

# "Mini" MILLHOG®

I.D. Clamping End Prep Tool  
1.25" I.D. to 6.625" O.D.  
31.8 mm I.D. to 168.3 mm O.D.

Cuts heavy wall pipe or tube!  
Fast, chatter-free and easy to use...

## Key Features

- Tool rigidly mounts to pipe or tube I. D.
- Self-centering draw rod assembly
- Single gear drive system for optimum performance
- One mandrel covers majority of the cutting range
- Cutter blade locking design eliminates chatter
- Cutter blades index easily for proper set up
- Pneumatically powered with torque-free operation
- Removes tube stub welds and prepares the header
- Automatically squares off the end of pipe or tube
- Produces clean, continuous chip without cutting oils
- Lightweight and simple to operate without special training

## Rugged, Fast and Reliable

Esco MILLHOG® "Mini" Series end prep tools are the most ruggedly built and efficiently designed tools available today for milling heavy wall pipe and tube from 1.25" I.D. to 6.625" O.D. Rigidly mounting to the I.D. by a draw rod clamping assembly which centers the tool automatically, they utilize a ratchet mechanism for feeding the cutter head. Featuring titanium nitride coated cutter blades for smooth milling, without requiring cutting oils, they produce a clean, continuous chip and square off the end of the pipe or tube.



Esco MILLHOG® "Mini" Series end prep tools rigidly mount to the pipe or tube I.D. by a draw rod clamping assembly which centers the tool automatically to produce a clean bevel with a square end.



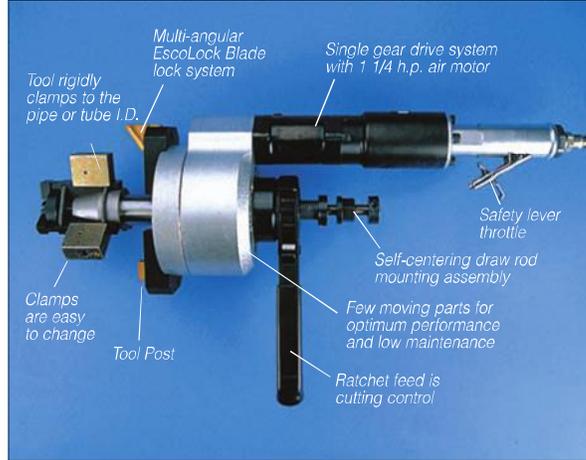
## Mini Standard Kit Includes:

Gear Head, Tool Post, 1-1/4 HP Pneumatic Motor, Draw Rod Assembly, 1.800in Mandrel (1.250in Mandrel may be substituted; consult factory), Hose with couplings, dirt stopper and oiler, and Carrying Case.

## Mini Clamp Rib Selector and corresponding spares

Mandrel, Draw Rod, Actuator, Retention Spring

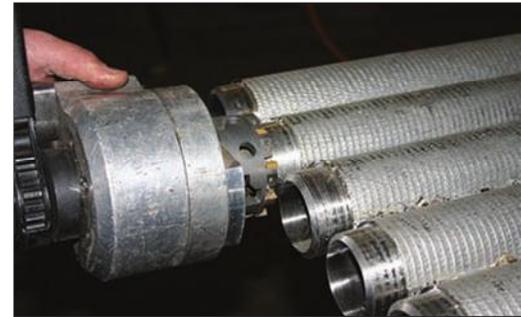
Clamp Set	I.D. Range		Mandrel		Draw Rod	Actuator	Roll Pin	Retention Spring		
	in	mm	Part #	Size						
H-01	1.250	1.600	31.8	40.6	M-361	1.250	M-65	H-12	H-11	H-14B
H-02	1.525	1.925	38.8	48.9	M-361	1.250	M-65	H-12	H-11	H-14B
M-01	1.800	2.270	45.8	57.6	M-36	1.800	M-53	M-46	M-47	M-52
M-02	2.240	2.695	56.9	68.4	M-36	1.800	M-53	M-46	M-47	M-52
M-03	2.665	3.120	67.7	79.2	M-36	1.800	M-53	M-46	M-47	M-52
M-04	3.050	3.500	77.4	88.9	M-36	1.800	M-53	M-46	M-47	M-52
M-02 & M-05	3.415	3.865	86.7	98.1	M-36	1.800	M-53	M-46	M-47	M-52
M-03 & M-05	3.780	4.230	96.0	107.4	M-36	1.800	M-53	M-46	M-47	M-52
M-04 & M-05	4.145	4.595	105.3	116.7	M-36	1.800	M-53	M-46	M-47	M-52
M-02 & M-08	4.510	4.960	114.5	126.0	M-36	1.800	M-53	M-46	M-47	M-52
M-03 & M-08	4.875	5.325	123.8	135.2	M-36	1.800	M-53	M-46	M-47	M-52
M-04 & M-08	5.240	5.690	133.1	144.5	M-36	1.800	M-53	M-46	M-47	M-52
M-02 & M-11	5.605	6.055	142.3	153.8	M-36	1.800	M-53	M-46	M-47	M-52
M-03 & M-11	5.970	6.420	151.6	163.0	M-36	1.800	M-53	M-46	M-47	M-52



Titanium nitride coated cutter blades provide smooth milling, without cutting oils, and produce a clean continuous chip.



Because of our unique EscoLock blade locking system, it is easy to pull a heavy chip on the toughest alloys.



Low RPM and extraordinary torque at the cutting bit make the Mini Millhog a great choice for many tube stub and overlay removal applications.

## Mini Membrane Removal Heads

Membrane Head Size	Part #	Base Head Part#	Inserts	
			Part #	Qty
2.5	MO-113	MMB-113	MRB-8	7
2.75	MO-114	MMB-113	MRB-8	7
3	MO-115	MMB-113	MRB-8	8

## Mini Overlay Removal Heads

Membrane Head Size	Part #	Base Head Part#	Inserts	
			Part #	Qty
2.5	MO-213	MMB-113	MRB-8	7
2.75	MO-214	MMB-113	MRB-8	7
3	MO-215	MMB-113	MRB-8	8

## Tool Post (Holds Cutting Blades(s))

Tool Post Part #	Blade Lock Part #	Blade Lock Qty	Blade Lock Screw	
			Part #	Per Lock
M-68	M-48A	8	M-51	1



Membrane/Overlay heads look similar.



Base Heads mount to the tools drive shaft.

## Specifications

"Mini" MILLHOG®  
Working Range: 1-1/4" (31.8 mm) I.D. to 6-5/8" (168.3 mm) O.D.  
Motor, pneumatic: 1-1/4 h.p. (.9325 kw)  
Air Pressure: 90 psi. (6.2 bar)  
Air Volume: 40 cfm (1133 lt/min.)  
Speed: 34 RPM  
Minimum Clearance: 5-1/4" (133.3 mm)  
Head Length: 13" (330.2 mm)  
Working Weight: 25 lbs. (11.33 kg)  
Shipping Weight: 65 lbs. (29.5 kg)  
Shipping Dimensions: 21" x 18" x 7" (533 mm x 457 mm x 178 mm)  
Manufacturer reserves the right to change specifications without notice.



Overlay heads have a smaller circumference than Membrane heads. Both mount to a base head that can be fitted with a bevel blade.

U.S. Patent 7,938,047