



**WOR-LIFTS**



**Hydraulic Cutting Equipment**



## Hydraulic Cutting Equipment: End User Clients

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AEA Technology



bluewater



British Nuclear Group



ExxonMobil





## Hydraulic Cutting Equipment: **Contents**

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**Introduction**

**Page 4**



**Hydraulic Cutter Heads**

**Page 5**



**Hydraulic Cutter Units**

**Page 6**



**Hydraulic Guillotine Cutters**

**Page 7**



**Special Purpose Hydraulic Cutters**

**Page 8**



**Case Studies**

**Page 9**



# WOR-LIFTS



## Hydraulic Cutting Equipment: **Introduction**

**JAG Hydraulic Cutting Equipment** has been designed and manufactured to excel in Safety, Quality, Durability and Ease of Use to ensure total customer satisfaction.

JAG is the UK's leading manufactured hydraulic Equipment Brand and has increased operator safety when working in hazardous environments by using enclosed moving parts and creating zero emissions when cutting. It has also increased productivity by using a fast non-jamming guillotine cutting action and a high pressure hydraulic system to give the ultimate cutting performance.

**JAG Hydraulic Cutting Equipment** has a proven track record within the following industries:

- Manufacturing / Mining / Construction and Demolition/ Recycling
- Offshore Oil and Gas Production, Exploration and Decommissioning
- Sub-sea Engineering Exploration and Decommissioning
- Nuclear Power Generation and Decommissioning

**JAG Hydraulic Cutting Equipment** can be used to cut the following materials:

- Wire/ Wire Rope/ Nylon and Hemp Hawser/ Conductor String
- Cable/ Power Cable/ Umbilical Cable
- Reactor Fuel Rods/ Bar/ Reinforcing Bar/ Tube
- Chain/ Nuts/ Bolts/ Rivets/ Pipe
- Exhaust Systems/ Tyre Bead
- Structural Section/ Plate/ Nylon and Kevlar Rope

Plus a broad range of associate materials which are also within the equipment's cutting capacities.

**JAG Hydraulic Cutting Equipment** has been specifically engineered to meet the toughest production requirements and is ideally suited to operate in intense production applications. All equipment is designed to operate up to a maximum working pressure of 10,000 psi and is manufactured to meet with CE specifications.

## Hydraulic Cutting Equipment: **Cutter Heads**

**JAG Hydraulic Cutter Heads** are designed as compact cutters for close up precision cutting operations with single acting cylinders for simple operation. The straight edged double bladed cutting system helps to maximize the power to weight ratio for cutting:

- Chain / Wire / Reinforcing Bar and Tyre Bead

The cutting equipment is designed with a built in 4:1 safety factor and is manufactured to a rigorous quality procedure, proof tested and certified to meet with current CE specifications. All the cutting equipment is designed to operate up to a maximum working pressure of 10,000 PSI. The cutting equipment has a proven track record within:

- Manufacturing / Mining / Recycling / Construction and Demolition
- Offshore Sub-sea Engineering / Oil /Gas production, exploration and decommissioning

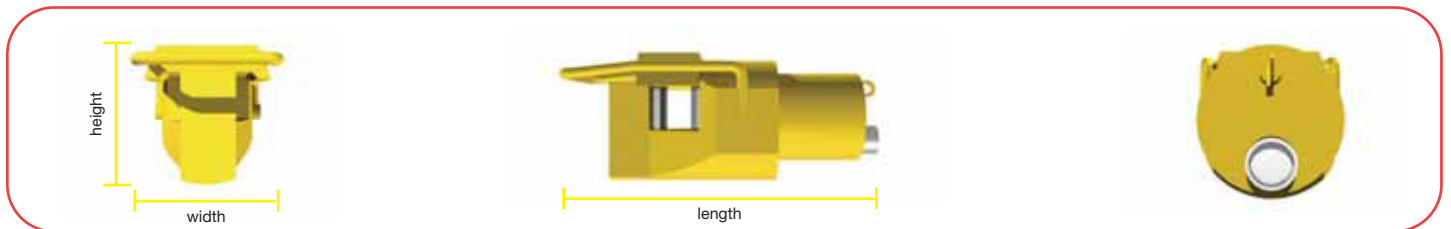
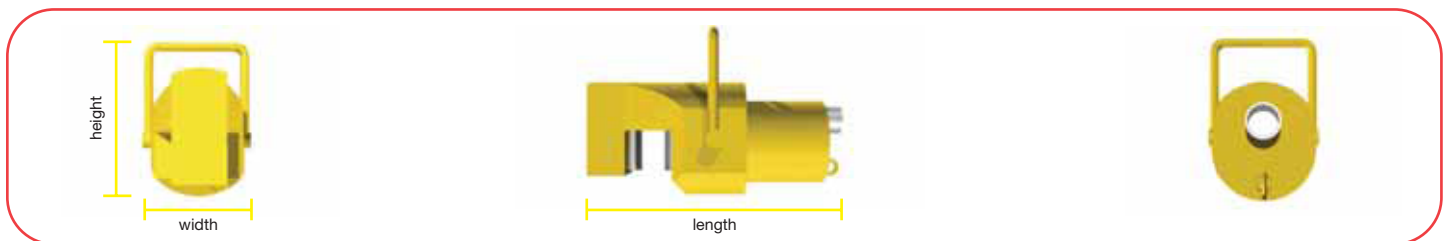
**JAG Hydraulic Cutter Heads** are high performance, reliable and robust production equipment, and offer a no nonsense ready to operate production package when combined with the **ENERPAC** or **HI-FORCE** range of products, to give the ultimate cutting package.

- Smooth guillotine action reduces risk of jamming
- Minimum operator effort when using powered pump
- Lightweight tools permit use anywhere
- Operator guarding
- Safe and easy to operate
- All models cut a wide variety of materials
- No set up time required
- All models fitted with high flow couplers
- Easily replaceable blades
- Single acting operation
- Manufactured in UK



### Selection Chart

Model No.	Output (Tons)	Weight (Kgs)	Length (mm)	Width (mm)	Height (mm)
<b>HCH 15</b>	15	10	235	95	100
<b>HCH 25</b>	25	16	235	110	120
<b>HCH 70</b>	70	23	440	180	180
<b>HCH 100</b>	100	40	460	410	250
<b>HCH 140</b>	140	72	635	565	345



### Cutting Performance

Model No.	Maximum Cutting Capacity (mm)		
	Tyre Bead	Reinforcing Bar	Chain
<b>HCH 15</b>	Car	15	15
<b>HCH 25</b>	Van	20	20
<b>HCH 70</b>	PSV / HGV	26	26
<b>HCH 100</b>	Agricultural	34	34
<b>HCH 140</b>	Earth Moving	50	50

## Hydraulic Cutting Equipment: **Cutter Units**

**JAG Hydraulic Cutter Units** are designed for remote cutting operations with double acting cylinders and a concaved edged single blade cutting system to ensure a clean and full cut of the finest and toughest:

- Wire / Rope / Cable / Reinforcing Bar and Tube

The cutting equipment is designed with a built in 4:1 safety factor and is manufactured to a rigorous quality procedure, proof tested and certified to meet with current CE specifications. All the cutting equipment is designed to operate up to a maximum working pressure of 10,000 PSI. The cutting equipment has a proven track record within:

- Manufacturing / Mining / Recycling / Construction and Demolition
- Offshore Sub-sea Engineering / Oil / Gas production, exploration and decommissioning
- Nuclear Power Generation and Decommissioning

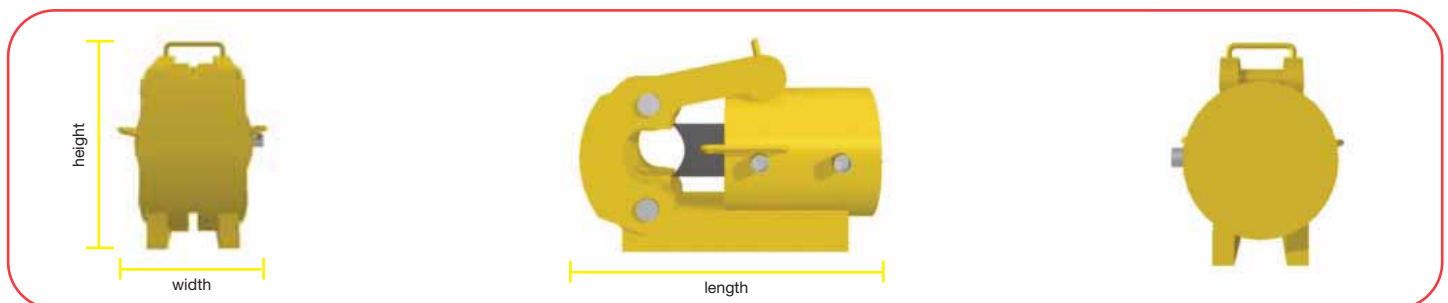
**JAG Hydraulic Cutter Units** are high performance, reliable and robust production equipment, and offer a no nonsense ready to operate production package when combined with the **ENERPAC** or **HI-FORCE** range of products, to give the ultimate cutting package.

- Smooth guillotine action reduces risk of jamming
- Minimum operator effort when using powered pump
- Double acting operation
- Safe and easy to operate
- All models cut a wide variety of materials
- No set up time required
- All models fitted with high flow couplers
- Easily replaceable blades
- Cutter suitable for remote operation
- Manufactured in UK



### Selection Chart

Model No.	Output (Tons)	Weight (Kgs)	Length (mm)	Width (mm)	Height (mm)
<b>HCU 38</b>	36	30	400	155	270
<b>HCU 63</b>	80	60	450	200	390
<b>HCU 90</b>	80	70	515	200	390
<b>HCU 114</b>	120	95	570	280	445



### Cutting Performance

Model No.	Maximum Cutting Capacity (mm)			
	Wire Rope	Cable	Reinforcing bar	Tube
<b>HCU 38</b>	38	38	20	38
<b>HCU 63</b>	63	63	32	63
<b>HCU 90</b>	90	90	32	90
<b>HCU 114</b>	114	114	40	114

## Hydraulic Cutting Equipment: **Guillotine Cutters**

**JAG Hydraulic Guillotine Cutters** are designed for remote cutting operations with double acting cylinders and a straight edged double bladed cutting system to maximize the cutting force to cut:

- Power Cable / Structural Section

The cutting equipment is designed with a built in 4:1 safety factor and is manufactured to a rigorous quality procedure, proof tested and certified to meet with current CE specifications. All the cutting equipment is designed to operate up to a maximum working pressure of 10,000 PSI. The cutting equipment has a proven track record within:

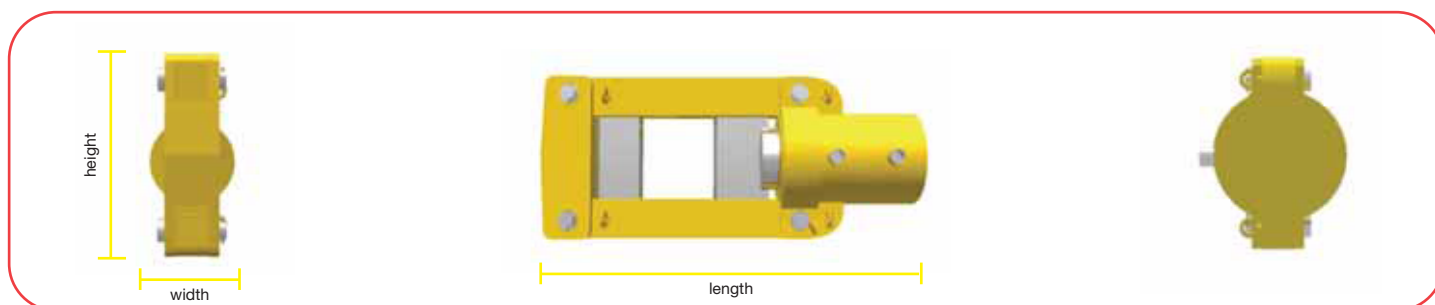
- Construction and Demolition / Mining / Recycling
- Offshore Sub-sea Engineering / Oil / Gas Production, Exploration and Decommissioning
- Nuclear Power Generation and Decommissioning

**JAG Hydraulic Guillotine Cutters** are high performance, reliable and robust production equipment, and offer a no nonsense ready to operate production package when combined with the **ENERPAC** or **HI-FORCE** range of products, to give the ultimate cutting package.

- Smooth guillotine action reduces risk of jamming
- Minimum operator effort when using powered pump
- Double acting operation
- Safe and easy to operate
- All models fitted with lifting eyes
- No set up time required
- All models fitted with high flow couplers
- Easily replaceable blades
- Cutter suitable for remote operation
- Manufactured in UK



Selection Chart					
Model No.	Output (Tons)	Weight (Kgs)	Length (mm)	Width (mm)	Height (mm)
<b>HGC 100</b>	60	50	715	150	260
<b>HGC 150</b>	120	110	864	190	335
<b>HGC 200</b>	180	205	1020	220	420



Cutting Performance		
Model No.	Maximum Cutting Capacity (mm)	
	Structural Section	Power Cable
<b>HGC 100</b>	100 X 50	100
<b>HGC 150</b>	150 X 125	150
<b>HGC 200</b>	200 X 150	200

## Hydraulic Cutting Equipment: **Special Purpose Cutters**

**JAG Special Purpose Hydraulic Cutters** are uniquely designed and individually manufactured to meet specific production requirements including:

- Manual, remote or robotic control
- Vertical or horizontal operating positions
- Protection to suit the operating environment with an epoxy paint finish for radioactive, offshore open air applications and a nickel plate finish for offshore sub-sea applications.
- Single or double acting cylinder configurations with a high tonnage option for low pressure hydraulic system applications.

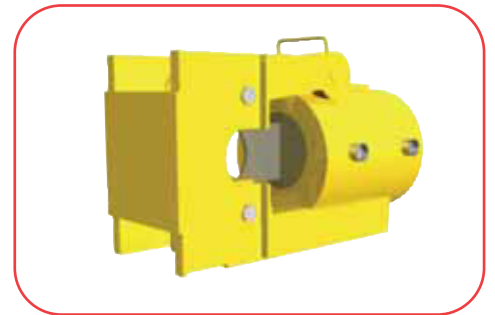
**JAG Special Purpose Hydraulic Cutters** are designed with a built in 4:1 safety factor and are manufactured to a rigorous quality procedure, proof tested and certified to meet with current CE specifications and are designed to operate up to a maximum working pressure of 10,000 PSI.

The cutting equipment can incorporate hydraulically operating jaws and latches, roller guide systems, guide shute systems, guarding systems and mobile work stations. All the equipment incorporates an easy replaceable blade system and specialised seal kit variations such as polyurethane seals for use with hydraulic fluids, viton seals for use with water glycol fluids and EPR seals for use with fire resistant fluids. The cutting equipment has a proven track record within:

- Offshore Sub-sea Engineering / recycling
- Offshore Oil / Gas Production, Exporation and Decommissioning
- Nuclear Power Generation and Decommissioning

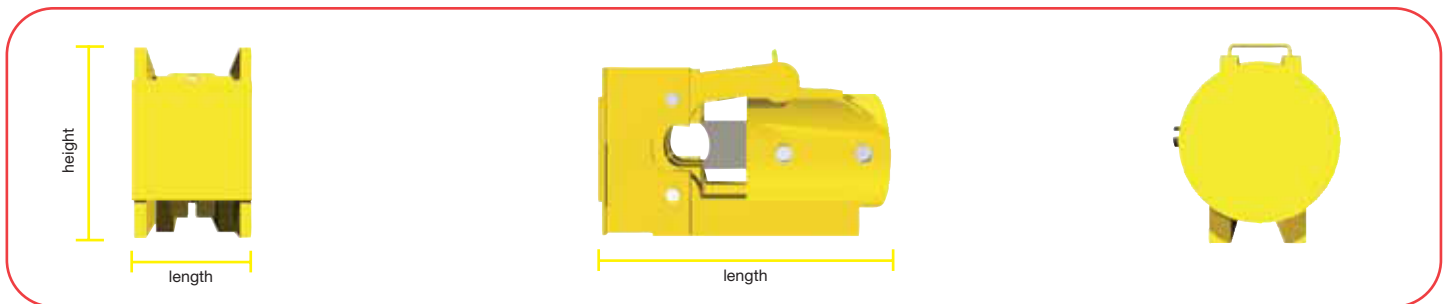
**JAG Special Purpose Hydraulic Cutters** are high performance, reliable and robust production equipment, and offer a no nonsense ready to operate production package when combined with the the **ENERPAC** or **HI-FORCE** range of products, to give the ultimate cutting package.

- Smooth guillotine action reduces risk of jamming
- Minimum operator effort when using powered pump
- Single & Double acting operation
- Safe and easy to operate
- All models cut a variety of materials
- No set up time required
- All models fitted with high flow couplers
- Easily replaceable blades
- Cutter suitable for remote operation
- Manufactured in UK



### Selection Chart

Model No.	Output (Tons)	Weight (Kgs)	Length (mm)	Width (mm)	Height (mm)
<b>SPHCU 150</b>	220	460	900	420	570
<b>SPHCU 200</b>	400	880	1100	540	780



### Cutting Performance

Model No.	Maximum Cutting Capacity (mm)			
	Wire Rope	Cable	Reinforcing bar	Tube
<b>SPHCU 150</b>	150	150	54	150
<b>SPHCU 200</b>	200	200	72	200



## Hydraulic Cutting Equipment: Case Studies

### Special purpose cutter specification A

- Hydraulically operated jaw mechanism
- Roller guide system
- Epoxy paint finish
- Concaved cutting blade
- Vertical mounting bracket
- Cutter suitable for remote operation

Manufactured for **General Electric Company**

This cutter was designed to cut 200mm diameter Nylon Hawser Cord as part of an emergency cut off system on an offshore satellite refuelling station.

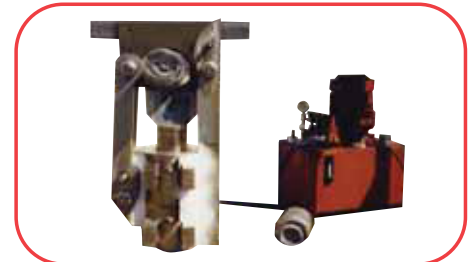


### Special purpose cutter specification B

- Lockable latch arrangement
- Mounting feet
- Viton seals for use with water glycol
- Epoxy paint finish
- Concaved cutting blade
- Cutter suitable for remote operation

Manufactured for **Atomic Energy Authority**

This cutter was designed to cut 200mm diameter Spent Nuclear Fuel Rods in a Radioactive Cell.

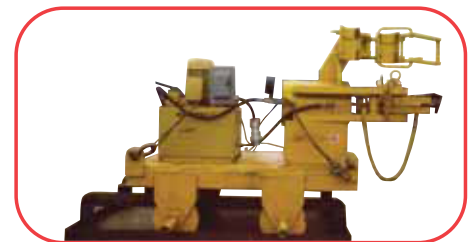


### Special purpose cutter specification C

- Mobile bogie unit
- Rope guide mechanism
- Quick release jaw pins
- Concaved cutting blade

Manufactured for **Exxon Oil Company**

This cutter was designed to cut 140mm diameter High Tensile Wire Rope and was used as part of the construction equipment on the World's first 'guyed' Oil platform.



### Special purpose cutter specification D

- Mobile work station
- Epoxy paint finish
- Mounting base

Manufactured for **Cable and Wireless Marine**

Manufactured for **Dunlop Coflexip**

This cutter was designed to cut 90mm diameter Spent Umbilical Cable for use in a cable recycling workshop.



### Special purpose cutter specification E

- Mobile work station
- Mounting base
- Heavy duty lifting bracket
- Straight edged cutting blade

Manufactured for **Bridon Ropes**

This cutter was designed to cut 140mm diameter High Tensile Wire Rope for use in different areas of a ropery shop.



### Special purpose cutter specification F

- Hydraulically operated safety latch mechanism
- Hydraulically operated locking pin
- Epoxy paint finish
- Straight edged cutting blade
- Cutter suitable for remote operation

Manufactured for **Atomic Energy Authority**

This cutter was designed to cut 200mm diameter Spent nuclear Fuel Rods and was loaded and operated by a robotic system.

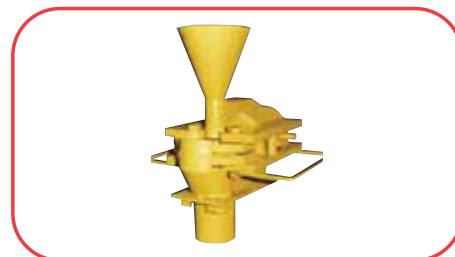


## Hydraulic Cutting Equipment: **Case Studies**

### Special purpose cutter specification G

- Feeder and waste chute system
  - Concaved cutting blade
  - High tonnage unit for use with low pressure system
  - Fixed jaw assembly
  - Mounting plate
  - Cutter suitable for remote operation
- Manufactured for **British Nuclear Fuels**

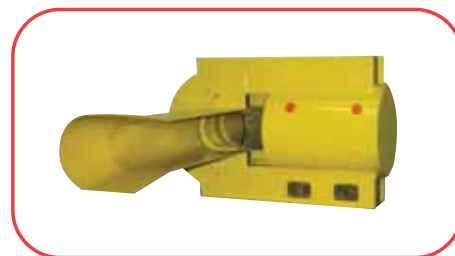
This cutter was designed to cut 50mm diameter Radioactive Stainless Steel Bar on a Nuclear site performing decommissioning work.



### Special purpose cutter specification H

- Rope guide system
  - Epoxy paint finish
  - Fixed jaw assembly
  - Anchor bracket
  - Cutter suitable for remote operation
- Manufactured for **European Marine Contractors**

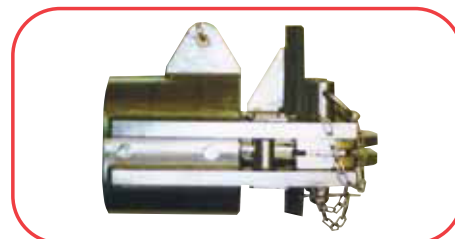
This cutter was designed to cut 63mm diameter High Tensile Wire Rope while operating Sub-sea.



### Special purpose cutter specification I

- Fixed jaw assembly
  - Rope guide system
  - High tonnage unit for use with low pressure system
  - Quick release jaw pins
  - Nickle plate finish
  - Anchor bracket
  - Cutter suitable for remote operation
- Manufactured for **Norwegian Offshore Oil Industry**

This cutter was designed to cut 90mm diameter High Tensile Wire Rope as part of an emergency cut off system on an Oil Platform.



### Special purpose cutter specification J

- Angled blade for loading access
  - Lifting bracket
  - Epoxy paint finish
  - External mounting points
  - Cutter suitable for remote operation
- Manufactured for **Atomic Weapons Establishment**

This cutter was designed to cut 200mm diameter Spent Nuclear Reactor components during decommissioning work in a Reactor Hall.



### Special purpose cutter specification K

- Hydraulically operated safety latch mechanism
  - Concaved cutting blade
  - Fixed jaw assembly
  - Epoxy paint finish
  - External mounting points
  - Cutter suitable for remote operation
- Manufactured for **British Nuclear Fuels**

This cutter was designed to cut 50mm diameter Radioactive Reactor components while operating in a Reactor Cooling Pond.



## Hydraulic Cutting Equipment: **Case Studies**

### Special purpose cutter specification L

- Fixed anvil
- Vertical mounting base
- Epoxy paint finish
- Double acting operation
- Cutter suitable for remote operation

Manufactured for **Volker Stevin Marine**

This cutter was designed to cut 200mm diameter Power Cable as part of an emergency cut off system onboard a Cabling Vessel.

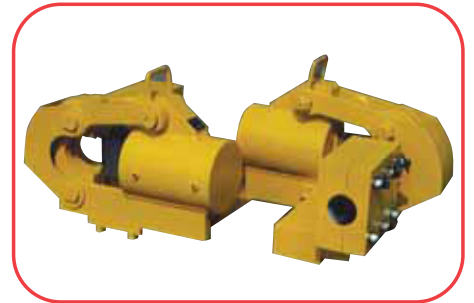


### Special purpose cutter specification M

- Rope clamp assembly
- Epoxy paint finish
- Concaved cutting blade
- Fixed latch assembly
- Cutter suitable for remote operation

Manufactured for **Haliburton**

These cutters were designed to cut 90mm diameter High Tensile Wire Rope to form part of a Sub-sea Salvage Package.



### Special purpose cutter specification N

- Bolt in collar assembly
- Quick release latch pin
- Lifting frame
- Fixed latch assembly
- Cutter suitable for remote operation

Manufactured for **Soco**

This cutter was designed to cut 150mm diameter High Tensile Wire Rope as an Emergency Mooring cut off system onboard a Super Tanker.



### Special purpose cutter specification P

- Multiple mounting holes
- Internal intensifier
- Epoxy paint finish
- Manufactured from anti corrosive materials
- High phosphate nickel plating
- Fixed latch assembly

Manufactured for **Curtiss Wright Controls**

These cutters were designed to cut 50mm diameter High Tensile Titanium as part of an Emergency Cut off System onboard Nuclear Powered Submarines.





## HYDRAULIC CUTTING EQUIPMENT

### TO CUT:

- Wire / Wire Rope / Nylon and Hemp Hawser / Conductor String
- Cable / Power Cable / Umbilical Cable
- Reactor Fuel Rods / Bar / Reinforcing Bar / Tube
- Chain / Nuts / Bolts / Rivets / Pipe
- Exhaust Systems / Tyre Bead
- Structural Section / Plate / Nylon and Kevlar Rope



## HYDRAULIC CUTTING EQUIPMENT

### SUPPLIED TO:

- Manufacturing / Mining / Construction and Demolition
- Subsea Engineering, Exploration and Decommissioning
- Offshore Oil & Gas Production, Exploration and Decommissioning
- Nuclear Power Generation and Decommissioning

WOR-LIFTS



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