



Diamond Wire Saw

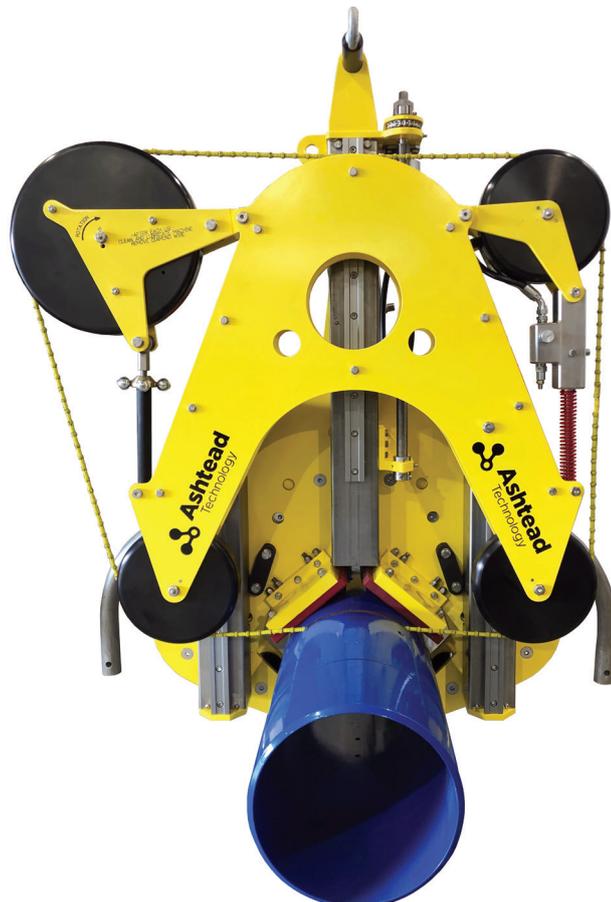
Subsea hydraulic diamond wire saw

Running on hydraulic power, the wire saw is controlled remotely using the Topside Control Panel (TCP), HPU with integrated TCP or by ROV control operable via zero leak hot stabs.

Ashtead Technology Diamond Wire Saws feature a unique hydrodynamic design that dramatically reduces centrifugal forces during operation, which means less power wasted in churning water and more power directed to cutting the work piece.

The Ashtead Technology Diamond Wire Saw features a unique self-adjusting auto feed system that controls wire bend and automatically matches the feed rate to the cutting rate. With the ability to adjust the feed until the cutting action catches up, Ashtead Technology DWS delivers more efficient cutting action with enhanced operator safety and greatly extended wire life.

In addition, the saw is equipped with a fully adjustable power clamping system, designed to grasp the work piece more accurately with fewer contact pads. It features two synchronised hydraulically actuated clamping arms that pivot inward, providing easy and secure remote control mounting. Synchronised clamping arms ensure uniform, square and secure mounting and prevent damage to the arms from unequal forces. Because the machine mounts more accurately, less visual supervision is required.



Applications

Cutting of horizontal or vertical pipe, casings and structures

Features

Lightweight aluminium plate construction

Five models cut from 4in to 84in O.D. (DN100-2100)

Easily replaceable long life diamond wire cutting element

Hydraulically operated synchronised clamping arms

Self adjusting automatic feed system

Overload clutch for bow damage prevention

Corrosion resistant with anode protection

Mounts vertically or horizontally

In the box

Diamond Wire Saw

Operations and maintenance manual

Diamond Wire Saw

Specifications



System function	Designed to cut submerged pipe, casing and structure of varying materials and thicknesses using a high speed rotating diamond wire loop cutting element
System capacity	Five models designed to cut from 4in to 84in O.D. (DN100-2100)
Cutting wire	Quick change continuous loop diamond wire cutting element
Cutting wire speed	Variable, 0-1,500rpm
Drive options	Hydraulic only
Power requirements	20gpm @ 2500psi (76lpm @ 172bar) varies by model and application
Feed method	Automatic self-adjusting feed control with screw drive and manual override
Feed rate	Variable based on workpiece material and density
Construction	Lightweight aluminum plate construction, constant tension bow feed, three hydraulic drive circuits - cutting, feed, and clamp drive.
Finish	Corrosion resistant powder coated aluminum frame plates, black anodised aluminium select components, and stainless steel hardware
Clamping pads	User replaceable crush resistant urethane clamping pads
Wire guides	User replaceable durable urethane inserts

Model number	DWS 1604	DWS 3012	DWS 3616	DWS 5230	DWS 8460
Max pipe capacity	16in (406mm)	30in (762mm)	36in (914mm)	52in (1321mm)	84in (2134mm)
Min pipe capacity	4in (102mm)	12in (305mm)	16in (406mm)	30in (762mm)	60in (1524mm)
Height	55in (1397mm)	82.5in (2096mm)	92.5in (2350mm)	127in (3226mm)	205in (5207mm)
Width	44in (1118mm)	63.75in (1619mm)	69.75in (1772mm)	87.25in (2216mm)	118.8in (3017mm)
Depth	28in (711mm)	30in (762mm)	32in (813mm)	43in (1092mm)	43in (1092mm)
Weight	730lbs (331kg)	1000lbs (454kg)	1200lbs (544kg)	1600lbs (726kg)	Call
Product part no.	10-010-516	10-010-530	10-010-536	10-010-552	10-010-584
Replacement wire	09-071-710	08-011-710	08-051-710	08-021-710	08-031-710

