

4 Flutes UTCOAT Oval Barrel Form



# COVB

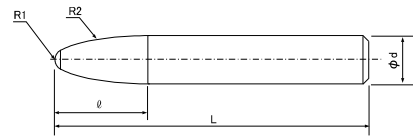
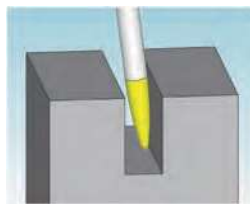
Super MG
UT COAT
Form ±0.01
Shank Dia 0/-0.005

**NEW**

Material Applications (★ Highly Recommended ● Recommended ○ Suggested)

Work Material																	
Carbon Steels S45C S55C	Alloy Steels SK / SCM SUS	Prehardened Steels NAK HPM	Hardened Steels					Cast Iron	Aluminum Alloys	Graphite	Copper	Plastics	Glass Filled Plastics	Titanium Alloys	Heat Resistant Alloys	Cemented Carbide	Hard Brittle (Non-Metallic) Materials
			~50HRC	~55HRC	~60HRC	~65HRC	~70HRC										
●	●	●	●	●				○	●		●			○	○		

**Features**  
 Broad range of application available with UTCOAT.  
 Suitable for narrow interference area with small inclined angle.



- φ3mm Shank V Series
- UDC-PCD Series
- CBN Series
- Square
- Long Neck Square
- Radius
- Long Neck Radius
- Taper Neck Radius
- Ball / Long Shank Ball
- Long Neck Ball
- Taper Neck Ball
- Taper
- Barrel
- Spiral V Cutter
- Drill
- Technical Data

Total 4 models

Unit (mm)

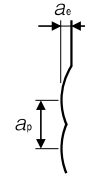
Model Number	Tip R R1	Barrel R R2	Length of Cut ℓ	Overall Length L	Shank Diameter φd	Suggested Retail Price ¥
<b>COVB 4020-85</b>	R1	R85	19.2	60	6	23,400
<b>COVB 4020-90</b>		R90	23.9	70	8	29,000
<b>COVB 4040-80</b>	R2	R80	23.4	80	10	33,330
<b>COVB 4040-80-12</b>		R80	26.6	80	12	40,320

## Milling Conditions for COVB

WORK MATERIAL			ALUMINUM ALLOYS A7075				PREHARDENED STEELS PXA30(30~45HRC)				HARDENED STEELS SKD61 / STAVAX(45~55HRC)			
Model Number	Tip R (mm)	Barrel R (mm)	Spindle Speed (min <sup>-1</sup> )	Feed Rate (mm/min)	$a_p$ Axial Depth (mm)	$a_e$ Radial Depth (mm)	Spindle Speed (min <sup>-1</sup> )	Feed Rate (mm/min)	$a_p$ Axial Depth (mm)	$a_e$ Radial Depth (mm)	Spindle Speed (min <sup>-1</sup> )	Feed Rate (mm/min)	$a_p$ Axial Depth (mm)	$a_e$ Radial Depth (mm)
4020-85	R1	R85	10,500	2,400	2.85	0.1	4,700	1,070	2.4	0.1	3,800	900	1.9	0.07
4020-90		R90	9,250	2,200	3.6	0.1	4,250	980	2.9	0.1	3,500	850	2.4	0.07
4040-80	R2	R80	8,000	2,000	3.5	0.1	3,800	900	3	0.1	3,200	800	2.4	0.07
4040-80-12		R80	6,750	1,800	4	0.1	3,350	900	3.4	0.1	2,900	750	2.7	0.07

Note:

•Set spindle speed, feed rate, and axial depth ( $a_p$ ) in accordance with the required surface quality.



4 Flutes

Ø3mm Shank  
V Series

UDC-PCD  
Series

CBN  
Series

Square

Square

Long Neck  
Square

Radius

Radius

Long Neck  
Radius

Taper Neck  
Radius

Ball

Ball / Long  
Shank Ball

Long Neck  
Ball

Taper Neck  
Ball

Taper

Taper

Barrel

Spiral  
V Cutter

Drill

Technical Data

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