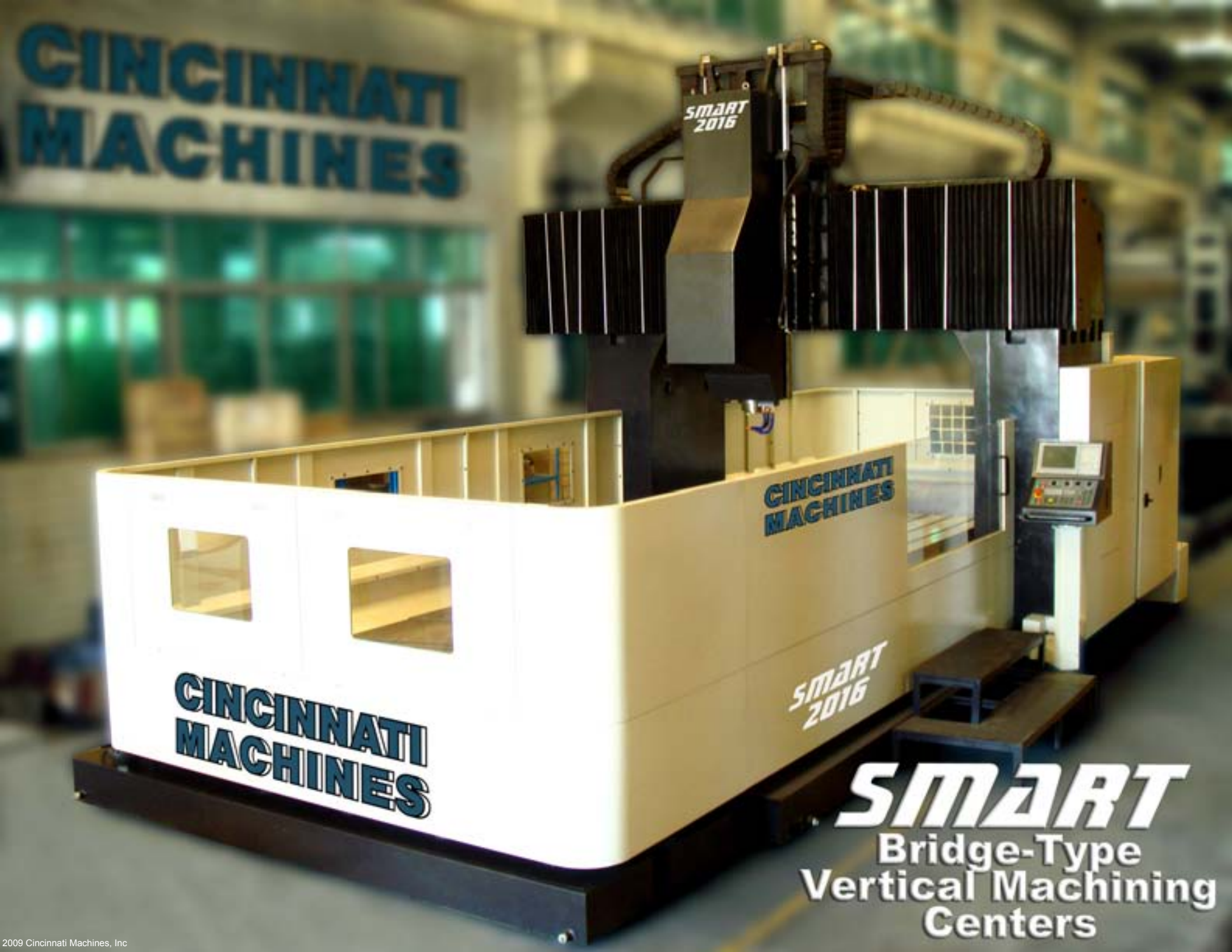
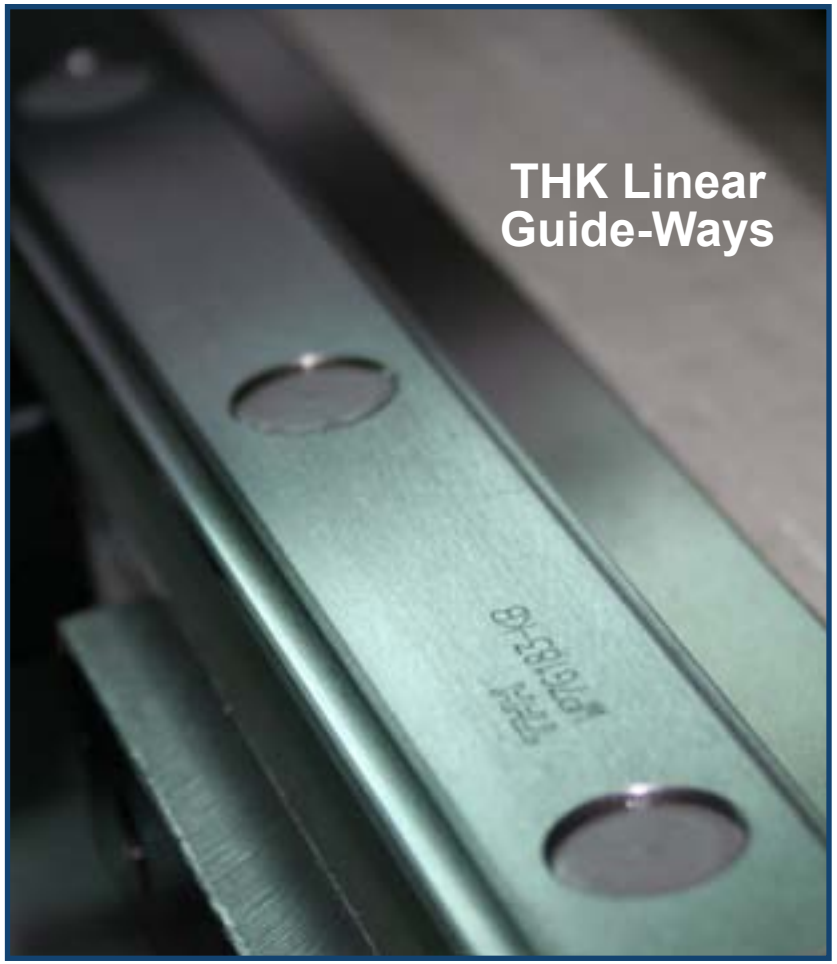
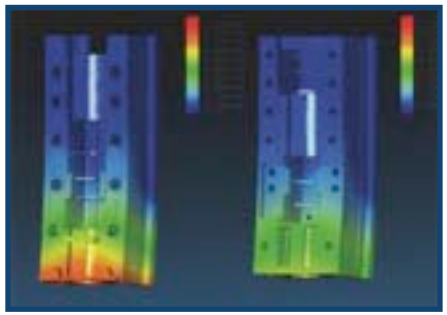


# SMART Bridge-Type Vertical Machining Center Features


All Cincinnati Machines SMART Bridge-Type Vertical Machining Centers feature Technology, Innovation, Simplicity, Rigidity, Economy, and Quality as the leading characteristics of the design and manufacture process. We choose Fanuc CNC as the standard CNC Control system for all SMART Machines. In addition, all critical parts, such as bearings, ballscrews, spindles, and linear guide ways are made either in Taiwan or Japan.

The entire manufacturing process is carried out in accordance with ISO Quality Standards. Then each machine is subjected to a grueling and very thorough set of halfway and final tests. Final machine runoff includes Renishaw Ball Bar and laser positioning tests, along with other checks to assure that each machine is ready and has earned the right to be Cincinnati Machines SMART Machine. Cincinnati Machines then stands behind each and every SMART machine.



Computer Aided Design (CAD)

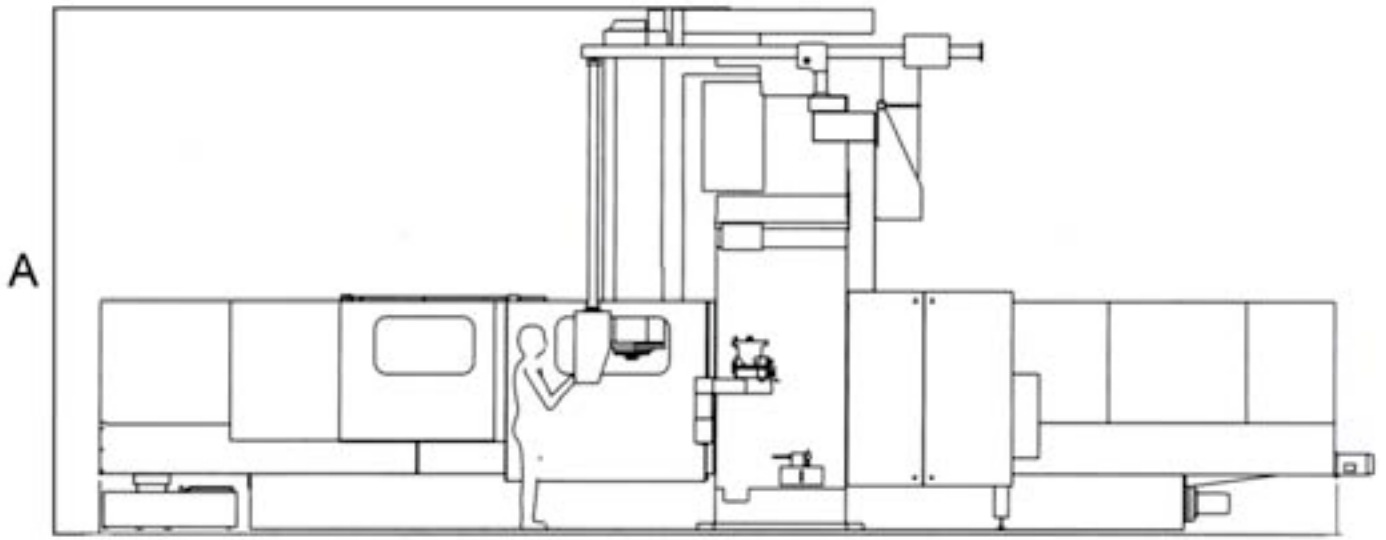
Standard Fanuc CNC

# SMART Bridge-Type Vertical Machining Center Features

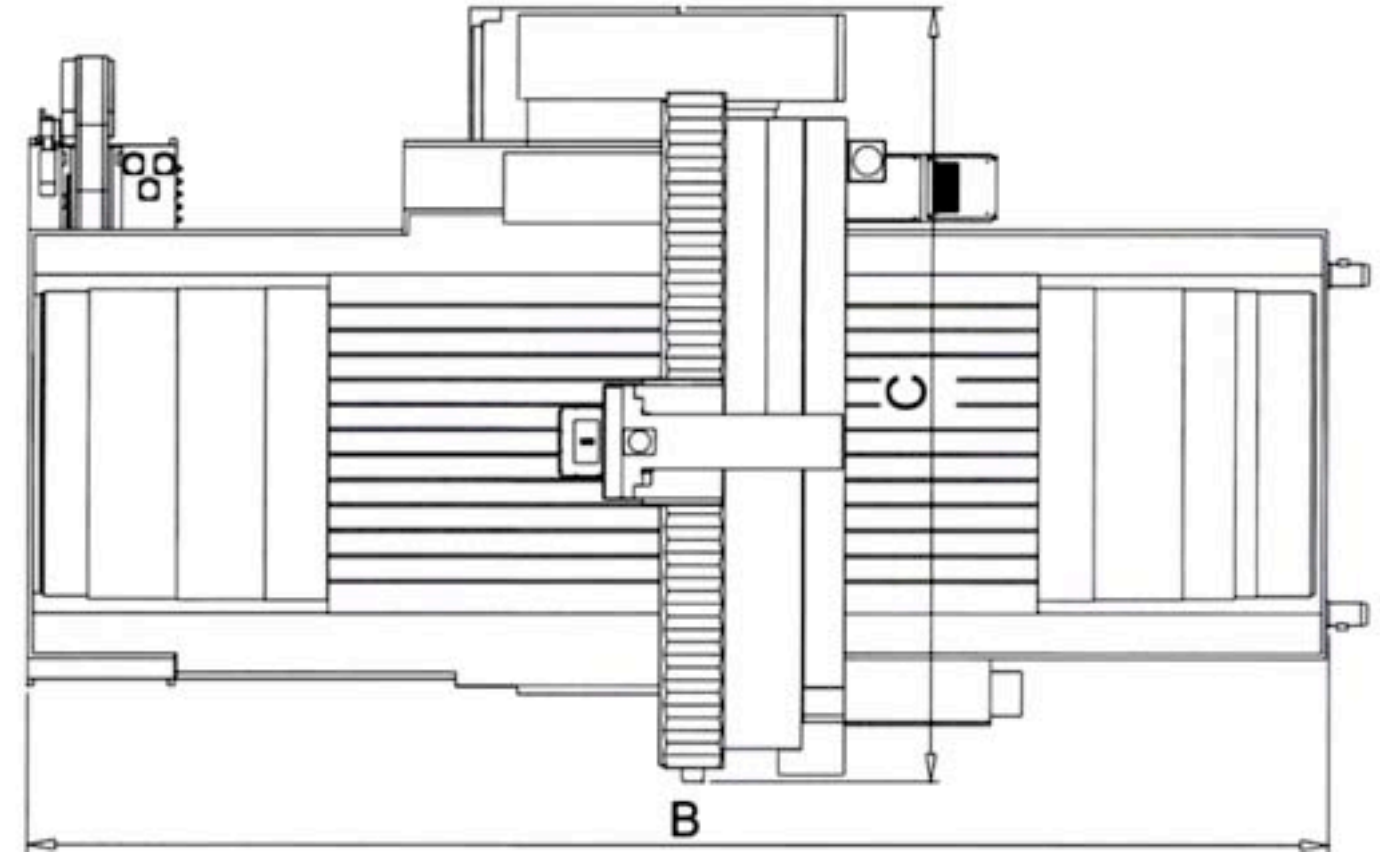
| | |
|---|---|
|  | B & C axis 5 degrees manual adjustment (3500 Rpm) |
|  | C axis Automatic 5 degrees adjustment |
|  | Manual Universal Head |
|  | 45 degree Universal Head |
|  | 90 degree Manual adjustment head |
|  | Extended Head (300 mm / 500 mm) |

The SMART Bridge-Type Vertical Machining Centers offer a wide variety of optional equipment and accessories, including various angular milling heads, spindle speeds, horsepower, and more.


**Z-Axis way system features a combination of Linear Guide-Ways and a Hard Box-Way for maximum rigidity**




| SMART | 2016 | 3025 | 4025 | 5025 | 6530 | 8530 | 10530 |
|---|---|---|---|---|---|---|---|
| H (A) | 2600 mm | 5000 mm | 5000 mm | 5000 mm | 5500 mm | 5500 mm | 5500 mm |
| L (B) | 5400mm | 11500 mm | 12000 mm | 14000 mm | 17000 mm | 21000 mm | 25000 mm |
| W (C) | 4500 mm | 4880 mm | 4880 mm | 4880 mm | 4880 mm | 4880 mm | 4880 mm |



## Specifications

| SMART Series | 2016 | 3025 | 4025 | 5025 | 6530 | 8530 | 10530 |
|---|---|---|---|---|---|---|---|
| X-Axis Travel | 78.7" | 118" | 169" | 197" | 256" | 334" | 423" |
| Y-Axis Travel | 59" | 98.4" | 118" | 98.4" | 130" | 130" | 130" |
| Z-Axis Travel | 31.4" | 39.3" | 39.3" | 39.3" | 39.3" | 39.3" | 39.3" |
| Table Size | 47.2 x 82.6" | 90.5 x 118" | 90.5 x 165" | 90.5 x 197" | 102 x 236" | 102 x 315" | 102 x 393.7" |
| Dist. Between Columns | 61" | 106" | 106" | 106" | 118" | 118" | 118" |
| Spindle to Work Table Dist. (max to min) | 120-870 mm | 260-1260 mm | 260-1260 mm | 260-1260 mm | 530-1530 mm | 530-1530 mm | 530-1530 mm |
| Feedrates (mm/min) | 4.7 x 34.2" | 10.2 x 49.6" | 10.2 x 49.6"* | 10.2 x 49.6" | 20.8 x 60" | 20.8 x 60" | 20.8 x 60" |
| Rapid Travel | 600 ipm | 600 ipm | 600 ipm | 600 ipm | 400 ipm | 400 ipm | 400 ipm |
| Positioning (±) | | | | 0.00019" | | | |
| Repeatability (±) | | | | 0.00011" | | | |
| T-Slot | 7-22 X 150 | 11-28 X 220 | 9-28 X 220 | 11-28 X 220 | 23-28 X 250 | 31-28 X 250 | 29-28 X 250 |
| Spindle Taper | | | | CAT 50 | | | |
| Spindle Speed | 6000 rpm | | | | | | |
| ZF Gear Box | 6000 rpm,Ratio 1:1, 4:1 | | | | | | |
| ZF Gear Box | 6000 rpm,Ratio 1.5:1 | | | | | | |
| ZF Gear Box | 6000 rpm,Ratio 1:1, 4:1 | | | | | | |
| X.Y.Z Ballscrew Size | X:6310 Y:5010 Z:6310 | X:8016 Y:6312 Z:5010 | X:8020 Y:6312 Z:5010 | X:8016 Y:6312 Z:5010 | X:8020 Y:6312 Z:6312 | X:8020 Y:6312 Z:6312 | X:8020 Y:6312 Z:6312 |
| X.Y Linear Guide Way | Roller Type | Roller Type | Roller Type | Roller Type | Roller Type | Roller Type | Roller Type |
| Z Guide Way | Solid Guide Way | | | | | | |
| X/Y/Z-Axis Ratio Spec. | Ratio: X-Axis 2.5:1; Y-Axis 2:1; Z-Axis 2:1 | | | | | | |
| Spindle Motor | 22 kw 30 HP | 22 kw 30 HP | 22 kw 30 HP | 30 kw 40 HP | 30 kw 40 HP | 30 kw 40HP | 30 kw 40 HP |
| X/Y/Z Axis Motor | 40/30/30 n. m. | 40/30/30 n. m. | 40/30/30 n. m. | 60/40/40 n. m. | 60/40/40 n. m. | 60/40/40 n. m. | 60/40/40 n. m. |
| Max. Weight on Table (Tons) | 5 | 8 | 14 | 15 | 26 | 30 | 36 |
| Machine Weight (Tons) | 24 | 45 | 42.3 | 58 | 62 | 70 | 82 |


CINCINNATI MACHINES Cincinnati, Ohio

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