NEW PRODUCT NEWS



Tungaloy Report No. 358S1-G

Face milling cutter

Introducing CBN inserts for increased Productivity and tool life in cast iron







NEW PRODUCT NEWS

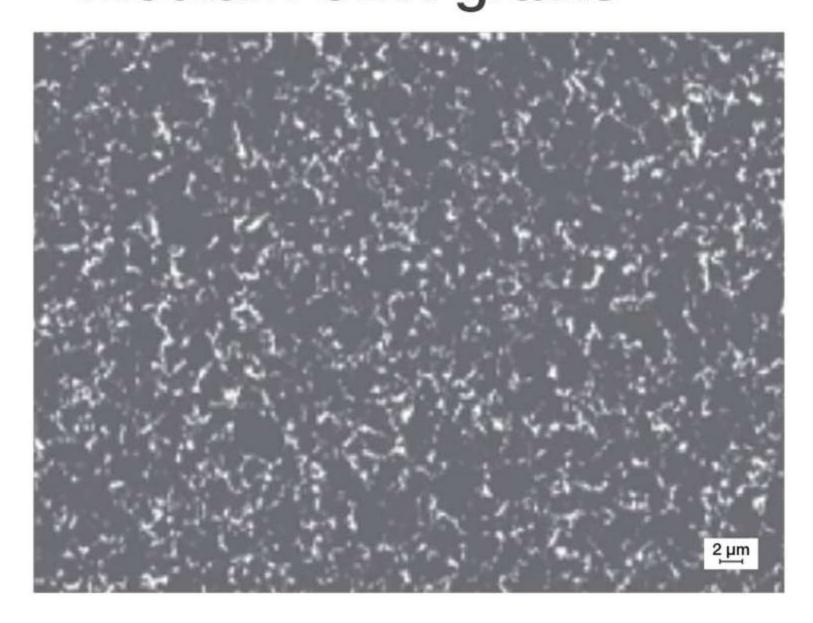
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CBN grade inserts for high-speed cast iron machining

High CBN content grade composed of extremely dense medium CBN grains



BX480 K

- High hardness
- High toughness
- High thermal conductivity

Enables high speed machining of cast iron

Cutting performance

: TPW13R160M40.0E12 (DCX = 160 mm, CICT = 12) Cutter Insert

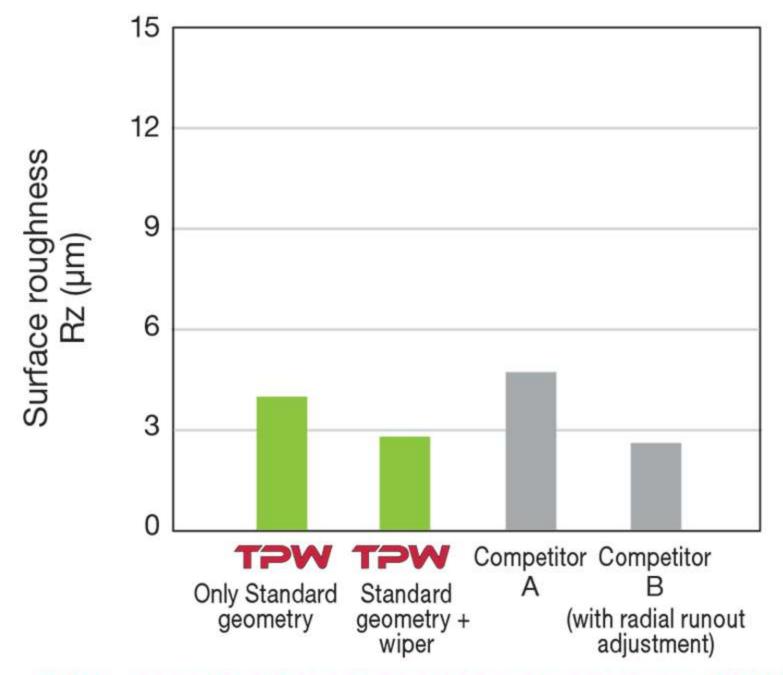
: 2-SWGW130508PDLSR BX480 (Standard geometry)

: WSGW130508PDLSR BX480 (Wiper)

Workpiece material: FC300 / 300 (220HB) : Vc = 1,500 m/minCutting speed Feed per tooth : fz = 0.15 mm/tDepth of cut : ap = 0.3 mmWidth of cut : ae = 100 / 60 mm

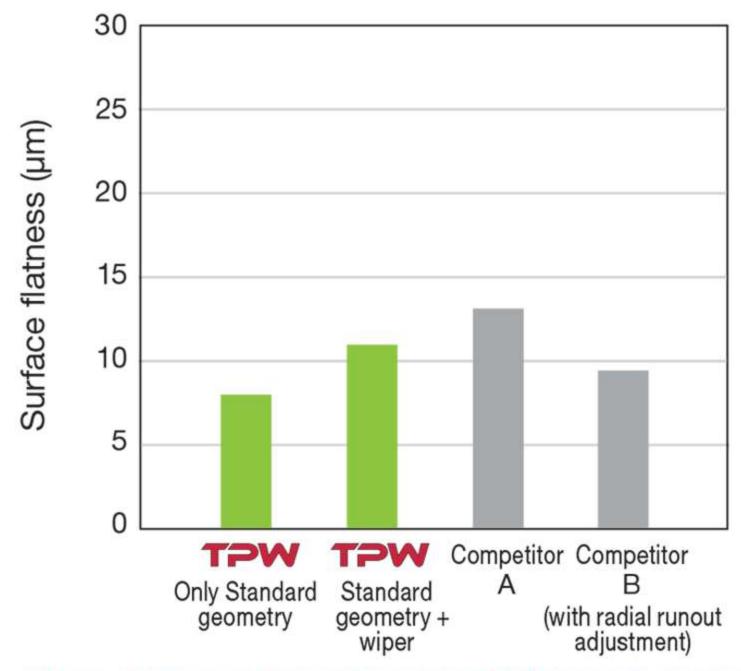
Coolant : Dry

Surface roughness



With standard inserts only and no wiper, TPW provided better surface roughness compared to Competitor A with no radial run-out adjustments. With standard + wiper inserts mixed, TPW provided the same surface quality as the competitor B with radial run-out adjustments.

Surface flatness



With standard inserts only, TPW provided better surface flatness compared to Competitor A or B.



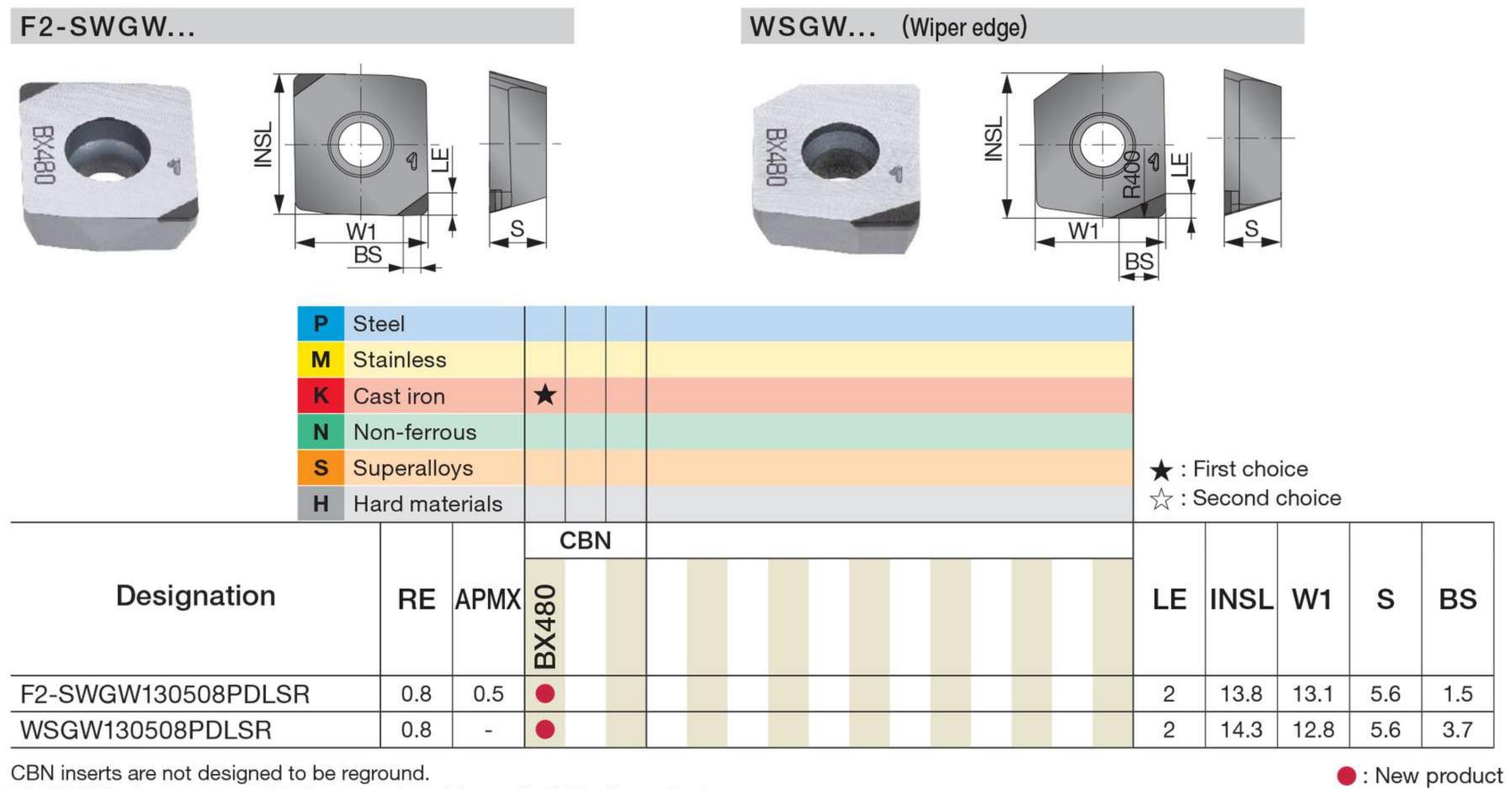


NEW PRODUCT NEWS

MEGA METAL WORK CO.,LTD

Tungaloy Report No. 358S1-G

INSERTS



CBN inserts are not designed to be reground.

F2-SWGW.... inserts are sold in 5 pcs per box. (The prefix "F" indicates five)

STANDARD CUTTING CONDITIONS

ISO	Workpiece materials	Grades	Shape	Cutting speed Vc (m/min)	Feed per tooth fz (mm/t)
K	Grey cast iron FC250, etc. 250, etc.	BX480	2-SWGW130508PDLSR	800 - 1500	0.05 - 0.3

PRACTICAL EXAMPLES

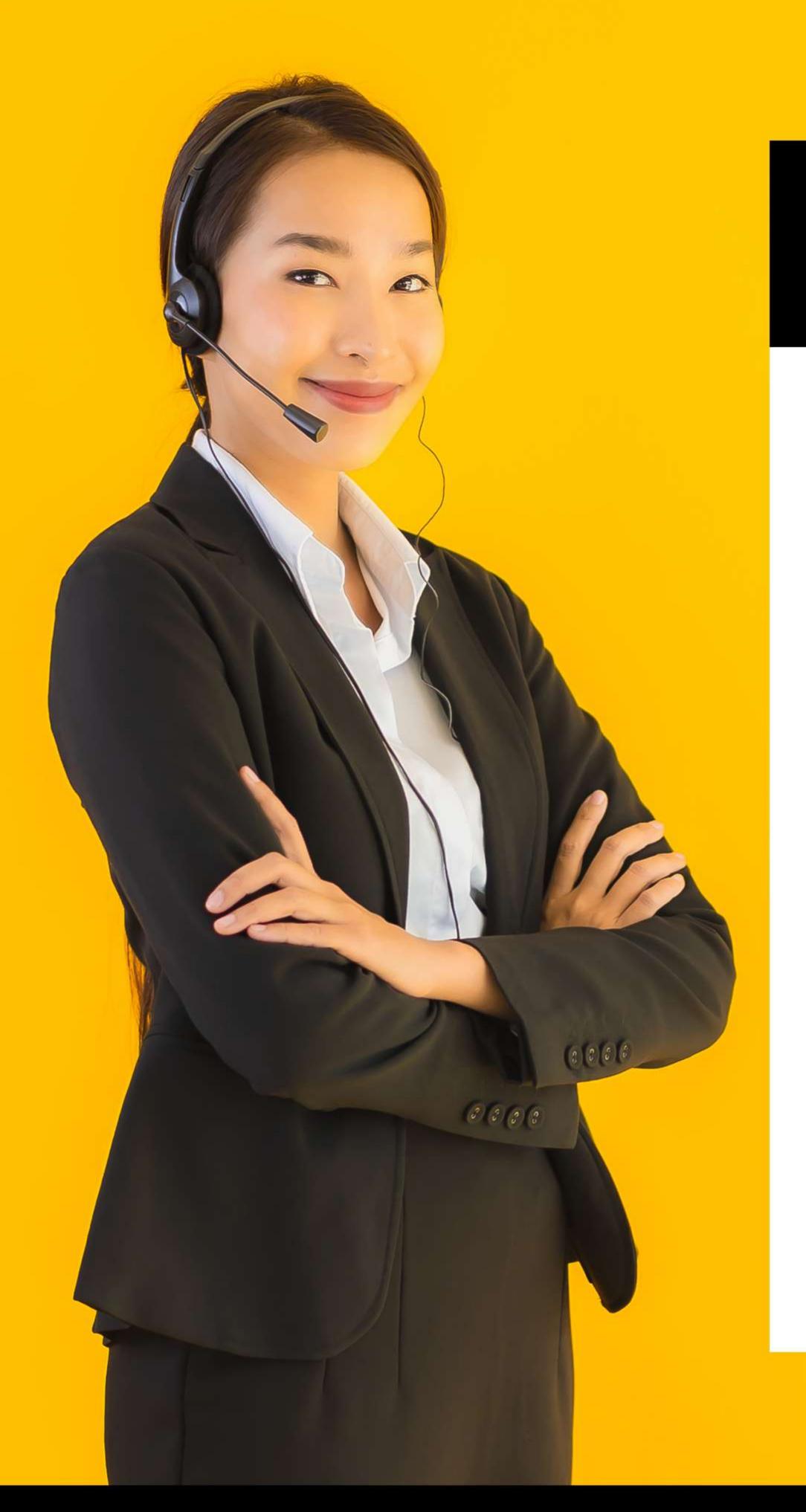
Workpiece type		Cylinder block	Cylinder block	
Cutter		TPW13R125M38.1-08 (DCX = 125 mm, CICT = 8)	TPW13 cutter (customized, DCX: 250 mm, CICT: 12 mm)	
Insert		2-SWGW130508PDLSR x6, WSGW130508PDLSR x2	2-SWGW130508PDLSR x10, WSGW130508PDLSR x2	
Grade		BX480	BX480	
Workpiece material		FC250 / 250	FC250 / 250	
2	Cutting speed: Vc (m/min)	800	1,178 ~ 1,257	
utting conditions	Feed per tooth: fz (mm/t)	0.11	0.05 ~ 0.11	
	Feed speed : Vf (mm/min)	1,760	900 ~ 1,980	
	Depth of cut : ap (mm)	0.2	0.2	
	Width of cut : ae (mm)	~ 80	~ 200	
	Machining	Face milling	Face milling	
	Coolant	Dry	Dry	
0	Machine	Horizontal M/C, KM100	Horizontal M/C, KM100	
Results		TPW provided 3.2 times tool life thanks to its strong cutting edge design.	Tool life 1.5 times! Thanks to its light-cutting geometry, TPW eliminated chatter, extending tool life by 1.5 times.	





CCNTACT US





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