-F2M (137) • WNGP-F2P (135)

**A/S-MWLN/L-W**  
Top Wedge Lock Boring Bars  
Carrying Double-Sided  
Trigon Inserts



Designation	DCONMS	LF	LDRED	H	HFB	WF	DMIN	HF	CSP <sup>(2)</sup>	Insert
A20 MWLN/L-06W-AD <sup>(1)</sup>	20.00	100.00	28.0	18.0	9.0	13.00	25.00	0.0	1	WNMG 06T3
A20Q MWLN/L-06W	20.00	180.00	28.0	18.0	9.2	13.00	25.00	0.2	1	WNMG 06T3
A25R MWLN/L-06W	25.00	200.00	34.0	23.0	11.7	17.00	32.00	0.2	1	WNMG 06T3
A32S MWLN/L-06W	32.00	250.00	28.0	29.0	14.7	19.00	36.00	0.2	1	WNMG 06T3
S20S MWLN/L-06W	20.00	250.00	28.0	18.0	9.2	13.00	25.00	0.2	0	WNMG 06T3
S25T MWLN/L-06W	25.00	300.00	28.0	23.0	11.7	17.00	32.00	0.2	0	WNMG 06T3
S25T MWLN/L-06W	25.00	300.00	28.0	23.0	11.7	17.00	32.00	0.2	0	WNMG 06T3
S32U MWLN/L-06W	32.00	350.00	40.0	29.0	14.7	19.00	36.00	0.2	0	WNMG 06T3
S32U MWLN/L-06W	32.00	350.00	28.0	29.0	14.7	19.00	36.00	0.2	0	WNMG 06T3
A25R MWLN/L-08W	25.00	200.00	40.0	23.0	11.7	17.00	32.00	0.2	1	WNMG 0804
A25 MWLN/L-08W-AD <sup>(1)</sup>	25.00	120.00	35.0	23.0	11.7	17.00	32.00	0.2	1	WNMG 0804
A32S MWLN/L-08W	32.00	250.00	45.0	29.0	14.7	22.00	40.00	0.2	1	WNMG 0804
A40T MWLN/L-08W	40.00	300.00	50.0	36.0	18.2	27.00	50.00	0.2	1	WNMG 0804
S25T MWLN/L-08W	25.00	300.00	35.0	23.0	11.7	17.00	32.00	0.2	0	WNMG 0804
S32U MWLN/L-08W	32.00	350.00	45.0	28.0	14.7	22.00	40.00	0.7	0	WNMG 0804
S40V MWLN/L-08W	40.00	400.00	50.0	36.0	18.2	27.00	50.00	0.2	0	WNMG 0804
S50V MWLN/L-13W	50.00	400.00	63.0	47.0	23.5	35.00	63.00	0.0	0	WNMG 1306

<sup>(1)</sup> AD - short tool for adapter holders

<sup>(2)</sup> 0 - Without coolant supply, 1 - With coolant supply

For inserts, see pages: WNMG-F3P (135) • WNMG-M3P (135) • WNMG-F3S (138) • WNMG-F3M (137) • WNMG-M3M (138) • WNMM-NM (142)  
• WNMG-TF (141) • WNMG-GN (141) • WNMG-NR (142) • WNMG-PP (140) • WNMG-VL (139) • WNMG-TNM (142) • WNMG-SF (138) • WNMG-NF (139)  
• WNMG-WF (140) • WNMA/WNMA-WG (143) • WNMG-WG (139) • WNGA-Ceramic (216) • WNGA-M3 (CBN) (224) • WNGA-MC/M6 (CBN) (224)  
• WNMG-CERMET (136) • WNGG-F3N (209)

**Spare Parts**

Designation										
A20 MWLN/L-06W-AD			ZNW 3WI	LC 250 SET 1					HW 2.5	PL 20
A20Q MWLN/L-06W			ZNW 3WI	LC 250 SET 1					HW 2.5	PL 20
A25R MWLN/L-06W	IWSN 322W	IWSN 3-2W <sup>(a)</sup> *	ZNW 3W	LC 250 SET 1					HW 2.5	PL 25
A32S MWLN/L-06W	IWSN 322W	IWSN 3-2W <sup>(a)</sup> *	ZNW 3W	LC 250 SET 1					HW 2.5	PL 32
S20S MWLN/L-06W			ZNW 3WI	LC 250 SET 1					HW 2.5	
S25T MWLN/L-06W	IWSN 322W	IWSN 3-2W <sup>(a)</sup> *	ZNW 3W	LC 250 SET 1					HW 2.5	
S32U MWLN/L-06W	IWSN 322W	IWSN 3-2W <sup>(a)</sup> *	ZNW 3W	LC 250 SET 1					HW 2.5	
A25R MWLN/L-08W	TWN 423		ZNW-4WI	LC 252 SET 2					HW 3.0	PL 25
A25 MWLN/L-08W-AD	TWN 423		ZNW-4WI	LC 252 SET 2					HW 3.0	PL 25
A32S MWLN/L-08W	TWN 423		ZNW-4WI	LC 252 SET 1					HW 3.0	PL 32
A40T MWLN/L-08W	IWSN 433	IWSN 433M <sup>(b)</sup> *	ZNW 4W	LC 252 SET 1					HW 3.0	PL 40
S25T MWLN/L-08W	TWN 423		ZNW-4WI	LC 252 SET 2					HW 3.0	
S32U MWLN/L-08W	TWN 423		ZNW-4WI	LC 252 SET 1					HW 3.0	
S40V MWLN/L-08W	IWSN 433	IWSN 433M <sup>(b)</sup> *	ZNW 4W	LC 252 SET 1					HW 3.0	
S50V MWLN/L-13W	IWSN 635		ZNW 6W		LC 253	SPR 17-362	WA M8		HW 4P	
S50V MWLN/L-13W	IWSN 635		ZNW 6W		LC 253	SPR 17-362	WA M8		HW 4P	

\* Optional, should be ordered separately

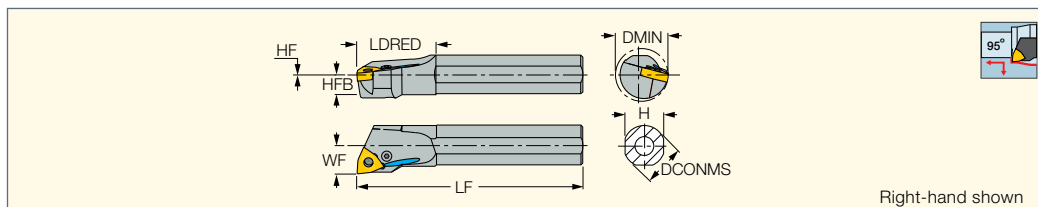
<sup>(a)</sup> Use IWSN 3-2W optional seat for WNMG 0604.. inserts

<sup>(b)</sup> Use IWSN 433M optional seat for WNMG 0804..-TNM inserts

## ISOTURN

### A/S-PWLNR/L

Lever Lock Boring Bars Carrying Double-Sided Trigon Inserts



Right-hand shown

Designation	DCONMS	LF	LDRED	H	HFB	WF	DMIN	HF	CSP <sup>(1)</sup>	Insert
A16M PWLNR/L-06	16.00	150.00	27.0	15.0	8.0	11.00	20.00	0.5	1	WNMG 06T3
A20Q PWLNR/L-06	20.00	180.00	36.0	18.0	9.2	13.00	25.00	0.2	1	WNMG 06T3
A25R PWLNR/L-06	25.00	200.00	35.0	23.0	11.7	17.00	32.00	0.2	1	WNMG 06T3
S16Q PWLNR/L-06	16.00	180.00	27.0	15.0	8.0	11.00	20.00	0.5	0	WNMG 06T3
S20R PWLNR/L-06	20.00	200.00	36.0	18.0	9.0	13.00	27.00	0.0	0	WNMG 06T3
S25S PWLNR/L-06	25.00	250.00	40.4	23.0	11.5	17.00	32.00	0.0	0	WNMG 06T3
S32T PWLNR-06	32.00	300.00	50.0	29.0	14.5	19.00	39.00	0.0	0	WNMG 06T3
A25R PWLNR-08	25.00	200.00	47.0	23.0	11.5	17.00	32.00	0.5	1	WNMG 0804
A25R PWLNR-08	25.00	200.00	47.5	23.0	11.7	17.00	32.00	0.2	1	WNMG 0804
A32S PWLNR/L-08	32.00	250.00	50.0	28.0	14.7	22.00	39.00	0.7	1	WNMG 0804
S25S PWLNR/L-08	25.00	250.00	47.0	23.0	11.5	17.00	32.00	0.0	0	WNMG 0804
S32T PWLNR/L-08	32.00	300.00	50.0	29.0	14.5	22.00	39.00	0.0	0	WNMG 0804
S40U PWLNR/L-08	40.00	350.00	59.0	36.0	18.0	27.00	49.00	0.0	0	WNMG 0804

(1) 0 - Without coolant supply, 1 - With coolant supply

For inserts, see pages: WNMG-F3S (138) • WNMG-F3P (135) • WNMG-M3P (135) • WNMG-F3M (137) • WNMG-M3M (138) • WNMG-TF (141) • WNMG-GN (141) • WNMG-NR (142) • WNMG-PP (140) • WNMG-VL (139) • WNMG-TNM (142) • WNMG-SF (138) • WNMG-NF (139) • WNMM-NM (142) • WNMG-WF (140) • WNMA/WNMA-WG (143) • WNMG-WG (139) • WNGA-Ceramic (216) • WNGA-M3 (CBN) (224) • WNGA-MC/M6 (CBN) (224) • WNMG-CERMET (136)

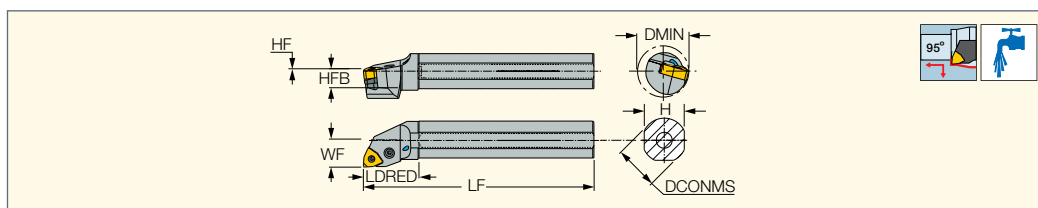
### Spare Parts

Designation							
A16M PWLNR/L-06				LR 3S	SR 117-2009	PL 16	HW 2.0/5
A20Q PWLNR/L-06	TWN 322	SP 3	PN 3-4	LR 3W	SR 117-2014	PL 20	HW 2.5/5
A25R PWLNR/L-06	TWN 322	SP 3	PN 3-4	LR 3	SR 117-2014	PL 25	HW 2.5/5
S16Q PWLNR/L-06				LR 3S	SR 117-2009		HW 2.0/5
S20R PWLNR/L-06	TWN 322	SP 3	PN 3-4	LR 3W	SR 117-2014		HW 2.5/5
S25S PWLNR/L-06	TWN 322	SP 3	PN 3-4	LR 3	SR 117-2014		HW 2.5/5
S32T PWLNR-06	TWN 322	SP 3	PN 3-4	LR 3	SR 117-2014		HW 2.5/5
A25R PWLNR/L-08				LR 4M	SR 117-2011	PL 25	HW 2.5/5
A32S PWLNR/L-08	TWN 423	SP 4	PN 3-4	LR 4	SR 117-2010	PL 32	HW 3.0
S25S PWLNR/L-08				LR 4M	SR 117-2011		HW 2.5/5
S32T PWLNR/L-08	TWN 423	SP 4	PN 3-4	LR 4	SR 117-2010		HW 3.0
S40U PWLNR/L-08	TWN 423	SP 4	PN 3-4	LR 4	SR 117-2010		HW 3.0

## HELITURN LD

### A-PWLNR/L-X/G

Lever Lock Boring Bars with Coolant Holes Carrying HELITURN LD WNMG or WNMG Trigon Inserts



Designation	DCONMS	H	HFB	LF	LDRED	WF	DMIN	HF	Insert
A16M PWLNR/L-06G <sup>(1)</sup>	16.00	15.0	8.0	150.00	30.0	11.00	25.00	0.5	WNMG 0604
A20Q PWLNR/L-06G <sup>(1)</sup>	20.00	18.0	9.2	180.00	35.0	13.00	25.00	0.2	WNMG 0604
A25R PWLNR-06G <sup>(1)</sup>	25.00	23.0	11.5	200.00	35.0	17.00	32.00	0.0	WNMG 0604
A32S PWLNR-06G <sup>(1)</sup>	32.00	29.0	14.5	250.00	48.0	22.00	40.00	0.0	WNMG 0604
A32S PWLNR/L-08X <sup>(2)</sup>	32.00	29.0	14.5	250.00	51.0	21.00	54.00	0.0	WNMX 0807, WNMG 0804

(1) For WNMG 0604.. inserts only

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

For inserts, see pages: WNGG-F3N (209) • WNMA/WNMA-WG (143) • WNMG-F3M (137) • WNMG-F3P (135) • WNMG-F3S (138) • WNMG-GN (141) • WNMG-M3M (138) • WNMG-M3P (135) • WNMG-NF (139) • WNMG-PP (140) • WNMG-TF (141) • WNMG-WF (140) • WNMG-WG (139) • WNMX-M3/4MW (143) • WNMX-M3/4PW (143)

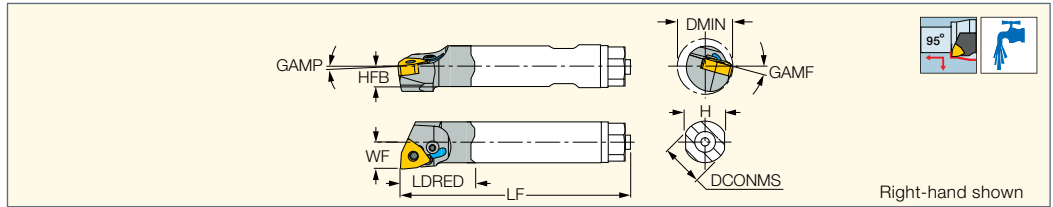
### Spare Parts

Designation								
A16M PWLNR/L-06G					LR 3S	SR 117-2009	PL 16	HW 2.0
A20Q PWLNR/L-06G					LR 3S	SR 117-2009	PL 20	HW 2.0
A25R PWLNR-06G		TWN 3	SP 3	PN 3-4	LR 3W	SR 117-2014	PL 25	HW 2.5
A32S PWLNR-06G		TWN 3	SP 3	PN 3-4	LR 3W	SR 117-2014	PL 32	HW 2.5
A32S PWLNR/L-08X	TWX 4	TWN 443	SP 4	PN 3-4L	LR 4DH	SR 117-2010	PL 32	HW 3.0

\* Optional, should be ordered separately

**E-PWLNR/L-HEAD**




Lever Lock Interchangeable  
Boring Heads Clamped on a  
Solid Carbide Shank Carrying  
Negative WNMG Trigon Inserts



Designation	DCONMS	LF	LDRED	H	HFB	WF	GAMP	GAMF	DMIN	Insert
<b>E16 PWLNR-06 HEAD</b>	16.00	200.00	37.0	15.0	8.0	11.00	-14.0	-6.0	20.00	WNMG/WNGG 06T3

For inserts, see pages: WNMG-CERMET (136) • WNMG-M3P (135) • WNMG-TF (141) • WNMG-GN (141) • WNMG-PP (140) • WNMG-VL (139)  
• WNMG-SF (138) • WNMG-NF (139) • WNMA/WNMA-WG (143) • WNMG-WG (139)

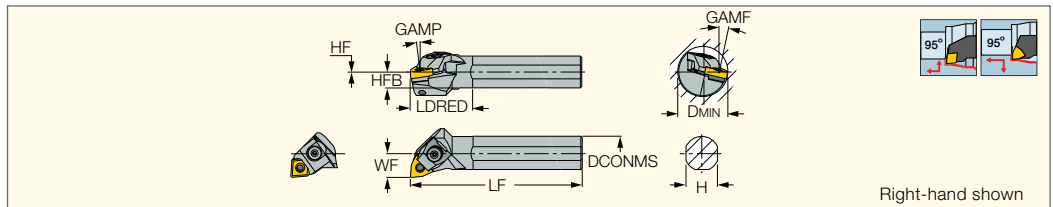
**Spare Parts**

Designation			
<b>E-PWLNR/L-HEAD</b>	LR 3S	SR 117-2009	HW 2.0/5

**MULTI-WEDGE**

**S-MULNR-MW**

MULTI-WEDGE Lock Boring Bars  
Carrying 80° Negative Rhombic  
or Trigon or Square Inserts

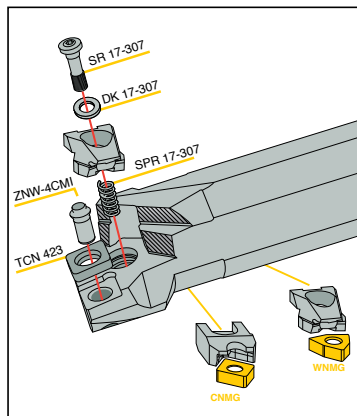


Designation	DCONMS	LF	LDRED	H	HFB	WF	HF	GAMP	GAMF	DMIN	Insert
<b>S25T MULNR-12MW</b>	25.00	300.00	45.0	23.0	11.6	17.00	-11.4	-6.0	-12.0	36.00	WM..0804/CN..1204





• Only LC WN08 is supplied with the boring bar. The other wedge should be ordered separately.

For inserts, see pages: CNGA-J(CBN) (226) • CNGG-J(CBN) (227) • CNMG-CERMET (145) • CNMG-F3S (147) • WNMG-CERMET (136) • WNMG-F3S (138)  
• WNMG-F3P (135) • WNMG-M3P (135) • WNMG-F3M (137) • WNMG-M3M (138) • WNMG-TF (141) • WNMG-GN (141) • WNMG-NR (142) • WNMG-PP (140)  
• WNMG-VL (139) • WNMG-TNM (142) • WNMG-NF (139) • WNMG-NM (142) • WNMG-WF (140) • WNMA/WNMA-WG (143) • WNMG-WG (139) • WNGA-Ceramic (216)  
• WNGA-M3 (CBN) (224) • WNGA-MC/M6 (CBN) (224) • CNMG-F3P (144) • CNMG-M3P (144) • CNMM-R3P (153) • CNMM-M4PW (152) • CNMG-F3M (146)  
• CNMG-M3M (146) • CNMG/CNGG-TF (150) • CNMG-GN (151) • CNMG-NR (151) • CNMG/CNGG-PP (150) • CNMG-VL (147) • CNMG/CNGG-SF (148)  
• CNMG-NF (148) • CNMG-WF (148) • CNMG-WG/NRW (149) • CNMA (149) • CNGA-Ceramic (217) • CNMG-Ceramic (216) • CNGA-2 (CBN) (226)  
• CNGA-4 (CBN) (225) • CNGG-M4HF/M4HM (CBN) (226) • CNMA-MW4 (CBN) (225) • CNMA-T/M1/WG (CBN) (225) • CNMA (PCD) (221)

**Toolholder Options**



**Spare Parts**

Designation								
<b>S-MULNR-MW</b>	TCN 423	ZNW 4CMI	LC WN08	LCR CN12*	SR 17-307	SPR 17-307	DK 17-307	HW 3.0

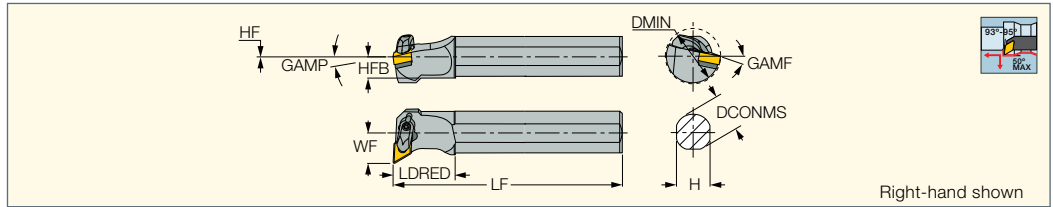
\* Optional, should be ordered separately





**S-DDUNR/L**

R-Clamp Boring Bars Carrying ISO Negative DNMG Inserts



Right-hand shown

Designation	DCONMS	LF	LDRED	H	HFB	WF	DMIN	HF	GAMP	GAMF	Insert
<b>S32T DDUNR/L-15</b>	32.00	300.00	45.0	29.0	15.8	22.00	42.00	1.3	-6.0	-11.0	DNMG 1506
<b>S40U DDUNR/L-15</b>	40.00	350.00	50.0	36.0	19.8	27.00	48.00	1.8	-6.0	-10.0	DNMG 1506

**For inserts, see pages:** DNGA-J(CBN) (229) • DNMG-F3S (157) • DNMG-F3P (156) • DNMG-M3P (156) • DNMX-M3P (162) • DNMM-R3P (162) • DNMG-CERMET (158) • DNMG-F3M (157) • DNMG-M3M (157) • DNMG/DNGG-TF (160) • DNMG-GN (161) • DNMG-NR (161) • DNMG/DNGG-PP (160) • DNMG-VL (160) • DNMG-PF (159) • DNMG-NF (158) • DNMM-NM (162) • DNMA (161) • DNGA-Ceramic (218) • DNGA-2 (CBN) (229) • DNGA-4 (CBN) (229) • DNGG-M4HF/M4HM (CBN) (230) • DNMA (CBN) (228)

**Spare Parts**

Designation						
<b>S-DDUNR/L</b>	TDN 422 <sup>(a)</sup>	TDN 432 <sup>(b)*</sup>	SP 4	LCGR-4	SR 10400270-25.5	T-15/5

\* Optional, should be ordered separately

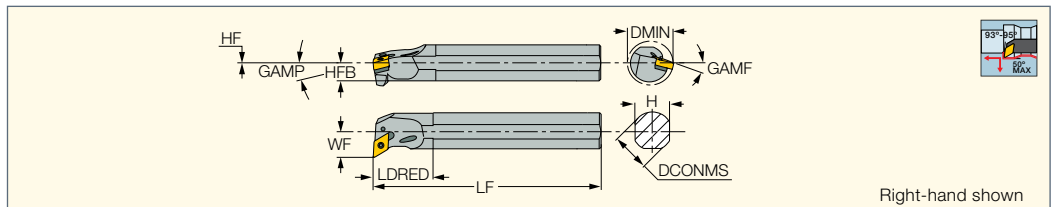
<sup>(a)</sup> Use for DNMG 1506.. inserts

<sup>(b)</sup> Use for DNMG 1504.. inserts



**A/S-PDUNR/L**

Lever Lock Boring Bars Carrying 55° Negative Rhombic Inserts



Right-hand shown

Designation	DCONMS	LF	LDRED	H	HFB	HF	WF	GAMP	GAMF	DMIN	CSP <sup>(1)</sup>	Insert
<b>A20Q PDUNR/L-11</b>	20.00	180.00	35.0	18.0	9.2	0.2	16.00	-6.0	-14.0	27.00	1	DNMG 1104
<b>A25R PDUNR/L-11</b>	25.00	200.00	40.0	23.0	11.5	0.0	17.00	-6.0	-13.0	32.00	1	DNMG 1104
<b>A32S PDUNR/L-11</b>	32.00	250.00	45.0	29.0	14.5	0.0	22.00	-6.0	-11.0	40.00	1	DNMG 1104
<b>S32T PDUNR/L-15</b>	32.00	300.00	51.0	29.0	15.5	1.0	22.00	-6.0	-13.0	40.00	0	DNMG 1506
<b>S40U PDUNR/L-15</b>	40.00	350.00	50.0	36.0	18.0	0.0	27.00	-6.0	-11.5	50.00	0	DNMG 1506

<sup>(1)</sup> 0 - Without coolant supply, 1 - With coolant supply

**For inserts, see pages:** DNGA-J(CBN) (229) • DNGG-M3N (210) • DNMG-CERMET (158) • DNMG-F3S (157) • DNMG-F3P (156) • DNMG-M3P (156) • DNMX-M3P (162) • DNMM-R3P (162) • DNMG-F3M (157) • DNMG-M3M (157) • DNMG/DNGG-TF (160) • DNMG-GN (161) • DNMG-NR (161) • DNMG/DNGG-PP (160) • DNMG-VL (160) • DNMG-PF (159) • DNMG/DNGG-SF (159) • DNMG-NF (158) • DNMM-NM (162) • DNMG-WG (159) • DNMS-12 (214) • DNMA (161) • DNGA-Ceramic (218) • DNGA-4 (CBN) (229) • DNMA (CBN) (228)

**Spare Parts**

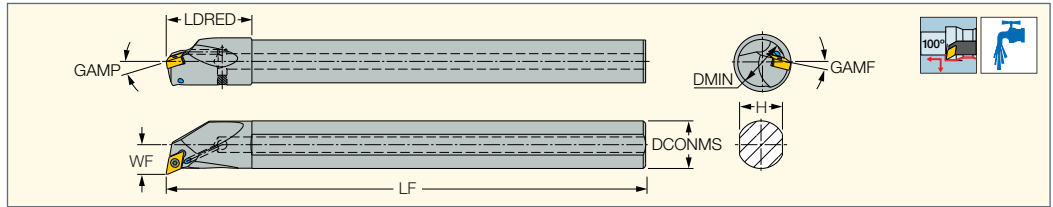
Designation								
<b>A20Q PDUNR/L-11</b>				LR 3DS	SR 117-2011	HW 2.5/5	PL 20	
<b>A25R PDUNR/L-11</b>	TDN 3P2		SP 3	LR 3D	SR 117-2014	HW 2.5/5	PL 25	PN 3-4
<b>A32S PDUNR/L-11</b>	TDN 322		SP 3	LR 3D	SR 117-2014	HW 2.5/5	PL 32	PN 3-4
<b>S32T PDUNR/L-15</b>	TDN 422 <sup>(a)</sup>	TDN 432 <sup>(b)*</sup>	SP 4	LR 4D	SR 117-2010	HW 3.0		PN 3-4
<b>S40U PDUNR/L-15</b>	TDN 422 <sup>(a)</sup>	TDN 432 <sup>(b)*</sup>	SP 4	LR 4D	SR 117-2010	HW 3.0		PN 3-4

\* Optional, should be ordered separately

<sup>(a)</sup> Use for DNMG 1506.. inserts

<sup>(b)</sup> Use for DNMG 1504.. inserts

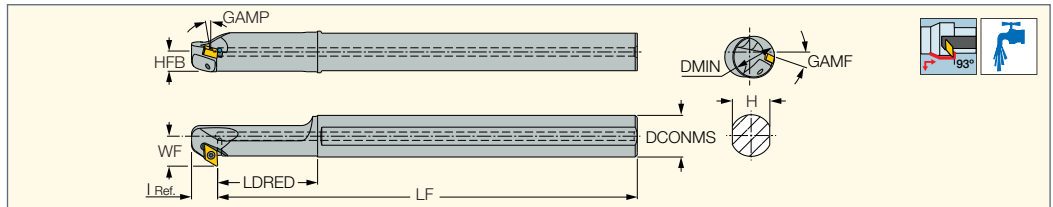
**A/E-SDXNR/L-07**  
Boring Bars Carrying DNGP  
0703.. Double-Sided  
55° Rhombic Inserts for  
Small Diameters



Designation	DCONMS	LF	LDRED	H	WF	DMIN	GAMP	GAMF	Insert		
A10K SDXNR/L-07	10.00	125.00	20.0	9.0	7.60	13.00	-14.0	-16.0	DNGP 07	SR 34-514	T-7F
A12M SDXNR/L-07	12.00	150.00	24.0	11.0	8.60	16.00	-14.0	-14.0	DNGP 07	SR 34-514	T-7F
A16Q SDXNR/L-07	16.00	180.00	32.0	15.0	10.60	20.00	-13.0	-13.0	DNGP 07	SR 34-514	T-7F
A20R SDXNR/L-07	20.00	200.00	36.0	18.0	12.60	24.00	-13.0	-12.0	DNGP 07	SR 34-514	T-7F
E10M SDXNR/L-07	10.00	150.00	20.0	9.0	7.60	13.00	-14.0	-16.0	DNGP 07	SR 34-514	T-7F
E12Q SDXNR/L-07	12.00	180.00	24.0	11.0	8.60	16.00	-14.0	-14.0	DNGP 07	SR 34-514	T-7F
E16R SDXNR/L-07	16.00	200.00	32.0	15.0	10.60	20.00	-13.0	-13.0	DNGP 07	SR 34-514	T-7F
E20S SDXNR/L-07	20.00	250.00	36.0	18.0	12.60	24.00	-13.0	-12.0	DNGP 07	SR 34-514	T-7F

• Use left-hand inserts on right-hand bars and vice versa. • A - steel shank with coolant hole, E - carbide shank with coolant hole.  
For inserts, see pages: DNGP-F2M (156) • DNGP-F2P (155)

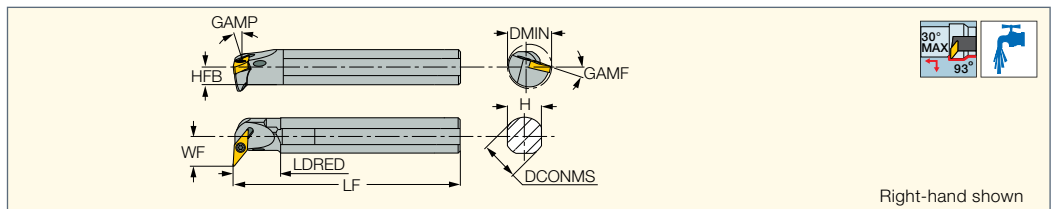
**A/E-SDZNR/L-07**  
Back Turning Boring Bars  
Carrying DNGP 0703..  
Double-Sided 55° Rhombic  
Inserts for Small Diameters



Designation	DCONMS	LF	LDRED	I Ref.	H	HFB	WF	DMIN	GAMP	GAMF	Insert		
A12M SDZNR/L-07	12.00	150.00	38.0	13.00	11.0	5.5	10.50	14.00	-10.0	-14.0	DNGP 07	SR 34-514	T-7F
A16Q SDZNR/L-07	16.00	180.00	43.0	13.00	15.0	7.5	12.50	16.00	-10.0	-12.5	DNGP 07	SR 34-514	T-7F
A20R SDZNR/L-07	20.00	200.00	48.0	12.50	18.0	9.0	14.50	20.00	-10.0	-10.5	DNGP 07	SR 34-514	T-7F
E12Q SDZNR/L-07	12.00	180.00	-	13.00	11.0	5.5	10.50	18.00	-11.0	-11.0	DNGP 07	SR 34-514	T-7F
E16R SDZNR/L-07	16.00	200.00	-	13.00	15.0	7.5	12.50	22.00	-11.0	-9.0	DNGP 07	SR 34-514	T-7F

• Use right-hand inserts on right-hand bars and vice versa. • A - steel shank with coolant hole, E - carbide shank with coolant hole.  
For inserts, see pages: DNGP-F2M (156) • DNGP-F2P (155)

**A-SVUNR/L**  
Boring Bars with Internal  
Coolant Holes Carrying 35°  
Negative Rhombic Inserts



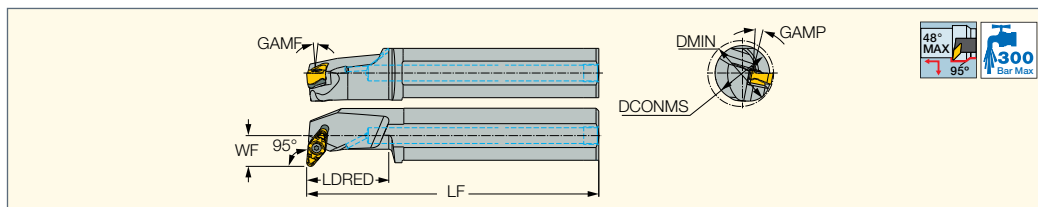
Designation	DCONMS	LF	LDRED	H	HFB	WF	DMIN	GAMP	GAMF			
A20Q SVUNR/L-12	20.00	180.00	38.0	18.0	9.0	16.00	26.50	-6.5	-14.0	SR 14-551	T-9/5	PL 20
A25R SVUNR/L-12	25.00	200.00	35.0	23.0	11.5	18.50	31.50	-6.5	-14.0	SR 14-551	T-9/5	PL 25
A32S SVUNR/L-12	32.00	250.00	50.0	29.0	14.5	23.00	37.00	-6.5	-14.0	SR 14-551	T-9/5	PL 32

• For inserts with corner radius of 0.8 mm and larger, seat needs to be modified to ensure clearance.  
For inserts, see pages: VNMG-F3M (164) • VNMG-F3P (163) • VNMG-F3S (164) • VNMG-FNF-CERMET (165) • VNMG-M3M (164) • VNMG-SF (165)  
• VNMG/VNGG-NF (165) • VNMM-PP (166)

## ISOTURN

### A-SVLFNR-AL-JHP

Screw Lock Boring Bars  
Carrying 35° Rhombic  
Inserts with 7° Clearance



Designation	DCONMS	LF	LDRED	H	WF	DMIN	GAMP	GAMF	MIID <sup>(1)</sup>
A40U SVLFNR-22-AL-JHP	40.00	350.00	60.0	36.0	22.50	48.00	4.5	11.0	VNGU 220630-R3N

<sup>(1)</sup> Master insert identification  
For inserts, see pages: VNGU-R3N (210)

### Spare Parts

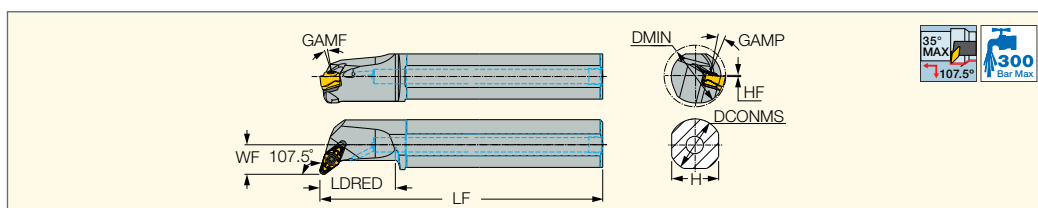
Designation										
A40U SVLFNR-22-AL-JHP	TVX 2230 <sup>(a)</sup>	SR 14-591/L-SN	HW 3.0	PL 40	SW6-T-SH	BLD T20/S7	SR TC-4	TVX 2212 <sup>(b)*</sup>	TVX 2216 <sup>(c)*</sup>	

\* Optional, should be ordered separately  
<sup>(a)</sup> For VNGU 220630-R3N insert  
<sup>(b)</sup> For VNGU 220612-R3N insert  
<sup>(c)</sup> For VNGU 220616-R3N insert

## ISOTURN

### A-SVQNR/L-AL-JHP

Screw Lock Boring Bars  
Carrying 35° Rhombic Inserts



Designation	DCONMS	LF	LDRED	H	HF	WF	DMIN	GAMP	GAMF	MIID <sup>(1)</sup>
A40U SVQNR/L-22-AL-JHP	40.00	348.10	60.0	36.0	0.1	23.40	49.00	14.5	6.5	VNGU 220630-R3N

<sup>(1)</sup> Master insert identification  
For inserts, see pages: VNGU-R3N (210)

### Spare Parts

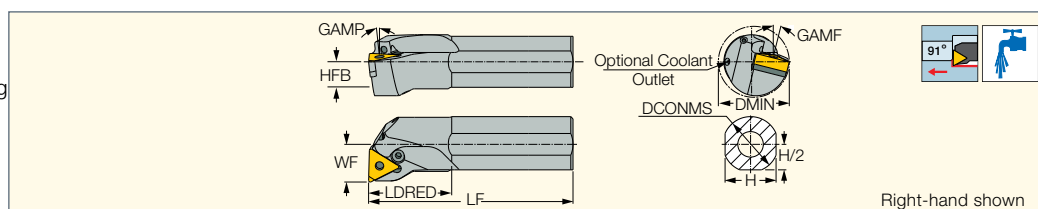
Designation										
A40U SVQNR/L-22-AL-JHP	TVX 2230 <sup>(a)</sup>	SR 14-591/L-SN	HW 3.0	SW6-T-SH	BLD T20/S7	PL 40	SR TC-4	TVX 2212 <sup>(b)*</sup>	TVX 2216 <sup>(c)*</sup>	

\* Optional, should be ordered separately  
<sup>(a)</sup> For VNGU 220630-R3N insert  
<sup>(b)</sup> For VNGU 220612-R3N insert  
<sup>(c)</sup> For VNGU 220616-R3N insert

## HELITURN LD

### A-PTFNR/L-X/G

91° Lead Angle Lever Lock Boring  
Bars Carrying Negative TNMX  
or TNMG Triangular Inserts



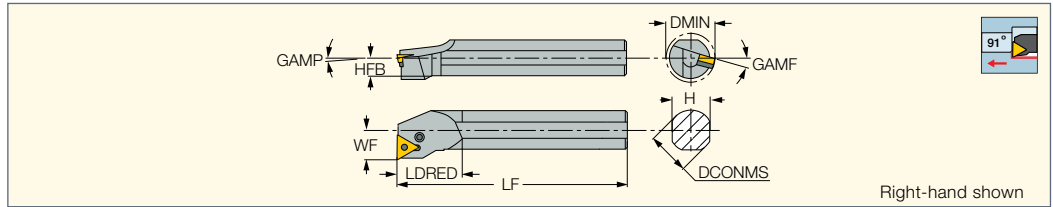
Designation	DCONMS	LF	LDRED	H	HFB	WF	GAMP	GAMF	DMIN	Insert
A16M PTFNR/L-16G	16.00	150.00	31.0	15.0	7.5	11.00	-12.0	-16.0	20.00	TNMG 1604
A20Q PTFNR/L-16G	20.00	180.00	31.0	18.0	9.0	13.00	-6.0	-14.0	25.00	TNMG 1604
A25S PTFNR/L-16X	25.00	250.00	37.5	23.0	11.5	17.00	-6.0	-14.0	32.00	TNMX 1606, TNMG 1604
A32T PTFNR/L-16X	32.00	300.00	48.0	29.0	14.5	22.00	-6.0	-12.0	40.00	TNMX 1606, TNMG 1604
A40U PTFNR/L-16X	40.00	350.00	50.0	36.0	18.0	27.00	-6.0	-12.0	50.00	TNMX 1606, TNMG 1604

• Use TTX 3 seat for TNMX 1606.. inserts and TTN 3 seat for TNMG 1604.. inserts  
For inserts, see pages: TNGA-J(CBN) (233) • TNMG-F3S (169) • TNMX-M3/4PW (167) • TNMX-M3/4MW (168) • TNMG-F3P (167) • TNMG-M3P (167) • TNMG-F3M (168) • TNMG-M3M (168) • TNMG-FFG-CERMET (169) • TNGG-M3N (210) • TNMG-TF (170) • TNMG-GN (171) • TNMG/TNGG-PP (171) • TNMG-VL (170) • TNMG-PF (170) • TNMG-SF (169) • TNMG-NF (171) • TNMS-12 (214) • TNMA (172) • TNGA-Ceramic (219) • TNGA-M3 (CBN) (234) • TNGA-MC/M6 (CBN) (233) • TNMA (CBN) (233)

### Spare Parts

Designation										
A16M PTFNR/L-16G					LR 3S	SR 117-2009			HW 2.0	PL 16
A20Q PTFNR/L-16G					LR 3S	SR 117-2009	SR M4X4 DIN913 TL360		HW 2.0	PL 20
A25S PTFNR/L-16X	TTX 3	TTN 3	SP 3	PN 3-4	LR 3	SR 117-2014	SR M4X4 DIN913 TL360		HW 2.5	PL 25
A32T PTFNR/L-16X	TTX 3	TTN 3	SP 3	PN 3-4	LR 3	SR 117-2014	SR M4X4 DIN913 TL360		HW 2.5	PL 32
A40U PTFNR/L-16X	TTX 3	TTN 3	SP 3	PN 3-4	LR 3	SR 117-2014	SR M4X4 DIN913 TL360		HW 2.5	PL 40

**S-PTFNR/L**  
 91° Lead Angle Lever  
 Lock Boring Bars Carrying  
 Negative Triangular Inserts



Designation	DCONMS	LF	LDRED	H	HFB	WF	GAMP	GAMF	DMIN	Insert
<b>S20R PTFNR/L-11</b>	20.00	200.00	32.0	18.0	9.0	13.00	-6.0	-14.0	24.00	TNMG 1103
<b>S25S PTFNR/L-16</b>	25.00	250.00	48.0	23.0	11.5	17.00	-6.0	-13.0	32.50	TNMG 1604
<b>S32T PTFNR/L-16</b>	32.00	300.00	63.0	30.0	15.0	22.00	-6.0	-10.0	40.00	TNMG 1604
<b>S40U PTFNR-22</b>	40.00	350.00	62.0	36.0	18.0	27.00	-6.0	-10.0	49.00	TNMG 2204

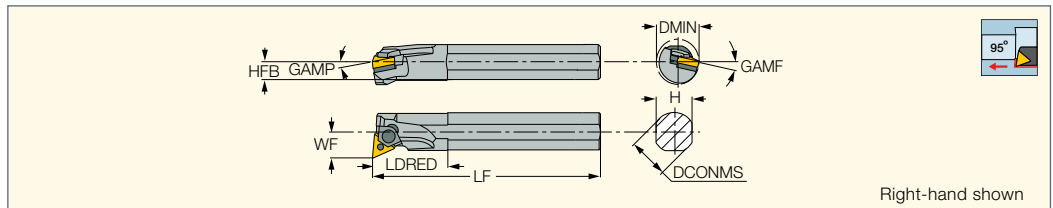
For inserts, see pages: TNGA-J(CBN) (233) • TNGG-M3N (210) • TNMG-F3S (169) • TNMG-FFG-CERMET (169) • TNMG-F3P (167) • TNMG-M3P (167) • TNMG-F3M (168) • TNMG-M3M (168) • TNMG-TF (170) • TNMG-GN (171) • TNMM-NR (172) • TNMG/TNGG-PP (171) • TNMG-VL (170) • TNMG-PF (170) • TNMG-SF (169) • TNMG-NF (171) • TNMS-12 (214) • TNMA (172) • TNGA-Ceramic (219) • TNGA-M3 (CBN) (234) • TNGA-MC/M6 (CBN) (233) • TNMA (CBN) (233)

**Spare Parts**

Designation							
<b>S20R PTFNR/L-11</b>				LR 2	SR 117-2015	HW 2.0/5	
<b>S25S PTFNR/L-16</b>	TTN 322	TTN 332*	SP 3	LR 3	SR 117-2014	HW 2.5/5	PN 3-4
<b>S32T PTFNR/L-16</b>	TTN 322	TTN 332*	SP 3	LR 3	SR 117-2014	HW 2.5/5	PN 3-4
<b>S40U PTFNR-16</b>	TTN 322		SP 3	LR 3	SR 117-2014	HW 2.5/5	PN 3-4
<b>S40U PTFNR-22</b>	TTN 422		SP 4	LR 4	SR 117-2010	HW 3.0	PN 3-4

\* Optional, should be ordered separately

**S-MTLNR/L-W**  
 95° Lead Angle Wedge  
 Lock Boring Bars Carrying  
 Negative Triangular Inserts



Designation	DCONMS	LF	LDRED	H	HFB	WF	GAMP	GAMF	DMIN	Insert
<b>S25S MTLNR/L-16W-M</b>	25.00	250.00	40.0	23.0	11.5	17.00	-6.0	-12.0	32.00	TNMG 1604
<b>S32T MTLNR/L-16W-M</b>	32.00	300.00	50.0	30.0	15.0	22.00	-6.0	-12.0	40.00	TNMG 1604
<b>S40U MTLNR/L-22W</b>	40.00	350.00	50.0	36.0	18.0	27.00	-6.0	-10.0	49.00	TNMG 2204

For inserts, see pages: TNGA-J(CBN) (233) • TNGG-M3N (210) • TNMG-F3S (169) • TNMG-FFG-CERMET (169) • TNMG-F3P (167) • TNMG-M3P (167) • TNMG-F3M (168) • TNMG-M3M (168) • TNMG-TF (170) • TNMG-GN (171) • TNMM-NR (172) • TNMG/TNGG-PP (171) • TNMG-VL (170) • TNMG-PF (170) • TNMG-SF (169) • TNMG-NF (171) • TNMA (172) • TNGA-Ceramic (219) • TNGA-M3 (CBN) (234) • TNGA-MC/M6 (CBN) (233) • TNMA (CBN) (233)

**Spare Parts**

Designation								
<b>S25S MTLNR/L-16W-M</b>			ZNW 3WNS	SR 17-317NS		LC 291N CLAMP	HW 3.0	E RING N
<b>S32T MTLNR/L-16W-M</b>	TTT 322N	TTT 332N <sup>(a)</sup>	ZNW 3WN	SR 17-317N		LC 291N CLAMP	HW 3.0	E RING N
<b>S40U MTLNR/L-22W</b>		TTT 434	ZNW 4	SR 17-295	HW 2.5	LC 281 SET 1	HW 3.0	

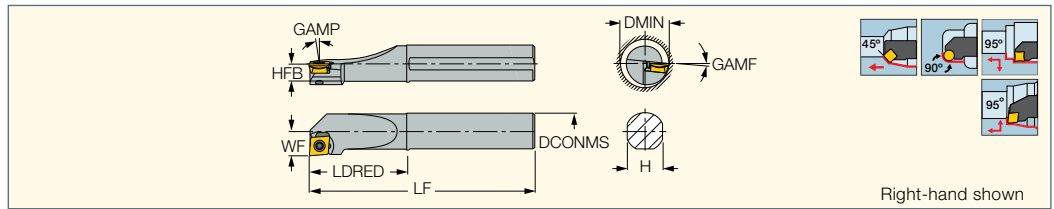
\* Optional, should be ordered separately

<sup>(a)</sup> Use for TNMG 1603.. inserts

## CHAMTURN

### S-SUXCR/L-CM

Screw Lock Boring Bars  
Carrying Four Different 7°  
Clearance Geometries

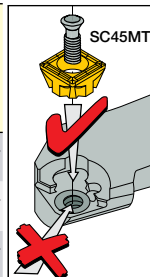


Right-hand shown

Designation	DCONMS	LF	LDRED	H	HFB	DMIN	GAMP	GAMF	WF
<b>S16Q SUXCR/L-10 CM</b>	16.00	180.00	45.0	15.0	7.5	20.00	0.0	-12.0	11.00
<b>S20R SUXCR/L-10 CM</b>	20.00	200.00	52.0	18.0	9.0	25.00	0.0	-6.0	13.00
<b>S25S SUXCR/L-10 CM</b>	25.00	250.00	55.0	23.0	11.5	32.00	0.0	-4.0	17.00

For inserts, see pages: CC95MT-SM (208) • SC45MT-SM (209)

Designation	DCONMS	LF	LDRED	H	HEB	DMIN	GAMP	GAMF	WF	Inserts
<b>S16Q SUXCR/L-10 CM</b>	16.00	180.00	45.0	15.0	7.5	20.00	0	-12	11	CC95MT... 12.14 SC45MT...
<b>S20R SUXCR/L-10 CM</b>	20.00	200.00	52.0	18.0	9.0	25.00	0	-6	13	CC95MT... 14.14 SC45MT...
<b>S25S SUXCR/L-10 CM</b>	25.00	250.00	55.0	23.0	11.5	32.00	0	-4	17	CC95MT... 18.14 SC45MT...





### Multifunction Tool Can Carry Two Different Inserts

- Unique, versatile ISCAR pocket
- For external applications
- Covers most common operations
- Simplifies tool selection
- Simple screw clamping
- Minimum spare parts

Clamping direction for SC45MT...

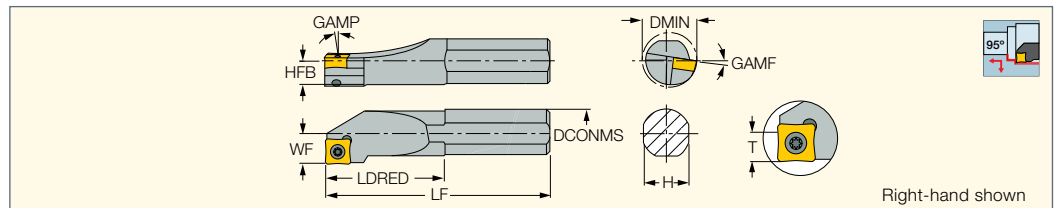
### Spare Parts

Designation		
<b>S-SUXCR/L-CM</b>	SR 14-544/S	T-15/5

## ISOTURN

### S/A-SQLCR/L

Screw Lock Boring Bars  
Carrying 80° Square Inserts  
with 7° Clearance





Right-hand shown

Designation	DCONMS	LF	LDRED	H	HFB	WF	T	GAMP	GAMF	DMIN	CSP <sup>(1)</sup>	Insert
<b>S16Q SQLCR/L-09</b>	16.00	180.00	45.0	15.0	7.5	11.00	8.5	0.0	-12.0	20.00	0	QCMT 09T304
<b>S20R SQLCR-09</b>	20.00	200.00	45.0	15.0	7.5	13.00	8.5	0.0	-6.0	25.00	0	QCMT 09T304
<b>S25S SQLCR-09</b>	25.00	250.00	55.0	15.0	7.5	17.00	8.5	0.0	-6.0	32.00	0	QCMT 09T304

<sup>(1)</sup> 0 - Without coolant supply, 1 - With coolant supply

For inserts, see pages: QCMT-PF (203) • QCMT-SM (203)

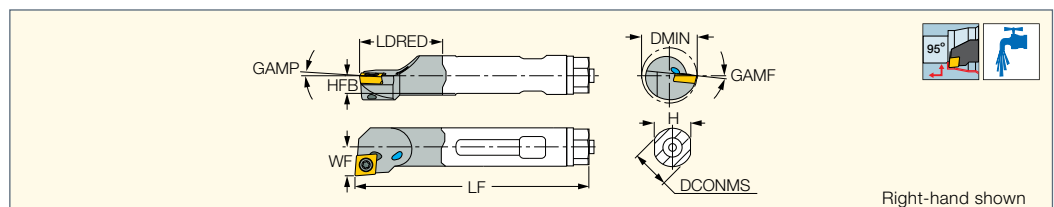
### Spare Parts

Designation		
<b>S/A-SQLCR/L</b>	SR 16-236	T-15/5



## ISOTURN

### E-SCLCR/L-HEAD

Screw Clamped Boring Heads  
Carrying 80° Rhombic Inserts  
with Positive 7° Clearance  
Mounted on Carbide Bars



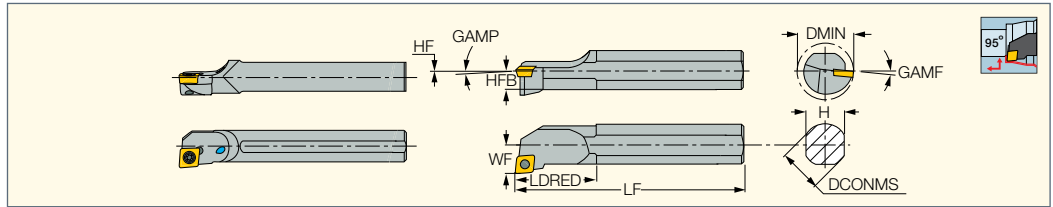
Right-hand shown

Designation	DCONMS	LF	LDRED	H	HFB	WF	GAMP	GAMF	DMIN	Insert		
<b>E12 SCLCR/L-06 HEAD</b>	12.00	179.00	24.8	11.0	5.5	9.00	0.0	-7.0	15.80	CCMT/CCGT 0602	SR 14-548	T-7/5
<b>E16 SCLCR-09 HEAD</b>	16.00	200.00	37.0	15.0	7.5	11.00	0.0	-9.0	20.00	CCMT/CCGT 09T3	SR 16-236	T-15/5

For inserts, see pages: CCMT-CERMET (187) • CCMT-F3P (185) • CCMT-M3P (185) • CCMT-F3M (186) • CCMT-M3M (186) • CCMT-PF (188)

• CCMT/CCGT-SM (187) • CCET-WF (189) • CCMT-WG (189) • CCGT-AS (212) • CCGT-AF (212) • CCMT-14 (188) • CCMT/CCGT (188) • CCGW/CCMT (CBN) (227) • CCGW/CCMW-2 (CBN) (228) • CCMT (PCD) (222)

**A/E/S-SCLCR/L**  
Screw Lock Boring Bars  
Carrying 80° Rhombic Inserts  
with 7° Clearance for 20 mm  
Minimum Bore Diameter



Designation	DCONMS	LF	LDRED	WF	H	HFB	HF	DMIN	CSP <sup>(1)</sup>	GAMP	GAMF	TQ	Insert
A04F SCLCR/L-03	4.00	80.00	8.0	2.50	3.8	1.9	0.0	5.00	1	0.0	-15.0	0.6	CCGT 03X1
A05F SCLCR/L-03	5.00	80.00	9.0	3.00	4.8	2.4	0.0	6.00	1	0.0	-13.0	0.6	CCGT 03X1
A06G SCLCR/L-04	6.00	90.00	10.0	3.50	5.8	2.9	0.0	7.00	1	0.0	-13.0	0.6	CCGT 04T1
A07G SCLCR/L-04	7.00	90.00	11.0	4.00	6.8	3.4	0.0	8.00	1	0.0	-11.0	0.6	CCGT 04T1
A20R SCLCR/L-09	20.00	200.00	35.0	13.00	18.0	9.0	0.0	25.00	1	0.0	-4.0	3.0	CC.. 09T3
A25S SCLCR/L-09	25.00	250.00	35.0	17.00	23.0	11.5	0.0	32.00	1	0.0	-4.0	3.0	CC.. 09T3
E04G SCLCR/L-03	4.00	90.00	9.0	2.50	3.8	1.9	0.0	5.00	1	0.0	-15.0	0.6	CCGT 03X1
E05G SCLCR/L-03	5.00	90.00	10.0	3.00	4.8	2.4	0.0	6.00	1	0.0	-13.0	0.6	CCGT 03X1
E06H SCLCR/L-04	6.00	100.00	12.0	3.50	5.8	2.9	0.0	7.00	1	0.0	-13.0	0.6	CCGT 04T1
E07H SCLCR/L-04	7.00	100.00	14.0	4.00	6.8	3.4	0.0	8.00	1	0.0	-11.0	0.6	CCGT 04T1
E08K SCLCR/L-06	8.00	125.00	-	5.00	7.6	3.8	0.0	10.00	1	3.0	-11.0	1.0	CC.. 0602
E10M SCLCR/L-06	10.00	150.00	-	7.00	9.2	4.6	0.0	14.00	1	3.0	-7.0	1.0	CC.. 0602
E12Q SCLCR/L-06	12.00	180.00	-	9.00	11.0	5.5	0.0	16.00	1	0.0	-7.0	1.0	CC.. 0602
E16R SCLCR/L-06	16.00	200.00	-	11.00	14.0	7.0	0.0	20.00	1	0.0	-7.0	1.0	CC.. 0602
E16R SCLCR/L-09	16.00	200.00	-	11.00	15.0	7.5	0.0	20.00	1	0.0	-6.0	3.0	CC.. 09T3
S08K SCLCR/L-06	8.00	125.00	12.0	5.00	8.0	3.8	0.0	10.50	0	0.0	-11.0	1.0	CC.. 0602
S10L SCLCR/L-06	10.00	140.00	20.0	7.00	9.0	4.5	0.0	13.00	0	0.0	-7.0	1.0	CC.. 0602
S10L SCLCR/L-06	10.00	140.00	20.0	7.00	9.0	4.5	0.0	13.00	0	3.0	-7.0	1.0	CC.. 0602
S12M SCLCR/L-06	12.00	150.00	12.0	9.00	12.0	5.5	0.0	16.00	0	0.0	-7.0	1.0	CC.. 0602
S16Q SCLCR/L-09	16.00	180.00	45.0	11.00	15.0	7.5	0.0	20.00	0	0.0	-6.0	3.0	CC.. 09T3
S20R SCLCR/L-09	20.00	200.00	50.0	13.00	18.0	9.0	0.0	25.00	0	0.0	-4.0	3.0	CC.. 09T3
S25S SCLCR/L-09	25.00	250.00	55.0	17.00	23.0	11.5	0.0	35.00	0	0.0	-4.0	3.0	CC.. 09T3

• S - steel shank, A - steel shank with coolant hole, E - carbide shank with coolant hole

(1) 0 - Without coolant supply, 1 - With coolant supply

For inserts, see pages: • CCGT-F1M-20P (185) • CCMT-CERMET (187) • CCGT-F1P (184) • CCMT-F3P (185) • CCMT-M3P (185) • CCMT-F3M (186) • CCMT-M3M (186) • CCMT-PF (188) • CCMT/CCGT-SM (187) • CCET-WF (189) • CCMT-WG (189) • CCGT-AS (212) • CCGT-AF (212) • CCMT-14 (188) • CCMT/CCGT (188) • CCGW/CCMT (CBN) (227) • CCGW/CCMW-2 (CBN) (228) • CCMT (PCD) (222)



**Spare Parts**

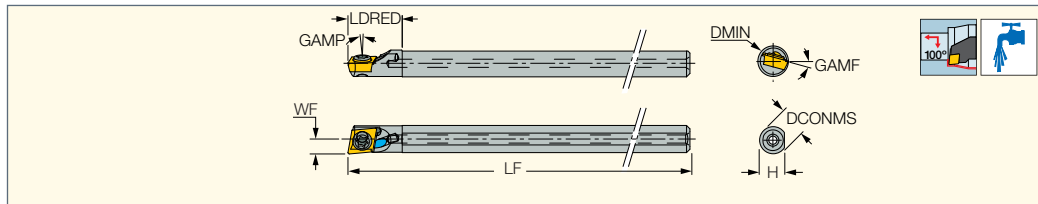
Designation				
A04F SCLCR/L-03	CSTA-1.6	T-6F		
A05F SCLCR/L-03	CSTA-1.6	T-6F		
A06G SCLCR/L-04	CSTB-2	T-6F		
A07G SCLCR/L-04	CSTB-2	T-6F		
A20R SCLCR/L-09	SR 16-236	T-15/5	HW 2.0	PL 20
A25S SCLCR/L-09	SR 16-236	T-15/5	HW 2.0	PL 25
E04G SCLCR/L-03	CSTA-1.6	T-6F		
E05G SCLCR/L-03	CSTA-1.6	T-6F		
E06H SCLCR/L-04	CSTB-2	T-6F		
E07H SCLCR/L-04	CSTB-2	T-6F		
E08K SCLCR/L-06	SR 14-548	T-7/5		
E10M SCLCR/L-06	SR 14-548	T-7/5		
E12Q SCLCR/L-06	SR 14-548	T-7/5		
E16R SCLCR/L-06	SR 14-548	T-7/5		
E16R SCLCR/L-09	SR 16-236	T-15/5		
S08K SCLCR/L-06	SR 14-548	T-7/5		
S10L SCLCR/L-06	SR 14-548	T-7/5		
S12M SCLCR/L-06	SR 14-548	T-7/5		
S16Q SCLCR/L-09	SR 16-236/L8.6	T-15/5		
S20R SCLCR/L-09	SR 16-236	T-15/5		
S25S SCLCR/L-09	SR 16-236	T-15/5		



**ISOTURN**

**A/E-SEXPR/L-03**

Screw Lock Boring Bars  
Carrying 75° Rhombic Inserts  
with 11° Clearance for 4.5 mm  
Minimum Bore Diameter



Designation	DCONMS	LF	LDRED	H	WF	DMIN	GAMP	GAMF	Insert		
A04F SEXPR/L-03	4.00	80.00	8.0	3.8	2.30	4.50	0.0	-15.0	EPGT03	CSTA-1.6	T-6F
E04G SEXPR/L-03	4.00	90.00	9.0	3.8	2.30	4.50	0.0	-15.0	EPGT03	CSTA-1.6	T-6F

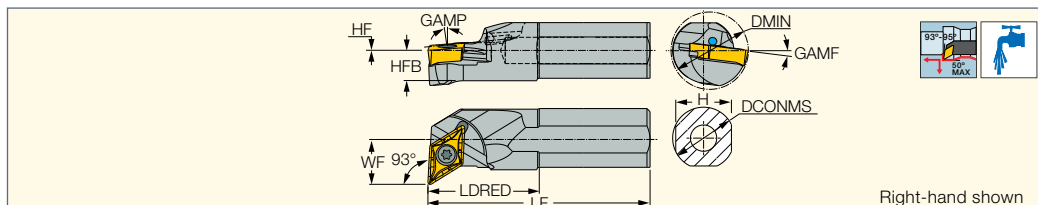
• A - steel shank with coolant hole, E - carbide shank with coolant hole

For inserts, see pages: EPGT-F1P (189)

**ISOTURN**

**A-SDUCR/L-13-SL**

Boring Bars Carrying 55°  
Rhombic Inserts with 7°  
Clearance Angle for High Rigidity  
in Profiling Applications



Designation	DCONMS	LF	LDRED	H	HFB	WF	HF	DMIN	GAMP	GAMF	Shank m. <sup>(1)</sup>	Insert
A20R SDUCR/L-13-SL	20.00	200.00	36.0	18.0	9.1	14.50	0.1	25.00	0.0	-7.0	S	DCMT 13T5-SL
A25S SDUCR/L-13-SL	25.00	250.00	45.0	23.0	11.5	17.00	0.0	32.00	0.0	-6.0	S	DCMT 13T5-SL

<sup>(1)</sup> S-Steel

For inserts, see pages: DCMT-F3P-SL (190) • DCMT-M3M-SL (191) • DCMT-PF-SL (193) • DCMT-SM-SL (193)

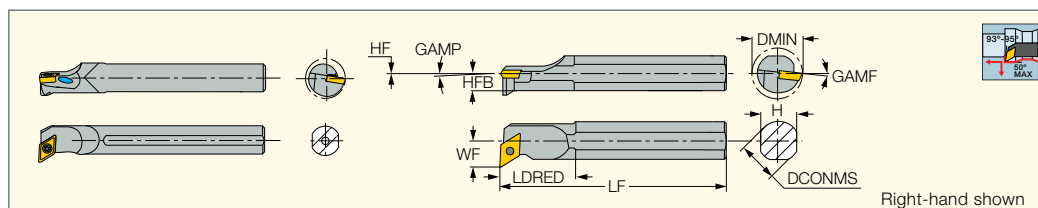
**Spare Parts**

Designation			
A20R SDUCR/L-13-SL	SR M4X0.7-L9.6 IP15	TORX PLUS IP15X45	PL 20
A25S SDUCR/L-13-SL	SR M4X0.7-L9.6 IP15	TORX PLUS IP15X45	PL 25

**ISOTURN**

**A/E/S-SDUCR/L**

Screw Lock Boring Bars  
Carrying 55° Rhombic  
Inserts with 7° Clearance



Designation	DCONMS	LF	LDRED	H	HFB	WF	HF	DMIN	GAMP	GAMF	Shank m. <sup>(1)</sup>	CSP <sup>(2)</sup>	Insert
A20R SDUCR/L-11	20.00	200.00	50.0	18.0	8.5	14.50	-0.5	25.00	0.0	-6.0	S	1	DC.. 11T3
A25S SDUCR/L-11	25.00	250.00	45.0	23.0	12.0	17.00	0.5	32.00	0.0	-5.0	S	1	DC.. 11T3
E10M SDUCR/L-07	10.00	150.00	25.0	9.2	5.1	8.00	0.5	14.00	3.0	-7.0	C	1	DC.. 0702
E12Q SDUCR/L-07	12.00	180.00	-	11.0	5.5	9.00	0.0	16.00	0.0	-7.0	C	1	DC.. 0702
E16R SDUCR/L-07	16.00	200.00	-	15.0	8.1	11.00	0.6	20.00	0.0	-8.0	C	1	DC.. 0702
S10L SDUCR/L-07	10.00	140.00	18.0	9.2	5.0	8.00	0.4	14.00	-3.0	-9.0	S	0	DC.. 0702
S12M SDUCR/L-07	12.00	150.00	20.0	12.0	5.5	9.00	-0.5	16.00	-7.0	-9.0	S	0	DC.. 0702
S16Q SDUCR/L-07	16.00	180.00	25.0	15.0	8.0	11.00	0.5	20.00	0.0	-8.0	S	0	DC.. 0702
S20R SDUCR/L-11	20.00	200.00	50.0	18.0	8.5	13.00	-0.5	25.00	0.0	-6.0	S	0	DC.. 11T3
S25S SDUCR/L-11	25.00	250.00	55.0	23.0	12.0	17.00	0.5	32.00	0.0	-5.0	S	0	DC.. 11T3

• S - steel shank, A - steel shank with coolant hole, E - carbide shank with coolant hole

<sup>(1)</sup> S-Steel, C-carbide

<sup>(2)</sup> 0 - Without coolant supply, 1 - With coolant supply

For inserts, see pages: DCGT-F1M-20P (192) • DCMT-F3P (190) • DCMT-M3M (191) • DCMT/DCGT-PF (193) • DCMT/DCGT-SM (194) • DCET-WF (195)

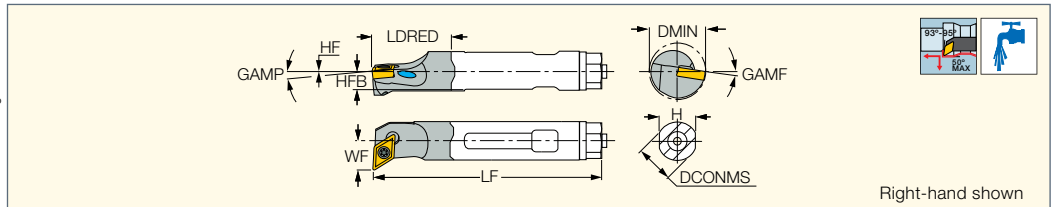
• DCGT-AS (213) • DCGT-AF (213) • DCMT-14 (194) • DCMT/DCGT (194) • DCGW/DCMW-2 (CBN) (230) • DCMT (CBN) (230) • DCMT (PCD) (222) • DCMT-CERMET (192)

**Spare Parts**

Designation						
A20R SDUCR/L-11			HW 2.0	SR 16-236 P	T-15/5	PL 20
A25S SDUCR/L-11			HW 2.0	SR 16-236 P	T-15/5	PL 25
E10M SDUCR/L-07				SR 14-548	T-7/5	
E12Q SDUCR/L-07				SR 14-548	T-7/5	
E16R SDUCR/L-07				SR 14-548	T-7/5	
S10L SDUCR/L-07				SR 14-548	T-7/5	
S12M SDUCR/L-07				SR 14-548	T-7/5	
S16Q SDUCR/L-07				SR 14-548	T-7/5	
S20R SDUCR/L-11				SR 16-236 P	T-15/5	
S25S SDUCR/L-11	TDC 3-1P	SR TC-3P	HW 4.0	SR 16-236 P	T-15/5	

**E-SDUCR/L-HEAD**

Interchangeable Screw Clamped Boring Heads Carrying Positive 7° Clearance 55° Rhombic Inserts Mounted on Carbide Bars

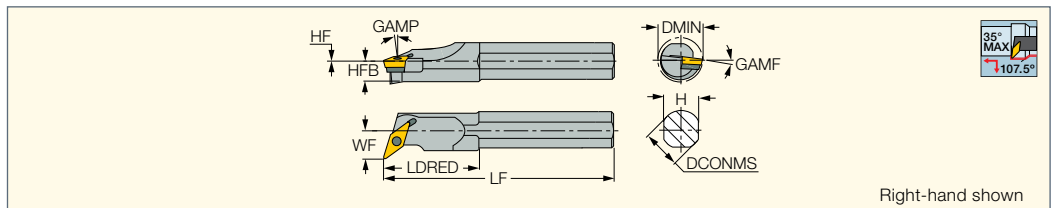


Designation	DCONMS	LF	LDRED	H	HFB	WF	HF	GAMP	GAMF	DMIN	Insert		
<b>E12 SDUCR/L-07 HEAD</b>	12.00	179.00	24.8	11.0	5.5	9.00	0.0	0.0	-9.0	15.80	DCMT/DCGT 0702	SR 14-548	T-7/5
<b>E16 SDUCR/L-07 HEAD</b>	16.00	200.00	29.7	15.0	8.0	11.00	0.5	0.0	-9.0	20.00	DCMT/DCGT 0702	SR 14-548	T-7/5

For inserts, see pages: • DCGT-F1M-20P (192) • DCMT-F3P (190) • DCMT-M3M (191) • DCMT/DCGT-PF (193) • DCMT/DCGT-SM (194) • DCET-WF (195)  
 • DCGT-AS (213) • DCMT/DCGT (194) • DCGW/DCMW-2 (CBN) (230)

**A/S-SVQCR/L**

Screw Lock Boring Bars Carrying 35° Rhombic Inserts with 7° Clearance



Designation	DCONMS	LF	LDRED	H	HFB	WF	HF	DMIN	GAMP	GAMF	CSP <sup>(1)</sup>	Insert
<b>S25S SVQCR/L-16</b>	25.00	250.00	61.0	23.0	12.0	17.00	0.5	32.00	0.0	-5.0	0	VC.. 1604
<b>S32T SVQCR/L-16</b>	32.00	300.00	70.0	30.0	15.0	22.00	0.0	40.00	0.0	-5.0	0	VC.. 1604
<b>A40U SVQCR/L-22</b>	40.00	350.00	64.0	36.0	18.0	27.00	0.0	47.50	0.0	-8.0	1	VCGT 2205

<sup>(1)</sup> 0 - Without coolant supply, 1 - With coolant supply

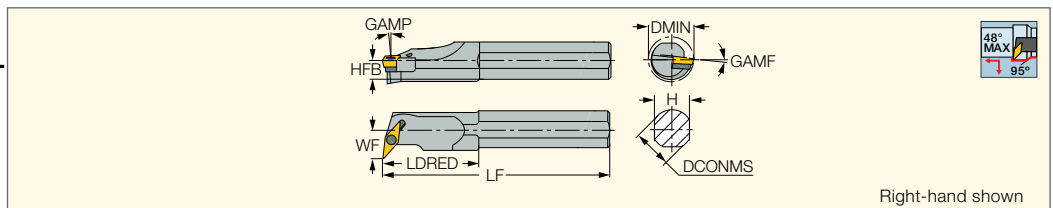
For inserts, see pages: VCMT-FPC-CERMET (196) • VCMT-F3P (195) • VCGW-2 (CBN) (232) • VCMT-F3M (195) • VCMT-M3M (196) • VCMT-SM (197) • VCGT-AS (211)  
 • VCGT-AF (212) • VCMT-14 (198) • VCMW (198) • VCMT (CBN) (222) • VCGT (PCD) (223) • VCGT-DW (PCD) (223)

**Spare Parts**

Designation						
<b>S25S SVQCR/L-16</b>	SR 16-236 P	T-15/5				
<b>S32T SVQCR/L-16</b>	SR 16-236 P	T-15/5	TVC 3-1P	SR TC-3P	HW 4.0	
<b>A40U SVQCR/L-22</b>	SR 14-536	T-20/5	TVC 22T330	SR TC-3	HW 2.5	PL 40

**A/S-SVLFCR/L; A-SVUCR/L**

Screw Lock Boring Bars Carrying 35° Rhombic Inserts with 7° Clearance



Designation	DCONMS	LF	LDRED	H	HFB	WF	DMIN	GAMP	GAMF	CSP <sup>(2)</sup>	Insert
<b>A32T SVUCR/L-16 <sup>(1)</sup></b>	32.00	300.00	50.0	29.0	14.5	22.00	40.00	0.0	-8.0	1	VC.. 1604
<b>S32T SVLFCR/L-16</b>	32.00	300.00	56.0	29.0	14.5	22.00	39.50	0.0	-8.0	0	VC.. 1604
<b>S40U SVLFCR/L-16</b>	40.00	350.00	-	36.0	18.0	27.00	49.00	0.0	-5.0	0	VC.. 1604
<b>A40U SVLFCR/L-22</b>	40.00	350.00	70.0	36.0	18.0	27.00	48.00	0.0	-8.0	1	VC.. 2205

<sup>(1)</sup> 93° approach angle

<sup>(2)</sup> 0 - Without coolant supply, 1 - With coolant supply

For inserts, see pages: VCMT-F3P (195) • VCMT-F3M (195) • VCMT-M3M (196) • VCMT-SM (197) • VCGT-AS (211) • VCGT-AF (212) • VCMT-14 (198) • VCMW (198)  
 • VCMT (CBN) (222) • VCGT (PCD) (223) • VCGT-DW (PCD) (223) • VCMT-FPC-CERMET (196) • VCGW-2 (CBN) (232)

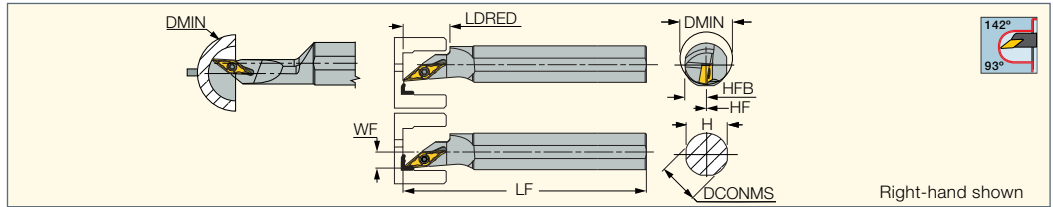
**Spare Parts**

Designation								
<b>A32T SVUCR/L-16</b>	TVC 3-1P	SR TC-3P	HW 1.5	HW 4.0	SR 16-236 P	PL 32	T-15/5	
<b>S32T SVLFCR/L-16</b>	TVC 3-1P	SR TC-3P	HW 4.0		SR 16-236 P		T-15/5	
<b>S40U SVLFCR/L-16</b>	TVC 3-1P	SR TC-3P	HW 4.0		SR 16-236 P		T-15/5	
<b>A40U SVLFCR/L-22</b>	TVC 22T330	SR TC-3	HW 2.5		SR 14-536	PL 40	T-20/5	

**ISOTURN**

**S/A-SVJCR/L**

Screw Lock Boring Bars  
Carrying 35° Rhombic  
Inserts with 7° Clearance



Designation	DCONMS	LF	LDRED	H	HFB	WF	HF	DMIN	CSP <sup>(2)</sup>	Insert
<b>A16R SVJCR/L-11</b>	16.00	200.00	47.5	15.0	7.5	8.50	0.0	20.00	1	VC.. 1103
<b>S16R SVJCR/L-11</b> <sup>(1)</sup>	16.00	200.00	20.0	15.0	8.0	7.00	0.5	19.00	0	VC.. 1103
<b>A20R SVJCR/L-11</b>	20.00	200.00	43.0	18.0	9.0	11.00	0.0	25.00	1	VC.. 1103
<b>S20R SVJCR/L-11</b>	20.00	200.00	37.0	19.0	9.5	2.00	0.0	25.00	0	VC.. 1103

<sup>(1)</sup> Cannot be used for internal sphere turning • Center height - 0.5mm above the center

<sup>(2)</sup> 0 - Without coolant supply, 1 - With coolant supply

For inserts, see pages: VCGT-F1M-20P (196) • VCMT-F3P (195) • VCMT-F3M (195) • VCMT-SM (197) • VCET-WF (197) • VCGT-AS (211)

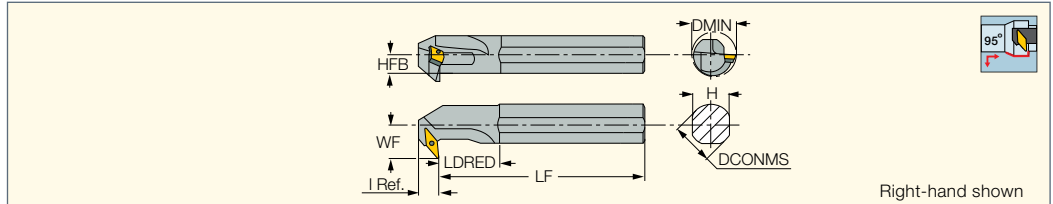
**Spare Parts**

Designation			
<b>A16R SVJCR/L-11</b>	SR 14-560/S	T-8/5	PL 16
<b>S16R SVJCR/L-11</b>	SR 14-560/S	T-8/5	
<b>A20R SVJCR/L-11</b>	SR 14-560	T-8/5	PL 20
<b>S20R SVJCR/L-11</b>	SR 14-560	T-8/5	

**ISOTURN**

**A/S-SVLBCR/L**

Screw Lock Back Boring  
Bars Carrying 35° Rhombic  
Inserts with 7° Clearance



Designation	DCONMS	LF	LDRED	I Ref.	H	HFB	WF	DMIN	CSP <sup>(1)</sup>	Insert
<b>A32T SVLBCL-16</b>	32.00	300.00	76.5	18.50	29.0	14.5	27.50	40.00	1	VC.. 1604
<b>A32T SVLBCR-16</b>	32.00	300.00	76.5	18.50	29.0	14.5	27.50	40.00	0	VC.. 1604
<b>S32T SVLBCR/L-16</b>	32.00	300.00	63.2	18.50	29.0	14.5	22.00	40.00	0	VC.. 1604
<b>S40U SVLBCR/L-16</b>	40.00	350.00	60.0	20.00	36.0	18.0	27.00	49.50	0	VC.. 1604

<sup>(1)</sup> 0 - Without coolant supply, 1 - With coolant supply

For inserts, see pages: VCMT-FPC-CERMET (196) • VCMT-F3P (195) • VCGW-2 (CBN) (232) • VCMT-F3M (195) • VCMT-M3M (196) • VCMT-SM (197) • VCGT-AS (211) • VCMT-14 (198) • VCMW (198) • VCMT (CBN) (222) • VCGT (PCD) (223) • VCGT-DW (PCD) (223)

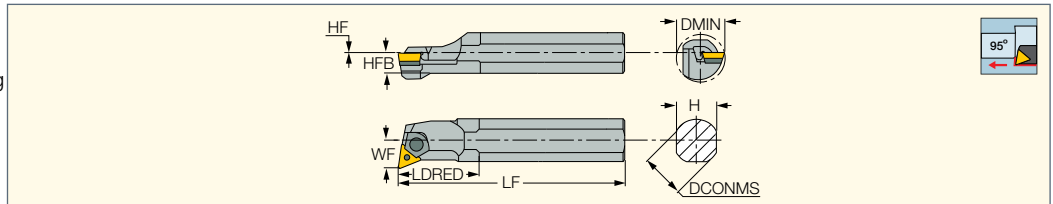
**Spare Parts**

Designation					
<b>A/S-SVLBCR/L</b>	TVC 3-1P	SR TC-3P	HW 4.0	SR 16-236 P	T-15/5

**ISOTURN**

**S-MTLCR/L-W**

Wedge Lock Boring Bars Carrying  
7° Clearance Triangular Inserts



Designation	DCONMS	LF	LDRED	H	HFB	WF	HF	DMIN	Insert
<b>S25S MTLCR/L-16W</b>	25.00	250.00	43.0	23.0	13.1	17.00	1.6	34.00	TC.. 16T3
<b>S32T MTLCR/L-16W</b>	32.00	300.00	45.0	29.0	14.5	22.00	0.0	39.00	TC.. 16T3

For inserts, see pages: TCMT-F3P (201) • TCMT-M3M (201) • TCMT-SM (202) • TCGT-AS (211)

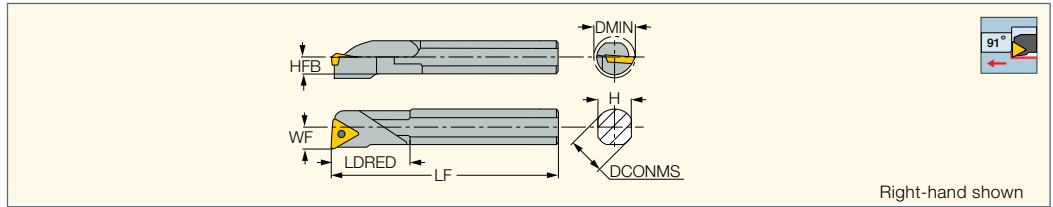
**Spare Parts**

Designation						
<b>S-MTLCR/L-W</b>	TTC 331	HW 2.0	ZNW 3C	LC 291-MIM SET 1	SR 17-319	HW 2.5

**ISOTURN**

**S-STFCR/L**

Screw Lock Boring Bars Carrying 7° Clearance Triangular Inserts



Right-hand shown

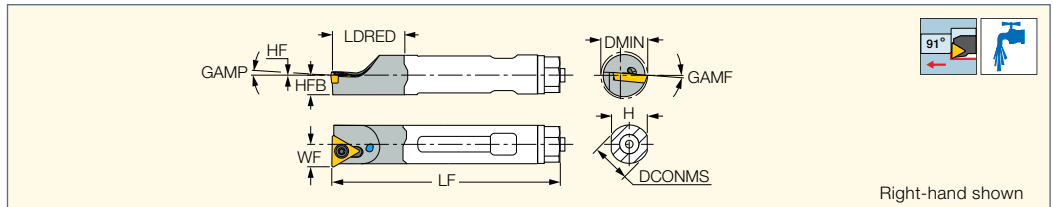
Designation	DCONMS	LF	LDRED	H	HFB	WF	DMIN	Insert		
<b>S10K STFCR/L-11</b>	10.00	125.00	29.0	9.0	4.5	7.00	13.00	TC.. 1102	SR 14-548	T-7/5
<b>S12M STFCR/L-11</b>	12.00	150.00	30.0	11.0	5.5	9.00	15.80	TC.. 1102	SR 14-548	T-7/5

For inserts, see pages: TCMT-F3P (201) • TCMT-M3M (201) • TCMT-PF (201) • TCMT-SM (202) • TCGT-AS (211) • TCMT (CBN) (234)  
 • TCMT (PCD) (223)

**ISOTURN**

**E-STFCR-HEAD**

Interchangeable Screw Clamped Boring Heads Carrying Positive 7° Clearance Triangular Inserts Mounted on Carbide Bars



Right-hand shown

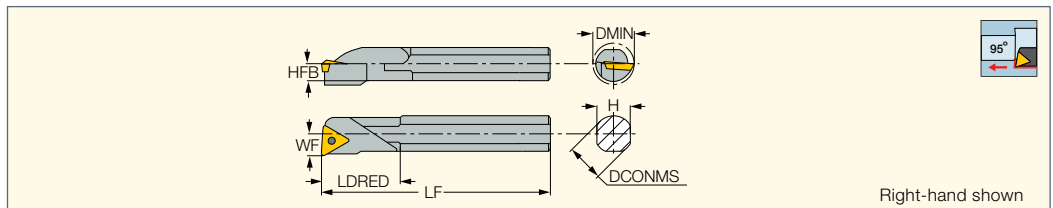
Designation	DCONMS	LF	LDRED	H	HFB	WF	HF	GAMP	GAMF	DMIN	Insert		
<b>E12 STFCR-11 HEAD</b>	12.00	179.00	24.8	11.0	6.0	6.80	0.0	0.0	-6.0	13.80	TCMT 1102	SR 14-548	T-7/5
<b>E16 STFCR-11 HEAD</b>	16.00	200.00	37.0	15.0	8.0	9.00	0.0	0.0	-6.0	20.00	TCMT 1102	SR 14-548	T-7/5

For inserts, see pages: TCMT-F3P (201) • TCMT-M3M (201) • TCMT-PF (201) • TCMT-SM (202) • TCGT-AS (211) • TCMT (CBN) (234)  
 • TCMT (PCD) (223)

**ISOTURN**

**S-STLCR/L**

Screw Clamp Boring Bars Carrying 7° Clearance Triangular Inserts



Right-hand shown

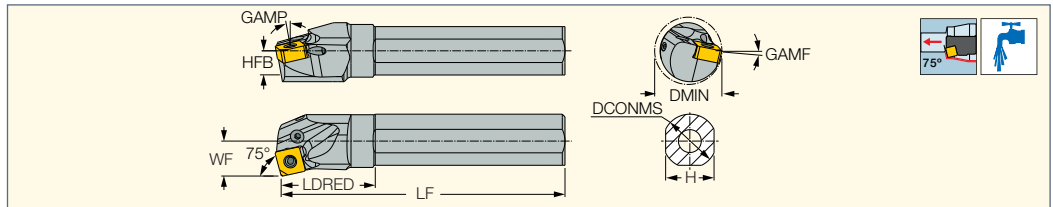
Designation	DCONMS	LF	LDRED	H	HFB	WF	DMIN	Insert		
<b>S16Q STLCR/L-11</b>	16.00	180.00	45.0	15.0	7.5	11.00	20.00	TC.. 1102	SR 14-548	T-7/5
<b>S20R STLCR/L-16</b>	20.00	200.00	50.0	18.0	9.0	13.00	25.00	TC.. 16T3	SR 16-236	T-15/5

For inserts, see pages: TCMT-F3P (201) • TCMT-M3M (201) • TCMT-PF (201) • TCMT-SM (202) • TCGT-AS (211) • TCMT (CBN) (234)  
 • TCMT (PCD) (223)

**ISOTURN**

**A-PSKNR/L-09**

Lever Lock Boring Bars Carrying 90° Negative Square Inserts



Designation	DCONMS	LF	LDRED	H	HFB	WF	GAMP	GAMF	DMIN	Insert
<b>A25R PSKNR/L-09</b>	25.00	200.00	35.0	23.0	11.5	17.00	-6.0	-15.0	32.00	SNMG 0903 SNMG 0904
<b>A32S PSKNR/L-09</b>	32.00	250.00	43.0	30.0	15.0	22.00	-6.0	-13.0	40.00	SNMG 0903 SNMG 0904

For inserts, see pages: SNMG-F3S (175) • SNMG-F3P (173) • SNMG-M3P (173) • SNMG-F3M (174) • SNMG-M3M (174)

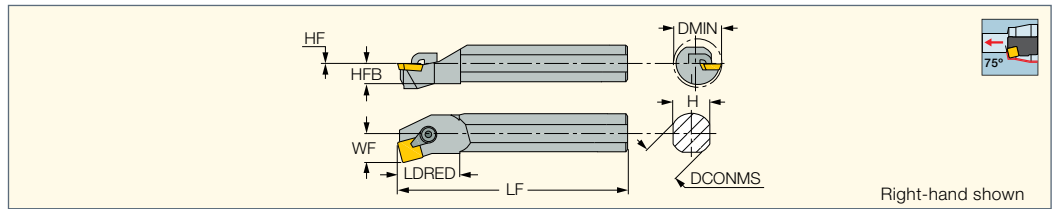
**Spare Parts**

Designation									
<b>A25R PSKNR/L-09</b>	TSN 323	TSN 333	SP 3	PN 3-3L	LR 3	SR 117-2014	HW 2.5	PL 25	
<b>A32S PSKNR/L-09</b>	TSN 323	TSN 333	SP 3	PN 3-3L	LR 3	SR 117-2014	HW 2.5	PL 32	

**ISOTURN**

**S-CSKPR**

Clamp Lock Boring Bars Carrying 11° Clearance Square Inserts



Right-hand shown

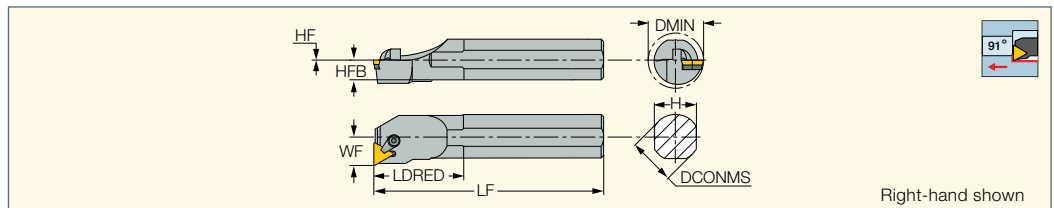
Designation	DCONMS	LF	LDRED	H	HFB	WF	HF	DMIN	Insert		
<b>S16Q CSKPR-09</b>	16.00	180.00	34.0	15.0	8.0	11.00	0.5	20.00	SPMR 0903	LC 15 SET 1	HW 2.5
<b>S25S CSKPR-12</b>	25.00	250.00	48.0	23.0	11.5	17.00	0.0	30.00	SPMR 1203	LC 30 SET 2	HW 3.0

For inserts, see pages: SPMR (204)

**ISOTURN**

**S-CTFPR/L**

Clamp Lock Boring Bars Carrying 11° Clearance Triangular Inserts



Right-hand shown

Designation	DCONMS	LF	LDRED	H	HFB	WF	HF	DMIN	Insert
<b>S12L CTFPR/L-09</b>	12.00	140.00	34.0	11.0	6.0	9.00	0.5	15.60	TPMR 0902
<b>S16Q CTFPR/L-11</b>	16.00	180.00	38.0	15.0	8.0	11.00	0.5	20.00	TPMR 1103
<b>S20Q CTFPR-16</b>	20.00	180.00	38.0	18.0	9.5	13.00	0.5	24.00	TPMR 1603
<b>S20R CTFPR/L-16</b>	20.00	200.00	46.0	18.0	9.5	13.00	0.5	24.00	TPMR 1603
<b>S25R CTFPR-16</b>	25.00	200.00	48.0	23.0	11.5	17.00	0.0	31.00	TPMR 1603
<b>S25S CTFPR-16</b>	25.00	250.00	48.0	23.0	11.5	17.00	0.0	31.00	TPMR 1603
<b>S32T CTFPR/L-16</b>	32.00	300.00	62.0	29.0	14.5	22.00	0.0	40.00	TPMR 1603
<b>S40T CTFPR-16</b>	40.00	300.00	62.0	36.0	18.0	27.00	0.0	48.00	TPMR 1603

For inserts, see pages: TPGN-Ceramic (220) • TPMR (204) • TPMR-FTF (205) • TPMR-PF (204)

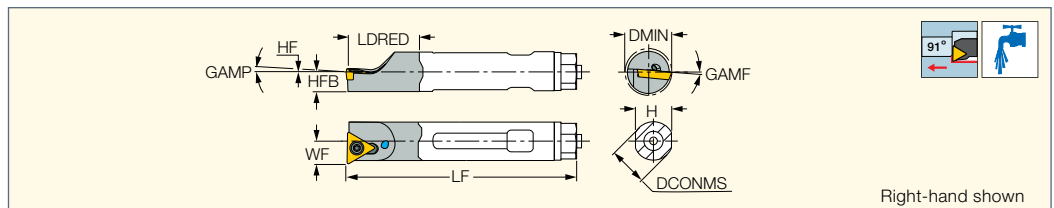
**Spare Parts**

Designation				
<b>S12L CTFPR/L-09</b>	LC12 SET1	HW 2.5		
<b>S16Q CTFPR/L-11</b>	LC 15 SET 1	HW 2.5		
<b>S20Q CTFPR-16</b>	LC 30 SET 2	HW 3.0		
<b>S20R CTFPR/L-16</b>	LC 30 SET 2	HW 3.0		
<b>S25R CTFPR-16</b>	LC 30 SET 2	HW 3.0		
<b>S25S CTFPR-16</b>	LC 30 SET 2	HW 3.0		
<b>S32T CTFPR/L-16</b>	LC 30 SET 1	HW 3.0	ITBP 122	SP 16
<b>S40T CTFPR-16</b>	LC 30 SET 1	HW 3.0	ITBP 122	SP 16

**ISOTURN**

**E-STFPR-HEAD**

Interchangeable Boring Heads Carrying Positive 11° Clearance Triangular Inserts on a Carbide Bar

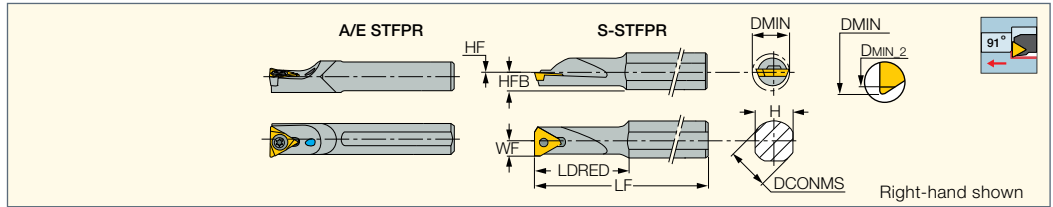


Right-hand shown

Designation	DCONMS	LF	LDRED	H	HFB	WF	HF	GAMP	GAMF	DMIN	Insert		
<b>E12 STFPR-11 HEAD</b>	12.00	179.00	24.8	11.0	6.0	6.80	0.0	4.0	-6.0	13.00	TPMT/TPGH 1102	SR 14-505	T-7/5
<b>E16 STFPR-11 HEAD</b>	16.00	200.00	37.0	15.0	8.0	8.80	0.5	4.0	-6.0	20.00	TPGB 1102	SR 14-505	T-7/5

For inserts, see pages: TPMT-PF (205) • TPGT-SP (205) • TPGB-XL (206) • TPGH-XL (206) • TPGB (206) • TPMT (205)

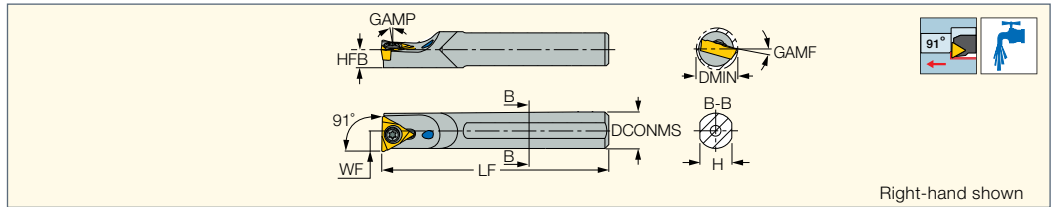
**A/E/S-STFPR/L**  
Screw Lock Boring Bars  
Carrying Triangular Inserts  
with 11° Clearance



Designation	DCONMS	LF	LDRED	H	HFB	HF	WF	DMIN	DMIN_2	CSP <sup>(1)</sup>	Shank m. <sup>(2)</sup>		
A10K STFPR-11	10.00	125.00	-	9.0	5.3	0.8	6.00	11.00	12.00	1	S	SR 14-505	T-7/5
A12Q STFPR-11	12.00	180.00	-	11.0	6.3	0.8	7.00	13.00	14.00	1	S	SR 14-505	T-7/5
E10M STFPR-11	10.00	150.00	-	9.0	5.3	0.8	6.00	12.00	12.00	1	C	SR 14-505	T-7/5
E12Q STFPR/L-11	12.00	180.00	-	11.0	6.3	0.8	7.00	14.00	14.00	1	C	SR 14-505	T-7/5
S12K STFPR/L-11	12.00	125.00	35.0	11.0	6.3	0.8	5.60	11.00	11.00	0	S	SR 14-505	T-7/5
S12M STFPR/L-11	12.00	150.00	27.0	11.0	6.3	0.8	7.00	15.00	15.00	0	S	SR 14-505	T-7/5
S16Q STFPR/L-11	16.00	180.00	27.0	15.0	8.0	0.5	9.20	18.00	18.00	0	S	SR 14-505	T-7/5
S20R STFPR/L-16	20.00	200.00	63.0	18.0	10.0	1.0	10.20	21.50	21.50	0	S	SR 14-541	T-15/5

• (a1) When used with insert TPG. 110204-XL (a2) When used with insert TP. 110204-...  
<sup>(1)</sup> 0 - Without coolant supply, 1 - With coolant supply  
<sup>(2)</sup> S-Steel, C-Carbide  
**For inserts, see pages:** TPMT-PF (205) • TPGB-XL (206) • TPGH-R/L (206) • TPGH-XL (206) • TPGB (206) • TPMT (205)

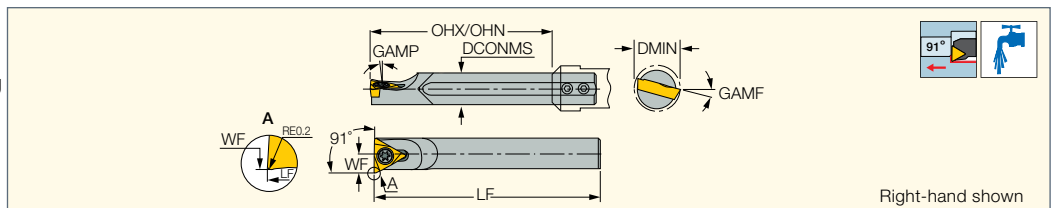
**A/E-STFPR-X**  
Boring Bars Carrying Triangular  
TPGX 11° Clearance Inserts  
for Small Diameters



Designation	DCONMS	LF	WF	H	HFB	DMIN	GAMP	GAMF	Shank m. <sup>(1)</sup>	Insert		
A08J STFPR-09X	8.00	110.00	5.00	7.2	3.6	9.50	5.0	-15.0	S	TPGX 0902	SR 14-298	T-8/5
A10K STFPR-09X	10.00	125.00	5.70	9.0	4.5	10.90	5.0	-8.0	S	TPGX 0902	SR 14-298	T-8/5
A12M STFPR-09X	12.00	150.00	6.70	11.0	5.5	13.00	5.0	-8.0	S	TPGX 0902	SR 14-298	T-8/5
A10K STFPR-11X	10.00	125.00	6.00	9.0	4.5	11.40	3.0	-15.0	S	TPGX 1103	SR 10400052	T-8/5
A12M STFPR-11X	12.00	150.00	6.80	11.0	5.5	13.50	3.0	-10.0	S	TPGX 1103	SR 10400052	T-8/5
A16Q STFPR-11X	16.00	180.00	8.80	14.0	7.0	17.30	3.0	-5.0	S	TPGX 1103	SR 10400052	T-8/5
E08K STFPR-09X	8.00	125.00	5.00	7.2	3.6	9.50	5.0	-15.0	C	TPGX 0902	SR 14-298	T-8/5
E10M STFPR-09X	10.00	150.00	5.70	9.0	4.5	10.90	5.0	-8.0	C	TPGX 0902	SR 14-298	T-8/5
E12Q STFPR-09X	12.00	180.00	6.70	11.0	5.5	13.00	5.0	-8.0	C	TPGX 0902	SR 14-298	T-8/5
E10M STFPR-11X	10.00	150.00	6.00	9.0	4.5	11.40	3.0	-15.0	C	TPGX 1103	SR 10400052	T-8/5
E12Q STFPR-11X	12.00	180.00	6.80	11.0	5.5	13.50	3.0	-10.0	C	TPGX 1103	SR 10400052	T-8/5
E16R STFPR-11X	16.00	200.00	8.80	14.0	7.0	17.30	3.0	-5.0	C	TPGX 1103	SR 10400052	T-8/5

<sup>(1)</sup> S-Steel, C-Carbide  
**For inserts, see pages:** TPGW-M3 (CBN) (235) • TPGX (207) • TPGX (CBN) (234) • TPGX (PCD) (224)

**MG STFPR-X**  
Solid Carbide Boring Bar Carrying  
TPGX Inserts for Small Diameters



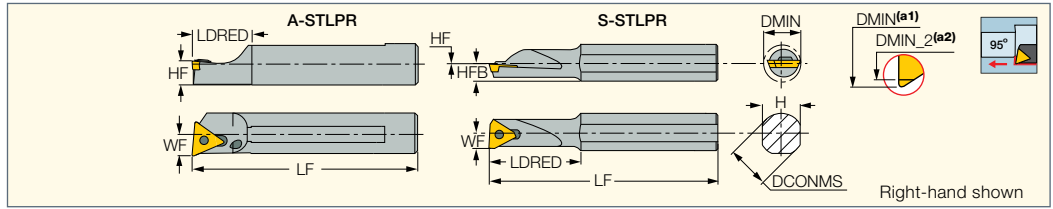
Designation	DCONMS	LF	OHN <sup>(1)</sup>	OHX <sup>(2)</sup>	WF	GAMP	GAMF	DMIN		
MG 08-STFPR-09X	8.00	79.00	20.0	56.0	4.90	5.0	-15.0	9.50	SR 14-298	T-8/5

<sup>(1)</sup> Minimum overhang in adjustment range  
<sup>(2)</sup> Maximum overhang in adjustment range  
**For inserts, see pages:** TPGX (207) • TPGX (CBN) (234) • TPGX (PCD) (224)



**ISOTURN**

**A/S-STLPR/L**  
Screw Lock Boring Bars  
Carrying Triangular Inserts  
with 11° Clearance

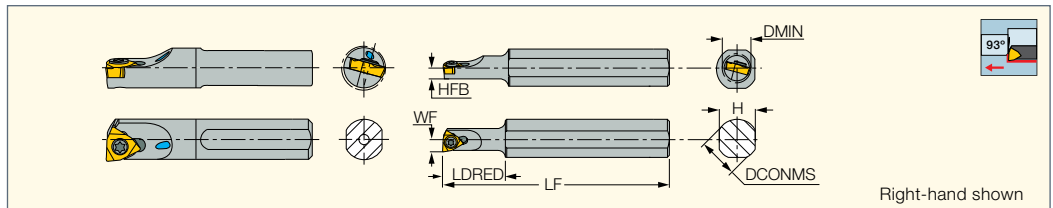


Designation	DCONMS	LF	LDRED	H	HFB	HF	WF	DMIN	DMIN_2	CSP <sup>(1)</sup>		
<b>A10K STLPR-11</b>	10.00	125.00	18.0	9.5	5.8	1.1	6.00	12.00	11.00	1	SR 14-505	T-7/5
<b>A12Q STLPR-11</b>	12.00	180.00	18.0	11.5	6.0	0.3	7.00	14.00	13.00	1	SR 14-505	T-7/5
<b>S12K STLPR/L-11</b>	12.00	125.00	35.0	11.0	6.3	0.8	5.60	11.00	9.70	0	SR 14-505	T-7/5
<b>S12M STLPR/L-11</b>	12.00	150.00	27.0	11.0	6.3	0.8	7.00	15.00	14.00	0	SR 14-505	T-7/5
<b>S16Q STLPR-11</b>	16.00	180.00	27.0	15.0	8.0	0.5	9.00	18.00	17.00	0	SR 14-505	T-7/5
<b>S20R STLPR-16</b>	20.00	200.00	63.0	18.0	10.0	1.0	10.20	21.50	21.50	0	SR 14-541	T-15/5

- (a1) When used with insert TP.. 110204-.. (a2) When used with insert TPG. 110204-XL
- (1) 0 - Without coolant supply, 1 - With coolant supply
- For inserts, see pages:** TPMT-PF (205) • TPGB-XL (206) • TPGH-R/L (206) • TPGH-XL (206) • TPGB (206) • TPMT (205)

**ISOTURN**

**E/S-SWUBR/L**  
Screw Clamp Miniature  
Boring Bars Carrying Small  
WBMT Trigon Inserts

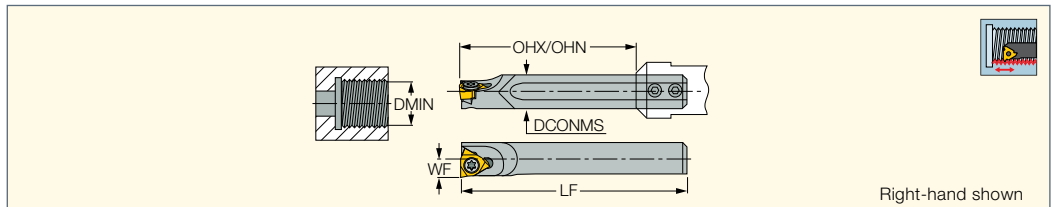


Designation	DCONMS	LF	LDRED	H	HFB	WF	DMIN	CSP <sup>(1)</sup>	Shank m. <sup>(2)</sup>	MIID <sup>(3)</sup>		
<b>E06H SWUBL-06</b>	6.00	100.00	-	5.2	2.6	3.30	6.50	1	C	WBMT 060101R	SR 14-552	T-6/5
<b>E06H SWUBR-06</b>	6.00	100.00	-	5.2	2.6	3.30	6.50	1	C	WBMT 060101L		
<b>E08K SWUBR-06</b>	8.00	125.00	-	7.6	3.8	4.30	8.70	1	C	WBMT 060101L	SR 14-552	T-6/5
<b>E10M SWUBR-06</b>	10.00	150.00	-	9.0	4.5	5.20	10.90	1	C	WBMT 060101L	SR 14-552	T-6/5
<b>S0606H SWUBR-06</b>	6.00	100.00	-	5.2	2.6	3.30	6.50	0	S	WBMT 060101L	SR 14-552	T-6/5
<b>S0610H SWUBL-06</b>	10.00	100.00	20.0	9.0	4.5	3.00	6.00	0	S	WBMT 060101R	SR 14-552	T-6/5
<b>S0610H SWUBR-06</b>	10.00	100.00	20.0	9.0	4.5	3.00	6.00	0	S	WBMT 060101L		
<b>S0710H SWUBL-06</b>	10.00	100.00	24.0	9.0	4.5	3.50	7.00	0	S	WBMT 060101R	SR 14-552	T-6/5
<b>S0710H SWUBR-06</b>	10.00	100.00	24.0	9.0	4.5	3.50	7.00	0	S	WBMT 060101L		
<b>S0808J SWUBR-06</b>	8.00	100.00	-	7.4	3.7	4.30	8.50	0	S	WBMT 060101L	SR 14-552	T-6/5
<b>S0812J SWUBL-06</b>	12.00	110.00	32.0	11.0	5.5	4.00	8.00	0	S	WBMT 060101R	SR 14-552	T-6/5
<b>S0812J SWUBR-06</b>	12.00	110.00	32.0	11.0	5.5	4.00	8.00	0	S	WBMT 060101L		
<b>S1010K SWUBL-06</b>	10.00	125.00	-	9.0	4.5	5.20	11.00	0	S	WBMT 060101R	SR 14-552	T-6/5
<b>S1010K SWUBR-06</b>	10.00	125.00	-	9.0	4.5	5.20	11.00	0	S	WBMT 060101L		

- Use right-hand WBMT 06...R inserts on left-hand tools and left-hand WBMT 06...L inserts on right-hand tools.
- (1) 0 - Without coolant supply, 1 - With coolant supply
- (2) S-Steel, C-Carbide
- (3) Master insert identification
- For inserts, see pages:** WBGT (207) • WBMT (207)

**ISCARTHREAD**

**MGSIR/L**  
Solid Carbide Bars for Internal  
Turning and Threading

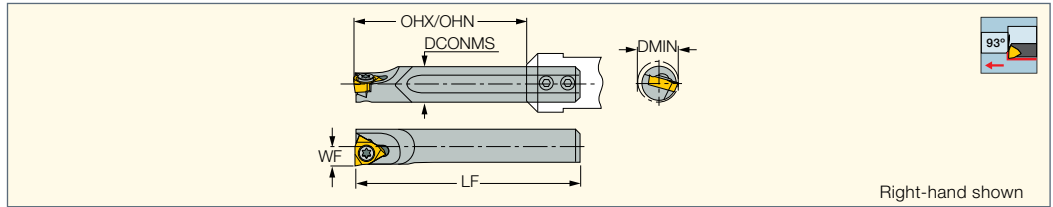


Designation	DCONMS	LF	OHN <sup>(1)</sup>	OHX <sup>(2)</sup>	WF	DMIN		
<b>MGSIR/L 06-06</b>	6.00	59.00	16.0	42.0	3.90	7.00	SR 14-552	T-6/5
<b>MGSIR/L 08-06</b>	8.00	72.00	20.0	56.0	5.00	9.20	SR 14-552	T-6/5

- In order to maintain high machining reliability, we strongly recommend replacing the clamping screw every 10 insert indexes
- (1) Minimum overhang in adjustment range
- (2) Maximum overhang in adjustment range
- For inserts, see pages:** IR/L-55° (640) • IR/L-60° (645) • IR/L-BSPT (673) • IR/L-ISO (655) • IR/L-NPT (670) • IR/L-NPTF (672)
- IR/L-UN (662) • IR/L-W (667)

**ISOTURN**

**MG-SWUBR/L**  
Solid Carbide Bars for  
Internal Turning

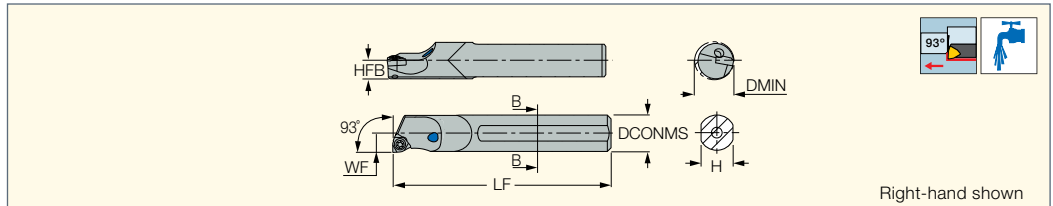


Designation	DCONMS	LF	OHN <sup>(1)</sup>	OHX <sup>(2)</sup>	WF	DMIN		
<b>MG 06-SWUBR/L-06</b>	6.00	59.00	16.0	42.0	3.30	6.60	SR 14-552	T-6/5
<b>MG 08-SWUBR/L-06</b>	8.00	72.00	20.0	56.0	4.30	8.70	SR 14-552	T-6/5

- Use right-hand WBMT 06...R inserts on left-hand tools and left-hand WBMT 06...L inserts on right-hand tools
  - <sup>(1)</sup> Minimum overhang in adjustment range
  - <sup>(2)</sup> Maximum overhang in adjustment range
- For inserts, see pages:** WBGT (207) • WBMT (207)

**ISOTURN**

**A/E-SWUCR**  
Boring Bars Carrying WCGT  
Trigon Inserts for Small Diameters

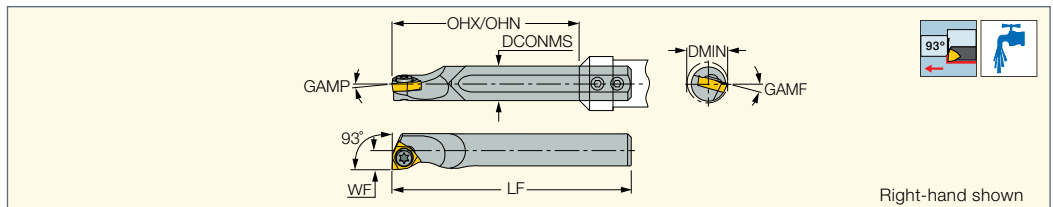


Designation	DCONMS	LF	H	HFB	WF	DMIN	Shank m. <sup>(1)</sup>	Insert		
<b>A06H SWUCR-02</b>	6.00	100.00	5.4	2.7	3.30	6.60	S	WCGT 0201	SR 14-299	T-6/5
<b>A08J SWUCR-02</b>	8.00	110.00	7.2	3.6	4.25	8.70	S	WCGT 0201	SR 14-299	T-6/5
<b>A10K SWUCR-02</b>	10.00	125.00	9.0	4.5	5.20	10.90	S	WCGT 0201	SR 14-299	T-6/5
<b>E06H SWUCR-02</b>	6.00	100.00	5.4	2.7	3.30	6.60	C	WCGT 0201	SR 14-299	T-6/5
<b>E08K SWUCR-02</b>	8.00	125.00	7.2	3.6	4.30	8.70	C	WCGT 0201	SR 14-299	T-6/5
<b>E10M SWUCR-02</b>	10.00	150.00	9.0	4.5	5.20	10.90	C	WCGT 0201	SR 14-299	T-6/5

- <sup>(1)</sup> S-Steel, C-Carbide
- For inserts, see pages:** WCGT (208)

**ISOTURN**

**MG-SWUCR**  
Solid Carbide Boring Bars  
Carrying WCGT Trigon  
Inserts for Small Diameters

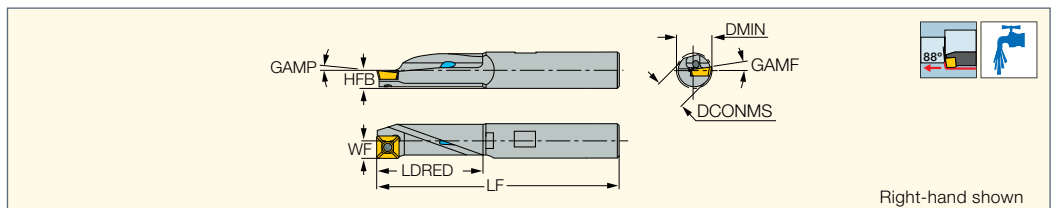


Designation	DCONMS	LF	OHN <sup>(1)</sup>	OHX <sup>(2)</sup>	WF	GAMP	GAMF	DMIN	Insert		
<b>MG 06-SWUCR-02</b>	6.00	60.00	16.0	42.0	3.30	0.0	15.0	6.60	WCGT 0201	SR 14-299	T-6/5
<b>MG 08-SWUCR-02</b>	8.00	75.70	20.0	56.0	4.30	0.0	12.0	8.80	WCGT 0201	SR 14-299	T-6/5

- <sup>(1)</sup> Minimum overhang in adjustment range
  - <sup>(2)</sup> Maximum overhang in adjustment range
- For inserts, see pages:** WCGT (208)

**ISOTURN**

**A-SXFOR/L**  
Boring Bars with Coolant  
Holes Carrying XOMT Inserts



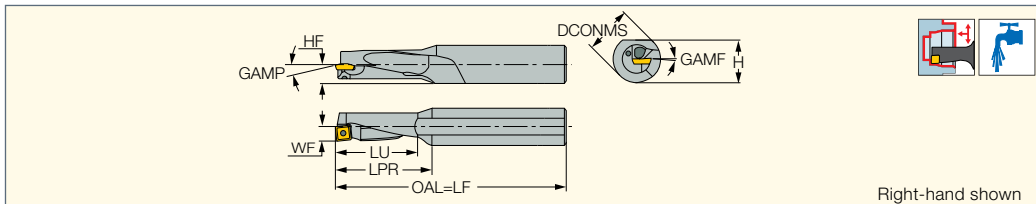
Designation	DCONMS	LF	LDRED	HFB	WF	GAMP	GAMF	DMIN	Insert		
<b>A10J SXFOR/L-06</b>	10.00	110.00	28.5	5.0	4.90	6.0	1.8	10.00	XOMT 0602	SR 34-508	T-7/5
<b>A12K SXFOR/L-06</b>	12.00	125.00	28.5	5.0	4.90	6.0	1.8	10.00	XOMT 0602	SR 34-508	T-7/5

- For inserts, see pages:** XOMT-DT (200)

## MULTIFUNCTION TOOLS

### A-SXFOR-DR

Boring and Drilling Bars  
with Coolant Holes  
Carrying XOMT Inserts

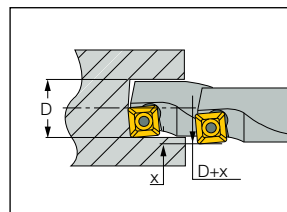


Right-hand shown

Designation	DCONMS	LF	LPR	LU	WF	HF	GAMP	GAMF	H	DCN <sup>(1)</sup>	Insert
A1612M SXFOR-06DR	16.00	180.00	31.0	21.0	6.00	8.5	0.0	0.0	15.0	12.50	XOMT 0602

<sup>(1)</sup> Cutting diameter minimum

For inserts, see pages: XOMT-DT (200)



### Drilling Solid Material

Range:

**Dmin**=12.5 mm




**Dmax**=14 mm

To achieve required diameter  $\phi D$ , position tool as shown at  $D + x$  ( $x=0.10$ ) to compensate for tool deflection. Use pecking cycle, pulling back 0.1 mm after each 1 mm of DOC.

Maximum feed for steel: 0.05 mm/rev;

For stainless steel: 0.03 mm/rev

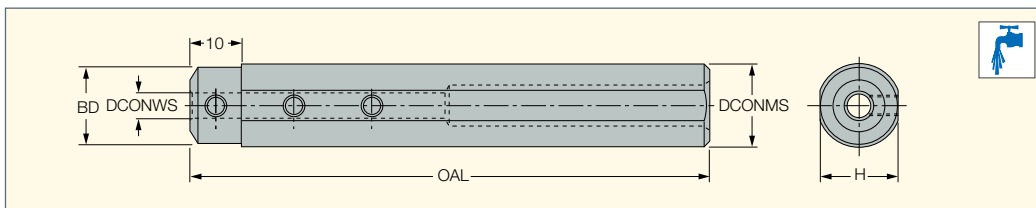
### Spare Parts




Designation			
A-SXFOR-DR	SR 34-508	T-7/51	PL 16

## ISOTURN

### SBB

Holders for Small  
Diameter Boring Bars



Designation	DCONMS	DCONWS	BD	H	OAL			
SBB D16-4	16.00	4.00	15.00	15.0	100.00	SR M4X4	HW 2.0	PL 16*
SBB D16-5	16.00	5.00	15.00	15.0	100.00	SR M4X4	HW 2.0	PL 16*
SBB D16-6	16.00	6.00	15.00	15.0	100.00	SR M4X4	HW 2.0	PL 16*
SBB D16-7	16.00	7.00	15.00	15.0	100.00	SR M4X4	HW 2.0	PL 16*
SBB D20-4	20.00	4.00	13.00	19.0	100.00	SR M4X4	HW 2.0	PL 16*
SBB D20-5	20.00	5.00	14.00	19.0	100.00	SR M4X4	HW 2.0	PL 16*
SBB D20-6	20.00	6.00	15.00	19.0	100.00	SR M4X4	HW 2.0	PL 16*
SBB D20-7	20.00	7.00	16.00	19.0	100.00	SR M4X4	HW 2.0	PL 16*
SBB D22-4	22.00	4.00	13.00	21.0	125.00	SR M4X4	HW 2.0	PL 16*
SBB D22-5	22.00	5.00	14.00	21.0	125.00	SR M4X4	HW 2.0	PL 16*
SBB D22-6	22.00	6.00	15.00	21.0	125.00	SR M4X4	HW 2.0	PL 16*
SBB D22-7	22.00	7.00	16.00	21.0	125.00	SR M4X4	HW 2.0	PL 16*
SBB D25-4	25.00	4.00	13.00	24.0	125.00		HW 2.0	
SBB D25-5	25.00	5.00	14.00	24.0	125.00		HW 2.0	
SBB D25-6	25.00	6.00	15.00	24.0	125.00		HW 2.0	
SBB D25-7	25.00	7.00	16.00	24.0	125.00		HW 2.0	

• Holders are suitable for right- and left-hand inserts, and boring bars

\* Optional, should be ordered separately

For tools, see pages: A/E-SEXP/L-03 (112) • A/E-SWUCR (119) • A/E/S-SCLCR/L (111) • E/S-SWUBR/L (118) • MG-SWUBR/L (119)

• MG-SWUCR (119) • MGCH (414) • MGSIR/L (118)