

Complete Machining Solutions

Non-Rotating Tool Lines

Turning • Grooving • Threading • Parting

Metric Version Catalog 2017





Quality Standard

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.

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Complete Machining Solutions **Non-Rotating Tool Lines**

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INSERTS

TOOLS

GRADES

ISO
TURNING

GROOVING

PARTING

FACE
GROOVING

TOOL
BLOCKS

THREADING

TOOL
HOLDERS

GRADES

Complete Machining Solutions
TURNING TOOLS & INSERTS

Complete Machining Solutions
TURNING TOOL HOLDERS

Complete Machining Solutions
TURNING MATERIALS AND GRADES

Complete Machining Solutions
ISO TURN TOOLS AND INSERTS

Complete Machining Solutions

ISOTURN TOOLS AND INSERTS



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ISOTURN TOOLS

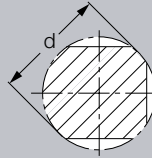


Toolholder Identification System

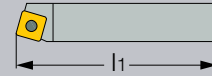
1. Boring Bar

- S** Steel Shank
- A** Coolant through Steel Shank
- C** Solid Carbide Shank
- E** Coolant through Carbide Shank

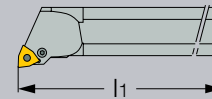
2. Bar Diameter



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
		X = Special



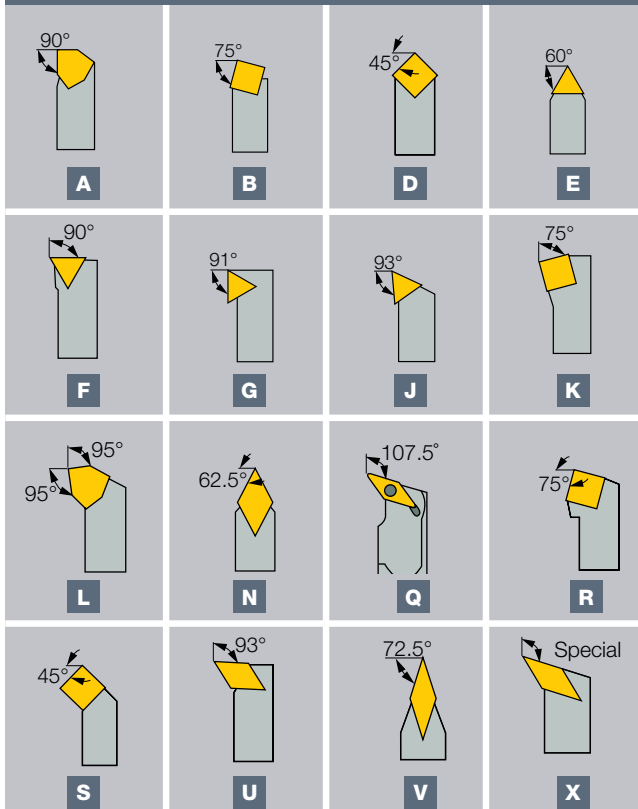
Toolholder

M	W	L	N	R
4	5	6	7	8

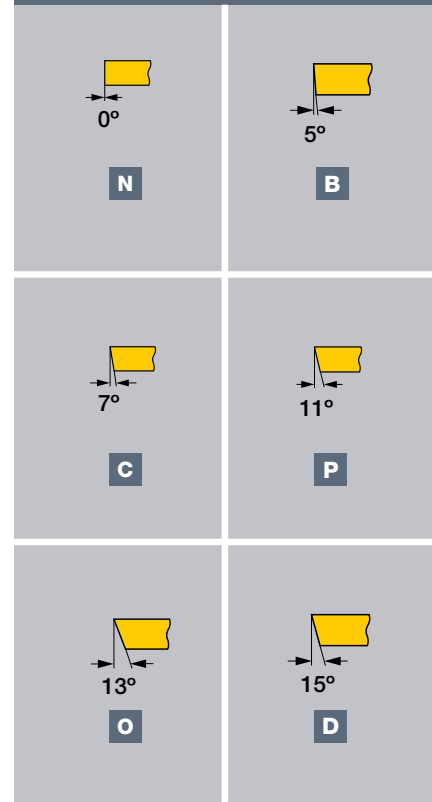
Boring Bar

S	25	S
1	2	3

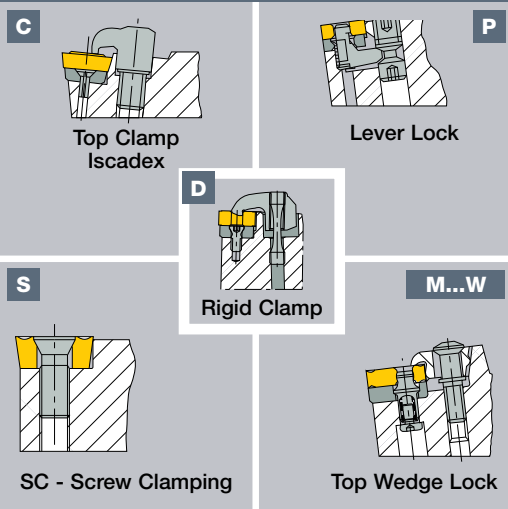
6. Approach Angle



7. Insert Clearance Angle

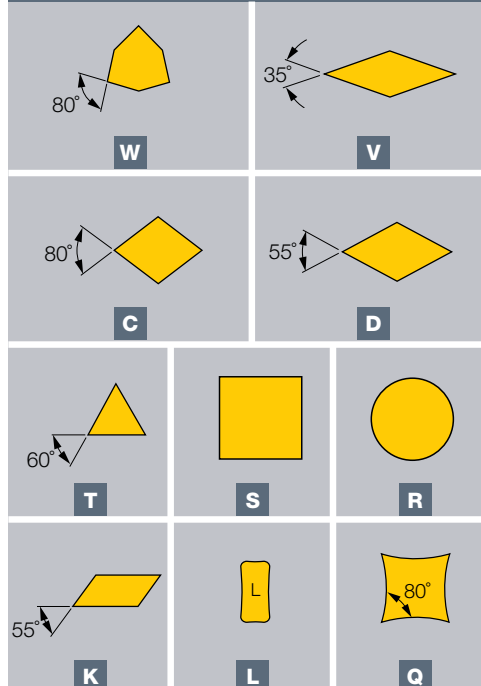


4. Clamping System

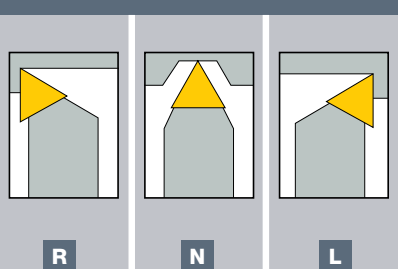


25	25	M	-	08	W
9	10	3		11	12
			-	08	W
				11	12

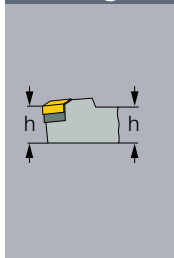
5. Insert Shape



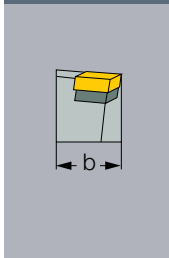
8. Hand of Tool



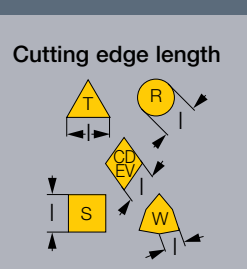
9. Shank Height



10. Shank Width

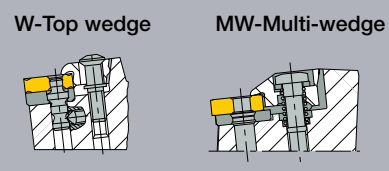


11. Insert Size

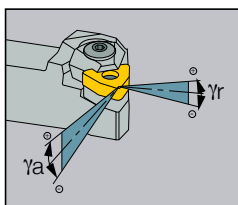


Axial γ_a and Radial γ_r Rake angles

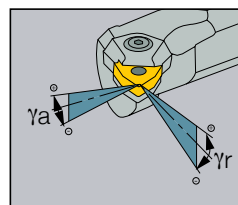
12. Wedge Lock



S- for Swiss-type machines

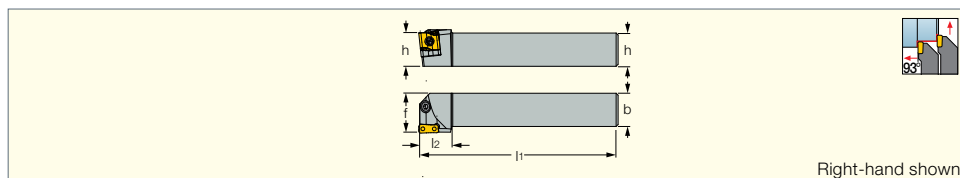


Toolholder



Boring Bar

PLANR/L-TANG

 Lever Lock Tools Carrying LNMX..
 Tangentially Clamped Inserts


Right-hand shown

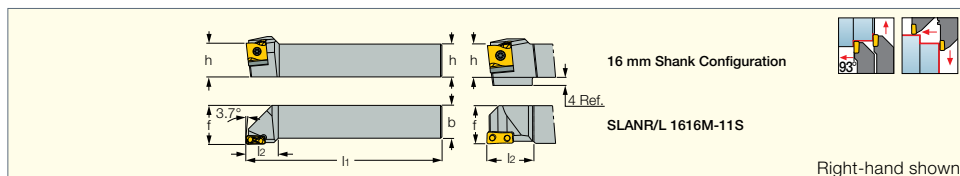
Designation	h	b	l ₁	l ₂	f	G _a °	G _r °	Insert
PLANR/L 2525M-15 TANG	25.0	25.0	150.00	25.0	30.0	-6	-6	LNMX 1506..R/L
PLANR/L 3232P-15 TANG	32.0	32.0	170.00	32.0	37.0	-6	-6	LNMX 1506..R/L
PLANR/L 3232P-22 TANG	32.0	32.0	170.00	32.0	37.0	-6	-6	LNMX 2210..R/L
PLANR/L 4040R-22 TANG	40.0	40.0	200.00	40.0	47.0	-6	-6	LNMX 2210..R/L

For inserts, see pages: LNMX-HM (152) • LNMX-HT (152) • LNMX-WG (152)


Spare Parts

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





Designation	h	b	l ₁	l ₂	f	G _a °	G _r °	Insert
SLANR/L 1616H-11 TANG	16.0	16.0	100.00	20.0	20.0	-6	-6	LNMX 1104..
SLANR/L 1616M-11S TANG	16.0	16.0	150.00	20.0	16.2	-6	-6	LNMX 1104..
SLANR/L 2020K-11 TANG	20.0	20.0	125.00	20.0	25.0	-6	-6	LNMX 1104..
SLANR/L 2525M-11 TANG	25.0	25.0	150.00	25.0	30.0	-6	-6	LNMX 1104..
SLANR/L 2020K-15 TANG	20.0	20.0	100.00	25.0	25.0	-6	-6	LNMX 1506..
SLANR/L 2525M-15 TANG	25.0	25.0	150.00	25.0	30.0	-6	-6	LNMX 1506..
SLANR/L 3232P-15 TANG	32.0	32.0	170.00	35.0	37.0	-6	-6	LNMX 1506..
SLANR/L 4040R-15 TANG	40.0	40.0	200.00	35.0	45.0	-6	-6	LNMX 1506..
SLANR/L 3232P-22 TANG	32.0	32.0	170.00	35.0	38.0	-6	-6	LNMX 2210..
SLANR/L 4040R-22 TANG	40.0	40.0	200.00	40.0	47.0	-6	-6	LNMX 2210..
SLANR/L 5050S-22 TANG	50.0	50.0	250.00	35.0	57.0	-6	-6	LNMX 2210..

• ap max for facing: LNMX 11-2.8 mm, LNMX 15-3.8 mm, LNMX 22-5.8 mm

For inserts, see pages: LNMX-HM (152) • LNMX-HT (152) • LNMX-WG (152)

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

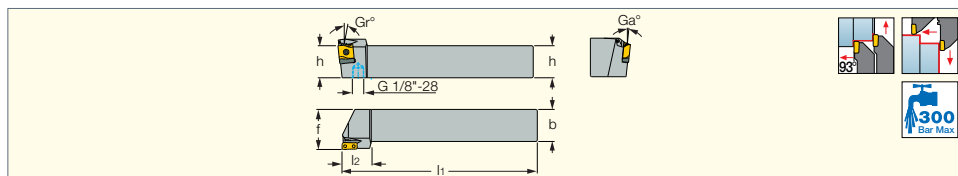
Designation						
SLANL 1616H-11 TANG	TLN 11L-HT	SR RS4	T-6/5	SR 34-550-C	BLD T10/S7	SW6-SD
SLANL 1616M-11S TANG	TLN 11L-HT	SR RS4	T-6/5	SR 34-550-C	BLD T10/S7	SW6-SD
SLANR 1616H-11 TANG	TLN 11R-HT	SR RS4	T-6/5	SR 34-550-C	BLD T10/S7	SW6-SD
SLANR 1616M-11S TANG	TLN 11R-HT	SR RS4	T-6/5	SR 34-550-C	BLD T10/S7	SW6-SD
SLANL 2020K-11 TANG	TLN 11L-HT	SR RS4	T-6/5	SR 34-550-C	BLD T10/S7	SW6-SD
SLANR 2020K-11 TANG	TLN 11R-HT	SR RS4	T-6/5	SR 34-550-C	BLD T10/S7	SW6-SD
SLANL 2525M-11 TANG	TLN 11L-HT	SR RS4	T-6/5	SR 34-550-C	BLD T10/S7	SW6-SD
SLANR 2525M-11 TANG	TLN 11R-HT	SR RS4	T-6/5	SR 34-550-C	BLD T10/S7	SW6-SD
SLANL 2020K-15 TANG	TLN 15L-HT	SR RS4	T-6/5	SR 34-535-SN	BLD T15/S7	SW6-T-SH
SLANR 2020K-15 TANG	TLN 15R-HT	SR RS4	T-6/5	SR 34-535-SN	BLD T15/S7	SW6-T-SH
SLANL 2525M-15 TANG	TLN 15L-HT	SR RS4	T-6/5	SR 34-535-SN	BLD T15/S7	SW6-T-SH
SLANR 2525M-15 TANG	TLN 15R-HT	SR RS4	T-6/5	SR 34-535-SN	BLD T15/S7	SW6-T-SH
SLANL 3232P-15 TANG	TLN 15L-HT	SR RS4	T-6/5	SR 34-535-SN	BLD T15/S7	SW6-T-SH
SLANR 3232P-15 TANG	TLN 15R-HT	SR RS4	T-6/5	SR 34-535-SN	BLD T15/S7	SW6-T-SH
SLANL 4040R-15 TANG	TLN 15L-HT	SR RS4	T-6/5	SR 34-535-SN	BLD T15/S7	SW6-T-SH
SLANR 4040R-15 TANG	TLN 15R-HT	SR RS4	T-6/5	SR 34-535-SN	BLD T15/S7	SW6-T-SH
SLANL 3232P-22 TANG	TLN 22L-HT	SR 10500401	T-7/5	SR 14-591/L-SN	BLD T20/S7	SW6-T-SH
SLANR 3232P-22 TANG	TLN 22R-HT	SR 10500401	T-7/5	SR 14-591/L-SN	BLD T20/S7	SW6-T-SH
SLANL 4040R-22 TANG	TLN 22L-HT	SR 10500401	T-7/5	SR 14-591/L-SN	BLD T20/S7	SW6-T-SH
SLANR 4040R-22 TANG	TLN 22R-HT	SR 10500401	T-7/5	SR 14-591/L-SN	BLD T20/S7	SW6-T-SH
SLANL 5050S-22 TANG	TLN 22L-HT	SR 10500401	T-7/5	SR 14-591/L-SN	BLD T20/S7	SW6-T-SH
SLANR 5050S-22 TANG	TLN 22R-HT	SR 10500401	T-7/5	SR 14-591/L-SN	BLD T20/S7	SW6-T-SH



HELITURN JETCUT
 TANGENTIAL LINE

SLANR/L-15-TANG-JHP

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

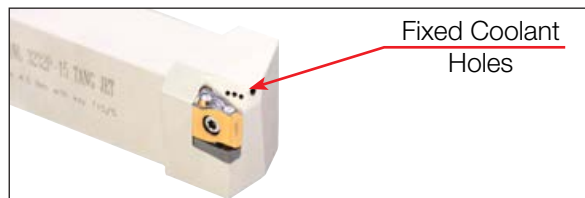


Designation	h	b	l ₁	l ₂	f	G _a °	G _r °	Insert
SLANR/L 3232P-15 TANG-JHP	32.0	32.0	170.00	30.0	40.0	-6	-6	LNMX 1506

• ap max for facing 3.8 mm • For user guide, see pages 64-71

For inserts, see pages: LNMX-HM (152) • LNMX-HT (152) • LNMX-WG (152)

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

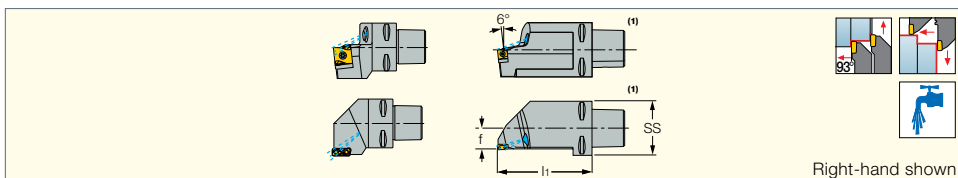

Spare Parts

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

HELITURN CAMFIX
 TANGENTIAL LINE

C#-SLANR/L-TANG

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



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

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

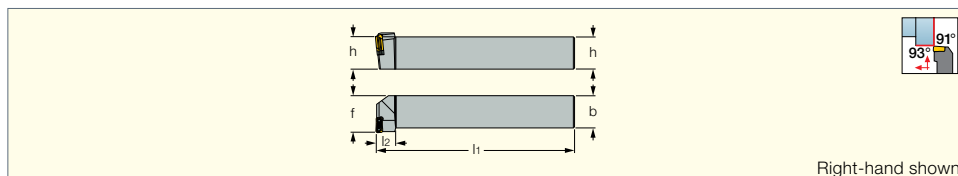
⁽¹⁾ Designed for mill-turn machines

For inserts, see pages: LNMX-HM (152) • LNMX-HT (152) • LNMX-WG (152)

Spare Parts

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


Right-hand shown

Designation	h	b	l ₁	l ₂	f	G _a °	G _r °	Insert ⁽¹⁾
SLFNR/L 2525M-15 TANG	25.0	25.0	150.00	20.0	30.0	-6	-6	LNMX 1506..L/R
SLFNR/L 3232P-15 TANG	32.0	32.0	170.00	20.0	37.0	-6	-6	LNMX 1506..L/R

• ap max for longitudinal turning is 5.8 mm

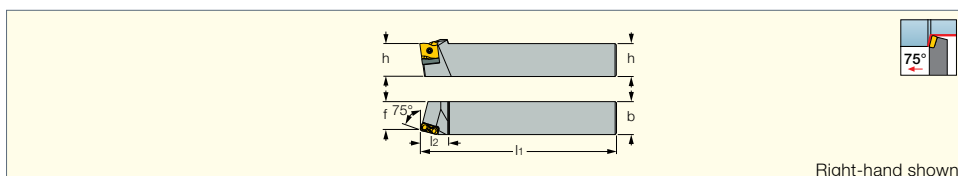
⁽¹⁾ Right-hand insert for left-hand holder, left-hand insert for right-hand holder

For inserts, see pages: LNMX-HM (152) • LNMX-HT (152) • LNMX-WG (152)

Spare Parts

Designation						
SLFNL 2525M-15 TANG	TLN 15R-HT	SR RS4	T-6/5	SR 34-535-SN	BLD T15/S7	SW6-T-SH
SLFNR 2525M-15 TANG	TLN 15L-HT	SR RS4	T-6/5	SR 34-535-SN	BLD T15/S7	SW6-T-SH
SLFNL 3232P-15 TANG	TLN 15R-HT	SR RS4	T-6/5	SR 34-535-SN	BLD T15/S7	SW6-T-SH
SLFNR 3232P-15 TANG	TLN 15L-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


Right-hand shown

Designation	h	b	l ₁	l ₂	f	G _a °	G _r °	Insert
SLBNR/L 4040R-22 TANG	40.0	40.0	200.00	35.0	35.0	-7	-4	LNMX 2210..R/L

For inserts, see pages: LNMX-HT (152)

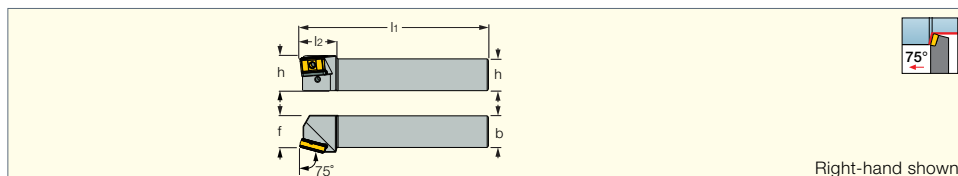
Spare Parts

Designation						
SLBNL 4040R-22 TANG	TLN 22L-HT	SR 10500401	T-7/5	SR 14-591/L-SN	BLD T20/S7	SW6-T-SH
SLBNR 4040R-22 TANG	TLN 22R-HT	SR 10500401	T-7/5	SR 14-591/L-SN	BLD T20/S7	SW6-T-SH



HEAVY^{SUPER}TURN**PLBOR/L**

Lever Lock Tools Carrying
LOMX Tangentially Clamped
Super Heavy Turning Inserts



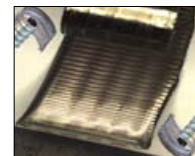
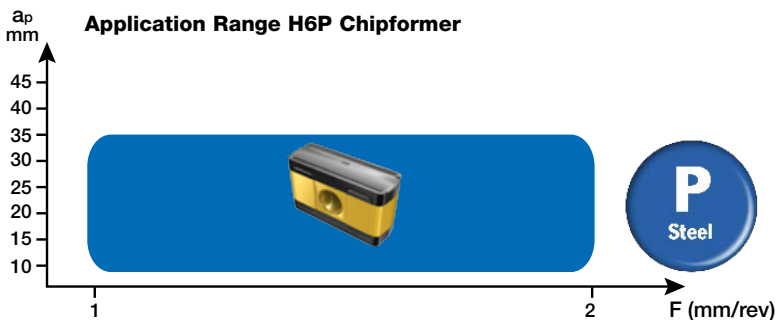
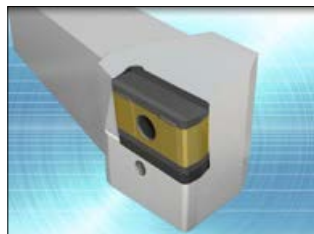
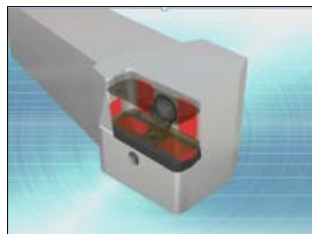
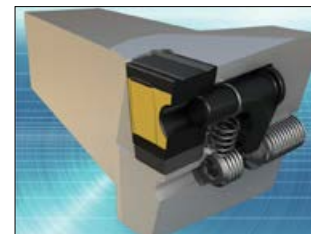
Right-hand shown

Designation	h	b	l ₁	l ₂	f	G _a °	G _r °	Insert
PLBOR/L 5050T-40	50.0	50.0	300.00	60.0	50.0	-6	-6	LOMX 4022
PLBOR/L 6060V-40	60.0	60.0	400.00	60.0	60.0	-6	-6	LOMX 4022

For inserts, see pages: LOMX-H6P (151)

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

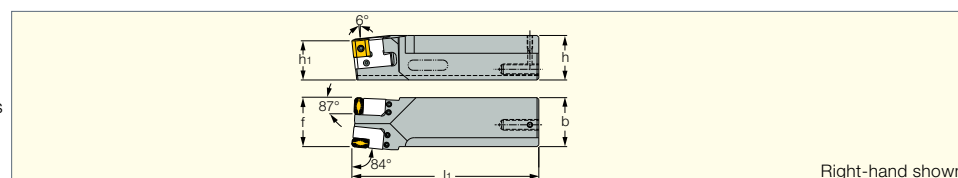
This tangentially clamped insert with 4 cutting edges is made from the tough grade IC8250. It can machine at up to 35 mm depth of cut and up to 2 mm/rev feed. The insert is clamped on a very rigid lever lock pocket equipped with a protective seat.

**Application Range H6P Chipformer****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

ISOTURN**PRWR/L**

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



Right-hand shown

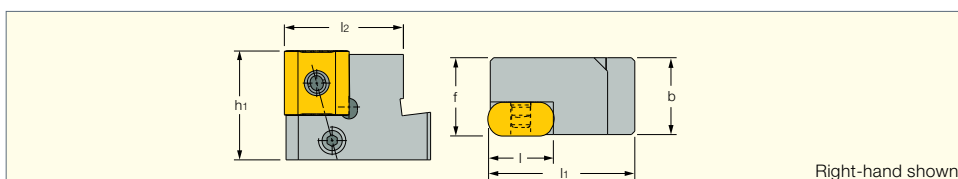
Designation	h	h ₁	b	l ₁	f		
PRWR/L 50-55	50.0	44.0	55.0	210.00	55.0	SR M6X1X16	HW 3.0

• Cartridges should be ordered separately

For tools, see pages: PRWR/L 175-CA (10) • PRWR/L 177-CA (11)

ISOTURN**PRWR/L 175-CA**

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



Right-hand shown

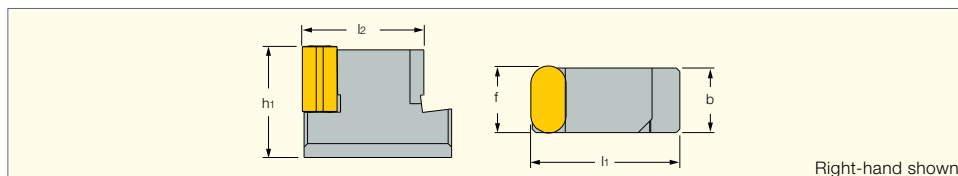
Designation	h ₁	b	l ₁	l ₂	f	Insert			
PRWR/L 175-CA-19	32.0	22.6	43.00	35.0	23.0	LNMX 191940	SR LCS 5	LR 5	HW 3.0
PRWR/L 175-CA-30	32.0	22.6	43.00	35.0	23.0	LNMX 301940	SR LCS 5	LR 5	HW 3.0

For inserts, see pages: LNMX 19/30 (153)

For holders, see pages: PRWR/L (10)

ISOTURN**PRWR/L 177-CA**

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



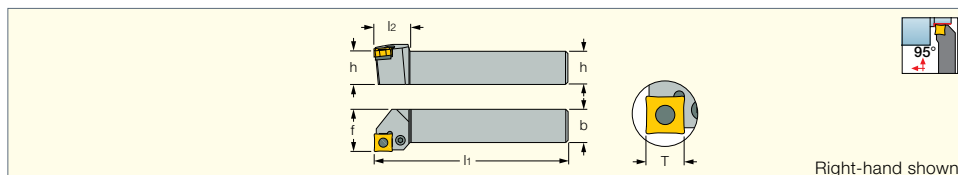
Designation	h_1	b	l_1	l_2	f	Insert			
PRWR/L 177-CA-19	32.0	18.6	43.00	35.0	19.1	LNMX 191940	SR LCS 5	LR 5	HW 3.0

For inserts, see pages: LNMX 19/30 (153)

For holders, see pages: PRWR/L (10)

ISOTURN**PQLNR/L**

Lever Lock Tools Carrying Negative
Inserts with Four 80° Corners



Designation	h	b	l_1	l_2	f	$T^{(2)}$	G_a°	G_r°	Insert
PQLNR/L 1616H-09	16.0	16.0	100.00	21.0	20.0	8	-6	-6	QNMG 0904
PQLNR/L 2020K-09	20.0	20.0	125.00	26.6	25.0	8	-6	-6	QNMG 0904
PQLNR/L 2525M-09	25.0	25.0	150.00	26.6	32.0	8	-6	-6	QNMG 0904
PQLNR/L 2020K-12	20.0	20.0	125.00	26.6	25.0	10	-6	-6	QNMG 1204
PQLNR 2020-12-AD ⁽¹⁾	20.0	20.0	67.00	26.6	25.0	10	-6	-6	QNMG 1204
PQLNR/L 2525M-12	25.0	25.0	150.00	26.6	32.0	10	-6	-6	QNMG 1204

⁽¹⁾ AD - short tools for adapter holders

⁽²⁾ T for r 0.8

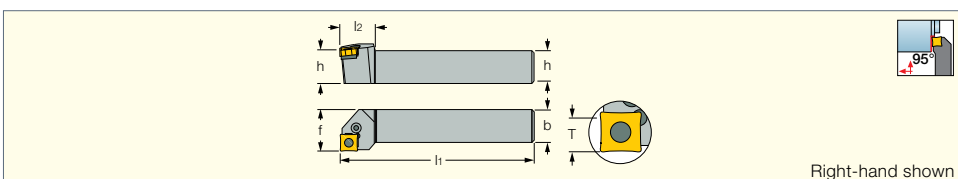
For inserts, see pages: QNMG-GN (110) • QNMG-NF (109) • QNMG-PP (109) • QNMG-TF (109)

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 2020-12-AD	TSN 423	SP 4	PN 3-4	LR 4	SR 117-2010	HW 3.0/5
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	b	l_1	l_2	f	$T^{(1)}$	G_a°	G_r°	Insert
PQFNR/L 2020K-09	20.0	20.0	125.00	26.0	25.0	8	-6	-6	QNMG 0904
PQFNR/L 2020K-12	20.0	20.0	125.00	26.0	25.0	10	-6	-6	QNMG 1204
PQFNR/L 2525M-12	25.0	25.0	150.00	26.0	25.0	10	-6	-6	QNMG 1204

⁽¹⁾ T for r 0.8

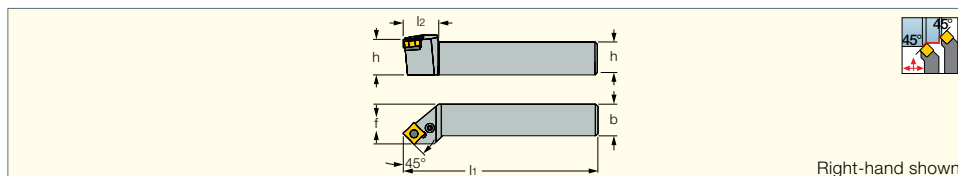
For inserts, see pages: QNMG-GN (110) • QNMG-NF (109) • QNMG-PP (109) • QNMG-TF (109)

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



Right-hand shown

Designation	h	b	l ₁	l ₂	f	G _a °	G _r °	Insert
PQSNR/L 2525M-12	25.0	25.0	150.00	30.0	32.0	-4.5	-5.5	QNMG 1204

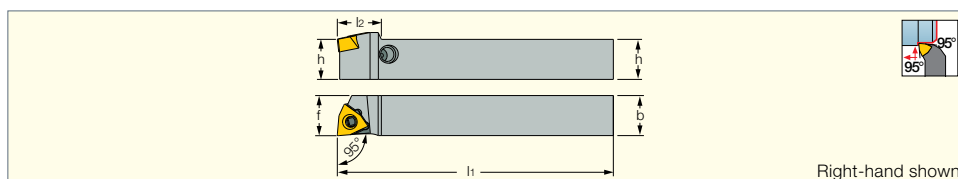
For inserts, see pages: QNMG-GN (110) • QNMG-NF (109) • QNMG-PP (109) • QNMG-TF (109)

Spare Parts

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

ISOTURN**PWLNLR/L-S**

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



Right-hand shown

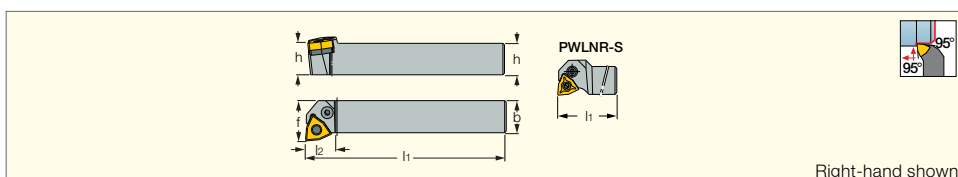
Designation	h	b	l ₁	l ₂	f	Insert				
PWLNLR/L 1010X-04S	10.0	10.0	120.00	11.0	10.0	WNGP 04	SR 10400611	HW 2.0/5	SL LV-2	SL PI-2 PIN
PWLNLR/L 1212F-04S	12.0	12.0	80.00	11.0	12.0	WNGP 04	SR 10400611	HW 2.0/5	SL LV-2	SL PI-2 PIN
PWLNLR/L 1212X-04S	12.0	12.0	120.00	11.0	12.0	WNGP 04	SR 10400611	HW 2.0/5	SL LV-2	SL PI-2 PIN
PWLNLR/L 1616X-04S	16.0	16.0	120.00	13.0	16.0	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 (112) • WNGP-F2P (110)

ISOTURN**PWLNLR/L**

Lever Lock External Turning Tools
Carrying 80° Negative Trigon Inserts



Right-hand shown

Designation	h	b	l ₁	l ₂	f	G _a °	G _r °	Insert
PWLNLR/L 1616H-06	16.0	16.0	100.00	16.0	20.0	-6	-6	WN..06T3
PWLNLR/L 1616H-06S⁽¹⁾	16.0	16.0	100.00	20.3	20.0	-6	-6	WN..06T3
PWLNLR/L 2020K-06	20.0	20.0	125.00	20.0	25.0	-6	-6	WN..06T3
PWLNLR/L 2525M-06	25.0	25.0	150.00	20.0	32.0	-6	-6	WN..06T3
PWLNLR/L 2020K-08	20.0	20.0	125.00	19.0	25.0	-6	-6	WN..0804
PWLNLR/L 2525M-08	25.0	25.0	150.00	20.5	32.0	-6	-6	WN..0804
PWLNLR/L 3232P-08	32.0	32.0	170.00	19.0	40.0	-6	-6	WN..0804

⁽¹⁾ Can be used on automatics

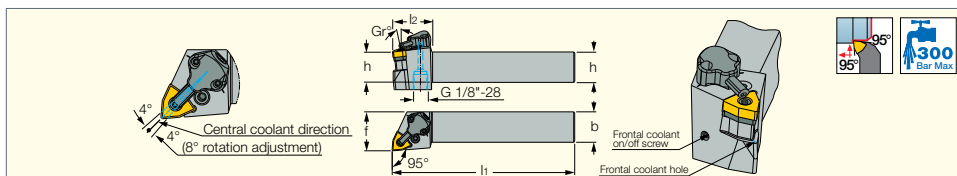
For inserts, see pages: WNMG-F3P (110) • WNMG-M3P (111) • WNMG-F3M (112) • WNMG-M3M (113) • WNMG-NR (117) • WNMG-TNM (118) • WNMM-NM (117) • WNGA-Ceramic (178) • WNGA-M3 (CBN) (186) • WNGA-MC/M6 (CBN) (187)

Spare Parts

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

PWLNLR/L-08-JHP

Lever Lock Tools with Channels
for High Pressure Coolant
Carrying Trigon Inserts



Designation	h	b	l ₁	l ₂	f	Ga°	Gr°	Insert
PWLNLR/L 2525M-08-JHP	25.0	25.0	150.00	33.0	32.0	-6	-6	WNMG 0804..
PWLNLR/L 3232P-08-JHP	32.0	32.0	170.00	33.0	40.0	-6	-6	WNMG 0804..

• For user guide, see pages 64-71

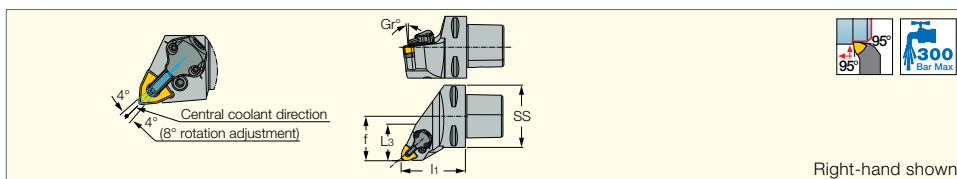
For inserts, see pages: WNMG-F3P (110) • WNMG-M3P (111) • WNMG-F3M (112) • WNMG-M3M (113) • WNMG-NR (117) • WNMG-TNM (118) • WNMM-NM (117) • WNGA-Ceramic (178) • WNGA-M3 (CBN) (186) • WNGA-MC/M6 (CBN) (187)

Spare Parts

Designation										
PWLNLR/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
PWLNLR/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
PWLNLR/L 3232P-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

ISOTURN JETCUT
C#-PWLNLR/L-08-JHP

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



Designation	SS	f	l ₁	l ₃	Ga°	Gr°	Insert
C6 PWLNLR/L-45065-08-JHP	63	45.0	65.00	37.00	-6	-6	WNMG 08..

• For user guide, see pages 64-71

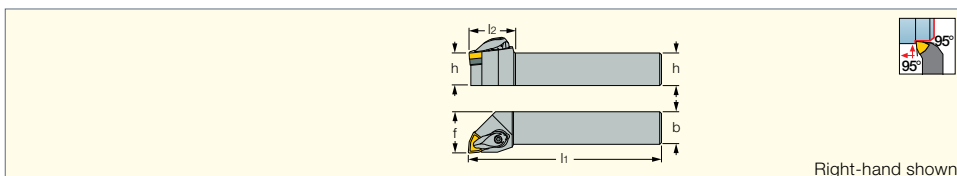
For inserts, see pages: WNMG-F3P (110) • WNMG-M3P (111) • WNMG-F3M (112) • WNMG-M3M (113) • WNMG-NR (117) • WNMG-TNM (118) • WNMM-NM (117) • WNGA-Ceramic (178) • WNGA-M3 (CBN) (186) • WNGA-MC/M6 (CBN) (187)

Spare Parts

Designation										
C6 PWLNLR/L-45065-08-JHP	TWN 423	SP 4	LR 4	SR 117-2010	T-8/5	PN 3-4	CU-CW-JHP	HW 3.0		
C6 PWLNLR/L-45065-08-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	HW 1.5

ISOTURN
DWLNLR/L

External 95° Lead Tools Carrying
Negative WNMG Trigon Inserts



Designation	h	b	l ₁	l ₂	f	Ga°	Gr°	Insert
DWLNLR/L 1616H-06	16.0	16.0	100.00	26.0	16.0	-6	-6	WNMG 0604
DWLNLR/L 2020K-06	20.0	20.0	125.00	26.0	25.0	-6	-6	WNMG 0604
DWLNLR/L 2525M-06	25.0	25.0	150.00	24.0	32.0	-6	-6	WNMG 0604
DWLNLR/L 2020K-08	20.0	20.0	125.00	35.0	25.0	-6	-6	WNMG 0804
DWLNLR/L 2525M-08	25.0	25.0	150.00	35.0	32.0	-6	-6	WNMG 0804
DWLNLR/L 3232P-08	32.0	32.0	170.00	35.0	40.0	-6	-6	WNMG 0804

For inserts, see pages: WNMX-M3/4MW (119) • WNMX-M3/4PW (119) • WNMG-F3P (110) • WNMG-M3P (111) • WNMG-F3M (112) • WNMG-M3M (113) • WNMG-NR (117) • WNMG-TNM (118) • WNMM-NM (117) • WNGA-Ceramic (178) • WNGA-M3 (CBN) (186) • WNGA-MC/M6 (CBN) (187)

Spare Parts

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

* Optional, should be ordered separately

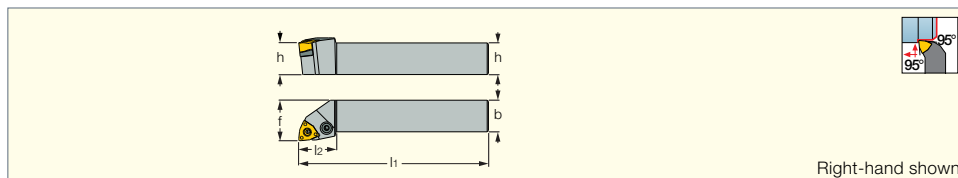
(b) RWT 3-2 seat, for WNMG 06T3 insert

(c) RWT 3-2 seat, for WNMG 06T3 insert

(c) TWH 4 seat, for WNMX 0807... insert

HELITURN LD**PWLNRL/L-X**

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



Designation	h	b	l ₁	l ₂	f	G _a °	G _r °	Insert
PWLNRL/L 2020K-06X ⁽¹⁾	20.0	20.0	125.00	25.0	25.0	-6	-6	WNMX 0606, WNMG 0604
PWLNRL/L 2525M-06X ⁽¹⁾	25.0	25.0	150.00	25.0	32.0	-6	-6	WNMX 0606, WNMG 0604
PWLNRL/L 2020K-08X ⁽²⁾	20.0	20.0	125.00	30.0	25.0	-6	-6	WNMX 0807, WNMG 0804
PWLNRL/L 2525M-08X ⁽²⁾	25.0	25.0	150.00	30.0	32.0	-6	-6	WNMX 0807, WNMG 0804
PWLNRL 3232P-08X ⁽²⁾	32.0	32.0	170.00	30.0	40.0	-6	-6	WNMX 0807, WNMG 0804

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

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

For inserts, see pages: WNMG-F3P (110) • WNMG-M3P (111) • WNMX-M3/4PW (119) • WNMG-F3M (112) • WNMG-M3M (113) • WNMX-M3/4MW (119)

• WNMG-NR (117) • WNMG-TNM (118) • WNMM-NM (117) • WNGA-Ceramic (178) • WNGA-M3 (CBN) (186) • WNGA-MC/M6 (CBN) (187)

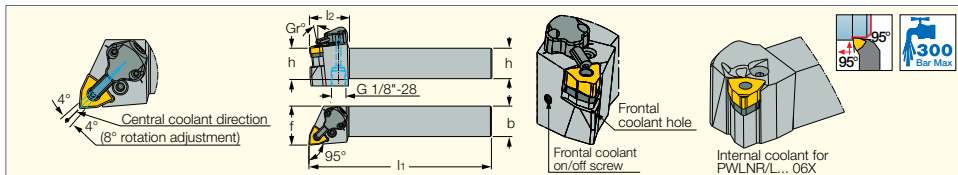
**Spare Parts**

Designation							
PWLNRL/L 2020K-06X	TWX 3	TWN 3	SP 3	LR 3	SR 117-2014	HW 2.5/5	PN 3-4
PWLNRL/L 2525M-06X	TWX 3	TWN 3	SP 3	LR 3	SR 117-2014	HW 2.5	PN 3-4
PWLNRL/L 2020K-08X	TWX 4	TWN 443	SP 4	LR 4DH	SR 117-2010	HW 3.0	PN 3-4L
PWLNRL/L 2525M-08X	TWX 4	TWN 443	SP 4	LR 4DH	SR 117-2010	HW 3.0	PN 3-4L
PWLNRL 3232P-08X	TWX 4	TWN 443	SP 4	LR 4DH	SR 117-2010	HW 3.0	PN 3-4L



PWLNR/L-X-JHP

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



Designation	h	b	l ₁	l ₂	f	G _a °	G _r °	Insert
PWLNR/L 2020K-06X-JHP ⁽¹⁾	20.0	20.0	125.00	25.0	25.0	-6	-6	WNMX 0606, WNMG 0604
PWLNR/L 2525M-06X-JHP ⁽¹⁾	25.0	25.0	150.00	25.0	32.0	-6	-6	WNMX 0606, WNMG 0604
PWLNR/L 2525M-08X-JHP ⁽²⁾	25.0	25.0	150.00	33.0	32.0	-6	-6	WNMX 0807, WNMG 0804
PWLNR/L 3232P-08X-JHP ⁽²⁾	32.0	32.0	170.00	33.0	40.0	-6	-6	WNMX 0807, WNMG 0804

• For user guide, see pages 64-71

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

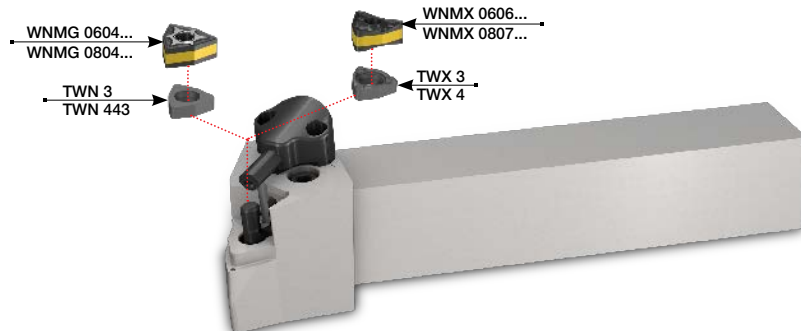
⁽²⁾ Supplied with TWX 4 seat for WNMX 0807.. inserts and TWN 443 seat for WNMG 0804.. inserts.

For inserts, see pages: WNMG-F3P (110) • WNMG-M3P (111) • WNMX-M3/4PW (119) • WNMG-F3M (112) • WNMG-M3M (113) • WNMX-M3/4MW (119)

• WNMG-NR (117) • WNMG-TNM (118) • WNMM-NM (117) • WNGA-Ceramic (178) • WNGA-M3 (CBN) (186) • WNGA-MC/M6 (CBN) (187)

CU-CW-JHP

Screw: SR M3



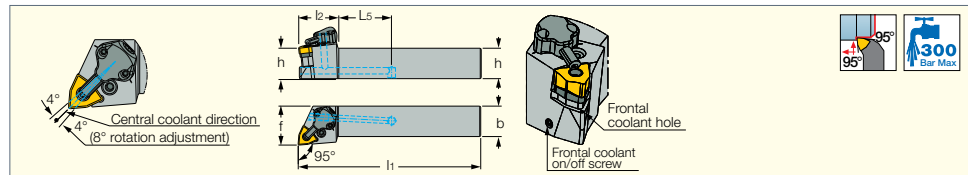
Spare Parts

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



HELITURN LD**PWLNRL/L-X-JHP-MC**

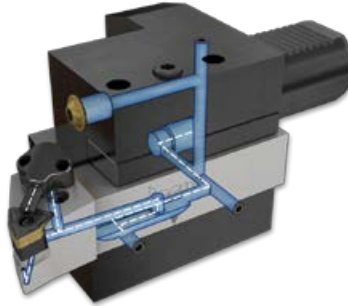
Lever Lock Tools with Bottom Inlets
for High Pressure Coolant Channels
Carrying HELITURN LD WNMX
and WNMG Trigon Inserts



Designation	h	b	l ₁	l ₂	L ₅	f	G _a °	G _r °	Insert
PWLNRL/L 2020X-06X-JHP-MC	20.0	20.0	97.00	27.0	29.00	25.0	-6	-6	WNMX 0606, WNMG 0604
PWLNRL/L 2525X-06X-JHP-MC	25.0	25.0	118.00	33.0	35.00	32.0	-6	-6	WNMX 0606, WNMG 0604
PWLNRL/L 2020X-08X-JHP-MC	20.0	20.0	97.00	27.0	29.00	25.0	-6	-6	WNMX 0807, WNMG 0804
PWLNRL/L 2525X-08X-JHP-MC	25.0	25.0	118.00	33.0	35.00	32.0	-6	-6	WNMX 0807, WNMG 0804

• For user guide, see pages 64-71

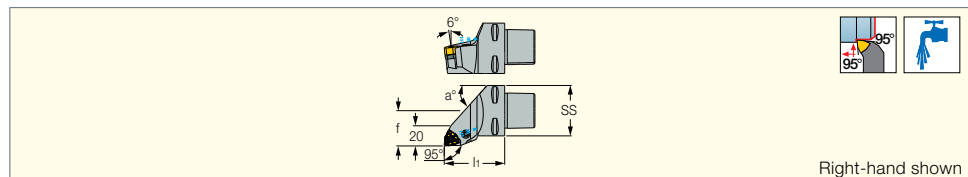
For inserts, see pages: WNMG-F3P (110) • WNMG-M3P (111) • WNMX-M3/4PW (119) • WNMG-F3M (112) • WNMG-M3M (113) • WNMX-M3/4MW (119)
• WNMG-NR (117) • WNMG-TNM (118) • WNMM-NM (117) • WNGA-Ceramic (178) • WNGA-M3 (CBN) (186) • WNGA-MC/M6 (CBN) (187)

**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
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

HELITURN LD**CAMFIX**

C#-PWLNRL/L-X
Lever Lock Tools with CAMFIX
Shanks Carrying HELITURN LD
WNMX or WNMG Inserts



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

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

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

For inserts, see pages: WNMX-M3/4MW (119) • WNMX-M3/4PW (119) • WNMG-F3P (110) • WNMG-M3P (111) • WNMG-F3M (112) • WNMG-M3M (113)

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 83	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
C5 PWLNRL/L-35060-08X	TWX 4	TWN 443	SP 4	LR 4DH	SR 117-2010	PN 3-4L	EZ 83	HW 3.0

如需了解更多，
请从网盘下载完整版...