



Hydraulic Cutter

Product Description

1. Product Overview

The hydraulic cutter is a high-performance cutting tool driven by an external hydraulic power source. It is designed for efficient and safe cutting of high-strength metal materials in steel plants, metallurgical facilities, mechanical maintenance, and industrial installation sites.

With a compact structure and stable hydraulic drive, the cutter delivers smooth and controlled cutting performance, making it an ideal solution for demanding industrial applications where reliability and safety are critical.

2. Application Range

- Suitable for cutting metal materials with tensile strength up to **1600 N/mm²**
- Maximum allowable working temperature: **150 °C**
- Applicable for cutting steel bars, steel rods, metal profiles, and similar metal components

- For materials with higher strength or special working conditions, **customized cutting heads** can be supplied upon request

Note: Cutting extremely hardened sections of common materials is not recommended, as this may reduce blade life or cause damage.

3. Key Features

- **High Cutting Capacity**
Hydraulic drive provides stable and powerful cutting force for high-strength materials.
- **Compact & Robust Design**
Integrated cutting head structure ensures easy handling and suitability for confined spaces.
- **Safe Operation**
Controlled hydraulic movement significantly reduces operational risks compared with mechanical cutting tools.
- **Wide Compatibility**
Can be connected to various hydraulic pump stations to meet different site requirements.
- **Easy Maintenance**
Key components are designed for quick inspection and replacement, minimizing downtime.

4. Technical Specifications

- Maximum cutting material strength: **1600 N/mm²**
- Maximum working temperature: **150 °C**

- Drive type: **Hydraulic**
- Power source: **External hydraulic pump station**
- Cutting mode: **Hydraulic reciprocating cutting**

Specific cutting capacity, jaw opening, and matching hydraulic parameters can be provided according to project requirements.

5. Safety Considerations

To ensure safe operation and long service life, the following points should be observed:

- Operators must wear appropriate personal protective equipment
- Disconnect hydraulic hoses before replacing or servicing the cutting head
- Cut off power supply to the hydraulic pump station during maintenance
- Keep hands and body away from the cutting head and material during operation

6. Maintenance & Service

- Hydraulic oil should be replaced **once or twice per year**, depending on operating conditions
- Clean the oil tank before filling new hydraulic oil
- Regularly check oil level and hydraulic hoses for leakage or damage

- After approximately **20–30 cutting cycles**, inspect fastening bolts of the cutting head to ensure proper tightening and extend service life

7. Typical Applications

- Steel plant maintenance and emergency cutting
- Metallurgical equipment installation and dismantling
- Heavy machinery manufacturing and servicing
- Industrial construction and on-site dismantling operations

