



# MACHINE DATA SHEET

Customer Service #: (570) 546-9663 · To Order Call: (800) 523-4777 · Fax #: (800) 438-5901

## MODEL G0877 10" X 31" ATC ENCLOSED CNC MILL

### Product Dimensions:

Weight ..... 3744 lbs.  
Width (side-to-side) x Depth (front-to-back) x Height ..... 77 x 68 x 87 in.  
Footprint (Length/Width) ..... 117 x 88 in.

### Shipping Dimensions:

Type ..... Wood Crate  
Content ..... Machine  
Weight ..... 4200 lbs.  
Length x Width x Height ..... 83 x 70 x 95 in.  
Must Ship Upright ..... Yes

### Electrical:

Power Requirement ..... 220V, 3-Phase, 60 Hz  
Full-Load Current Rating ..... 14.2A  
Minimum Circuit Size ..... 20A  
Connection Type ..... Permanent (Hardwire to Shutoff Switch)  
Power Cord Included ..... Yes  
Power Cord Length ..... 6-1/2 ft.  
Power Cord Gauge ..... 12 AWG

### Motor:

#### Spindle

Horsepower ..... 3 HP  
Phase ..... 3-Phase  
Amps ..... 6.4A  
Speed ..... 10,000 RPM  
Type ..... Servo  
Power Transfer ..... Belt Drive  
Bearings ..... Shielded & Permanently Lubricated

#### X-Axis

Horsepower ..... 1 HP  
Phase ..... 3-Phase  
Amps ..... 2.1A  
Speed ..... 4,000 RPM  
Type ..... Servo  
Power Transfer ..... Direct Drive  
Bearings ..... Sealed & Permanently Lubricated

#### Y-Axis

Horsepower ..... 1 HP  
Phase ..... 3-Phase  
Amps ..... 2.1A  
Speed ..... 4,000 RPM  
Type ..... Servo  
Power Transfer ..... Direct Drive  
Bearings ..... Sealed & Permanently Lubricated

### Z-Axis

Horsepower .....	1.3 HP
Phase .....	3-Phase
Amps .....	3A
Speed .....	3,000 RPM
Type.....	Servo
Power Transfer.....	Direct Drive
Bearings .....	Sealed & Permanently Lubricated

### Tool Changer

Horsepower .....	37 Watts
Phase .....	3-Phase
Amps .....	0.27A
Speed .....	1300 RPM
Type.....	Servo
Power Transfer.....	Gearbox
Bearings .....	Sealed & Permanently Lubricated

### Coolant Pump

Horsepower .....	0.6 HP
Phase .....	3-Phase
Amps .....	0.8A
Speed .....	2900 RPM
Type.....	TEFC Induction
Power Transfer.....	Direct Drive
Bearings .....	Shielded & Permanently Lubricated

### Main Specifications:

#### Operation Information

Max Distance Spindle to Column .....	12-1/2 in.
Max Distance Spindle to Table .....	18-5/8 in.
Longitudinal Table Travel (X-Axis) .....	15-5/8 in.
Cross Table Travel (Y-Axis) .....	9 in.
Vertical Head Travel (Z-Axis) .....	15-5/8 in.
Position Resolution.....	± 0.0008 in. (0.020 mm)
Repeat Position Resolution .....	± 0.0005 in. (0.013 mm)

#### Tool Changer Info

Type.....	Turntable Style
Capacity.....	10 Tools
Maximum Tool Weight.....	13 lbs.
Maximum Tool Diameter with Adjacent Tool .....	4 in.
Tool Change Average Time .....	6 Seconds

#### Table Info

Table Length .....	31-1/2 in.
Table Width .....	10-1/4 in.
Table Thickness .....	2-3/4 in.
Table Height (from Floor/Base).....	37-1/2 in.
Table Weight Capacity .....	330 lbs.
Number of T-Slots .....	5
T-Slot Size.....	5/8 in.
T-Slots Centers .....	2 in.
X-Axis Rapid Feed Rate.....	400 IPM
Y-Axis Rapid Feed Rate.....	400 IPM
Z-Axis Rapid Feed Rate.....	400 IPM

**Spindle Info**

Spindle Taper ..... BT30  
Pull Stud ..... BT30 x 45°  
Spindle Speed Range ..... 50 - 10,000 RPM  
Spindle Bearings (Size & Type) ..... Angular Contact Bearings

**Fluid Capacities**

Coolant Capacity ..... 42 Gallons

**Construction**

Spindle Housing/Quill ..... Steel  
Table ..... Cast Iron  
Head ..... Cast Iron  
Column/Base ..... Cast Iron  
Base ..... Cast Iron  
Stand ..... Cast Iron  
Paint Type/Finish ..... Enamel

**Other Specifications:**

Country of Origin ..... China  
Warranty ..... 1 Year  
Approximate Assembly & Setup Time ..... 2 Hours  
Serial Number Location ..... Machine ID Label  
ISO 9001 Factory ..... Yes

**Features:**

Siemens Sinumerk® CNC Controller  
Servo Motors with Ball Screws on All Axes  
Built-In Pendant/Hand Controller  
3 HP Spindle Motor  
50–10,000 RPM Spindle Speeds  
Hands-Free Tool Changes with 10-Position Automatic Tool Changer (ATC)  
Rapid Table Speeds of Up to 400 in./min.  
Heavy-Duty BT30 Spindle