

# Air Powered Boiler Saw

# MILLHOG®

Standard APS-438  
Low Profile APS-438LP

ESCO APS Air Powered Boiler Saws and accessories cut boiler tube panels, boiler tube membrane and pendant tubes. They also squarely cut pipe, concrete pilings and storage tanks.

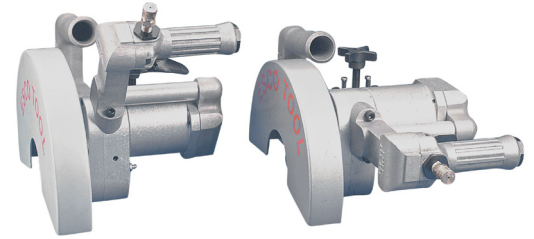
## Key Features

- Provides clean, accurate, straight cuts with no "HAZ" (Heat Affect Zone) when cutting boiler tube panels
- Easy to set up and operate
- Cuts tough materials with a high percentage of chrome and tubes with overlay or cladding
- Glides smoothly on easy to install EscoTrack for boiler tube panel cutting
- Rotates easily for membrane removal
- Eliminates rework and grinding before beveling
- Powerful 3 hp pneumatic motor operates on 90 psi shop air and uses only 80 cfm
- Ergonomic design provides optimum balance of speed and torque
- Ideal for many applications requiring straight and accurate cuts

## Boilermaker Tough and Field Proven

The MILLHOG® Air Powered boiler tube panel saw effortlessly glides along the 5 foot steel EscoTrack System that is attaches to a boiler tube panel section using weld tabs. The saw's powerful pneumatic motor and proprietary reinforced fiberglass abrasive saw blade cut all boiler tube alloys efficiently and makes both horizontal and vertical cuts. After completing a horizontal cut, simply remove the saw, rotate it 90° and reinstall it on the track. For even faster membrane removal, use the membrane removal bracket and available 0.250" (6.35 mm) or 0.375" (9.53 mm) membrane removal blades.

Combining a MILLHOG® tube beveling tool equipped with a membrane or membrane and overlay (cladding) removal head, the tube end prep and its O.D. are quickly and economically prepared for welding.



The Standard and Low Profile Boiler Tube Panel Saws



APS-438 Standard Boiler Tube Panel Saw



APS-438LP Low Profile Boiler Tube Panel Saw

Designed for cutting pendant tube panels in tight spaces using the EscoTrack System, this model requires a 7.5" (191 mm) clearance.



The Standard APS can also achieve perfect cuts on contoured and cylindrical structures, steel plate and pipe from 6.0" to 60.0" with available accessories.

## Specifications: Air Powered Boiler Saw

Model	APS-438 Standard	APS-438LP Low Profile
Motor	3 hp (2237 W)	3 hp 2237 W)
Air Pressure	90 psi (6.2 bar)	90 psi (6.2 bar)
Air Volume	80 cfm (2265 lt/min)	80 cfm (2265 lt/min)
Speed	5050 rpm	5050 rpm
Radial Clearance	13.5in (343 mm) with 12in blade fully plunged into tube	7.5in (191 mm) with 10in blade fully plunged into tube
Cut Depth	4.375in (111.13 mm)	3.375in (85.7 mm)
Working Weight	28 lbs (12.7 kg)	28.5 lbs (13 kg)
Shipping Weight	65 lbs (29.5 kg)	65 lbs (29.5 kg)
Track 5 ft (1,524 mm)	19 lbs (9 kg)	19 lbs (9 kg)
Shipping Dimensions	19in (483 mm)	19in (483 mm)
	27in x 15in x 11in	27in x 15in x 11in
	686 mm x 381 mm x 254 mm)	686 mm x 381 mm x 254 mm)
Track	66in x 3in (1676 mm x 77 mm)	66in x 3in (1676 mm x 77 mm)



The HHB series of boiler tube bevelers can use the same track set-up as the APS panel cutting saws.

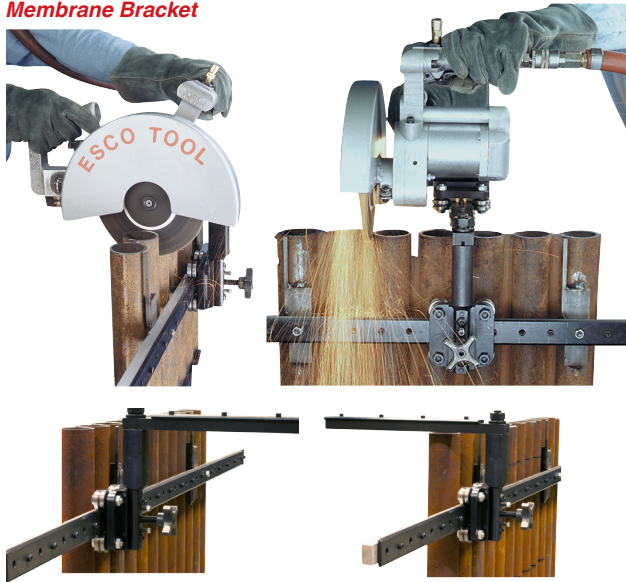


# Air Powered Boiler Saw

# MILLHOG®

Standard APS-438  
 Low Profile APS-438LP  
 Membrane Bracket, Quick Clamp  
 Chain Mount Tabs, Track Connector  
 Vertical Track Attachment, Blades, Accessories

## Membrane Bracket



The Membrane Bracket slides onto the standard track and the APS-438 Standard or APS-438LRC is mounted for quickly removing membrane from between tubes. The Membrane Bracket Track can be set up in two different positions.

## Quick Clamp



The Quick Clamp attaches to the standard track and securely grips the boiler tube panel for making perfectly square cuts.

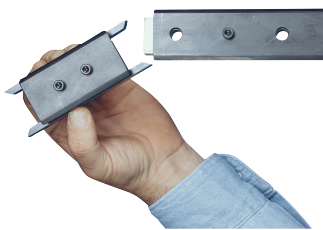


The Quick Clamp attaches the standard track to the panel without tack welding and is a popular option for working on boiler tube panels before installation.

## Chain Mount Tab



## Track Connector



Straight track can be mounted in numerous cutting positions and sections can be joined using the Track Connector. The flex track works on warped boiler tube panels and is useful for many other applications that include contour and serpentine surfaces.

## Vertical Track Alignment



The APS-438 Saw moves up and down on the Vertical Track Attachment for cutting membrane from between boiler tubes and the attachment can be slid horizontal on the standard track for precise alignment. Two brakes, one on the APS-438 Saw and one on the Vertical Track Attachment enable secure and stable cutting.

## Cut-Off Blades and Membrane Removal Blades

Saw blades are available in a variety of widths and diameters and made to cut a wide range of material from super duplex to concrete lined ductile iron pipe to boiler tubes with inconel overlay.



## Air Powered Saws Depth of Cut for Boiler Tube Panels

Boiler Tube Panel	
4.375in (111.1 mm) Max cut depth	APS-438 w/5' Track and 12in Cut-Off Blade
2.375in (60.33 mm) Max cut depth	APS-438LP Low Profile w/5' Track and 10in Cut-Off Blade
Flex Track	
Tanks, serpentine surfaces	
4.0in (101.6 mm) Max cut Depth	APS-438 w/6 (ft) Flex track and 12in Cut-Off Blade

# Air Powered Pipe, Piling & Storage Tank Cutting Saw



Standard APS-438  
Low Radial Clearance APS-438LRC

## Cut all alloys of steel pipe without "HAZ"

ESCO APS-438 and APS-438LRC Low Radial Clearance Air Powered Saws cut all alloys of steel pipe including ductile iron concrete lined pipe, concrete pilings and storage tanks perfectly square and without a "HAZ" (Heat Affect Zone).

### Key Features

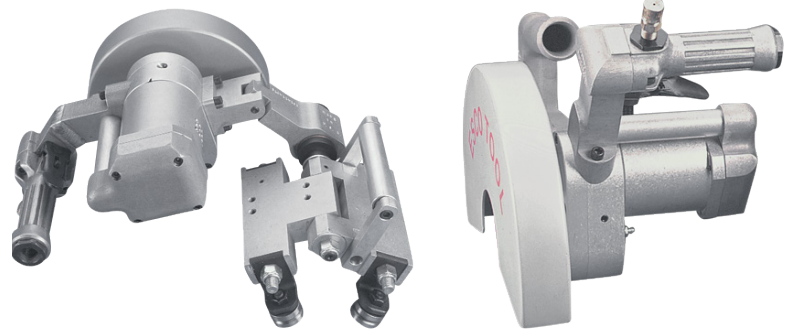
- Perfectly square cuts with no "HAZ" on pipe from 6.0"– 60.0" using EscoWrap Tracks
- Low Clearance, only 6.25" (158.75 mm) with the APS-438LRC
- Using the Universal Pipe Trolley the Standard APS-438 boiler saw can be used on the EscoWrap Track
- Scores concrete pilings for trimming to length
- Cuts concrete lined steel and ductile iron pipe cleanly
- Powerful 3 hp pneumatic motor
- The Flex Track attaches by tack welds to the side of any straight, contoured or cylindrical structure with a radius of 2.5 ft. or larger

### Easily configured for a wide variety of applications

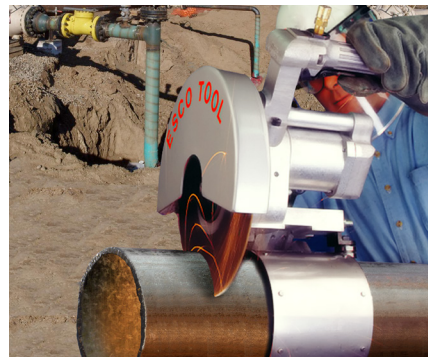
The MILLHOG® Air Powered APS-438LRC Low Radial Clearance and Standard APS-438 are operator friendly and effectively cut pipe and other metal structures perfectly straight with no "HAZ".

EscoWrap Tracks securely clamp to the pipe O.D. and the trolley is attaches to it for mounting the saw. This ultra-stable platform permits the operator to easily move the saw around the circumference to produce a clean, perfectly square cut. The Standard APS-438 with a pipe trolley and APS-438LRC are recommended for use with EscoWrap Tracks.

Flex Tracks are attached to straight, contoured, cylindrical and serpentine surfaces by tack welding. The saw then slides onto it and the operator can easily and safely control the powerful cutting action for precise cuts.



The APS-LRC requires 6.0" (152.4 mm) clearance with Cut-Off blade plunged into pipe and has a cutting depth of 2.0" (50.8 mm).

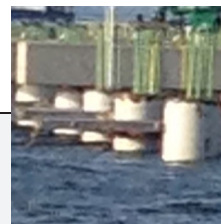


APS-438 cuts 8.0" pipe cleanly and square with no "HAZ" and has a cutting depth of 4.0" (101.6 mm) using a 12.0" Cut-Off Blade.

### Air Powered Saws Depth of Cut for Boiler Tube Panels

Model	APS-438 Standard	APS-438LRC Low Radial Clearance
Motor	3 hp (2237 W)	3 hp (2237 W)
Air Pressure	90 psi (6.2 bar)	90 psi (6.2 bar)
Air Volume	80 cfm (2265 lt/min)	80 cfm (2265 lt/min)
Speed	5050 rpm	5050 rpm
Radial Clearance	13.5in (343 mm) with 8in blade fully plunged into pipe	6in (152.4 mm) with 8in blade fully plunged into pipe
Cut Depth	4.375in (111.13 mm)	2.375in (60.3 mm)
Working Weight	28 lbs (12.7 kg)	30 lbs (13.6 kg)
Shipping Weight	65 lbs (29.5 kg)	68 lbs (30.85 kg)
Track 5 ft (1,524 mm)	19 lbs (9 kg)	
	19in (483 mm)	N/A
Shipping Dimensions	27in x 15in x 11in	27in x 15in x 11in
	686 mm x 381 mm x 254 mm)	686 mm x 381 mm x 254 mm)
Track	66in x 3in (1676 mm x 77 mm	66in x 3in (1676 mm x 77 mm

The Flex Track attaches to straight, contoured, cylindrical and serpentine surfaces for making accurate square cuts with no "HAZ".

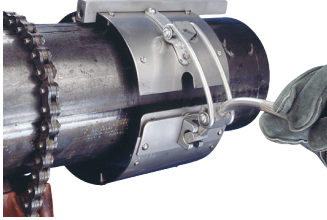


Scoring concrete pilings for height trimming. Concrete Cut-Off Blades are available in Diameters of up to 14".

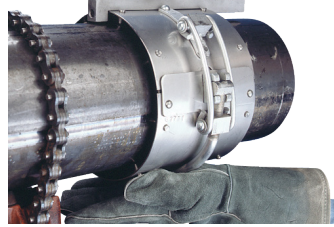


## ESCO Wrap Track, Trolley and Standard APS-438 system is simple to use.

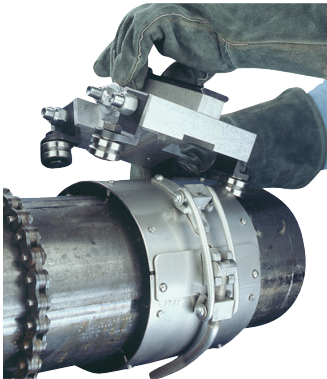
Wrap Tracks are available in standard pipe sizes for pipe from 6.0" to 60.0".



Mount the Wrap Track to the pipe



Clamp into position



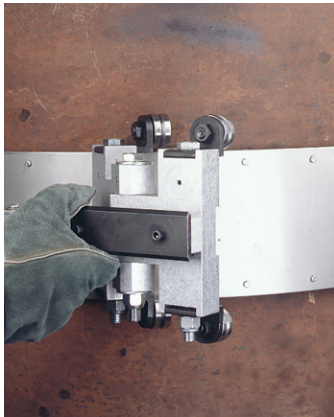
Mount Trolley



Adjust and Secure



Mount saw to trolley



Trolley is adjustable to fit all Esco Wrap Tracks



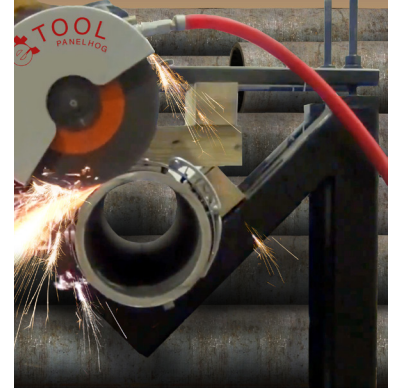
The Esco Wrap Track provides a stable platform for mounting the 3hp air driven saw and produce a clean perfectly square cut.



Set up and make a perfectly square cut on 10" sch. 160 pipe in under 10 minutes.



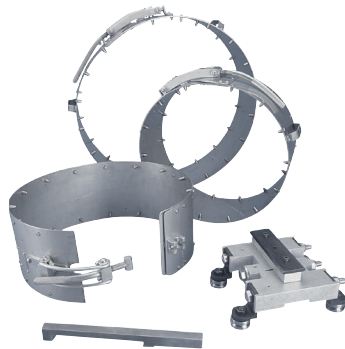
The Single-Cut Bracket turns the panel saw into a portable chop saw for quickly and accurately cutting pipe, tube or solid stock up to 4.0" O.D.



Concrete lined pipe can be cut cleanly. See the Video on our website showing this APS-438LRC with a 12" cut-off blade cutting this 8" concrete lined ductile iron pipe.



Flex Tracks attach to warped boiler tube panels and storage tanks and can be used for many applications requiring straight cuts. 6 ft lengths are standard.



Wrap Tracks are made of stainless steel for standard pipe sizes. Special sizes can be made to specification.

### Wrap Track Selections

Part No.	EscoWrap Tracks
EW-06	EscoWrap Tracks, 6in
EW-08	EscoWrap Tracks, 8in
EW-10	EscoWrap Tracks, 10in
EW-12	EscoWrap Tracks, 12in
EW-14	EscoWrap Tracks, 14in
EW-16	EscoWrap Tracks, 16in
EW-18	EscoWrap Tracks, 18in
EW-20	EscoWrap Tracks, 20in
EW-22	EscoWrap Tracks, 22in
EW-24	EscoWrap Tracks, 24in
EW-26	EscoWrap Tracks, 26in
EW-28	EscoWrap Tracks, 28in
EW-30	EscoWrap Tracks, 30in
EW-32	EscoWrap Tracks, 32in
EW-34	EscoWrap Tracks, 34in
EW-36	EscoWrap Tracks, 36in
EW-38	EscoWrap Tracks, 38in
EW-40	EscoWrap Tracks, 40in
EW-42	EscoWrap Tracks, 42in
EW-44	EscoWrap Tracks, 44in
EW-46	EscoWrap Tracks, 46in
EW-48	EscoWrap Tracks, 48in
EW-50	EscoWrap Tracks, 50in
EW-52	EscoWrap Tracks, 52in
EW-54	EscoWrap Tracks, 54in
EW-56	EscoWrap Tracks, 56in
EW-58	EscoWrap Tracks, 58in
EW-60	EscoWrap Tracks, 60in
EW-60	EscoWrap Tracks, 60in

### Air Powered Saws Depth of Cut for Pipes

Pipe Cutting - 6 - 60 (in)	4.0 (101.6 mm) Max cut depth	APS-438 w/ independent Pipe Trolley and 12in Cut-Off Blade APS-438LRC Low Radial Clearance w/ built in Pipe Trolley and 8in Cut-Off Blade
	2.0 (50.8 mm) Max cut depth	
Flex Track	Tanks, serpentine surfaces	APS-438 w/6 (ft) Flex track and 12in Cut-Off Blade
	4.0in (101.6 mm)	