



HIGH PRECISION
MACHINES

MATERIAL REMOVAL

Cincinnati Sabre

Vertical Machining Center



High performance vertical machining solution

- Linear guideways feature zero clearance and fully-loaded carrying capacity in all directions
- Heavy-duty cartridge type spindle allows for maximum cutting capabilities
- High speed cross-roller bearing guide way creates smooth and stable movement
- Options and capabilities for diverse requirements
- 40-taper dual contact spindle connection
- Rigid tapping directly attached to high-performance spindle

Maximize your capabilities with the increased speed, power and reliability of renowned Fives Cincinnati equipment.

CINCINNATI SABRE FEATURES

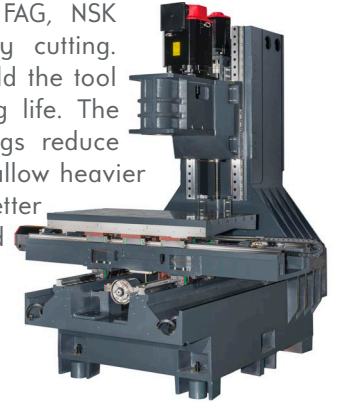
- Rapid feed rate 48/48/48 mm
- Spindle speed 12000 rpm
- Saddle one piece design
- 3 axis absolute motor
- 4/5 axis rotary table available
- Front chip disposal system with surrounding coolant system
- One piece telescope design in rear Y axis

RIGID TAPPING

The encode is directly attached to the high-performance spindle motor. The spindle is then synchronized with the Z axis motion. This synchronization eliminates the need for expensive floating tap holders and prevents thread distortion and thread pullout.

CARTRIDGE TYPE SPINDLE

The heavy-duty spindle utilizes FAG, NSK or SKF bearings to allow heavy cutting. Oversized disk springs used to hold the tool in the spindle are tested for long life. The high retention force of the springs reduce tool movement, improve tool life, allow heavier cutting, reduce chatter & create a better part finish. This spindle is prepared to easily add the CTS option.



CAPABILITIES | CINCINNATI SABRE

		1000	1250	1500	1500+	2000
X-Axis Travel	mm (in)	1016 (40.0)	1270 (50.0)	1524 (60.0)	1524 (60.0)	2032 (80.0)
Y-Axis Travel	mm (in)	635 (25.0)	635 (25.0)	635 (25.0)	800 (31.5)	1016 (40.0)
Z-Axis Travel	mm (in)	610 (24.0)	610 (24.0)	620 (24.4)	719 (28.3)	711 (28.0)
Cutting Feed Rate	ipm	800	800	800	400	400
Spindle Speed	rpm	12000	12000	12000	12000	12000
Spindle Nose		BT-40 or CAT-40	BT-40 or CAT-40	BT-40 or CAT-40	BT-40 or CAT-40	BT-40 or CAT-40
Spindle Motor	hp	25-34 (30min-peak)	25-34 (30min-peak)	25-34 (30min-peak)	35-47 (30min-peak)	35-47 (30min-peak)
Table Size (L x W)	mm (in)	1118x610 (44.0x24.0)	1422x610 (56.0x24.0)	1549x610 (61.0x24.0)	1549x749 (61.0x29.5)	2101x1016 (82.7x40.0)
Tool Capacity	pcs	30	30	30	40	40
Max Tool Diameter	mm (in)	81 (3.2)	81 (3.2)	84 (3.3)	76 (3.0)	76 (3.0)
Max Tool Length	mm (in)	249 (9.8)	249 (9.8)	249 (9.8)	300 (11.8)	300 (11.8)
Max Table Load	kg (lb)	1361 (3000)	1361 (3000)	1361 (3000)	1361 (3000)	1814 (4000)

*All numbers based on Cincinnati Sabre. Technical data subject to change.

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