

# Diamond Wire Saws

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## **DESCRIPTION:**

The Wachs Subsea Diamond Wire Saws are designed for underwater cutting of horizontal or vertical pipe, with only four models needed to cut 4" to 84" O.D. (DN100-21). Running on hydraulic power, the wire saw is controlled remotely using the Wachs Topside Control Panel (TCP) or by ROV control operable via zero leak hot stabs.

All our Diamond Wire Saws features a patent pending hydrodynamic design that dramatically reduces centrifugal forces during operation, which means less power wasted in churning water and more power directed to cutting the workpiece.

## **PATENT PENDING FEED SYSTEM:**

The Wachs Diamond Wire Saw is the only machine of its kind with a patent pending, self-adjusting feed system that controls wire bend and automatically matches the feed rate to the cutting rate. With the ability to adjust or stop the feed entirely until the cutting action catches up, it delivers a more efficient cutting action with enhanced operator safety and greatly extended wire life.

## **SPECIFICATIONS:**

System Function: Designed to cut submerged pipe of varying materials and thicknesses using a high speed rotating diamond wire loop cutting element

System Capacity: Four models designed to cut from 4" to 84" 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: Hydraulic requirements 15GPM 2000 PSI (57 LPM 138 BAR) varies by model and application

Feed Method: Automatic self-adjusting feed control with screw drive and manual override

Feed Rate: Variable based on work piece material and density

Construction: Lightweight aluminum plate construction, constant tension bow feed, three hydraulic drive circuits - cutting drive, feed drive and clamp drive

Finish: Corrosion resistant satin finish aluminum with anode protection and stainless steel hardware

Clamping Pads: User replaceable crush resistant nylon clamping pads

Wire Guides: User replaceable durable nylon inserts

Included Accessories: Operating manual and hand tools

**DESIGN HIGHLIGHTS:**

- Lightweight planetary feed drive
- Large diameter high contact area wire drive wheels
- Hydraulic wire drive motor w/overhung bearing support
- Lift interfaces for vertical or horizontal deployment
- Lightweight aluminum plate construction
- User replaceable clamp contact pads and wheel inserts

The Wachs Subsea Diamond Wire Saw is not available for sale or rental in the United Kingdom, Denmark, France, Germany, Italy, Norway or the Netherlands.

<b>Model Number</b>	<b>WS-1604</b>	<b>WS-3012</b>	<b>WS-3616</b>	<b>WS-5230</b>	<b>WS-8460</b>
Maximum Pipe Capacity	16" (406mm)	30" (762mm)	36" (914mm)	52" (1321mm)	84" (2134mm)
Minimum Pipe Capacity	4" (102mm)	12" (305mm)	16" (406mm)	30" (762mm)	60" (1524mm)
Height	55" (1397mm)	82.5" (2096mm)	92.5" (2350mm)	127" (3226mm)	205 (5207mm)
Width	44" (1118mm)	63.75" (1619mm)	69.75" (1772mm)	87.25" (2216mm)	118.8 (3017mm)
Depth	28" (711mm)	30" (762mm)	32" (813mm)	43" (1092mm)	43" (1092mm)
Weight Ibs/Kg	730/331	1000/454	1200/544	1600/726	call
Replacement Wire	09-071-700	08-011-700	08-051-700	08-021-700	08-031-700