To use the cutter safely and not to decrease its performance,

Please observe the following steps and each standard values.

Instruction manual for AHX640W

High efficient face milling cutter for cast iron

1. Feature of the product

a. Double positive cutting edge

Although the insert is negative typed, we succeeded to make double positive cutting edge. It shows the excellent sharpness.

b. Heptagonal indexable insert

The insert is heptagonal so it has total of 14 corners that is very economical for using.

c. Extra fine pitch / Super extra fine pitch typed cutter

This cutter provide you high speed cutting by the number of tooth.

2. Setting instruction for placing and removing the insert

a. Cleaning

Please clean up the insert and the insert pocket carefully with air blowing or a brush.

b. placing and removing

Please untighten the wedge until the position shown figure A, when you exchange the insert. Because the wedge has A.F.I. structure.

c. Clamping

Press firmly down the insert and tighten the screw by attached torques wrench.

- Prescribed tightening torque value 6.0N•m(4.44ft•lb)
- Please insert the torques wrench firmly to the bottom of the torques pitch.

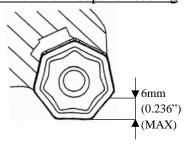
3. Attaching the tool to an arbor

a. Cleaning

Before attaching the tool, ensure that all locating faces are cleaned and are free of any obstructions.

4. Limited values

a. Maximum depth of cutting b. Maximum allowable spindle speed



Cutter Dia. (mm)	φ80 (φ3.150")	φ 100 (φ 3.937")	φ 125 (φ 4.921")	φ 160 (φ 6.299")	φ200 (φ7.874")	φ 250 (φ 9.842")	φ315 (φ12.402")
Spindle speed (min ⁻¹)	8,900	7,800	6,600	5,300	4,100	2,900	1,700
Cutter Dia. (inch)	φ3" (φ76.2)	φ4" (φ101.6)	φ5" (φ127)	φ6" (φ152.4)	φ8" (φ203.2)	φ 10" (φ 254)	φ 12" (φ 304.8)
Spindle speed (min ⁻¹)	9200	7,700	6,500	5,500	4,000	2,800	1,900

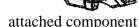
Feed per tooth

Cutting speed

Work material tensile strength (mm/tooth) (m/min) 300 0.3 ≤200MPa (250-350) (0.2-0.4)Cast iron 0.3 220 250-350MPa (0.2-0.4)(150-300) K MC5020 200 0.2 ≤450MPa (150-250) (0.1-0.3)Ductile cast iron 170 0.2 500-800MPa (150-200) (0.1-0.3) Cutting speed Feed per tooth

Grade

Work material		tensile strenght Grade		(SFM)	(inch/tooth)	
Cast Iron K Ductile cast Iron		≤200MPa		980	.012	
	_ 2001VII u		(820-1150)	(.008016)		
	250-350MPa		720	.012		
		MC5020	(490-980)	(.008016)		
		≤ 450MPa	WIC3020	655	.008	
	≥ 450Mir a		(490-820)	(.004012)		
	500-800MPa		575	.008		
	500-600MPa		(490-655)	(.004012)		

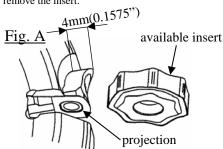


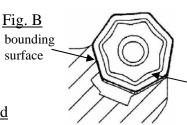
attachea component						
wedge	wedge screw	wrench				
CWAHX640WN	LS0622T	TKY15T				

Please use original parts.

If other parts are used, the performance will be inferior and the safety can not be assured.

Please untighten the wedge until the protrusion of more than 4mm(0.1575") when you place or remove the insert.





bounding surface

When you want to know the more detail of cutting condition, please order "Tools news" or access the following URL.

http://www.mitsubishicarbide.com/mmc/en/product/catalog/catalog.html

