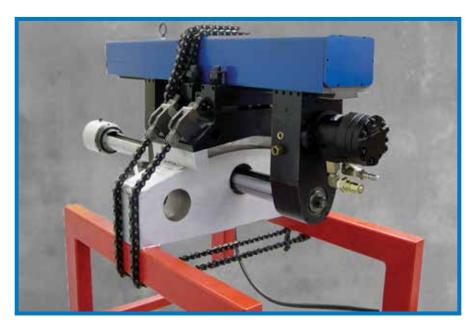
Designed specifically for boring precise fitted bolt holes in large couplings and flanges.

Designed to bore precision coupling bolt holes on turbine and other coupling applications, this machine is optimized for boring fitted bolt holes in large couplings. Minimize shutdown time during turbine overhauls with features that allow quick setup and precision, round and straight bores.

Powerful, versatile and easy to use

- Quickly bores precisely aligned bolt holes the first time.
- Eliminates the need for lengthy honing procedures.
- Universal coupling mounting system adapts to all sizes of commercially available turbine couplings.
- Quick removal of the boring bar without disturbing setup. This allows measuring and inspection of the bore.
- Multiple feed options to suit your requirements.
- Reversing mechanical feed for limited space applications that allows back spot facing and counterboring.
- Electric feed allows reversing and also rapid tool return.
- Multiple drive options—hydraulic, pneumatic, or contact your sales representative for custom electric drive options.
- Switch easily between high speed steel or carbide tooling.



Compact Design

- · Extremely rigid and very compact.
- Easily fits into confined spaces.
- · Simple one operator setup.
- Minimum clearance Rotation Drive and Axial Feed only requires 2.0 inches (50.8 mm) clearance between the coupling hub OD and the bolt center.





US Metric

BB5500 bar manufacturing tolerances are within 0.0005 inches (0.0127 mm) per 12 inch (304.8 mm)

Boring Diameter 2.1 - 4.2 inches 53.3 - 106.7 mm

Coupling OD range: 27 - 60 inches 685.8 - 1524.0 mm

(The upper diameter is only limited by the amount of mounting chain. Please contact your Climax representative if you require larger diameter.)

Axial feed rate:

 Mechanical feed
 0 - 0.010 in/rev.
 0 - 0.254 mm/rev.

 Electric feed
 0 - 3.5 inches/min.
 0 - 88.9 mm/min.

Drive ratio 1.13:1 speed increase 1.13:1 speed increase

Torque produced at the boring bar (all with 5 Hp Hydraulic Power Unit)

2.2 cubic inch Hydraulic Motor19.5 ft-lbs26.4 N•m3.6 cubic inch Hydraulic Motor35.4 ft-lbs48.0 N•m5.9 cubic inch Hydraulic Motor57.5 ft-lbs78.0 N•m

Perpendicularity and alignment dependent on operator set-up

Mounting System

Lateral fine adjustment +/- 0.125 inches +/- 3.175 mm
Radial fine adjustment +/- 0.500 inches +/- 12.7 mm

Typical Machine Ship Weight 700 lbs 318 kg

Shipping Dimensions (Machine shipped in 1 metal container)

Machine W, D, H 30 x 60 x 37 inches 762 x 1524 x 940 mm

Bearing Spacing:

Cutting should take place no further from a bearing than 5 times the bar diameter.

Maximum recommended bearing spacing to achieve specs is as follows:

 Bar Diameter
 Max Bearing Spacing:

 1-1/8 inch (47.6 mm)
 19 inches (482.6 mm)

 2-1/2 inch (63.5 mm)
 25 inches (635.0 mm)

Max. Distance between RDU & bearing hanger:

24 inch (609.6 mm) strongback: 18.4 inches (467.4 mm) 36 inch (914.4 mm) strongback: 30.4 inches (772.2 mm) 48 inch (1219.2 mm) strongback: 42.4 inches (1077.0 mm)

The BB5500 mounts to OD of coupling. Due to length of RDU and bearing hanger, distance from coupling OD to bolt circle diameter is limited, and varies by coupling diameter.

Bolt Circle Range Examples:

 Coupling OD
 Min. bolt circle diameter
 Max bolt circle diameter

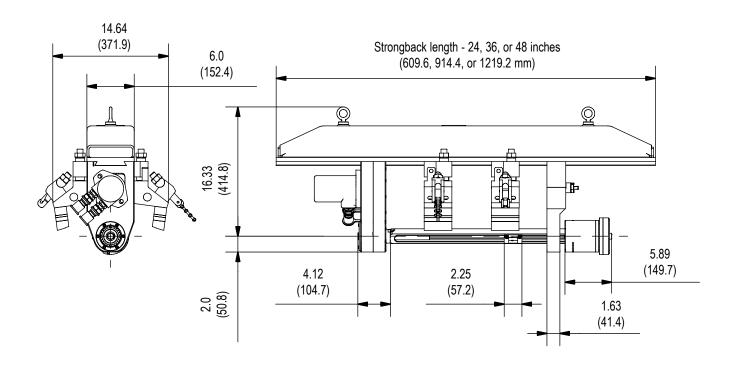
 27 inches (685.8 mm)
 18.2 inches (462.3 mm)
 22.9 inches (581.5 mm)

 44 inches (1117.7 mm)
 36.3 inches (922.0 mm)
 40.9 inches (1038.9 mm)

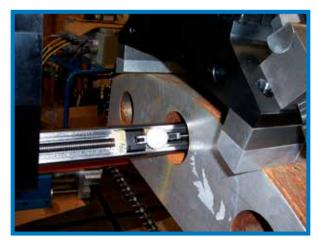
 50 inches (1524.0 mm)
 52.9 inches (1343.7 mm)
 57.5 inches (1460.5 mm)

To reduce minimum bolt circle diameter, order spacer blocks (see accessories, p.6)

OPERATIONAL DIMENSIONS







TOOL CONFIGURATIONS

Configure your BB5500 in 8 easy steps.

To configure your BB5500 Coupling Boring Machine:

- 1 Select a Base Unit
- 2 Select a Strong Back Assembly
- 3 Select a Lower Bar Hanger Bearing Assembly
- 4 Select a Boring Bar
- 5 Select a Tool Holder
- 6 Select a Tool Bit
- 7 Select a Feed System
- 8 Select a Drive Option

To configure the Coupling Boring Machine you require, simply select the option you need in each step, then contact your CLIMAX representative.

1 Base Unit

(Includes the rotational drive unit (RDU), tool kit, mounting system, universal coupling mounting system, and instruction manual. The unit comes packed in a durable metal container.) Base Model Package 47270

2 Strong Back Assembly

24 inch (609.6 mm) strong back assembly	46530
36 inch (914.4 mm) strong back assembly	46493
48 inch (1219.2 mm) strong back assembly	46486
* Multiple units may be ordered.	

3 Lower Bar Hanger Bearing Assembly

For 1-1/8 inch (47.625 mm) diameter bar	56331
For 2-1/2 inch (63.5 mm) diameter bar	56340
* Multiple units may be ordered.	

4 Boring Bar with Tool Slide

Dorling Dar With 1001 Ollac			
1-% inch (47.625 mm) dia. 18 inches ((457.2 mm)	47276	
1-% inch (47.625 mm) dia. 24 inches ((609.6 mm)	47277	
1-% inch (47.625 mm) dia. 30 inches ((762.0 mm)	47278	
1-% inch (47.625 mm) dia. 34 inches ((863.6 mm)	47279	
2-1/2 inch (63.5 mm) dia. 36 inches (91	4.4 mm)	47273	
2-1/2 inch (63.5 mm) dia. 42 inches (10)66.8 mm)	47274	
2-1/2 inch (63.5 mm) dia. 48 inches (12	219.2 mm)	47275	
* Multiple units may be ordered.	•		

5 Tool Holder

Tool insert holder, 5/16 inch square bit, small	46636
Tool insert holder, 5/16 inch square bit, medium	47189
#2 Microbore small tool holder	78531
#2 Microbore medium tool holder	78532
#3 Microbore small tool holder	78342
#3 Microbore medium tool holder	78343
#3 Microbore large tool holder	78344
All tool holders & tools, microbore & HSS kit	81374

6 Tool Bit

TOOL DIC	
Tool bit HSS 1/16 x 1.25 LH 15 degree lead	46661
Tool bit HSS 1/16 x 0.78 LH 15 degree lead	50413
#2 Metric microbore cartridge kit	78358
TCM-06 insert for #2 microbore	78420
#3 metric microbore cartridge kit	78359
TCM-09 insert for #3 microbore	78421

7 Feed System

Mechanical axial feed assembly (AFU)	26659
Mechanical axial feed assembly (AFU), reversible	47287
Electrical axial feed assembly with pendant	47294
Adapter sleeve for AFU (PN 26659),	
1-% - 2-½ inch (47.625 - 63.5 mm)	26444
Short adapter sleeve for AFU (PN 47287 or	
PN 47294),1-% - 2-1/2 inch (47.625 - 63.5 mm)	55578

8 Drive System

Hydraulic Motor Assembly

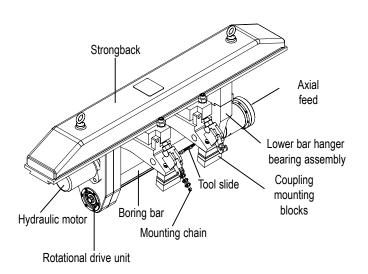
1	otor acity	Max Bar	RPM at			
In ³	cm ³	8.3 gpm (31.5 L/min) with 50 Hz mains power	10 gpm (37.9 L/min) with 60 Hz mains power	Torque at Bar, - Calculated - ft-lbs, (N•m)	Part No. Motors with 60 Series QD Fittings	Part No. Motors with ISO 16028 QD Fittings
2.2	36	204	246	92 (124.7)	39837	65384
3.6	59	124	150	159 (215.6)	39843	63425
5.7	93.4	76	92	270 (367)	39844	63429

Pneumatic Motor Assemby

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)

^{*}Multiple units may be ordered.

Please contact your sales representative for custom electric motors.



A Fast Six-Step Process

Setup of the BB5500 Coupling Boring Machine is quick and easy. An experienced operator can set up the machine in most typical coupling applications in about an hour (depending on alignment tolerances).

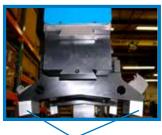
Remove the machine from the shipping container. Attach the correct spacers for the mounting feet based on coupling OD and BC dimensions. Make sure the base mounting adjustment bolts are centered.



4

Install the boring bar.
Tighten the bearing hanger clamp assembly.

Elapsed time: 5 minutes.



Block fee

Elapsed time: 10 minutes.

Position the strong back base supports, RDU and bearing hanger based on the coupling width.Lock the gib adjustments in place.

Elapsed time: 5 minutes.



5

Attach the drive motor to the RDU and the axial feed to the boring

Elapsed time: 5 minutes.



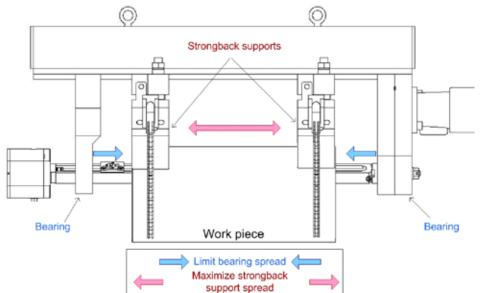
3 Lift the machine onto the coupling OD. Roughly center the RDU spindle with the first bolt hole and secure by tightening the chain clamps.

6

Dial indicate the bar to the hole by making fine lateral and radial adjustments on each base support. Install tooling and you are ready to start machining.

Elapsed time: 10 minutes.

Elapsed time: 10 minutes.



Total elapsed time: approximately 45 minutes.

All subsequent bores on the same coupling require repeating only steps 3 thru 6.

Performance is dependent on experienced operators, proper machine set-up, and correct bearing spacing.



Rotational Drive Unit (Inst shown)		No.	Description	Т	No.	Description				
Motor Assembles Please contact your sales representative for custom electric motors. 28614 Pneumatic, 3 Hp (2,2 kW), 540 bar prm (9 90 ps is and 95 CFM (2 7 m²/min.) (includes air conditioning unit) (Includes air conditioning unit			Drive Unit (not shown) Features rigid steel housing with a #30M spindle in adjustable preloaded sealed bearings. The drive motor is offset from the bar centerline for maximum clearance		Boring Bar Precision c diameters a a variety of	Bars (not shown) n chromed with integral leadscrew. Available in a variety of rs and lengths, with or without tool slide. Tool slides accept of interchangeable tool holders for either HSS bits or				
Motor Assemblies			with a high performance toothed belt.						_	
Please contact your sales representative for custom electric motors assembly Please contact your sales representative for custom electric motors. 28614 Pneumatic. 3 to 22 kW), 250 bar rpm @ 90 si and 95 CFM (27 m² m² min.) (includes air conditioning unit) Pneumatic. 3 th p (2 x kW), 250 bar rpm @ 90 si and 95 CFM (27 m² m² min.) Pneumatic. 3 th p (2 x kW), 250 bar rpm @ 90 si and 95 CFM (27 m² m² min.) Pneumatic. 3 th p (2 x kW), 250 bar rpm @ 90 si and 95 CFM (27 m² m² min.) Pneumatic. 3 th p (2 x kW), 250 bar rpm @ 90 pain and 95 CFM (27 m² m² min.) Pneumatic motor go 65 GFM (18 9 Limin) with ½ inch (12.7 m² m² min.) (12.7 m²	\sim	Motor Acc	combline							
Customized electric motors. 28614 Pneumatic, 3 thp (2 2 kW), 540 bar rpm (9 0 pp sia and 95 CFM (2 7 m²) min.) (includes air conditioning unit) Pneumatic, 3 thp (2 2 kW), 250 bar rpm (9 0 pp sia and 95 CFM (2 7 m²) min.) (includes air conditioning unit) Pneumatic, 3 thp (2 2 kW), 250 bar rpm (9 0 pp sia and 95 CFM (2 7 m²) min.) (includes air conditioning unit) Pneumatic motor 39837 Phydraulic, 2 in "j (36 0cm²) 550 bar rpm (9 5 CFM (18 9 J/min) with "12 inch (12 7 mm) fittings. Pneumatic motor assembly 39844 Phydraulic, 5 in" (9 0.0cm²), 340 bar rpm (9 5 CFM (18 9 J/min) with "12 inch (12 7 mm) fittings. Hydraulic, 19 J/min) with "12 inch (12 7 mm) fittings. Pneumatic motor assembly Axial Feed Unit Mechanical or electric options available for infinitely adjustable feed rates. Peed Box Adapter Sieeves for AFU 26444 1-78 inch (47 625 mm) bar adapter 42411 1-56 inch (47 625 mm) bar adapter 42454 1-56 inch (41 275 mm) strongback 46453 36.0 inch (914.4 mm) strongback 46456 46.0 inch (12192 mm) stron		WOLUI ASS		_						
28614 Pneumatic, 3 Hp (2 2 kW), 540 bar rpm @ 9 ps iand 95 CFM (27 m²/ min.) (includes an conditioning unit) Pneumatic, 3 Hp (2 2 kW), 250 bar rpm @ 90 ps iand 95 CFM (27 m²/ min.) (includes air conditioning unit) (included 127276 12 ki635) 48.0 (g14.4) (included 27276 12 ki635) 48.0 (g14.5) (•	Ĭ	47279		34.0 (863.6)	Include	ed
@ 90 psi and 95 CFM (27 m³ min.) (includes air conditioning unit) 28697 Pneumatic, 3 hp (2.2 kW), 250 bar rpm @ 90 psi and 95 CFM (2.7 m³ min.) (includes air conditioning unit) (includes air conditioning unit) 39837 Hydraulic, 2 in² (3.6 com²) 550 bar rpm @ 5 GPM (18.9 Umin) with ½ nch (12.7 mm) fittings. 39843 Hydraulic, 3.6 in² (6.0 com²) 3,340 bar rpm @ 5 GPM (18.9 Umin) with ½ nch (12.7 mm) fittings. 39844 Hydraulic, 5.6 in² (6.0 com²) 3,340 bar rpm @ 5 GPM (18.9 Umin) with ½ nch (12.7 mm) fittings. 44173 2½ (6.3.5) 42.0 (1066 8) Not included 44173 2½ (6.3.5) 42.0 (1066 8) Not included (2765 2½ (6.3.5) 42.0 (1067 8) Not included (27765 2½ (6.3.5) 42.0 (1068 8) Not included (27765 2½ (6.3.5) 40.0 (1219.2) Included (27765 2½ (6.3.5) 42.0 (1068 8) Not included (27765 2½ (6.3.5) 40.0 (1219.2) Not included (27765 2½ (28177			457.2)	Not inc	cluded
28697 Pneumatic motor (nocludes air conditioning unit) 1/2 m	Customized electric motor	28614			27286	1-7/8 (47.625)	24.0 (609.6)	Not inc	cluded
28697 Pneumatic, 3 Hg/ (2 kM), 250 bar rpm (e) 90 sia and 95 CFM (27 m³/min.) (includes air conditioning unit) Hydraulic, 22 in³ (36 0cm²) 550 bar rpm (g) 5 GPM (18 9 L/min) with 1/2 inch (12 7 mm) fittings. 39843 Hydraulic, 36 in³ (60 0cm³), 340 bar rpm (g) 5 GPM (18 9 L/min) with 1/2 inch (12 7 mm) fittings. 39844 Hydraulic, 36 in³ (60 0cm³), 340 bar rpm (g) 5 GPM (18 9 L/min) with 1/2 inch (12 7 mm) fittings. 39844 Hydraulic, 59 in³ (96 7cm³) 210 bar rpm (g) 5 GPM (18 9 L/min) with 1/2 inch (12 7 mm) fittings. 39844 Hydraulic, 59 in³ (96 7cm³) 210 bar rpm (g) 5 GPM (18 9 L/min) with 1/2 inch (12 7 mm) fittings. 39844 Hydraulic, 59 in³ (96 7cm³) 210 bar rpm (g) 5 GPM (18 9 L/min) with 1/2 inch (12 7 mm) fittings. 39844 Hydraulic, 59 in³ (96 7cm³) 210 bar rpm (g) 5 GPM (18 9 L/min) with 1/2 inch (12 7 mm) fittings. 39844 Hydraulic, 59 in³ (96 7cm²) 210 bar rpm (g) 5 GPM (18 9 L/min) with 1/2 inch (12 7 mm) fittings. 39844 Hydraulic, 59 in³ (96 7cm²) 210 bar rpm (g) 5 GPM (18 9 L/min) with 1/2 inch (12 7 mm) fittings. 39844 Hydraulic, 59 in³ (96 7cm²) 210 bar rpm (g) 5 GPM (18 9 L/min) with 1/2 inch (12 7 mm) fittings. 39844 Hydraulic, 59 in³ (96 7cm²) 210 bar rpm (g) 5 GPM (18 9 L/min) with 1/2 inch (12 7 mm) fittings. 39844 Hydraulic, 59 in³ (96 7cm²) 210 bar rpm (g) 5 GPM (18 9 L/min) with 1/2 inch (12 7 mm) fittings. 39844 Hydraulic, 59 in³ (96 7cm²) 210 bar rpm (g) 5 GPM (18 9 L/min) with 1/2 inch (12 7 mm) fittings. 39844 Hydraulic, 59 in³ (96 7cm²) 210 bar rpm (g) 5 in³ (96 7c	_				27287					
@ 9 op si and 95 CPM (27 m² /min.), (includes air conditioning unit) (included (12.7 mm) fittings.) 39843 Hydraulic, 36 in² (60 0.cm³), 340 bar rpm (included (12.7 mm) fittings. 39844 Hydraulic, 35 in² (60 0.cm³), 340 bar rpm (included (12.7 mm) fittings. 39845 Hydraulic, 35 in² (60 0.cm³), 340 bar rpm (included (12.7 mm) fittings. 39846 Hydraulic, 35 in² (60 0.cm³), 340 bar rpm (included (12.7 mm) fittings. 39847 Hydraulic, 35 in² (60 0.cm³), 340 bar rpm (included (12.7 mm) fittings. 39848 Hydraulic, 35 in² (60 0.cm³), 340 bar rpm (included (12.7 mm) fittings. 39849 Hydraulic, 35 in² (60 0.cm³), 340 bar rpm (included (12.7 mm) fittings. 39849 Hydraulic, 35 in² (60 0.cm³), 340 bar rpm (included (12.7 mm) fittings. 39840 Hydraulic, 35 in² (60 0.cm³), 340 bar rpm (included (12.7 mm) fittings. 39841 Hydraulic, 35 in² (60 0.cm³), 340 bar rpm (included (12.7 mm) fittings. 39842 Hydraulic, 35 in² (60 0.cm³), 340 bar rpm (included (12.7 mm) fittings. 44178 Lydraulic, 35 in² (60 0.cm³), 340 bar rpm (included (12.7 mm) fittings. 45 in² (12.7 mm) fittings. 45 in² (12.7 mm) fittings. 46638 516 in. sq. (53.0) (68.3) (64.0) (79.8) (79.9) (79.	Reg M	20607			41089	_	_		Not inc	cluded
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39837 Hydraulic, 22 in 3 (8.0 cm²) 550 bar rpm (9.5 GPM (18.9 L/min) with 1/2 inch (12.7 mm) fittings. 39843 Hydraulic, 35 in 3 (60.0 cm²), 340 bar rpm (9.5 GPM (18.9 L/min) with 1/2 inch (12.7 mm) fittings. 39844 Hydraulic, 55 lin² (96.7 cm²), 210 bar rpm (9.5 GPM (18.9 L/min) with 1/2 inch (12.7 mm) fittings. 39845 Hydraulic, 55 lin² (96.7 cm²), 210 bar rpm (9.5 GPM (18.9 L/min) with 1/2 inch (12.7 mm) fittings. Axial Feed Unit Mechanical or electric options available for infinitely adjustable feed rates. Axial Feed Unit Mechanical, non-reversible 47287 Mechanical, reversible 47287 Mechanical, reversible 47287 Mechanical, reversible 47287 Mechanical, reversible 55578 1-178 inch (47.625 mm) bar adapter 55578 1-178 inch (47.625 mm) bar adapter 42411 1-5/8 inch (47.625 mm) bar adapter 42411 1-5/8 inch (47.625 mm) bar adapter 42454 1-5/8 inch (47.625 mm) diameter 42454 1-5/8 inch (47.625 mm) diameter 54466 4.0 inch (1219.2 mm) strongback 46493 36.0 inch (914.4 mm) strongback 46496 2 lnch (60.8 mm) spacer, for 4 inch (10.16 mm) diameter reduction 54496 2 lnch (60.8 mm) spacer, for 4 inch (203.2 mm) diameter reduction 5430 (Both spacers above may be stacked, for a total form that a local for a total form of the form of th										
### Pneumatic motor assembly ### 12 inch (12.7 mm) fittings. ### 12 inch (12.7 mm) fittings		39837	Hydraulic, 2.2 in ³ (36.0cm ³) 550 bar rpr	m					_	
Available feed Unit Mechanical one-reversible Ar287 Mechanical, reversible Ar281 1-5/8 inch (47.625 mm) bar adapter 55578 1-7/8 inch (47.625 mm) bar adapter 42441 1-5/8 inch (41.275 mm) diameter 42454 1-5/8 inch (41.275 mm) diameter 42454 3.63 inch (47.625 mm) diameter 42454 3.63 inch (47.275 mm) diameter 42454			@ 5 GPM (18.9 L/min) with ¹ /2 inch							
### 3884# ### 3894# ### 38			(12.7 mm) fittings.				_			
Tool Holders Tool Holders Select tool holder assembly from the table shown below. Tool Type 1-7/8 in. Bar 2-172 in. Bar Min Max Min		39843	Hydraulic, 3.6 in ³ (60.0cm ³), 340 bar rp	m						
Sample	assembly				47280	1-% (41.275)	24.0 (009.6)	Include	ea
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Axial Feed Unit Mechanical or electric options available for infinitely adjustable feed rates. 26659 Mechanical, non-reversible 47294 Electric, reversible electric preversible 47294 Electric, reversible electric preversible experimental experiment	Liudraulia matar				PN	Tool Type				
Axial Feed Unit Mechanical or electric options available for infinitely adjustable feed rates. 26659 Mechanical, non-reversible 47287 Mechanical, reversible, heavy-duty pendant Feed Box Adapter Sleeves for AFU 26444 1-7/8 inch (47.625 mm) bar adapter 42411 1-5/8 inch (41.275 mm) bar adapter 42411 1-5/8 inch (41.275 mm) diameter 42454 1-5/8 inch (41.275 mm) diameter 42454 1-5/8 inch (41.275 mm) diameter 42454 1-5/8 inch (41.275 mm) storogback 46493 36.0 inch (914.4 mm) strongback 46496 2 inch (60.8 mm) spacer, for 4 inch (101.6 mm) diameter reduction 54530 4 inch (101.6 mm) spacer, for 6 inch (203.2 mm) diameter reduction (Both spacers above may be stacked, for a total	1									
## Ackar Feed Office Ackar Strongback additional for infinitely adjustable feed rates. ### Ackar Feed Office Ackar Strongback additional for infinitely adjustable feed rates. ### Ackar Feed Office Ackar Strongback (67.6) (93.0) (70.0) (103.0) ### Ackar Feed Office Ackar Strongback (61.2) (70.2) (63.3) (72.3) ### Ackar Feed Office Ackar Strongback (61.2) (70.2) (63.3) (72.3) ### Ackar Feed Office Ackar Strongback (61.2) (70.2) (63.3) (72.3) ### Ackar Feed Office Ackar Strongback (61.2) (70.2) (63.3) (72.3) ### Ackar Feed Office Ackar Strongback (61.2) (70.2) (63.3) (72.3) ### Ackar Feed Office Ackar Strongback (61.2) (70.2) (63.3) (70.0) (70.0) (70.0) (70.0) (70.0) (70.0) (70.0) (70.0) (70.0) (70.0) (70.0)	docombry	Assist Ess	J. 1 L-31	\dashv	46636	5/16 in. sq		1		
## A7287 Mechanical, reversible ## A7294 Electric, reversible, heavy-duty pendant ## Feed Box Adapter Sleeves for AFU ## 26444 1-7/8 inch (47.625 mm) bar adapter ## 24411 1-5/8 inch (47.625 mm) bar adapter ## 24411 1-5/8 inch (47.625 mm) bar adapter ## 24411 1-5/8 inch (47.625 mm) bar adapter ## 2454 1-5/8 inch (47.625 mm) diameter ## 2455 1-5/8 inch (47.625 mm) square carbide bits unground ## 25 inch (5.9 mm) square carbide bits unground ## 25 inch (6.12) (70.2) (61.3) (70.2) (82.1) (10.1) (94.7) (10.1) (94.7) (10.1) (94.7) (10.1) (10.1) (10.1) (10.1) (10.1)		Mechanica	al or electric options available for infinitely		47189		2.660	3.660	2.756	4.056
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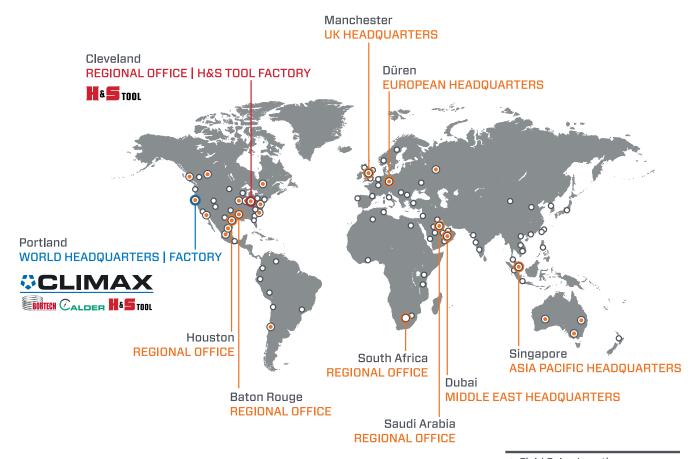
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