

NEW PRODUCT



FINISHING

Diemaster 5G MXF / XFG type

Modular Head type : φ16~42
Face mill type : φ52~66



From semi-finishing to finishing on all mold shapes.



MXF type



DIJET GmbH

www.dijet.de

Features

High efficient and Multi purpose machining

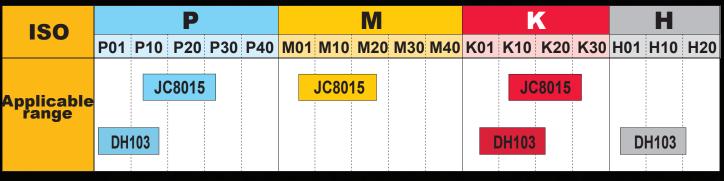
FEATURE 1

- Different grade of insert for machining different kind of materials.
- This tool can make all kind of operations, from semi-finishing to finishing, in any kind of mold.

FEATURE 2

- Economical double-side insert (with 6 cutting edges)
- High accuracy (adopted H-class insert)
- JC8015 for general & mold steel
- DH103 for hardened die steel







tool for Die and Mold.



FEATURE 3

- Many kinds of modular heads are available with combination of carbide shanks.
- The through coolant holes in the all bodies give longer tool life and safe operations in cavities.





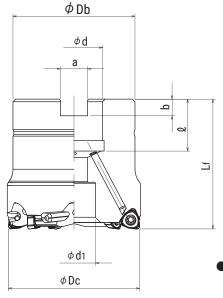
Diemaster 5G

Line up





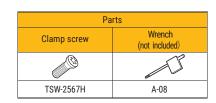




Through coolant hole

			Dimensions (mm)											
Cat. No.	Stock No. of		¢ Dc	Lf	φ Db	φd	¢ d1	а	b	l	Set bolt	Weight	Inserts	
XFG-6052R-22	•	6	52	50	47	22	16.5	10.4	6.3	20	M10	0.56	WNHU04T310	
XFG-7066R-27	٠	7	66	50	48	27	20.0	12.4	7	22	M12×1.75×30★	0.72	ZER	

 Note) 1. All cutters are supplied without inserts or wrench.
2. ★mark shows : these cutter bodies are equipped with the set bolt because of the specified bolt size. Except for these cutter bodies, please use the set bolt equipped with arbor.



Clamp screw	Recommended torque (N∙m)
TSW-2567H	1.1

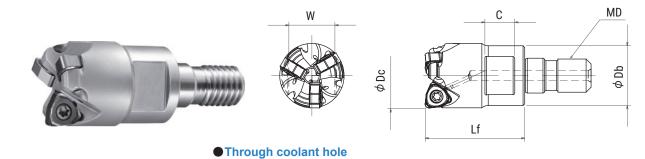
Please scan the QR code for recommended cutting conditions







Modular head type



			Dimensions (mm)							rts	
Cat. No.	Stock	k No. of					Inserts	Clamp screw	Wrench (not included)		
		inserts	¢Dc	Lf	фDb	MD	С	W			F
MXF-2016-M8		2	16	23	14	M8	8	12	WNHU04T310ZER	TSW-2567H	A-08
MXF-3020-M10		3	20	30	18	M10	9	14			
MXF-4025-M12	٠	4	25	35	22	M12	11	19			
MXF-5035-M16	٠	5	35	43	29	M16	12	22			
MXF-6042-M16	٠	6	42	43	32	M16	14	26			

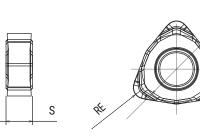
Note) All cutters are supplied without inserts or wrench.

Clamp screw	Recommended torque (N•m)
TSW-2567H	1.1

 $\langle \psi \rangle$

Inserts





Cat. No.	Televenee	PVD c	oated	Dimensions (mm)			
Cat. NO.	Tolerance	JC8015 DH103		RE	IC	S	
WNHU04T310ZER	Н	•	•	1.0	6.35	3.33	

Note) 10 inserts per case.

Diemaster 5G

Attention

Attention to mounting head and MSN/ MGN shank arbor.

- Tightening procedure
- 1 Cleaning

Remove dirt and chips with air from the connecting thread and face of modular head and MSN/MGN shank arbor.

2 Initial Tightening

Tighten by hand until the head and the shank arbor faces touch.

3 Final Tightening

Tighten slowly with torque control spanner wrench or DIJET DS type spanner wrench and confirm that there is no gap.

Attention : Final tightening without initial tightening cause connecting thread damage.

NOTE	

Note) 1. Please gently apply pressure on wrench. 2. Please confirm that there is no gap between MSN/MGN shank arbor and modular

Thread	Tightening torque	Spanner size W (mm)
M8	16N•m	12☆
M10	16N∙m	14, 15
M12	20N•m	17, 19
M16	25N∙m	22, 26

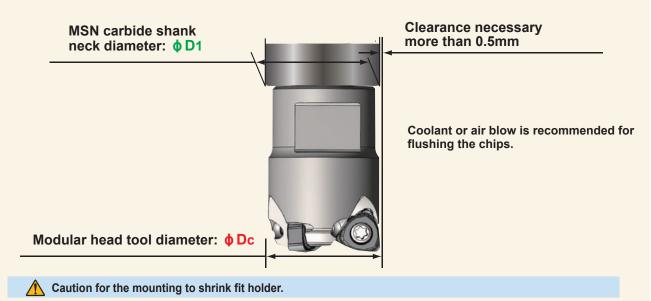
Note) 1. Modular heads are supplied without spanner wrench. In case of choosing torque control spanner wrench confirm that the wrench

- size is match to the dimensions W & C of each modular head. (There are some cases that modifying the thickness of spanner wrench is necessary)
- 3. \precsim mark shows: DIJET have a stock of DS-8 and 12 type spanner wrenches

Selection of "MSN Carbide shank arbor"

In case of using modular head over ϕ 16mm, please select MSN carbide shank arbor that diameter (ϕ D1) is 1mm or more smaller than modular head (ϕ Dc). A wrong selection causes damage to the carbide shank.

♦ Dc- ♦ D1≧1mm

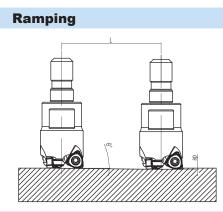


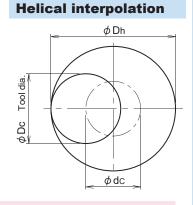
When you use a carbide shank and a modular head on the shrink fit holder, please put the only carbide shank without modular head. Please mount a modular head after cooling off.

Note) In case of shrink fit MSN shank + modular head together, it will be difficult to loose due to heat desipation.



Attention for profile milling





• Calculation of tool pass dia. $\phi dc = \phi Dh - \phi Dc$ Tool pass dia. Bore dia. Tool dia.

Depth of cut per one circuit should not exceed max. depth of cut ap.

Down cutting is recommended, so tool pass rotation should be counterclockwise.

To obtain a flat bottom surface when helical milling, it requires to remove "the uncut part" in the center of work materials at final pass.

OIn case of ramping and helical interpolation, apply 80% or less feed speed from standard cutting condition table.

 \odot In case of helical interpolation, recommend wet cutting by coolant through the tool.

				Ramping	Helical interpolation			
Cat. No.	Tool dia. (mm)	Max. depth of cut (mm)	Max. ramping angle θ°	Total cutting length at Max. ap	Through hole Min. bore dia. Dh min (mm)	Through hole Max. bore dia. Dh max (mm)	Flat bottom Max. bore dia. Dh min (mm)	
MXF-2016-M8	16	0.5	0.4	72	28.2	31	29.6	
MXF-3020-M10	20	0.5	0.3	95	36.2	39	37.6	
MXF-4025-M12	25	0.5	0.2	143	46.2	49	47.6	
MXF-5035-M16	35	0.5	0.15	191	66.2	69	67.6	
MXF-6042-M16	42	0.5	0.1	286	80.2	83	81.6	
XFG-6052R-22	52	0.5	0.1	286	100.2	103	101.6	
XFG-7066R-27	66	0.5		Ramping & heli	cal interpolation is no	t recommended.		

*Drilling is not recommended.

Please scan the QR code for recommended cutting conditions





HEADQUARTER

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