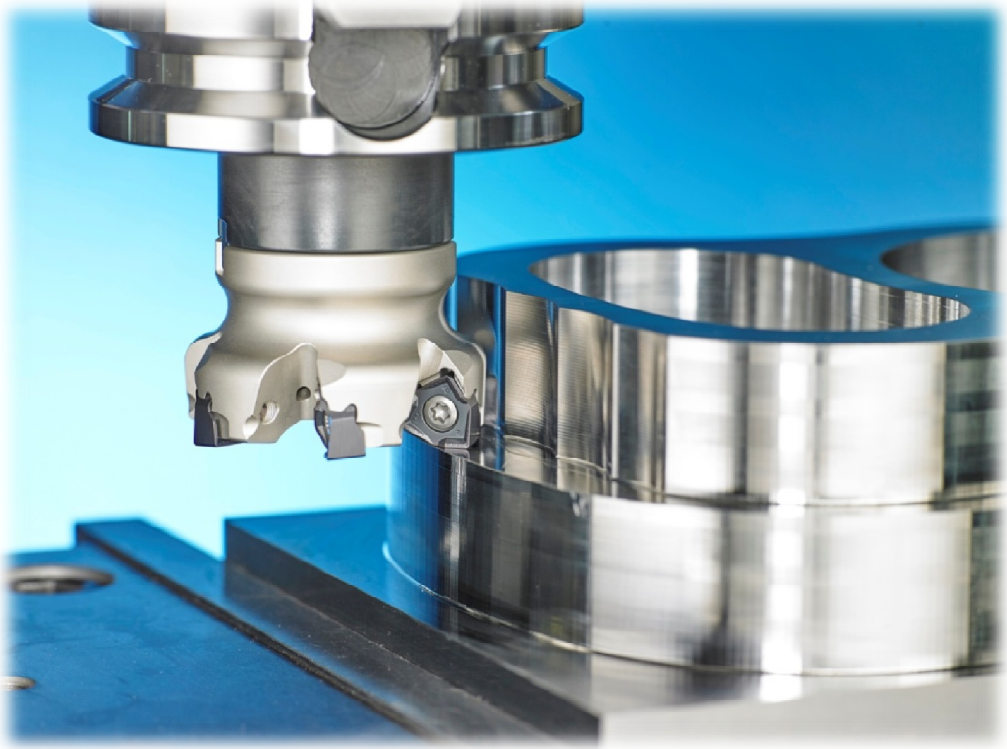
90 ° Milling Solution

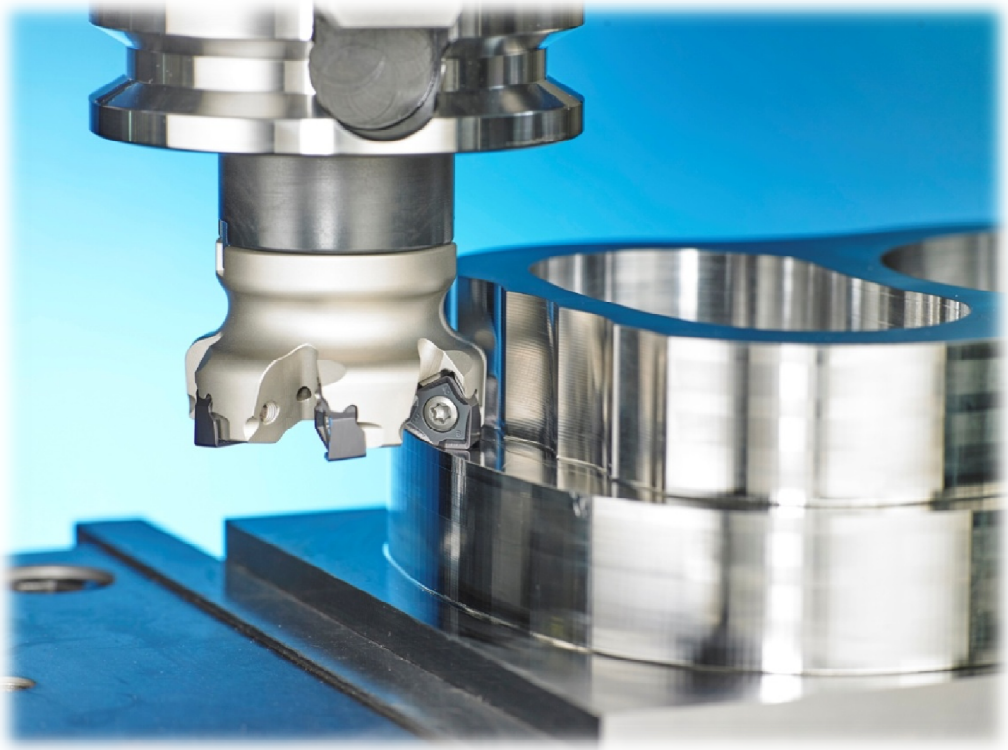


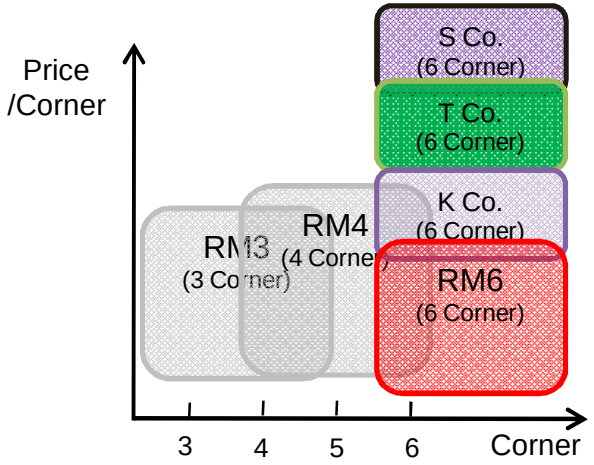
Rich MILL - RM6

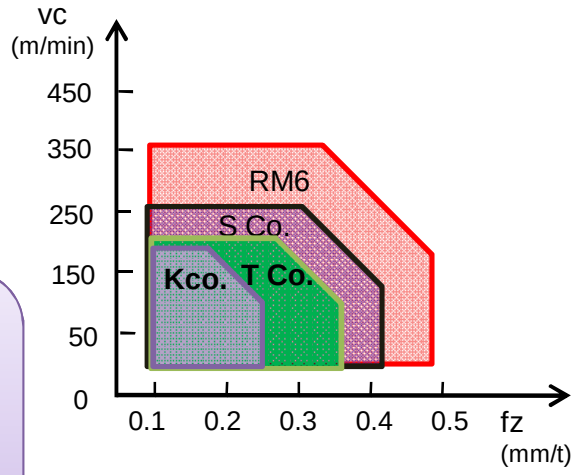
(6 Corner Double side Milling Insert)

RM6 – 6 Corner Double side Milling Insert

New KORLOY Shouldering Milling Tool-RM6

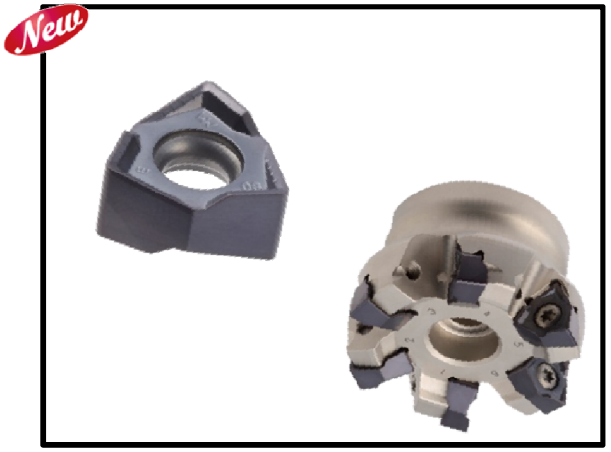






- Double-sided 6-corner inserts shouldering milling tool
- High-efficiency, high-quality, multi-functional milling tool
- Tools optimized for low-cut Shouldering machining (max 8.2 mm)

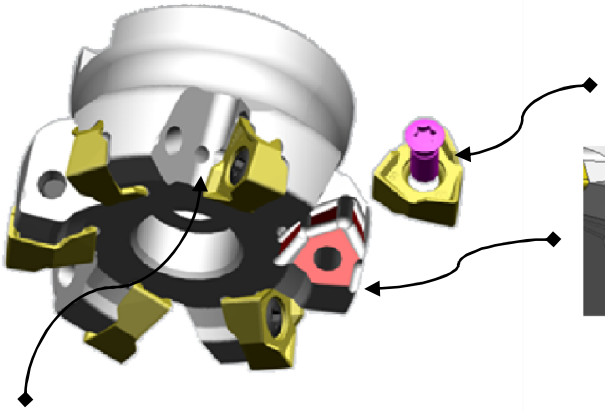
RM6 – LINE UP



Line Up	division	Dia.	Tooth
	Cutter	Ø50~125	4~14
	Shank	Ø32~50	2~4

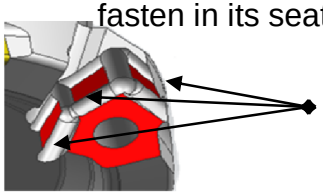
Designation	WNGX08□□□□PNSR-MM WNGX04□□□□PNSR-MM	Released	WNGX08□□□□PNER-ML WNGX04□□□□PNER-ML	Released before July
Shape				
Application	For general cutting		For light cutting	
Work piece	P,M,K		P,M,K	
Grade	PC3600, PC5300, PC5400, PC6510		PC3600, PC5300, PC5400, PC6510	

RM6 – FEATURES



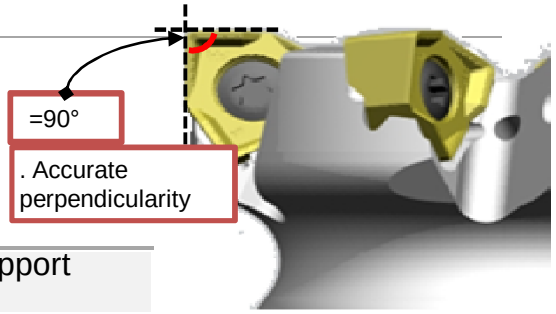
Large screw application

• Large screw (M5) application > insert securely fasten in its seat



Side: 3-sided support structure

• Guaranteed stable insert life



Through coolant system

• Improved chip evacuation
• Longer tool life due to insert-cooling system

Guaranteed fastening stability

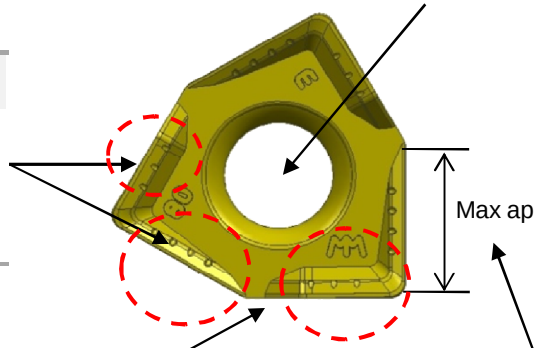
• Wide clamping surface and large screw application

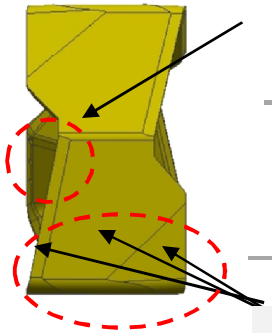
High rake angle cutting edges

• Improves cutting performance while reducing cutting load

High rake angle chip breaker

• High rake angle applied
• Produces a smooth chip flow → which extends insert life





3-level flank relief surface

• Increase rigidity and secure fastening
•Improved cutting ability

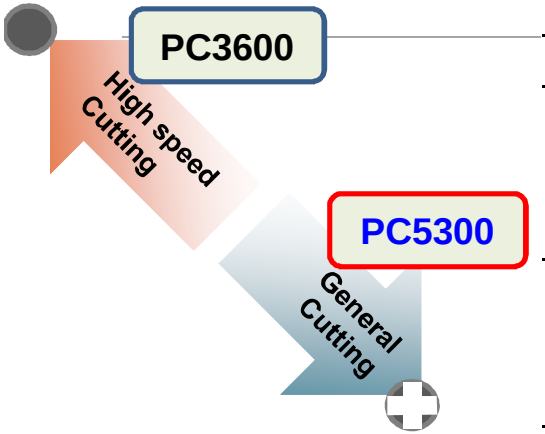
Wide wiper edge

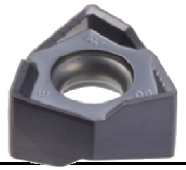
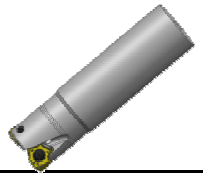
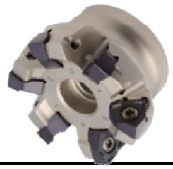
• improved surface roughness
• provides a multi-functional insert able to face mill, plunge, shoulder mill, etc.

Max ap.

• WNGX08 : 8.2mm
• WNGX04 : 4.3mm

RM6 – CONCEPT



-	INSERT	Shank	Cutter
Design			
Designation	WNGX040304PNSR-MM WNGX040304PNER-ML	RM6PS 020~032	RM6PCM040~063
	WNGX080608PNSR-MM WNGX080608PNER-ML	RM6PS032 ~063	RM6PCM040~125

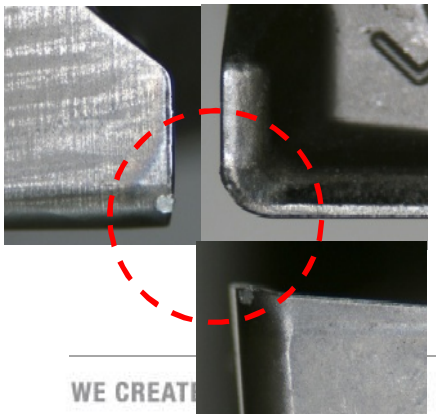
Problem

◆ Double-sided inserts limitations: causes shaking and trembling, as a consequence of a greater cutting resistance; deterioration of tool rigidity; inability to perform multi-functional machining

⇒ High cutting resistance due to rough cutting edge shape

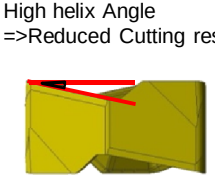
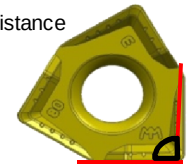
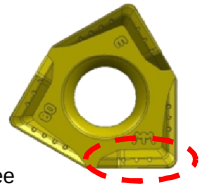
⇒ Broken due to vibration

⇒ Poor quality

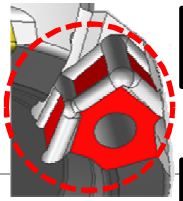


Concept

◎ Optimized insert design: achieves a more versatile high-quality machining while reducing cutting resistance

	Rich Mill - RM6
Shape	High helix Angle =>Reduced Cutting resistance   Wide Wiper edge => Facing & Plunge  Perfect Edge Design => Accurate 90 Degree

◎ Powerful fastening structure

	Rich Mill - RM6
Shape	 3-sided support structure Wide bottom seat Powerful Clamp System

Effect

◆High rake angle => sharp cutting edge which:

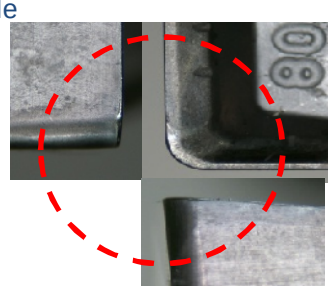
=>Prevents insert chipping

=>Achieves a smoother cutting

◆Wide wiper edge / Optimized H/D design

Result

=> **Multi functional machining** : possible



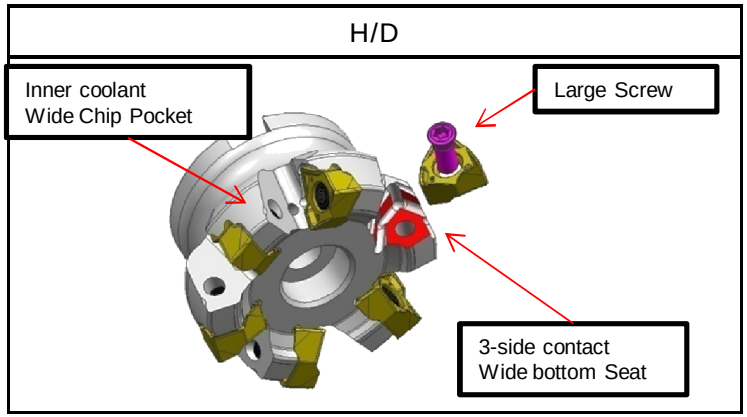
RM6 – CONCEPT

◎ Clamping stability

➔ 3-sided contact fastening structure,

➔ Wide bottom seat structure

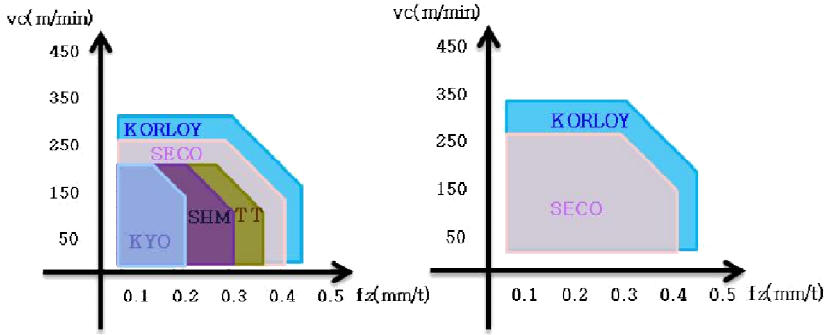
➔ large fastening by applying large screw



◎ Improved productivity

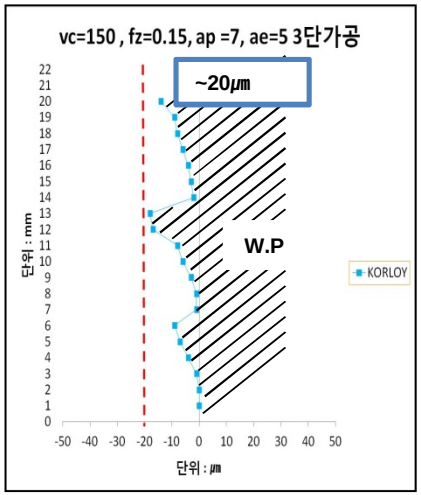
➔ due to high rake angles and sharp cutting edges which lead to lower cutting resistance

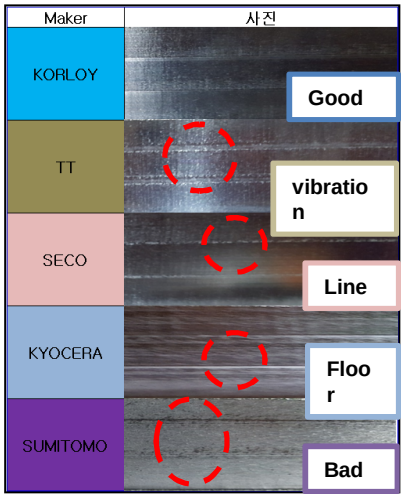
➔ Ideally suited for high speed and high feed machining



◎ Excellent surface finish & perpendicularity

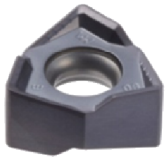
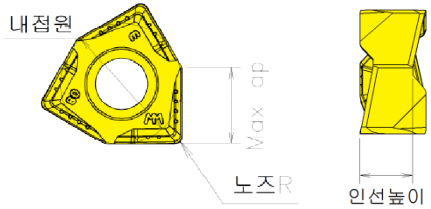
➔ nearly perfect perpendicularity, and highly even flank surface compared to competitors designs



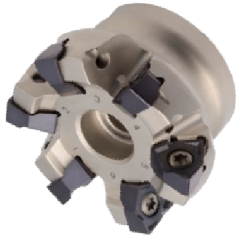
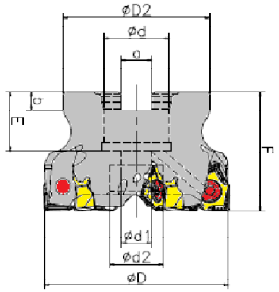


RM6 – LINE UP

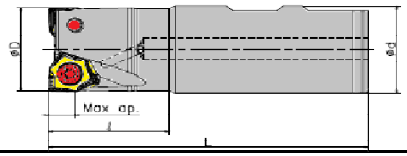
◎ **Insert**

Shape	Designation	Dimension(mm)				Grade					Drawing
		I.C	Height	NoseR	Max ap.	PC3600	PC5300	PC5400	NC5330	NC5340	
	WNGX080608PNSR-MM	8.0	6.4	0.8	8.2						
	WNGX080608PNER-ML										

◎ **Cutter**

Shape	Designation	tooth	ΦD	ΦD2	Φd	Φd1	Φd2	Φd3	a	b	E	F	ap	Drawing
	RM6PCM050R-22-4-WN08	4	50	41	22	11	18	-	10.4	6.3	20	40	8.2	
	RM6PCM063R-22-6-WN08	6	63	49	22	11	18	-	10.4	6.3	20	40		
	RM6PCM080R-27-7-WN08	7	80	57	27	14	20	35	12.4	7	23	50		
	RM6PCM100R-32-8-WN08	8	100	67	32	18	28	45	14.4	8	25	63		
	RM6PCM125R-40-11-WN08	10	125	90	40	22	32	52	16.4	10	29	63		

◎ **Shank**

Shape	Designation	Tooth	ΦD	Φd	ℓ	L	ap	Drawing
	RM6PS032R-2W32-120-WN08	2	32	32	40	120	8.2	
	RM6PS040R-3W32-120-WN08	3	40	32	40	120		
	RM6PS050R-4W32-120-WN08	4	50	32	40	120		