

A powerful boring machine that can be customized to suit your needs

The most powerful boring machine in its class, you'll be amazed at the power and flexibility of the BB5000 Portable Boring Machine.

Exclusive, CLIMAX-patented mounting components provide the flexibility to handle tough boring jobs, even when used in cramped, tight workspaces.

Quick and Easy Setup

- Modular components make setup quick and easy.
- Fast and easy setup using high quality cast-iron set-up cones and spherical bearing mounts.
- Patented spherical bearing mounting system allows quick setup, with up to 5° of bearing misalignment.
- Typical set-up time for an experienced operator is 30 minutes or less.

Powerful

- Up to 650 ft-lbs (881 N·m) of torque at the bar – more than any other portable boring machine in its boring range.
- Specially-designed rotational drive unit provides 4:1 or optional 12:1 or worm gear reduction for increased torque at all speeds

Flexible, High Quality Design

- Through-bar design allows the rotational drive and feed unit to be mounted any-where along the bar, even separately.
- Patented heavy-duty spherical bearing mounts ensure rigid attachment to the work piece, for more effective machining.



Versatile

- Highly customizable to meet a variety of needs.
- Available in electric, servo, hydraulic, or pneumatic motor configurations.
- Reversible electric motor.
- Fast, easy two-bolt change-out process to switch motors.
- Available in a variety of bar lengths, from 4 - 24 feet (1219.2 – 7315.2 mm).
- Bars are straightened, and have ½ inch or 12 mm square-broached tooling holes.

- Accessories allow the BB5000 to be used for blind boring, line boring, drilling, facing, and valve repair.
- An interface kit allows attachment and quick alignment of the CLIMAX Auto Bore Welders for efficient bore welding.

Compact

- Extremely compact for ease of use in cramped, tight work spaces.
- Drive & Feed can be mounted between bearings for use in even more confined spaces.





	US	Metric
Operating Ranges:		
Boring Bar Diameter Standard Optional Optional	2.25 inches 1.75 inches 1.25 inches	57.2 mm 44.5 mm 31.8 mm
Boring Diameter Standard Optional	2.5 - 12 inches 1.375 - 24 inches	63.5 - 304.8 mm 34.9 - 609.6 mm
Boring Stroke	12, 24, or 36 inches	304.8, 609.6, or 914.4 mm
Power Options Electric: 8 to 160 free speed bar RPM Servo: up to 230 free speed bar RPM Hydraulic: 10 Hp HPU - 240 free speed bar RPM with 60 Hz mains power - 200 free speed bar RPM with 50 Hz mains power Pneumatic: up to 120 bar free speed RPM	3.35 Hp 4.7 Hp 10 Hp 3.0 Hp	2.5 kW 3.5 kW 7.5 kW 2.2 kW
Mounting Options	Single Arm, Double Arm, Ur	niversal, ID
Rotational Drive Unit	4:1 gear ratio reduction Option 12:1 gear ratio reduc	ction
Set-Up Cones Standard Optional	2.75 - 12 inches 1.375 - 5 inches	70.0 – 304.8 mm 34.9 – 127.0 mm
Feed	Mechanical	Mechanical
Feed Rate per revolution (Infinitely variable and reversible)	0 – 0.018 inches/rev.	0 – 0.46 mm/rev.
Measures Typical Machine Ship Weight (Typical machine with single arm mounts, set-up cones & hydraulic motor)	444 lbs	201 kg
Approximate Boring Bar Ship Weight (Includes metal shipping container)	1.48 lbs/inch	0.264 kg/cm
 Shipping Dimensions (Shipped in 2 containers, 3 containers for hydraulic power unit opti Machine W, D, H Bar 72 inch (1828.8 mm) W, D, H HPU [5 or 10 Hp] W, D, H 	ion.) 52.5 x 27 x 16.5 inches 74.5 x 6.5 x 7 inches 49.5 x 30.5 x 41 inches	1334 x 686 x 419 mm 1892 x 165 x 178 mm 1257 x 775 x 1041 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.

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

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A Fast Six-Step Process

Setup of the BB5000 Portable Boring Machine is quick and easy. An experienced operator can set up the machine in most typical two-bore line boring applications in about half an hour (depending on alignment tolerances). The three main ingredients of the quick setup system are:

Slide the bar through the two holes to be bored and roughly center it with the set-up cones. The set-up cones are forced into the bore with the clamp ring jacking screw and locked onto the bar with a set screw.



Elapsed time: 4 minutes.

· Setup cones to roughly center the bar in the bore.

- · Spherical mounts that can be quickly tack-welded in place.
- Quick-mount rotational drive unit, attaches to spherical mount in seconds

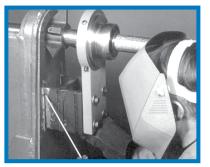
Slide the rotational drive onto the bar. Firmly push it onto the spherical mount, and lock it in place with one bolt. Tighten the rear clamping collar enough to be snug but so the bar can slide through it.

Elapsed time: 4 minutes.



Slide on spherical mounts with tack weld plates, and tack weld them to the workpiece. These mounts have spherical bearings so they can be mounted up to 5° out of perpendicular alignment.

Elapsed time: 10 minutes.



5 The axial feed unit is slipped onto the bar and the leadscrew is screwed into the pocket on the rotational drive unit. Tightening two clamping collars locks the axial feed unit to the bar.

Elapsed time: 3 minutes.



Remove the set-up cones and replace the bar. The set-up cones will adequately center the bar, unless you have very precise tolerances, or need to move the centerline of the bore slightly. Final centering adjustments are made with the jacking screws.

Elapsed time: 5 minutes.



6 Insert a properly ground tool bit into the tool hole in the bar, adjust for depth of cut, and lock in place with the set screw. Connect to power source. Elapsed time: 5 minutes.

And there you are... ready to begin the first boring pass.

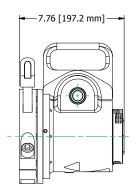
Total elapsed time: 31 minutes.



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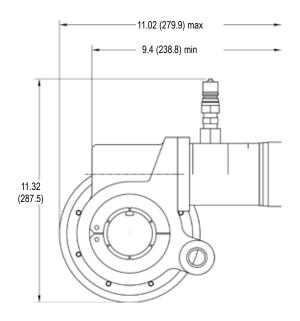
COPERATIONAL DIMENSIONS

Dimensions in Inch (mm)

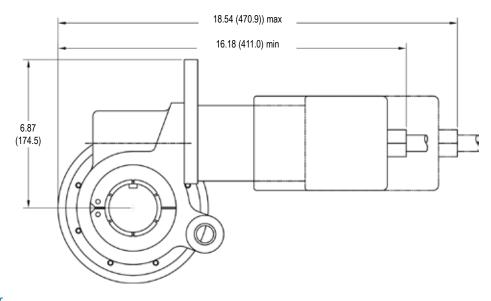


6.91 [175.4 mm]

Rotational drive unit with electric motor



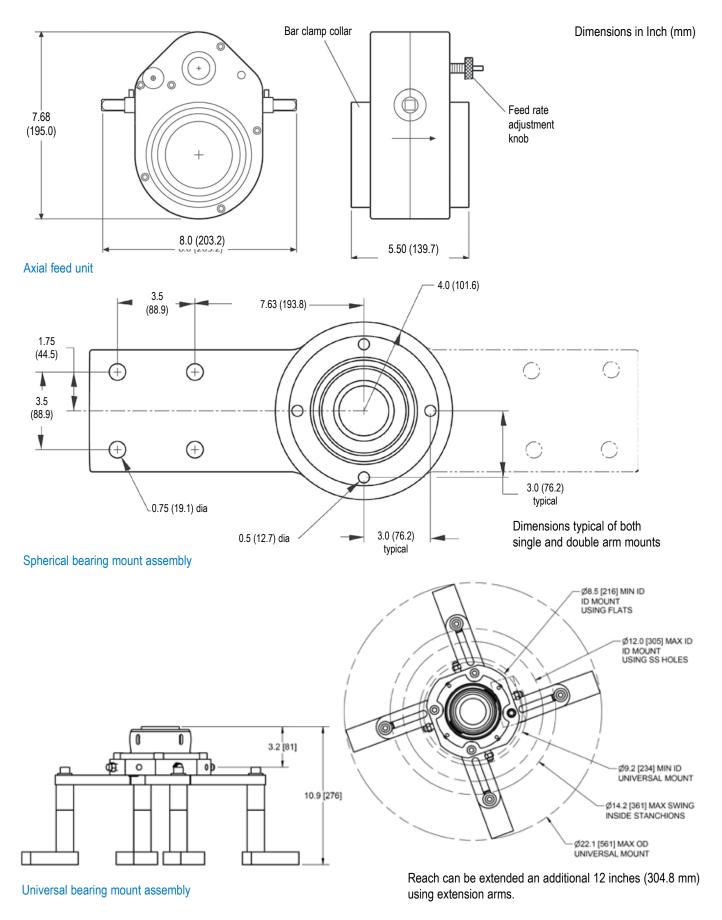
Rotational drive unit with hydraulic motor



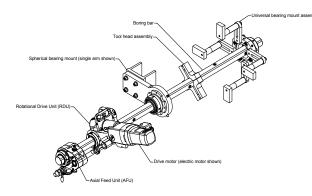
Rotational drive unit with pneumatic motor

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

OPERATIONAL DIMENSIONS



TOOL CONFIGURATIONS



Configure your BB5000 in 8 easy steps:

- Select a Base Unit 1
- 2. Select a Boring Bar
- 3. Select a Drive Motor Option
- 4. Select a Speed Control
- 5. Select a Leadscrew
- 6. Select Setup Cones
- 7. Select a Mounting Option
- Select Optional Small Bore Kit 8.

To generate the correct part number for the boring machine you require, simply select the part number needed in each step, and contact your CLIMAX representative

u contact your cliniar representative.	
Base Unit	
(Includes RDU, AFU, Tool Heads, Tool Kit, Operator's	
Manual and Compartmentalized Metal Container)	
Inch Base Unit, 4:1 RDU	49003
Metric Base Unit, 4:1 RDU	49004
Inch Base Unit, 12:1 RDU for Servo	54499
Metric Base Unit, 12:1 RDU for Servo	54501

Boring Bar (Inch) 2.

1.

Bars are 2-1/4 inch diameter, chrome-plated steel with full length ke	eyway.	
48 inch bar, 1/2 inch tooling holes every 6 inches	39309	
72 inch bar, 1/2 inch tooling holes every 6 inches	39310	
96 inch bar, 1/2 inch tooling holes every 6 inches	41552	
120 inch bar, 1/2 inch tooling holes every 6 inches	43728	
144 inch bar, 1/2 inch tooling holes every 6 inches	43729	
48 inch bar, 1/2 inch tooling holes every 10 inches	34626	
72 inch bar, ½ inch tooling holes every 10 inches	34627	
96 inch bar, 1/2 inch tooling holes every 10 inches	34628	
120 inch bar, 1/2 inch tooling holes every 10 inches	34629	
144 inch bar, ½ inch tooling holes every 10 inches	34630	
*Multiple units may be ordered.		
Boring Bar (Metric)		
Bars are 2-1/4 inch diameter chrome-plated steel with full length ke	ewav.	

baro are 2 74 mort diamotor, ornorne plated steel with half	ongun toyway.
1219.2 mm bar, 12 mm tooling holes every 152.4 mm	43740
1828.8 mm bar, 12 mm tooling holes every 152.4 mm	43741
2438.4 mm bar, 12 mm tooling holes every 152.4 mm	43742
3048.0 mm bar, 12 mm tooling holes every 152.4 mm	43743
3657.6 mm bar, 12 mm tooling holes every 152.4 mm	43744
1219.2 mm bar, 12 mm tooling holes every 254.0 mm	34635
1828.8 mm bar, 12 mm tooling holes every 254.0 mm	34636
2438.4 mm bar, 12 mm tooling holes every 254.0 mm	34637
3048.0 mm bar, 12 mm tooling holes every 254.0 mm	34638
3657.6 mm bar, 12 mm tooling holes every 254.0 mm	34639
*Multiple units may be ordered.	

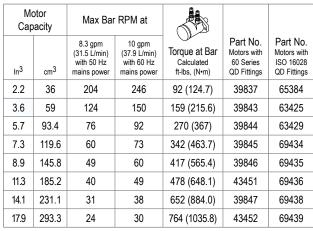
Drive Motor 3.

Electric:

120 VAC, 50/60 Hz, 8/160 bar rpm, 4 speed reversible, CE 230 VAC, 50/60 Hz, 8/160 bar rpm, 4 speed reversible, CE Servo Electric 230V (12:1 RDU) CF

230V (12.1 KDU), OL	J0020
230V (12:1 RDU), non-CE	71071
460V (12:1 RDU), CE	56027
460V (12:1 RDU), non-CE	71072

Hydraulic:



Minimum speed is 20% of the maximum speed

Pneumatic (3 Hp (2.2 kW) includes pneumatic conditioning unit): 57 rpm 234 ft-lbs (317.3 N•m) non-CE 37498 120 rpm 115 ft-lbs (155.9 N•m) non-CE 39112 * Multiple units may be ordered.

Controller (all are CE compliant) 4.

120V Controller, NEMA L5-30P ** 120V Controller, 150 309/CEE 17 ** 230V Controller, CEE 7/7 SCHUKO ** 230V Controller, NEMA L6-15P **



**If a different type of electrical plug is required, the end user must replace these standard plugs in the field.

5. Leadscrew

6.

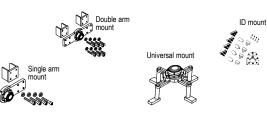
12 inch (304.8 mm) leadscrew
24 inch (609.6 mm) leadscrew
36 inch (914.4 mm) leadscrew
* Multiple units may be ordered

Setup Cones (cast iron, for 2-1/4 inch dia. bars) Small setup cones (2.75 - 8.37 inches)

Large setup cones (8.37 - 12 inches) Full set of setup cones (2.75 - 12 inches)

7. Mounting Option

Single arm mount (1) (for 2-1/4 inch dia. bars) Double arm mount (1) (for 2-1/4 inch dia. bars) Universal mount (1) (for $2-\frac{1}{4}$ inch dia. bars) ID mount (1) (for 2-1/4 inch dia. bars) * Multiple units may be ordered.



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



28654 28687 28688

26507

26508

26383

37472

37473 36959

46293

88008 88009

56026



8. **Optional Small Bore Components**

If selecting Small Bore components, please select from the following, Bars

If selecting Small Bore components, please select from the selected separately.	e followin	g. B
AFU & RDU Collets & Drive Key		
Collets for 1- $\frac{1}{4}$ inch bar (inch) Collets for 1- $\frac{1}{4}$ inch bar (metric) Collets for 1- $\frac{3}{4}$ inch bar (inch) Collets for 1- $\frac{3}{4}$ inch bar (metric)	48999 49000 49001 49002	G
1-¼ inch Boring Bar for Kit (inch)		
36 inch bar, $\frac{3}{6}$ inch tooling holes every 6 inches 48 inch bar, $\frac{3}{6}$ inch tooling holes every 6 inches 72 inch bar, $\frac{3}{6}$ inch tooling holes every 6 inches 96 inch bar, $\frac{3}{6}$ inch tooling holes every 6 inches 48 inch bar, $\frac{3}{6}$ inch tooling holes every 10 inches 72 inch bar, $\frac{3}{6}$ inch tooling holes every 10 inches 96 inch bar, $\frac{3}{6}$ inch tooling holes every 10 inches 120 inch bar, $\frac{3}{6}$ inch tooling holes every 10 inches 144 inch bar, $\frac{3}{6}$ inch tooling holes every 10 inches * Multiple units may be ordered.	40925 39308 43693 39447 37337 37338 37339 37340 37341	
1-¼ inch Boring Bar for Kit (metric)		
914.4 mm bar, 10 mm tooling holes every 152.4 mm 1219.2 mm bar, 10 mm tooling holes every 152.4 mm 1828.8 mm bar, 10 mm tooling holes every 152.4 mm 2438.4 mm bar, 10 mm tooling holes every 152.4 mm 1219.2 mm bar, 10 mm tooling holes every 254.0 mm 1828.8 mm bar, 10 mm tooling holes every 254.0 mm 2438.4 mm bar, 10 mm tooling holes every 254.0 mm 3048.0 mm bar, 10 mm tooling holes every 254.0 mm 3657.6 mm bar, 10 mm tooling holes every 254.0 mm * Multiple units may be ordered.	43688 43687 43686 43685 37327 37328 37329 37330 37331	
1- ³ / ₄ inch Boring Bar for Kit (inch)		
36 inch bar, ½ inch tooling holes every 6 inches 48 inch bar, ½ inch tooling holes every 6 inches 60 inch bar, ½ inch tooling holes every 6 inches 72 inch bar, ½ inch tooling holes every 6 inches 96 inch bar, ½ inch tooling holes every 6 inches 48 inch bar, ½ inch tooling holes every 10 inches 60 inch bar, ½ inch tooling holes every 10 inches 72 inch bar, ½ inch tooling holes every 10 inches 96 inch bar, ½ inch tooling holes every 10 inches 96 inch bar, ½ inch tooling holes every 10 inches 120 inch bar, ½ inch tooling holes every 10 inches 144 inch bar, ½ inch tooling holes every 10 inches * Multiple units may be ordered.	43288 43311 43312 43313 43314 43318 43319 43320 43321 43322 43323	
1- ³ / ₄ inch Boring Bar for Kit (metric)		
914.4 mm bar, 12 mm tooling holes every 152.4 mm 1219.2 mm bar, 12 mm tooling holes every 152.4 mm 1524.0 mm bar, 12 mm tooling holes every 152.4 mm 1828.8 mm bar, 12 mm tooling holes every 152.4 mm 2438.4 mm bar, 12 mm tooling holes every 152.4 mm 1219.2 mm bar, 12 mm tooling holes every 254.0 mm 1828.8 mm bar, 12 mm tooling holes every 254.0 mm 1524.0 mm bar, 12 mm tooling holes every 254.0 mm	43297 43298 43299 43300 43301 43305 43306 43307	
1324.0 min bai, 12 min tooling holes every 234.0 mm	40007	

2438.4 mm bar, 12 mm tooling holes every 254.0 mm 43308 3048.0 mm bar, 12 mm tooling holes every 254.0 mm 43309 3657.6 mm bar, 12 mm tooling holes every 254.0 mm 43310 * Multiple units may be ordered.

3/8 inch Tooling Kits (for 1-1/4 inch bars)

HSS 0 degree and 15 degree lead angles (3 lengths)	37502
0.98, 1.3 and 1.8 inches	
HSS 15 degree lead angle (3 lengths)	49008
1.3, 1.8 and 2.2 inches	
Cemented carbide 0 and 15 degree lead angle	49009
Cemented carbide 15 degree lead angle (3 lengths)	49010
1 3 1 8 and 2 2 inches	



-		
HSS 0 degree and 15 degree lead angles (3 lengths) 25, 33 and 46 mm	49011	
HSS 15 degree lead angle (3 lengths) 25, 33 and 46 mm	49012	
Small Bore Kit Bearing Collets 1-¼ inch (31.8 mm) bearing collet (each) 1-¾ inch (44.5 mm) bearing collet (each)	26719 26722	
Small Bore Kit Setup Cones For 1-½ to 3-¼ inch (38.1 to 82.6 mm) - aluminum	26263	

43383

ACCESSORIES

Small Bore Components for Your BB5000:

For 1-3/4 inch (44.5 mm) bar - cast iron

Small Bore Kits Without Bars

60654	1-1/4 inch dia	ameter small bore kit includes the following:
	48999	RDU collet with drive key, AFU collet
	26719	(4) bearing collets
	26263	set of aluminum set up cones
60630	1-1/4 inch dia	ameter small bore kit includes the following:
	48999	RDU drive collet with drive key, AFU collet
	26719	(4) bearing collets
	26263	set of aluminum set up cones
	26656	1-¼ inch alignment tool for BoreWelder
63933	1-¾ inch dia	ameter small bore kit includes:
	49001	RDU collet with drive key & AFU collet
	26722	(4) bearing collets
	43383	Small cast iron set up cones for 1-3/4 inch bar
63934	1-¾ inch di	ameter small bore kit includes:
	49001	RDU collet with drive key & AFU collet
	26722	(4) bearing collets
	43383	Small cast iron set up cones for 1-3/4 inch bar
	36062	1-¾ inch alignment tool for BoreWelder
Sleeve Set	S	
Include rota	ational drive	collet with drive key, axial feed collet, and two ,
bearing col	lets every be	aring requires a collet). All collets include retain-

ing snap rings.

28698 1-1/4 inch (31.8 mm) diameter small bore collet set (for use with 2-1/4 inch (57.2 mm) diameter components. RDU collet with drive key, AFU collet, (2) bearing collet. 44614 1-1/4 inch (31.8 mm) diameter small bore collet set (for use with 2 inch (50.8 mm) diameter components.) RDU collet with drive key, AFU collet, (2) bearing collet 44091 1-3/4 inch (44.5 mm) diameter small bore collet set (for use with 2-1/4 inch (57.2 mm) diameter components) RDU collet with drive key, AFU collet, (2) bearing collet **Other Small Bore Components** 26263 Set of (2) aluminum set-up cones, 1.5 - 3.25 inch (38.1 - 82.6 mm) diameter, for 1-1/4 inch (44.5 mm) diameter bar 43383 Set of (2) cast iron set-up cones, 2.0 - 6.0 inch (50.8 - 152.4 mm) diameter, for 1-3/4 inch (31.8 mm) diameter bar 26719 (2) bearing collets for 1-1/4 inch inch dia. bar 26722 (2) bearing collets for 1-3/4 inch dia. bar 26728 snap ring for 2-1/4 inch (57.2 mm) diameter components 31612 Snap ring for 2 inch (50.8 mm) diameter components 28699 RDU collet with key for 1-1/4 inch diameter bar 28989 RDU collet with key for 1-3/4 inch diameter bar 36317 RDU collet for 2 inch diameter bar 26720 AFU collet for 1-1/4 inch diameter bar 26723 AFU collet for 1-3/4 inch diameter bar 36312 AFU collet for 2 inch diameter bar

Configurations shown represent standard options. Please contact us for special fixturing, CNC Control options, or other features that may be needed for your specific machining application. We look forward to working with you!

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No. Description

Automated Bore Welders

Add an Automated Bore Welder to your BB5000 Boring Machine with the convenient bore welder interface kit. Attach the bore welder to the BB5000's mounting fixture to ensure perfect alignment for both welding and machining. A single setup for both welding and machining saves time, and helps get the job done quickly. (All bore welders include welding head, torches, mounting rod & radial mount, torch extensions, conduit switch assembly, tips, nozzles, diffuser, and liner. See table below to compare other features & components.)

BoreWelding Interface Kit (See the CLIMAX BoreWelder product literature for details)

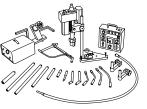
26518 36062 26656

Complete interface kit for 2-1/4 inch (57.2 mm) diameter bar. Alignment tool only for 1-3/4 inch (44.5 mm) diameter bar.

BW3000 AutoBoreWelde

Alignment tool only for 1-1/4 inch (31.8 mm) diameter bar





	Welding Dia.	Facing Torch	Wire Feeder	Auto-Skip
Model	Inch (mm)	Option	Included	Included
	0 88 - 12.0			
BW1000	(22.4 - 304.8)	No	No	No
	0.88 - 13.0			
BW3000	(22.4 - 330.2)	Yes	Yes	Yes

Mechanical Axial Feed Assembly

Mounts anywhere on the bar. Reversible ratchet feed mechanism has variable feed rate up to 0.19 inches (0.48 mm) per revolution. Feeds the tool and bar by moving

along the stationary leadscrew. Adjustable clamp collars on both ends clamp unit to the bar. Includes auto stop.

The Heavy Duty AFU is designed with an adjusting shaft and a heavy duty feed adjustment knob to reduce damage from handling. The integral roller bearing clutches allow the feed clutches to last longer, while the heavier springs and minimal mass cam arms allow the system to

work at higher speeds, similar to the servo powered RDU. 28636 Standard AFU for 2-1/4 inch (57.2 mm) diameter bar.

91518 Heavy Duty AFU for 2-1/4 inch (57.2 mm) diameter bar

Standard AFU for 2.0 inch (50.8 mm) diameter bar 29908

Rotational Drive Assembly

Mounts anywhere on the bar. Features heavy-duty cast aluminum housing, Timken roller bearings, and sealed, lifetime lubrication. Clamp ring mounts assembly to spherical bearings with one bolt.



Part Number.	Generation	Worm Gear Reduction	Accepts Bar Dia.	Key Size
49684	4th	4:1	2-1/4 inch	³ ⁄8 inch
29910	3rd	4:1	2 inch	1/4 inch
65620	4th	4:1	2 inch	1/4 inch
34028	3rd	4:1	2 inch	8 mm
65678	4th	4:1	2 inch	8 mm
53165	4th	12:1	2-1/4 inch	³ ⁄8 inch

Electric Motor Assembly

Description

Assembly includes four-speed variable electric motor and mounting

flange

88008 120 VAC, 50/60 Hz, 8/160 bar rpm, 4 speed reversible, CE.

88009 230 VAC, 50/60 Hz, 8/160 bar rpm, 4 speed reversible, CE



No.

120V Controller, NEMA L5-30P ** 88037 120V Controller, 150 309/CEE 17 ** 88038 230V Controller, CEE 7/7 SCHUKO ** 88035 88036 230V Controller, NEMA L6-15P **

**If a different type of electrical plug is required, the end user must replace these standard plugs in the field.

Electric Servo Motor Assembly



Compact, lightweight servo drive system provides 3 - 230 RPM of variable speed and up to 443.7 ft-lbs (601.2 N•m) of torque at the bar, providing the power of a hydraulic power unit in a ultra quiet, quick to set up package. Includes 12:1 RDU.

54321	Electric servo motor, 230V, CE compliant	71079, Non-CE compliant			
52876	Electric servo motor, 460V, CE compliant	71080, Non-CE compliant			
Hudraulia Mater Assembly					

Hydraulic Motor Assembly



Reversible hydraulic motor and SAE 2-bolt mounting flange to mount to the rotational drive housing. Motor ports are 1/8 - 14 SAE O-ring type. 1/2 inch dripless quick-connect fitting kit installed. Bar rpm's are max at 6 gpm (22.7 L/min). (For 50 Hz power units, reduce the bar rpm by 15%; bar torque remains the same.) Also available with 3/8 inch (9.5 mm) fitting kits.

Motor Capacity		Max Bar RPM at				
In ³	cm ³	8.3 gpm (31.5 L/min) with 50 Hz mains power	10 gpm (37.9 L/min) with 60 Hz mains power	Torque at Bar, - Calculated - ft-lbs, (N•m)	Part No. Motors with 60 Series QD Fittings	Part No. Motors with ISO 16028 QD Fittings
2.2	36	204	246	92 (124.7)	39837	65384
3.6	59	124	150	159 (215.6)	39843	63425
5.7	93.4	76	92	270 (367)	39844	63429
7.3	119.6	60	73	342 (463.7)	39845	69434
8.9	145.8	49	60	417 (565.4)	39846	69435
11.3	185.2	40	49	478 (648.1)	43451	69436
14.1	231.1	31	38	652 (884.0)	39847	69438
17.9	293.3	24	30	764 (1035.8)	43452	69439
Minimum speed is 20% of the maximum speed						

Hydraulic Power Unit

10 Hp (7.5 kW) 10 gpm (37.9 L/min) units with 3-phase electric motor, with variable displacement pump, allow speed control without sacrificing torque. Many models available. Please ask a CLIMAX representative for details.



Pneumatic motor assembly

The 3 Hp (2.2 kW) motor comes complete, ready for 2-bolt mounting directly on the rotational drive. Does not include pneumatic conditioning unit.

	Part Number.	Max Bar RPM	Torque at the bar (calculated value)
	28614 (CE)	120 rpm	115 ft-lb (155.9 N•m)
	28697 (CE)	57 rpm	234 ft-lb (317.3 N•m)

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



Description No.

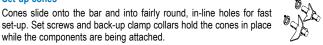
Axial leadscrew assembly Stationary leadscrew assembly is fixed in position by screwing it into nut holds leadscrew in place. Includes leadscrew and two Acme nuts.

Leadscrews available in lengths below. Other lengths available by request.

	0
28654	12 inch (304.8 mm) travel
28687	24 inch (609.6 mm) travel
28688	36 inch (914.4 mm) travel
39335	48 inch (1219.2 mm) travel

28756 Leadscrew tack weld block

Set-up cones



while the components are being attached. 26263 Set of 2 aluminum set-up cones, 1.5 - 3.25 inch (38.1 - 82.6 mm) bore ID. Fit 1-1/4 inch (31.8 mm) diameter bars.

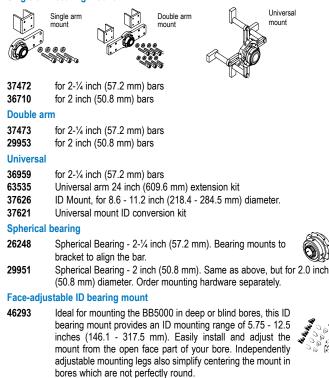
- 26507 Set of 2 cast iron set-up cones for 2.75 - 8.37 inch (69.9 - 212.6 mm) bore ID. Fit 2-1/4 inch (57.2 mm) diameter bars.
- 26508 Set of 2 cast iron set-up cones for 8.37 - 12 inch (212.6 - 304.8 mm) bore ID. Fit 2-1/4 inch (57.2 mm) diameter bars.
- 26383 Full set of cast iron set-up cones for 2.75 - 12 inch (69.9 - 304.8 mm) bore ID. Fit 2-1/4 inch (57.2 mm) diameter bars.
- 31801 Set of 2 cast iron set-up cones for 2.75 - 8.37 inch (69.9 - 212.6 mm) bore ID. Fit 2 inch (50.8 mm) diameter bars.
- 31802 Set of 2 cast iron set-up cones for 8.37 - 12 inch (212.6 - 304.8 mm)

bore ID. Fit 2 inch (50.8 mm) diameter bars.

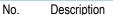
Spherical bearing mounts

Available in single arm, double arm, and universal mount styles, our spherical bearing mounts attach directly to the work piece, and accept both the model BB5000 rotational drive, and the mounting bracket for the CLIMAX AutoBoreWelders. (Includes bracket, bearing, and hardware.)

Single arm bearing mount



46227 1.5 inch extension jaw to extend reach (need 4)



ID mount self-aligning bearing support assembly

Bearing support assembly provides 4-way adjustable bar alignment. Fits



20319

bores with ID's from 11.5 - 24 inches (292.1 - 609.6 mm). Bar is held in place by a self-aligning bearing. Assembly includes chuck and bearing, three sets of jaws, two sets of jacking screws, and one set of 1 inch (25.4 mm) spacers.

Cantilever mounting assembly



Cantilever standoff mounts between two bearing mounting brackets to ensure machine rigidity when blind boring, trepanning, spade drilling, or tapping. Order bearing mounting brackets separately. Order two assemblies when using a double arm mount.

Accessories for Drilling and Blind Hole Boring

Turn your BB5000 into a powerful drilling system with the following accessories. A wide array of options available, please talk to us about your needs - we can customize a package to fit your specific need.

57140 Drill Base

Includes drill stand with grip tight bearing, tack weld spacers and all hardware. Customer will need to order #4 or #5 Morse Taper or straight shank bar (1), single arm bearing mount and drill tooling as well as BB5000 drive and feed to make a complete drill package



Morse Taper and Straight shank bars

CLIMAX sells special bars for drilling and blind hole boring. Options include #4 and #5 Morse Taper and bars with Morse Taper on one end and 1.25" straight shank on the opposite end. For most applications we recommend the #4 Morse Taper. The majority of our drilling and blind hole boring tooling is supplied with #4 Morse Taper.



2-1/4 Inch (57.2 mm) diameter Bars for Drilling and Blind Hole Boring				
Bar Length Inch (mm)	#4 Morse Taper only	#4 Morse Taper and straight Shank	#5 Morse Taper only	#5 Morse Taper and Straight Shank
24 (609.6)	58828		19282	18715
36 (914.4)	36114	61459	19283	18716
48 (1219.2)	38277	61502	19284	18717
60 (1524.0)	58827		19285	18718
72 (1828.8)	36113	61503	21131	58820
96 (2438.4)	38278	61504	19286	58821
144 (3657.6)	34200			

56524 Coolant Mister

Supplies Cooling Mist Directly to the Cutting Edge through the Super Drill or Allied Machine & Tool RCA (Rotary Coolant Adapter) 59804 New-Lube Coolant, 1 gallon

Super Drill

57629	Kit A1 1.968 - 2.165 inches (50 - 55 mm) #4 Morse taper
57647	Kit A2 2.165 - 2.559 inches (55 - 65 mm) #4 Morse taper
57652	Kit B 2.559 - 3.149 inches (65 - 80 mm) #4 Morse taper
57661	Kit C 3.149 - 3.937 inches (80 - 100 mm) #4 Morse taper
57667	Kit D 3.937 - 4.724 inches (100 - 120 mm) #4 Morse taper
57692	SBG Sharpening Fixture

See the CLIMAX Drilling & Blind Hole Boring supplement for a complete listing of insert, drill components and accessories.

Criterion

5

5

9767	CB-203
9768	CB-204

D 3 inch (76.2 mm) diameter boring head kit 1D 4 inch (101.6 mm) diameter boring head kit

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



Facing and Grooving Heads for your BB5000

Climax PN	31412	30051	30044	35858	36936	36954	45040	60301
Item Name	Adjustable Range Facing Heads		Heads	Facing & Grooving Heads			Heavy Duty Facing Head	
Bar Dia.	1-1⁄4 (31.8)	2.0 (50.8)	2-1⁄4 (57.2)	1-3/4 (44.5)	2-1/4 (57.2)	2-1⁄4 (57.2)	2-1/4 (57.2)	2.0 (50.8 mm)
Swing Dia.	6.6 - 9.4	9.1 - 22.2	10.0 - 18.6	13.5	13.5	20.3	20.1 - 25.3	
	(167.6 - 238.8)	(231.1 - 563.9)	(254 - 472.4)	(342.9)	(342.9)	(515.6)	(510.	5 - 642.6)
Facing Dia.	2.1 - 8.8	2.5 - 18	2.5 - 18	2.5 - 12	2.5 - 12	2.5 - 19.0	2.25 - 24.0	
	(53.3 - 223.5)	(63.5 - 457.2)	(63.5 - 457.2)	(63.5 - 304.8)	(63.5 - 304.8)	(63.5 - 482)	(57.2 - 609.6)	
Grooving Dia.	n/a	n/a	n/a	3.5 - 12	4.0 - 12.0	4.0 - 19.0	3.3 - 24.0	
				(88.9 - 304.8)	(101.6 - 304.8)	(101.6 - 482.6)	(83.8	8 - 609.6)

No. Description

Bore Measuring Tool



Features a fine adjustment feature which allows precision bore measureme and sets tool bit height while the bar is still mounted in the work piece. **70645** Mounts on any bar from 1-1/4 to 2-1/4 inches (31.8 to 57.2 mm)

diameter. Measures up to 12 inches (304.8 mm) diameter bores. 67487 Mounts on any bar from 1-1/4 to 2-1/4 inches (31.8 to 57.2 mm) in

diameter. Measures up to 24 inches (609.6 mm) diameter bores.

Magnetic Back Dial Indicator

Top quality travel dial indicator with magnetic back, made by Starrette for CLIMAX. Useful for many things including:

- Precisely setting depth of cut.
 Measuring and setting boring.
- Measuring and setting boring bar travel when cutting to a shoulder.
- Facing operations, precision alignment of boring bar to larger bores.

45396 0 - .500 inch range (.001 increment) - white face

45397 0 - 10 mm range (.01 mm increment) - yellow face

Digital Bore Measuring Caliper



Get an accurate reading of the bore without removing the bar. Features locking, micro-adjust slide.

1707	Measures up	to	10 inches	(254.0 mm) ID/OD

63330 Measures up to 24 inches (609.6 mm) ID/OD

Boring Heads

Boring heads may be positioned anywhere along the bar. Split body allows attachment without moving the bar. Boring heads to fit 2.0 inch (50.8 mm) diameter bars also available.



11817 HSS-inch boring head set (included in Base Unit 49003) Has (5) boring heads to bore 4.5 - 12 inch diameter



34565 HSS-metric boring head set (included in Base Unit 49004) Has five boring heads to bore 114.3 - 304.3 mm diameter. Uses standard 10 mm & 12 mm square cutter.

16161 Boring head set Has boring hub and boring head arms to bore 12 - 24 inch (304.8 - 609.6 mm) diameter.

Tool Kits

Complete set of tools for the boring bar (included in base unit)

34580 Tool Kit (Metric)

Tool Holder Kit

56275 Tool Holder Kit Complete set (L/R/neutral) with five 80 degree diamond inserts with ½ inch square shank.



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

	110.	Beeenpaen
	Tool Bits	
	HSS stand	ard tool bits (inch)
ent	31866	1/2 inch x 1.0 inch LH 15° lead*
	31857	1/2 inch x 1.0 inch LH 0° lead*
in	31867	1/2 inch x 1.8 inches LH 15° lead*
	31858	1/2 inch x 1.8 inches LH 0° lead*
	32344	$\frac{1}{2}$ inch x 2.5 inches LH 15° lead*
	32342	$\frac{1}{2}$ inch x 2.5 inches LH 0° lead*
	31868	$\frac{1}{2}$ inch x 4.0 inches LH 15° lead
	31859	$\frac{1}{2}$ inch x 4.0 inches LH 0° lead
for	25710	$\frac{1}{2}$ inch x 2.5 inches LH & RH double-ended
		Bits (Metric)
	34574	HSS 12 mm x 1.0 inches (25.4 mm) LH 0° lead**
	34578	HSS 12 mm x 1.8 inches (45.7 mm) LH 15° lead**
	34579	HSS 12 mm x 1.0 inches (25.4 mm) LH 0° lead**
	34573	HSS 12 mm x 1.8 inches (45.7 mm) LH 0° lead**
	34577	HSS 12 mm x 2.5 inches (63.5 mm) LH 15° lead**
	34572	HSS 12 mm x 2.5 inches (63.5 mm) LH 0° lead**
	34576	HSS 12 mm x 4.0 inches (101.6 mm) LH 15° lead
oar.	34570	HSS 12 mm x 4.0 inches (101.6 mm) LH 15 lead
	Alternative	
	31848	HSS ½ inch x 1.0 inch RH 15° lead
	31830	HSS $\frac{1}{2}$ inch x 1.0 inch RH 0° lead
	32103	HSS $\frac{1}{2}$ inch x 1.0 inch RH 0° lead side cutting
	32103	HSS ½ inch x 1.0 inch LH 0° lead side cutting
ent	31849	HSS $\frac{1}{2}$ inch x 1.8 inch RH 15° lead
lso		HSS $\frac{1}{2}$ inch x 1.8 inch RH 0° lead
	31831 32104	
)	32104	HSS ½ inch x 1.8 inch RH 0° lead side cutting HSS ½ inch x 1.8 inch LH 0° lead side cutting
′	32345	HSS $\frac{1}{2}$ inch x 2.5 inch RH 15° lead
	32345	HSS $\frac{1}{2}$ inch x 2.5 inch RH 0° lead
	32343	HSS ½ inch x 2.5 inch RH 0° lead side cutting
d	32341	HSS $\frac{1}{2}$ inch x 2.5 inch LH 0° lead side cutting
	31850	HSS ½ inch x 4.0 inch RH 15° lead double-ended
re	31841	HSS ½ inch x 4.0 inch RH 0° lead double-ended
	32105	HSS ½ inch x 4.0 inch RH 0° lead side cutting
	32105	HSS $\frac{1}{2}$ inch x 4.0 inch LH 0° lead side cutting
	34348	HSS $\frac{1}{2}$ inch x 4.0 inch LH 15° lead double-ended
		screw Facing Head Tool Bits
	31868	HSS ½ inch x 4.0 inch LH 15° lead
	31917	Carbide ½ inch x 3.5 inch LH 15° lead
		oving Tool Facing Bits
	31849	HSS ½ inch x 1.8 inch RH 15° lead
ıd	31831	HSS $\frac{1}{2}$ inch x 1.8 inch RH 0° lead
	36370	1 each of the 15° lead and 0° lead bits
		oving Tool Facing Bits
	35948	HSS LH grooving 0.12 inches wide, 15° lead top rake
	37766	HSS LH grooving 0.12 inches wide, 13 lead top rake
	35949	HSS LH grooving 0.56 inches wide, 0° lead top rake
	37767	HSS LH grooving 0.56 inches wide, 10° lead top rake
ay		d in Tool Kit 28784
		d in Tool Kit 34580
	menude	

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Further customize your BB5000 Boring Machine with these boring bar options. Order separately. (customized bars available upon request)

- All bars are made of 1045 S-CPO chrome-plated steel.
- Standard bars available in 2 foot (609.6 mm) increments up to 24 feet (7.3 meters) long, with various hole spacing.
- After machining, bars are straightened to within 0.001 inches per foot (0.025 per 304.8 mm).
- · Bars come packaged in a fitted steel container with quick-release latches.
- First hole is 1 inch (25.4 mm) from the end of the bar, for all bar lengths.
- · Morse taper and straight shank holders available upon request.

2.0 inch (50.8 mm) diameter bars available upon request. 6 inch hole spacing is available on longer bars upon request.

Holes spaced every 6 inches 152.4 mm)	Holes spaced every 10 inches (254.0 mm)	Bar Diameter	Bar Length	Hole Size
39309	34626	2-¼ inch (57.2 mm)	48 inches (1219.2 mm)	½ inch
39310	34627	2-¼ inch (57.2 mm)	72 inches (1828.8 mm)	1/2 inch
41552	34628	2-¼ inch (57.2 mm)	96 inches (2438.4 mm)	1/2 inch
43728	34629	2-¼ inch (57.2 mm)	120 inches (3048.0 mm)	1/2 inch
43729	34630	2-¼ inch (57.2 mm)	144 inches (3657.6 mm)	1∕₂ inch
39308	37337	1-¼ inch (31.8 mm)	48 inches (1219.2 mm)	3⁄8 inch
43693	37338	1-¼ inch (31.8 mm)	72 inches (1828.8 mm)	3⁄8 inch
39447	37339	1-¼ inch (31.8 mm)	96 inches (2438.4 mm)	3⁄8 inch
n/a	37340	1-¼ inch (31.8 mm)	120 inches (3048.0 mm)	3∕8 inch
n/a	37341	1-¼ inch (31.8 mm)	144 inches (3657.6 mm)	3∕8 inch
43311	43318	1-¾ inch (44.5 mm)	48 inches (1219.2 mm)	1/2 inch
43313	43320	1-¾ inch (44.5 mm)	72 inches (1828.8 mm)	1/2 inch
43314	43321	1-¾ inch (44.5 mm)	96 inches (2438.4 mm)	1/2 inch
43315	43322	1-¾ inch (44.5 mm)	120 inches (3048.0 mm)	1/2 inch
43316	43323	1-¾ inch (44.5 mm)	144 inches (3657.6 mm)	1/2 inch
10010	10020	1 /4 11011 (++.0 11111)	144 (10163 (3037.0 1111))	/2 11011
	10020	1 /4 mon (++.0 mm)		72 11011
Bars with Metric Tooling Holes spaced every 6 inches	Holes spaced every 10 inches (254.0 mm)	Bar Diameter	Bar Length	
Bars with Metric Tooling Holes spaced every 6 inches	Holes spaced every 10 inches			
Bars with Metric Tooling toles spaced every 6 inches 152.4 mm)	Holes spaced every 10 inches (254.0 mm)	Bar Diameter	Bar Length	Hole Size
Bars with Metric Tooling toles spaced every 6 inches 152.4 mm) 43740	Holes spaced every 10 inches (254.0 mm) 34635	Bar Diameter 2-¼ inch (57.2 mm)	Bar Length 48 inches (1219.2 mm)	Hole Size
Bars with Metric Tooling Holes spaced every 6 inches 152.4 mm) 43740 43741	Holes spaced every 10 inches (254.0 mm) 34635 34636	Bar Diameter 2-¼ inch (57.2 mm) 2-¼ inch (57.2 mm)	Bar Length 48 inches (1219.2 mm) 72 inches (1828.8 mm)	Hole Size 12 mm 12 mm
Bars with Metric Tooling Holes spaced every 6 inches 152.4 mm) 43740 43741 43742	Holes spaced every 10 inches (254.0 mm) 34635 34636 34637	Bar Diameter 2-¼ inch (57.2 mm) 2-¼ inch (57.2 mm) 2-¼ inch (57.2 mm)	Bar Length 48 inches (1219.2 mm) 72 inches (1828.8 mm) 96 inches (2438.4 mm)	Hole Size 12 mm 12 mm 12 mm
Bars with Metric Tooling toles spaced every 6 inches 152.4 mm) 43740 43741 43742 43743	Holes spaced every 10 inches (254.0 mm) 34635 34636 34637 34638	Bar Diameter 2-¼ inch (57.2 mm) 2-¼ inch (57.2 mm) 2-¼ inch (57.2 mm) 2-¼ inch (57.2 mm)	Bar Length 48 inches (1219.2 mm) 72 inches (1828.8 mm) 96 inches (2438.4 mm) 120 inches (3048.0 mm)	Hole Size 12 mm 12 mm 12 mm 12 mm
Bars with Metric Tooling Holes spaced every 6 inches 152.4 mm) 43740 43741 43742 43743 43744	Holes spaced every 10 inches (254.0 mm) 34635 34636 34637 34638 34639	Bar Diameter 2-¼ inch (57.2 mm)	Bar Length 48 inches (1219.2 mm) 72 inches (1828.8 mm) 96 inches (2438.4 mm) 120 inches (3048.0 mm) 144 inches (3657.6 mm)	Hole Size 12 mm 12 mm 12 mm 12 mm 12 mm
Bars with Metric Tooling toles spaced every 6 inches 152.4 mm) 43740 43741 43742 43743 43744 43687	Holes spaced every 10 inches (254.0 mm) 34635 34636 34637 34638 34639 37327	Bar Diameter 2-¼ inch (57.2 mm) 1-¼ inch (31.8 mm)	Bar Length 48 inches (1219.2 mm) 72 inches (1828.8 mm) 96 inches (2438.4 mm) 120 inches (3048.0 mm) 144 inches (3657.6 mm) 48 inches (1219.2 mm)	Hole Size 12 mm 12 mm 12 mm 12 mm 12 mm 12 mm 12 mm
Bars with Metric Tooling Holes spaced every 6 inches 152.4 mm) 43740 43741 43742 43743 43744 43687 43686	Holes spaced every 10 inches (254.0 mm) 34635 34636 34637 34638 34639 37327 37328	Bar Diameter 2-¼ inch (57.2 mm) 1-¼ inch (31.8 mm) 1-¼ inch (31.8 mm)	Bar Length 48 inches (1219.2 mm) 72 inches (1828.8 mm) 96 inches (2438.4 mm) 120 inches (3048.0 mm) 144 inches (3657.6 mm) 48 inches (1219.2 mm) 72 inches (1828.8 mm)	Hole Size 12 mm 12 mm 12 mm 12 mm 12 mm 10 mm 10 mm
Bars with Metric Tooling Ioles spaced every 6 inches 152.4 mm) 43740 43741 43742 43743 43744 43687 43686 43685	Holes spaced every 10 inches (254.0 mm) 34635 34636 34637 34638 34639 37327 37328 37329	Bar Diameter 2-¼ inch (57.2 mm) 1-¼ inch (31.8 mm) 1-¼ inch (31.8 mm) 1-¼ inch (31.8 mm)	Bar Length 48 inches (1219.2 mm) 72 inches (1828.8 mm) 96 inches (2438.4 mm) 120 inches (3048.0 mm) 144 inches (3657.6 mm) 48 inches (1219.2 mm) 72 inches (1828.8 mm) 96 inches (2438.4 mm)	Hole Size 12 mm 12 mm 12 mm 12 mm 12 mm 10 mm 10 mm 10 mm
Bars with Metric Tooling Ioles spaced every 6 inches 152.4 mm) 43740 43741 43742 43743 43744 43687 43685 n/a	Holes spaced every 10 inches (254.0 mm) 34635 34636 34637 34638 34639 37327 37328 37329 37330	Bar Diameter 2-¼ inch (57.2 mm) 1-¼ inch (31.8 mm) 1-¼ inch (31.8 mm) 1-¼ inch (31.8 mm) 1-¼ inch (31.8 mm)	Bar Length 48 inches (1219.2 mm) 72 inches (1828.8 mm) 96 inches (2438.4 mm) 120 inches (3048.0 mm) 144 inches (3657.6 mm) 48 inches (1219.2 mm) 72 inches (1828.8 mm) 96 inches (2438.4 mm) 120 inches (3048.0 mm) 121 inches (382.8 mm) 96 inches (2438.4 mm) 120 inches (3048.0 mm)	Hole Size 12 mm 12 mm 12 mm 12 mm 12 mm 12 mm 10 mm 10 mm 10 mm
Bars with Metric Tooling toles spaced every 6 inches 152.4 mm) 43740 43741 43742 43743 43743 43744 43687 43686 43685 n/a n/a	Holes spaced every 10 inches (254.0 mm) 34635 34636 34637 34638 34639 37327 37328 37329 37330 37330	Bar Diameter 2-¼ inch (57.2 mm) 1-¼ inch (31.8 mm)	Bar Length 48 inches (1219.2 mm) 72 inches (1828.8 mm) 96 inches (2438.4 mm) 120 inches (3048.0 mm) 144 inches (3657.6 mm) 48 inches (1219.2 mm) 72 inches (1828.8 mm) 96 inches (2438.4 mm) 120 inches (3048.0 mm) 144 inches (3657.6 mm) 120 inches (3048.0 mm) 120 inches (3048.0 mm) 121 inches (3657.6 mm)	Hole Size 12 mm 12 mm 12 mm 12 mm 12 mm 10 mm 10 mm 10 mm 10 mm 10 mm
Bars with Metric Tooling Holes spaced every 6 inches 152.4 mm) 43740 43741 43742 43743 43744 43744 43687 43686 43685 n/a n/a 43298	Holes spaced every 10 inches (254.0 mm) 34635 34636 34637 34638 34639 37327 37328 37329 37330 37331 43305	Bar Diameter 2-¼ inch (57.2 mm) 1-¼ inch (57.2 mm) 1-¼ inch (57.2 mm) 1-¼ inch (31.8 mm)	Bar Length 48 inches (1219.2 mm) 72 inches (1828.8 mm) 96 inches (2438.4 mm) 120 inches (3048.0 mm) 144 inches (3657.6 mm) 48 inches (1219.2 mm) 72 inches (1828.8 mm) 96 inches (2438.4 mm) 120 inches (3657.6 mm) 48 inches (1219.2 mm) 72 inches (3048.0 mm) 120 inches (3048.0 mm) 120 inches (3048.0 mm) 120 inches (3657.6 mm) 48 inches (1219.2 mm)	Hole Size 12 mm 12 mm 12 mm 12 mm 12 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
Bars with Metric Tooling Holes spaced every 6 inches 152.4 mm) 43740 43741 43742 43743 43744 43687 43686 43685 n/a n/a n/a 43298 43307	Holes spaced every 10 inches (254.0 mm) 34635 34636 34637 34638 34639 37327 37328 37329 37330 37331 43305	Bar Diameter 2-¼ inch (57.2 mm) 1-¼ inch (57.2 mm) 1-¼ inch (31.8 mm) 1-¼ inch (44.5 mm) 1-¾ inch (44.5 mm)	Bar Length 48 inches (1219.2 mm) 72 inches (1828.8 mm) 96 inches (2438.4 mm) 120 inches (3048.0 mm) 144 inches (3657.6 mm) 48 inches (1219.2 mm) 72 inches (1828.8 mm) 96 inches (2438.4 mm) 120 inches (3657.6 mm) 48 inches (1219.2 mm) 72 inches (3048.0 mm) 120 inches (3048.0 mm) 144 inches (3657.6 mm) 48 inches (1219.2 mm) 72 inches (1828.8 mm)	Hole Size 12 mm 12 mm 12 mm 12 mm 12 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 12 mm

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A Wide Variety of Applications

Do you need to put the axial feed unit on one end of the bar and the rotational drive on the other? No problem... all you need to do is use the leadscrew block clamped or tack welded to the work piece. In fact, just about any arrangement of components can be used as long as you maintain rigidity by placing bearing supports as close as possible to the holes to be bored. Need to align and multiple holes? Just use a long bar and weld a bearing bracket at each hole for support or use optical alignment for easy & precise setup over long distances. Modular components let you use the machine in a wide variety of combinations.

The BB5000 is widely used by these industries:

- Construction
- Mining
- Power Generation
- Ship building
- Transportation
- Petrochemical
- · Pulp and paper
- · Steel and aluminum

Typical applications:

- Heavy equipment repair
- · Stern tube boring
- Wicket gate repair on dams
- Bridge building/re-building
- Turbine coupling boring
- Engine block repair
- · Bearing seat repair
- Press repair
- Valve body boring
- Pump body boring
- Large fab bore alignment







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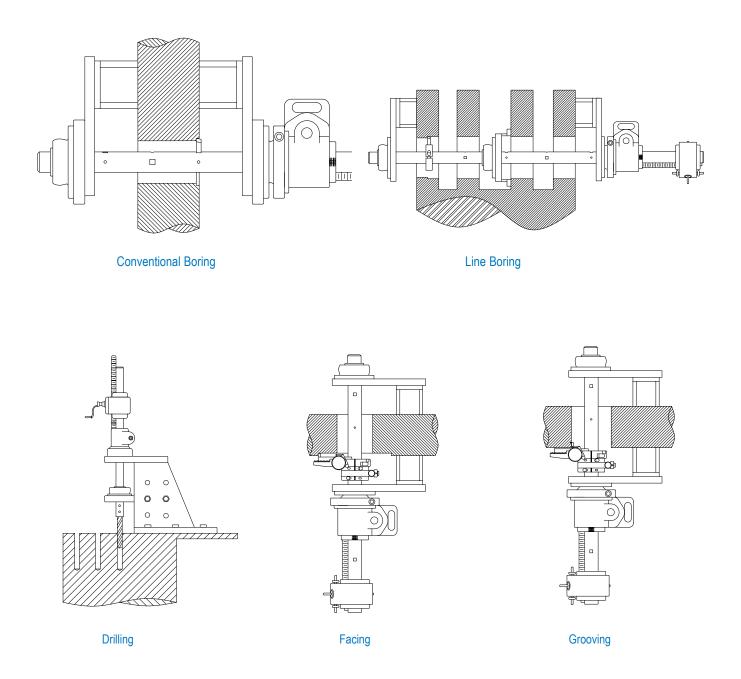


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Typical applications:

Whether it's conventional boring, line boring, drilling, facing or grooving, the CLIMAX BB5000 has you covered. With versatile setup & machining options, it's the machine you need to get all your toughest jobs done when and where you need it. Typical applications illustrated below.



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

CLIMAX Training Facilities

CLIMAX has been teaching the fundamentals and finer points of portable machine tool operation for more than 50 years.

Whether it's a regularly scheduled course at one of our seven Global Training Centers or a custom curriculum conducted with your team, at your facility, your technicians will benefit from courses developed by the most experienced and respected professionals in the business.

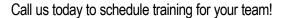
Regularly scheduled courses in basic and advanced tool operation are available. A vast majority of every program is devoted to hands-on activities, skills development, and OEM Certification covering the following subject matters: operator safety, tool component review, setup and mounting, standard and advanced operational techniques, overview of cutting tools and recommended usage, and maintenance procedures.



Training is available at the following seven Global Training Centers:

- Portland, Oregon
- Houston, Texas
- Gonzales, Louisiana
- Wadsworth, Ohio

- Manchester, United Kingdom
- Düren, Germany
- Dubai, United Arab Emirates





CLIMAX GLOBAL LOCATIONS



o Field Sales Locations ● Field Sales & Rental Locations

Call CLIMAX for:

RENTALS

With 20+ worldwide rental depot locations, you are never far away from a CLIMAX tool.

ON-SITE TRAINING

If you need training or on-site consultation, we're famous for it!

CUSTOM PROJECTS

Custom turn-key system design services from the most experienced engineers and portable machining and welding experts!

Connect with us: f 🗾 in 😵



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