



Size $\phi 3 \sim \phi 12$

SV



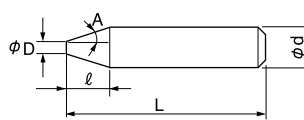
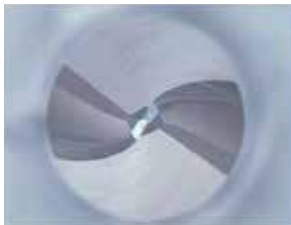
Material Applications (☆ Highly Recommended ○ Recommended ○ Suggested)

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
			~55HRC	~60HRC	~70HRC										
○	○	○				○	○	○	○	○					

Features

Spiral type Chamfering cutter.
Half included angle 45 degree.

By applying a spiral peripheral cutting edge, burrs are greatly reduced when compared to a straight cutting edge design.



Total 6 models

Unit (mm)

Model Number	Tip Diameter ϕD	Length of Cut ℓ	Overall Length L	Half Included Angle A	Shank Diameter ϕd	Price (¥)
SV 2030	0.8	1.1	40	45°	3	13,000
SV 2040		1.6	45		4	14,000
SV 2060	1	2.5	50		6	15,750
SV 2080		3.5	60		8	19,250
SV 2100		4.5	70		10	27,500
SV 2120		5.5	75		12	32,230

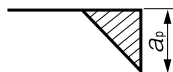
Milling Conditions for SV

WORK MATERIAL		CARBON STEELS S45C / S50C (~225HB)		ALLOY STEELS SK / SCM / SUS (225~325HB)		PREHARDENED STEELS HARDENED STEELS NAK / SKD (30~45HRC)	
Velocity		Vc=25~50m/min		Vc=20~40m/min		Vc=15~40m/min	
Model Number	Shank Diameter (mm)	Spindle Speed (min ⁻¹)	Feed Rate (mm/min)	Spindle Speed (min ⁻¹)	Feed Rate (mm/min)	Spindle Speed (min ⁻¹)	Feed Rate (mm/min)
2030	3	2,700~5,300	59~86	2,100~4,200	46~67	1,600~3,200	35~51
2040	4	2,000~4,000	48~68	1,600~3,200	38~54	1,200~2,400	29~41
2060	6	1,300~2,700	36~49	1,100~2,100	31~42	800~1,600	22~30
2080	8	1,000~2,000	32~42	800~1,600	26~34	600~1,200	22~30
2100	10	800~1,600	30~37	640~1,300	23~29	600~1,200	17~22
2120	12	700~1,300	28~35	530~1,100	21~27	400~800	17~22

Milling Amount (mm)

$$a_p = 0.1d$$

a_p : Axial Depth (mm)



Note:

- The figures listed above are for nominal diameters. Adjust the speed and feed rate according to the correct diameter.
- Recommend slot milling with the tip flutes. Decrease the feed rate 50% from the milling parameters in this case.
- Recommend water soluble or oil coolant.

Square

Square
Long Neck
Square

Radius

Radius
Long Neck
RadiusBall / Long
Shank BallBall
Long Neck
BallTaper Neck
BallTaper
TaperSpiral
V CutterDrill
Thread Mill

EURO Series

Technical Data