



**TENSOR AB**  
TAILOR MADE HYDRAULIC SYSTEMS

# CONTROL ROD CUTTER

The **Control Rod Cutter** is a specialized **hydraulic cutting tool** engineered for precision cutting of control rod shafts with an **outer diameter between 70 and 81 mm**. This tool ensures a clean and efficient cutting process, ideal for applications requiring submerged operations.

## Key Features and Operation:

### Anchored Submerged Stand:

The cutter is securely mounted on a submerged stand to ensure stability during operation.

The control rod is lowered through the **inlet hole** into the cutter.

### Hydraulic Cutting Mechanism:

**Pressure Supply:** A hydraulic pump supplies pressure to the cutting cylinder and piston.

**Cutting Action:** The movable tool pushes the rod toward the fixed tool, initiating the cut. Once the tools pass each other, the cut is completed.

### Automatic Removal:

After cutting, the lower part of the control rod falls through the **outlet hole**.

### Return Cycle:

**Return Pressure:** Pressure is reversed to the cylinder, causing the piston to retract.

The moving cutting tool returns to its original **ready position**, prepared for the next operation.

This robust and precise hydraulic cutter is ideal for operations requiring controlled, efficient cutting of submerged control rods.



The **Control Rod Cutter** is a powerful **hydraulic cutting tool** designed to generate **high-concentration stresses** in materials, ensuring efficient and precise cutting. It is ideal for applications where durability, precision, and submerged operation are critical.

## Key Specifications:

•**Cutting Force:** Delivers a force of **4.1 MN at 1000 bar** pressure.

•**Maximum Pressure:** Both the cutting cylinder and tool can withstand pressures up to **1000 bar**.

## Key Benefits:

### Increased Efficiency:

Reduces cutting time by **40%**, enhancing productivity in time-sensitive operations.

### Clean Operation:

Produces **no metal shavings**, ensuring a clean cutting process with minimal material waste.

### Submerged Capability:

Designed to operate **submerged**, making it suitable for underwater applications or challenging environments.

## Performance:

The **moving cutter** is engineered to handle extreme stresses, ensuring reliability and durability under demanding conditions. Its **high cutting force** and robust design make it a preferred solution for precision cutting of control rod shafts.

**For more information and to discuss your cutting needs, contact TENSOR today!**

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