

Specification		Unit	Model	Remark
Item	Details		MS12	
● Capability	Max Machin'g Dia	mm	12	
	Max Stroke	mm	190	
	Max Stroke (Rotary Guide)	mm	70	
● OD tools	No. of tools	ea	5 (7,9 OPT)	
	Tool shank	mm	10 x 10	
● ID Tools(Sleeve holder) (rear machinable)	No. of tools	ea	3 (4 OPT)	
	Max Drilling Capability	mm	∅ 8	
	Max Tapping Capability		M6	
● Power Driven Tool	No. of tools	ea	3	
	Max Drilling Capability	mm	∅ 3	
	Max Tapping Capability		M3	
	Max Milling Capability	mm	dia 4	
	Motor Power	KW	0,4	
	RPM	Max	8000	
● Main Spindle	Index Angle		0,001 C-axis	
	RPM	Max	10,000 / 15,000 (OPT)	
	Motor Power	KW	1,5 / 2,2	
● Sub Spindle	Index Angle		0,001 C-axis	
	RPM	Max	10,000 / 15,000 (OPT)	
	Motor Power	KW	0,75 / 1,1	
	Max projection length	mm	40	
● Rear working capability	No of Tools	ea	4ea Fixed(power tool (OPT))	
	Max Drill' capability(Fixed)	mm	6	
	Max tap' capability(Fixed)		M5	

※ Specification can be for performance improvement

### Standard Accessories

1. Main Spindle Chuck sleeve
2. Sub Spindle Chuck sleeve
3. Spindle C-axis control(Main & Sub)
4. Spindle clamp unit(Main & Sub)
5. Rotary Guide Bush Unit
6. 5 station Bite Holder
7. 3 position ID tool sleeve holder
8. Power Driven Tools(3 for main)
9. 4 tools rear side machining unit(fixed)
10. Pneumatic Unit
11. Automatic centralized lubrication unit
12. Work light
13. Parts conveyor
14. Sub spindle air purge
15. Sub spindle air blower
16. Rotary guide bush air purge
17. Bar feeder interface

### Optional Accessories

1. Parts ejector
2. Power tool for rear side machining unit
3. Modular power tool for main
4. Modular power tool for sub
5. Expansion tool numbers for Cross drill (5,6,7 ea)
6. Expansion of OD bite(6,7,8 ea)
7. Coolant flow detector
8. Long parts ejector
9. Broken cut off tool detector(Soft type)
10. Bar feeder
11. M-code oil blow
12. High pressure coolant
13. Long parts rear side discharge unit
14. Chip conveyor
15. Chip box
16. Stationary guide bush
17. Auto fire extinguisher
18. Special tooling

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CNC SWISS TURN

# MS12

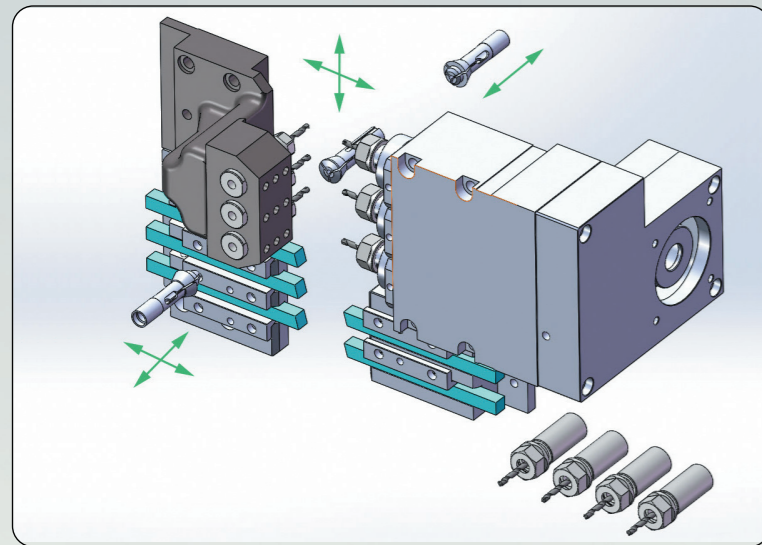
## SMALL HIGH PRECISION



**MECHANICAL COMPLETE**

# MS12

- Max Diameter 12mm Machining
- Expansion No. of tools (incl. cross drill)
- Versatile cross drill construction
- Modular tool spindle for main & sub
- Rear End Machining (Modular Tool, Power Tool)



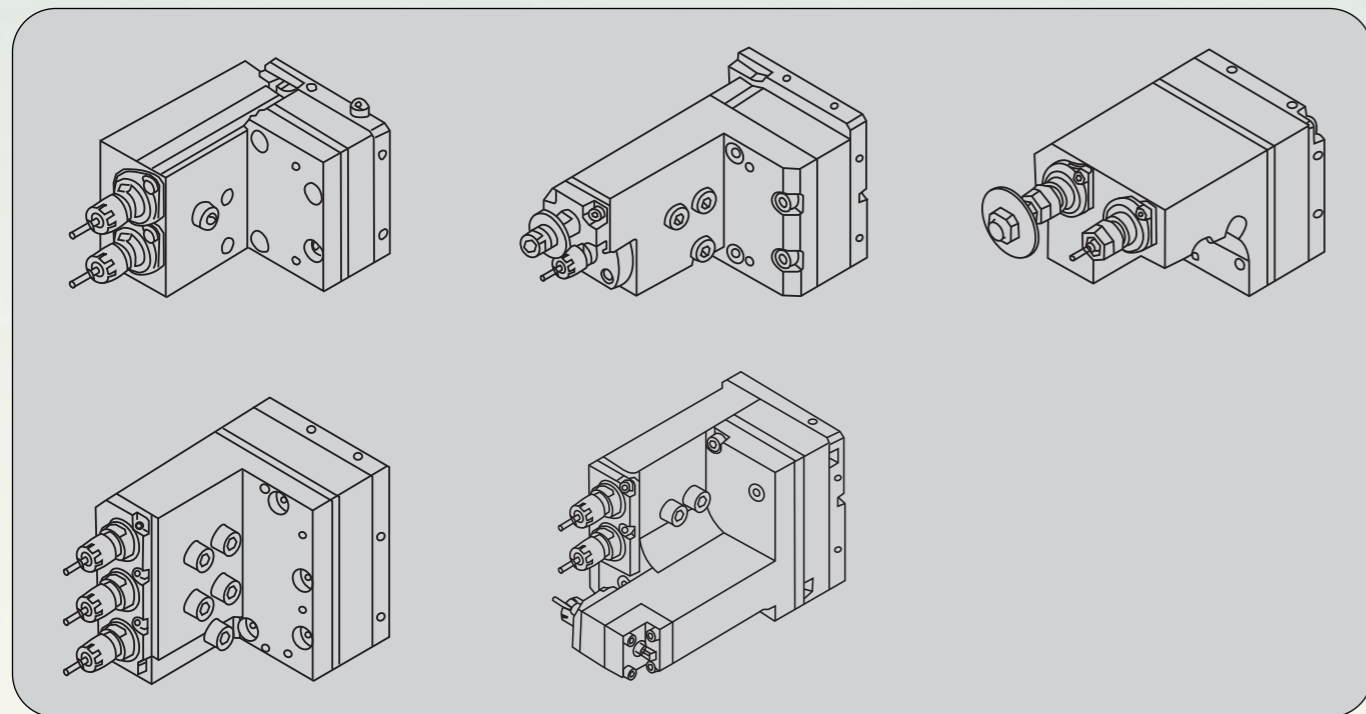
## Front machining

- OD Tool 5 ea (7 OPT)
- ID Tool (sleeve holder) 3 ea
- Cross drill 3 ea (5 OPT)
- Front rotation tool (OPT) 0~1 ea

## Back machining

- Sleeve holder 4 ea

## Variable Cross & Front Drill

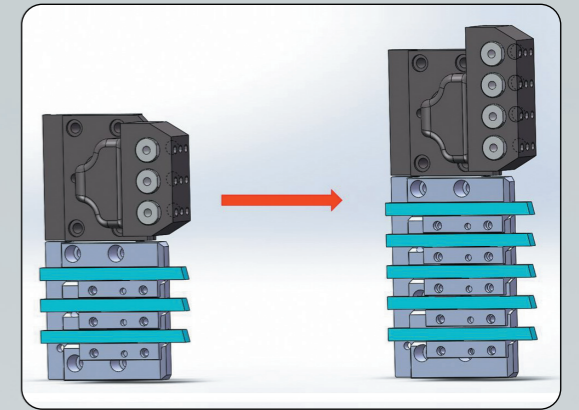


## Expansion Tool Numbers (OPT)

- On Customer Request
- Increase Tool Type & Numbers

## High Speed Spindle

- 15,000 RPM High Speed Spindle (OPT)
- Precision Rotation by BUILT-IN MOTOR
- MAIN, SUB Spindle



## Easy Machine Handling

- COMPACT Machine Size
- High Efficient TOOL LAYOUT
- EASY TOOL SETTING & Adjustment

## High Precision

- Thermal Stable Machine Construction
- Oil Cooling Spindle
- Minimum Travel Distance (Minimum Accumulative Error)
- Optimized Static & Dynamic BALANCING

