905-727-0014 / 888-847-8880 email: practicaltools@bellnet.ca

BB7100 LINE BORING MACHINE

Packing big boring capability into a compact, modular machine, maximizing efficiency and minimizing downtime.

Powerful Yet Compact

- Take the power of a stationary machine to the job site to solve tough machining challenges in record time.
- Using 11.3 in³ (185 cm³) Hydraulic motor, produces 2280 ft-lbs (3090 N•m) of torque at the bar, at 29 rpm.
- Compact, modular components, many which can be lifted by hand, allow fast, easy setup, maximizing efficiencies, and minimizing downtime.

Versatile and Flexible

- Huge machining range bores from 10.25 -58.25 inches (260.4 - 1479.6 mm) in diameter, and faces from 9.6 - 62.5 inches (243.8 -1587.5 mm).
- ID and End mount bearings feature spherical taper-lock roller bearings.
- End mount can be fine adjusted by +/- 0.625 inches (15.9 mm) to center the bar.
- Optional dual action boring/facing arms increase facing range, and allow for both boring and facing without switching equipment. Full-length square ways on boring/facing arms allow for quick positioning anywhere along the arm. Attaches to the net fit tool carrier by compression-clamping, to provide maximum tool stability.
- Machine is highly adjustable. The tool carrier, half nut, alignment of boring/facing arm, and tool carriage can each be adjusted to maximize machining performance.
- With leading & trailing boring head configuration, 2 boring heads can be used simultaneously.
- For even greater facing range and longer continuous stroke, the new boring/facing arms are available. Setup is quick & easy, featuring industry standard quick-change tooling for both boring and facing operations.



- Highly versatile tool holder block accepts industry standard tooling with a nominal 1 inch (25.4 mm) square shank.
- Tool post on the boring/facing arm can be rotated to provide maximum flexibility in machining setup (including some cantilevered configurations).
- Net fit tool carrier can be clamped to bar for facing operations. For boring operations, carrier can be adjusted to remove clearance between carrier and the bar. This flexibility also ensures maximum rigidity for either operation
- Net fit tool carrier designed with a split frame to simplify installation on the boring bar. It can be configured to use either the boring head set for boring or facing, or the new boring/facing arm assembly.

High Quality Design

- Features a uniquely-designed modular tool carrier which provides a new level of strength and rigidity by channeling machining forces directly to the boring bar through strategicallylocated adjustable guide shoes.
- Chromed bars, straight to within 0.001 inch per foot (0.0254 per 304.8 mm)
- Gun-drilled bars with optical targets available.
- Adjustable, removable half nut increases net fit tool carrier flexibility. Easy removal of tool carrier allows for machining of multiple bores.
- Backlash adjustment nut allows in-the-field adjustment to eliminate backlash in the tool carrier, and extend the life of the machine.





10.25 - 58.25 inches	260.4 - 1479.6 mm
10.25 - 58.25 inches	260.4 - 1479.6 mm
22.1 - 30.5 inches	561.3 - 774.7 mm
	637.5 - 1028.7 mm
	911.9 - 1587.5 mm
12.0 - 57.5 inches	304.8 - 1460.5 mm
	452.1 - 774.7 mm
	452.1 - 1028.7 mm
17.8 - 62.5 inches	452.1 - 1587.5 mm
):	
	243.8 - 442.0 mm
	243.8 - 696.0 mm
9.0 - 49.4 INCNES	243.8 - 1254.8 mm
10.5911 gear reduction	
oducing 2000 psi (13790 kPa	ı) continuous,
l/min).	
3.6 - 17.9 in ³	59.9 - 293.3 cm ³
	1020 - 3930 N•m
	90 - 18 rpm
2280 ft•lb	3090 N•m
29 rpm	29 rpm
0.003 - 0.025 in/rev.	0.076 - 0.635 mm/rev.
	0 0 / -
	0 - 7.6 mm/min.
2.0 - 100 in/min.	50 - 2500 mm/min.
0010 2 lba	010.0 km
	912.8 kg et
iydraulic motor.	J.,
2203 lbs.	999.3 kg
2117.3 lbs.	960.4 kg
draulic motor.)	Ū.
780 lbs.	353.8 kg
5.9 lbs/inch	1.05 kg/cm
	340.2 kg
0/5 IDS	396.9 kg
.	
	610 x 940 x 524 mm
	1099 x 749 x 571.5 mm
	927 x 927 x 432 mm
	381 x 356 x 4013 mm
24 x 45 x 47 INCNES	610 x 1092 x 1194 mm
	12.0 - 57.5 inches 17.8 - 30.5 inches 17.8 - 40.5 inches 17.8 - 62.5 inches 17.8 - 62.5 inches): s on the bar side of the tool pr 9.6 - 17.4 inches 9.6 - 27.4 inches 9.6 - 27.4 inches 9.6 - 49.4 inches 10.59:1 gear reduction oducing 2000 psi (13790 kPa 1/min). 3.6 - 17.9 in ³ 750 - 2900 ft•lb 90 - 18 rpm 2280 ft•lb 29 rpm 0.003 - 0.025 in/rev. 0 - 0.3 in/min. 2012.3 lbs. ed Unit (AFU), boring head se ydraulic motor. 2203 lbs. 2117.3 lbs. draulic motor.) 780 lbs. 5.9 lbs/inch 750 lbs 875 lbs 24 x 37 x 20.6 inches 43.3 x 29.5 x 22.5 inches

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.

Climax Portable Machining & Welding Systems Web site: climaxportable.com

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Configure your BB7100 in nine easy steps.		E Poring Diameter Panaga (select tealing in part start)	
Configure your BB7100 in fille easy steps.		5 Boring Diameter Ranges (select tooling in next step) Stack up blocks, boring diameter range	81251
To configure your BB7100 Boring Machine:		10.25 - 26.25 inches (260.4 - 666.8 mm)	
1 Select a Base Unit		Stack up blocks, boring diameter range 10.25 - 58.25 inches (260.4 - 1479.6 mm)	81252
2 Select an Axial Feed Assembly		6 Boring Heads	
3 Select Bearing Assemblies		Micro adjust boring head	79020
4 Select a Boring Bar		³ / ₄ inch tooling (½ inch ready)*	81246
5 Select Boring Diameter Ranges		Solid tooling boring head, leading & trailing * Multiple units may be ordered for leading & trailing	01240
6 Select Boring Heads 7 Select a Boring/Facing Arm Assembly			
8 Select a Hydraulic Motor		7 Boring /Facing Arm Assembly	
9 Select a Shipping Container		(for use with boring head set)	00000
		Mechanical facing head assy, 4 inch (101.6 mm) Mechanical facing head assy, 6 inch (152.4 mm)	22680 49753
To configure the boring machine you require, simply select the option you need in		Mechanical facing head assy, 6 inch (152.4 mm) Mechanical facing head assy, 8 inch (203.2 mm)	49754
each step, then contact your Climax representative.		Boring/facing arm assembly, 18 inch (457.2 mm)	54258
4 Deve Hall		Boring/facing arm assembly, 23 inch (584.2 mm)	54259
1 Base Unit		Boring/facing arm assembly, 34 inch (863.6 mm)	54260
Rotational drive unit, tool carrier assembly,	54399	* Additional arms may be purchased separately.	
tool kit, and instruction manual.		8 Hydraulic Motor Assembly	
2 Axial Feed Assembly		Hydraulic motor assembly, 3.6 CIR (59 cm ³ /rev)	43453
Mechanical axial feed assembly	42407	90 bar rpm @ 15 gpm**	
Electrical axial feed assembly, 120V	43736	Hydraulic motor assembly, 5.9 CIR (97 cm ³ /rev)	43454
Electrical axial feed assembly, 230V	41563	55 bar rpm @ 15 gpm**	
3 Bearing Assemblies		Hydraulic motor assembly, 7.3 CIR (120 cm ³ /rev)	43455
Spider assembly end bearing support	53711	44 bar rpm @ 15 gpm**	10.150
up to 34.5 inch (876.3 mm) diameter		Hydraulic motor assembly, 8.9 CIR (146 cm ³ /rev)	43456
Spider assy end bearing support with extension	54969	36 bar rpm @ 15 gpm** Hydraulic motor assembly, 11.3 CIR (185 cm ³ /rev)	43457
up to 60 inch (1524.0 mm) diameter	E 400E	29 bar rpm @ 15 gpm**	43437
ID Bearing mount assembly, jack bolt, for ID diameter of 19 - 46 inches (482.6 - 1168.4 mm)	54305	Hydraulic motor assembly, 14.1 CIR (231 cm ³ /rev)	43458
ID Bearing mount assembly, face adjust, for ID	54302	22 bar rpm @ 15 gpm**	
diameter of 19 - 46 inches (482.6 - 1168.4 mm)	J4J02	Hydraulic motor assembly, 17.9 CIR (293 cm ³ /rev)	43459
ID Bearing mount assembly, jack bolt, for ID	54311	18 bar rpm @ 15 gpm**	
diameter of 19 - 72 inches (508.0 - 1828.8 mm)		* Multiple units may be ordered.	
ID Bearing mount assembly, face adjust, for ID	54310	** Theoretical, calculated values shown	
diameter of 19 - 72 inches (508.0 - 1828.8 mm)		9 Shipping Container	
* Multiple units may be ordered.		Plywood hinged crate, 24 x 37 x 20-5/8	28560
4 Boring Bar (5 inch (127 mm) diameter)		(610 x 940 x 524 mm) Metal shipping container 43 x 30 x 23*	54352
Boring bar assembly, 8 ft (243.8 cm)	45211	(1092 x 762 x 584 mm)	04002
Boring bar assembly, 10 ft (304.8 cm)	45039	* Machine components only.	
Boring bar assembly, 12 ft (365.8 cm)	45036	Bars and bearings available in wood only.	
Boring bar assembly, 14 ft (426.7 cm)	45037	5	
Boring bar assembly, 16 ft (487.7 cm)	45038		
Boring bar assembly, 18 ft (548.6 cm)	45287	End Mount Bearing Support Assen	
Boring bar assembly, 20 ft (609.6 cm)	44814	Boring/Facing Counterweight Arm	<u>\</u>
Gun-drilled bars with optical targets:	<i>C 4 C 7</i> 0		1 the
Boring bar assembly, with optics, 8 ft (243.8 cm)	54579		
Boring bar assembly, with optics, 10 ft (304.8 cm) Boring bar assembly, with optics, 12 ft (365.8 cm)	42317 54580		
Boring bar assembly, with optics, 12 ft (305.0 cm) Boring bar assembly, with optics, 14 ft (426.7 cm)	54581	Mirro Adjust Basing Hand	
Boring bar assembly, with optics, 14 if (420.7 cm) Boring bar assembly, with optics, 16 ft (487.7 cm)	54582	Micro-Adjust Boring Head	
Boring bar assembly, with optics, 16 ft (548.6 cm)	54583		
Boring bar assembly, with optics, 20 ft (609.6 cm)	54584		ŭ <i>lar</i> ejo -
* Multiple units may be ordered.	01001	Net Fit Tool Carrier	
matiple ante may be ordered.			
			<u> </u>
			Boring/Facing Arm
	Axial Feed Unit (AFU)		
	(mechanical unit shown)		
	N		
		WHORK W T	
		Rotational Drive Unit (RDU)	

CROTATIONAL Drive Unit (RDU) Hydraulic Motor

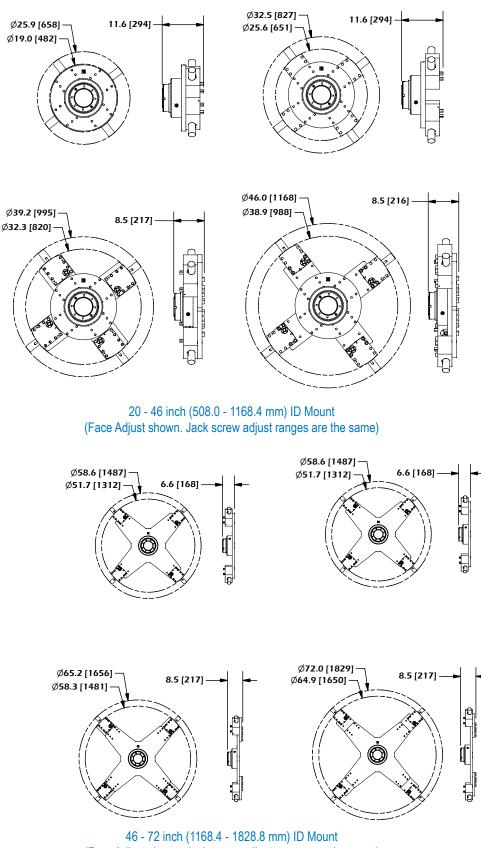
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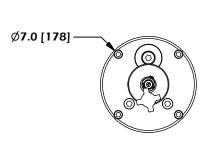
OPERATIONAL DIMENSIONS

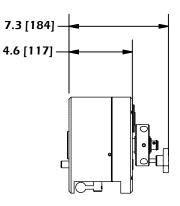
Dimensions in Inch (mm)



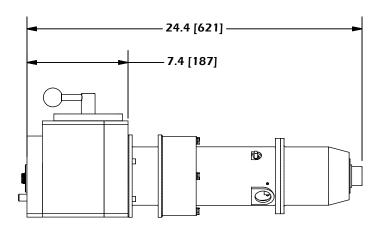
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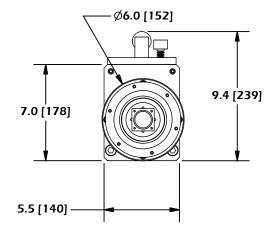
Dimensions in Inch (mm)



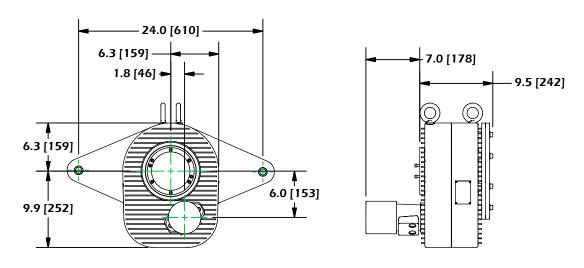


Mechanical Axial Feed Assembly





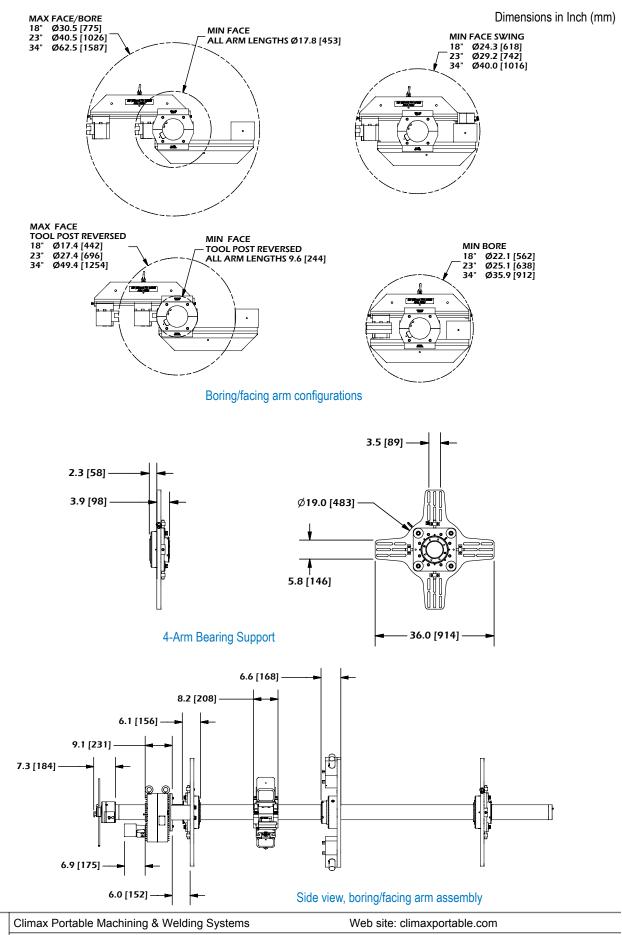




Rotational Drive Unit

Web site: climaxportable.com





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.

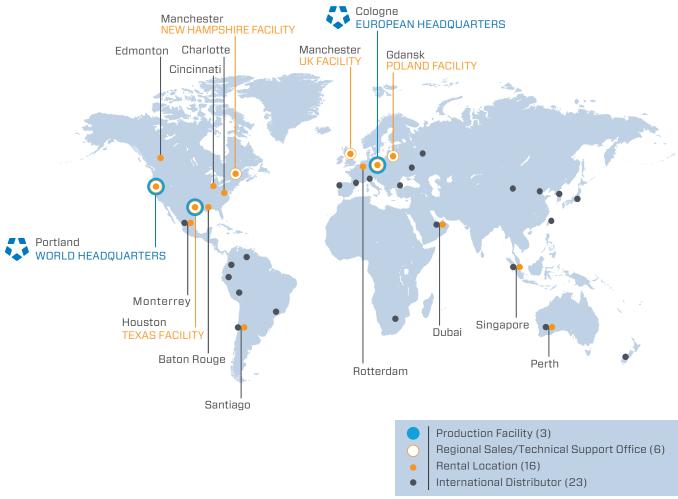
Whether it's a regularly scheduled course at one of our training facilities, or custom curriculum conducted at your facility, your machinists will benefit from courses developed by some of the most respected authorities in the business.

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.



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