Right Angle I.D. Clamping Tube and Pipe Beveling Tool 0.5" l.D. to 2.25" O.D. 12.7 mm I.D. to 57.15 mm O.D.

Kev Features

- Narrow body 1.5in (38.1 mm) wide for beveling a single tube in a
- Threeinterchangeablemotorchoices, pneumatic, electricand battery
- Rugged steel housing for lasting durability
- Patented clamping system permits the clamps to release as easily as they tighten, no hammer needed!
- Permanentlyattachedwrencheskeeptheoperatingessentialsatthe operator's finger tips
- Dual opposed ball bearing supported gear drive design
- ProprietaryEscoLockbladeholdingsystemminimizesvibrationand maximizes tube and pipe bevels per blade

Popular tube and pipe beveling applications

- Bevel, face and bore
- "J" prep for orbital welding
- Tube to tube sheet weld removal and tube sheet weld preparation
- Boiler tube membrane removal
- Boiler tube overlay and cladding removal
- Boiler tube waterwall single tube replacement
- Reface fin fan tube seat surfaces

Pneumatic Standard

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Works well on all tube and pipe alloys including stainless steel.



Pneumatic Air Clamp Quickly clamps and releases, reduces cycle between bevels.



Only 1.5" wide for single boiler The air clamp increases tubé beveling production and minimizes operator fatique

Designed for limited access boiler tube beveling

The ESCO Ground MILLHOG "is a right angle | D. clamping tube beveling tool that is only 1.5 in (38.1 mm) wide and fits between boiler water wall tubes for beveling a single tube and other boilertube applications with restricted access. The tool is made of heattreatedsteelfordurabilityandproprietarybearingssupportheavy duty gears for smooth operation and long durability on the toughestboiler applications.

Thepatentedpull-pushclampandreleasesystemwithpermanently attached wrenches and clamps eliminate the possibility of loosepartsfallingdownthetubes. This high performance to olutilizes the EscoLockwedges tyleblade lock system and TiN coated blades for a contract of the contract ofchatter-free beveling.

Powerchoicesincludepneumatic, electricand battery. All motors $are \, easy \, to \, switch \, and \, deliver \, optimum \, torque \, and \, speed \, that \,$ reduces be veltime by pulling a thick chip on the toughest boilertube alloys, without cutting fluids.

Electric

Reliable plug in power, high torque and low rpm. Superior performance on all alloys including membrane and overlay removal.





Remove membrane from between tubes

Excellent for beveling all alloys including overlay and membrane removal. Best of all it's hose and cord free





Remove membrane and overlay/ cladding from between tubes

Ground AILLHOG

Right Angle I.D. Clamping Tube and Pipe Beveling Tool 0.5" I.D. to 2.25" O.D. 12.7 mm l.D. to 57.15 mm O.D.

Ground Clamp Rib Selector and corresponding spares Mandrel, Draw Rod, Actuator, Retention Bands and Springs

Clamp	I.D. Range				Ma	ndrel	Draw		Roll	Rete	ntion
Rib Set	i	n	m	m	Part #	Size (in)	Rod	Actuator	Pin	Band	Spring
G-01A	.500	.655	12.7	16.6	G-204	.500	G-18A	G-17A	G-15A	G-14E	
G-02A	.625	.780	15.9	19.8	G-204	.500	G-18A	G-16A	G-15A	G-14F	
G-02A	.625	.780	15.9	19.8	G-20	.625	G-18	G-16	G-15	G-14F	
G-03A	.750	.905	19.1	22.9	G-20	.625	G-18	G-17	G-15	G-14F	
G-04	.875	1.030	22.3	26.1	G-20	.625	G-18	G-17	G-15		G-14
G-05	1.00	1.155	25.4	29.3	G-20	.625	G-18	G-17	G-15		G-14
G-06	1.125	1.280	28.6	32.5	G-20	.625	G-18	G-17	G-15		G-14
G-07	1.250	1.405	31.8	35.6	G-20	.625	G-18	G-17	G-15		G-14
G-08	1.395	1.530	35.0	38.8	G-20	.625	G-18	G-17	G-15		G-14
G-09	1.500	1.655	38.1	42.0	G-20	.625	G-18	G-17	G-15		G-14
G-10	1.625	1.780	41.3	45.2	G-20	.625	G-18	G-17	G-15		G-14
G-11	1.750	1.905	44.5	48.3	G-20	.625	G-18	G-17	G-15		G-14
G-12	1.875	2.030	47.7	51.5	G-20	.625	G-18	G-17	G-15		G-14
G-13	2.000	2.155	51.0	54.7	G-20	.625	G-18	G-17	G-15		G-14



Roll Pin & Actuator G-15A, G-I7A & G-I6A

0.500" Mandrel & Draw Rod G-204 & G-18A (Used with G-01A & G-02A Clamp Rib Set)

Roll Pin & Actuator

G-15, G-16 & G-17

0.625" Mandrel & Draw Rod G-20 & G-18 (Used with G-02A - G-13 Clamp Rib Set)

Ground Cutterhead Blade Lock and Screw

Cutte	rhead	Mar	ıdrel	Blad	le Lock	Lock Screw	
Part #	Size	Part #	Size	Part #	Per Head	Part #	Per Lock
G-206	1.500	G-204	.500"	G-22	2	G-21	1
G-23	1.500	G-20	.625"	G-22	2	G-21	1
G-24	2.000	G-20	.625"	G-22A	2	G-21	1
G-25	2.250	G-20	.625"	G-22	4	G-21	1



Cutter Blade rigidly, reduce vibration and heat resulting in superior Cutter Blade life without cutting oils.









Ground Membrane Removal Heads

Qty
Qty
3
4
4
4
4

Ground Overlay Removal Heads

Overlay		Base	Inserts		
Head		Head	IIISELLS		
Size Part	# Pa	rt#	Part #	Qty	
.875 MO-	200 GI	3-100	MRB-8	3	
1.000 MO-	201 GF	3-101	MRB-8	4	
1.125 MO-	202 GI	3-102	MRB-8	4	
1.187 MO-	203 GF	3-103	MRB-8	4	
1.250 MO-	204 GI	3-102	MRB-8	4	



derogating the tube O.D.



Membrane/Overlay Heads remove membrane from be and also weld overlay from the tube O.D.

The ESCO patented Membrane and Overlay Removal Heads use round inserts with a tapered



shank that install with a tap from a hammer. They



Specifications: Ground MILLHOG®

Specifications: Ground Milet 100								
Working Range .5in (12.7 mm) I.D. to 2.25in (57.15 mm) O.D.								
Motor	Pneumatic	Air Clamp	Electric	Battery / *Charger				
	1.07 hp (800 W)	1.07 hp (800 W)	120 V 8.5 A 50/60 Hz 950 W, or	18V Li-lon - up to 5.2 Ah				
	90 psi (6.2 bar)	90 psi 6.2 bar	220 - 240 V 4.4 A 50/60 Hz 950 W	*115V / 60 Hz, or				
	35 cfm (990 lt/min)	35 cfm 990 lt/min		*220 - 240 V 50-60 Hz				
Speed	125 rpm	125 rpm	12 rpm - 63 rpm	49 rpm				
Minimum Width Clearance								
With 1.5in Cutterhead	1.5in (38.1 mm)	3.625in (92.1 mm)	1.5in (38.1 mm)	1.5in (38.1 mm)				
Membrane and Overlay heads	1.875in (47.6 mm)	3.625in (92.1 mm)	1.875in (47.6 mm)	1.875in (47.6 mm)				
Head Length	14in (355.6 mm)	16in (406.4 mm)	14in (355.6 mm)	14in (355.6 mm)				
Working Weight	12.7 lbs (5.8 kg)	15.05 lbs (6.8 kg)	14.1 lbs (6.4 kg)	14.6 lbs (6.6 kg)				
Shipping Weight	40 lbs (18.1 kg)	45 lbs (20.1 kg)	42 lbs (19.1 kg)	42 lbs (19.1 kg)				
Shipping Dimensions	hipping Dimensions 20in x 18in x 5 in		24in x 20in x 6in	24in x 20in x 6in				
	508 mm x 457 mm x 127 mm	610 mm x 508 mm x 178 mm	610 mm x 508 mm x 152 mm	610 mm x 508 mm x 152 mm				

Formed Cutter Blades are made from T-15 Tool steel and are available in many sizes and for all pine and tube heve



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