

One of a family of rugged, heavy-duty flange facers with facing AND milling capabilities.

Rugged Machine Design

- Large, heavy duty construction-grade bearings provide powerful, rigid performance throughout the entire machine facing range, even machining over bolt hole patterns.
- Oversized ring gear accommodates extremely high torque levels for challenging flange repair applications, and these machines are able to generate a phonographic finish.

Flexible and Versatile

- Both radial and axial feed is achieved with a pneumatic feedbox. Manual feeding for rapid positioning is also possible.
- Feed rate is adjusted remotely at the pneumatic conditioning unit, providing the ultimate in operator safety and the flexibility for feed rate adjustments even during machining operations.
- Infinitely variable feed rates from 0.002 - 0.035 inches (0.0508 - 0.889 mm)/ rev provides operational flexibility.
- Reversible feed box can be mounted to provide either radial or axial feed.
- Turning and counterweight arms can both be adjusted for the desired swing clearance and machining range.
- Tool head can be rotated a full 360° providing the ability to create a variety of chamfers, O-Ring grooves, lens rings and other angular surfaces as needed.



- Pneumatic & hydraulic drive options available.
- Chucking system can be removed to allow the flange facer to be face-mounted.
- Can be mounted both OD and ID or surface-mounted
- Milling option available with precision downfeed ball screw
- Grinding option available for fine finish work.
- Back facing attachment available for heat exchanger repair.

Quick and Easy Setup

- Modular design allows many of the machine components to be removed to facilitate easier setup and storage.
- Unique chucking system minimizes parts to greatly simplify machine setup and tear down.
- Quick-adjust leveling feet make setup quick and easy.



SPECIFICATIONS

	US	Metric
Machine Performance Ranges		
ID: Mounting range	45 - 120 inches	1143.0 - 3048.0 mm
Facing diameter range	45 - 120 inches	1143.0 - 3048.0 mm
Milling diameter range	45 - 120 inches	1143.0 - 3048.0 mm
Grinding diameter range	45 - 120 inches	1143.0 - 3048.0 mm
Swing diameter @ minimum with feedbox on end of arm	84.7 inches	2151.4 mm
Radial tool slide travel	12 inches	304.8 mm
Axial tool head travel	4 inches	101.6 mm
Depth required inside bore for ID chuck (± 0.25 inches (± 6.4 mm) is travel of leveling foot)	12.13 \pm 0.25 inches	308.1 \pm 6.4 mm
Feed Rate	0.002 - 0.040 in/rev	0.051 - 1.016 mm/rev
OD: Mounting range *	89.8 - 136.4 inches	2280.9 - 3464.6 mm
Facing diameter range	45 - 120 inches	1143.0 - 3048.0 mm
Milling diameter range	45 - 113.5 inches	1143.0 - 2882.9 mm
Grinding diameter range (w/ feed box)	45 - 118 inches	1143.0 - 2997.2 mm
Grinding diameter range (w/o feed box)	45 - 120 inches	1143.0 - 3048.0 mm
Refer to ID for specifications not listed		
Surface Mount: minimum machining diameter	36.0 inches	914.4 mm
Milling Option: Vertical Stroke, milling head	8 inches	203.2 mm
Rotational Drive System		
Drive type	Pneumatic or hydraulic drive with pinion and internal ring gear	
Pinion gear to ring gear reduction	7.429:1	
Single point turning speed range:		
Pneumatic	5 - 29 RPM	
Hydraulic (based on motor choice)	1.8 - 18 RPM	
Milling & grinding speed ranges (with 150:1 reducer):		
Pneumatic	0.004 - 0.173 RPM	
Feed rate at 120 inch (3048.0 mm) diameter	1.5 - 65.2 inches/minute	38.1 - 1656.1 mm/minute
Hydraulic (based on motor choice)	0.002 - 0.374 RPM	
Power input requirements		
Pneumatic - 3.5 Hp (2.6 kW)	50 ft ³ /min @ 90 psi	1.42 m ³ /min @ 620 kPa
Hydraulic	10 gpm@1200 psi	37.9 L/min @ 8273 kPa
Measures		
For machine dimensions, please refer to dimensional drawings		
ID machine weight, approximate	4000 lb	1814.4 kg
ID machine weight with mill, approximate	4150 lbs	1882.4 kg
OD machine weight, approximate	3775 lb	1712.3 kg
ID machine weight with mill, approximate	3925 lbs	1780.4 kg
Chuck crate dimensions, (for ID and OD machines) (WxDxH)		
Wood, approx.	93 x 40.5 x 40 in	2362 x 1029 x 1016 mm
Metal, approx.	90.2 x 40.2 x 36.2 in	2291 x 1021 x 920 mm
Leg crate dimensions (for ID and OD machines) (WxDxH)		
Wood, approx.	94 x 43.5 x 19 in	2388 x 1105 x 483 mm
Metal, approx.	94.2 x 42.7 x 19.2 in	2393 x 1085 x 488 mm
OD mount hardware crate dimensions (for OD machine only) (WxDxH)		
Wood, approx.	94 x 43.5 x 19 in	2388 x 1105 x 483 mm
Metal, approx.	94.2 x 42.7 x 19.2 in	2393 x 1085 x 488 mm

Testing Data

Flatness at 82 inch (2083 mm) diameter: .0068 inches (0.17 mm)

On a dedicated fixture made of A-36 steel in a controlled environment with single point machine, after warm-up.

* OD mount minimum arm swing is 84.7 inches (2151.4 mm) diameter. An additional customer supplied structure will be required to chuck below the minimum swing diameter with the feedbox attached..

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

The FF8200 can be configured in several ways to meet your specific machining needs.

Select [OPTION 1](#) for [single pointing only](#)

Select [OPTION 2](#) for [milling only](#)

Select [OPTION 3](#) for [BOTH milling and single pointing](#)

OPTION 1: To configure your FF8200 for Single Pointing Only

To configure your machine, please follow these steps.

- 1 Select a Base Package
- 2 Select a Feed Assembly
- 3 Select a Drive Motor Assembly
- 4 Select a Hydraulic Motor
- 5 Select an Optional Grinder Attachment
- 6 Select a Hydraulic Power Unit
- 7 Select a Turning Arm Assembly
- 8 Select a Counterweight Assembly
- 9 Select a Chuck Assembly
- 10 Select a Shipping Container

1 Base Package

Rotary table, tool kit, operator's manual . **58187**

2 Feed Assembly

Pneumatic Feed Assembly with Remote Air Control **58671**

3 Drive Motor Assembly

Pneumatic Motor and Drive Assembly **58186**

(Pneumatic drive system includes: Pneumatic motor w/fittings and mount, rotary union, hoses, feed trip valve, cam, and pneumatic conditioning unit with low pressure drop out.)

Hydraulic Drive Assy w/ Feed Conditioning Unit **58180**

- DOES NOT INCLUDE MOTOR

(Hydraulic drive system includes: Hyd motor mount, hoses, fittings, rotary union, feed trip valve, cam, and feed pneumatic conditioning unit.)

4 Hydraulic Motor for Rotary Table Drive

(If Hydraulic drive is selected in step 3)

Rated at 10 gpm, 1200 PSI

Hydraulic Motor, 14.9 cu in (244.2 cu cm), **69216**
3.6 - 18 RPM

Hydraulic Motor, 18.7 cu in (306.4 cu cm), **69217**
2.8 - 14 RPM

Hydraulic Motor, 24.0 cu in (393.3 cu cm), **69218**
2.2 - 11 RPM

Hydraulic Motor, 29.8 cu in (488.3 cu cm), **69219**
1.8 - 9 RPM

* Multiple units may be ordered.

5 Optional Grinder Attachment

Grinding Attachment for Pneumatic Table Drive Motor **62537**

Grinding Attachment for Hydraulic Table Drive Motor **62570**

Grinder Rotational Gearbox

Slow Rotation Gearbox for Pneumatic Motor **62568**
(gear ratio 150:1)

Slow Rotation Gearbox for Hydraulic Motor **62538**
(gear ratio 150:1)

Grinder Tooling

Grinding Wheel 1.5 in (38.1 mm), CBN 130 Grit **62633**

Grinding Wheel 2.25 in (57.2 mm), CBN 130 Grit **62634**

6 Hydraulic Power Unit

For Hydraulic Drive Machine

[Single Pump \(single pointing only\):](#)

HPU 230V, 10 HP (7.5 kW) Single pump **63264**

HPU 380V, 10 HP (7.5 kW) Single pump **63265**

HPU 415V, 10 HP (7.5 kW) Single pump **63266**

HPU 460V, 10 HP (7.5 kW) Single pump **63267**

HPU 575V, 10 HP (7.5 kW) Single pump **63268**

[Single Pump with Air \(for use with grinder\):](#)

HPU 230V, 10 HP (7.5 kW) Single pump with Air **62759**

HPU 380V, 10 HP (7.5 kW) Single pump with Air **62760**

HPU 415V, 10 HP (7.5 kW) Single pump with Air **62761**

HPU 460V, 10 HP (7.5 kW) Single pump with Air **62762**

HPU 575V, 10 HP (7.5 kW) Single pump with Air **62763**

Pendant Cable and Hose

0.5 in (12.7 mm) Hose and Pendant Cable Assy, **62799**
20 ft (6.1 m)

0.5 in (12.7 mm) Hose and Pendant Cable Assy, **62800**
30 ft (9.1 m)

0.5 in (12.7 mm) Hose and Pendant Cable Assy, **62801**
50 ft (15.2 m)

0.5 in (12.7 mm) Hose and Pendant Cable Assy, **62802**
100 ft (30.5 m)

7 Turning Arm Assembly

Turning Arm Assembly with Single Point Tool Head **57872**

Milling Arm Assembly with Single Point Tool Head **62578**

8 Counterweight Assembly

Counterweight Assembly **58066**

Counterweight Milling Arm Assembly **62515**

9 Chuck Assembly

ID Chuck Assembly **57881**

OD Chuck Assembly **61372**

ID/OD Chuck Assembly **61454**

10 Shipping Container

Wooden Crate for ID Mount Machine **58421**

Metal Container for ID Mount Machine **59936**

Wooden Crate Set for ID/OD Mount Machine **62679**

Metal Container Set for ID/OD Mount Machine **61724**

TOOL CONFIGURATIONS

OPTION 2: To configure your FF8200 for Milling Only

To configure your machine, please follow these steps.

1	Select a Base Package			
2	Select a Drive Motor Assembly			
3	Select a Hydraulic Motor			
4	Select an Optional Grinder Attachment			
5	Select a Hydraulic Power Unit			
6	Select a Turning Arm Assembly			
7	Select a Counterweight Assembly			
8	Select a Milling Head			
9	Select a Hydraulic Motor			
10	Select Tooling			
11	Select a Chuck Assembly			
12	Select a Shipping Container			
1	Base Package			
	Rotary table, tool kit, drag brake assemblies, operator's manual.	62673		
2	Drive Motor Assembly			
	Pneumatic Motor and Drive Assembly (Pneumatic drive system includes: Pneumatic motor w/fittings and mount, gearbox, rotary union, hoses, feed trip valve, and pneumatic conditioning unit with low pressure drop out.)	62571		
	Hydraulic Drive Assy w/Gearbox - DOES NOT INCLUDE MOTOR OR PNEUMATIC SYSTEM (Hydraulic drive system includes: Hyd motor mount, gearbox, hoses, fittings, and rotary union.)	62585		
3	Hydraulic Motor for Rotary Table Drive (If Hydraulic drive is selected in step 2)			
	Rated at 10 gpm, 1200 PSI			
	Hydraulic Motor, 4.9 cu in (80.3 cu cm), 0.1 - 0.35 RPM	69213		
	Hydraulic Motor, 8.0 cu in (131.1 cu cm), 0.05 - 0.20 RPM	69214		
	Hydraulic Motor, 14.9 cu in (244.2 cu cm), 0.02 - 0.11 RPM	69216		
	Hydraulic Motor, 29.8 cu in (488.3 cu cm), 0.012 - 0.06 RPM	69219		
	* Multiple units may be ordered.			
4	Optional Grinder Attachment			
	Grinding Attachment for Pneumatic Table Drive Motor (tool head included)	62948		
	Grinding Attachment for Hydraulic Table Drive Motor (tool head included)	62947		
	Grinder Tooling			
	Grinding Wheel 1.5 in (38.1 mm), CBN 130 Grit	62633		
	Grinding Wheel 2.25 in (57.2 mm), CBN 130 Grit	62634		
5	Hydraulic Power Unit			
	Single Pump (for pneumatic table rotation):			
	HPU 230V, 25HP Single pump with Air	62774		
	HPU 380V, 25HP Single pump with Air	62775		
	HPU 415V, 25HP Single pump with Air	62776		
	HPU 460V, 25HP Single pump with Air	62777		
	HPU 575V, 25HP Single pump with Air	62778		
	Dual Pump (with air) for hydraulic table rotation and hydraulic milling head, and air for grinding attachment:			
	HPU 230V, 25HP Dual Pump with Air	62779		
	HPU 380V, 25HP Dual Pump with Air	62780		
	HPU 415V, 25HP Dual Pump with Air	62781		
	HPU 460V, 25HP Dual Pump with Air	62782		
	HPU 575V, 25HP Dual Pump with Air	62783		
	hydraulic milling head)			
	HPU 230V, 25HP Dual Pump	62784		
	HPU 380V, 25HP Dual Pump	62785		
	HPU 415V, 25HP Dual Pump	62786		
	HPU 460V, 25HP Dual Pump	62787		
	HPU 575V, 25HP Dual Pump	62788		
	Pendant Cable & Hose, Single Pump			
	0.75 in (19.1 mm) Hose and Pendant Cable Assy, 20 ft (6.1 m)	62803		
	0.75 in (19.1 mm) Hose and Pendant Cable Assy, 30 ft (9.1 m)	62804		
	0.75 in (19.1 mm) Hose and Pendant Cable Assy, 50 ft (15.2 m)	62805		
	0.75 in (19.1 mm) Hose and Pendant Cable Assy 100 ft (30.75 m)	62806		
	Pendant Cable & Hose, Dual Pump			
	0.5 in (12.7 mm) & 0.75 in (19.1 mm) Dual Hose & Pendant Cable Assy, 20 ft (6.1 m)	62807		
	0.5 in (12.7 mm) & 0.75 in (19.1 mm) Dual Hose & Pendant Cable Assy, 30 ft (9.1 m)	62808		
	0.5 in (12.7 mm) & 0.75 in (19.1 mm) Dual Hose & Pendant Cable Assy, 50 ft (15.2 m)	62809		
	0.5 in (12.7 mm) & 0.75 in (19.1 mm) Dual Hose & Pendant Cable Assy, 100 ft (30.5 m)	62810		
6	Turning Arm Assembly			
	Milling Arm Assembly (does not include tool head)	72698		
7	Counterweight Assembly			
	Counterweight Milling Arm Assembly	62415		
8	Milling Head			
	Milling Head Assembly Inch #50 Taper NMTB	62282		
	Milling Head Assembly Inch #50 Taper CATV	62734		
	Milling Head Assembly Metric #50 Taper NMTB	62644		
	Milling Head Assembly Metric #50 Taper CATV	62735		
9	Tooling (for inch milling head assembly only)			
	#50, NBTB 4 in (101.6 mm) Face Mill w/ Inserts	47383		
	#50, NBTB 5 in (127.0 mm) Face Mill w/ Inserts	47384		
	#50, NBTB 6 in (152.4 mm) Face Mill w/ Inserts	47385		
	#50, NBTB 8 in (203.2 mm) Face Mill w/ Inserts	47386		
	#50, NBTB 10 in (254.0 mm) Face Mill w/ Inserts	56175		
	Carbide Inserts	47229		
10	Milling Head Swivel Assembly			
	Milling Head Swivel Plate Assembly	63250		
11	Hydraulic Motor for Milling Head			
	Hydraulic Motor Assembly 8.0 cu in (131.1 cu cm)	53459		
	Hydraulic Motor Assembly 9.6 cu in (157.3 cu cm)	53458		
	Hydraulic Motor Assembly 11.9 cu in (195.0 cu cm)	46950		
	Hydraulic Motor Assembly 14.9 cu in (244.2 cu cm)	46375		
	Hydraulic Motor Assembly 18.7 cu in (306.4 cu cm)	46549		
	Hydraulic Motor Assembly 24.0 cu in (393.3 cu cm)	46550		
12	Chuck Assembly			
	ID Chuck Assembly	57881		
	OD Chuck Assembly for Turning with Milling Arm	62666		
	ID/OD Chuck Assembly for Turning with Milling Arm	62674		
13	Shipping Container			
	Wooden Crate for ID Mount Machine	58421		
	Metal Container for ID Mount Machine	59936		
	Wooden Crate Set for ID/OD Mount Machine	62679		
	Metal Container Set for ID/OD Mount Machine	61724		

Dual Pump (for hydraulic table rotation and

TOOL CONFIGURATIONS

OPTION 3: To configure your FF8200 for Milling, or Milling with Single Pointing

To configure your machine, please follow these steps.

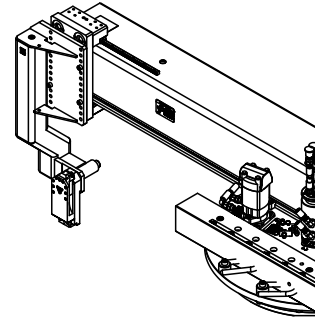
1	Select a Base Package	9	Select a Milling Head	and hydraulic milling head):	
2	Select a Feed Assembly	10	Select a Tooling	HPU 230V, 25HP Dual Pump	62784
3	Select a Drive Motor Assy	12	Select a Chuck Assembly	HPU 380V, 25HP Dual Pump	62785
4	Select a Hydraulic Motor	13	Select a Shipping Container	HPU 415V, 25HP Dual Pump	62786
5	Select an Optional Grinder			HPU 460V, 25HP Dual Pump	62787
6	Select a Hydraulic Power Unit			HPU 575V, 25HP Dual Pump	62788
7	Select a Turning Arm Assembly	1	Base Package	Pendant Cable & Hose, Single Pump	
8	Select a Counterweight Assy			0.75 in (19.1 mm) Hose and Pendant Cable Assy, 20 ft (6.1 m)	62803
	Rotary table, tool kit, drag brake assemblies, operator's manual.	62670		0.75 in (19.1 mm) Hose and Pendant Cable Assy, 30 ft (9.1 m)	62804
2	Feed Assembly			0.75 in (19.1 mm) Hose and Pendant Cable Assy, 50 ft (15.2 m)	62805
	Pneumatic Feed Assembly w/ Remote Air Control	58671		0.75 in (19.1 mm) Hose and Pendant Cable Assy, 100 ft (30.75 m)	62806
3	Drive Motor Assembly			Pendant Cable & Hose, Dual Pump	
	Pneumatic Motor and Drive Assembly (Pneumatic drive system includes: Pneumatic motor w/fittings and mount, gearbox, rotary union, hoses, feed trip valve, cam, & pneumatic conditioning unit with low pressure drop out.)	62591		0.5 in (12.7 mm) & 0.75 in (19.1 mm) Dual Hose & Pendant Cable Assy, 20 ft (6.1 m)	62807
	Hydraulic Drive Assy w/Gearbox & Feed Conditioning Unit - DOES NOT INCLUDE MOTOR (Hydraulic drive system includes: Hyd motor mount, gearbox, hoses, fittings, rotary union, feed trip valve, cam, and feed pneumatic conditioning unit.)	62594		0.5 in (12.7 mm) & 0.75 in (19.1 mm) Dual Hose & Pendant Cable Assy, 30 ft (9.1 m)	62808
4	Hydraulic Motor for Rotary Table Drive (If Hydraulic drive is selected in step 3)			0.5 in (12.7 mm) & 0.75 in (19.1 mm) Dual Hose & Pendant Cable Assy, 50 ft (15.2 m)	62809
	Rated at 10 gpm, 1200 PSI			0.5 in (12.7 mm) & 0.75 in (19.1 mm) Dual Hose & Pendant Cable Assy, 100 ft (30.5 m)	62810
	Fast RPM = Single Point Machining / Slow RPM = Milling			7	Turning Arm Assembly
	Hydraulic Motor, 4.9 cu in (80.3 cu cm), 16 - 56 RPM / 0.1 - 0.35 RPM	69213			Milling Arm Assembly with Single Point Tool Head
	Hydraulic Motor, 8.0 cu in (131.1 cu cm), 8 - 32 RPM / 0.05 - 0.20 RPM	69214		8	Counterweight Assembly
	Hydraulic Motor, 14.9 cu in (244.2 cu cm), 3.6 - 18 RPM / 0.02 - 0.11 RPM	69216			Counterweight Milling Arm Assembly
	Hydraulic Motor, 18.7 cu in (306.4 cu cm), 2.8 - 14 RPM / 0.018 - 0.09 RPM	69217		9	Milling Head
	Hydraulic Motor, 24.0 cu in (393.3 cu cm), 2.2 - 11 RPM / 0.014 - 0.07 RPM	69218			Milling Head Assembly Inch #50 Taper NMTB
	Hydraulic Motor, 29.8 cu in (488.3 cu cm), 1.8 - 9 RPM / 0.012 - 0.06 RPM	69219			Milling Head Assembly Inch #50 Taper CATV
	* Multiple units may be ordered.				Milling Head Assembly Metric #50 Taper NMTB
5	Optional Grinder Attachment				Milling Head Assembly Metric #50 Taper CATV
	Grinding Attachment for Pneumatic Table Drive Motor	62537		10	Tooling (for inch milling head assembly only)
	Grinding Attachment for Hydraulic Table Drive Motor	62570			#50, NBTB 4 in (101.6 mm) Face Mill w/ Inserts
	Grinder Tooling				#50, NBTB 5 in (127.0 mm) Face Mill w/ Inserts
	Grinding Wheel 1.5 in (38.1 mm), CBN 130 Grit	62633			#50, NBTB 6 in (152.4 mm) Face Mill w/ Inserts
	Grinding Wheel 2.25 in (57.2 mm), CBN 130 Grit	62634			#50, NBTB 8 in (203.2 mm) Face Mill w/ Inserts
6	Hydraulic Power Unit				#50, NBTB 10 in (254.0 mm) Face Mill w/ Inserts
	Single Pump (for pneumatic table rotation):				Carbide Inserts
	HPU 230V, 25HP Single pump with Air	62774		11	Milling Head Swivel Assembly
	HPU 380V, 25HP Single pump with Air	62775			Milling Head Swivel Plate Assembly
	HPU 415V, 25HP Single pump with Air	62776		12	Hydraulic Motor for Milling Head
	HPU 460V, 25HP Single pump with Air	62777			Hydraulic Motor Assembly 8.0 cu in (131.1 cu cm)
	HPU 575V, 25HP Single pump with Air	62778			Hydraulic Motor Assembly 9.6 cu in (157.3 cu cm)
	Dual Pump (with air) for hydraulic table rotation, hydraulic milling head, and air for grinding attachment:				Hydraulic Motor Assembly 11.9 cu in (195.0 cu cm)
	HPU 230V, 25HP Dual Pump with Air	62779			Hydraulic Motor Assembly 14.9 cu in (244.2 cu cm)
	HPU 380V, 25HP Dual Pump with Air	62780			Hydraulic Motor Assembly 18.7 cu in (306.4 cu cm)
	HPU 415V, 25HP Dual Pump with Air	62781			Hydraulic Motor Assembly 24.0 cu in (393.3 cu cm)
	HPU 460V, 25HP Dual Pump with Air	62782		13	Chuck Assembly
	HPU 575V, 25HP Dual Pump with Air	62783			ID Chuck Assembly
	Dual Pump (for hydraulic table rotation				OD Chuck Assembly for Milling Arm
					ID/OD Chuck Assembly for Milling Arm
				14	Shipping Container
					Wooden Crate for ID Mount Machine
					Metal Container for ID Mount Machine
					Wooden Crate Set for ID/OD Mount Machine
					Metal Container Set for ID/OD Mount Machine

ACCESSORIES, MACHINE OVERVIEW

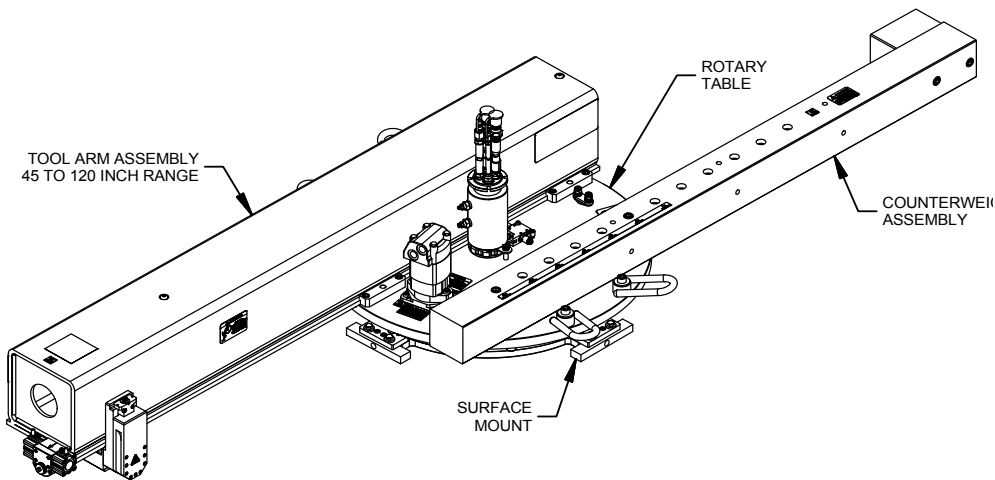
Get even more out of your Flange Facer with these accessories:

- Surface mount PN 79540
- Backfacing attachment PN 69711
(requires milling arm PN 62578 and counterweight arm PN 62527)
- Surface mount retrofit kit PN 80046
(for existing machines)

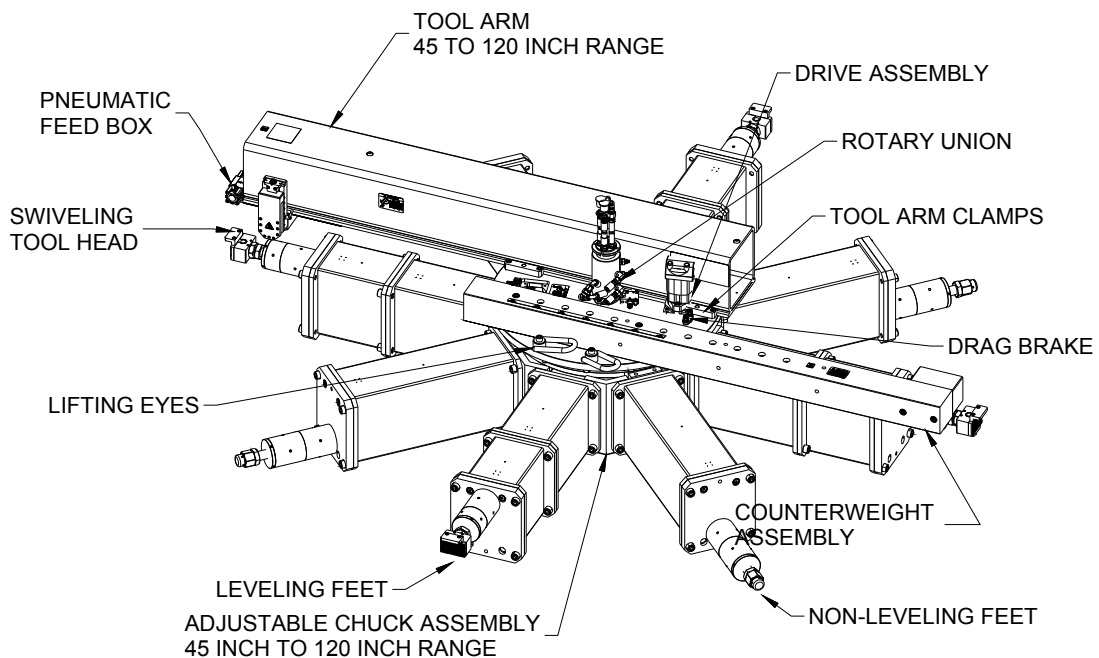
Backfacing Attachment



Machine Overview, Surface Mount Configuration



Machine Overview, ID-Mount Configuration



SETUP AND OPERATION

A Fast Eight-Step Process

This model is so fast and easy to set up that an experienced operator can usually mount the machine into the flange bore, align it, and start cutting in less than an hour. ID-mounting steps shown.

1 Measure the bore diameter. This will be used to determine the leg length.



5 Set machine onto flange using setup fingers. Lightly tighten leveling feet in the flange.



2 Select the appropriate leg length and foot.



6 Extend feet into flange. Indicate, level and tighten leveling feet and stationary feet.



3 Install setup fingers.



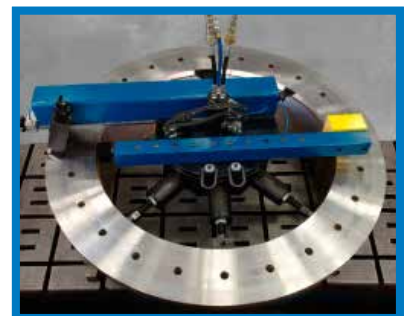
7 Install tool bit. Connect to power.



4 Tighten legs.



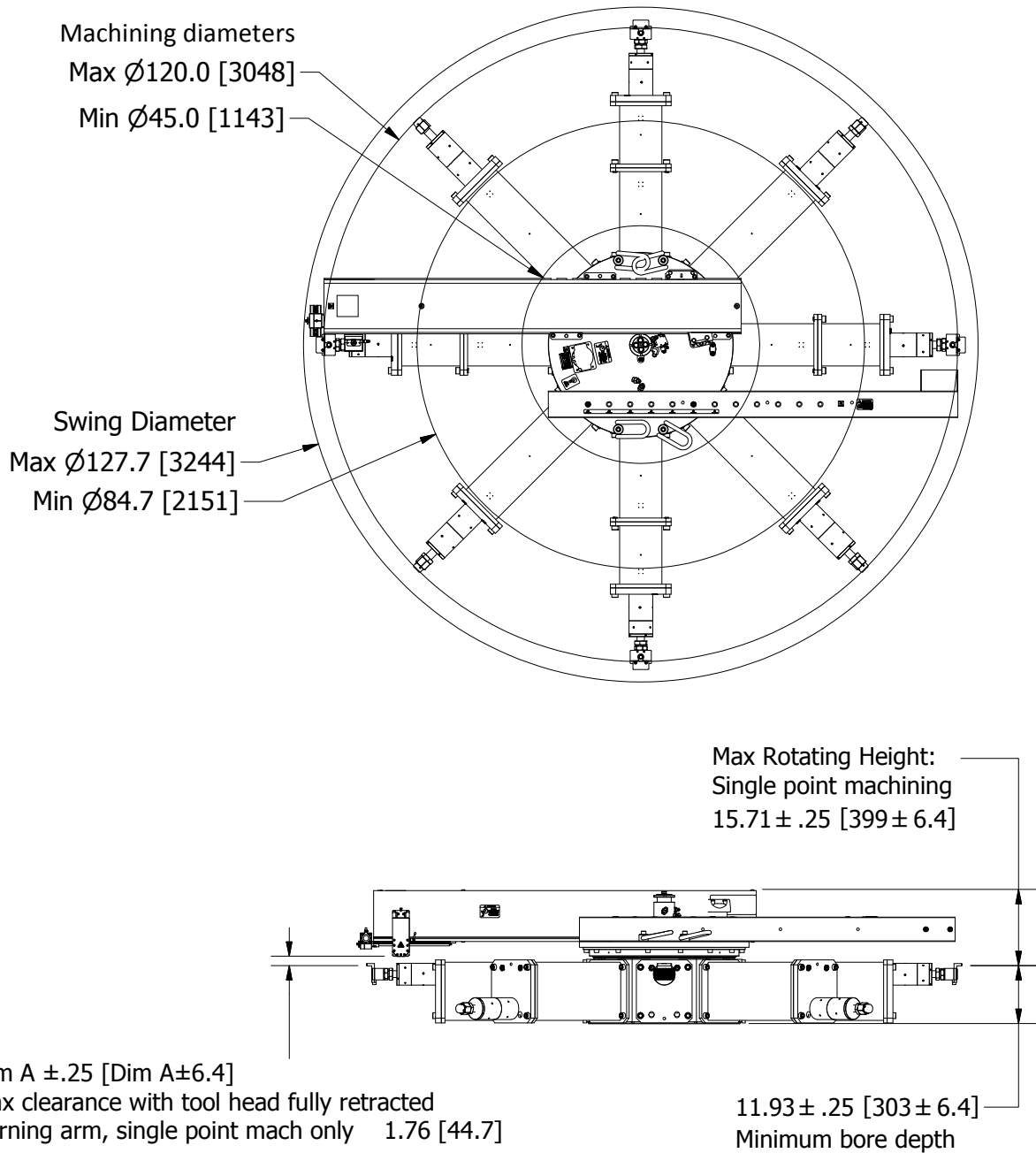
8 You are ready to begin machining!



OPERATIONAL DIMENSIONS

Dimensions in Inch (mm)

ID Chuck Assembly, ID-Mount Configuration, Single-Point Machining

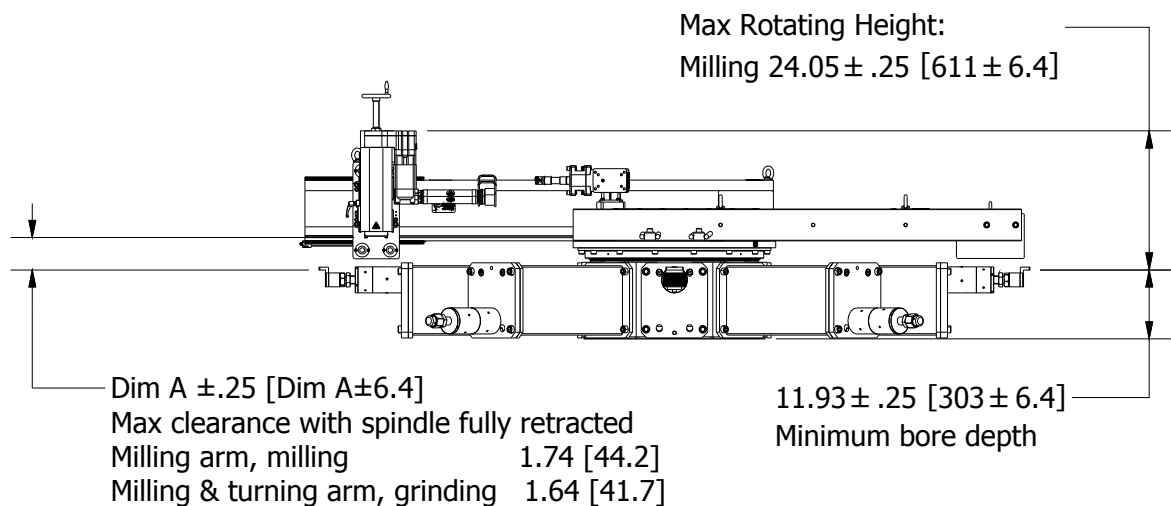
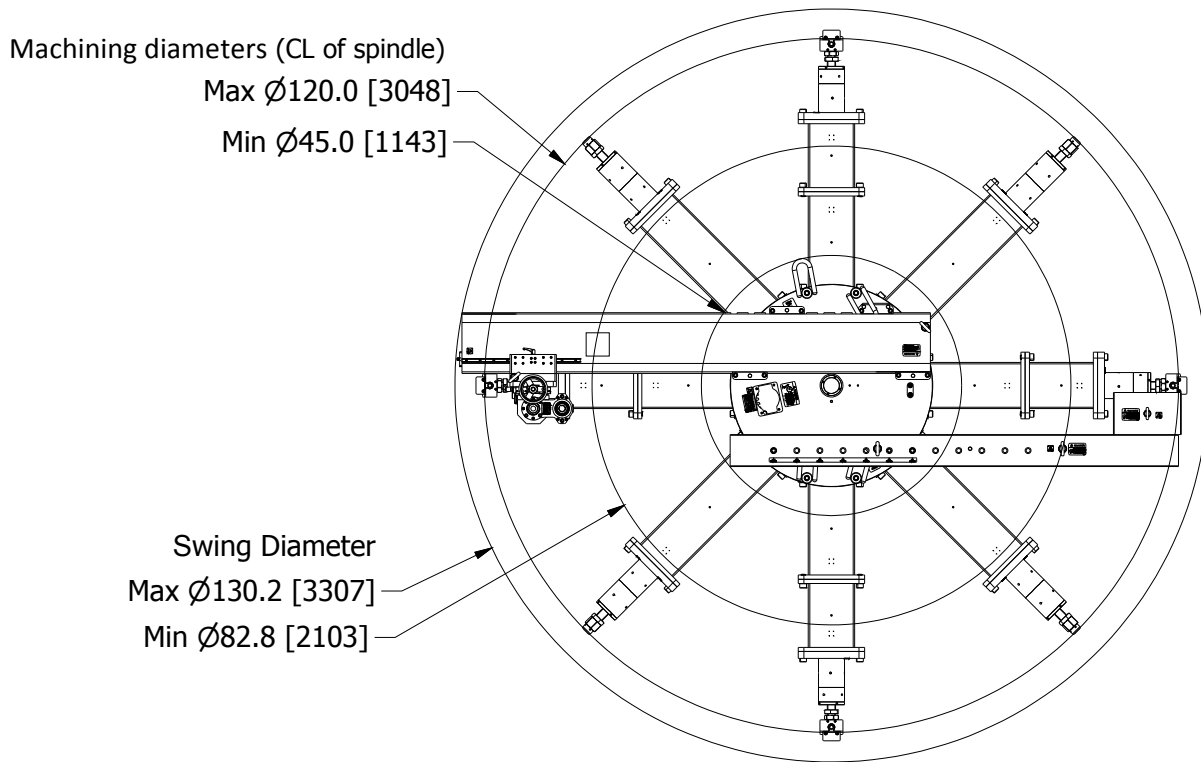


NOTE: $\pm .25$ is travel of leveling foot

OPERATIONAL DIMENSIONS

Dimensions in Inch (mm)

ID Chuck Assembly, ID-Mount Configuration, Milling

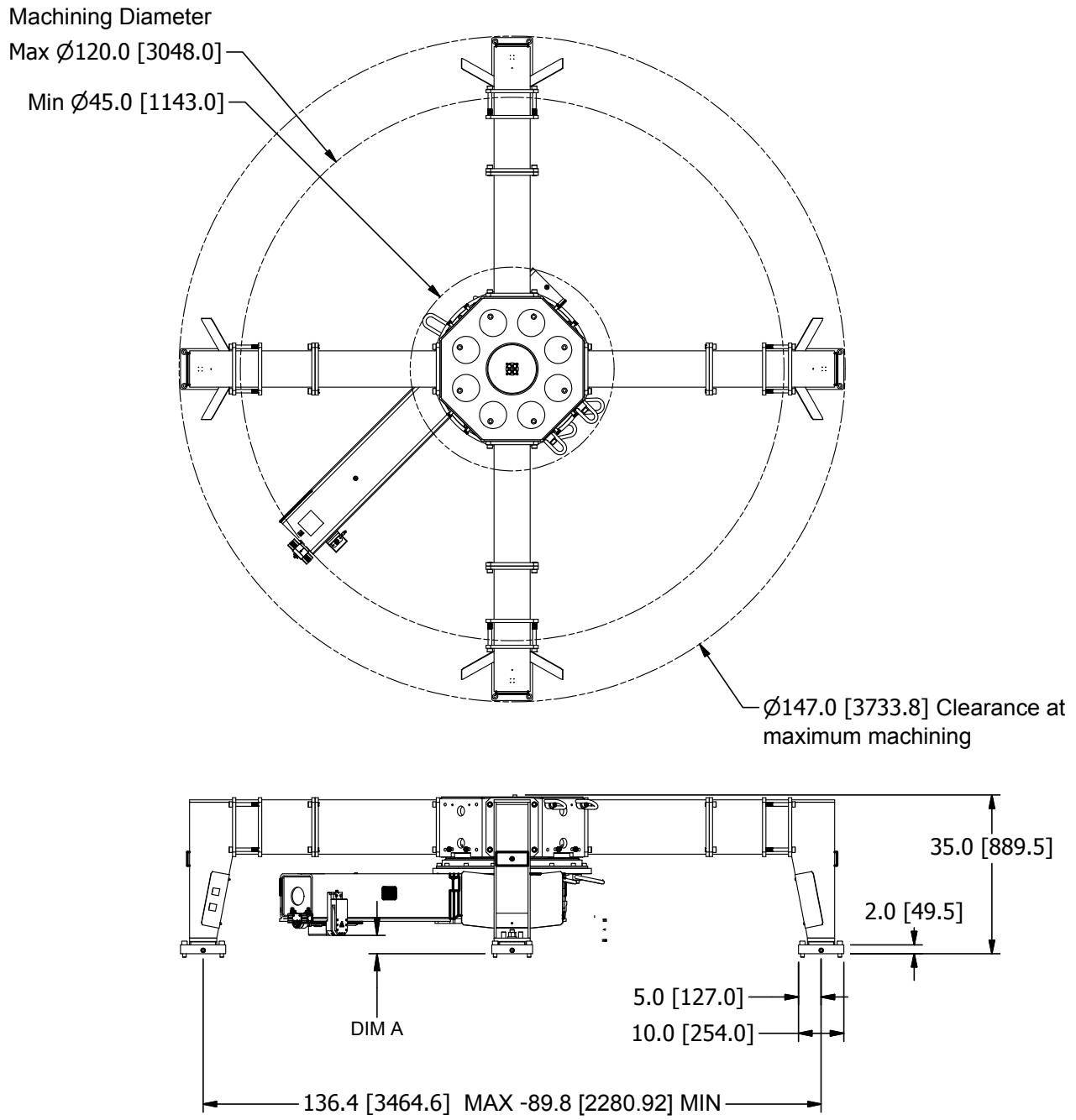


NOTE: $\pm .25$ is travel of leveling foot

OPERATIONAL DIMENSIONS

Dimensions in Inch (mm)

OD Chuck Assembly, OD-Mount Configuration, Single-Point Machining



- Dim A $\pm .25$ [Dim A ± 6.4]
- Max clearance with tool head fully retracted
- Turning arm, single point mach only 4.2 [106.7]
- Milling & turning arm 4.2 [106.7]
- (either milling or single point machining)
- Milling & turning arm, grinding 4.1 [104.1]

OPERATIONAL DIMENSIONS

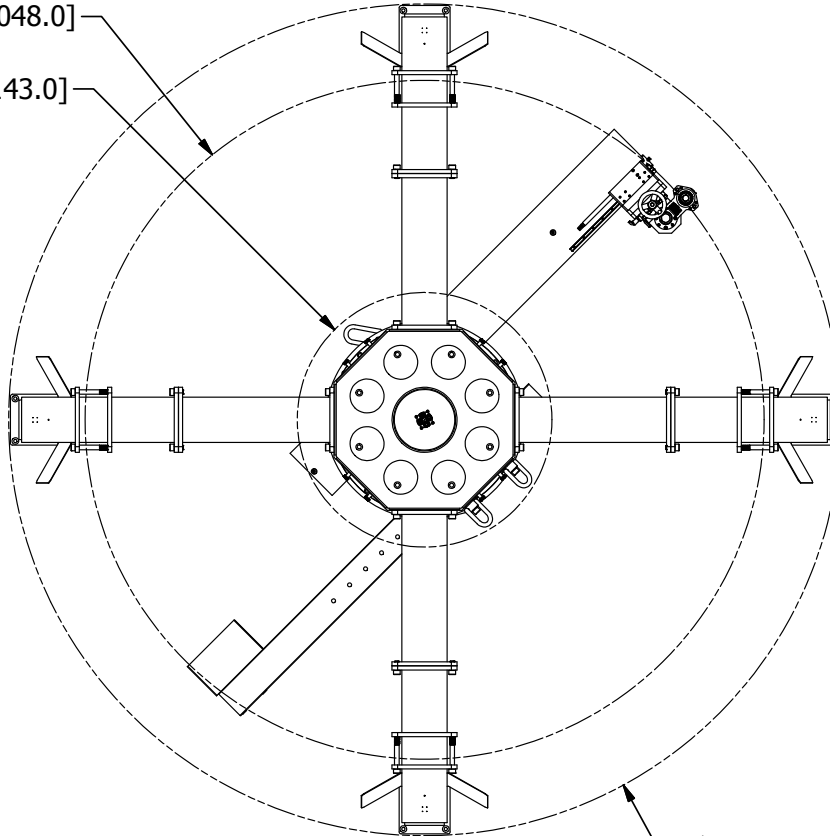
Dimensions in Inch (mm)

OD Chuck Assembly, OD-Mount Configuration, Milling

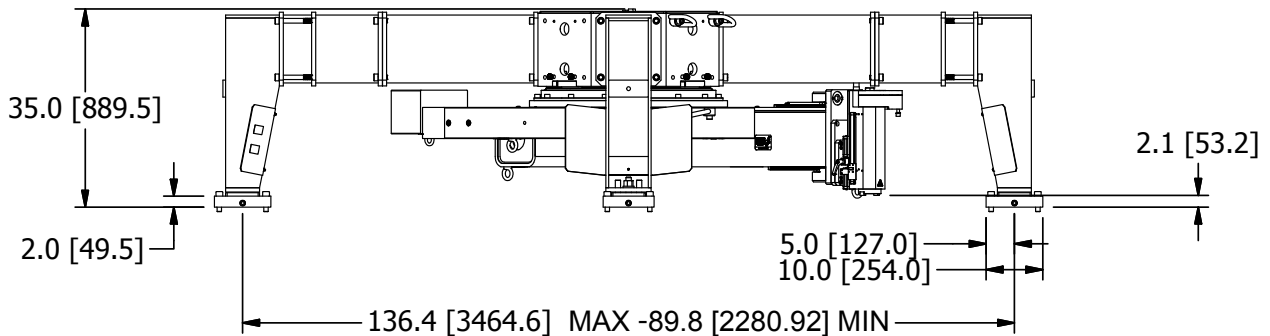
Machining Diameter

Max \varnothing 120.0 [3048.0]

Min \varnothing 45.0 [1143.0]



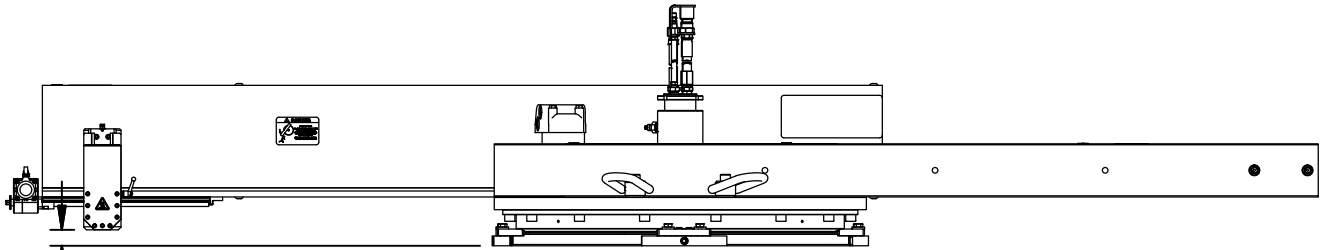
\varnothing 147.0 [3733.8] Clearance at maximum machining



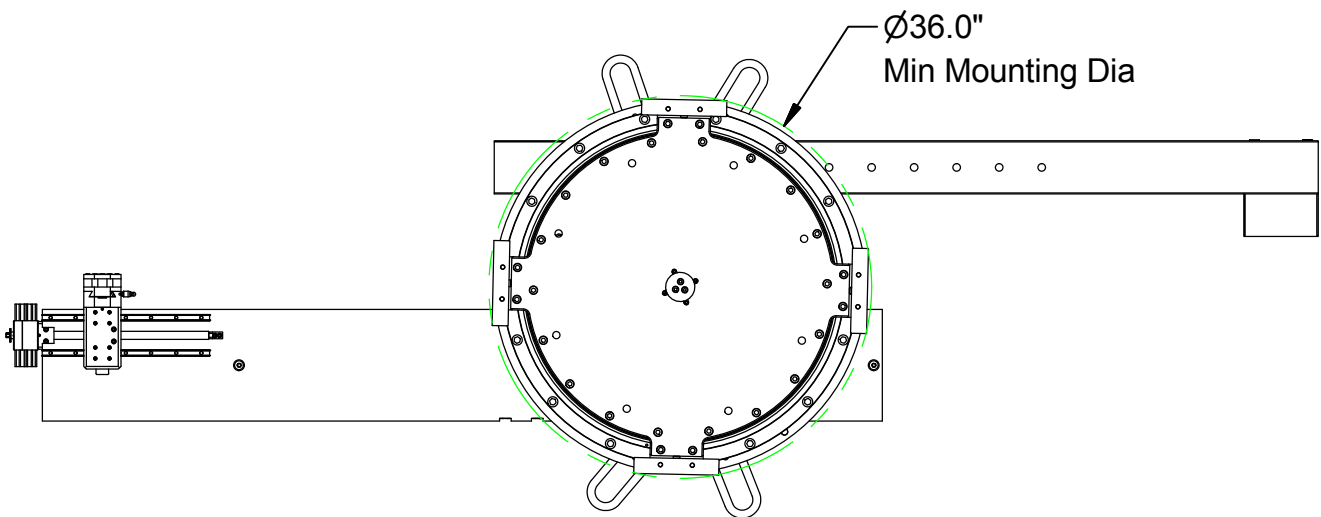
OPERATIONAL DIMENSIONS

Dimensions in Inch (mm)

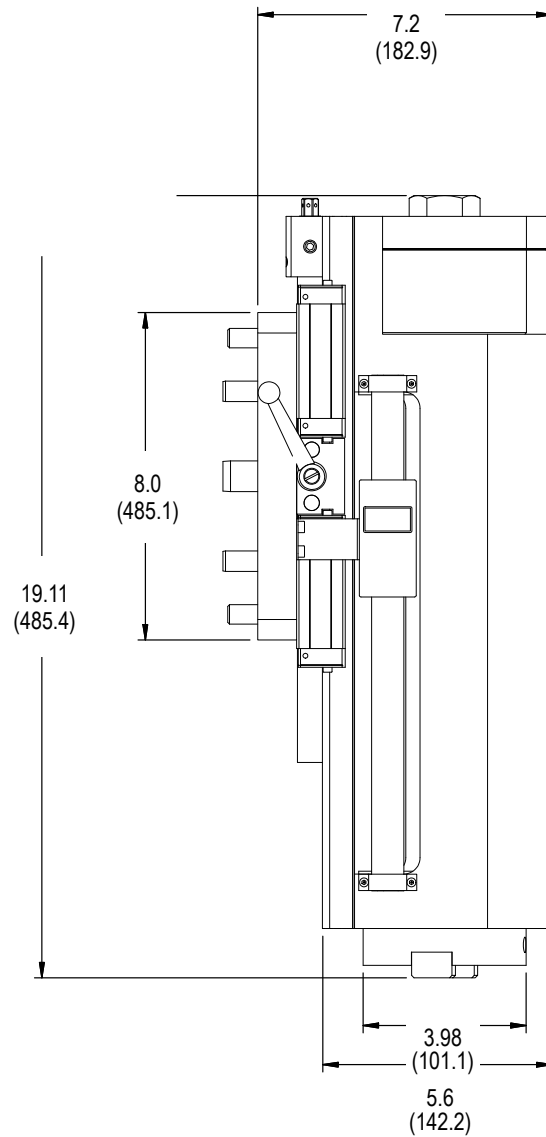
Surface Mount Configuration, Milling



- Clearance with tool head fully retracted
- 1.38" with turning arm, single point only
- 1.36" with milling arm with milling head or single point head
- 1.26" with milling arm or turning arm and grinder



Milling Head Assembly



CLIMAX TRAINING AND SUPPORT

CLIMAX has been teaching the fundamentals and fine points of portable machine tool operation for practically as long as we've been inventing and building the tools.

We offer several training facilities across the United States - the Global Learning Center, situated in our corporate headquarters near Portland, Oregon, our Amherst, New Hampshire Training Facility, and our Houston, Texas Training Facility. All facilities offer training for machine tool operators on safety and machine setup and operation. Trainees also receive technical tips and tools to improve operational efficiencies, with the vast majority of every program devoted to hands-on activities and skill development.

The CLIMAX instructional team includes specialists in shipbuilding, power generation, civil engineering, bridge re-building, petrochemical and other industries.

Whether it's a regularly scheduled course at one of our training facilities, or custom curriculum conducted at your facility, your machinists will benefit from courses developed by some of the most respected authorities in the business.

Call us today to register for a regularly scheduled class, or talk to us about how we can customize a training program for your specialized application.



Call CLIMAX for:

Rentals

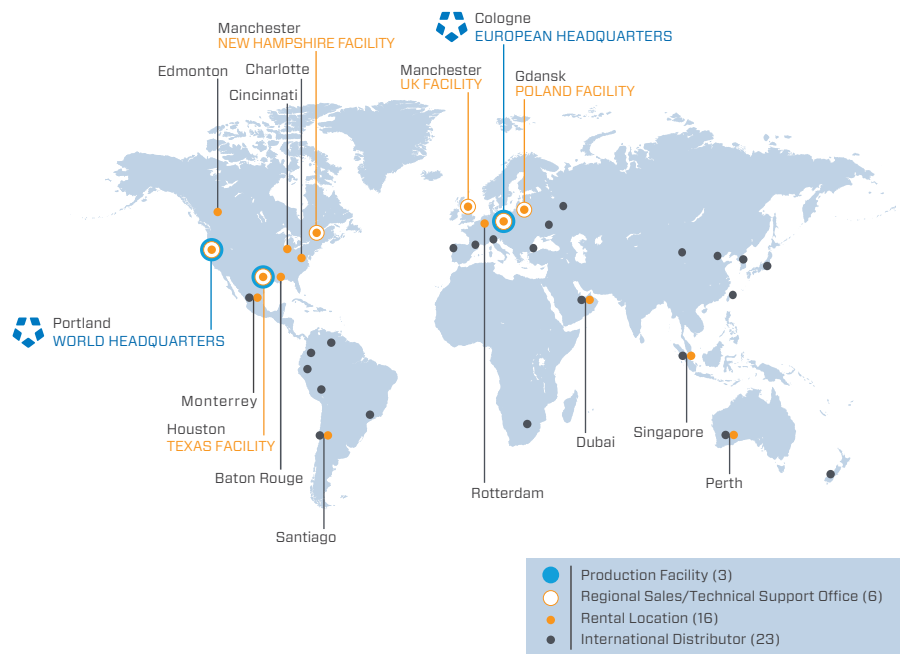
With 16 worldwide rental depot locations, you are never far away from a CLIMAX tool.

On-site Training

Need some refresher courses in setting up and operating your CLIMAX machine tool?

Special Projects

CLIMAX has been solving complicated machining, welding and valve testing problems for our customers since 1964.



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