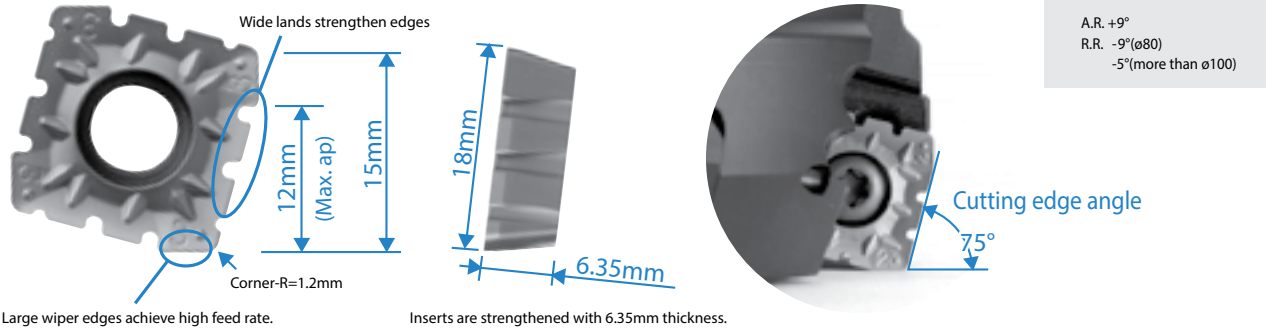


MSRS15 face mill for heavy milling

Large depth of cut and high feed rate achieves high efficiency machining

Recommended ap: 5 ~ 10mm



Large wiper edges achieve high feed rate.

Inserts are strengthened with 6.35mm thickness.

Selection of chipbreaker

	Low cutting force	General purpose	Edge strength oriented
Insert type	NB2P(4-Notched) + NB3P(5-Notched)	NB2(2-Notched) + NB3(3-Notched)	NB2T(2-Notched) + NB3T(3-Notched)
Applications	When using long arbor or for machining of thin-plate workpieces	General purpose type with good balance of strength and cutting force	For interrupted machining and high load machining When feed rate is increased or workpiece material is cast iron
Edge preparation	As many as four (or five) notches help to alleviate the shock when biting into the workpiece	Strength, edge and chip control are all well balance	Strength is increased by the edge shape and moderate rake angle of the chamfer edge

A supplemental chipbreaker is used when it is necessary to increase strength and bite while focusing on resistance, as when machining welded areas.

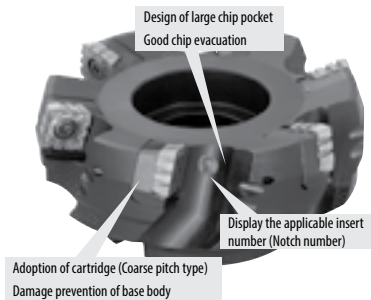


• About insert no. of NB2P (4-notched) and NB3P (5-notched)
In order to adjust applicable inserts on marked numbers on toolholders, "2+" is marked for NB2P (4-notched) and "3+" is marked on NB3P (5-notched).

Features of toolholder

Coarse pitch

Fine pitch



Higher productivity with fine pitch design



Insert replacement identification



Insert number is transcribed as a result of the cutting tool load.


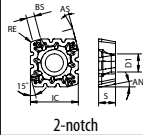

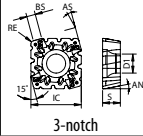

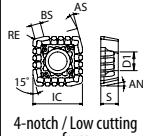

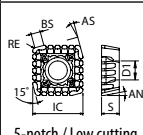

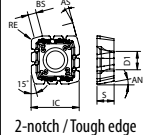

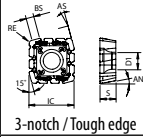

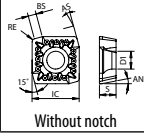


* Depending on the cutting conditions, marks are not transcribed.

M
Milling

Cutting edge angle 45°~70°
Cutting edge angle 75°
Cutting edge angle 88°/90°
Cutter for Finishing
High Feed Cutter
Multi-Function
Slot Mill
Ball-nose Radius
Others

SPMT

Insert		Description	No. of edges	Dimension (mm)					Angle (°)		Carbide			Applicable toolholder M59	
				IC	S	D1	RE	BS	AN	AS	PVD				
											PRI1810	PRI1825	PRI1835		
<p>Classification of usage</p> <p>★ : Roughing / 1st Choice ☆ : Roughing / 2nd Choice ■ : Finishing / 1st Choice □ : Finishing / 2nd Choice (In case hardness is 45HRC or under)</p>										★ ☆			P		
														M	
															K
															N
													★		S
													★		H
		SPMT 1806EDER-NB2	4	18	6.35	6.8	1.2	3.1	11	15	●	●	●	MSRS15...	
		SPMT 1806EDER-NB3	4	18	6.35	6.8	1.2	3.1	11	15	●	●	●	MSRS15...	
		SPMT 1806EDER-NB2P	4	18	6.35	6.8	1.2	3.1	11	15	●	●	●	MSRS15...	
		SPMT 1806EDER-NB3P	4	18	6.35	6.8	1.2	3.1	11	15	●	●	●	MSRS15...	
		SPMT 1806EDSR-NB2T	4	18	6.35	6.8	1.2	3.1	11	15	●	●	●	MSRS15...	
		SPMT 1806EDSR-NB3T	4	18	6.35	6.8	1.2	3.1	11	15	●	●	●	MSRS15...	
		SPMT 1806EDER-V	4	18	6.35	6.8	1.2	3.1	11	15	●	●	●	MSRS15...	

Handed insert shows Right-hand

Recommended cutting conditions M61


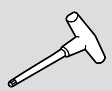
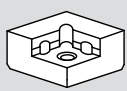

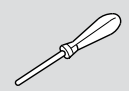
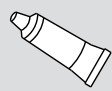

● : Standard item R : Right-hand only L : Left-hand only □ : Check availability


M60



- Cutting edge angle 45°~70°
- Cutting edge angle 75°
- Cutting edge angle 88°/90°
- Cutter for Finishing
- High Feed Cutter
- Multi-Function
- Slot Mill
- Ball-nose Radius
- Others

Spare parts (common to Metric / Inch spec)

Description		Spare parts								
		Clamp screw	Wrench	Cartridge	Clamp screw	Wrench	Anti-seize compound	Mounting bolt		
										
Coarse pitch	MSRS 15080R-○○(M)	SB-60120TR	TT-25L	MAP-1806	SB-40140TR	DT-15	P-37	HH12X35		
	MSRS 15100R-○○(M)							Recommended tightening torque for insert clamp 7.5N·m	Recommended tightening torque for cartridge clamp 3.5N·m	-
	15315R-○○(M)									
Fine pitch	MSRS 15080R-○○(M)	SB-60120TR	TT-25L	-	-	-	P-37	HH12X35		
	MSRS 15100R-○○(M)							Recommended tightening torque for insert clamp 7.5N·m	-	
	15315R-○○(M)									

 Coat anti-seize compound thinly on portion of taper and thread when insert is fixed.

Recommended cutting conditions

Workpiece material	fz (mm/t)			Recommended insert grades (Vc: m/min)		
	NB2P + NB3P	NB2 + NB3	NB2T + NB3T	MEGACOAT NANO EX		
				PR1810	PR1825	PR1835
Carbon steel	0.15	0.2	0.3	-	★ 120~180~250	☆ 120~180~220
Alloy steel	0.15	0.2	0.3	-	★ 120~180~250	☆ 120~180~220
Mold steel	0.1	0.15	0.2	-	★ 100~160~220	☆ 100~160~200
Gray cast iron	0.2	0.25	0.35	★ 120~180~250	-	-
Nodular cast iron	0.15	0.2	0.3	★ 100~160~220	-	-
Stainless steel	Not recommended					
Aluminum/Copper	Not recommended					

★: 1st Recommendation ☆: 2nd Recommendation

