Linear and Gantry Milling in one machine, for X-Axis travel of up to 84 inches (2133.6 mm) and Y-Axis travel of up to 34 inches (863.6 mm).

The Climax LM5200 Milling Machine revolutionizes both the capabilities and functionality of portable mills. Four main features make this one of the best milling machines on the market today:

- 1. Extremely rigid, modular bed design.
- Innovative configuration options allow setup for both Linear AND Gantry Milling in one machine.
- 3. Powerful, precise machining.
- 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 provides 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.

Flexible Configuration & Operation

- The innovative new design of these Climax Milling Machines allow them 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.



Powerful, Precise Machining

- Features heavy duty spindle design and a choice of Hydraulic Power Units - a 10 Hp (7.5 kW) HPU allows use of cutter heads of up to 6 inches (152.4 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.
- 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.

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.





Operating Ranges:

	Bed	
	Travel	Length
LM5200 Model	36 inches (914.4 mm)	48 inches (1219.2 mm)
	60 inches (1524.0 mm)	72 inches (1828.8 mm)
	84 inches (2133.6 mm)	96 inches (2438.4 mm)

Ram			
Travel	Length		
16 inches	26 inches		
(406.4 mm)	(660.4 mm)		
34 inches	44 inches		
(863.6 mm)	(1117.6 mm)		

US Metric

Spindle Assembly (Z-Axis):

Milling Head Spindle with #40 Taper NMTB or CATV or optional HSK

Spindle Drive Hydraulic, Optional

Axial Tool Head Travel 4 inches 101.6 mm

Milling Head Gearbox Ratio 1:1 1:1

Tool Head Position 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

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)

Ram (overall width)

Bed Length + 2.5 in.

Bed Length + 63.5 mm

Ram Length + 2.5 in.

Ram Length + 63.5 mm

Height without hand wheel 18.75 inches 476.3 mm

with hand wheel 22.0 inches 558.8 mm

TEST DATA

All test cuts performed with a 10Hp (7.5 KW) HPU and a 7.3 cu. in. (119.6 cu. cm) hydraulic motor in A-36 steel

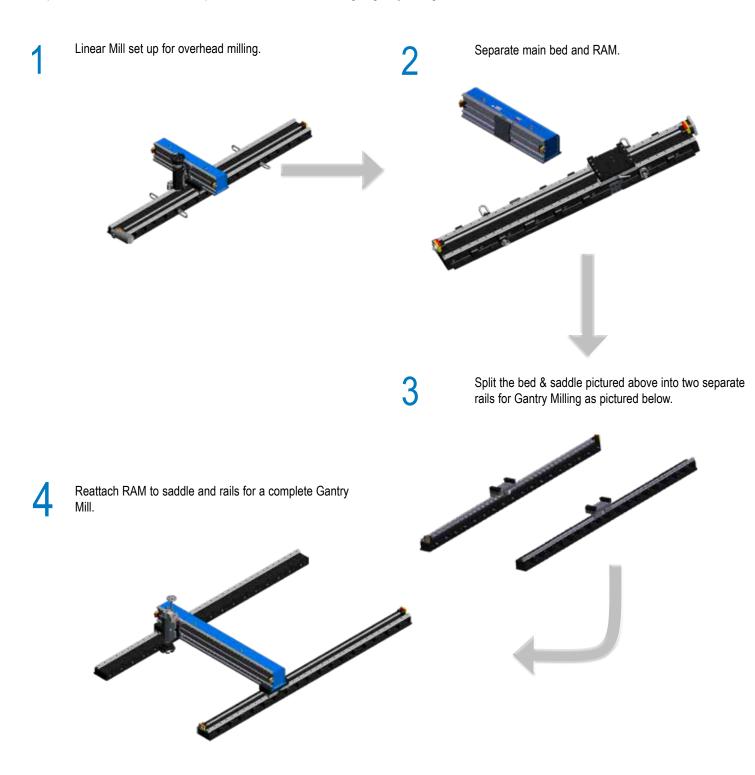
Orientation	Cutter Diameter	Inserts	Depth of Cut	Width of Cut	Feed Rate
Horizontal Overhang	6 inches (152.4 mm)	7	0.020 inches (0.508 mm)	6 inches (152.4 mm)	14 in/min (355.6 mm/min)
Horizontal Overhang	6 inches (152.4 mm)	7	0.020 inches (0.508 mm)	3 inches (76.2 mm)	14 in/min (355.6 mm/min)
Horizontal Gantry	6 inches (152.4 mm)	7	0.020 inches (0.508 mm)	3 inches (76.2 mm)	12 in/min (304.8 mm/min)
Horizontal Gantry	6 inches (152.4 mm)	7	0.055 inches (1.397 mm)	3 inches (76.2 mm)	1 in/min (25.4 mm/min)
Vertical	4 inches (101.6 mm)	6	0.020 inches (0.508 mm)	3 inches (76.2 mm)	15 in/min (381 mm/min)
Drilling	1.5 inch (38.1 mm) superdrill	n/a	2 inches (50.8 mm)	n/a	Spindle RPM: 250
Boring	2.5 inch (63.5 mm) Criterion Boring Head	n/a	2 inches (50.8 mm)	n/a	Spindle RPM: 425

Flatness (Machine setup & flatness measurements performed with a Hamar laser)					
Configuration	Cutter Diameter	Inserts	Material	Area	Total Flatness
Linear Milling	6 inches (152.4 mm)	7	A-36 Steel Plate	6.0 x 36.0 inches (152.4 x 914.4 mm)	0.0018 inches (0.046 mm)
Gantry Milling	6 inches (152.4 mm)	7	A-36 Steel Plate	6.0 x 36.0 inches (152.4 x 914.4 mm)	0.0015 inches (0.038 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.

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.



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 LM5200 in 13 steps:

- Select a Base Unit
- 2 Select a Gantry Kit
- 3 Select a RAM Assembly
- 4 Select a Shipping Container
- 5 Select a Milling Head Assembly
- 6 Select Tooling
- 7 Select a Spindle Hydraulic Motor
- Select a Milling Head Swivel Assembly
- 9 Select a Hydraulic Power Unit (HPU)
- Select Hoses and Pendant Cable Assemblies
- Select a Stand Alone Feed Control 11
- 12 Select a Feed Assembly
- 13 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.

Base Unit

2000 0		
Base Unit, 36 Inch (914.4 mm) Travel,	66324	
Bed Length 48 Inch (1219.2 mm)		
Base Unit, 60 Inch (1524.0 mm) Travel,	64201	
Bed Length 72 Inch (1828.8 mm)		À
Base Unit, 84 Inch (2133.6 mm) Travel,	66325	##
Bed Length 96 Inch (2438.4 mm)		

64978

64624

64979

72642

72643

67652

Gantry Kit

Gantry Kit For 36 Inch (914.4 mm) Travel, Bed Length 48 Inch (1219.2 mm)
Gantry Kit For 60 Inch (1524.0 mm) Travel, Bed Length 72 Inch (1828.8 mm)
Gantry Kit For 84 Inch (2133.6 mm) Travel, Bed Length 96 Inch (2438.4 mm)

RAM Assembly

Length 26 Inch (660.4 mm)	ı
RAM Assembly 34 Inch (863.6 mm) Travel. Length 44 Inch (1117.6 mm)	1
RAM Assembly 16 Inch (406.4 mm) Travel. 26 Inch (660.4 mm) & RAM Assembly 34 Ir (863.6 mm) Travel, Length 44 Inch (1117.6	nch

Shipping Container

11 3	
Wooden Crate for 36 In (914.4 mm) Travel Bed	65237
Metal Container for 36 In (914.4 mm) Travel Bed	101902
Wooden Crate for 60 In (1524.0 mm) Travel Bed	65239
Metal Container for 60 In (1524.0 mm) Travel Bed	101903
Wooden Crate for 84 In (2133.6 mm) Travel Bed	65240
Metal Container for 84 In (2133 6 mm) Travel Bed	101904

Milling Head Assembly

Willing Fload Assembly	
Inch #40 Taper NMTB	62399
Inch #40 Taper CATV	62732
Metric #40 Taper NMTB	62654
Metric #40 Taper CATV	62733
Hydraulic #40 HSK	65262
Pneumatic Right Angle #40 HSK	68455
Pneumatic Direct Drive #40 HSK	68584



Tooling (for inch milling head assy only)

HSK #40A Hydraulic #40A, 3 Inch (76.2 mm) HSK Face Mill w/ Inserts	64984
Carbide Inserts	47229
#40, 6 Inch (145.4 mm) Face Mill with Inserts	47382
#40, 5 Inch (127.0 mm) Face Mill with Inserts	47381
11-10, - Intol (101.0 min) I doc will with intocito	41000

47380

64985

47229

Carbide Inserts **Collet Tooling**

Collet Holder ER-32 #40A HSK Taper,

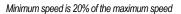
0.08 - 0.81 Inch (2.0 - 20.6 mm)

HSK	40 A	Hydrauli	^

HSK 40A Hydraulic	
Collet Inch ER-32, ¾ Inch	64986
Collet Metric ER-32, 20 mm	66344
Collet Set Inch ER-32, 1/8 - 13/16, 1/16 Increments	66345
Collet Set Metric ER-32, 3 - 20 mm, 1mm Increments	66346
Cutter Fly 2-1/2 Inch Diameter Head x 3/4 Inch Shank	20713
Cutter Fly 2-1/4 Inch (57.15 mm) Dia. Head x 20 mm Shank	31625

Spindle Hyd. Motors Assembly

Milling	Motor Displacement		Max Spindle Speed		Hydraulic Motor PN	
Head Assembly	in ³	cm ³	@ 50 Hz Mains Power	@ 60 Hz Mains Power	60 Series	ISO 16028
	3.6	59.0	490	591	62627	84224
40 Taper	5.9	93.4	292	353	62628	84225
	7.3	119.6	228	275	62629	84226
	8.8	144.2	183	221	62630	84227
HSK 40A	1.21	19.8	873	1009	65094	79701
11011 407	1.93	31.6	502	606	65095	79699
	3.00	49.2	306	369	65096	83963



Milling Head Swivel Assembly

Milling Head Swivel Plate Assembly

66217

Hydraulic Power Unit

HP1000, 208 - 230 Volts					
Cordset/h	ose length	Quick Connect Style		PN	
Feet	Meters	60 Series QD	ISO 16028 CE		
20	6	✓		85815	
50	15	✓		90947	
100	30	✓		90948	
20	6		✓	90962	
50	15		✓	90963	
100	30		✓	90964	
	Feet 20 50 100 20 50	Cordset/hose length Feet Meters 20 6 50 15 100 30 20 6 50 15	Cordset/hose length Quick Cor Feet Meters 60 Series QD 20 6 ✓ 50 15 ✓ 100 30 ✓ 20 6 ✓ 50 15 ✓	Cordset/hose length Quick Connect Style Feet Meters 60 Series QD ISO 16028 CE 20 6 ✓ 50 15 ✓ 100 30 ✓ 20 6 ✓ 50 15 ✓	



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



40 Taper

TOOL CONFIGURATIONS

Hydraulic Power Unit (continued)

HP1000, 380 - 415 Volts				
Cordset/h	nnect Style	PN		
Feet	Meters	60 Series QD	ISO 16028 CE	
20	6	✓		85789
50	15	✓		90949
100	30	✓		90950
20	6		✓	90965
50	15		✓	90966
100	30		✓	90967

HP1000, 460 Volts				
Cordset/hose length		Quick Connect Style		PN
Feet	Meters	60 Series QD	ISO 16028 CE	
20	6	✓		85785
50	15	✓		90951
100	30	✓		90952
20	6		✓	90968
50	15		✓	90969
100	30		✓	90970

LID4000 E7E \ / II					
	HP1000, 575 Volts				
Cordset/hose length		Quick Connect Style		PN	
Feet	Meters	60 Series QD	ISO 16028 CE		
20	6	✓		89633	
50	15	✓		90953	
100	30	✓		90954	
20	6		✓	90973	
50	15		✓	90974	
100	30		✓	90975	

10. Stand Alone Feed Control

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

Voltage	Voltage Cable Length	
120V	20 ft (609.6 cm)	95573
1200	50 ft (1524.0 cm)	95574
22017	20 ft (609.6 cm)	106752
230V	50 ft (1524.0 cm)	106754

11. Electric Feed Assembly

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

Voltage	Cable Length	PN
	20 ft (609.6 cm)	64684
120V	50 ft (1524.0 cm)	66310
	100 ft (3048.0 cm)	66311

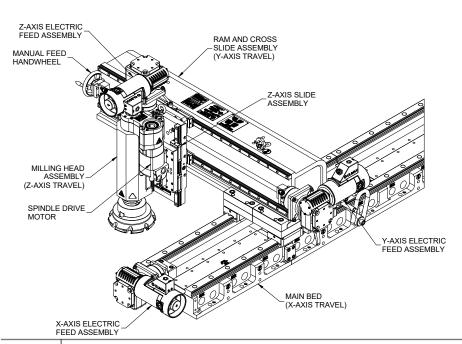


12. Z-Axis Feed Adapter

Z-Axis Feed Adapter Kit - I Axis 40 Taper

64856



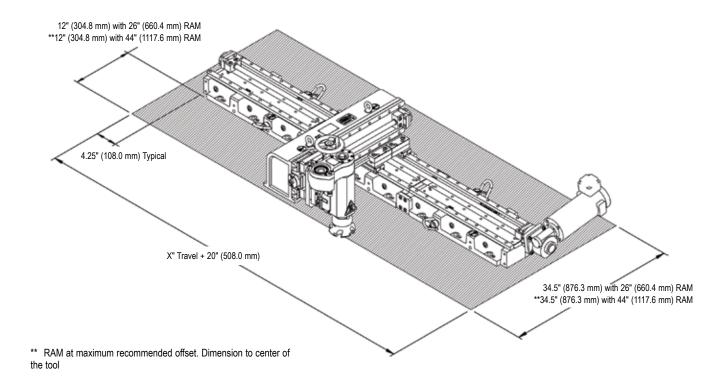


NOTE: Drawings are for reference only, are not to scale, and may not represent actual product.

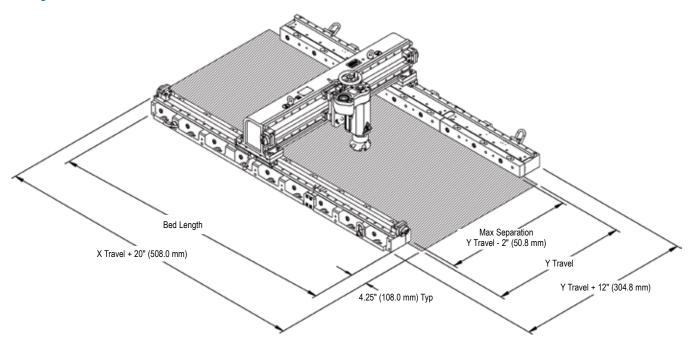


Dimensions in Inch (mm)

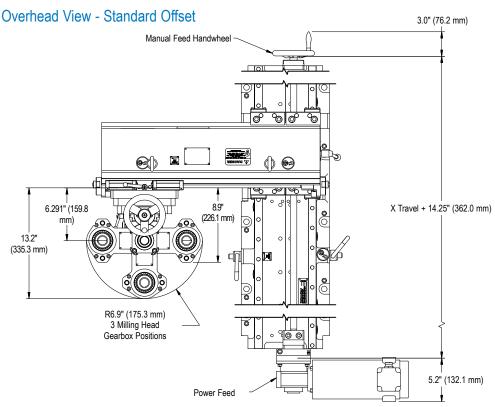
Milling Area Dimensions - LINEAR MILLING



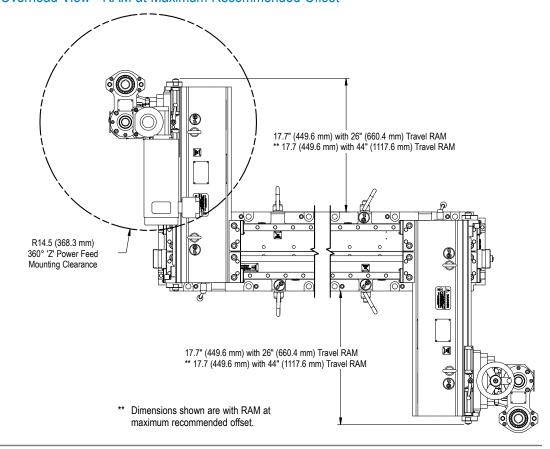
Milling Area Dimensions - GANTRY MILLING



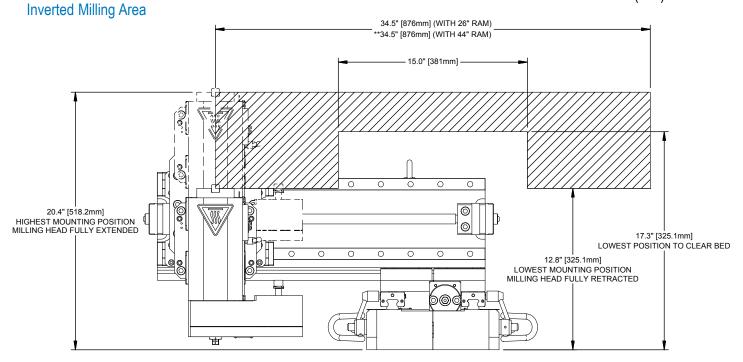
Dimensions in Inch (mm)

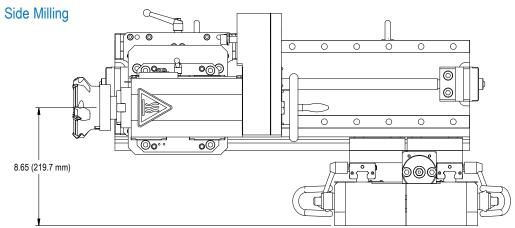


Overhead View - RAM at Maximum Recommended Offset



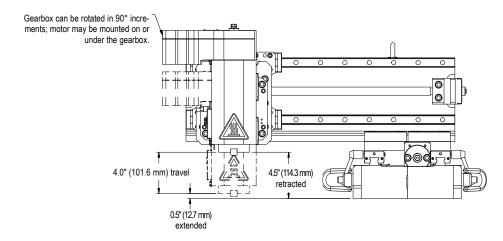
Dimensions in Inch (mm)



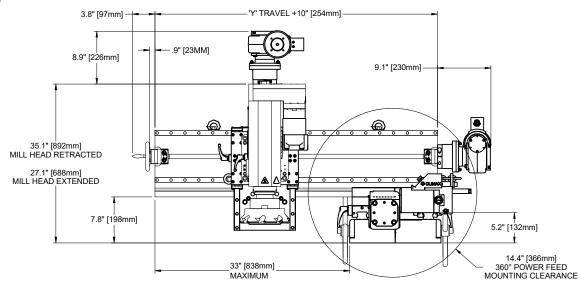


Example of side milling. (No vertical movement in this configuration.)

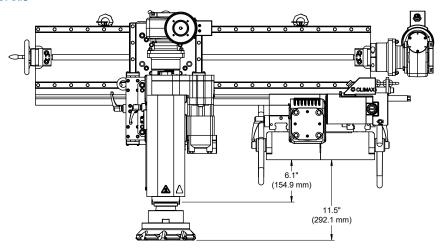
Spindle Travel



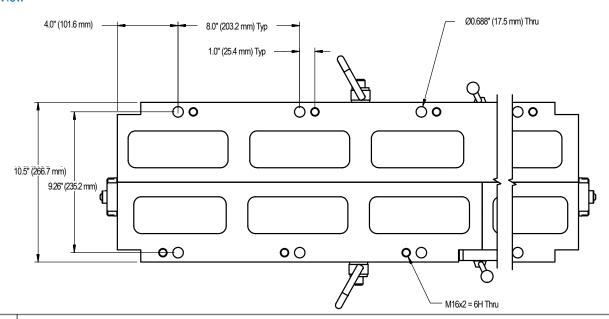
End View

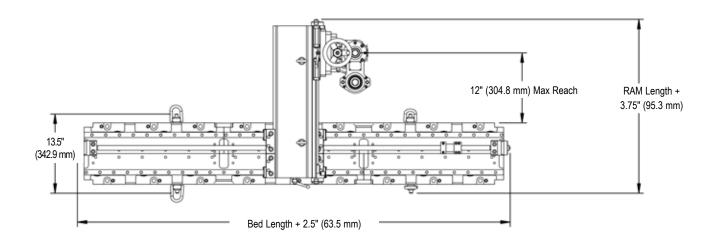


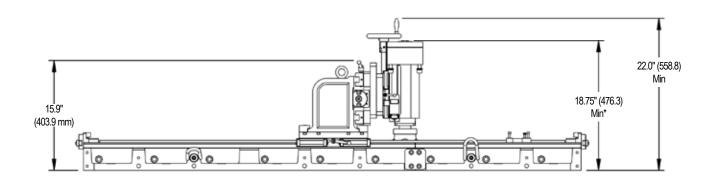
End View Milling with Z Axis



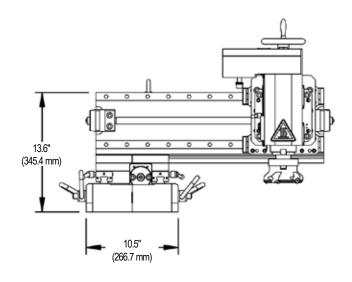
Bottom View







Minimum dimension to allow milling head with cutter to clear mounting surface



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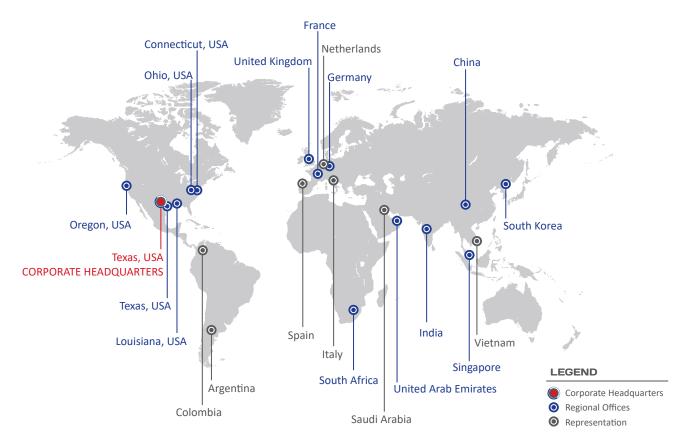
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