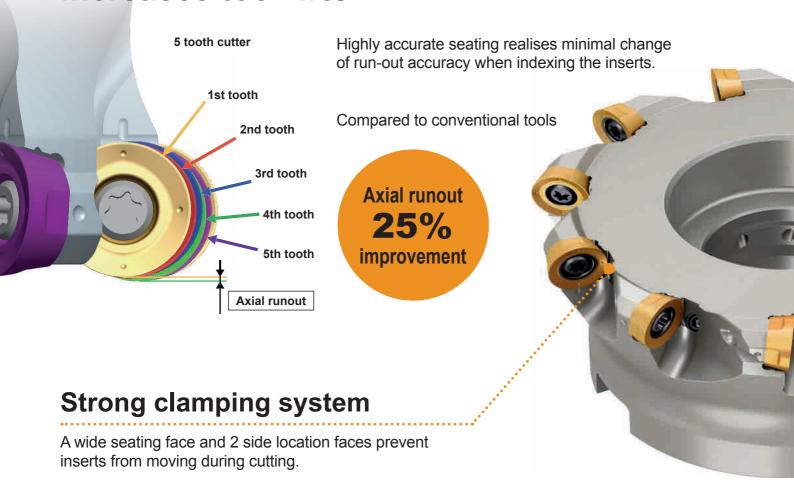
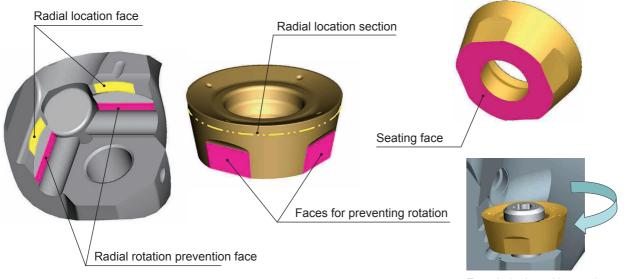


Round insert cutter for difficult-to-cut materials Highest level of run-out accuracy increases tool life.



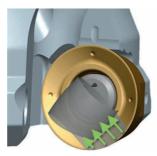


Easy indexing - No need to completely remove the clamping screw

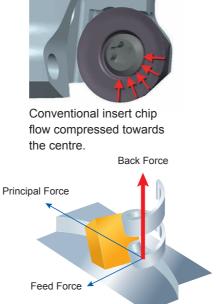
Optimised chip flow for low cutting resistance

Special rake face on each quadrant of the insert provides the smooth chip flow for low cutting resistance.

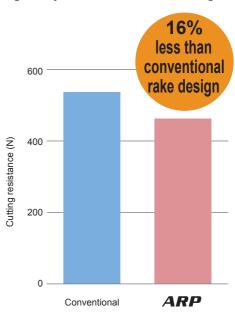




Even chip flow



[Comparison of back force]



Cutting of DIN X5CrNi189

Advice for high efficiency machining

Fine and super fine pitch cutters improve efficiency by 10-20% when compared to a regular pitch type.

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	Α	rbo	r i	tvn	A

DC (mm)	ARP5		ARP6	
	Fine Pitch	Extra Fine Pitch	Fine Pitch	Extra Fine Pitch
40 mm	5		4	
42 mm	5	6		
50, 52 mm	6	7	5	6
63, 66 mm	7	8	6	7
80 mm			8	9
100 mm			9	11

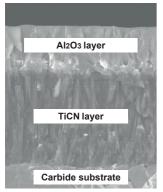
Efficiency 10-20% UP

CVD coated grade for machining of stainless steel

NEW MC7020

MC7020 has excellent wear, chipping and thermal crack resistance.

These features prevent the problems usually associated with machining stainless steel over prolonged periods



Structure of MC7020

Reduced abnormal damage

An extremely smooth black super-smooth coating prevents abnormal damage such as weld chipping.

Improved wear resistance

The micro-grain wear resistant Al2O3 and fibrous TiCN layers deliver excellent wear resistance when milling a wide range of stainless steel.

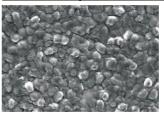
Improved fracture resistance

Use of a specially developed cemented carbide that provides superior resistance to fracture and thermal cracking prevents the cutting edge from sudden fracturing.

All black super smooth coating

This smooth outer layer helps to prevent weld chipping.

Comparison of Coating Surface



super-smooth coating

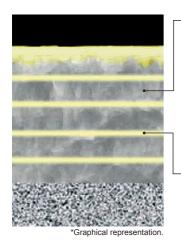


With accumulated Al-Ti-Cr-N based PVD coating

MP7100, MP9100

TOUGH—Σ Technology

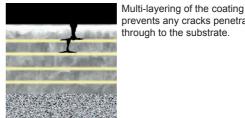
A fusion of the separate coating technologies; PVD and multi-layering realises extra toughness.



Base layer High Al-(Al, Ti)N

The new technology Al-(Al, Ti)N coating provides stabilisation of the high hardness phase and succeeds in dramatically improving wear, crater and welding resistance.

Each grade has a layer suitable for each application area



prevents any cracks penetrating through to the substrate.

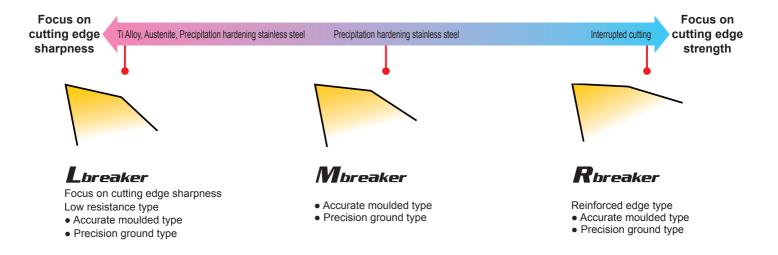




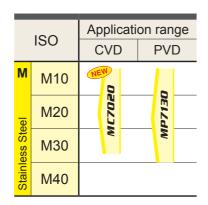


Breaker system

Breaker series for various applications



Work Material	Cutting Condition			
vvoik iviateriai	Light	General	Heavy	
М	L	M	7	
S			R	



ISO		Application range PVD
S	S10	
oy • Ti Allo	S20	WP9130
Heat Resistant Alloy • Ti Alloy	S30	MP
Heat Re	S40	