



# Deepwater Diamond Wire Saw

## Subsea hydraulic diamond wire saw

Running on hydraulic power, the DWDWS is controlled remotely using the Topside Control/ Hydraulic Power Unit or by ROV control operable via zero leak hot stab with flying lead.

The ergonomic design of the ROV side interface panel allows for simple operation with feedback in the form of flow meters and pressure gauges. Built-in flotation utilises a compact design that does not significantly increase the saws footprint over Ashtead Technology DWS models. Like the DWS the Deepwater DWS features a self-adjusting auto feed system that automatically matches the feed rate to the cutting rate. They are ideal for compressive cuts, or for use on mixed material such as multi-strand steel and concrete casings.

## Applications

Cutting of horizontal or vertical pipe, casings and structures

## Features

Easily replaceable, long life diamond wire cutting element

Hydraulically operated synchronised clamping arms

Anti-slip hardened steel clamp grippers

Self adjusting automatic feed system with override clutch

Flotation rated to 3000 meters (9843 sfw)

Fiberglass encapsulated flotation

No significant increase to footprint

Centre of buoyancy coincident to centre of gravity

5 compliant ROV handles

Aluminium "mono-block" control manifold

Single zero leak hot stab with 20 ft (6m) flying lead

Simple and intuitive (colour coded)

ROV interface panel equipped with pressure gauges and flow meters

Heavy duty pressure compensated shipping/deployment basket (optional)

## In the box

Deepwater Diamond Wire Saw

Operations and maintenance manual



# Deepwater Diamond Wire Saw

## Specifications



System function	Designed to cut submerged pipe of varying materials and thicknesses using a high speed diamond wire loop cutting element
System capacity	Three models designed to cut from 4 inch - 52 inch O.D. (DN100-1300)
Depth capacity	3000msw (9843fsw)
Weight in water	Neutral to 100lbs (45.36kg) negative (adjustable)
Cutting wire	Quick change continuous loop diamond wire cutting element
Cutting wire speed	Variable, 0-1,500rpm
Drive options	Hydraulic only
Power requirements	Hydraulic requirements 20gpm @ 2500psi (76lpm @ 172bar) varies by model
Feed method	Automatic self-adjusting feed control with screw drive and manual override
Feed rate	Variable based on work piece material and density
Construction	Syntactic flotation over high strength alloy plate, constant tension bow feed, three hydraulic drive circuits - cutting, feed and clamp drive.
Finish	Corrosion resistant powder coated aluminium with anode protection with stainless steel hardware and painted fiberglass shell
Clamping pads	User replaceable crush resistant urethane clamping pads
Wire guides	User replaceable durable urethane inserts
Optional	Custom shipping/deployment basket with pressure compensation

Model number	DWDWS 1604	DWDWS 3616	DWDWS 5230
Max pipe capacity	16in (406mm)	36in (914mm)	52in (1321mm)
Min pipe capacity	4in (102mm)	16in (406mm)	30in (762mm)
Height	62in (1575mm)	83in (2108mm)	118in (2997mm)
Width	53in (1346mm)	72in (1829mm)	87in (2209mm)
Depth	46in (1168mm)	42in (1041mm)	55in (1397mm)
Weight (in air)	1200lbs (544kg)	2000lbs (908kg)	2400lbs (1089kg)
Product part no.	10-10-516-ROV	10-10-536-ROV	10-10-552-ROV
Replacement wire	P09-071-710	P08-051-710	P08-021-710
Deployment basket	H11-029-000	H11-029-000	H11-029-001