

Variable bed lengths and milling head options offer enhanced versatility.

Quality Machine Design with Power-Packed Performance

- Precision machined dovetail ways and adjustable gibs provide smooth accurate travel.
- All gears and drives are permanently lubricated and sealed to allow operation in any position.

Powerful

- Hydraulic, pneumatic, and electric motors are available to provide power for milling spindle.
- Feed options include manual, electric, and pneumatic.
- Optional HSK spindle.

Versatile

- Two different milling head options are available; the 3/4-inch Weldon shank spindle, and the flexible HSK 40A spindle.
- 120V and 230V electric feed options are available in addition to manual feed for fine adjustment.
- The electric feed option provides infinitely variable rates from 0 to 20 IPM, with push-button rapid traverse.
- Forward, neutral and reverse modes are controlled by a simple shift lever.

Rigid and Durable

- Compact yet rigid design for hard to reach and limited clearance applications.



Flexible

- Cross slide allows mounting of milling spindle on either side of the bed.
- An extended ram may be used in conjunction with the more powerful and versatile HSK spindle.
- The optional HSK milling head swivel plate accessory allows 360° range of spindle angles
- Optional sub-plates are available for extra bed rigidity and installation versatility.

Quick and Easy Setup

- The PM4200 3-axis portable milling machine provides precise and versatile on the job milling capabilities. It is designed to be attached either to the work piece or to a support structure beside it.
- Beds are available in 20, 49 and 78 inch (508, 1244.6 and 1981.2 mm) travel.

Applications Include:

- The PM4200 is commonly used for milling large cumbersome parts.
- Many customers use the PM4200 machines when welding up and re-machining worn parts on production machinery like stamping presses.
- Long motor mount slots are easily machined, often without dismantling since the mill can be mounted right on the workpiece.
- Motor mounts and pump bases are easily machined, especially in tight locations.

SPECIFICATIONS

	US	Metric
Bed Length	29, 58 or 87 inches	736.6, 1473.2 or 2209.8 mm
Bed Travel (X Travel)	20, 49 or 78 inches	508.0, 1244.6 or 1981.2 mm
Cross Slide Travel (Y-Axis)	8 inches (Weldon)	203.2 mm
	12 inches (HSK)	304.8 mm
Spindle Reach from edge of bed	8.85 inches (Weldon)	224.8 mm
	12 inches (HSK)	304.8 mm
Tool Head Vertical Travel	3 inches (Weldon)	76.2 mm
	4 inches (HSK)	101.6 mm
No Load Spindle Speed		
Weldon Electric	230 - 525 RPM	
Weldon Hydraulic	282 - 696 RPM	
Weldon Pneumatic	Up to 510 RPM	
HSK Electric	Up to 800 RPM	
HSK Hydraulic	369 - 1006 RPM	
HSK Pneumatic	Up to 1100 RPM	
Spindle Size	0.75 inch (Weldon)	19.1 mm
	40A (HSK)	
Milling Head Gearbox Ratio	2.15:1 (Weldon Spindle)	
	6.25:1 (HSK Spindle) Electric	
	1:1 (HSK Spindle) Hydraulic	
	1:1 (HSK Spindle) Pneumatic	

SPINDLE POWER

3/4" Weldon Shank

Electric 20V or 230V	1 HP	0.75 kW
Hydraulic Motor Assemblies	4.8 HP	3.6 kW
	65263 (0.79 in ³ (13 cm ³) J SERIES)	124 - 630 RPM
	65094 (1.21 in ³ (19.8 cm ³) J SERIES)	85 - 425 RPM
	65095 (1.93 in ³ (31.6 cm ³) J SERIES)	50 - 253 RPM
Pneumatic *	1.55 HP	1.15 kW

HSK Spindle

Electric 120V	2.37 HP (1.8 kW) 120V 15A (motor speed 50000 RPM)	
Electric 230V	2.37 HP (1.8 kW) 230V 7.5A (motor speed 50000 RPM)	
Hydraulic Motor Assemblies	4.8 HP	3.6 kW
	65263 (0.79 in ³ (13 cm ³) J SERIES)	124 - 630 RPM
	65094 (1.21 in ³ (19.8 cm ³) J SERIES)	85 - 425 RPM
	65095 (1.93 in ³ (31.6 cm ³) J SERIES)	50 - 253 RPM
Pneumatic Motor Assemblies		
68455 Pneumatic Right Angle *	1.55 HP	1.15 kW
68584 Pneumatic Direct Drive *	1.35 HP	1.01 kW
* Air motor requires 32 FT ³ /min (0.9m ³ /min) at	90 PSI	550 kPa

All dimensions should be considered reference. Contact your CLIMAX Representative for precision dimensions. Specifications are subject to change without notice. There are no systems or components on this machine that are capable of producing hazardous EMC, UV or other radiation hazards. The machine does not use lasers nor does it create hazardous materials such as gasses or dust.

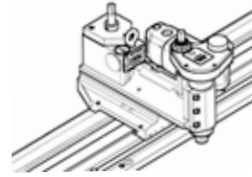
Available Standard Options

Bed Lengths	29, 58, or 87 inches (736.6, 1473.2 or 2209.8 mm)
Rams	Weldon Top Slide HSK Extended Ram Blank Tool Post
Spindles	Weldon 3/4-inch Spindle HSK 40A Spindle

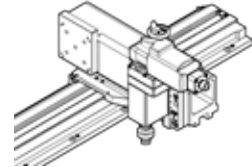
Spindle drive available in electric, hydraulic and pneumatic versions.

Basic configuration includes:

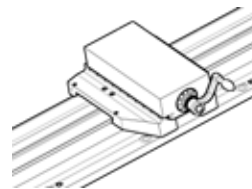
- Bed
- Top slide (inch or metric)
- Gearbox
- Spindle & quill assembly (inch or metric)
- Vertical adjustment leadscrew (inch or metric)
- Cross slide
- Leadscrew
- Feed assembly (manual, pneumatic, or electric)
- Spindle motor (electric, pneumatic, or hydraulic)



Weldon Top Slide



HSK Extended Ram



Blank Tool Post

Dimensions

Overall Length		US	Metric	
		bed length + 8.8 inches	bed length + 223.5 mm	
Overall Width	Weldon	13.22 - 20.22 inches	335.8 - 513.6 mm	
	HSK	28.5 inches	723.9 mm	
Overall Height with electric motor				
		Weldon	13.6 - 16.6 inches	345.4 - 421.6 mm
		HSK	17.6 - 21.6 inches	447.0 - 548.6 mm

Weight (without motor)

Bed lengths		US	Metric
29 inch (736.6 mm)	Weldon	332 lb	151 kg
29 inch (736.6 mm)	HSK 40A	381 lb	173 kg
58 inch (1573.2 mm)	Weldon	544 lb	248 kg
58 inch (1573.2 mm)	HSK 40A	593 lb	270 kg
87 inch (2209.8 mm)	Weldon	710 lb	323 kg
87 inch (2209.8 mm)	HSK 40A	759 lb	345 kg

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TOOL CONFIGURATIONS

Configure your PM4200:

- 1 Select a Base Unit
 - 2 Select Shipping Containers
 - 3 Select Main Bed Feed Control
 - 4 Select a Topslide, Spindle Drive or Extended Ram Assembly
 - 5 Select HSK Milling Head Assembly
 - 6 Select Tooling
 - 7 Select Collets
 - 8 Select Hydraulic Motor for Spindle
 - 9 Select HPU
 - 10 Select Hose, Pendant, and Cable Assemblies (2-Axis)
- To generate the correct part number for the machine, simply circle the part number needed in each step, and contact your CLIMAX representative.

1 Base Unit (w/o Leadscrew)

- (Includes bed assembly, tool kit, and operating manual)
- 20 Inches (508 mm) of travel, 29 inch (736.6 mm) bed **65206**
 - 49 Inches (1244.6 mm) of travel, 58 inch (1473.2 mm) bed **65207**
 - 78 Inches (1981.2 mm) of travel, 87 inch (2209.8 mm) bed **65208**

2 Shipping Containers

- Wood Crate for 20 Inch (508.0 mm) Travel Bed **65084**
- Metal Container for 20 Inch (508.0 mm) Travel Bed **65403**
- Wood Crate for 49 Inch (1244.6 mm) Travel Bed **65085**
- Metal Container for 49 Inch (1244.6 mm) Travel Bed **65404**
- Wood Crate for 78 Inch (1981.2 mm) Travel Bed **69211**
- Metal Container for 78 Inch (1981.2 mm) Travel Bed **65405**

3 Main Bed Feed Control

- 20 Inch (508.0 mm) Travel Bed w/Leadscrew**
- 120V Feed Assembly **72057**
 - 230V Feed Assembly **65359**
 - Manual Feed Assembly **65305**
 - Pneumatic Feed Assembly **65309**
- 49 Inch (1244.6 mm) Travel Bed w/Leadscrew**
- 120V Feed Assembly **72058**
 - 230V Feed Assembly **65360**
 - Manual Feed Assembly **65306**
 - Pneumatic Feed Assembly **65310**
- 78 Inch (1981.2 mm) Travel Bed w/Leadscrew**
- 120V Feed Assembly **72059**
 - 230V Feed Assembly **65361**
 - Manual Feed Assembly **65307**
 - Pneumatic Feed Assembly **65311**

4 Topslide, Spindle Drive or Extended Ram Assembly

- Electric**
- 120V Weldon Shank Topslide Assembly - INCH **65217**
 - 120V Weldon Shank Topslide Assembly - METRIC **65218**
 - 230V Weldon Shank Topslide Assembly - INCH **65219**
 - 230V Weldon Shank Topslide Assembly - METRIC **65220**

- Hydraulic**
- Weldon Shank Topslide Assembly - INCH **65221**
 - Weldon Shank Topslide Assembly - METRIC **65222**

- Pneumatic**
- Weldon Shank Topslide Assembly - INCH **65223**
 - Weldon Shank Topslide Assembly - METRIC **65224**

- Extended RAM Assembly (Only for HSK Milling Head)**
- Extended RAM Assembly 12 inch (304.8 mm) Travel **71970**

- Tool Post Blank**
- Tool Post Blank Slide Assembly **38167**

5 HSK Milling Head Assembly

- (Only for Extended RAM Assembly)
- 120V Electric HSK 40A Milling Head Assembly (w/motor) **64667**

- 230V Electric HSK 40A Milling Head Assembly (w/motor) **66342**
- Hydraulic HSK 40A Milling Head Assembly **65262**
- Pneumatic HSK 40A Milling Head Assembly - Right Angle **68455**
- Pneumatic HSK 40A Milling Head Assembly - Direct Drive **68584**

6 Tooling

- HSK Taper**
- HSK 40A Taper 3 Inch (76.2 mm) Face Mill w/inserts **64984**
 - HSK 40A Taper Collet Holder ER-32, 0.08 - 0.81 Inch (2.0 - 20.6 mm) **64985**
 - Square Carbide Inserts 0.528 inch **47229**

Weldon Shank Inch

- Weldon Shank Face Mill Kit 2 x ¾ Inch **39634**
- Weldon Shank Fly Cutter 2-½ inch Dia. Head x ¾ Inch (Tooling not included) **20713**

- Carbide Inserts *SEHW1204AFN KC725M* (This will only work with PN 39634) **39631**

Weldon Shank Metric

- Weldon Shank Face Mill 2 X 20 mm **43985**
- Weldon Shank Fly Cutter 2-¼ Inch (57.2 mm) Dia. Head x 20 mm (Tooling not included) **31625**

- Carbide Inserts *SEKT1404AEENGP2 KC725M* **66356**

7 Collets (For HSK only)

- Collet ER-32, ¾ - INCH **64986**
- Collet ER-32, 20 mm - METRIC **66344**
- Collet Set ER-32, ¼, ⅜, ½ Inch Increments - INCH **66345**
- Collet Set ER-32, 3 - 20 mm, 1 mm Increments - METRIC **66346**

8 Hydraulic Motor for Spindle

Milling Head Assembly	Motor Displacement		Max Spindle Speed		Hydraulic Motor PN	
	in ³	cm ³	@ 50 Hz Mains Power	@ 60 Hz Mains Power	60 Series	ISO 16028
HSK	121	198			65094	79701
	193	316			65095	79699
	3	492			65096	83936
Weldon	0.79	129			65263	79702
	121	198			65094	79701
	193	316			65095	79669

Expand the capabilities of your PM4200 with the following Accessories:

Hydraulic Power Unit - 4 Function, 10 HP HPU

4 Function, 208 - 230 Volts				
Cordset/hose length		Quick Connect Style		P/N
Feet	Meters	60 Series QD	ISO 16028 CE	
20	6	✓		55285
50	15	✓		51517
100	30	✓		94009
20	6		✓	93894
50	15		✓	94010
100	30		✓	94011

4 Function, 380 - 415 Volts

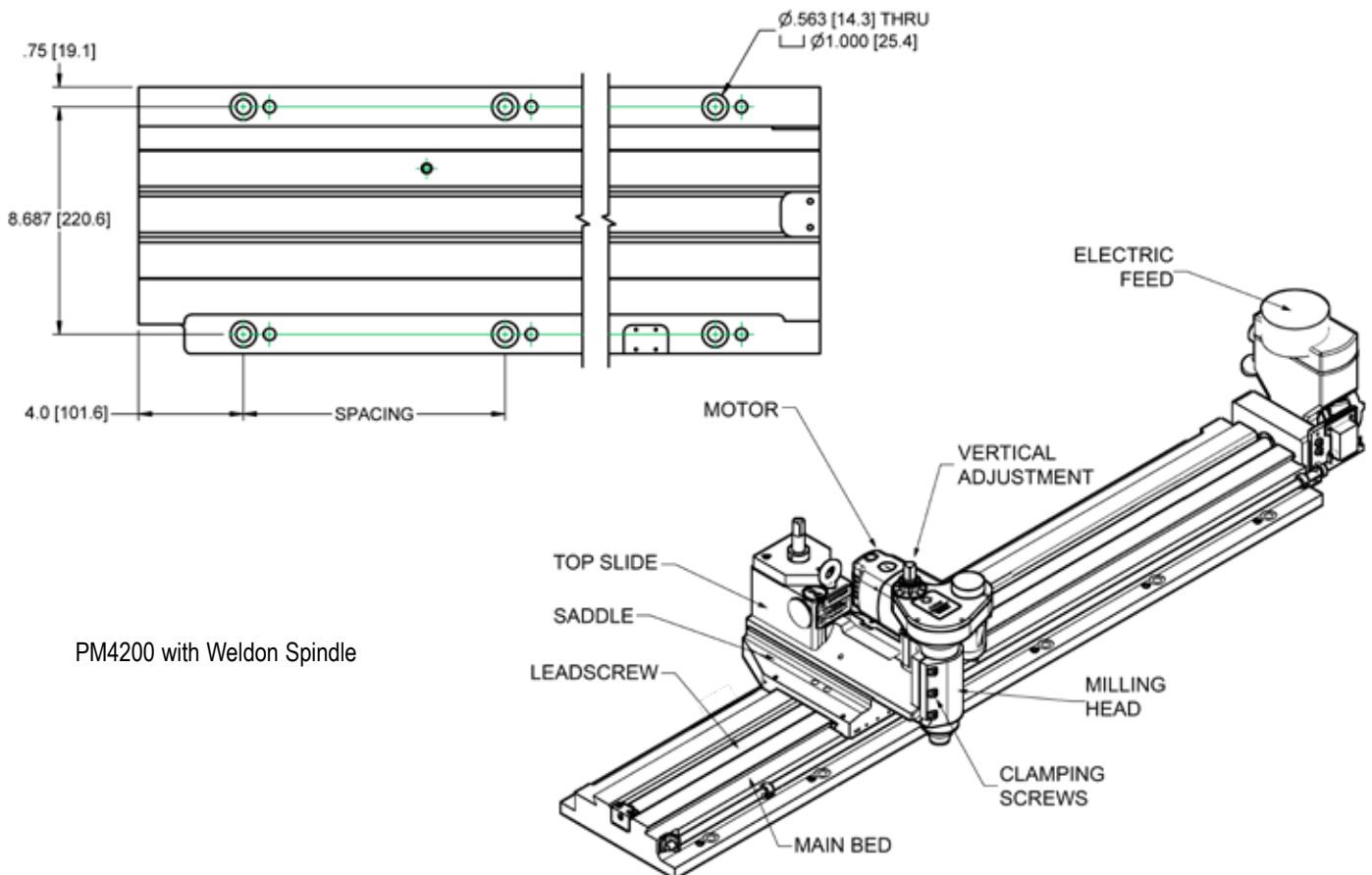
OPERATIONAL DIMENSIONS

Cordset/hose length		Quick Connect Style		P/N
Feet	Meters	60 Series QD	ISO 16028 CE	
20	6	✓		55279
50	15	✓		55856
100	30	✓		80909
20	6		✓	93927
50	15		✓	94012
100	30		✓	94013
4 Function, 460 Volts				
Cordset/hose length		Quick Connect Style		P/N
Feet	Meters	60 Series QD	ISO 16028 CE	
20	6	✓		51130
50	15	✓		55645
100	30	✓		56658
20	6		✓	94015
50	15		✓	94016
100	30		✓	94017
4 Function, 575 Volts				

Cordset/hose length		Quick Connect Style		P/N
Feet	Meters	60 Series QD	ISO 16028 CE	
20	6	✓		51133
50	15	✓		51138
100	30	✓		81396
20	6		✓	94018
50	15		✓	94019
100	30		✓	94020

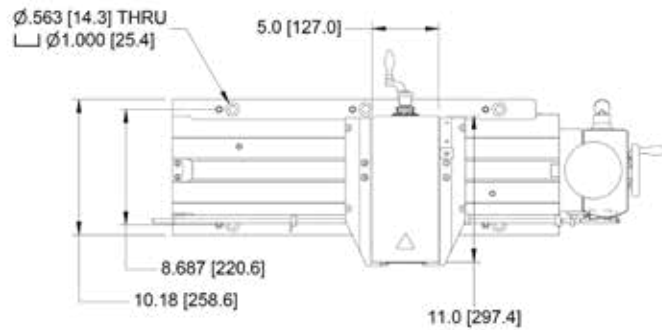
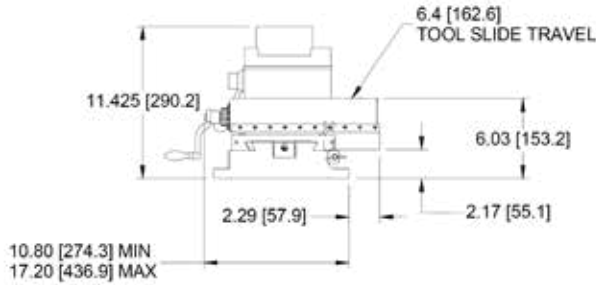
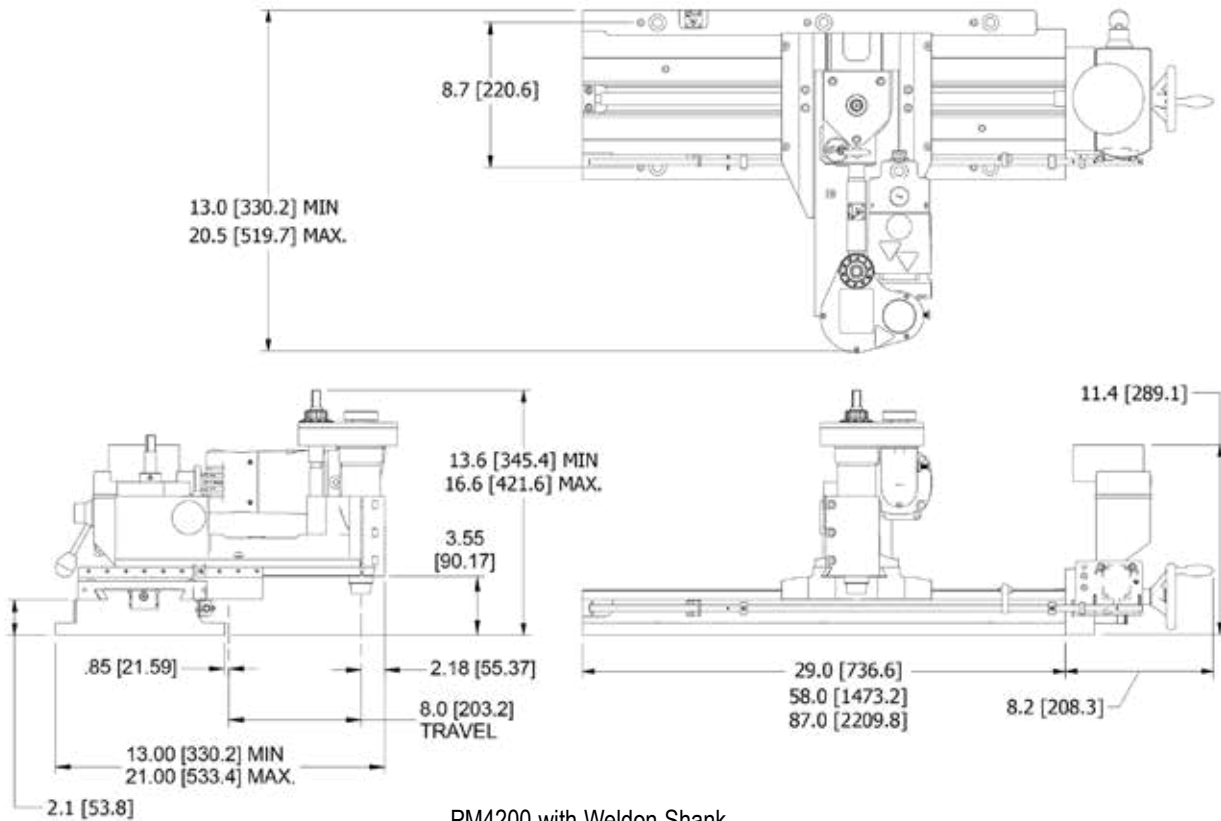
20 inches (508 mm) of travel, 29 inch (736.6 mm) Bed Sub-Plates **39659**
 49 inches (1244.6 mm) of travel, 58 inch (1473.2 mm) Bed Sub-Plates **39795**
 78 inches (1981.2 mm) of travel, 87 inch (2209.8 mm) Bed Sub-Plates **39793**
 Milling Head Swivel Plate Assembly (for HSK only) **66217**

Model	Bed Length		Mounting holes	Spacing	
	Inch	MM		Inch	MM
PM4200-20	29	736.6	6	10	254
PM4200-49	58	1473.2	12	10	254
PM4200-78	87	2209.8	18	10	254



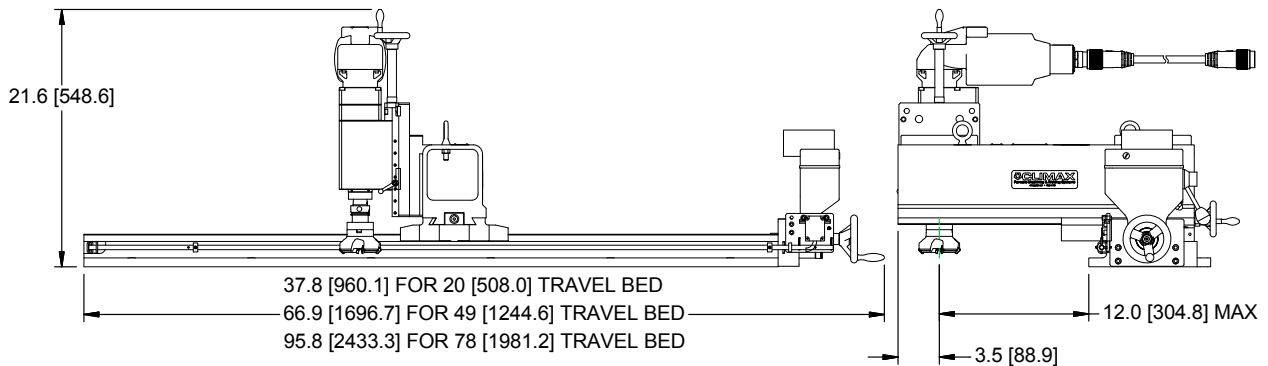
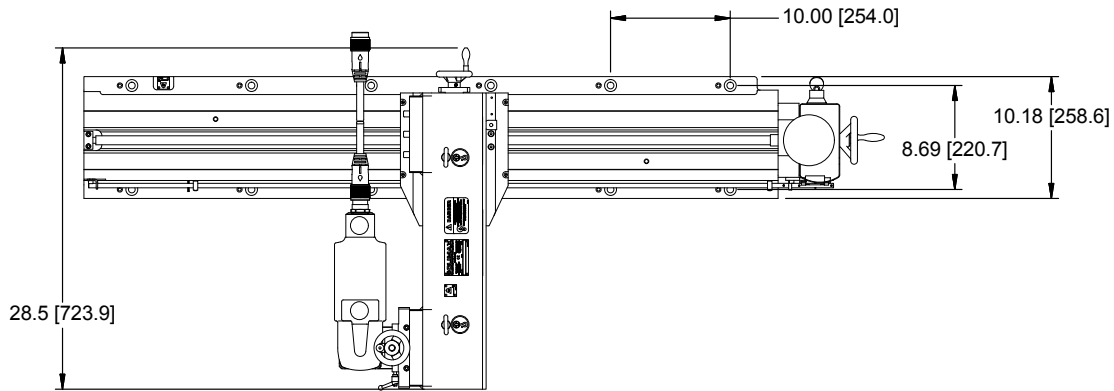
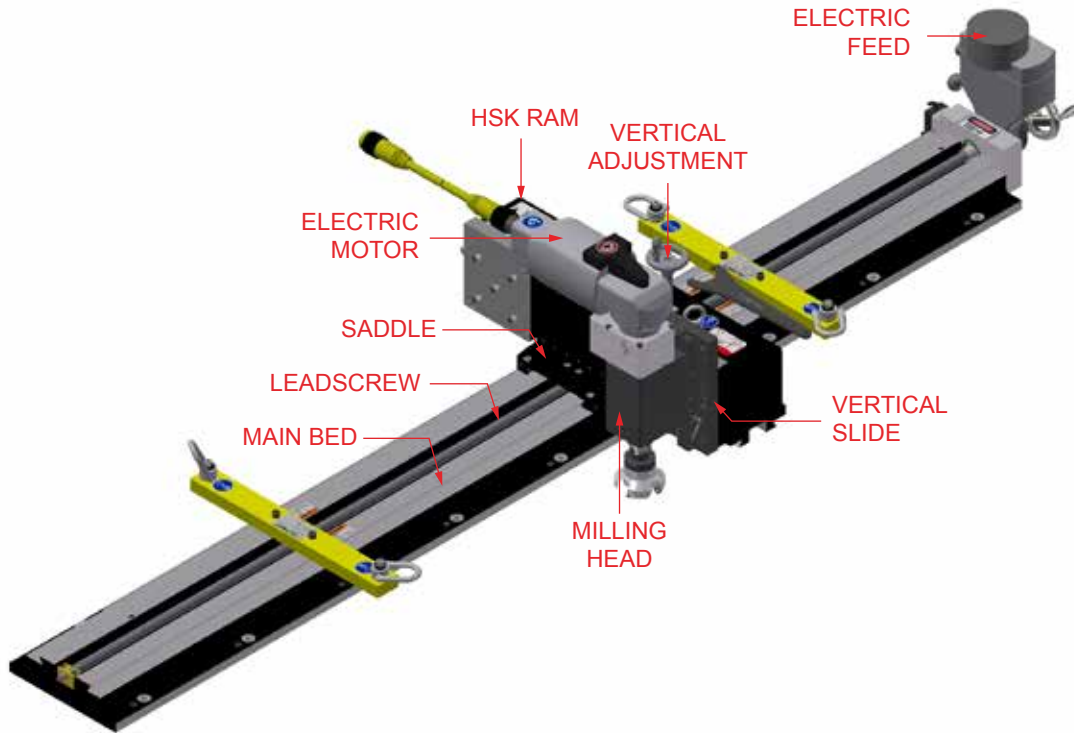
PM4200 with Weldon Spindle

OPERATIONAL DIMENSIONS



Blank Tool Post

OPERATIONAL DIMENSIONS



PM4200 W/ 12 INCH (304.8 MM) TRAVEL RAM FOR HSK SPINDLE

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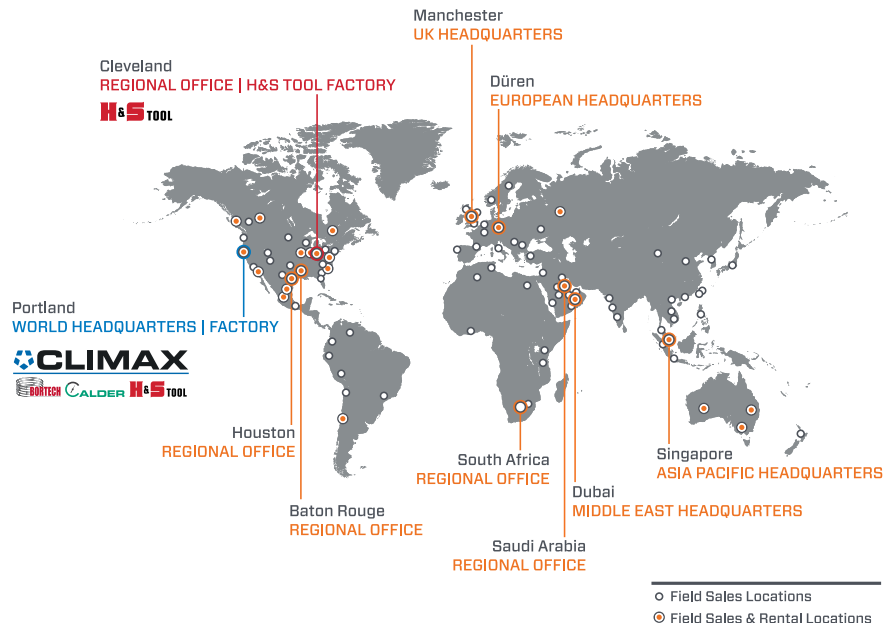
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