



**Turning Inserts**

Rhombic 80° Negative Rake

Steel	P
Stainless Steel	M
Cast Iron	K
Non Ferrous	N
Super Alloys	S
Hardened Metals	H

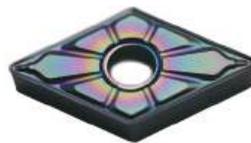


OPM

Order No.	Coating	I.C (in)	Radius	ISO Grade Range		Application
CNMG 431-OPM OC2415	CVD	0.500	0.016	P10-P25		Steel
CNMG 432-OPM OC2425	CVD	0.500	0.031	P20-P35		Steel
CNMG 433-OPM OC2325	CVD	0.500	0.047	P20-P35		Steel
CNMG 432-OPR OC2425	CVD	0.500	0.031	P20-P35		Steel
CNMG 543-OPM OC2415	CVD	0.625	0.047	P10-P25		Steel
CNMG 543-OPM OC2425	CVD	0.625	0.047	P20-P35		Steel
CNMG 543-OPR OC2425	CVD	0.625	0.047	P20-P35		Steel
CNMG 643-OPM OC2425	CVD	0.625	0.047	P20-P35		Steel
CNMG 431-OMM OP1315	PVD	0.500	0.016	P10-P25	M10-M30	Steel, Stainless Steel
CNMG 432-OMM OP1215	PVD	0.500	0.031	P10-P25	M10-M35	Steel, Stainless Steel
CNGG 432-SMF OP6115	PVD	0.500	0.031	M10-M20	S10-S20	Stainless Steel, Titanium
CNGG 432-SMF OP6105	PVD	0.500	0.031	S05-S15		Inconel, Titanium
CNMG 432-SMM OP6205	PVD	0.500	0.016	S05-S15		Inconel, Titanium
CNMG 432-SMM OP6215	PVD	0.500	0.031	M10-M20	S10-S20	Stainless Steel, Titanium
CNMG 543-QT OP6115	PVD	0.625	0.047	M10-M20	S10-S20	Stainless Steel, Titanium
CNMG 543-OPM OP1215	PVD	0.625	0.047	P10-P25	M10-M35	Steel, Stainless Steel
CNMG 643-OPR OP1315	PVD	0.750	0.047	P10-P25	M10-M30	Steel, Stainless Steel
CNMG 432-OH OPH120	PVD	0.500	0.031	P20-P40	H10-H25	Hardend Steel

**Turning Inserts**

Rhombic 55° Negative Rake



OPH

Order No.	Coating	I.C (in)	Radius	ISO Grade Range		Application
DNMG 331-OPM OC2425	PVD	0.375	0.016	P20-P35		Steel
DNMG 332-OPM OC2425	PVD	0.375	0.031	P20-P35		Steel
DNMG 431-OPM OC2425	CVD	0.500	0.016	P20-P35		Steel
DNMG 432-OPM OC2425	CVD	0.500	0.031	P20-P35		Steel
DNMG 432-OPR OC2425	CVD	0.500	0.031	P20-P35		Steel
DNMG 433-OPM OC2425	CVD	0.500	0.047	P20-P35		Steel
DNMG 433-OPR OC2425	PVD	0.500	0.016	P20-P35		Stainless Steel
DNMG 431-OMM OP1315	PVD	0.500	0.016	P10-P25	M10-M30	Steel, Stainless Steel
DNMG 432-OMM OP1315	PVD	0.500	0.031	P10-P25	M10-M30	Steel, Stainless Steel
DNMG 431-SMM OP6215	PVD	0.500	0.016	M10-M20	S10-S20	Stainless Steel, Titanium
DNMG 432-SMM OP6215	PVD	0.500	0.031	M10-M20	S10-S20	Stainless Steel, Titanium
DNMG 432-OH OPH120	PVD	0.500	0.031	P20-P40	H10-H25	Hardend Steel



**Turning Inserts**

Square 90° Negative Rake



OPM

Steel	P
Stainless Steel	M
Cast Iron	K
Non Ferrous	N
Super Alloys	S
Hardened Metals	H

Order No.	Coating	I.C	Radius	ISO Grade Range	Application
SNMG 432-OPM OC2425	CVD	0.500	0.016	P20-P35	Steel, General Purpose
SNMG 432-OPM OC2425	CVD	0.500	0.031	P20-P35	Steel, General Purpose
SNMG 543-OPM OC2425	CVD	0.625	0.047	P20-P35	Steel, General Purpose
SNMG 543-OPR OC2425	CVD	0.625	0.047	P20-P35	Stainless Steel
SNMG 643-OPR OC2425	CVD	0.750	0.047	P20-P35	Steel, General Purpose

**Turning Inserts**

Triangular 60° Negative Rake



OPM

Order No.	Coating	I.C	Radius	ISO Grade Range	Application
TNMG 331-OPM OC2425	CVD	0.375	0.016	P20-P35	Steel
TNMG 332-OPM OC2425	CVD	0.375	0.031	P20-P35	Steel
TNMG 431-OPM OC2425	PVD	0.375	0.016	P20-P35	Steel
TNMG 432-OPM OC2425	PVD	0.375	0.031	P20-P35	Steel
TNMG 433-OPM OC2425	CVD	0.500	0.016	P20-P35	Steel
TNMG 331-OMM OP1315	CVD	0.500	0.031	P10-P25 M10-M30	Steel, Stainless
TNMG 332-OMM OP1315	CVD	0.500	0.047	P10-P25 M10-M30	Steel, Stainless
TNMG 332-SMM OP6215	PVD	0.050	0.031	M10-M20 S10-S20	Stainless Steel, Titanium
TNMG 431-OMM OP1315	PVD	0.625	0.016	P10-P25 M10-M30	Steel, Stainless
TNMG 432-OMM OP1315	PVD	0.625	0.031	P10-P25 M10-M30	Steel, Stainless
TNMG 432-SMM OP6115	PVD	0.625	0.047	M10-M20 S10-S20	Stainless Steel, Titanium

**Turning Inserts**

Rhombic 35° Negative Rake



MSF

Order No.	Coating	I.C	Radius	ISO Grade Range	Application
VNMG 330.5-SL1 OP1415	PVD	0.375	0.008	P10-P25 M10-M30	Steel
VNMG 331-OPM OC2425	CVD	0.375	0.016	P20-P35	Steel
VNMG 332-OPM OC2425	CVD	0.375	0.031	P20-P35	Steel
VNMG 331-MSF OP6215	PVD	0.375	0.016	M10-M20 S10-S20	Stainless Steel, Titanium
VNMG 332-MSF OP6115	PVD	0.375	0.031	M10-M20 S10-S20	Stainless Steel, Titanium



**Turning Inserts**

Trigon 80° Negative Rake



MSF

Steel	P
Stainless Steel	M
Cast Iron	K
Non Ferrous	N
Super Alloys	S
Hardened Metals	H

Order No.	Coating	I.C	Radius	ISO Grade Range		Application
WNMG 331-OPM OC2425	CVD	0.375	0.016	P20-P35		Steel
WNMG 332-OPM OC2425	CVD	0.375	0.031	P20-P35		Steel
WNMG 431-OPM OC2425	CVD	0.500	0.016	P20-P35		Steel
WNMG 432-OPM OC2415	CVD	0.500	0.031	P10-P25		Steel,
WNMG 433-OPM OC2425	CVD	0.500	0.047	P20-P35		Steel
WNMG 431-MSF OP6215	PVD	0.500	0.016	M10-M20	S10-S20	Stainless Steel, Titanium
WNMG 432-MSF OP6215	PVD	0.500	0.031	M10-M20	S10-S20	Stainless Steel, Titanium
WNMG 432-SMM OP6205	PVD	0.500	0.031	S05-S15		Inconel, Titanium

**Turning Inserts**

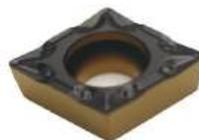
Rhombic 55° Negative Rake



Order No.	Coating	I.C (in)	Radius	ISO Grade Range		Application
KNUX 160405-R11 OP1215	PVD	0.375	0.020	P10-P25	M10-M35	Steel, Stainless Steel
KNUX 160410-R11 OP1215	PVD	0.375	0.040	P10-P25	M10-M35	Steel, Stainless Steel
KNUX 160405-L11 OP1320	PVD	0.375	0.020	P10-P20	M05-M35	Steel, Stainless Steel
KNUX 160410-L11 OP1315	PVD	0.375	0.040	P10-P35	M05-M25	Steel, Stainless Steel

**Turning Inserts**

Rhombic 80° Positive Rake



OTM

Order No.	Coating	I.C (in)	Radius	ISO Grade Range		Application
CCMT 21.50.5-MSF OP1215	PVD	0.250	0.008	P10-P25	M10-M35	Steel, Stainless Steel
CCMT 21.50.5-OTF OC2425	CVD	0.250	0.008	P20-P35		Steel
CCMT 21.51-OTF OC2425	CVD	0.250	0.016	P20-P35		Steel
CCMT 21.51-SL1 OP6215	PVD	0.250	0.016	M10-M20	S10-S20	Stainless Steel, Titanium
CCMT 21.51-MSF OP1315	PVD	0.250	0.016	P10-P35	M05-M25	Steel, Stainless Steel
CCMT 21.52-OTM OP1315	PVD	0.250	0.031	P10-P35	M05-M25	Steel, Stainless Steel
CCMT 21.52-OTM OC2425	CVD	0.250	0.031	P20-P35		Steel
CCMT 32.50.5-FML OP6215	PVD	0.375	0.008	M10-M20	S10-S20	Stainless Steel, Titanium
CCMT 32.50.5-OTF OC2425	PVD	0.375	0.008	P20-P35		Steel
CCMT 32.51-OTM OC2415	CVD	0.375	0.016	P10-P25		Steel
CCMT 32.51-TFG OP6215	CVD	0.375	0.016	M10-M20	S10-S20	Stainless Steel, Titanium
CCMT 32.52-OTM OC2415	CVD	0.375	0.031	P10-P25		Steel
CCMT 32.52-TFG OP6215	PVD	0.375	0.031	M10-M20	S10-S20	Stainless Steel, Titanium
CCMT 432-OTM OC2425	CVD	0.500	0.016	P20-P35		Steel
CCMT 432-OTM OP1215	PVD	0.500	0.031	P10-P25	M10-M35	Steel, Stainless Steel



**Turning Inserts**

Rhombic 55° Positive Rake



Steel	P
Stainless Steel	M
Cast Iron	K
Non Ferrous	N
Super Alloys	S
Hardened Metals	H

Order No.	Coating	I.C (in)	Radius	ISO Grade Range	Application
DCMT 21.50.5-MVL OC2325	CVD	0.250	0.008	P20-P35	Steel
DCMT 21.50.5-MVL OP6215	PVD	0.250	0.008	P10-P25 S10-S20	Stainless, Titanium
DCMT 21.51-OTF OC2425	CVD	0.250	0.016	P20-P35	Steel
DCMT 21.52-OTF OC2425	CVD	0.250	0.031	P20-P35	Steel
DCMT 21.51-MVL OP6215	PVD	0.250	0.016	M10-M20 S10-S20	Stainless, Titanium
DCMT 21.52-MVL OP6215	PVD	0.250	0.031	M10-M20 S10-S20	Stainless, Titanium
DCMT 32.50.5-OTF OC2415	CVD	0.375	0.008	P10-P25	Steel
DCMT 32.50.5-OTF OP6115	PVD	0.375	0.008	M10-M20 S10-S20	Stainless, Titanium
DCMT 32.51-OTF OC2425	CVD	0.375	0.016	P20-P35	Steel
DCMT 32.51-OTM OP1315	PVD	0.375	0.016	P10-P25 M10-M30	Steel, Stainless Steel
DCMT 32.52-OTM OC2425	CVD	0.375	0.031	P20-P35	Steel
DCMT 32.52-OTM OP1315	PVD	0.375	0.031	P10-P25 M10-M30	Steel, Stainless Steel
DCMT 32.52-OH OPH120	PVD	0.375	0.031	P20-P40 H10-H25	Hardend Steel

**Turning Inserts**

Triangle 60° Positive Rake



Order No.	Coating	I.C (in)	Radius	ISO Grade Range	Application
TCMT 1.81.50-OTM OP1315	PVD	0.219	0.008	P10-P25 M10-M30	Steel, Stainless Steel
TCMT 1.81.51-OTM OP1315	PVD	0.219	0.016	P10-P25 M10-M30	Steel, Stainless Steel
TCMT 21.50.5-OTM OP1315	PVD	0.250	0.008	P10-P25 M10-M30	Steel, Stainless Steel
TCMT 21.51-OTM OP1315	PVD	0.250	0.016	P10-P25 M10-M30	Steel, Stainless Steel
TCMT 21.51-OTF OC2425	CVD	0.250	0.016	P20-P35	Steel
TCMT 32.51-OTM OP1315	PVD	0.375	0.016	P10-P25 M10-M30	Steel, Stainless Steel
TCMT 32.51-OTM OC2415	CVD	0.375	0.016	P10-P25	Steel
TCMT 32.52-OTM OP1315	PVD	0.375	0.031	P10-P25 M10-M30	Steel, Stainless Steel
TCMT 32.52-OTM OC2425	CVD	0.375	0.031	P20-P35	Steel

**Turning Inserts**

Rhombic 35° Positive Rake



Order No.	Coating	I.C (in)	Radius	ISO Grade Range	Application
VBMT 221-OTF OC2425	CVD	0.250	0.016	P20-P35	Steel
VBMT 222-OTM OC2425	CVD	0.250	0.031	P20-P35	Steel
VBMT 221-OTF OP1315	PVD	0.250	0.016	P10-P25 M10-M30	Steel, Stainless Steel
VBMT 222-OTM OP1315	PVD	0.250	0.031	P10-P25 M10-M30	Steel, Stainless Steel
VBMT 331-OTF OC2425	CVD	0.375	0.016	P20-P35	Steel
VBMT 331-OTM OP1315	PVD	0.375	0.016	P10-P25 M10-M30	Steel, Stainless Steel
VBMT 332-OTM OP1315	PVD	0.375	0.031	P10-P25 M10-M30	Steel, Stainless Steel
VCMT 331-OTM OC2425	CVD	0.375	0.016	P20-P35	Steel
VCMT 332-OTM OC2425	CVD	0.375	0.031	P20-P35	Steel
VCMT 331-OTM OP1315	PVD	0.375	0.016	P10-P25 M10-M30	Steel, Stainless Steel
VCMT 332-OTM OP1315	PVD	0.375	0.031	P10-P25 M10-M30	Steel, Stainless Steel



**Turning Inserts**

Positive Rake ground Inserts

Steel	P
Stainless Steel	M
Cast Iron	K
Non Ferrous	N
Super Alloys	S
Hardened Metals	H



80°  
CCGT



55°  
DCGT



RCGT



60°  
TCGT

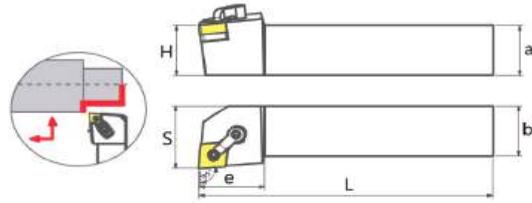


35°  
VCGT

Order No.	Coating	I.C (in)	Radius	ISO Grade Range	Application
CCGT 21.50.5-AK OK434	Uncoated	0.250	0.008	N05-N15	Aluminum, Brass, Copper, Bronze, Non Ferrous Metals, Plastic
CCGT 21.51-AK OK434	Uncoated	0.250	0.016		
CCGT 32.50.5-AK OK434	Uncoated	0.375	0.008		
CCGT 32.51-AK OK434	Uncoated	0.375	0.016		
CCGT 32.52-AK OK434	Uncoated	0.375	0.031		
DCGT 21.50.5-AK OK434	Uncoated	0.250	0.008		
DCGT 21.51-AK OK434	Uncoated	0.250	0.016		
DCGT 32.50.5-AK OK434	Uncoated	0.375	0.008		
DCGT 32.51-AK OK434	Uncoated	0.375	0.016		
DCGT 32.52-AK OK434	Uncoated	0.375	0.031		
RCGT 1204MO-NL OK434	Uncoated	0.500	N/A		
TCGT 220-AK OK434	Uncoated	0.250	0.008		
TCGT 221-AK OK434	Uncoated	0.250	0.016		
TCGT 331-AK OK434	Uncoated	0.500	0.016		
TCGT 332-AK OK435	Uncoated	0.500	0.031		
VCGT 220.5-AK OK434	Uncoated	0.250	0.008		
VCGT 21.51.5-AK OK434	Uncoated	0.250	0.016		
VCGT 330-AK OK433	Uncoated	0.375	0.008		
VCGT 331-AK OK434	Uncoated	0.375	0.016		
VCGT 332-AK OK434	Uncoated	0.375	0.031		
VCGT 43.57.5-AK OK434	Uncoated	0.500	0.047		

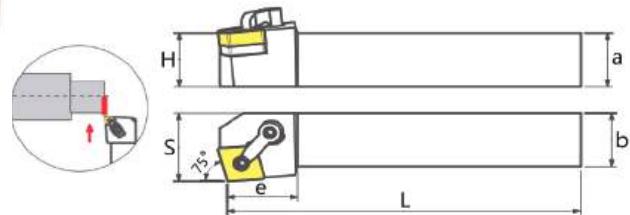


**Indexable Turning Holders**  
**MCLNR/L**  
 Negative Rake 80° Rhombic Insert



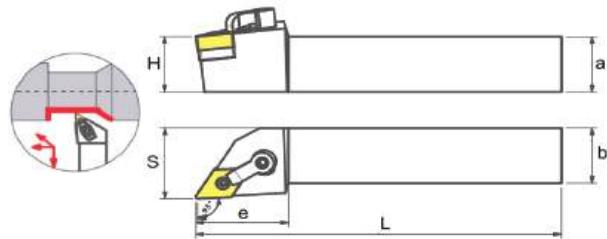
Designation	Order No. Right	Order No. Left	a	b	H	S	e	L	Insert	Spare Parts			
										Shim	Clamp	Clamp Screw	Pin
MCLNR/L 12-4B	1026-1030	1026-2030	0.750	0.750	0.750	1.000	1.250	4.500	CNMG 43				
MCLNR/L 16-4D	1026-1040	1026-2040	1.000	1.000	1.000	1.250	1.250	6.000	CNMG 43	MC1204	MCL1814	WS061030	MSP617
MCLNR/L 20-4D	1026-1050	1026-2050	1.250	1.250	1.250	1.500	1.250	6.000	CNMG 43				

**MCRNR/L**  
 Negative Rake 80° Rhombic Insert



Designation	Order No. Right	Order No. Left	a	b	H	S	e	L	Insert	Spare Parts			
										Shim	Clamp	Clamp Screw	Pin
MCRNR/L 16-4D	1026-1140	1026-2140	1.000	1.000	1.000	1.250	1.250	6.000	CNMG 43	MC1204	MCL1814	WS061030	MSP617

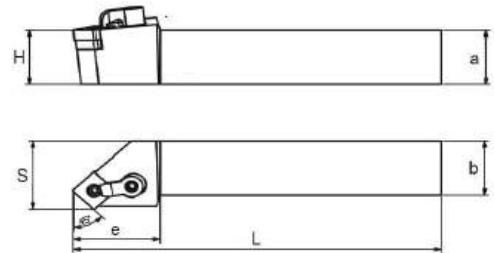
**MDJNR**  
 Negative Rake 55° Rhombic Insert



Designation	Order No. Right	Order No. Left	a	b	H	S	e	L	Insert	Spare Parts			
										Shim	Clamp	Clamp Screw	Pin
MDJNR/L 12-4B	1026-1230	1026-2230	0.750	0.750	0.750	1.000	1.250	4.500	DNMG 43				
MDLNR/L 16-4D	1026-1240	1026-2240	1.000	1.000	1.000	1.250	1.250	6.000	DNMG 43	MD1504	MCL2114	WS061025	MSP617
MDLNR/L 20-4D	1026-1250	1026-2250	1.250	1.250	1.250	1.500	1.250	6.000	DNMG 43				

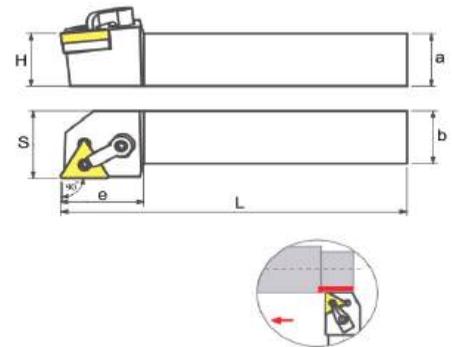


**MSSNR/L 45°  
Negative Rake Square 90° Insert**



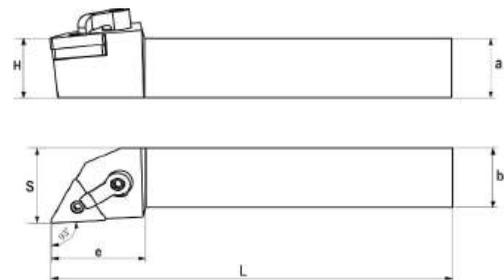
Designation	Order No. Right	Order No. Left	a	b	H	S	e	L	Insert	Spare Parts			
										Shim	Clamp	Clamp Screw	Pin
MSSNR/L 12-3D	1026-1650	1026-2650	0.750	0.750	0.750	1.000	1.250	4.500	TNMG 33				
MSSNR/L 16-3D	1026-1660	1026-2660	1.000	1.000	1.000	1.260	1.417	6.000	TNMG 33	MS1204	MCL1814	WS061025	MSP513

**MTGNR/L 90°  
Negative Rake Triangular 60° Insert**



Designation	Order No. Right	Order No. Left	a	b	H	S	e	L	Insert	Spare Parts			
										Shim	Clamp	Clamp Screw	Pin
MTGNR/L 12-3D	1026-1330	1026-2330	0.750	0.750	0.750	1.000	1.250	4.500	TNMG 33				
MTGNR/L 16-3D	1026-1340	1026-2340	1.000	1.000	1.000	1.250	1.250	6.000	TNMG 33	MT1603	MCL1814	WS061025	MSP513
MTGNR/L 16-4D	1026-1350	1026-2350	1.000	1.000	1.000	1.250	1.250	6.000	TNMG 43	MT2204	MCL2114	WS061030	MSP617

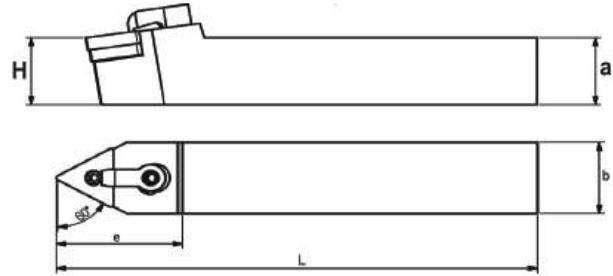
**MTJNR/L 93°  
Negative Rake Triangle 60° Insert**



Designation	Order No. Right	Order No. Left	a	b	H	S	e	L	Insert	Spare Parts			
										Shim	Clamp	Clamp Screw	Pin
MTJNR/L 12-3D	1026-1360	1026-2360	0.750	0.750	0.750	1.000	1.250	4.500	TNMG 33				
MTJNR/L 16-3D	1026-1370	1026-2370	1.000	1.000	1.000	1.250	1.250	6.000	TNMG 33	MT1603	MCL1814	WS061025	MSP513
MTJNR/L 16-4D	1026-1375	1026-2375	1.000	1.000	1.000	1.250	1.250	6.000	TNMG 43	MT2204	MCL2114	WS061030	MSP617

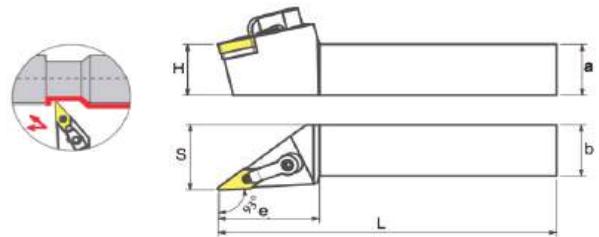


**MTENN /60°  
Negative Rake 60° Triangular Insert**



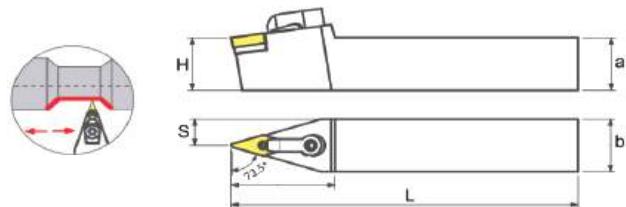
Designation	a	b	H	S	e	L	Insert	Spare Parts			
								Shim	Clamp	Clamp Screw	Pin
MTENN 16-4	1.000	1.000	1.000	1.250	1.250	6.000	TNMG 43	MT2204	MCL2114	WS061030	MSP617

**MVJNR/L 93°  
Negative Rake 35° Rhombic Insert**



Designation	Order No. Right	Order No. Left	a	b	H	S	e	L	Insert	Spare Parts			
										Shim	Clamp	Clamp Screw	Pin
MVJNR/L 12-3B	1026-1630	1026-2630	0.750	0.750	0.750	1.000	1.250	4.500	VNMG 33	MV1603	MCL2414	WS061030	MSP513
MVJNR/L 16-3D	1026-1640	1026-2640	1.000	1.000	1.000	1.250	1.250	6.000	VNMG 33	MV1603	MCL2414	WS061030	MSP513

**MVVNN 72.5°  
Negative Rake 35° Rhombic Insert**



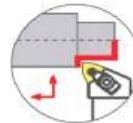
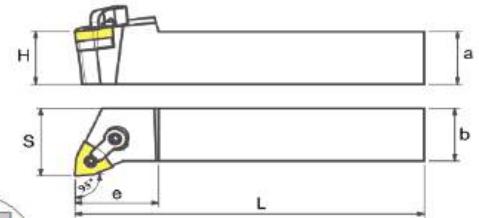
Designation	Order No.	a	b	H	S	e	L	Insert	Spare Parts			
									Shim	Clamp	Clamp Screw	Pin
MVVNN 12-3B	1026-2670	0.750	0.750	0.750	1.000	1.250	4.500	VNMG 33	MV1603	MCL2414	WS061030	MSP513
MVVNN 16-3D	1026-2680	1.000	1.000	1.000	1.250	1.250	6.000	VNMG 33	MV1603	MCL2414	WS061030	MSP513



**Indexable External Tool Holders**

**MWLNR/L 95°**

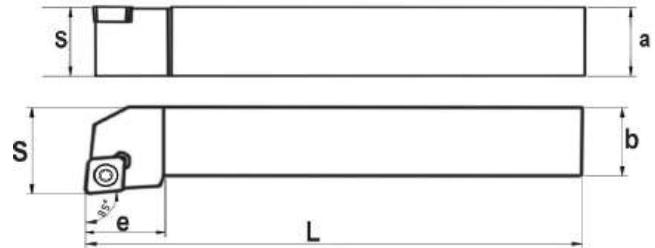
**Negative Rake 80° Trigon Insert**



Designation	Order No. Right	Order No. Left	a	b	H	S	e	L	Insert	Spare Parts			
										Shim	Clamp	Clamp Screw	Pin
MWLNR/L 12-4B	1026-1730	1026-2730	0.750	0.750	0.750	1.000	1.250	4.500	WNMG 43				
MWLNR/L 16-4D	1026-1740	1026-2740	1.000	1.000	1.000	1.250	1.250	6.000	WNMG 43	WN0804	MCL1814	WS061030	MSP617
MWLNR/L 20-4D	1026-1750	1026-2750	1.000	1.000	1.000	1.250	1.250	6.000	WNMG 43				

**SCLCR / L 95°**

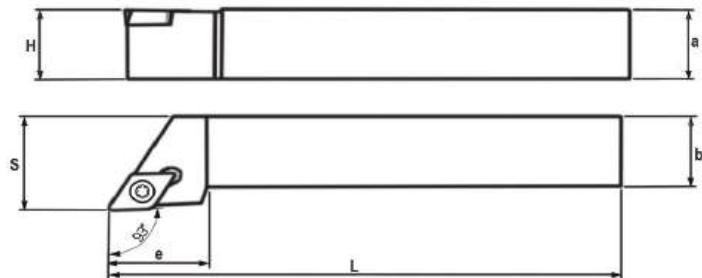
**Positive Rake 80° Rhombic Insert**



Designation	Order No. Right	Order No. Left	a	b	H	S	e	L	Insert	Spare Parts	
										Screw	Wrench
SCLCR/L 12-3B	1026-1950	1026-2950	0.750	0.750	0.750	0.945	1.000	5.000	CCMT 32		
SCLCR/L 16-4D	1026-1960	1026-2960	1.000	1.000	1.000	1.250	1.250	6.000	CCMT 32	M4X8	T15

**SDJCR / L 93°**

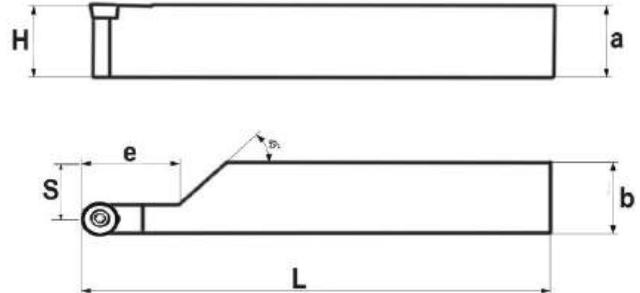
**Positive Rake 55° Rhombic Insert**



Designation	Order No. Right	Order No. Left	a	b	H	S	e	L	Insert	Spare Parts	
										Screw	Wrench
SDJCR/L 12-3B	1026-1955	1026-2955	0.750	0.750	0.750	1.000	1.000	5.000	DCMT 32		
SDJCR/L 16-4D	1026-1965	1026-2965	1.000	1.000	1.000	1.250	1.136	6.000	DCMT 32	M4X8	T15

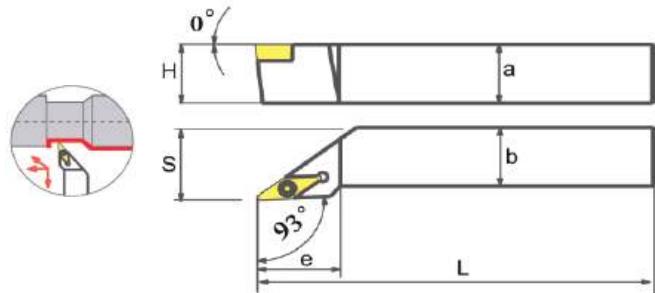


**Indexable External Tool Holders  
SRDCN ,SRACR / L °  
Positive Rake Round Insert**



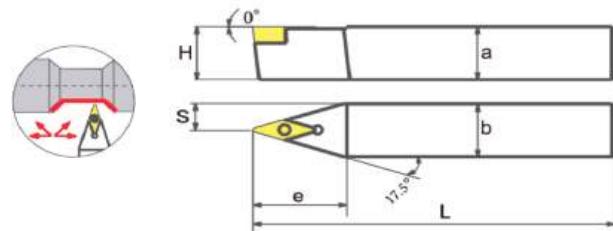
Designation	Order No. Right	Order No. Left	a	b	H	S	e	L	Insert	Spare Parts	
										Screw	Key
SRDCN 12-12	1026-1880	Neutral	0.750	0.750	0.750	0.375	1.378	5.000	RCMT 12	M3.5X12	T15
SRDCN 16-12	1026-1890	Neutral	1.000	1.000	1.000	0.500	1.378	6.000	RCMT 12		
SRACR 16-12	1029-1900	1029-2900	1.000	1.000	1.000	0.500	1.260	6.000	RCMT 12		

**SVJBR/L 93°  
Positive Rake 35° Rhombic Insert**



Designation	Order No. Right	Order No. Left	a	b	H	S	e	L	Insert	Spare Parts	
										Screw	Key
SVJBR/L 12-3B	1026-1430	1026-2430	0.750	0.750	0.750	1.000	1.250	4.500	VBMT 33	M4X8	T15
SVJBR/L 16-4D	1026-1440	1026-2440	1.000	1.000	1.000	1.250	1.250	6.000	VBMT 33		

**SVVBN 72.5°  
Positive Rake 35° Rhombic Insert**

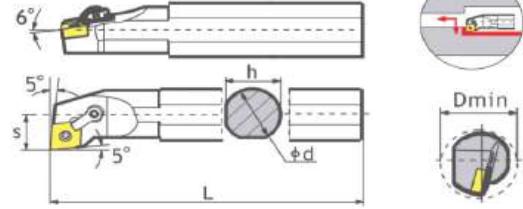


Designation	Order No.	a	b	H	S	e	L	Insert	Spare Parts	
									Screw	Key
SVVBN 12-3B	1026-1530	0.750	0.750	0.750	1.000	1.250	4.500	VBMT 33	M4X8	T15
SVVBN 16-4D	1026-1540	1.000	1.000	1.000	1.250	1.250	6.000	VBMT 33		



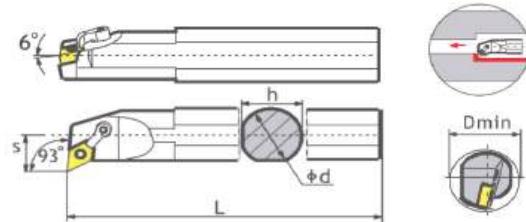
Boring Bars

S-MCLNR/L  
Negative 80° Rhombic Insert



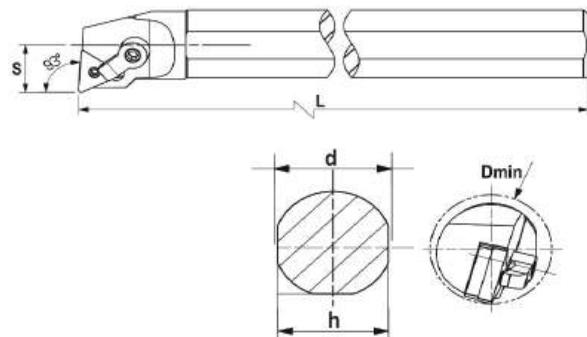
Designation	Order No. Right	Order No. Left	Dmin	d	h	L	s	Insert	Spare Parts			
									Shim	Clamp	Clamp Screw	Pin
S16T-MCLNR/L 16-4	1027-1310	1027-2310	1.250	1.00	0.921	12.00	0.64	CNMG 43				
S20U-MCLNR/L 20-4	1027-1320	1027-2320	1.530	1.25	1.171	14.00	0.765	CNMG 43	MC1204	MCL1814	WS061025	MSP617
S24V-MCLNR/L 16-4	1027-1330	1027-2330	1.970	1.50	1.382	16.00	1.02	CNMG 43				

S-MDUNR/L  
Negative Rake 55° Rhombic Insert



Designation	Order No. Right	Order No. Left	Dmin	d	h	L	s	Insert	Spare parts			
									Shim	Clamp	Clamp Screw	Pin
S20U-MDUNR/L 4	1027-1420	1027-2420	1.772	1.25	1.171	14	0.984	DNMG 43	MD1504	MC2114	WS060125	MSP617

S-MTUNR/L  
Negative Rake 60° Triangular Insert



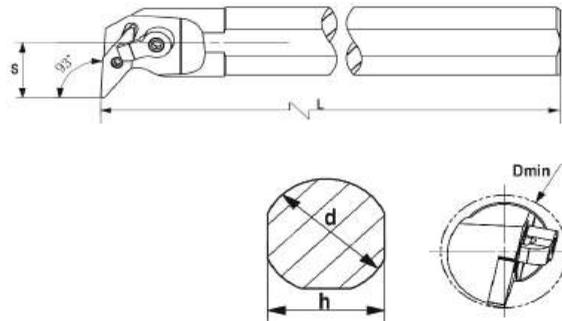
Designation	Order No. Right	Order No. Left	Dmin	d	h	L	s	Insert	Spare Parts			
									Shim	Clamp	Clamp Screw	Pin
S16T-MTUNR/L 3	1027-1910	1027-2910	1.260	1.000	0.921	12	0.670	TNMG 33	MT1603	MCL1814	WS060125	MSP510
S20U-MTUNR/L 4	1027-1920	1027-2920	1.575	1.250	1.171	14	0.827	TNMG 43	MT2204	MC2114	WS060125	MSP617



Boring Bars

S-MVUNR/L

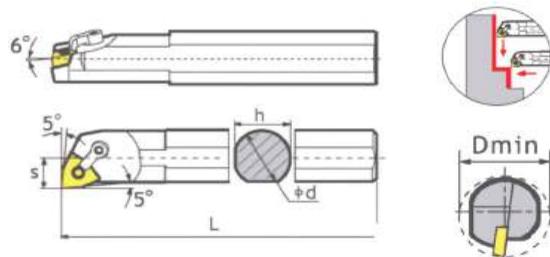
Negative Rake 35° Rhombic Insert



Designation	Order No. Right	Order No. Left	Dmin	d	h	L	s	Insert	Spare Parts			
									Shim	Clamp	Clamp Screw	Pin
S16T-MVUNR/L 3	1026-1810	1027-2810	1.378	1.000	0.921	12.000	0.787	VNMG 33	MV1603	MCL1814	WS061025	MSP510
S20U-MVUNR/L 3	1026-1820	1027-2820	1.660	1.260	1.181	14.000	0.906	VNMG 33	MV1603			

S-MWLNR/L

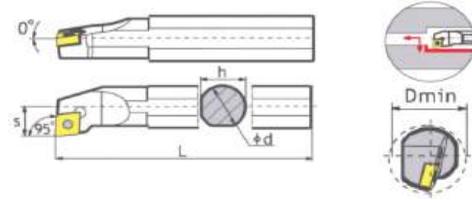
Negative Rake 80° Trigon Insert



Designation	Order No. Right	Order No. Left	Dmin	d	h	L	s	Insert	Spare Parts				
									Shim	Clamp	Clamp Screw	Pin	
S16T-MWLNR/L 4	1027-1520	1027-2520	1.280	1.000	0.921	12.000	0.640	WNMG 43		MW0804	MCL1814	WS061030	MSP617
S20U-MWLNR/L 4	1027-1530	1027-2530	1.530	1.250	1.171	14.000	0.785	WNMG 43					
S24V-MWLNR/L 4	1027-1540	1027-2540	1.970	1.500	1.382	16.000	0.984	WNMG 43					

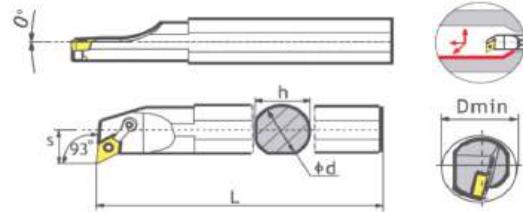


**Indexable Boring Bars**  
**S-SCLCR/L**  
**Positive Rake 80° Rhombic Insert**



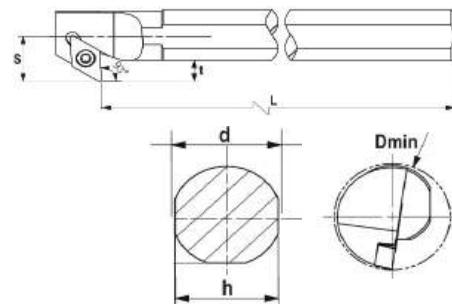
Designation	Order No. Right	Order No. Left	Dmin	d	h	L	S	Insert	Spare Parts	
									Screw	Key
S05H-SCLCR/L 2	1027-1010	1027-2010	0.354	0.312	0.290	4.000	0.190	CCMC 21.5	M2.5X5	T08
S06M-SCLCR/L 2	1027-1020	1027-2020	0.468	0.375	0.360	6.000	0.250	CCMT 21.5		
S08M-SCLCR/L 3	1027-1030	1027-2030	0.600	0.500	0.460	7.000	0.310	CCMT 32.5	M4X8	T15
S10R-SCLCR/L 3	1027-1040	1027-2040	0.866	0.625	0.590	8.000	0.410	CCMT 32.5		
S12S-SCLCR/L 3	1027-1050	1027-2050	0.920	0.750	0.670	10.000	0.500	CCMT 32.5		
S16T-SCLCR/L 3	1027-1060	1027-2060	1.120	1.000	0.920	12.000	0.610	CCMT 32.5		

**S-SDUCR/L**  
**Positive Rake 55° Rhombic Insert**



Designation	Order No. Right	Order No. Left	Dmin	d	h	L	S	Insert	Spare Parts	
									Screw	Key
S06M-SDUCR/L 2	1027-1120	1027-2120	0.625	0.375	0.360	6.000	0.315	DCMT 21.5	M2.5X5	T08
S08M-SDUCR/L 2	1027-1130	1027-2130	0.780	0.500	0.461	8.000	0.437	DCMT 21.5		
S10R-SDUCR/L 2	1027-1140	1027-2140	0.840	0.625	0.600	8.000	0.500	DCMT 21.5	M4X8	T15
S12S-SDUCR/L 3	1027-1150	1027-2150	1.125	0.750	0.670	10.000	0.582	DCMT 32.5		
S16T-SDUCR/L 3	1027-1160	1027-2160	1.500	1.000	0.921	12.000	0.750	DCMT 32.5		

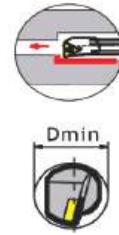
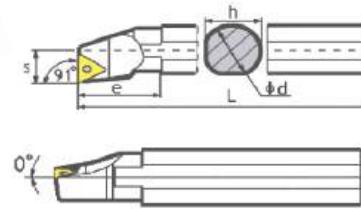
**S-SDZCR/L**  
**Positive Rake 55° Rhombic Insert**



Designation	Order No. Right	Order No. Left	Dmin	d	h	L	S	Insert	Spare Parts	
									Screw	Key
S12S-SDZCR 3	1026-1850	1026-2850	1.024	0.750	0.671	10.000	0.630	DCMT 32	M4X8	T15
S16T-SDZCR 3	1026-1860	1026-2860	1.260	1.000	0.913	12.000	0.748	DCMT 32		

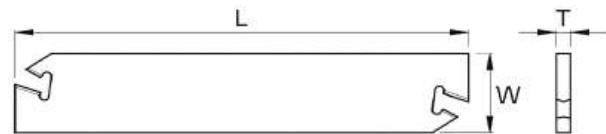


**Boring Bars**  
Positive Rake Triangular 60° Insert



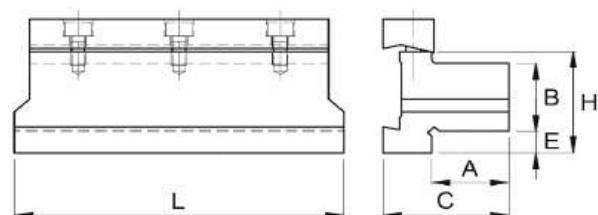
Designation	Order No. Right	Order No. Left	Dmin	d	h	L	S	Insert	Spare Parts	
									Screw	Key
S06M-STFCR/L 2	1027-1210	1027-2210	0.470	0.375	0.380	6.000	0.270	TCMT 21.5		
S08M-STFCR/L 2	1027-1220	1027-2220	0.630	0.500	0.500	7.000	0.350	TCMT 21.5	M2.5X5	T08
S10R-STFCR/L 2	1027-1230	1027-2230	0.790	0.625	0.586	8.000	0.434	TCMT 21.5		
S12S-STFCR/L 3	1027-1240	1027-2240	1.125	0.750	0.671	10.000	0.562	TCMT 32.5	M4X8	T15
S16T-STFCR/L 3	1027-1250	1027-2250	1.500	1.000	0.921	12.000	0.750	TCMT 32.5		

**Cut-Off Blades**



Designation	Order No.	T	W	L	Insert
CBL26-03	1029-1020	0.094	0.846	4.330	GTN-3N/ZQMX3
CBL26-04	1029-1030	0.126	0.846	5.300	GTN-4N/ZQMX4
CBL26-05	1029-1040	0.157	0.846	6.330	GTN-5N/ZQMX5
CBL32-03	1029-1050	0.094	0.998	5.900	GTN-3N/ZQMX3
CBL32-04	1029-1060	0.126	0.998	6.900	GTN-4N/ZQMX4
CBL32-05	1029-1070	0.157	0.998	7.900	GTN-5N/ZQMX5

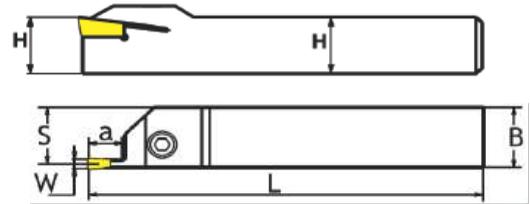
**Blade Holders**



Designation	Order No.	A	B	H	C	E	L	For Blade
BLH-0.750X0.750-26	1029-1120	0.750	0.750	1.252	1.496	0.394	3.400	26mm
BLH-0.750X0.750-32	1029-1125	0.750	0.750	1.420	1.496	0.394	3.400	32mm
BLH-1.000X1.000-32	1029-1130	1.000	1.000	1.420	1.654	0.315	4.300	32mm



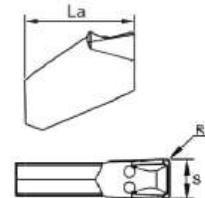
**Cut-off /Part-off Holders**



Designation	Order No. Right	Order No. Left	H	B	L	a	W	Insert	Spare Parts	
									Screw	Key
PGEHR/L 12-3	1029-1420	1029-2420	0.750	0.750	5.000	0.800	0.118/3mm	ZQMX3N	M6X20	S5
PGEHR/L 12-4	1029-1430	1029-2430	0.750	0.750	5.000	0.800	0.157/4mm	ZQMX4N		
PGEHR/L 16-3	1029-1440	1029-2440	1.000	1.000	6.000	0.800	0.118/3mm	ZQMX3N		
PGEHR/L 16-4	1029-1450	1029-2450	1.000	1.000	6.000	0.800	0.157/4mm	ZQMX4N		

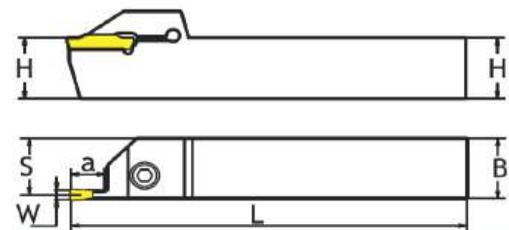
**Cut-Off Turning Inserts**

PVD Coated



Designation	Order No.	S	RE	ISO Grade Range		
ZQMX3N11-1E OP1215	12314026	0.118	0.012	P10-P35 Steel	M10-M25 SSteel	S10-S25 High Temp.
ZQMX4N11-1E OP1215	12313212	0.157	0.012			
ZQMX5N11-1E OP1215	12313221	0.197	0.012			

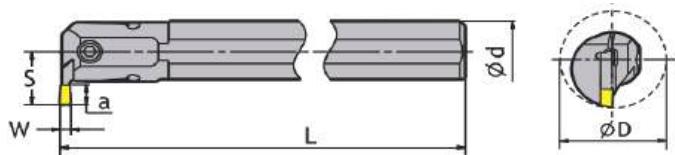
**Grooving/Turning External Holders**



Designation	Order No. Right	Order No. Left	H	B	L	a	W	Insert	Spare Parts	
									Screw	Key
MGEHR/L 16-1.5	1029-1210	1029-2210	1.000	1.000	6.000	0.740	0.060/1.5mm	MGMN150	M6X20	S5
MGEHR/L 16-2	1029-1212	1029-2212	1.000	1.000	6.000	0.740	0.080/2.0mm	MGMN200		
MGEHR/L 12-3	1029-1220	1029-2220	0.750	0.750	5.000	0.740	0.118/3.0mm	MGMN300		
MGEHR/L 12-4	1029-1230	1029-2230	0.750	0.750	5.000	0.740	0.157/4.0mm	MGMN400		
MGEHR/L 16-3	1029-1260	1029-2260	1.000	1.000	6.000	0.740	0.118/3.0mm	MGMN300		
MGEHR 16-3E	1029-1261	1029-2261	1.000	1.000	6.000	1.000	0.118/3.0mm	MGMN300		
MGEHR/L 16-4	1029-1270	1029-2270	1.000	1.000	6.000	0.740	0.157/4.0mm	MGMN400		



**Internal Grooving Holders**



Designation	Order No. Right	Order No. Left	d	S	a	D	L	W	Insert	Spare Parts	
										Screw	Key
MGIVR/L 12-2	1029-1310	1029-2310	0.750	0.570	0.236	1.000	6.000	0.079/2mm	MGMN200 MRMN200	M4X14	S3
MGVIR/L 12-3	1029-1320	1029-2320	0.750	0.614	0.236	1.000	6.000	0.118/3mm	MGMN300 MRMN300	M5X16	S4
MGVIR/L 16-3	1029-1330	1029-2330	1.000	0.799	0.236	1.250	8.000				
MGVIR/L 20-3	1029-1340	1029-2340	1.250	1.000	0.236	1.654	10.000				

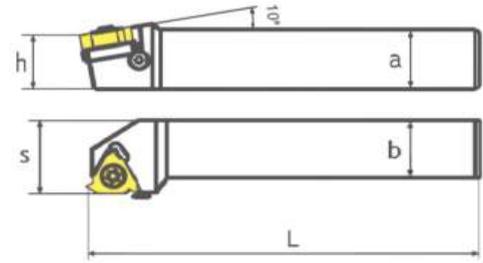
**Grooving /Turning Inserts**



Designation	Order No.	L	S	RE	ISO Grade Range		
MGMN150-G OP1215	12290410	0.630	0.060/1.5mm	0.008	P10-P35 Steel	M10-M25 SSteel	S10-S25 High Temp.
MGMN200M SD1025	12290412	0.630	0.079/2mm	0.008			
MGMN200-G OP1315	12290413	0.630	0.079/2mm	0.008			
MGMN300M SD1025	12291624	0.807	0.118/3mm	0.016			
MGMN400M SD1025	12291764	0.807	0.157/4mm	0.016			
MGMN300-G OP1315	12291625	0.807	0.118/3mm	0.016			
MGMN400-M OP1215	12291665	0.807	0.157/4mm	0.016			
MRMN200-M OP1215	13091730	0.630	0.079/2mm	0.008			
MRMN300-M OP1215	13091732	0.807	0.118/3mm	0.016			
MRMN300-M SD1025	12291731	0.807	0.118/3mm	0.016			
MRMN400M OP1315	13091733	0.807	0.157/4mm	0.016			
MRMN400M SD1025	12291650	0.807	0.157/4mm	0.016			

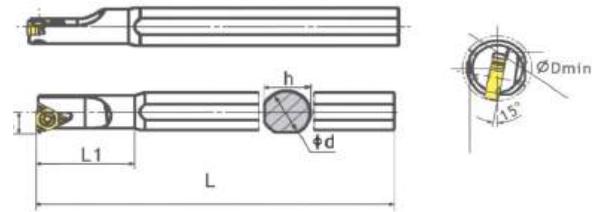


**External Threading Holders**



Designation	Order No. Right	Order No. Left	h	S	a	b	L	Insert	Spare Parts			
									Shim	Shim Screw	Screw	Key
THER 0.750 K16	1028-1030	1028-2030	0.750	0.908	0.750	0.750	5.000	16ER	TT16	SS04008	M3.5X8	T15
THER 1.000 K16	1028-1040	1028-2040	1.000	1.158	1.000	1.000	6.000	16ER/IR				
THER 1.000 M22	1028-1070	1028-2070	1.000	1.158	1.000	1.000	6.000	22ER/IR	TT22	M5X16	T20	

**Internal Threading Holders**



Designation	Order No. Right	Order No. Left	Dmin	d	h	s	L1	L	Insert	Spare Parts			
										Shim	Shim Screw	Screw	Key
THIR/L 0375 K11	1028-1110	1028-2110	0.472	0.375	0.354	0.280	0.787	5.000	11 IR	TT11	SS04008	M2.5X5	T08
THIR/L 0500 L11	1028-1115	1028-2115	0.630	0.500	0.460	0.335	0.787	5.000	11 IR				
THIR/L 0625 M16	1028-1120	1028-2120	0.800	0.625	0.586	0.468	0.866	6.000	16 IR	TT16	SS04008	M3.5X8	T15
THIR/L 0750 P16	1028-1130	1028-2130	0.984	0.750	0.711	0.547	1.339	7.000	16 IR				
THIR/L 1.000 R16	1028-1140	1028-2140	1.181	1.000	0.921	0.667	1.213	8.000	16 IR	TT22	SS04008	M5X16	T20
THIR/L 0750 P22	1028-1150	1028-2150	0.984	0.750	0.711	0.586	1.378	7.000	22 IR				
THIR/L 1000 R22	1028-1160	1028-2160	1.255	1.000	0.921	0.724	1.772	8.000	22 IR				

**Threading Inserts**

**Partial Profile 55°/60°**



Order No.	Order No	Pitch Range mm	Pitch Range TPI	IC	ISO Grade Range		
11 IR A60 OP1215	1028-1310	0.5-1.5	48-16	1/4	P10-P35 Steel	M10-M25 SSteel	S10-S25 High Temp.
11 IR A55 SD1020	1028-1320	0.5-1.5	48-16	1/4			
16 ER AG55 SD1020	1028-1400	0.5-3.0	48-8	3/8			
16 IR AG55 SD1020	1028-1410	0.5-3.0	48-8	3/8			
16 ER AG60 SD1020	1028-1420	0.5-3.0	48-8	3/8			
16 IR AG60 SD1020	1028-1430	0.5-3.0	48-8	3/8			
22 ER N60 SD1020	1028-1520	3.5-5.0	7-5	1/2			
22 IR N60 SD1020	1028-1530	3.5-5.0	7-5	1/2			