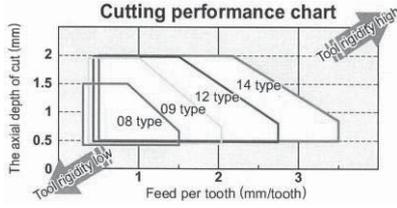


How to use **AJX** high feed radius cutter

1. Features

① The AJX can achieve high feed rates due to employing a double-phased straight main cutting edge with a minor edge.



- ② Even when using a large overhang stable machining can be conducted.
- ③ The AJX can be used as a radius milling cutter.
- ④ All items are standardized with through coolant holes.

2. How to locate the insert

- ① Prior to locating the insert, air blow the insert seat.
- ② Press firmly down on the insert when tightening the clamping screw.
(※ To prevent the screw from seizing, use anti-seize cream, additionally ensure that the clamping forces are not exceeded.)
- ③ Once the insert is firmly located, clamp the bridge down.
(※ AJX06 and 08 type do not use clamp bridge.)
- ④ To index the insert, the clamp bridge does not need to be completely removed.

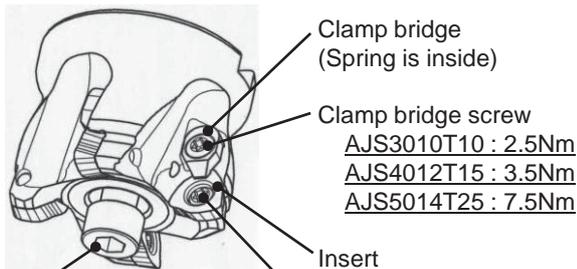
3. How to attach the tool (arbor)

[Shank type]

- ① Before attaching to a milling holder, ensure that all locating faces have been cleaned and are free of any obstructions.

[Arbor type]

- ① Before attaching to an arbor, ensure that all locating faces have been cleaned and are free of any obstructions.
- ② Set the tool into the arbor, and locate using the set screw provided with the tool.
- ③ The set screw provided with the AJX is specially designed for through coolant.



- Clamp bridge (Spring is inside)
- Clamp bridge screw
 AJS3010T10 : 2.5Nm
 AJS4012T15 : 3.5Nm
 AJS5014T25 : 7.5Nm
- Insert
- Insert clamp screw
 TS25 : 1.0Nm
 TS33 : 1.5Nm
 TS351 : 2.5Nm
 TS407 : 3.5Nm
 TS43 : 3.5Nm
 TS54 : 7.5Nm
- Set screw
 HSC10030H : 40Nm
 HSC12035H : 80Nm
 HSC16040H : 150Nm
 MBA20040H : 320Nm
 MBA24045H : 520Nm

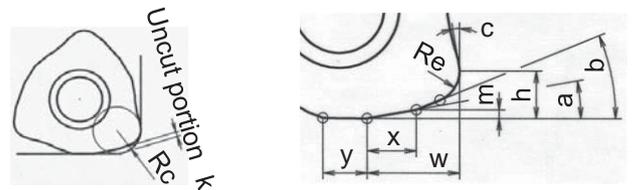
4. Various parts & torque settings

Order number	Insert	Clamp screw	Clamp bridge	Clamp bridge screw	Spring	Wrench	Set screw	
AJX06R***※	JOM※06T2** ZZ※R-※	TS25	-	-	-	TKY08F		
AJX08R***※	JOM※0803** ZZ※R-※	TS33	-	-	-	TKY08D		
AJX09R***	JDM※09T3** ZD※R-※	TS351	AMS3	AJS3010T10	ASS2	TKY10D		
AJX12R302	JDM※1204** ZD※R-※	TS407	AMS4	AJS4012T15		TKY15D		
AJX12R***		TS43						
AJX14R***	JDM※1405** ZD※R-※	TS54	AMS5	AJS5014T25		ASS3	TKY25D	
AJX09-050	JDM※09T3** ZD※R-※	TS351	AMS3	AJS3010T10			TKY10D	
AJX09-052								
AJX12-050								
AJX12R050							HSC10030H	
AJX12-052								
AJX12-063								
AJX12R063	JDM※1204** ZD※R-※	TS43	AMS4	AJS4012T15	ASS2	TKY15T	HSC12035H	
AJX12-066								
AJX12-080								
AJX12R080							HSC16040H	
AJX12-100								
AJX12R100								
AJX14-063								
AJX14R063							HSC10030H	
AJX14-066								
AJX14-080							HSC12035H	
AJX14R080								
AJX14-100	JDM※1405** ZD※R-※	TS54	AMS5	AJS5014T25	ASS3	TKY25T	HSC16040H	
AJX14R100								
AJX14-125								
AJX14R125							MBA20040H	
AJX14-160								
AJX14R160							MBA24045H	

Please use original parts. If the other parts (screws, clamp bridges etc.) are used, the performance will be inferior and safety can not be assured.

5. Cutting edge geometry

When programming please consider the tool as a Rc cutter. However, note the amount of material uncut portion after machining is (k).



Insert	Order number	Re (mm)	Rc (mm)	Uncut portion k (mm)	Cutting edge geometry (mm)							
					w	x	y	(h)	(m)	a	b	c
JOM※06T215ZZ※R-※		1.5	2.0	0.33	3.48	1.99	1.24	2.03	0.40	11.5°	23.5°	9°
JOM※080320ZZ※R-※		2.0	2.5	0.46	4.25	2.14	1.35	2.66	0.43	11.5°	23.5°	9°
JDM※09T320ZD※R-※		2.0	3.0	0.47	4.99	2.41	1.76	2.92	0.49	11.5°	23.5°	9°
JDM※120420ZD※R-※		2.0	3.0	0.63	5.81	3.07	2.47	2.98	0.54	10°	22°	9°
JDM※140520ZD※R-※		2.0	3.0	0.64	5.87	3.11	2.79	2.98	0.54	10°	22°	9°

Please send up for a catalogue [TOOLS NEWS B028] or refer to PDF catalogue [B028] on the following Web site <http://www.mitsubishicarbide.com/mmc/jp/> about recommended cutting conditions.