

COMPACT YET POWERFUL

# PCM 220

## PHILLIPS COMPACT MILL



COMPACT VMC FOR  
SMALL PART MACHINING

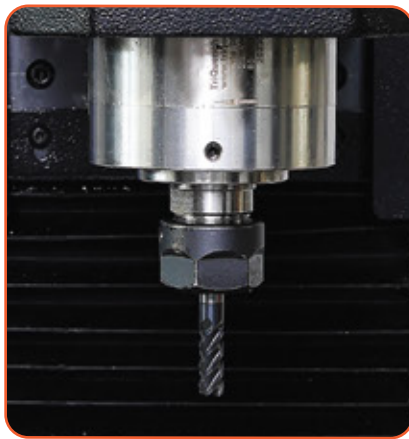
Experience cutting-edge  
manufacturing capabilities

## Standard Features

- Full VMC Capabilities
- Full Enclosure
- Industry-standard Mitsubishi M80B Control
- 10.4" Screen
- Built-In USB Port
- Ethernet Interface
- Remote monitoring
- System Memory 256MB
- LED Work Light
- High-Impact Safety Glass
- High-Voltage Isolated Transformer
- Coolant Pump Kit
- Proudly Made in India



## Key Highlights



### High RPM Spindle

PCM 220 is equipped with a high-rpm spindle that can cut lightweight materials.



### Easy Upgrade

Dual-axis rotary table offers high-speed, accurate performance for 3+2 and full 5-axis machining of small parts.



### Control System

The PCM 220 is a full-featured, Mitsubishi / Fanuc control that utilizes industry-standard G-code programming and is packed with advanced features that are used by manufacturers everywhere.



### Operator Safety

Completely enclosed, featuring steel guards and shatter-resistant, multi-layer windows, ensuring operators' protection.



### Enhanced Functionality

System memory 256 MB & Expandable memory upto 8 GB, USB Port, and Remote Monitoring for User-Friendly Operation



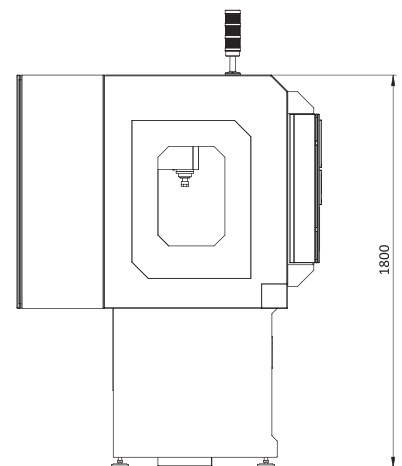
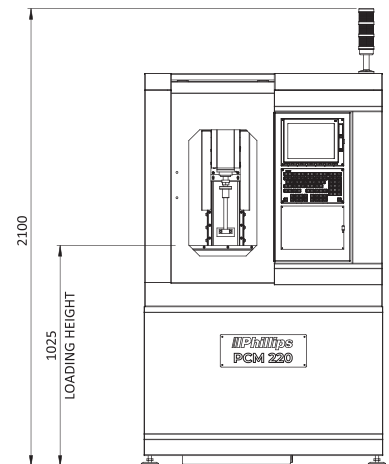
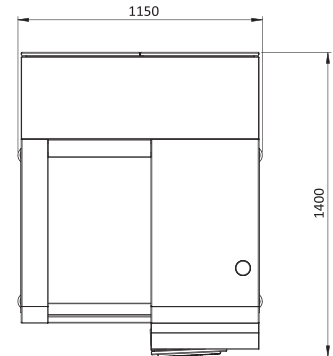
### Warranty

The PCM 220 is accompanied by a standard one-year warranty making it a perfect machine for every shop-floor

# PCM 220 - SPECIFICATIONS

DESCRIPTION	UNIT	
	Standard	Optional
<b>TRAVELS</b>	<b>METRIC</b>	
X Axis	220 mm	
Y Axis	120 mm	
Z Axis	200 mm	
Spindle Nose to Table (~ max)	230 mm	
Spindle Nose to Table (~ min)	30 mm	
<b>SPINDLE</b>	<b>METRIC</b>	4 kW ISO 20
Max Rating	2.2 kW ER20	10,000/24,000/
Max Speed	10,000 rpm std (24,000 rpm Optional)	40,000 rpm 1.6 Nm
Max Torque	2.39 Nm	Integrated
Drive System	Integrated	ISO 20
Taper	ER20	GREASE
Bearing Lubrication	GREASE	10 mm
Max. Tool Dia.	12 mm	Water Cooled
Cooling	Water Cooled	
<b>TABLE</b>	<b>METRIC</b>	
Length	300 mm	
Width	165 mm	
T-Slot Width	12 mm	
T-Slot Center Distance	45 mm	
Number of Std T-Slots	3	
Max Weight on Table (evenly distributed)	30 kg	
<b>FEEDRATES</b>	<b>METRIC</b>	
Rapids on X	8 m/min	
Rapids on Y	8 m/min	
Rapids on Z	8 m/min	
<b>CONTROLLER</b>	Mitsubishi M80B	Mitsubishi M80A, FANUC 0IMF PLUS
<b>GENERAL</b>	<b>METRIC</b>	
Instructions	ISO G Code	
Coolant Capacity	18 L	
<b>AIR REQUIREMENTS</b>	<b>METRIC</b>	
Air Required	28 L/min @ 4.8 bar	
Inline Air Hose	10 mm	
Coupler (Air)	10 mm	
Air Pressure Min	5.5 bar	
<b>DIMENSIONS - SHIPPING</b>	<b>METRIC</b>	
Domestic Pallet	170 cm x 165 cm x 220 cm	
Export Pallet	170 cm x 165 cm x 220 cm	
Weight	600 Kg	
<b>ELECTRICAL SPECIFICATION</b>	<b>METRIC</b>	
Input AC Voltage (3 Phase)	415 VAC	
Full Load Amps (3 Phase)	16 A	
Total Load	9 KVA	
Input AC Voltage (3 Phase) - Low	200 VAC	
Full Load Amps (3 Phase) - Low	8 AMP	
<b>TOOL CHANGER</b>	<b>METRIC</b>	
Type	Manual	Carousel*
Capacity		8
Max Tool Weight		1.5 kg
Tool-to-Tool (avg)		24 sec
<b>UPGRADES</b>	<b>METRIC</b>	
<b>4TH AXIS</b>	<b>METRIC</b>	
Platter Dia.	80mm	
No. of T-Slot	4 @ 90°	
Centre Height	65mm	
<b>5TH AXIS</b>	<b>METRIC</b>	
Platter Dia.	80mm	
No. of T-Slot	4 @ 90°	
Platter Face Height	104mm	
Tilting Angle	±90°	

\*Only available when you select ISO 20 taper option



## Options



### Spindle

The PCM 220 Offers the following Spindle options:

ER20

24,000 rpm

ISO 20

10,000 rpm

24,000 rpm

40,000 rpm



### 4th & 5th Axis Capability

Operating a 5-axis machine reduces setups, accelerates cycle times, decreases scrap, maximizes spindle uptime, and surprisingly, reduces the necessity for highly specialized personnel, expanding the capabilities of your shop



### Auto Tool Changer ISO 20

Utilizing automatic changers enhances productivity while minimizing downtime. This system enables tool storage and automatic return to the machine tool post-operation, enhancing machine tool flexibility

**Phillips**  
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