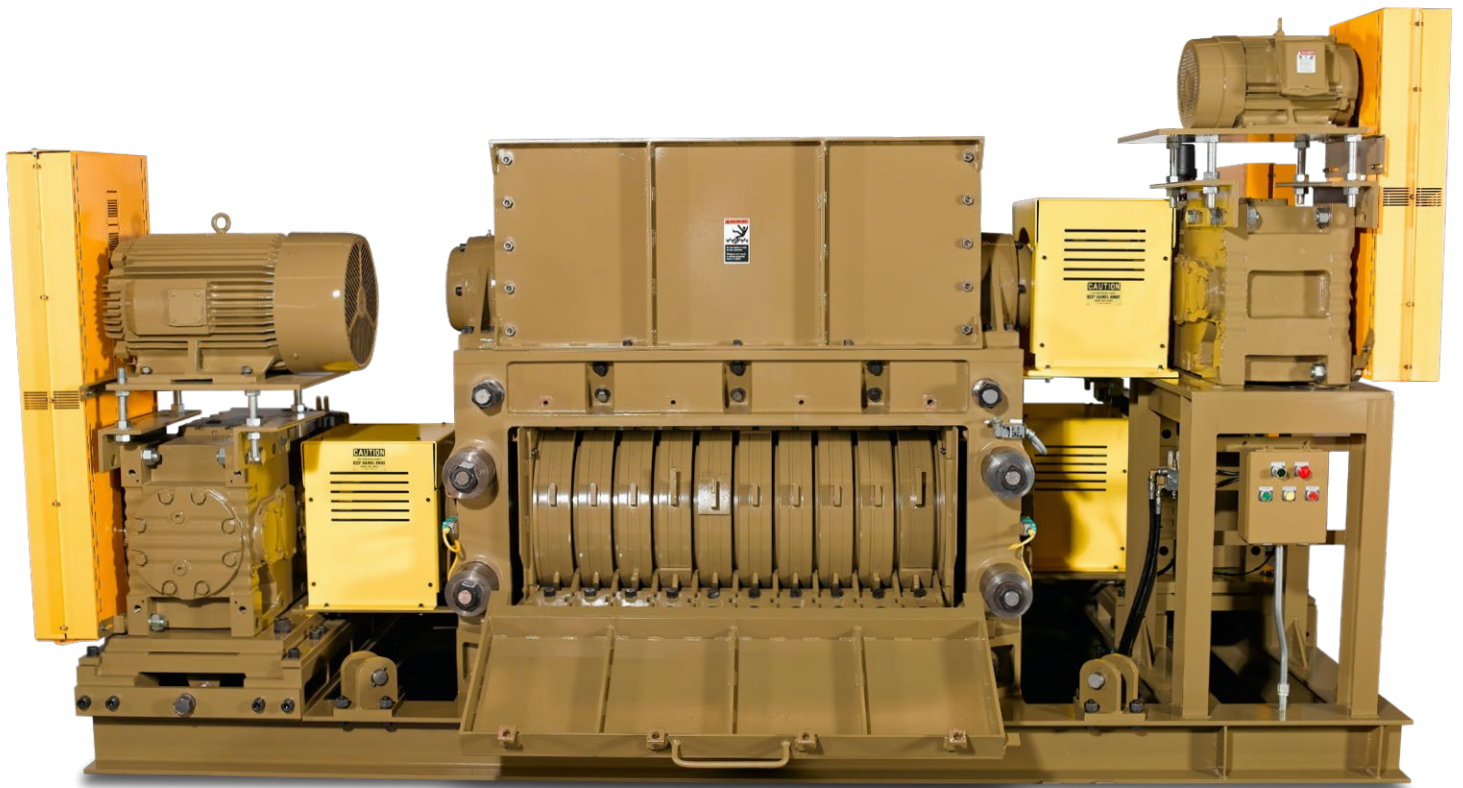




FINE GRIND PRIMARY CRUSHER

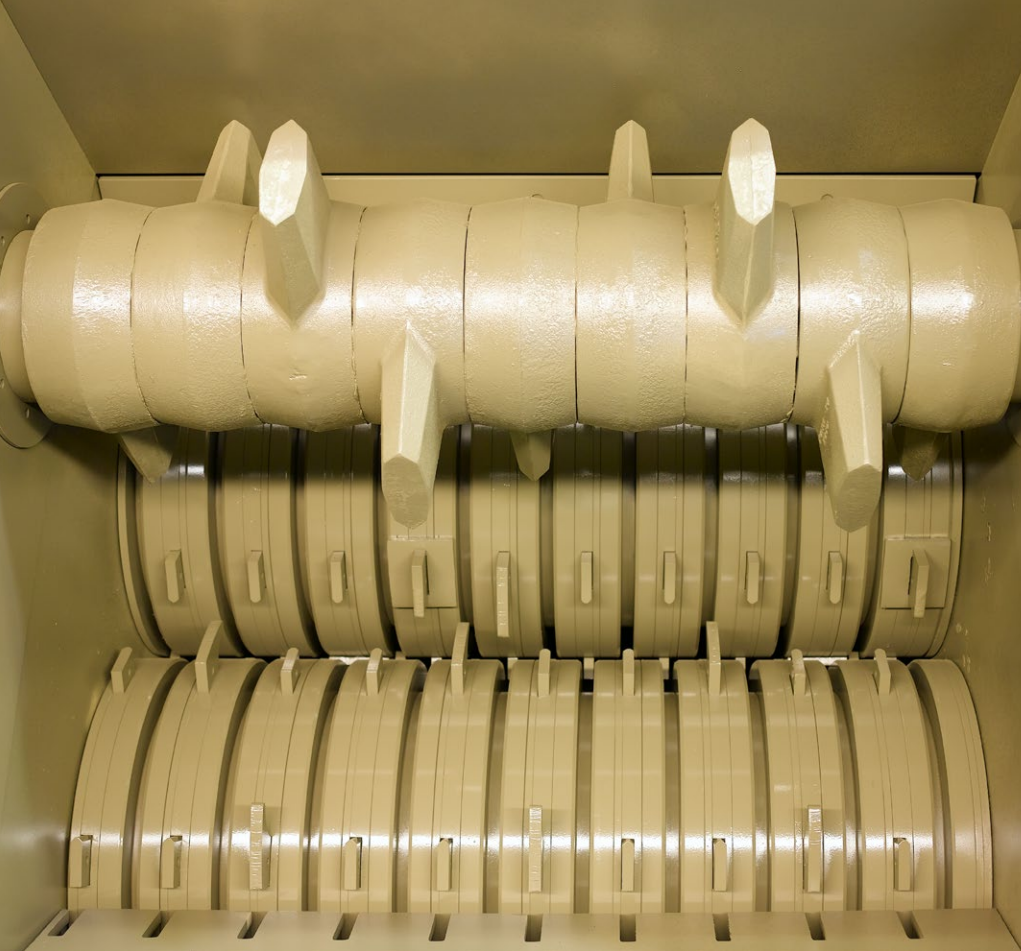
Cost-effective, reliable sizing for bulk raw materials

The Steele Fine Grind Primary Crusher improves your bulk raw material preparation and end product, with a better mix quality and homogenous blend. Consistent output, with particles sized at one inch or below, lowers your maintenance costs by eliminating overloads on secondary crushing machines.



Built to last

- Primary frame built from heavy ductile iron castings with base construction featuring 8-inch wide flange beams
- Oversized gearboxes with high thermal ratings for lower operating temperature, increased lubrication efficiency and longer life
- Overload protection system monitors torsional loads on shafts and bending loads on crushing rolls
- Maintenance-free shock-absorbing coupling
- Precision slide base for easy gearbox adjustment when changing roll positions
- Wear components accessible through doors at each end
- Safety interlock proximity switch



STEELE FINE GRIND PRIMARY CRUSHERS

Applications

- > Primary crusher for clay working applications – brick, block and tile
- > Industrial minerals

Materials processing

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

Input material

- > Maximum size of 36-inches (915 mm) across any dimension
- > 10-12-inch (254-305mm) average dimension

Output particle size

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

Throughput

- > 60-200 TPH at 1-inch roll setting

- > Hopper liners made of 3/4-inch thick abrasion-resistant steel
- > 28PC feed roll knives for choke feeding and large lumps
- > Adjustable roll spacing compensates for wear
- > Hinged covers for easy access to rolls, teeth, liners and scrapers

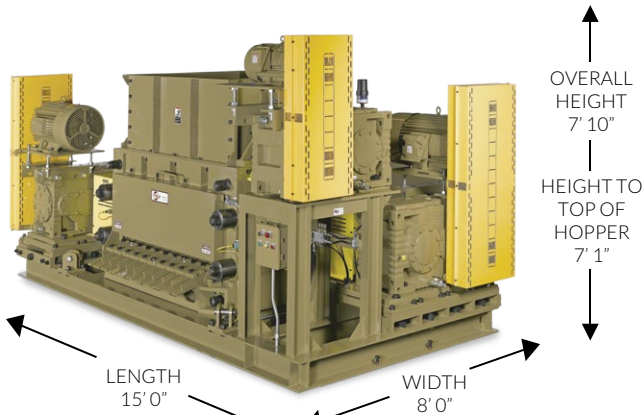


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GENERAL SPECIFICATIONS

OVERALL DIMENSIONS



WEIGHT

- 50,000 LBS. WITHOUT MOTORS

DESIGN PERFORMANCE

THROUGHPUT

- 60 TO 200 TONS PER HOUR AT 1" (25mm) ROLL SETTING

INPUT MATERIAL SIZE

- 36" (915mm) MAXIMUM ACROSS ONE DIMENSION
- 10" TO 12" (254mm to 305mm) AVERAGE DIMENSION

OUTPUT PARTICLE SIZE

LESS THAN 1" (25mm) TO LESS THAN 4" (101mm)
(ADJUSTED BY SETTING ROLL SPACING)

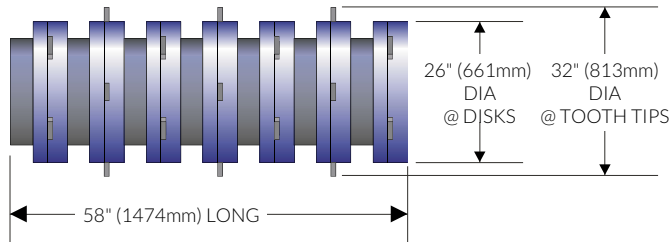
TYPES OF MATERIAL

- ALL GRADE OF SHALE
- DRY TO MEDIUM-WET CLAYS
- SOFT STONES AND MINERALS

MOTORS

SLOW ROLL - 25 HP, DESIGN B, 1800 RPM, 100 HP
 FAST ROLL - 60 HP, DESIGN B, 1800 RPM, 100 HP
 FEED ROLL - 10HP ,DESIGN B ,1800 RPM

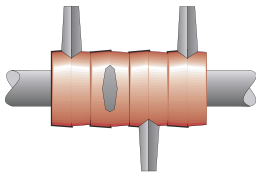
CRUSHER ROLL DIMENSIONS (one SLOW ROLL and one FAST ROLL)



NOTE:

- 8" (203mm) SQUARE SHAFT, 7" (178mm) DIAMETER AT BEARINGS.
- CRUSHER ROLL DISKS ARE SECURED BY SPLIT THRUST PLATES AT EACH END.
- DISKS ARE AUSTEMPERED DUCTILE IRON.
- TEETH ARE ALLOY STEEL.

OPTIONAL FEED ROLL



ASSEMBLED FROM STACK OF 28PC KNIVES ON AN 8" (203mm) DIAMETER Z-KEYED SHAFT.

BELT DRIVES

SLOW ROLL

SIX 5V V-BELTS WITH SHEAVES PRODUCING A NOMINAL 2.42:1 REDUCTION BETWEEN THE MOTOR AND GEARBOX

FAST ROLL

SIX 5V V-BELTS WITH SHEAVES PRODUCING A NOMINAL 2.29:1 REDUCTION BETWEEN THE MOTOR AND GEARBOX

FEED ROLL

TWO 3V V-BELTS WITH SHEAVES PRODUCING A NOMINAL 3 TO 2 REDUCTION BETWEEN THE MOTOR AND GEARBOX

ROLL SPEEDS

SLOW ROLL - 48 RPM

FAST ROLL - 50 RPM

FEED ROLL - 10 TO 15 RPM

NOTE: SMALL RPM ADJUSTABLE BY CHANGING SHEAVES

GEAR DRIVES

SLOW ROLL

15.2760 to 1 Reduction

FAST ROLL

15.2760 to 1 Reduction

FEED ROLL

106 to 1 Reduction

NOTE:

- ALL GEAR DRIVES EXCEED AGMA STANDARD SERVICE FACTORS.
- ALL FEATURE OFFSET PARALLEL GEARING AND SOLID OUTPUT SHAFTS.
- ALL ARE FOOT MOUNTED ON AN ADJUSTABLE BASE WITH A FLEXIBLE COUPLING.

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