

## Science of Seed Processing

Saat Technologe is a leading manufacturer of food processing equipment.

Saat Technologe hammer mill HM-100 functions as a fine grinding mill in pet feed and aqua feed production and as a course-grinding mill in the formulated feed manufacturing, flour milling and biomass industries.

### **Efficient and powerful size reduction achieved by Optimized design.**

- The HM-100 ensures maximum material contact for proper, efficient size reduction with optimal hammer design and placement, as well as optimum hammer bar velocity.
- Reducing energy consumption achieved by sophisticated screen design which ensures optimal discharge of crushed particles.
- Top performance delivered with Powerful motor up to 15 kW

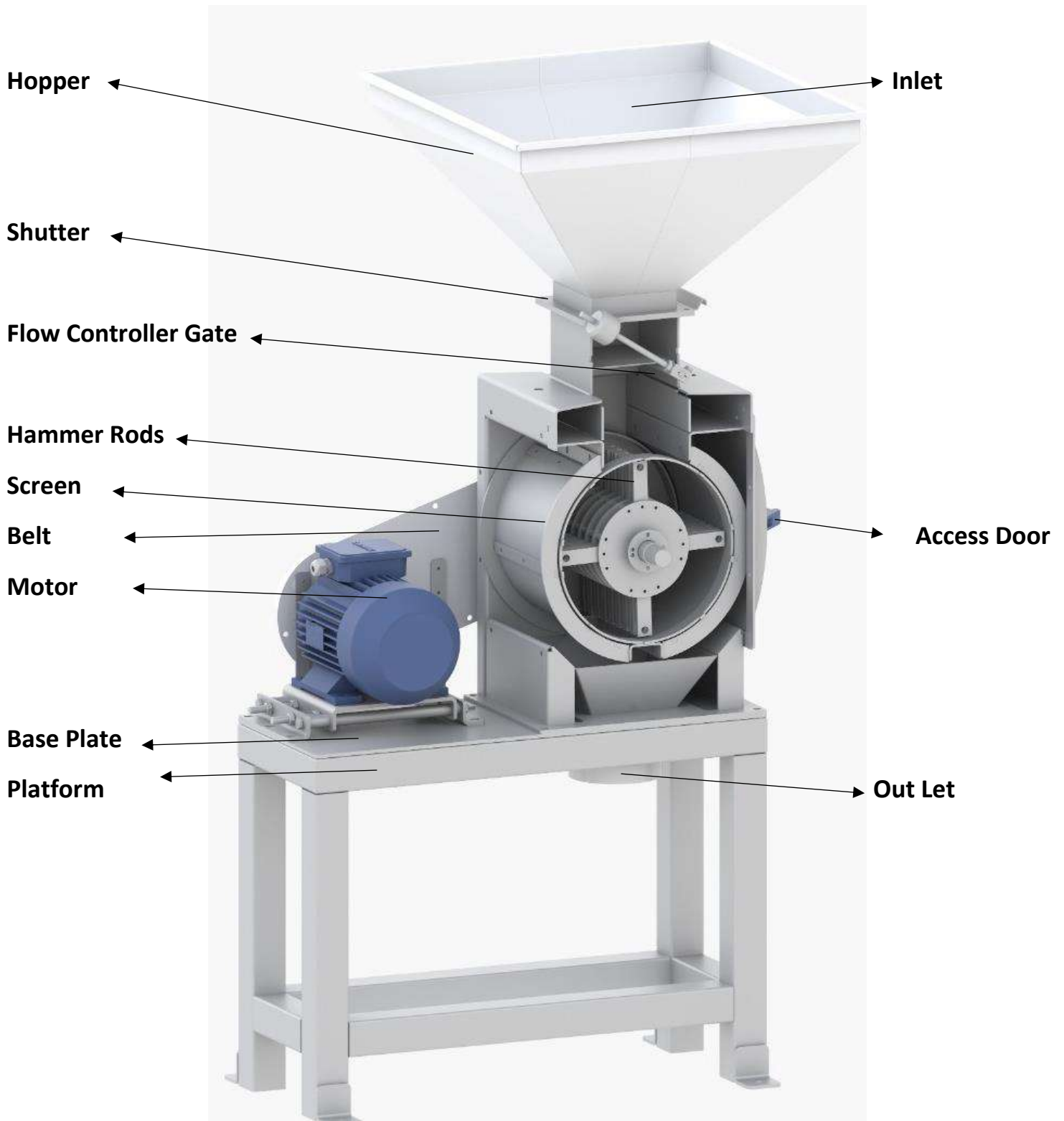


### **Save time with Fast and easy screen and hammer changes.**

- Easy access to the screens with Saat Technologe's door design.
- No tools required for no frame screens exchanging.
- Fast and easy access to the hammers with hammer bar locking mechanism.

### **Able to produce a wide range of particle sizes.**

- When used for fine grinding, the HM-100 hammer mill employs fine screens for particle sizes ranging from 0.3 to 1.5 mm. Material bulk density must be 0.2 to 0.8 kg/dm<sup>3</sup>, and the moisture up to 15%.
- When used for course grinding, the HM-100 employs round-hole screens for particle sizes ranging from 1.5 to 8.0 mm. Material bulk density must be 0.2 to 0.8 kg/dm<sup>3</sup>, and the moisture up to 15%.



**Inlet:** Seed feeding Point.

**Hopper:** Provides even and steady feeding to Hammer Mill for uniform milling.

**Shutter:** Seed feeding capacity controller.

**Flow Control Gate:** Counter balanced controlled seed flow control.

**Hammer:** 24 Pieces of Hammer Rods with reverse usable feature.

**Screen:** Perforated Screen with desired perforation as per process requirement.

**Motor:** 3 kW / 5,5 kW / 7,5kW

**Belt:** Belt and Pulley drive between motor and Hammer Shaft

**Base Plate:** Motor and Hammer Chamber connected with Nut and Bolts

**Platform:** 4 Legs with strong design and with required height for process need.

**Out let:** Hammer product discharge point.

### Capacity in kg/hour (Motor power 3 to 7,5 kW)

The capacities indicated are indicative.

#### Capacity indication 4,0 mm plate sieve

Motor		3 kW	5 kW	7,5 kW	18,5 kW	22 kW
Barley	kg/hour	450	650	950	1975	2300
Wheat	kg/hour	600	800	1250	3490	4200
Oat	kg/hour	160	220	350	1150	1400
Corn	kg/hour	650	900	1400	4360	5300

\*The capacity depends on type of sieve, motor, moisture content and type of product.

<b>Motor</b>	3,0 – 5,0 – 7,5 kW (2800 RPM)
Surface sieve	2.700 cm <sup>2</sup>
Type of sieve	plate sieve (Ø) or wire sieve (◇)
Number of hammer Rods	24
Noise level	about 85 Db (A)
Weight	165 – 185 – 195 kg
Power	380 Volt 50 Hertz 3 Phase (other power specs available on request)

the capacity of milling of moist product decreases by 5% each time the moisture content increases by 1%.