

## Krusa Olive Crusher Unit

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**Introduction:** The olive crusher unit is an essential part of the olive oil production line. It breaks olives into paste by mechanically processing the fruit and separating the pits, allowing for efficient oil extraction.

BSTM manufactures various crusher types based on operational needs:

- Knife Crusher
- Crusher with Pit Separator

Different sieve sizes are available for various olive types and harvest periods (early, mid, late):

**5 mm, 6 mm, 7 mm**

**Application:** Paste preparation is a critical stage that affects both the **quality and yield** of olive oil. Proper cell rupture without generating excessive heat preserves aroma and polyphenol content. This is also where **lipoxxygenase (LOX)** enzymatic activity begins.

**Benefits:**

- High yield
- Enhanced polyphenol extaction
- Maximized aroma retention
- Optimal operating temperatures
- Sleeve options for different olive varieties

**Design:** BSTM crushers and pit separators are designed as modular units on a single chassis. Thanks to this modularity, different crushing techniques can be applied by changing attachments to suit different olive types.

The unit includes:

- 1 motor for feeding with adjustable speed
- 1 motor for crushing
- 1 motor for stripping

The design includes easily interchangeable crushing heads (hammer, knife, pin) and sieve options, giving the operator great flexibility depending on harvest and variety.

### **Working Principle:**

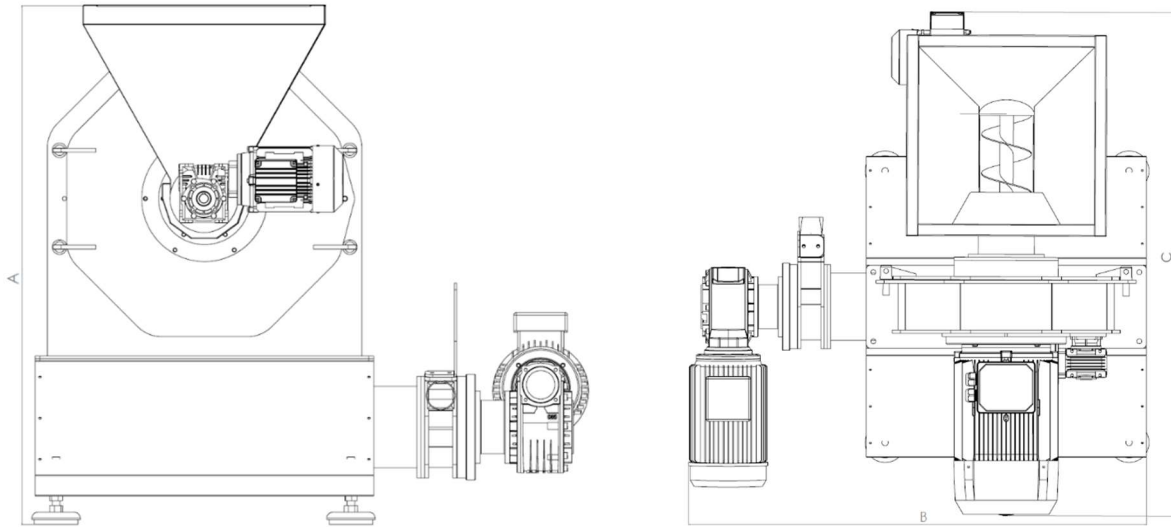
**Crushing Unit:** Olives are conveyed into the crusher using a screw system. Moving blades break down the olives and push the paste through a fixed perforated sieve using centrifugal force.

The interchangeable sieves allow control over paste thickness and consistency.

**Cooling System:** BSTM's custom-designed cooling system enables precise temperature control during crushing.

This gives the user control over a critical variable—**temperature**—which directly affects olive oil quality.

### **Technical Drawings:**



### **Technical Specifications:**

Model	Motor Power	Diameter	A (mm)	B (mm)	C (mm)
Krusa 200	3,25 kW	200 mm	850	550	1050
Krusa 250	3,25 kW	250 mm	900	1050	1200
Krusa 250S	4,75 kW	250 mm	900	1050	1200
Krusa 350	8,25 kW	350 mm	1075	1150	1260