

## 500mm-560mm Hydraulic Butt Fusion Machine for Plastic Pipes

This hydraulic butt fusion welding machine joins plastic pipes with diameters of 500mm and 560mm. It utilizes hydraulic power to provide consistent pressure during welding, ensuring strong and reliable joints.



### ADDITIONAL IMAGES



### Overview



The complete hydraulic butt fusion system ready for large diameter pipe welding.

### High-Precision Hydraulic Butt Fusion Welding

The HDC630 is a professional-grade hydraulic butt fusion machine designed for joining large-diameter plastic pipes including HDPE, PP, and PVC. It utilizes a robust hydraulic system to provide consistent and controlled pressure, ensuring strong, leak-proof joints that match or exceed the strength of the pipe itself. Engineered for both on-site and workshop applications, this machine offers precise alignment and temperature control for reliable performance in water supply, gas distribution, and industrial piping projects.

## Technical Performance



Robust frame and hydraulic unit designed for precise pressure control during fusion.

### Power Supply

**12.2 kW**

Power Consumption

**380 V**

Voltage

### Welding Range

400mm, 450mm, 500mm, 560mm, 630mm

## Components



Essential components including the milling cutter and temperature-controlled heating plate.

### Standard Configuration

- Basic Machine Rack
- Milling Cutter (Facing Tool)
- Heating Plate with Temperature Control
- Hydraulic Station
- Support Basket
- Control Box

## Component Specifications

### Component Weights & Dimensions

Component	Dimensions (cm)	Weight (kg)
Racks	131 x 97 x 92	300
Milling Cutter	78 x 29 x 109	103
Heating Plate	91 x 7 x 100	34
Hydraulic Station	58 x 46 x 45	49
Control Box	38 x 20 x 43	10
Basket	63 x 58 x 71	14

## Physical Properties

### PACKING AND DELIVERY



Secure wooden crate packaging ensures safe international transit.

Net Weight	510 kg
Gross Weight	580 kg
Total Shipping Volume	2.66 m <sup>3</sup>

## Operational Process

### Technical Workflow

- Fix pipe on frame with 5cm-8cm gap
- Use milling cutter to achieve smooth pipe ends
- Insert heating plate once stable temperature is reached
- Apply pressure for fusion based on pipe size and environment
- Cool joint to ambient temperature before removing from frame

## Applications

### PROJECT DISPLAY



The machine is used for high-pressure water and gas pipeline projects.

### Compatible Materials

HDPE • PP • PVC • PVDF