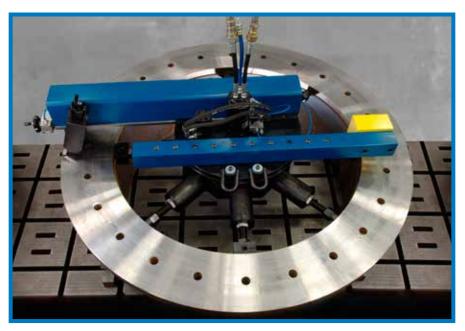
Rugged, Heavy-Duty Flange Facers

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 in. (0.05 - 0.89 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.
- Pneumatic & hydraulic drive options available.



- Chucking system can be removed to allow the flange facer to be facemounted.
- 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.
- Can be mounted ID or surface-mounted.
 Call for custom OD mounting options.
- 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.







	US	Metric
Machine Performance Ranges		
ID: Mounting range Facing diameter range Grinding diameter range	30 - 72 inches 30 - 72 inches 30 - 72 inches	762.0 - 1828.8 mm 762.0 - 1828.8 mm 762.0 - 1828.8 mm
Swing diameter @ minimum with feedbox on end of arm	55.8 inches	1417.3 mm
Radial tool slide travel Axial tool head travel Depth required inside bore for ID chuck (± 0.25 inches (± 6.4 mm) is travel of leveling foot)	12 inches 4 inches 4.03 ± 0.25 inches	304.8 mm 101.6 mm 102.4 ± 6.4 mm
Feed Rate	0.002 - 0.035 in/rev	0.051 - 0.889 mm/rev
Surface Mount: minimum machining diameter Milling Option:	28.0 inches	711.2 mm
Vertical Stroke, milling head	8 inches	203.2 mm
Rotational Drive System Drive type	Pneumatic or hydrau pinion and internal rir	
Pinion gear to ring gear reduction	5.143:1	
Single point turning speed range: Pneumatic Hydraulic (based on motor choice)	12 - 31 RPM 2.4 - 20 RPM	
Milling and grinding speed ranges (with 150:1 reducer): Pneumatic Feed rate at 72 inch (1828.8 mm) diameter	0.006 - 0.25 RPM 1.4 - 58 inches/minut	e 35.6 - 1473.2 mm/minute
Hydraulic (based on motor choice)	0.01 - 0.54 RPM	5 50.5 1175.2 1111/111111111
Power input requirements Pneumatic - 3.5 Hp (2.6 kW) Hydraulic	95 ft³/min @ 90 psi 10 gpm @1200 psi	2.69 m³/min @ 620 kPa 37.9 L/min @ 8273 kPa
Measures For machine dimensions, please refer to dimensional drawings		
D machine weight, approximate Shipping weight, approximate D Crete dimensions (MVDVH)	1500 lbs 2140 lbs	680.4 kg 970.7 kg
ID Crate dimensions (WxDxH) Wood, approx. Metal, approx.	80.5 x 37 x 32 in 90 x 40 x 35 in	2045 x 940 x 813 mm 2286 x 1016 x 889 mm

Testing Data

Flatness at 72 inch (1829 mm) diameter: 0.006 inches (0.15 mm)

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





The FF7200 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 FF7200 for Single-Point Machining Only

	Thom I. To comiguic your 11720010	i onigic-i onit	IVIG	Cilling Cilly	
	configure your machine, please follow these step	OS.		Grinder Rotational Gearbox	
1	Select a Base Package			Slow Rotation Gearbox for Pneumatic Motor	62568
2	Select a Feed Assembly			(gear ratio 150:1)	COE20
3	Select a Drive Motor Assembly			Slow Rotation Gearbox for Hydraulic Motor	62538
4	Select a Hydraulic Motor			(gear ratio 150:1)	
5	Select an Optional Grinder Attachment			Grinder Tooling	00000
6	Select a Hydraulic Power Unit			Grinding Wheel 1.5 in (38.1 mm), CBN 125 Grit	
7	Select a Turning Arm Assembly			Grinding Wheel 2.25 in (57.2 mm), CBN 125 Grit	02034
8 9	Select a Counterweight Assembly		6	Hydraulic Power Unit	
10	Select a Chuck Assembly Select a Shipping Container			For Hydraulic Drive Machine	
10	Select a Shipping Container			Single Pump (single pointing only):	
4	Paga Pagkaga			HPU 230V, 10 HP (7.5 kW) Single pump	63264
1	Base Package	58184		HPU 380V, 10 HP (7.5 kW) Single pump	63265
	Rotary table, tool kit, operator's manual, .	J0104		HPU 415V, 10 HP (7.5 kW) Single pump	63266
2	Feed Assembly			HPU 460V, 10 HP (7.5 kW) Single pump	63267
	Pneumatic Feed Assembly with Remote Air Control	58671		HPU 575V, 10 HP (7.5 kW) Single pump	63268
3	Drive Motor Assembly			Single Pump with Air (for use with grinder):	
J	Pneumatic Motor and Drive Assembly	58186		HPU 230V, 10 HP (7.5 kW) Single pump with Air	62759
	(Pneumatic drive system includes: Pneumatic	00100		HPU 380V, 10 HP (7.5 kW) Single pump with Air	
	motor w/fittings and mount, rotary union,			HPU 415V, 10 HP (7.5 kW) Single pump with Air	
	hoses, feed trip valve, cam, and pneumatic			HPU 460V, 10 HP (7.5 kW) Single pump with Air	
	conditioning unit with low pressure drop out.)			HPU 575V, 10 HP (7.5 kW) Single pump with Air	62/63
	Hydraulic Drive Assy w/ Feed Conditioning Unit	58180		Pendant Cable, Hose	<u></u>
	- DOES NOT INCLUDE MOTOR			0.5 in (12.7 mm) Hose and Pendant Cable Assy,	62799
	(Hydraulic drive system includes: Hyd motor			20 ft (6.1 m)	62000
	mount, hoses, fittings, rotary union, feed trip			0.5 in (12.7 mm) Hose and Pendant Cable Assy, 30 ft (9.1 m)	02000
	valve, cam, and feed pneumatic conditioning u	nit.)		0.5 in (12.7 mm) Hose and Pendant Cable Assy,	62801
1	Hydraulic Motor			50 ft (15.2 m)	02001
4	(If Hydraulic drive is selected in step 3)			0.5 in (12.7 mm) Hose and Pendant Cable Assy,	62802
	Rated at 10 gpm, 1200 PSI			100 ft (30.5 m)	OLOUL
	Hydraulic Motor, 11.9 cu in (195.0 cu cm),	67730		,	
	6 - 31 RPM	0.7.00	7	Turning Arm Assembly	
	Hydraulic Motor, 14.9 cu in (244.2 cu cm),	69216		Turning Arm Assembly with Single Point Tool Head	
	3.6 - 18 RPM			Milling Arm Assembly w/ Single Poiint Tool Head	62577
	Hydraulic Motor, 18.7 cu in (306.4 cu cm),	69217	8	Counterweight Assembly	
	2.8 - 14 RPM			Counterweight Assembly	58063
	Hydraulic Motor, 24.0 cu in (393.3 cu cm),	69218		Counterweight Milling Arm Assembly	62514
	2.2 - 11 RPM		0	Chuak Assambly	
	Hydraulic Motor, 29.8 cu in (488.3 cu cm),	69219	9	Chuck Assembly	57877
	1.8 - 9 RPM			ID Chuck Assembly	3/0//
	* Multiple units may be ordered.		10	Shipping Container	
5	Optional Grinder Attachment			Wooden Crate for ID Mount Machine	58358
J	Grinding Attachment for Pneumatic Table Drive Motor	62537		Metal Container for ID Mount Machine	59304
	Grinding Attachment for Hydraulic Table Drive Motor	62570			
	Simuling Attach into it to it ryuraulic rable brive Motor	OLUI U			

TOOL CONFIGURATIONS

OPTION 2: To configure your FF7200 for Milling Only

OF	PHON 2: To configure your FF /200 for	Milling Only			
То	configure your machine, please follow these step	S.		Dual Pump (for hydraulic table rotation and	
1	Select a Base Package	-		hydraulic milling head)	
2	Select a Drive Motor Assembly			HPU 230V, 25HP Dual Pump	62784
3	Select a Hydraulic Motor			HPU 380V, 25HP Dual Pump	62785
4	Select an Optional Grinder Attachment			HPU 415V, 25HP Dual Pump	62786
5 6	Select a Hydraulic Power Unit			HPU 460V, 25HP Dual Pump	62787
6	Select a Turning Arm Assembly			HPU 575V, 25HP Dual Pump	62788
7	Select a Counterweight Assembly				02700
8	Select a Milling Head			Pendant Cable & Hose, Single Pump	<u></u>
9	Select a Hydraulic Motor			0.75 in (19.1 mm) Hose and Pendant Cable Assy,	02003
10	Select Tooling			20 ft (6.1 m)	
11	Select a Chuck Assembly			0.75 in (19.1 mm) Hose and Pendant Cable Assy,	62804
12	Select a Shipping Container			30 ft (9.1 m)	
1	Base Package			0.75 in (19.1 mm) Hose and Pendant Cable Assy,	62805
		62569		50 ft (15.2 m)	
	operator's manual.	02000		0.75 in (19.1 mm) Hose and Pendant Cable Assy	62806
0	'			100 ft (30.75 m)	
2	Drive Motor Assembly			Pendant Cable & Hose, Dual Pump	
	Pneumatic Motor and Drive Assembly	62571		0.5 in (12.7 mm) & 0.75 in (19.1 mm) Dual Hose	62807
	(Pneumatic drive system includes: Pneumatic			& Pendant Cable Assy, 20 ft (6.1 m)	
	motor w/fittings and mount, gearbox, rotary			0.5 in (12.7 mm) & 0.75 in (19.1 mm) Dual Hose	62808
	union, hoses, feed trip valve, and pneumatic			& Pendant Cable Assy, 30 ft (9.1 m)	
	conditioning unit with low pressure drop out.)			0.5 in (12.7 mm) & 0.75 in (19.1 mm) Dual Hose	62809
	Hydraulic Drive Assy w/Gearbox & Feed	62585		& Pendant Cable Assy, 50 ft (15.2 m)	02000
	Conditioning Unit - DOES NOT INCLUDE MO	ΓOR		0.5 in (12.7 mm) & 0.75 in (19.1 mm) Dual Hose	62810
	(Hydraulic drive system includes: Hyd motor			& Pendant Cable Assy,100 ft (30.5 m)	02010
	mount, gearbox, hoses, fittings, and rotary unio	on.)			
3 1	Hydraulic Motor	6		Turning Arm Assembly	
J 1	(If Hydraulic drive is selected in step 2)			Milling Arm Assembly (does not include tool head)	72697
	Rated at 10 gpm, 1200 PSI	7	7	Counterweight Assembly	
	Fast RPM = Single Point Machining / Slow RPM	I – Milling		Counterweight Milling Arm Assembly	62414
	Hydraulic Motor, 4.9 cu in (80.3 cu cm),	69213 8		Milling Head Assembly Inch #50 Tanas NMTD	62202
	24 - 80 RPM / 0.15 - 0.50 RPM	00044		Milling Head Assembly Inch #50 Taper NMTB	62282
	Hydraulic Motor, 8.0 cu in (131.1 cu cm),	69214		Milling Head Assembly Inch #50 Taper CATV	62734
	16 - 48 RPM / 0.10 - 0.30 RPM	07700		Milling Head Assembly Metric #50 Taper NMTB	
	Hydraulic Motor, 11.9 cu in (195.0 cu cm),	67730		Milling Head Assembly Metric #50 Taper CATV	62/35
	6 - 31 RPM / 0.04 - 0.19 RPM	9		Tooling (for inch milling head assembly only)	
	Hydraulic Motor, 24.0 cu in (393.3 cu cm)	69218		#50, NMTB 4 in (101.6 mm) Face Mill w/ Inserts	47383
	3.2 - 16 RPM / 0.015 - 0.07 RPM			#50, NMTB 5 in (127.0 mm) Face Mill w/ Inserts	47384
	* Multiple units may be ordered.			#50, NMTB 6 in (145.4 mm) Face Mill w/ Inserts	47385
4 (Optional Grinder Attachment			#50, NMTB 8 in (203.2 mm) Face Mill w/ Inserts	47386
	Grinding Attachment for Pneumatic Table Drive Motor	62552		#50, NMTB 10 in (254.0 mm) Face Mill w/ Inserts	
	Grinding Attachment for Hydraulic Table Drive Motor	62588		Carbide Inserts	47229
	(tool head included)	1	10	Milling Head Swivel Assembly	
	Grinder Tooling	ı			63250
	Grinding Wheel 1.5 in (38.1 mm), CBN 125 Grit	62633		Milling Head Swivel Plate Assembly	03230
	Grinding Wheel 2.25 in (57.2 mm), CBN 125 Grit			Hydraulic Motor	
_	. ,	02004		Hydraulic Motor Assembly 8.0 cu in (131.1 cu cm)	
5	Hydraulic Power Unit			Hydraulic Motor Assembly 9.6 cu in (157.3 cu cm)	53458
	Single Pump (for pneumatic table rotation):	00774		Hydraulic Motor Assembly 11.9 cu in (195.0 cu cm)	46950
	HPU 230V, 25HP Single pump with Air	62774		Hydraulic Motor Assembly 14.9 cu in (244.2 cu cm)	46375
	HPU 380V, 25HP Single pump with Air	62775		Hydraulic Motor Assembly 18.7 cu in (306.4 cu cm)	46549
	HPU 415V, 25HP Single pump with Air	62776		Hydraulic Motor Assembly 24.0 cu in (393.3 cu cm)	
	HPU 460V, 25HP Single pump with Air	62777		Chuck Assembly	
	HPU 575V, 25HP Single pump with Air	02110			57877
	Dual Pump (with air) For hydraulic table rotation	,		ID Chuck Assembly	31011
	hydraulic milling head, and air for grinding attack			Shipping Container	
	HPU 230V, 25HP Dual Pump with Air	62779		Wooden Crate for ID Mount Machine	58358
	HPU 380V, 25HP Dual Pump with Air	62780		Metal Container for ID Mount Machine	59304
	HPU 415V, 25HP Dual Pump with Air	62781			
	HPU 460V, 25HP Dual Pump with Air	62782			
	HPU 575V, 25HP Dual Pump with Air	62783			
	•				



OPTION 3: To configure your FF7200 for Milling AND Single Point Machining

To configure your machine, please follow these steps. Select a Base Package				Dual Pump (with air) for hydraulic table rotation, hydraulic milling head, and air for grinding attachment:		
2	Select a Feed Assembly			HPU 230V, 25HP Dual Pump with Air	62779	
3	Select a Drive Motor Assembly					
	Select a Hydraulic Motor			HPU 380V, 25HP Dual Pump with Air	62780	
	Select an Óptional Grinder Attachment			HPU 415V, 25HP Dual Pump with Air	62781	
	Select a Hydraulic Power Unit			HPU 460V, 25HP Dual Pump with Air	62782	
	Select a Turning Arm Assembly			HPU 575V, 25HP Dual Pump with Air	62783	
	Select a Counterweight Assembly			Dual Pump (for hydraulic table rotation and hydra	ıulic	
	Select a Milling Head			milling head):		
0	Select a Hydraulic Motor			HPU 230V, 25HP Dual Pump	62784	
1	Select Tooling			HPU 380V, 25HP Dual Pump	62785	
2	Select a Chuck Assembly			HPU 415V, 25HP Dual Pump	62786	
3	Select a Shipping Container			HPU 460V, 25HP Dual Pump	62787	
	Base Package			HPU 575V, 25HP Dual Pump	62788	
	Rotary table, tool kit, drag brake assemblies,.	62623		Pendant Cable & Hose, Single Pump		
	operator's manual.			0.75 in (19.1 mm) Hose and Pendant Cable Assy,	62803	
	Feed Assembly			20 ft (6.1 m)		
	Pneumatic Feed Assembly w/ Remote Air Control	E0674		0.75 in (19.1 mm) Hose and Pendant Cable Assy,	62804	
		58671		30 ft (9.1 m)	02004	
	Drive Motor Assembly			,	COOLE	
	Pneumatic Motor and Drive Assembly	62591		0.75 in (19.1 mm) Hose and Pendant Cable Assy,	62805	
	(Pneumatic drive system includes: Pneumatic			50 ft (15.2 m)	00000	
	motor w/fittings and mount, gearbox, rotary			0.75 in (19.1 mm) Hose and Pendant Cable Assy,	62806	
	union, hoses, feed trip valve, cam, & pneumatic conditioning unit with low pressure drop out.)			100 ft (30.75 m)		
	Hydraulic Drive Assy w/Gearbox & Feed	62594		Pendant Cable & Hose, Dual Pump		
	Conditioning Unit - DOES NOT INCLUDE	3200 7		0.5 in (12.7 mm) & 0.75 in (19.1 mm) Dual Hose	62807	
	MOTOR (Hydraulic drive system includes:			& Pendant Cable Assy, 20 ft (6.1 m)		
	Hydraulic motor mount, gearbox, hoses,			0.5 in (12.7 mm) & 0.75 in (19.1 mm) Dual Hose	62808	
	fittings, rotary union, feed trip valve, cam,			& Pendant Cable Assy, 30 ft (9.1 m)		
	and feed pneumatic conditioning unit.)			0.5 in (12.7 mm) & 0.75 in (19.1 mm) Dual Hose	62809	
ļ	lydraulic Motor			& Pendant Cable Assy, 50 ft (15.2 m)		
	(If Hydraulic drive is selected in step 3)			0.5 in (12.7 mm) & 0.75 in (19.1 mm) Dual Hose	62810	
	Rated at 10 gpm, 1200 PSI			& Pendant Cable Assy, 100 ft (30.5 m)	320.0	
	Fast RPM = Single Point Machining / Slow RPM = Milling		7			
		69213	7	Turning Arm Assembly	00577	
	Hydraulic Motor, 4.9 cu in (80.3 cu cm), 24 - 80 RPM / 0.15 - 0.50 RPM	U32 IJ		Milling Arm Assembly with Single Point Tool Head	62577	
		60214	8	Counterweight Assembly		
	Hydraulic Motor, 8.0 cu in (131.1 cu cm),	69214		Counterweight Milling Arm Assembly	62526	
	16 - 48 RPM / 0.10 - 0.30 RPM	67720	9	Milling Head	_	
	Hydraulic Motor, 11.9 cu in (195.0 cu cm),	67730		Milling Head Assembly Inch #50 Taper NMTB	62282	
	6 - 31 RPM / 0.04 - 0.19 RPM	20045		Milling Head Assembly Inch #50 Taper CATV	62734	
	Hydraulic Motor, 14.9 cu in (244.2 cu cm),	69216		Milling Head Assembly Metric #50 Taper NMTB	62644	
	4.5 - 24 RPM / 0.03 - 0.15 RPM				62735	
	Hydraulic Motor, 18.7 cu in (306.4 cu cm),	69217		Milling Head Assembly Metric #50 Taper CATV		
	4 - 20 RPM / 0.025 - 0.12 RPM			Optional Milling Head Swivel Plate	63250	
	Hydraulic Motor, 24.0 cu in (393.3 cu cm),	69218	11	Tooling (for inch milling head assembly only)	_	
	3.2 - 16 RPM / 0.02 - 0.1 RPM			#50, NMTB 4 in (101.6 mm) Face Mill w/ Inserts	47383	
	Hydraulic Motor, 29.8 cu in (488.3 cu cm),	69219		#50, NMTB 5 in (127.0 mm) Face Mill w/ Inserts	47384	
	2.4 - 12 RPM / 0.015 - 0.07 RPM			#50, NMTB 6 in (145.4 mm) Face Mill w/ Inserts	47385	
	* Multiple units may be ordered.			#50, NMTB 8 in (203.2 mm) Face Mill w/ Inserts	47386	
,	•					
(Optional Grinder Attachment Grinding Attachment for Procuratio Table Drive Meter	62527		#50, NMTB 10 in (254.0 mm) Face Mill w/ Inserts	56175	
	Grinding Attachment for Pneumatic Table Drive Motor	62537		Carbide Inserts	47229	
	Grinding Attachment for Hydraulic Table Drive Motor	62570	12	Milling Head Swivel Assembly		
	Grinder Tooling			Milling Head Swivel Plate Assembly	63250	
	Grinding Wheel 1.5 in (38.1 mm), CBN 130 Grit	62633	10	Hydraulic Motor for Milling Head		
	Grinding Wheel 2.25 in (57.2 mm), CBN 130 Grit	62634		Hydraulic Motor Assembly 8.0 cu in (131.1 cu cm)	53459	
	Hydraulic Power Unit			Hydraulic Motor Assembly 9.6 cu in (157.3 cu cm)	53458	
	Single Pump (for pneumatic table rotation):			Hydraulic Motor Assembly 11.9 cu in (195.0 cu cm)	46950	
	HPU 230V, 25HP Single pump with Air	62774		Hydraulic Motor Assembly 11.9 cu in (195.0 cu cm)	46375	
	HPU 380V, 25HP Single pump with Air	62775		Hydraulic Motor Assembly 18.7 cu in (306.4 cu cm)		
	HPU 415V, 25HP Single pump with Air	62776		• • • • • • • • • • • • • • • • • • • •	46549	
	HPU 460V, 25HP Single pump with Air	62777	40	Hydraulic Motor Assembly 24.0 cu in (393.3 cu cm)	46550	
	HPU 575V, 25HP Single pump with Air	62778	12	Chuck Assembly		
	, , , , , , , , , , , , , , , , , , , ,			ID Chuck Assembly	57877	
			13	Shipping Container		
				Wooden Crate for ID Mount Machine	58358	

ACCESSORIES, MACHINE OVERVIEW

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

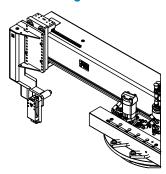
Surface mount PN 79550

Backfacing attachment PN 69711 (requires milling arm PN 62577 and counterweight arm PN 62526)

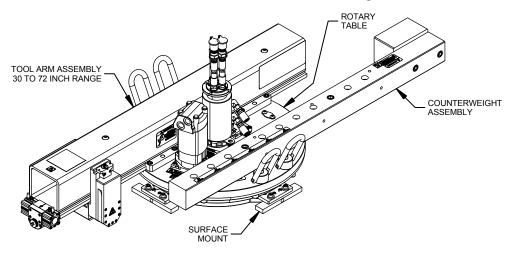
Surface mount retrofit kit (for existing machines)

PN 80045

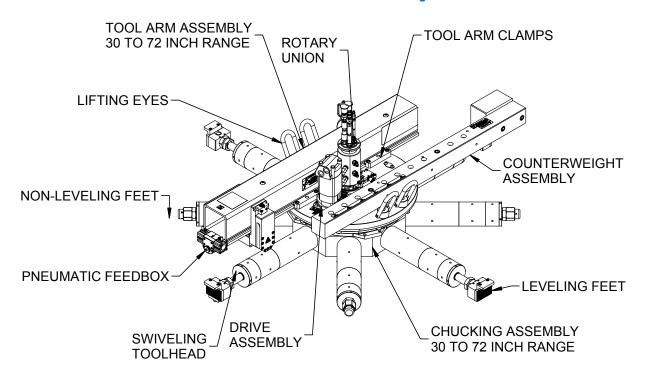
Backfacing Attachment



Machine Overview, Surface Mount Configuration



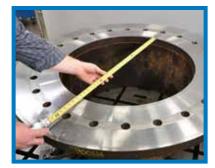
Machine Overview, ID-Mount Configuration



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.

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



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



Select the appropriate leg length and foot.



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



Install setup fingers.



Install tool bit.
Connect to power.



Tighten legs.



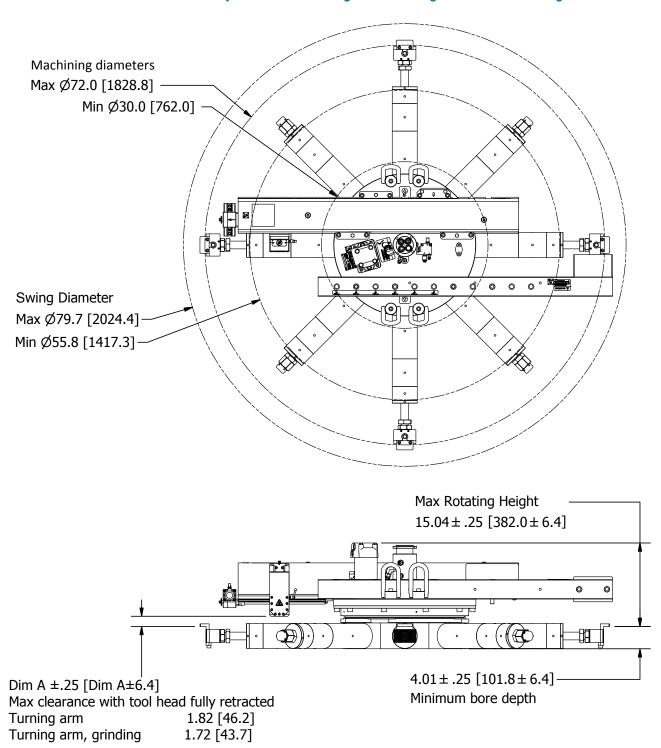
You are ready to begin machining!



OPERATIONAL DIMENSIONS

Dimensions in Inch (mm)

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

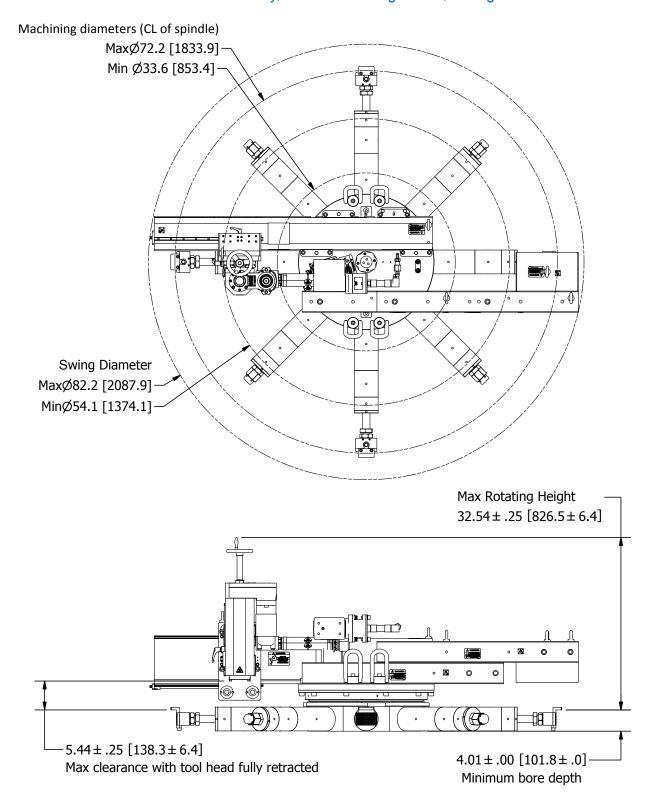


NOTE: ±.25 is travel of leveling foot



Dimensions in Inch (mm)

ID Chuck Assembly, ID-Mount Configuration, Milling

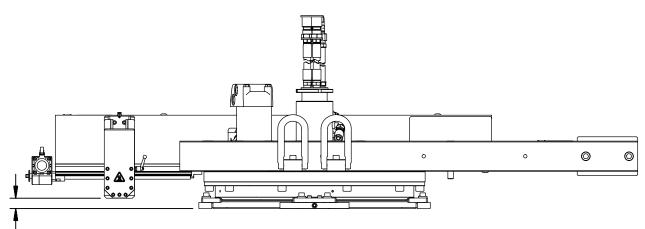


NOTE: ±.25 is travel of leveling foot

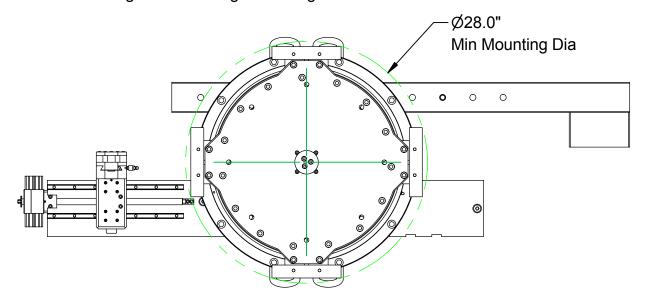


Dimensions in Inch (mm)

Surface Mount Configuration



- -Clearance with tool head fully retracted
- 1.2" with turning arm, single point only
- 1.2" with milling arm with milling head or single point head
- 1.1" with milling arm or turning arm and grinder



CLIMAX Training Facilities

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.



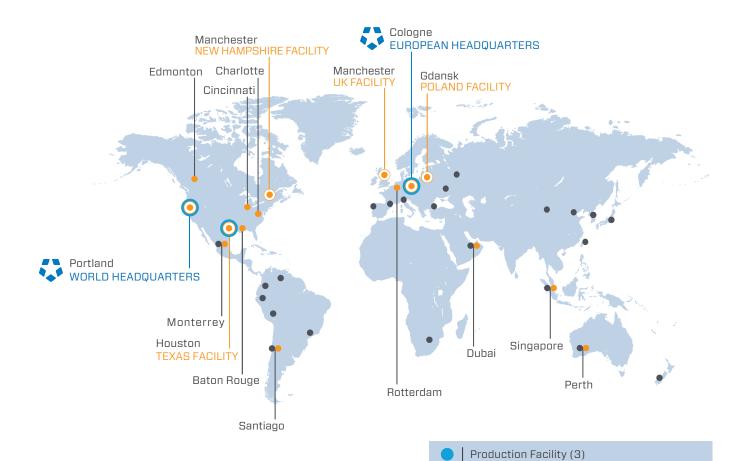
The CLIMAX instructional team includes specialists in shipbuilding, power generation, civil engineering, bridge re-building, petrochemical and other industries.

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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.



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