STEELE™
Since 1889

STEELE

DOUBLE ROTOR HAMMERMILL

Consistent, reliable size reduction for materials with higher moisture levels

The Steele Double Rotor Hammermill is a high-capacity grinding mill. We engineered this machine to prepare clays and shales without material buildup and clogging, dust plumes or particle discharge.

Our dual rotor design minimizes dead space to prevent material buildup and clogging, particularly when running materials with high moisture content. Precision engineering and massive construction protect bearings from dust, dirt and vibration.

We worked with machine operators and maintenance specialists to design the double rotor hammermill. Their input helped produce a mill with easy accessibility, long component life, smooth operation and good dust control.
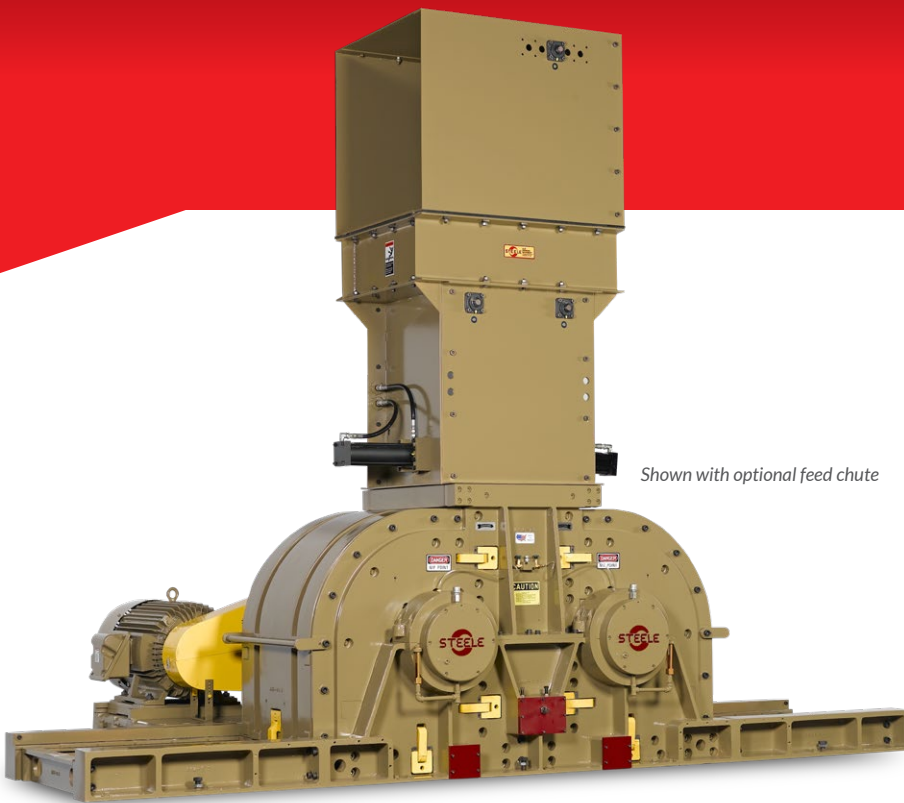
Flexibility for your process

Like all Steele machines, the double rotor hammermill combines robust construction with ready adaptability to your installation and processing requirements. Modifications for materials and processes include:

> Individual breaker bar settings

> Higher tip speeds

> Special wear-resistant materials

> Motor and motor position modifications

> Accessories

Shown with optional feed chute

Built to last

- Cast iron frame assembly is bolted together, not welded
- Multiple seals and dynamic purging remove dirt from infinite-life bearings
- Rotors assembled with massive, balanced components
- Frames cradle rotors, surrounding them with heavy, ¾" (19mm) thick liners and massive ductile iron covers to minimize sound, vibration and resonance

Airborne dust control

All hammermills produce dust and fine particles, with a vertical dust plume at the infeed and high-velocity particles at the discharge. Our design reduces the fan effect that blows dust out of the tops of other mills. The discharge conveyor and chute system limits airborne particulates.

Adding a feed chute and adjustable deflectors with clod removal ensures the proper introduction of process materials to the mill.

Applications

- Grinding for heavy clay, including brick, block and tile
- Friable minerals with varying moisture content

Materials processing

- All shale grades
- Dry to medium-wet clays
- Soft stones and minerals

Input material size

- 2-4" (50mm-100mm)

Output particle size

- Min: Less than 1" (25 mm)
- Max: Less than 4" (101 mm)

Throughput

- Up to 300 tons per hour (varies with material composition and moisture content, feed system capacity and selected components)
- Maximum screenable output ranges from minus-8 mesh producing 100 tons per hour to minus-14 mesh producing 30 tons per hour.

To discuss your application and hammermill requirements, contact your regional Steele sales representative or our U.S. headquarters at +1.704.872.3681.

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Rotor Outside Diameter.............36" (914mm)
(over hammer tips)

Width Across Rotor Face..............24" (610mm)
(over four hammer tips)

Rotor Speed **Tip Speed**

nominal: 810 RPM   7,634 feet/min (2,327 m/min)
optional: 1,000 RPM   9,425 feet/min (2,873 m/min)

Recommended Motors

Two motors, design "C", T.E.F.C.
MIN: 75HP (56 kW), MAX: 125 HP (93 kW)
1,500 or 1,800 RPM

Maximum Allowable Material Throughput
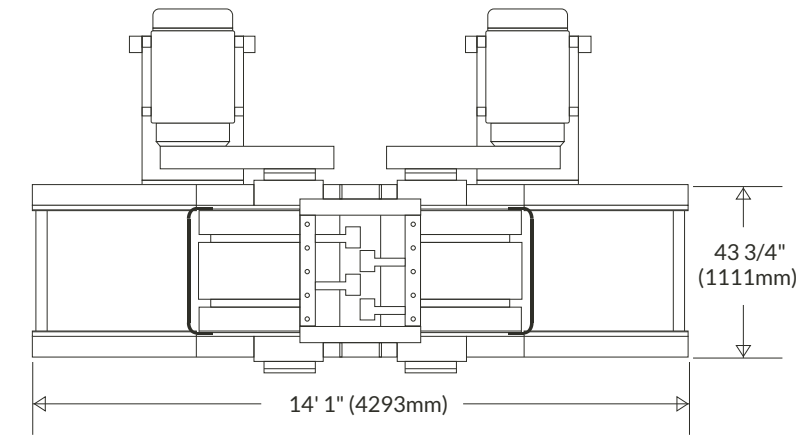
300 Tons/Hr (271 Metric Tons/Hr)

Throughput will vary with the composition and moisture content of the material being processed, the capacity of the incoming feed system, and the choice of available hammermill components selected.
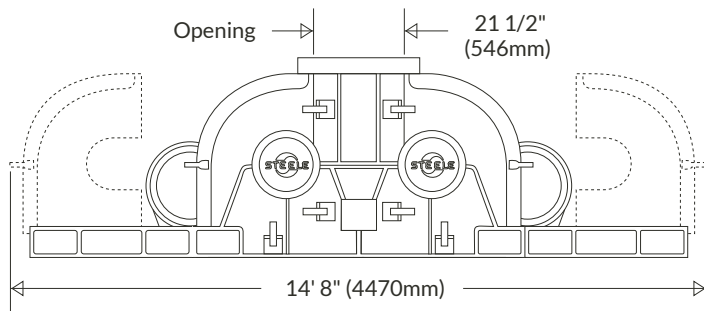
Maximum Screenable Output

minus-8 mesh: 100 Tons/Hr (91 Metric Tons/Hr)
minus-14 mesh: 30 Tons/Hr (27 Metric Tons/Hr)

In addition to the screen size or mesh, screenable output will vary with the same factors listed above. Maximum values are based on a clay/shale mixture containing as much as 10% moisture by weight (wet basis) and a hammermill fitted with two 100 HP (75kW) motors.
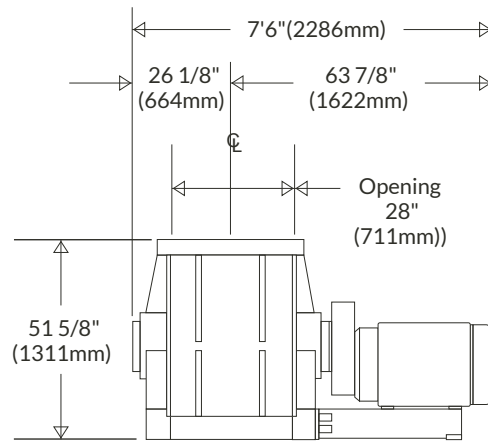
DIMENSIONS

TOP VIEW

43 3/4" (1111mm)

14' 1" (4293mm)

SIDE VIEW

Opening

21 1/2" (546mm)

14' 8" (4470mm)

END VIEW

7'6"(2286mm)

26 1/8" (664mm)

63 7/8" (1622mm)

Opening 28" (711mm))

51 5/8" (1311mm)

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View or download sales literature, sign up for
SteeleService and more at **www.jcsteele.com**

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