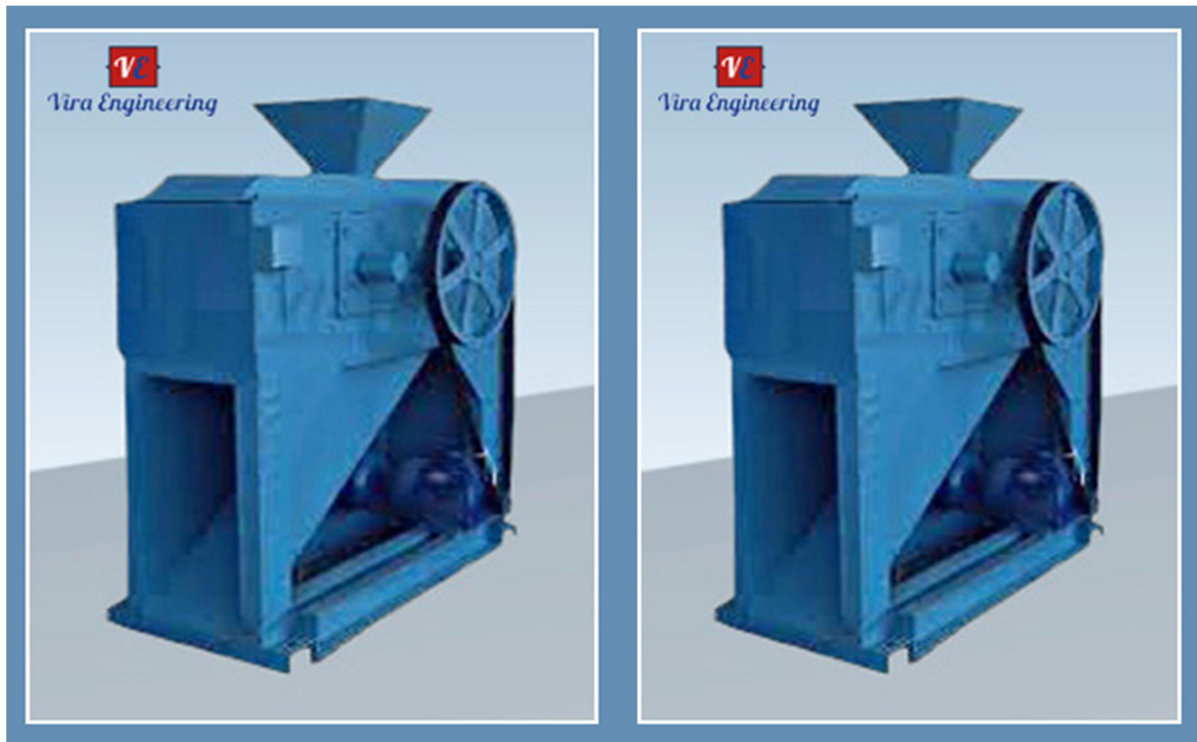


Roller Crushers

A roll crusher crushes using compression, with two rolls rotating about a shaft, towards the gap between the rolls. The gap between the rolls is set to the size of product desired, with the realization that the largest feed particle can only be 4 times the gap dimension.



The particles are drawn into the gap between the rolls by their rotating motion and a friction angle formed between the rolls and the particle, called the nip angle. The two rolls force the particle between their rotating surface into the ever smaller gap area, and it fractures from the compressive forces presented by the rotating rolls. Some major advantages of roll crushers are they give a very fine product size distribution and they produce very little dust or fines. Rolls crushers are effectively used in minerals crushing. Usually, these crushers will have teeth or Smooth forms on the face of the roll. Roll crushers used for minerals and metal ores have smooth faced rolls.

Advantages

- High throughput capacity
- Cubicle product with minimal fines
- A variety of roll tooth profiles available
- Adjustable for change in product sizing
- Automatic tramp relief
- Minimal maintenance required
- Low cost per ton operation