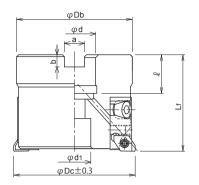
PFC/MPFTYPE

■ Facemill type









■PARTS

Clamp screw	Wrench
DSW-307H	A-10SD

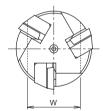
	X	Dimensions (mm)							\\\\aisab			
Cat. No.	Stock	No. of flutes	φDc	Lf	φDb	φd	φd1	а	b	l	Weight (kg)	Inserts
PFC-4050R-22		4	50	50	47	22	17	10.4	6.3	20	0.6	/3
PFC-4063R-22		4		50	60	22	17	10.4	6.3	20	1.0	DPGT0903-W3
PFC-6063R-22		6	63	50	60	22	17	10.4	6.3	20	0.9	J60 <u>.</u>
PFC-6063R-27		6		50	60	27	20	12.4	7	22	0.9	JG.
PFC-4080R-27		4	80	50	76	27	20	12.4	7	22	1.8	DF

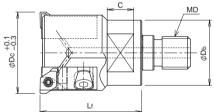
Note) All cutters are supplied without inserts or wrenches.

Recommended cutting conditions page 3

■ Modular head type







	×	of S	Dimensions (mm)						
Cat. No.	Stock	No. of flutes	φDc	Lf	φDb	MD	С	W	Inserts
MPF-2030-M16		2	30		28	M16	12.5	22	
MPF-2033-M16		_	33	50	32	M16	12.5	22	DPGT0903-W3
MPF-3040-M16		3	40		32	M16	13	26	

Note) All cutters are supplied without inserts or wrenches.

Recommended cutting conditions page 3

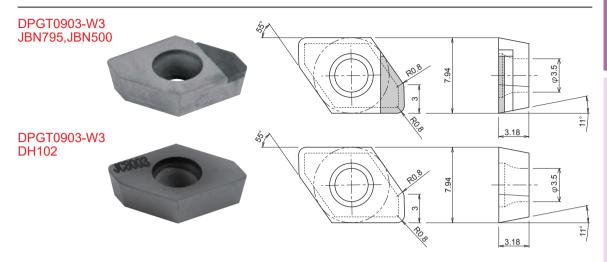
■Carbide shank arbor





PFCTYPE

INSERTS



	Tolo	PVD coated	CBN		
Cat. No. Tole- rance		DH102 (Semi finishing • Finishing)	JBN500 (Super finishing)	JBN795 (Super finishing)	
DPGT0903-W3	G	•			

¹⁰ inserts per case, but grade JBN500, JBN795 insert is packed in1 piece

■PARTS

Clamp screw		Wre	ench	Set bolt for arbor		
Recommended torque:1.8N			for ¢d=27mm cutter			
DSW-307H		A-1	0SD	M12x1.75x30		
Cartridge		ew for radial djustments	Set bolt for cartridge		Wrench for cartridge	
SDGPR09CA-PFC	R	SW-05008	HCS5-10		LW-040	

PFC/MPFTYPE

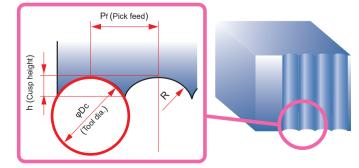
■ RECOMMENDED CUTTING CONDITIONS

TREGGIVINIENDED	RECOMMENDED COTTING CONDITIONS									
Work Materials	Insert Grades	Cutting speed Vc (m/min)	Feed per tooth fz fz (mm/t)	Depth of cut ae (mm)						
Cast iron	JBN500	1,200 (800~2,000)	0.1 (0.05~0.15)	0.05~0.1						
FC250 160-260HB	DH102 JC8003	400 (300~500) 0.15 (0.05~0.20)		0.05~0.5						
Nodularcast iron	JBN500	1,000 (600~1,500)	0.1 (0.05~0.15)	0.05~0.1						
FCD600 170 - 200HB	DH102 JC8003	300 (200~400)	0.15 (0.05~0.20)	0.05~0.5						
Carbon & Alloy steel \$50C, SCM440	DH102 JC8003	200 (100~300)	0.15 (0.05~0.20)	0.05~0.2						
	JBN795	400 (300~600)	0.1 (0.05~0.15)	0.05~0.1						
Mold steel HPM7, PX5, P20 30-36HRC	JC8003	150 (100~250)	0.1 (0.05~0.15)	0.05~0.1						
	DH102	280 (230~330)	0.1 (0.05~0.15)	0.05~0.1						
Mold steel	JBN795	300 (250~400)	0.1 (0.05~0.15)	0.05~0.1						
NAK80, HPM1, P21 38-43HRC	DH102	250 (200~300)	0.1 (0.05~0.15)	0.05~0.1						
Hard (SKD61, DAC, DHA等)	JBN795	280 (230~350)	0.1 (0.05~0.15)	0.05~0.1						
(SKD61, DAC, DHA等) 硬さ42-52HRC	DH102	230 (180~280)	0.1 (0.05~0.15)	0.05~0.1						

■ NOTE

- In case chatter occurrs and unsatisfactory surface quality due to machine and work rigidity, recommend to reduce spindle speed or feed per tooth.
- 2) In case of using as face mill, recommend to reduce feed per tooth up to 0.05mm.

■ SURFACE ROUGHNESS



h (Cusp height)
$$\mu$$
m= $\frac{(Pf)^2}{8R} \times 1000$

R:
$$\frac{\text{ΦDc (Tool dia.)}}{2}$$

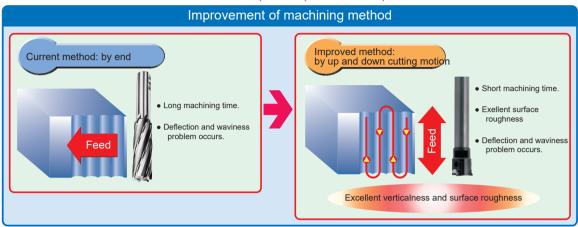
It is efficient to use large diameter cutter to increase the pick feed. But large diameter cutter may cause interference problem in case of complex work, so to be considered.

PFC/MPFTYPE

High speed up and down two way cutting can improve the efficiency and accuracy.

1 High speed & high accuracy

Surface roughness and Parallelism/Perpendicularity: 0.01mm or less (feed & pick direction).

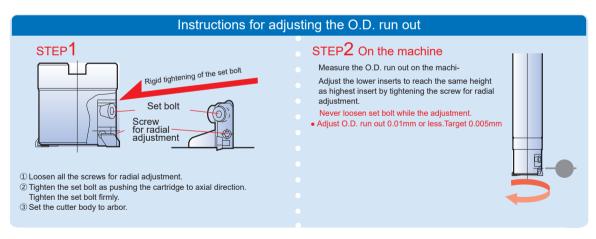


2 Suitable to use with extra overhung length.

DSA arbor: total 43 items

Available maximum overhung length: 400mm

3 Easy to adjust the O.D.run



4 CBN insert and JC8003 DV-coated insert are available as standard

CBN: JBN500 is the best grade for high speed machining and accuracy finishing and longer tool life. DV coated: JC8003 is suitable for semi-finishing to finishing.

5 Consolidating of parts...

Easy setting by using same wrench for insert clamp screw and screw for radial adjustments. And the same parts are used from smallest diameter to biggest diameter.