

AXE Cutting System Overview

The Well Ops SEA AXE is a high pressure water jet cutting system specifically designed for subsea use.

The AXE uses entrained grit water jet technology and operates at 10,000 to 14,000 psi system pressure. The AXE, primarily designed for severance of multi-casing wellheads is also used to cut jacket piles and caissons. Existing tooling is capable of entering and cutting wellheads with 7" casing and severing through the 7", 9 5/8", 13 3/8", 20" and 30" in a single pass cut.

The system operates independently from vessel or rig services and is powered by a 450 bhp diesel power pack. The cutting tool can be deployed from a rig or work vessel with a simple A-frame or crane.

The system is made up of several skids to reduce the weight of each component and allow flexible deck configuration when deck space is limited.

Applications

Wellhead removal, platform conductor cutting, pile cutting.

Sever typical 7", 9 5/8", 13 3/8", 20" and 30" cased wellhead in a single pass.

Features

Inert Consumables

Simple, robust, proven technology

Integral power pack

Designed by subsea engineers for offshore use

Benefits

Environmentally friendly

Eliminates use of explosives

Independent of vessel services



AXE Entrained Grit Cutting System

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Technical Specification

Engine	Cummins NTA855 (450 bhp)
Fuel Consumption	95 L / hour (max)
Nominal Flow rate	150 L/min
Maximum Working Pressure	14500 psi (1000 bar)
Grit Consumption	1.7 tonnes per hour
Total System Mass	27 tonnes approx, <i>plus project consumables</i>
AXE System Components	Cutting Tool Skid
<i>Please refer to individual spec sheets for details. All components have dedicated 4 leg sling sets.</i>	High Pressure Pump Skid
	Vessel Skid
	Workshop Container
	Umbilical Reeler Skid
	Slurry Pump Skid
	Tooling Container

Certification

Lifting	All skids APPEA compliant
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