

## 3-Axis Linear and Gantry Milling

The CLIMAX LM6200 Linear/Gantry Milling Machine revolutionizes both the capabilities and functionality of portable mills. Four main features makes this one of the best milling machines on the market today:

1. Extremely rigid, modular bed design.
2. Powerful, precise machining.
3. Innovative configuration options allow setup for both Linear AND Gantry Milling in one machine.
4. Reduced Friction Rail Technology.

### Rigid, Modular Design

- Unique modular bed design allows shorter bed sections to be combined to fit the length of the work area without losing rigidity.
- Unique bed length section design provide superior rigidity across the entire bed length.
- Connection plates and fasteners optimized to provide the ultimate in rigidity, even when bed is extended by 2 or 3 times the original length.

### Powerful, Precise Machining

- Features heavy duty spindle design and a choice of Hydraulic Power Units - a 25 Hp (18.6 kW) HPU allows use of cutter heads of up to 10 inches (254.0 mm) in diameter.
- Milling can be done in any axis, with a milling head that can rotate 360° with an optional swivel plate for optimal spindle flexibility. An optional Z-axis slide assembly can be used for side milling and to increase the stroke needed for drilling or extended milling operations.



- Fast, aggressive milling in horizontal, vertical, or inverted applications.
- Provides reliable, precise milling to meet tight machining tolerances in both linear and gantry mill configurations.

### Flexible Configuration & Operation

- Innovative design allows machine to be configured for traditional linear milling, or simply split the rails lengthwise to configure for gantry milling!!
- Electric feeds can be mounted on the X, Y or Z axis.
- Machining capabilities include milling, drilling and even boring.

### Reduced Friction Rail Technology

- Reduced friction rail system allows extremely smooth, continuous, and non stick-slip travel.
- Precisely machined and aligned rails with advanced lubrication make machining applications smooth and efficient.
- Low friction system reduces maintenance costs and extends product life.
- Precision ball screws in X, Y and Z- axis assemblies allow precise location of milling head.

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# SPECIFICATIONS

## Operating Ranges:

|              | Bed                    |                        | Ram                    |                        |
|--------------|------------------------|------------------------|------------------------|------------------------|
|              | Travel                 | Length                 | Travel                 | Length                 |
| LM6200 Model | 32 inches (812.8 mm)   | 48 inches (1219.2 mm)  | 26 inches (660.4 mm)   | 36 inches (914.4 mm)   |
|              | 56 inches (1422.4 mm)  | 72 inches (1828.8 mm)  | 38 inches (965.2 mm)   | 48 inches (1219.2 mm)  |
|              | 80 inches (2032.0 mm)  | 96 inches (2438.4 mm)  | 72 inches (1828.8 mm)  | 82 inches (2082.8 mm)  |
|              | 104 inches (2641.6 mm) | 120 inches (3048.0 mm) | 106 inches (2692.4 mm) | 116 inches (2946.4 mm) |
|              | 128 inches (3251.2 mm) | 144 inches (3657.6 mm) |                        |                        |
|              | 152 inches (3860.8 mm) | 168 inches (4267.2 mm) |                        |                        |
|              | 176 inches (4470.4 mm) | 192 inches (4876.8 mm) |                        |                        |

US

Metric

### Spindle Assembly:

Milling Head Spindle with #50 Taper  
Spindle Drive  
Axial Tool Head Travel  
Milling Head Gearbox Ratio  
Tool Head Position

NMTB or CATV

NMTB or CATV

Spindle Drive

Hydraulic

Hydraulic

Axial Tool Head Travel

8 inches

203.2 mm

Milling Head Gearbox Ratio

1 : 1

1 : 1

Tool Head Position

in 90° increments  
(infinite 360° position w/ optional swivel plate)

in 90° increments  
(infinite 360° position w/ optional swivel plate)

Gearbox Position Adjustment

180° in 90° increments (3 positions)

### Electric Feed

Drive Power

Modified Baldor GP3303 1/2 HP DC gear motor

Gearbox Reduction

20 : 1

20:1

Feed Rate

0.5 - 24 in/min

12.7 - 609.6 mm/min

Power Input Requirements

5 amps @ 120V / 2.5 amps @ 230V

### Overall Dimensions

Bed (overall length)

Bed Length + 2.5 in.

Bed Length + 63.5 mm

Ram (overall width)

Ram Length + 2.5 in.

Ram Length + 63.5 mm

Height without hand wheel  
with hand wheel

24.0 inches

609.6 mm

32.1 inches

815.3 mm

## TEST DATA

All test cuts performed with a 25Hp (18.6 KW) HPU and a 18.7 cu in. (306.4 cu cm) hydraulic motor in A-36 steel

| Orientation                              | Cutter Diameter                             | Inserts | Depth of Cut            | Width of Cut         | Feed Rate                |
|--|---|---------|-------------------------|----------------------|--------------------------|
| Horizontal Overhang                      | 10 inches (254.0 mm)                        | 10      | 0.020 inches (0.508 mm) | 10 inches (254.0 mm) | 14 in/min (355.6 mm/min) |
| Horizontal Overhang                      | 10 inches (254.0 mm)                        | 10      | 0.060 inches (1.524 mm) | 10 inches (254.0 mm) | 1 in/min (25.4 mm/min)   |
| Vertical Overhang                        | 10 inches (254.0 mm)                        | 10      | 0.020 inches (0.508 mm) | 5 inches (127.0 mm)  | 14 in/min (355.6 mm/min) |
| 82inch (2082.8mm) Gantry                 | 8 inches (203.2 mm)                         | 8       | 0.050 inches (1.27 mm)  | 8 inches (203.2 mm)  | 1 in/min (25.4 mm/min)   |
| 82inch (2082.8mm) Gantry                 | 8 inches (203.2 mm)                         | 8       | 0.075 inches (1.91 mm)  | 4 inches (101.6 mm)  | 1 in/min (25.4 mm/min)   |
| Drilling                                 | 1.5 inch (38.1 mm)<br>superdrill            | n/a     | 2 inches (50.8 mm)      | n/a                  | Spindle RPM: 250         |
| Boring                                   | 2.5 inch (63.5 mm)<br>Criterion Boring Head | n/a     | 2 inches (50.8 mm)      | n/a                  | Spindle RPM: 425         |
| Side Milling w/ Z-Axis Slide             | 5 inches (127.0 mm)                         | 6       | 0.100 inches (2.54 mm)  | 5 inches (127.0 mm)  | 10 in/min (254.0 mm/min) |
| Below the bed milling w/<br>Z-Axis Slide | 5 inches (127.0 mm)                         | 6       | 0.065 inches (1.65 mm)  | 5 inches (127.0 mm)  | 6 in/min (152.4 mm/min)  |

| Flatness (Machine setup & flatness measurements performed with a Hamar laser) |                     |         |                  |                                       |                         |
|---|---------------------|---------|------------------|---------------------------------------|-------------------------|
| Configuration   | Cutter Diameter     | Inserts | Material         | Area                                  | Total Flatness          |
| Linear Milling  | 8 inches (203.2 mm) | 8       | A-36 Steel Plate | 4.0 x 48.0 inches (101.6 x 1219.2 mm) | 0.002 inches (0.051 mm) |
| Gantry Milling  | 8 inches (203.2 mm) | 8       | A-36 Steel Plate | 8.0 x 48.0 inches (203.2 x 1219.2 mm) | 0.002 inches (0.051 mm) |

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.

# TOOL CONFIGURATIONS

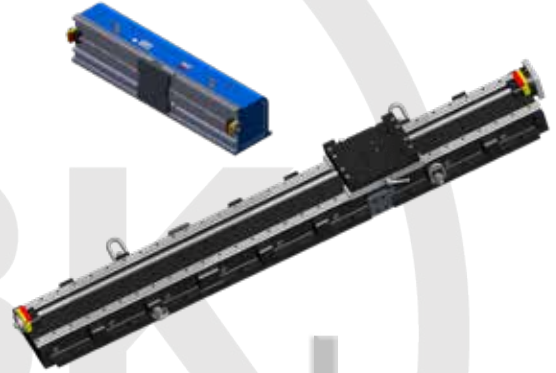
## Easy Conversion from Linear to Gantry Milling

The Climax LM5200 and LM6200 Milling Machines can be easily reconfigured to perform Linear or Gantry Milling. Below is a step by step overview of the conversion steps from traditional linear milling to gantry milling.

1 Linear Mill set up for overhead milling.



2 Separate main bed and RAM.



3 Split the bed & saddle pictured above into two separate rails for Gantry Milling as pictured below.



4 Reattach RAM to saddle and rails for a complete Gantry Mill.



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.

# TOOL CONFIGURATIONS

Configure your LM6200 in 14 steps:

- 1 Select a Base Unit
- 2 Select a Gantry Kit
- 3 Select a RAM Assembly
- 4 Select a Shipping Container
- 5 Select a Riser Assembly
- 6 Milling Head Assembly
- 7 Select Tooling
- 8 Select a Spindle Hydraulic Motor
- 9 Z-Axis Slide Assembly
- 10 Select a Milling Head Swivel Assembly
- 11 Select a Hydraulic Power Unit (HPU)
- 12 Select Hoses and Pendant Cable Assemblies
- 13 Select a Stand Alone Feed Control
- 14 Select a Feed Assembly
- 15 Select a Z-Axis Feed Adapter

To generate the correct part number for the machine you require, simply select the part number needed in each step as appropriate, and contact your Climax representative.

## 1. Base Unit

|  |              |
|--|--------------|
| Base Unit, 32 Inch (812.8 mm) Travel,<br>Bed Length 48 Inch (1219.2 mm)    | <b>66279</b> |
| Base Unit, 56 Inch (1422.4 mm) Travel,<br>Bed Length 72 Inch (1828.8 mm)   | <b>66280</b> |
| Base Unit, 80 Inch (2032.0 mm) Travel,<br>Bed Length 96 Inch (2438.4 mm)   | <b>66281</b> |
| Base Unit, 104 Inch (2641.6 mm) Travel,<br>Bed Length 120 Inch (3048.0 mm) | <b>66282</b> |
| Base Unit, 128 Inch (3251.2 mm) Travel,<br>Bed Length 144 Inch (3657.6 mm) | <b>64238</b> |
| Base Unit, 152 Inch (3860.8 mm) Travel,<br>Bed Length 168 Inch (4267.2 mm) | <b>66283</b> |
| Base Unit, 176 Inch (4470.4) Travel,<br>Bed Length 192 Inch (4876.8 mm)    | <b>66284</b> |



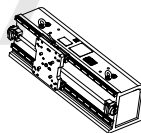
## 2. Gantry Kit

|  |              |
|--|--------------|
| Gantry Kit For 32 Inch (812.8 mm) Travel,<br>Bed Length 48 Inch (1219.2 mm)    | <b>64973</b> |
| Gantry Kit For 56 Inch (1422.4 mm) Travel,<br>Bed Length 72 Inch (1828.8 mm)   | <b>64974</b> |
| Gantry Kit For 80 Inch (2032.0 mm) Travel,<br>Bed Length 96 Inch (2438.4 mm)   | <b>64975</b> |
| Gantry Kit For 104 Inch (2641.6 mm) Travel,<br>Bed Length 120 Inch (3048.0 mm) | <b>64976</b> |
| Gantry Kit For 128 Inch (3251.2 mm) Travel,<br>Bed Length 144 Inch (3657.6 mm) | <b>64831</b> |
| Gantry Kit For 152 Inch (3860.8 mm) Travel,<br>Bed Length 168 Inch (4267.2 mm) | <b>64977</b> |
| Gantry Kit For 176 Inch (4470.4) Travel,<br>Bed Length 192 Inch (4876.8 mm)    | <b>66288</b> |



## 3. RAM Assembly

|  |              |
|--|--------------|
| RAM Assembly 26 Inch (660.4 mm) Travel,<br>Length 36 Inch (914.4 mm)     | <b>72584</b> |
| RAM Assembly 38 Inch (965.2 mm) Travel,<br>Length 48 Inch (1219.2 mm)    | <b>72585</b> |
| RAM Assembly 72 Inch (1828.8 mm) Travel,<br>Length 82 Inch (2082.8 mm)   | <b>72586</b> |
| RAM Assembly 106 Inch (2692.4 mm) Travel,<br>Length 116 Inch (2946.4 mm) | <b>72587</b> |

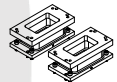


## 4. Shipping Container

|   |              |
|---|--------------|
| Wooden Crate for 32 Inch (812.8 mm) Travel Bed  | <b>65078</b> |
| Metal Container for 32 Inch (812.8 mm) Travel Bed                                       | <b>65397</b> |
| Wooden Crate for 56 Inch (1422.4 mm) Travel Bed   | <b>65079</b> |
| Metal Container for 56 Inch (1422.4 mm) Travel Bed                                      | <b>65398</b> |
| Wooden Crate for 32 Inch (812.8 mm) or<br>56 Inch (1422.4 mm) Travel Bed w/ Long RAM    | <b>65080</b> |
| Metal Container for 32 Inch (812.8 mm) or<br>56 Inch (1422.4 mm) Travel Bed w/ Long RAM | <b>65399</b> |
| Wooden Crate for 80 Inch (2032.0 mm) Travel Bed   | <b>65080</b> |
| Metal Container for 80 Inch (2032.0 mm) Travel Bed                                      | <b>65399</b> |
| Wooden Crate for 104 Inch (2641.6 mm) Travel Bed  | <b>65081</b> |
| Metal Container for 104 Inch (2641.6 mm) Travel Bed                                     | <b>65400</b> |
| Wooden Crate for 128 Inch (3251.2 mm) Travel Bed  | <b>65082</b> |
| Metal Container for 128 Inch (3251.2 mm) Travel Bed                                     | <b>65401</b> |
| Wooden Crate for 152 Inch (3860.8 mm) Travel Bed  | <b>65083</b> |
| Metal Container for 152 Inch (3860.8 mm) Travel Bed                                     | <b>65402</b> |
| Wooden Crate for 176 Inch (4470.4) Travel Bed   | <b>66293</b> |
| Metal Container for 176 Inch (4470.4) Travel Bed  | <b>66294</b> |

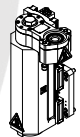
## 5. RAM Riser Assembly

|                                  |              |
|----------------------------------|--------------|
| Riser Assembly 1 Inch (25.4 mm)  | <b>64720</b> |
| Riser Assembly 3 Inch (76.2 mm)  | <b>64721</b> |
| Riser Assembly 5 Inch (127.0 mm) | <b>64722</b> |
| Riser Assembly 7 Inch (177.8 mm) | <b>64723</b> |



## 6. Milling Head Assembly

|                       |              |
|-----------------------|--------------|
| Inch #50 Taper NMTB   | <b>62282</b> |
| Inch #50 Taper CATV   | <b>62734</b> |
| Metric #50 Taper NMTB | <b>62644</b> |
| Metric #50 Taper CATV | <b>62735</b> |



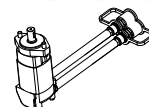
## 7. Tooling (for inch NMTB milling head assy)

|  |  |              |
|--|--|--------------|
| <b>50 Taper</b>                              |  |              |
| #50, 4 Inch (101.6 mm) Face Mill w/ Inserts  |  | <b>47383</b> |
| #50, 5 Inch (127.0 mm) Face Mill w/ Inserts  |  | <b>47384</b> |
| #50, 6 Inch (152.4 mm) Face Mill w/ Inserts  |  | <b>47385</b> |
| #50, 8 Inch (203.2 mm) Face Mill w/ Inserts  |  | <b>47386</b> |
| #50, 10 Inch (254.0 mm) Face Mill w/ Inserts |  | <b>56175</b> |
| Carbide Inserts                              |  | <b>47229</b> |

## 8. Spindle Hydraulic Motors

| Motor Displacement |                 | Max Spindle Speed      |                        | Hydraulic Motor PN |           |
|--------------------|-----------------|------------------------|------------------------|--------------------|-----------|
| in <sup>3</sup>    | cm <sup>3</sup> | @ 50 Hz<br>Mains Power | @ 60 Hz<br>Mains Power | 60 Series          | ISO 16028 |
| 6.2                | 101.6           | 668                    | 805                    | 63164              | 69497     |
| 8.0                | 131.1           | 468                    | 564                    | 53459              | 69498     |
| 9.6                | 157.3           | 386                    | 465                    | 53458              | 69499     |
| 11.9               | 195.0           | 311                    | 375                    | 46950              | 69500     |
| 14.9               | 244.2           | 249                    | 300                    | 46375              | 69501     |
| 18.7               | 306.4           | 198                    | 239                    | 46549              | 69502     |
| 24.0               | 393.3           | 156                    | 188                    | 46550              | 69503     |
| 29.8               | 488.3           | 124                    | 149                    | 48968              | 69504     |

Minimum speed is 10% of the maximum speed



NOTE: Drawings are for reference only, are not to scale, and may not represent actual product.

# TOOL CONFIGURATIONS

## 9. Z-Axis Slide Assembly

7 inch (177.8 mm) Travel

74100



## 10. Milling Head Swivel Assy

Milling Head Swivel Plate Assembly

63250



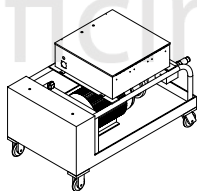
## 11. Hydraulic Power Unit

| HP2500, 208 - 230 Volts |        |                     |              |       |
|-------------------------|--------|---------------------|--------------|-------|
| Cordset/hose length     |        | Quick Connect Style |              | PN    |
| Feet                    | Meters | 60 Series QD        | ISO 16028 CE |       |
| 20                      | 6      | ✓                   |              | 90284 |
| 50                      | 15     | ✓                   |              | 84559 |
| 100                     | 30     | ✓                   |              | 90264 |
| 20                      | 6      |                     | ✓            | 90276 |
| 50                      | 15     |                     | ✓            | 90277 |
| 100                     | 30     |                     | ✓            | 90285 |

| HP250, 380 - 415 Volts |        |                     |              |       |
|------------------------|--------|---------------------|--------------|-------|
| Cordset/hose length    |        | Quick Connect Style |              | PN    |
| Feet                   | Meters | 60 Series QD        | ISO 16028 CE |       |
| 20                     | 6      | ✓                   |              | 85691 |
| 50                     | 15     | ✓                   |              | 90265 |
| 100                    | 30     | ✓                   |              | 90270 |
| 20                     | 6      |                     | ✓            | 90286 |
| 50                     | 15     |                     | ✓            | 90287 |
| 100                    | 30     |                     | ✓            | 90289 |

| HP2500, 460 Volts   |        |                     |              |       |
|---------------------|--------|---------------------|--------------|-------|
| Cordset/hose length |        | Quick Connect Style |              | PN    |
| Feet                | Meters | 60 Series QD        | ISO 16028 CE |       |
| 20                  | 6      | ✓                   |              | 85716 |
| 50                  | 15     | ✓                   |              | 90271 |
| 100                 | 30     | ✓                   |              | 90272 |
| 20                  | 6      |                     | ✓            | 90290 |
| 50                  | 15     |                     | ✓            | 90291 |
| 100                 | 30     |                     | ✓            | 90292 |

| HP2500, 575 Volts   |        |                     |              |       |
|---------------------|--------|---------------------|--------------|-------|
| Cordset/hose length |        | Quick Connect Style |              | PN    |
| Feet                | Meters | 60 Series QD        | ISO 16028 CE |       |
| 20                  | 6      | ✓                   |              | 85796 |
| 50                  | 15     | ✓                   |              | 90273 |
| 100                 | 30     | ✓                   |              | 90275 |
| 20                  | 6      |                     | ✓            | 90293 |
| 50                  | 15     |                     | ✓            | 90294 |
| 100                 | 30     |                     | ✓            | 90944 |



## 12. Stand Alone Feed Control

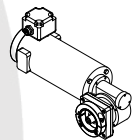
(Stand Alone Control Panel & Pendant with Cables) **NOTE:** Not needed if using a CLIMAX Hydraulic Power Unit

| Voltage | Cable Length       | PN    |
|---------|--------------------|-------|
| 120V    | 20 ft (609.6 cm)   | 53398 |
|         | 50 ft (1524.0 cm)  | 53399 |
|         | 100 ft (3048.0 cm) | 53400 |
| 230V    | 20 ft (609.6 cm)   | 53401 |
|         | 50 ft (1524.0 cm)  | 53402 |
|         | 100 ft (3048.0 cm) | 53403 |

## 13. Electric Feed Assembly

**NOTE:** 230V Feeds not for use with CLIMAX Hydraulic Power Units

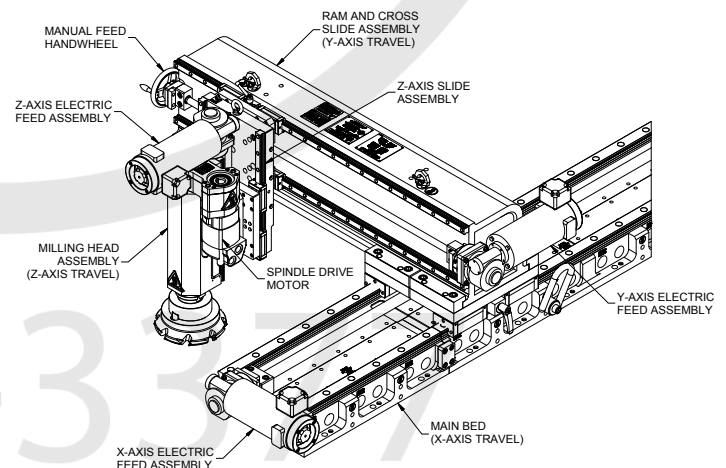
| Voltage | Cable Length       | PN    |
|---------|--------------------|-------|
| 120V    | 20 ft (609.6 cm)   | 64684 |
|         | 50 ft (1524.0 cm)  | 66310 |
|         | 100 ft (3048.0 cm) | 66311 |
| 230V    | 20 ft (609.6 cm)   | 64743 |
|         | 50 ft (1524.0 cm)  | 66312 |
|         | 100 ft (3048.0 cm) | 66313 |



## 14. Z-Axis Power Feed Adapter

Z-Axis Feed Adapter Kit - I Axis 40 Taper

64856

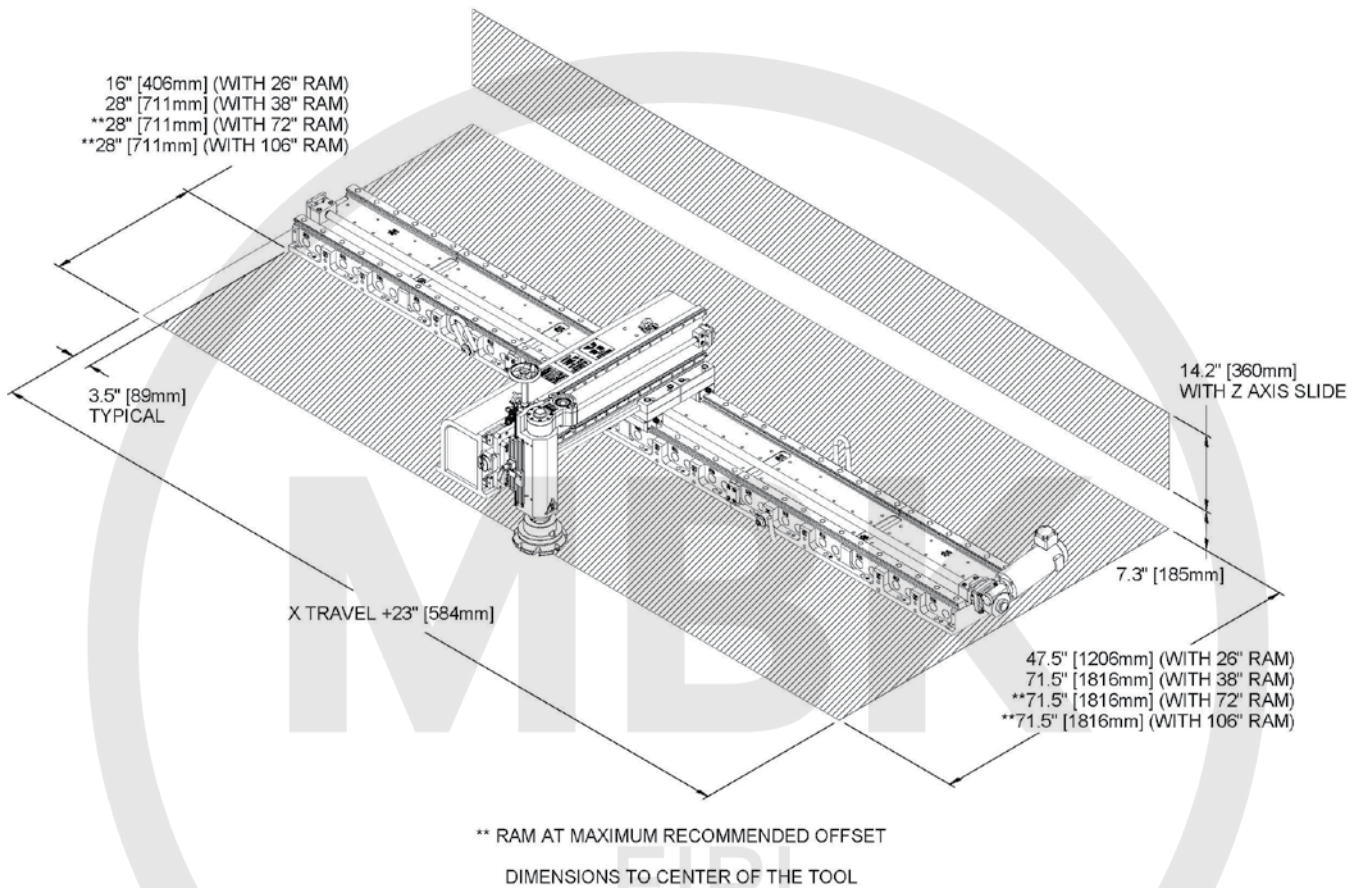


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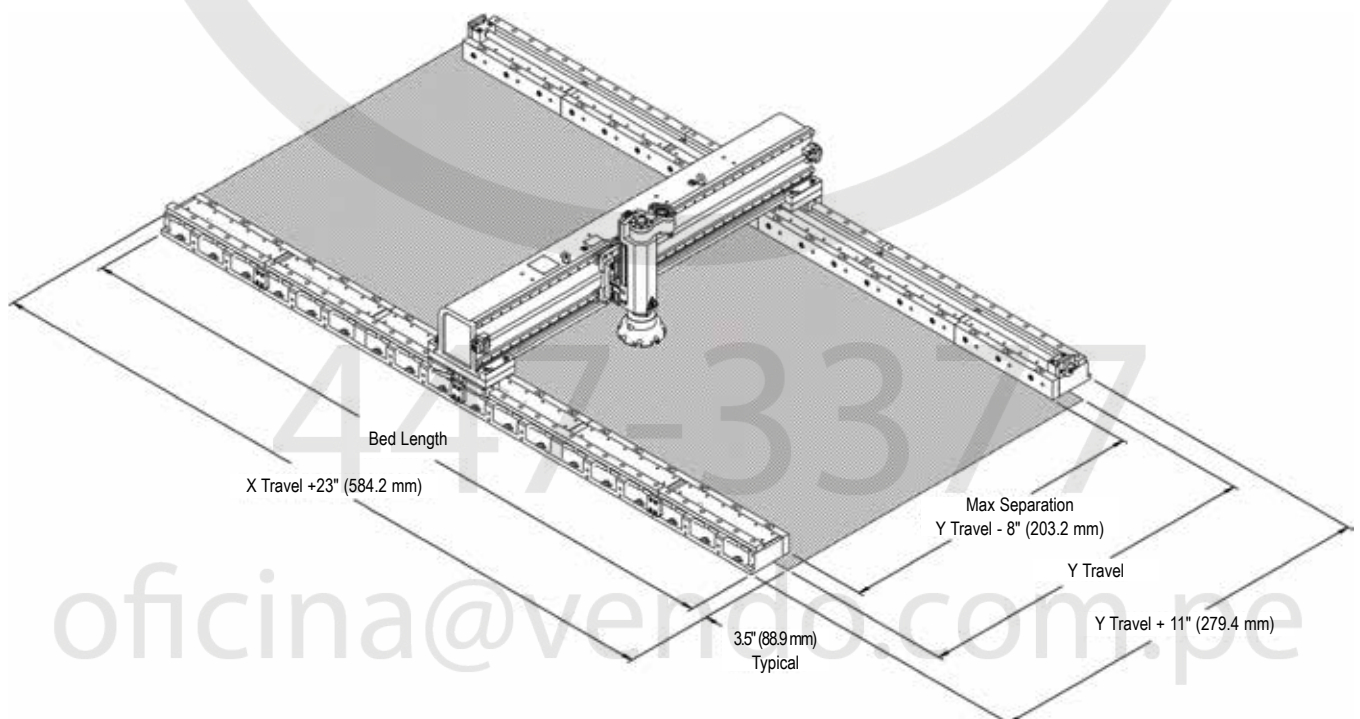
# OPERATIONAL DIMENSIONS

Dimensions in Inch (mm)

## Milling Area Dimensions - LINEAR MILLING



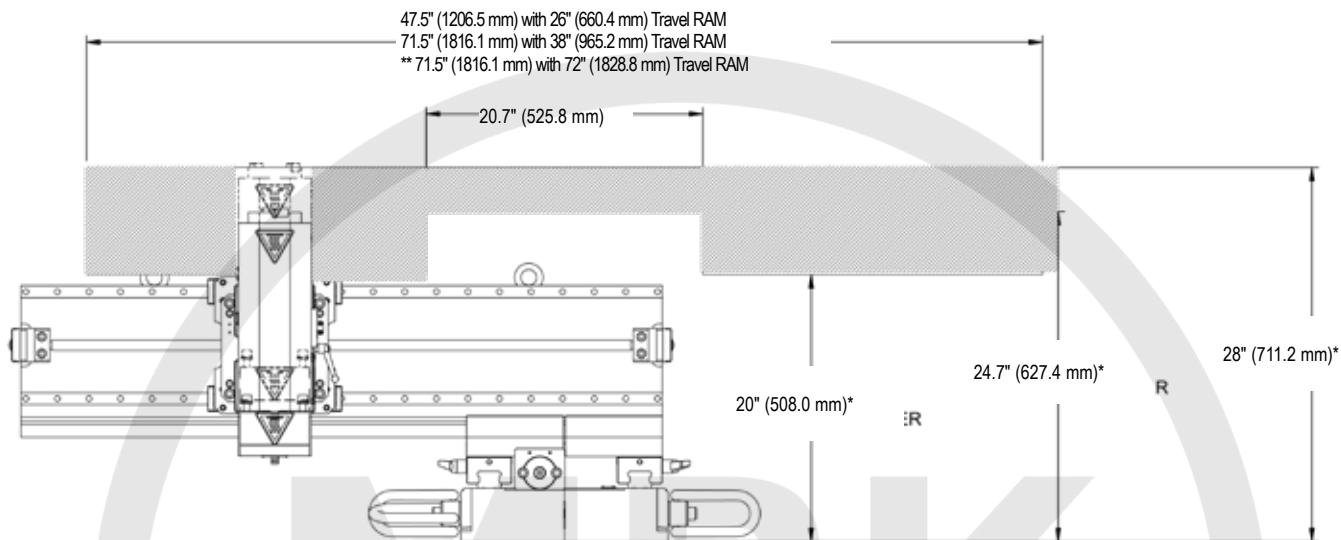
## Milling Area Dimensions - GANTRY MILLING



# OPERATIONAL DIMENSIONS

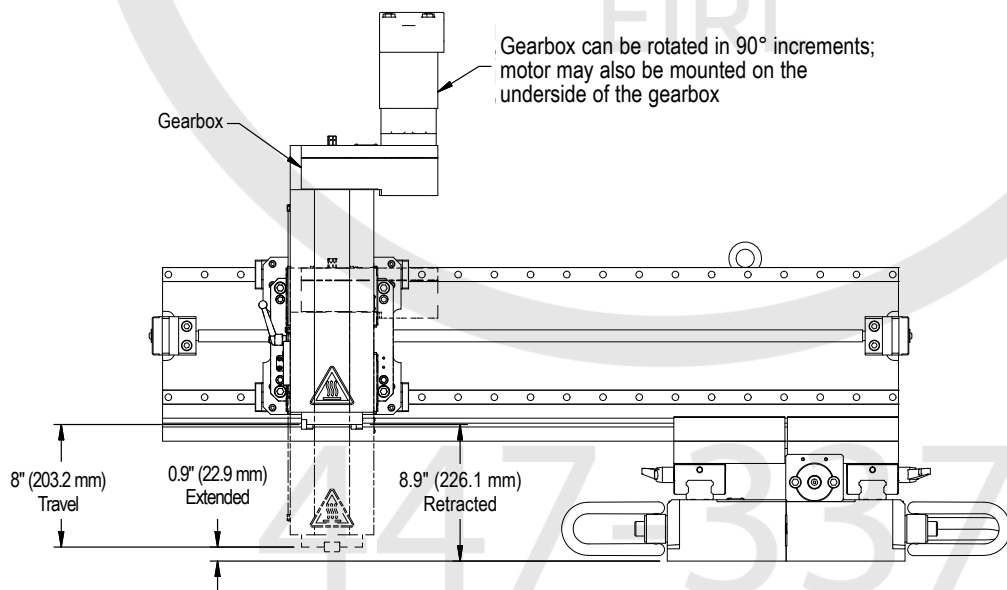
Dimensions in Inch (mm)

## Inverted Milling Area



\* Without riser assembly, 5" (127.0 mm) required to clear bed assembly.  
 \*\* Dimensions shown are with RAM at max recommended offset.

## Spindle Travel



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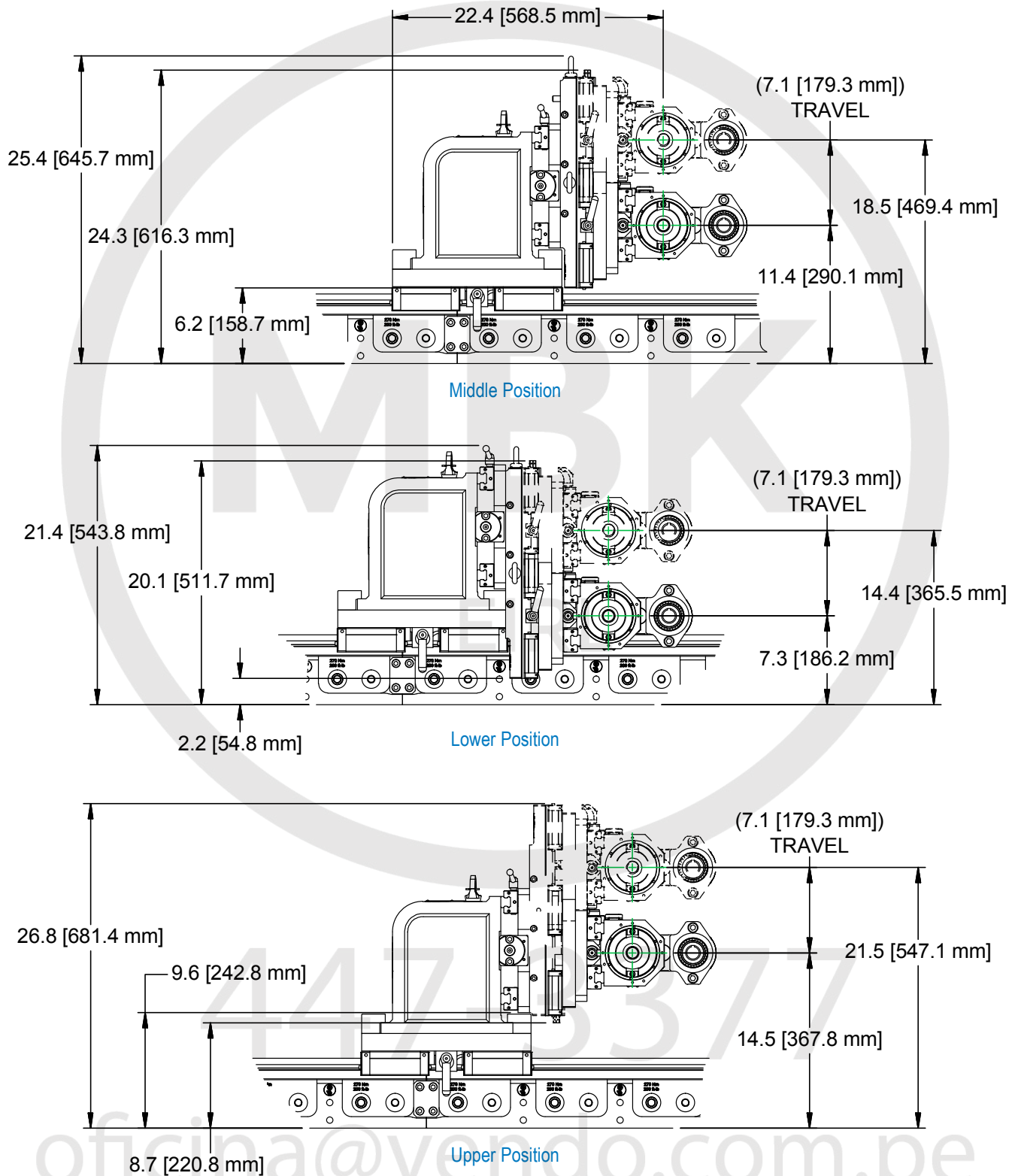




# OPERATIONAL DIMENSIONS

Dimensions in Inch (mm)

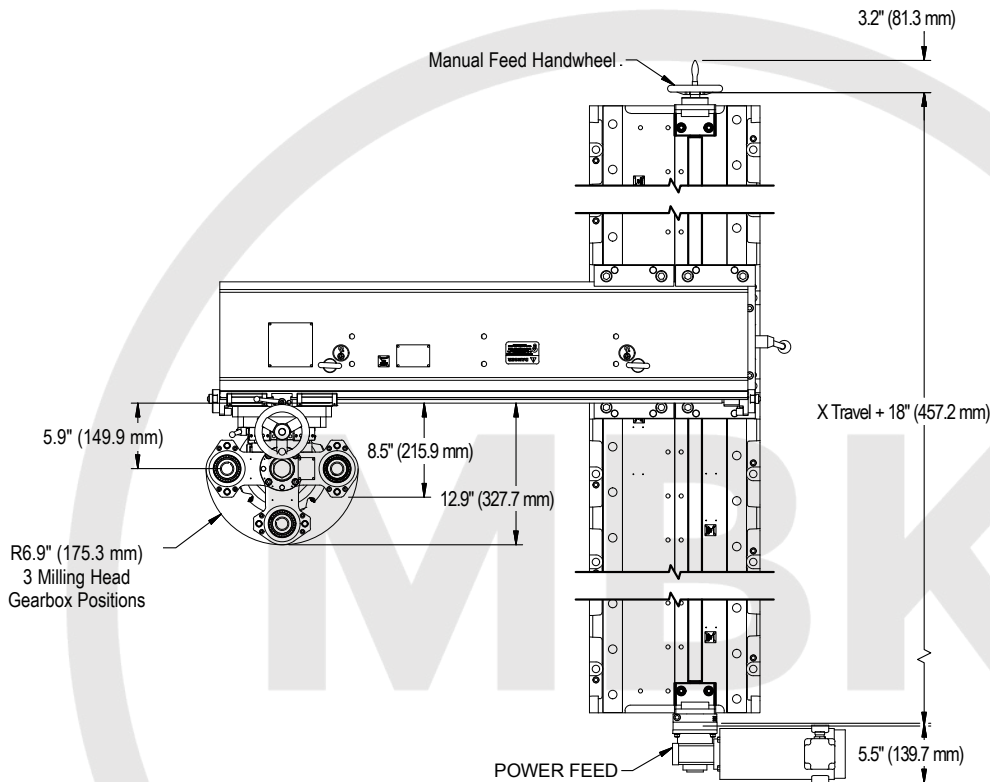
## Machining Ranges (Tool Center Travel) Using Z-Axis Slide Assembly



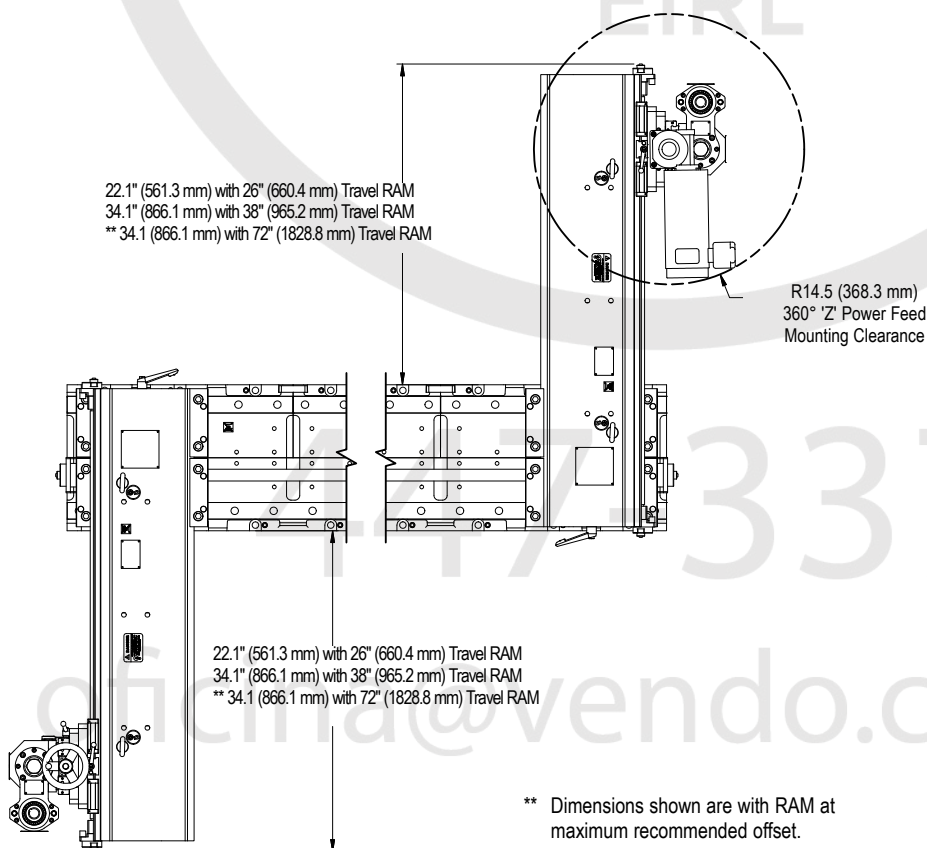
# OPERATIONAL DIMENSIONS

Dimensions in Inch (mm)

## Overhead View - Standard Offset



## Overhead View - RAM at Maximum Recommended Offset

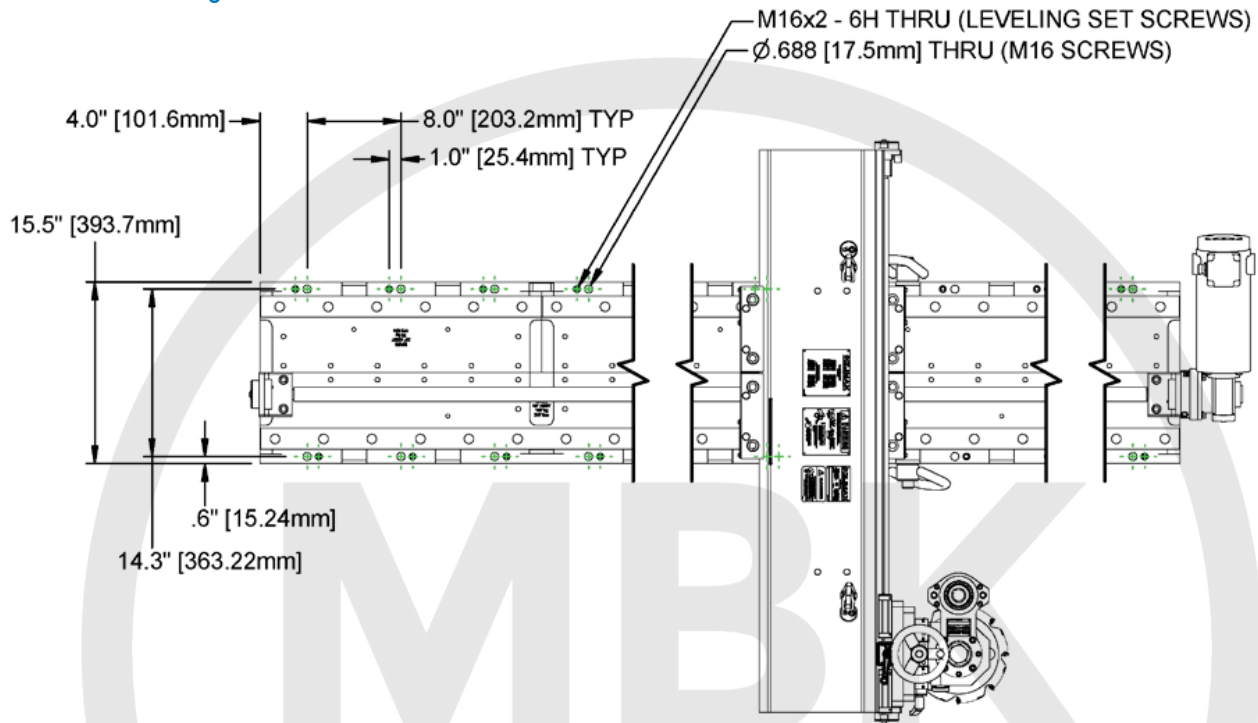


\*\* Dimensions shown are with RAM at maximum recommended offset.

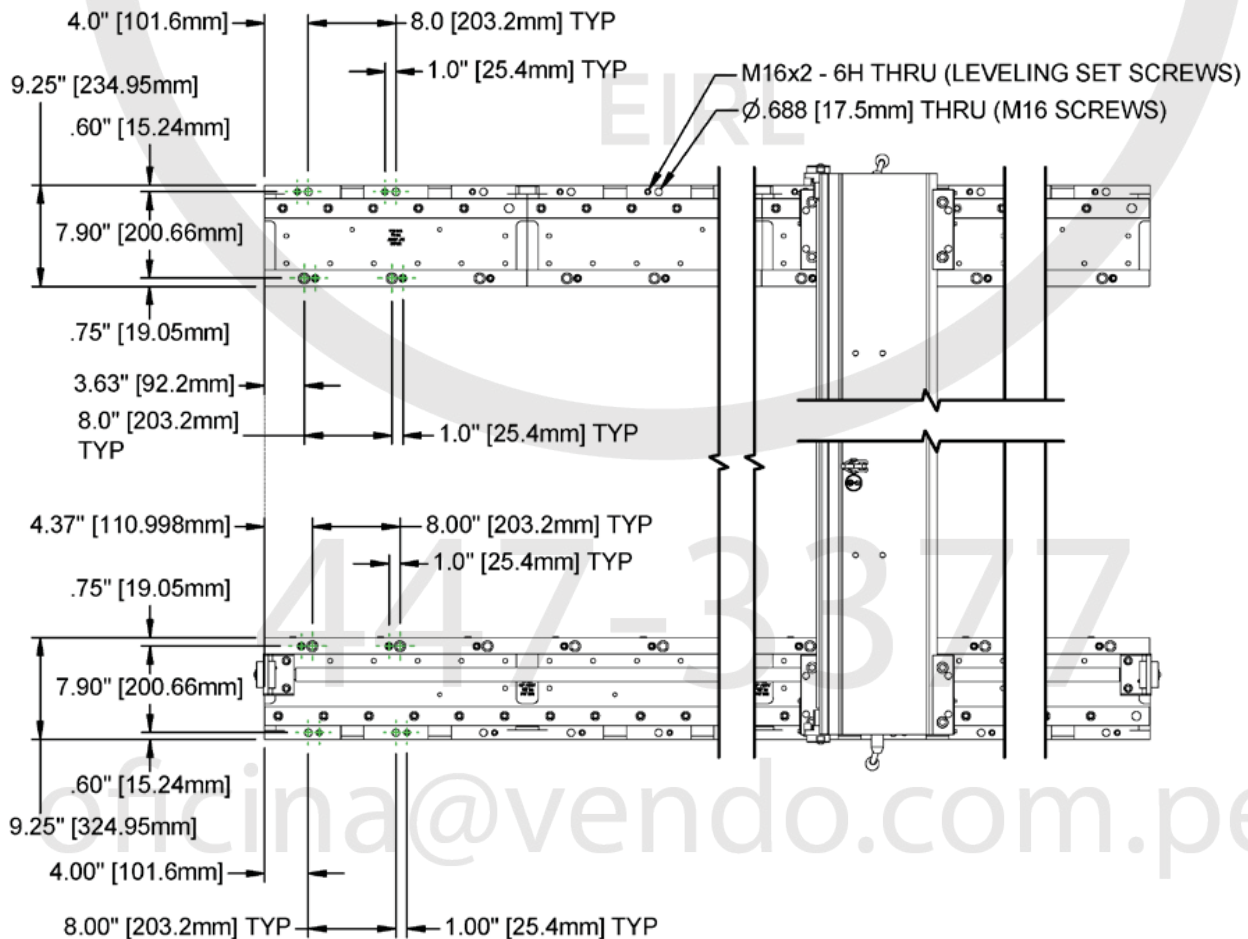
# OPERATIONAL DIMENSIONS

Dimensions in Inch (mm)

## Standard Mounting Pattern



## Gantry Mounting Pattern



# CLIMAX GLOBAL LEARNING CENTER

CLIMAX has been teaching the fundamentals and finer points of portable machine tool operation for more than 50 years.

Whether it's a regularly scheduled course at one of our seven Global Training Centers or a custom curriculum conducted with your team, at your facility, your technicians will benefit from courses developed by the most experienced and respected professionals in the business.

Regularly scheduled courses in basic and advanced tool operation are available. A vast majority of every program is devoted to hands-on activities, skills development, and OEM Certification covering the following subject matters: operator safety, tool component review, setup and mounting, standard and advanced operational techniques, overview of cutting tools and recommended usage, and maintenance procedures. Training is available at the following seven Global Training Centers: Portland, Oregon; Houston, Texas; Gonzales, Louisiana; Wadsworth, Ohio; Manchester, United Kingdom; Düren, Germany, Dubai; and United Arab Emirates. Call us today to schedule training for your team!



## Call CLIMAX for:

### RENTALS

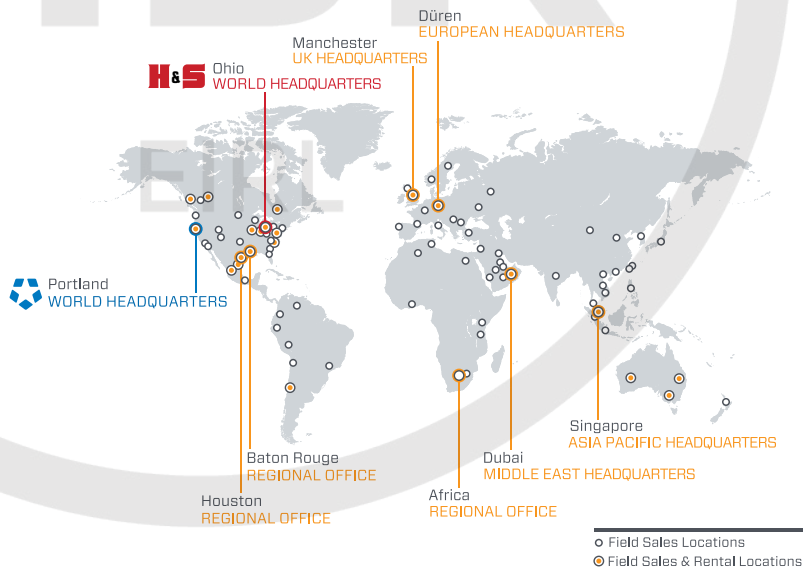
With 20+ worldwide rental depot locations, you are never far away from a CLIMAX tool.

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If you need training or on-site consultation, we're famous for it!

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Custom turn-key system design services from the most experienced engineers and portable machining and welding experts!



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