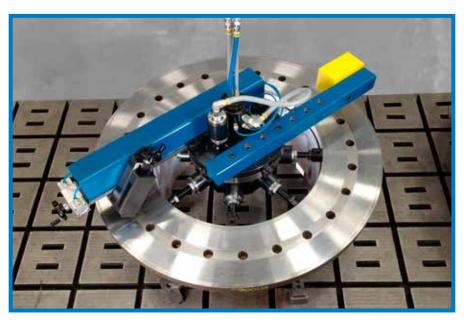
Rugged, Heavy-Duty Flange Facers

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.
- · Can be mounted both OD and ID



- Tool head can be rotated a full 360° (with ID chuck only) providing the ability to create a variety of chamfers, O-Ring grooves, lens rings and other angular surfaces as needed.
- Pneumatic and hydraulic drive option available.
- Chucking system can be removed to allow the flange facer to be facemounted.
- Grinding option available for fine finish work.

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.







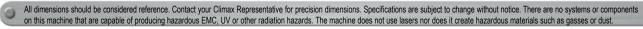
		US	Metric	
Macl	hine Performance Ranges			
ID:	Mounting range	20 - 50 inches	508.0 - 1270.0 mm	
	Facing diameter range	20 - 50 inches	508.0 - 1270.0 mm	
	Grinding diameter range	22 - 50 inches	558.8 - 1270.0 mm	
	Swing diameter @ minimum	40 inches	1016.0 mm	
	with feedbox on end of arm			
	Radial tool 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)	2.75 ± 0.25 inches	69.9 ± 6.4 mm	
	Feed Rate	0.002 - 0.035 in/rev	0.051 - 0.889 mm/rev	
OD:	Mounting range *	42 - 57.1 inches	1066.8 - 1450.3 mm	
	Facing diameter range	20 - 50 inches	508.0 - 1270.0 mm	
	Grinding diameter range (w/ feed box)	22 - 43 inches	558.8 - 1092.2 mm	
	Grinding diameter range (w/o feed box)	22 - 48 inches	558.8 - 1219.2 mm	
	Refer to ID for specifications not listed			
Rota	tional Drive System			
Drive type		Pneumatic or hydraulic drive with		
		pinion and internal ring gea	ar	
Pinic	on gear to ring gear reduction	5.1: 1		
Singl	e point turning speed range:			
	neumatic	7 - 29 RPM		
Hy	ydraulic (based on motor choice)	3.5 - 36 RPM		
	ling speed ranges (with reducer):			
	neumatic	0.006 - 0.25 RPM	(4.472.0 /:- © 4.000.0 di-)	
	rapid only, not in cut) ydraulic (based on motor choice)	(58 ipm @ 72 inch dia.) 0.011 - 0.75 RPM	(1473.2 mm/min @ 1828.8 mm dia.)	
	,	0.011 - 0.75 KFW		
	er input requirements	50 ft3/min @ 00 noi	1.52 m³/min @ 620 kDa	
	neumatic - 3.5 Hp (2.6 kW) ydraulic	50 ft³/min @ 90 psi 10 gpm @1200 psi	1.53 m³/min @ 620 kPa 37.9 L/min @ 8273 kPa	
•	sures	10 gpiii @ 1200 poi	07.3 Emili @ 3270 Ki u	
	machine dimensions, please refer to dimensional drawings			
	achine weight, approximate	735 lbs	333.4 kg	
	machine weight, approximate	925 lbs	419.6 kg	
	rate dimensions (WxDxH)		3	
W	ood, approx.	62.5 x 28 x 27.5 in	1588 x 711 x 699 mm	
M	etal, approx.	60.2 x 25 x 28.5 in	1529 x 635 x 724 mm	
OD o	crate dimensions (WxDxH)			
W	ood, approx.	40 x 38.5 x 20 in	1016 x 978 x 508 mm	
M	etal, approx.	46.5 x 25.3 x 18.3 in	1181 x 643 x 465 mm	
+ 0	5.4			

Testing Data

Flatness at 50 inch (1270 mm) diameter: .0042 inches (.11 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 40 inches (1016 mm) diameter. An additional customer supplied structure will be required to chuck below the minimum swing diameter







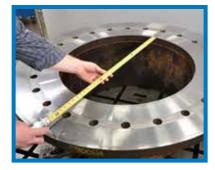
The FF6200 can be configured to meet your specific machining needs.

То	e FF6200 can be configured to meet your configure your FF6200	<u>. </u>	5	Hydraulic Power Unit, continued Single Pump with Air (for use with grinder)		
	configure your machine, please follow these s	steps.		HPU 230V, 10 HP (7.5 kW) single with air	62759	
1 2	Select a Base Package Select a Feed Assembly			HPU 380V, 10 HP (7.5 kW) single with Air	62760	
3	Select a Preed Assembly Select a Drive Motor Assembly			HPU 415V, 10 HP (7.5 kW) single with Air	62761	
4	Select a Hydraulic Motor			HPU 460V, 10 HP (7.5 kW) single with Air	62762	
5.	Select an Optional Grinder Attachment			HPU 575V, 10 HP (7.5 kW) single with Air	62763	
6	Select a Hydraulic Power Unit			Pendant Cable, Hose		
8	Select a Turning Arm Assembly			0.5 in (12.7 mm) Hose and Pendant Cable Assy,	62799	
9	Select a Counterweight Assembly			20 ft (6.1 m)		
0	Select a Chuck Assembly			0.5 in (12.7 mm) Hose and Pendant Cable Assy,	62800	
10	Select a Shipping Container			30 ft (9.1 m)		
1	Base Package		_	0.5 in (12.7 mm) Hose and Pendant Cable Assy, 50 ft (15.2 m)	62801	
2	Rotary table, tool kit, operator's manual	58182		0.5 in (12.7 mm) Hose and Pendant Cable Assy, 100 ft (30.5 m)	62802	
2	Feed Assembly Pneumatic Feed Assembly with Remote Air Control	58671	_			
		JUU1 1	6	Turning Arm Assembly Turning Arm Assembly with Single Point Tool Head	57875	
3	Drive Motor Assembly				01013	
	Pneumatic Motor and Drive Assembly	58189	7	Counterweight Assembly	<u> </u>	
	(Pneumatic drive system includes: Pneumatic motor w/fittings and mount, rotary union, hoses,			Counterweight Assembly	58177	
	feed trip valve, cam, and pneumatic		8	Chuck Assembly		
	conditioning unit with low pressure drop out.)			ID Chuck Assembly	57949	
	Hydraulic Drive Assy with Feed Conditioning Unit	58191		OD Chuck Assembly ID/OD Chuck Assembly	61496 61495	
	**DOES NOT INCLUDE MOTOR **		0	•	01433	
	(Hydraulic drive system includes: Hyd drive system		9	Shipping Container Wooden Crate for ID Mount Machine	58339	
	includes: Hyd motor mount, rotary union, feed trap valve, cam, and feed pneumatic conditioning unit)			Metal Container for ID Mount Machine	59305	
4				Wooden Crate Set for ID/OD Mount Machine	62641	
4	Hydraulic Motor		_	Metal Container Set for ID/OD Mount Machine	61722	
	11.3 cu in (185.2 cu cm), 7 - 36 RPM	58331				
	14.4 cu in (231.1 cu cm), 5.5 - 29 RPM	59911				
	17.9 cu in (293.3 cu cm), 4.5 - 22 RPM	59912				
	22.6 cu in (370.3 cu cm), 3.5 - 17 RPM	58332				
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	62542		PNEUMATIC TOOL ARM FEED BOX 20 TO SO INCH PANCE		
	Motor (gear ratio 160:1) Slow Rotation Gearbox for Hydraulic Motor	60752	FEE	20 TO 50 INCH	RANGE	
	(gear ratio 160:1)	69753			_ROTARY	
	Grinder Tooling		SWIVE		UNION	
	Grinding Wheel 1.5 in (38.1 mm), CBN 125 Grit	62633	- TOOL F	HEAD STATE OF THE		
	Grinding Wheel 2.25 in (57.2 mm), CBN 125 Grit	62634			TOOL ARM	
5	Hydraulic Power Unit		_		CLAMP	
	For Hydraulic Drive Machine					
	Single Pump (single pointing only)					
	HPU 230V, 10 HP (7.5 kW) single	63264				
	HPU 380V, 10 HP (7.5 kW) single	63265	LIFTING			
	HPU 415V, 10 HP (7.5 kW) single	63266	EYE			
	HPU 460V, 10 HP (7.5 kW) single HPU 575V, 10 HP (7.5 kW) single	63267 63268				
	THE O STON, TO THE (T.S KNY) SHINGLE	U3200	LEVELING			
			FOOT	CHILICKING ASSEMBLY	COUNTERWEIGH	
				CHUCKING ASSEMBLY	3 AOOEMBET	
	Overall Machine View					
	Overall Machine view					

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.

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.



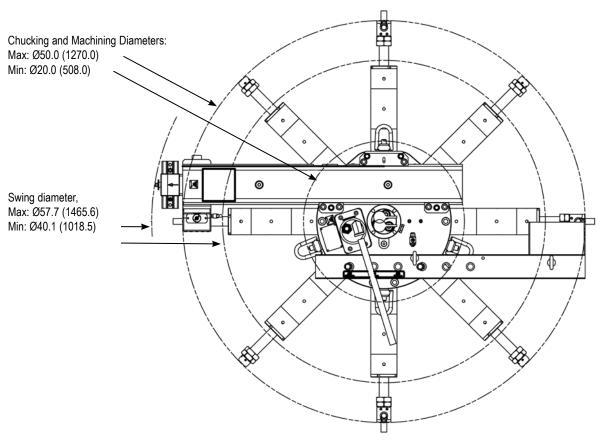
You are ready to begin machining!



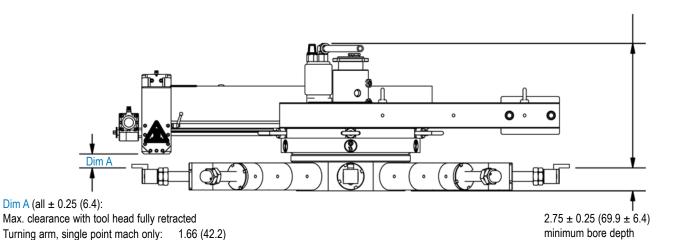


Dimensions in Inch (mm)

ID Chuck Assembly



Max Rotating Height: Single point machining: \emptyset 14.88 \pm 0.25 (378.0 \pm 6.4)



NOTE: ± 0.25 (± 6.4) is travel of leveling foot

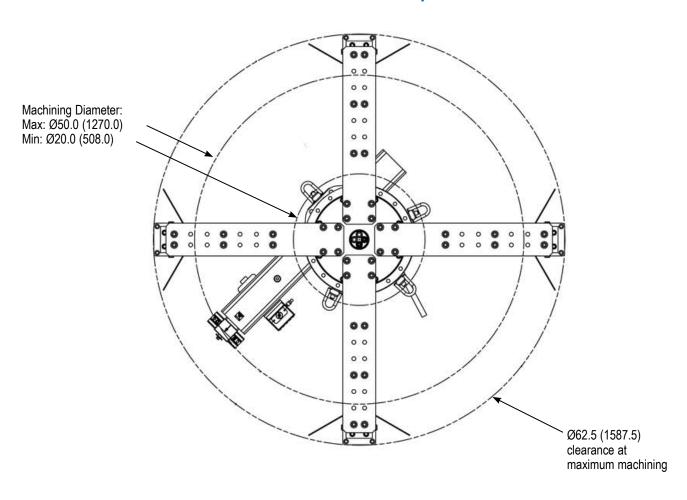
1.5 (38.1)

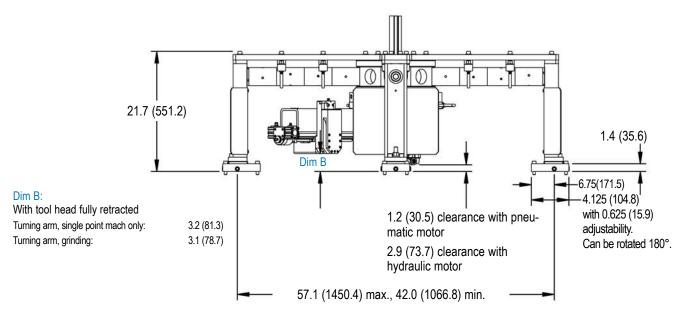
Turning arm, grinding:



Dimensions in Inch (mm)

OD Chuck Assembly





Training at the Global Learning Center

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.

At the Climax Global Learning Center situated in our corporate headquarters near Portland, Oregon, we provide training for machine tool operators on portable machine tool 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 the Global Learning Center, or custom curriculum conducted at your facility, your machinists will benefit from courses developed by some of the most respected authorities in the business.

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