

# High Speed Hand Held Bevelers

Model HHB-5000  
Model HHB-10000  
Model HHB-5000 RA  
Model HHB-10000 RA

Straight-Thru, Track-Mountable, and Right Angle Models available

## Key Features

- Capable of prepping tubes in seconds
- Air-powered beveling with no torque reaction
- Pilot automatically locates on tube or pipe I.D.
- No clamping or loose parts that can fall down tubes
- Handles variety of tubes, materials and applications
- Field changeable pilot and cutterhead saves time
- Carbide blade inserts have multiple cutting edges
- High speed cutterhead spins faster than 5,000 RPM
- Precise end preps without cutting oils
- Field proven tools require very little maintenance



High Speed Hand Held Bevelers prep tubes in seconds, set up is quick and no clamping is necessary.



These high speed straight-thru hand held bevelers provide torque-free operation and feature quick-change tooling. Right angle models are available for getting into tight spaces.



Both the HHB-5,000 and HHB-10,000 Straight Drive models can be hand held or track mounted.

## High Speed Kits include the following:

High Speed Air Motor w/ Oiler, Right Angle Gear Drive, Chip Shield, Chip Guard Bracket, Hose, .500in w/ Filter, Oiler & .375in Coupler, Wrench Set (17mm x 17mm), Carrying Case, Allen Wrench Set, & Operating and Maintenance Instructions. (HHB-10,000RA Right Angle shown)



## Straight-Thru and Right Angle Models

The straight-thru models can machine any degree of bevel on heavy and thin wall tubes, as well as tangent tubes. The most powerful pneumatic high speed end prep tools available anywhere, they can be used by hand or with the EscoTrack mount panel replacement system by using the optional Track Chassis and Post Assembly. With this option, these tools make fast work out of repetitive end preps and cut hours and even days off of boiler tube panel replacement outages.

When you need to get into a "Dutchman" of less than six inches, our right angle models do the job better than ever. The HHB-5000 RA or HHB-10000 RA end prep tools are every bit as rugged as our straight-thru models, and are ideal for single boiler tube repairs. All of these hand held bevelers feature quick-change tooling and the automatic pilot system that locates itself on the tube I.D.

## Fast, Accurate and Easy to Use

These high speed bevelers feature the EscoPilot locating system which eliminates the need for clamping and special operator training. Unlike conventional end prep tools that require clamping to the tube or pipe I.D., these tools locate themselves automatically and there are no loose parts that can fall down the tube and waste your time. Simple to operate, just insert the pilot into the tube I.D., squeeze the throttle and finish your end prep completely in as fast as 3 seconds!

## Specifications

	HHB-5000	HHB-5000 RA	HHB-10000	HHB-10000 RA
Working range to	.450" (11.43 mm) 2.250" (57.15 mm)	.450" (11.43 mm) 2.250" (57.16 mm)	.450" (11.43 mm) 4.00" (101.6 mm)	.450" (11.43 mm) 4.00" (101.6 mm)
Motor, pneumatic	1.5 h.p. (1.122 kw)	1.5 h.p. (1.122 kw)	3 h.p. (2.244 kw)	3 h.p. (2.244 kw)
Air pressure	90 psi (6.2 bar)	90 psi (6.2 bar)	90 psi (6.2 bar)	90 psi (6.2 bar)
Air Volume	50 cfm (1416 lt/min.)	50 cfm (1416 lt/min.)	80 cfm (2265 lt/min.)	80 cfm (2265 lt/min.)
Speed	5000	5000	10000	10000
Radial	1.5" (38.1 mm)	1.9" (48.3 mm)	2.125" (54 mm)	2.5" (63.5 mm)
Working weight	9 lbs.(4.1 kg)	8 lbs.(3.7 kg)	14 lbs.(6.4 kg)	13 lbs.(5.9 kg)
Shipping weight	40 lbs.(18.2 kg)	40 lbs.(18.2 kg)	45 lbs.(20.4 kg)	45 lbs.(20.4 kg)
Track mountable	yes	no	yes	no
Shipping dimensions	27"x18"x7" (686 mm x 457 mm x 177 mm)			
Manufacturer reserves the right to change specifications without notice.				

Part #	Size	O.D. Dimension	Max. Tube O.D.	Min Tube I.D	Insert Size
1050-01	1-1/4" (31.76 mm)	1.600" (40.64 mm)	1.250" (31.76 mm)	.450" (11.44 mm)	1/2" inserts
1050-02	1-1/2" (38.11 mm)	1.850" (46.99 mm)	1.500" (38.11 mm)	.700" (17.79 mm)	1/2" inserts
1050-03	1-3/4" (44.47 mm)	2.100" (53.4 mm)	1.750" (44.47 mm)	.700" (17.79 mm)	5/8" inserts
1050-04	2" (50.81 mm)	2.350" (59.7 mm)	2.000" (50.81 mm)	.950" (24.15 mm)	5/8" inserts
1050-05	2-1/4" (57.16 mm)	2.600" (66 mm)	2.250" (57.16 mm)	1.200" (30.5 mm)	5/8" inserts
1050-06	2-1/4" (63.51 mm)	2.850" (72.4 mm)	2.500" (63.51 mm)	1.450" (36.85 mm)	5/8" inserts
1050-07	2-3/4" (69.87 mm)	3.100" (78.8 mm)	2.750" (69.87 mm)	1.700" (43.2 mm)	5/8" inserts
1050-08	3" (76.21 mm)	3.350" (85.1 mm)	3.000" (76.21 mm)	1.950" (49.55 mm)	5/8" inserts
1050-09	3-1/4" (82.57 mm)	3.600" (91.5 mm)	3.250" (82.57 mm)	2.200" (55.9 mm)	5/8" inserts
1050-10	3-1/2" (88.91 mm)	3.850" (97.8 mm)	3.500" (88.91 mm)	2.450" (62.25 mm)	5/8" inserts
1050-11	3-3/4" (95.27 mm)	4.100" (104.2 mm)	3.750" (95.27 mm)	2.700" (68.59 mm)	5/8" inserts
1050-12	4" (101.61 mm)	4.350" (110.5 mm)	4.000" (101.6 mm)	2.950" (74.95 mm)	5/8" inserts



37-1/2deg cutterheads are standard other angles are available.



Inserts are available with two or four cutting edges and in two sizes, .5in and .625in. Double edge Inserts dispel heat quickly, last longer and perform well on a wide range of boiler tube alloys. Four edge inserts have two extra cutting edges that provide extra economy for beveling Carbon Steel and similar materials.



## Pilots

Blank Pilots can be turned on the job-site to the perfect size. Accurate Pilot size ensures maximum cutting insert life and fast, chatter free bevels.

1050-140 Pilot blank (.400-1.500) available in 1/4" (6.35mm) increments

1050-141 Pilot blank (1.501-2.500) available in 1/4" (6.35mm) increments

1050-142 Pilot blank (2.501-3.500) available in 1/4" (6.35mm) increments

1050-143 Pilot blank (3.501-3.900) available in 1/4" (6.35mm) increments

Factory sized Locating Pilots are precision machined and marked with their exact size.

1050-40 I.D. pilot (range .400-1.500) O.D. & m.w.t., or pipe size & sch. needed

1050-41 I.D. pilot (range 1.501-2.500) O.D. & m.w.t., or pipe size & sch. needed

1050-42 I.D. pilot (range 2.501-3.500) O.D. & m.w.t., or pipe size & sch. needed

1050-43 I.D. pilot (range 3.501-3.900) O.D. & m.w.t., or pipe size & sch. needed



A properly sized Pilot is .015in - .030in under the i.d which is necessary for smooth operation, long blade life and chatter free bevels.