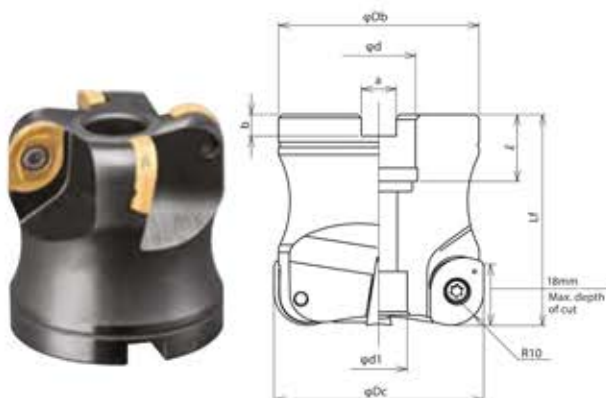




● Fig 1. Without coolant hole

● Fig 2. Without coolant hole



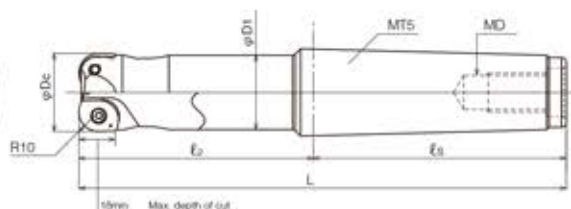
### ■ BODY/FACE MILL TYPE

Type	Cat. No.	Stock	No. of flutes	Dimensions (mm)								Set Bolt	Weight (kg)	Fig.
				$\varphi Dc$	Lf	$\varphi Db$	$\varphi d$	$\varphi d1$	a	b	$\ell$			
Metric Bore	WDR-3050R-22	●	3	50	65	47	22	9.6	10.4	6.3	19	M10x1.5x25*	0.7	1
	WDR-4063R-22	●	4	63	63	60	22	17	10.4	6.3	20	M10x1.5x50*	1.1	2
	WDR-4063R-27	●	4	63	63	60	27	20	12.4	7	22	M12x1.75x40*	1.1	2
	WDR-5080R-27	□	5	80	63	76	27	20	12.4	7	22	M12x1.75x40*	1.7	2
	WDR-6100R-32	□	6	100	63	96	32	26	14.4	8	32	M16	2.8	2
	WDR-6125R-40	□	6	125	63	100	40	32	16.4	9	32	M20x2.5x45*	4.0	2

- Note) 1. All cutters are supplied without inserts.  
 2. Please refer page C104-C105 for recommended cutting conditions.  
 3. \* 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
CSW-613H	5.5

## Wild Radius



WDR<sup>TYPE</sup>

### ■ BODY/END MILL TYPE

Type	Cat. No.	Stock	No. of flutes	Dimensions (mm)						Weight (kg)
				$\varphi Dc$	$\ell_2$	$\ell_s$	L	$\varphi D1$	MD	
MT shank type	<b>WDR-2040-120-MT5-M20</b>	●	2	40	120	130	249.5	38	M20X2.5	2.2

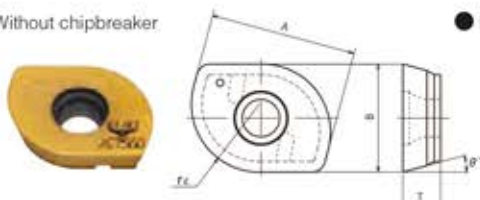
Note) All cutters are supplied without inserts

### ■ PARTS

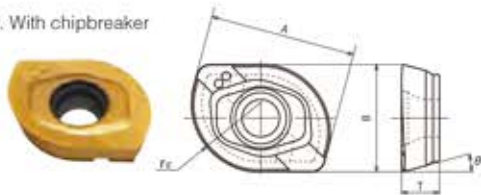
Clamps crew	Wrench
	
CSW-513H	A-20

### ■ INSERT

● Fig 1. Without chipbreaker



● Fig 2. With chipbreaker



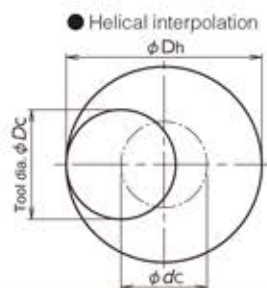
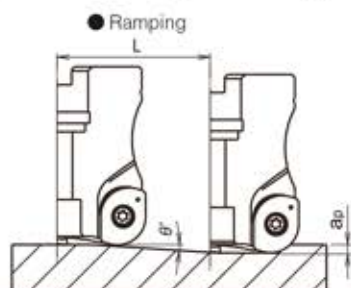
Cat. No.	Tolerance	PVD coated		Dimensions (mm)					Fig.
		JC7560	JC8118	A	T	B	$r\epsilon$	$\theta^\circ$	
<b>YDMW1505100ZTR</b>	M	●	●	21.5	5.56	15.875	10	15°	1
<b>YDMT1505100ZER</b>	M	●	●	21.5	5.56	15.875	10	15°	2

10 inserts per case

## Wild Radius

WDR<sub>TYPE</sub>

## ■ Instructions 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 circle should not exceed max. depth of cut ap.
- Down cutting is recommended & tool pass rotation should be counterclockwise.

- In case of ramping and helical interpolation, apply 70% or less feed speed from standard cutting condition table.
- In case of drilling, apply 50% or less Z axis feed speed from standard cutting condition table.
- Long continuous chips may come out in case of drilling, confirm the safe cutting conditions.

Cat. No.	Tool dia. $\phi Dc$ (mm)	Effective cutting dia. (mm)	Ramping (at $a_p=3\text{mm}$ )	Helical interpolation		Max. drilling depth Z (mm)
			Max. ramping angle $\theta^\circ$	Min. bore dia. Dh min (mm)	Max. bore dia. Dh max (mm)	
WDR-2040	40	20.1	$4^\circ 24'$	56	78	2
WDR-3050	50	30.7	$2^\circ 48'$	76	98	2
WDR-4063	63	43.4	$1^\circ 48'$	102	124	2
WDR-5080	80	60.3	$1^\circ 12'$	136	158	2
WDR-6100	100	80.2	$0^\circ 54'$	176	198	2
WDR-6125	125	104.7	$0^\circ 36'$	226	248	2

Note) For tool dia.  $\phi 40$ - $\phi 63\text{mm}$ , recommended ramping angle is  $1^\circ$  or less.  
For tool dia.  $\phi 80$ - $\phi 125\text{mm}$ , recommended ramping angle is  $0^\circ 30'$  or less.