

Double Roll Crusher



Design by : www.corefocus.in



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CRUSHTECH PVT. LTD.

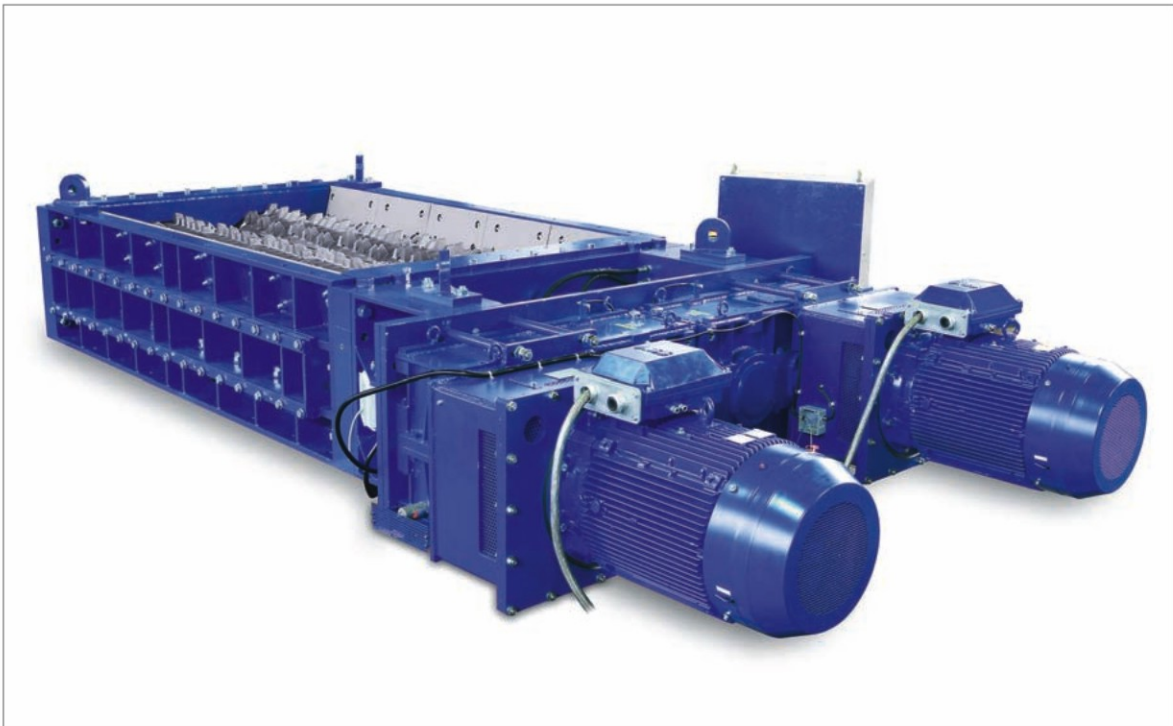
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FIELDS OF APPLICATION

Double Roll Sizer are used for primary and secondary crushing of soft and medium-hard as well as sticky and wet materials. They are particularly used for primary crushing in open pit mining (ROM) as well as further crushing (2nd + 3rd crushing stage).

FEED MATERIALS

Lignite, coal, soft to medium-hard rock, different types of ore, chalk, gypsum, limestone, marl, clay, bauxite, different types of phosphates, oil sand, overburden and similar raw materials.



Double Roll Sizer (Side-Sizer)



Double Roll Sizer (Center-Sizer)



Double Roll Sizer (Side-Sizer)



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MODE OF OPERATION

The feed material can be crushed either by counter-rotating rolls of the Center-Sizer (Type 2326) run-ning inward in the flow direction of the material

or between a crushing plate/comb and the outward rotating rolls of the Side-Sizer (Type 2327).

SECIAL FEATURES

Housing:

- simple, very compact, sturdy design
- the bearings of the crushing rolls are arranged in the front parts of the housing
- the housing is fixed on a steel frame or concrete foundation

Crushing rolls:

- consisting of the shaft complemented with crushing rings/crushing segments and the bearings
- the staggered and helical arrangement of the crushing elements allows continuous material feed as well as batch processing. The material is evenly distributed over the whole width of the roll and is crushed to the appropriate size.

Drive:

- consisting of mechanical coupling (gear coupling), gear, starter coupling and motor
- auto-reverse operation
- drive unit consisting of standard components

Drive arrangement:

- 1) arranged on both sides (diagonal)
or
- 2) drive arranged on one side (parallel)

ADVANTAGES

- compact and flat design resulting in a low/flat overall height of the crushing plant
- minimum quantities of fines in the final product due to low circumferential speed and special tooth configuration
- low dust burden
- easy replacement of crushing segments and comb plates
- inclination of side walls is adjustable to improve material feed and intake of larger feed lumps
- in most cases pre-screening is not necessary, as the fines contained in the final product can smoothly pass through the crushing tools
- high throughput capacities (up to 5000 t/h) at low operating costs
- low specific wear rate due to slow circumferential speeds
- insensitivity to smeary, ductile, wet and sticky feed materials

SCOPE OF APPLICATION

- feed size: up to approx. 1500 mm
- product size: <50 mm
- capacity: up to 5000 t/h
- reduction ratio: 1:4 up to 1:6
- required power: up to 2 x 600 kW



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