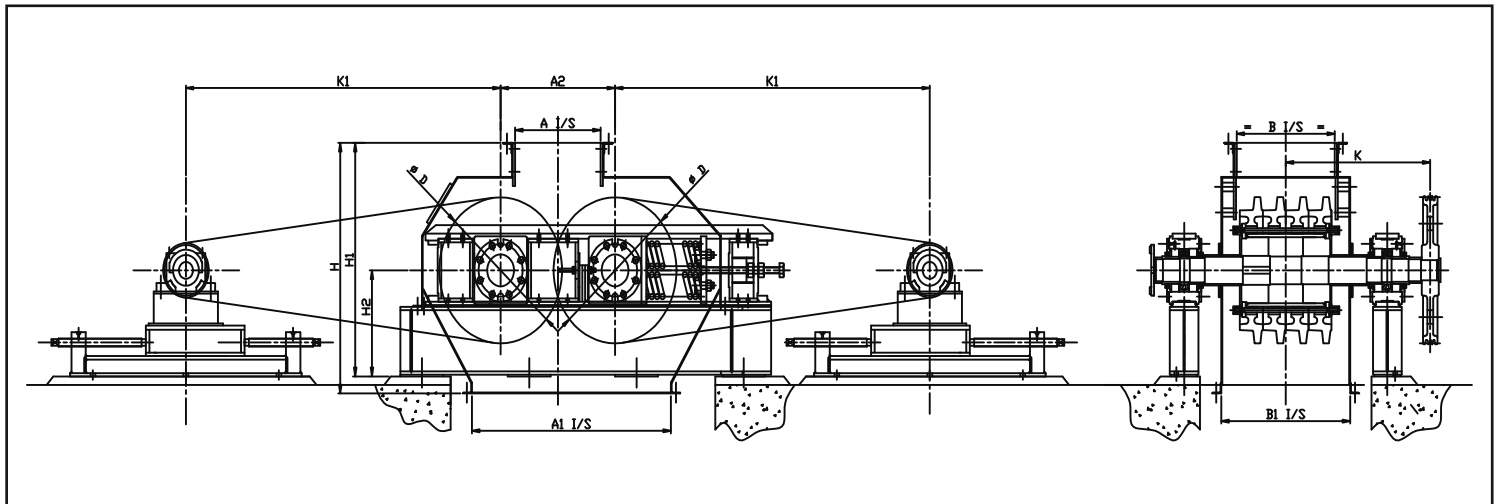
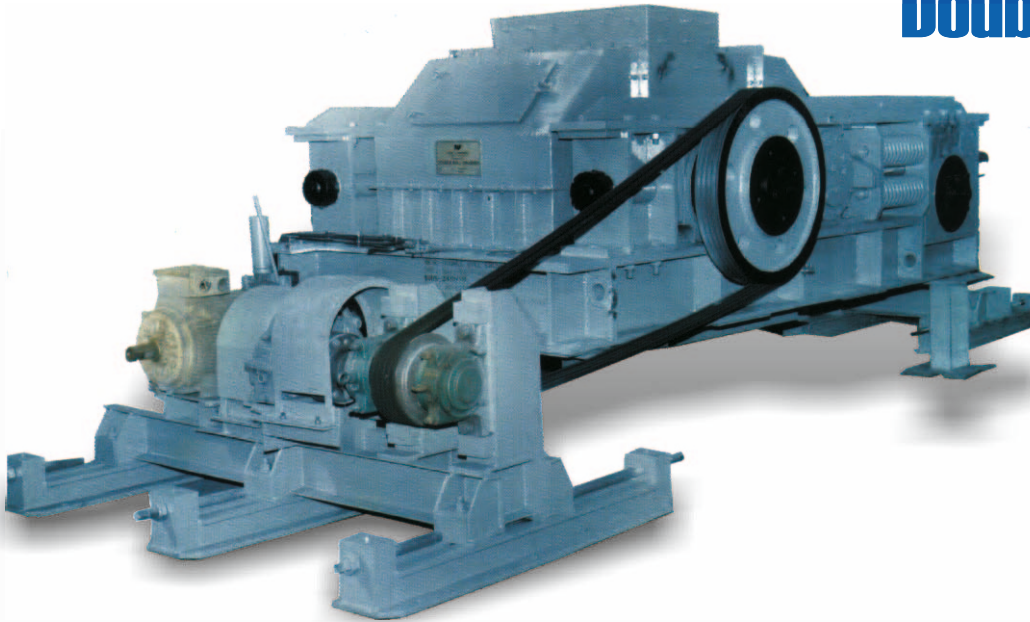


Double Roll Crushers



Side View of Double Roll Crusher

- As the material is **CRUSHED ONLY ONCE** when it passes through the gap, the percentage of **FINES IS MUCH LESS**.
- Used for almost any material and for crushing up to 0.5 mm.
- More economical because of its higher production capacity and lower power requirement.
- Easy and simple to maintain.
- Produces more uniform material than any other crusher having reciprocating motion.
- Uniform wearing of crushing surface.

Description and Uses

Two rolls rotate in opposite directions in this crusher. The material is fed between the two rolls for compressive action and breaking into fragments of uniform size. Simplicity of mechanical construction and ease of operation are the two highlights of this crusher. The amount of fines generated from crushing is relatively small, a performance feature which qualifies this machine for use in the following installations:

- **SORTING PLANTS OF MINES**
(for crushing ore)
- **COAL MINES**
(for crushing coal and waste)
- **CEMENT PLANTS**
(for crushing clay, lime and gypsum rocks)
- **CHEMICAL PLANTS**
(for crushing lime, coal, coke, rock salt, etc.)
- **SMEETING PLANTS**
(for crushing sintered ore and cinder)
- **COAL-FUEL POWER PLANTS**
(for crushing coal)

The Double Roll Crusher is available with heavy duty rolls for crushing such hard materials as ore or with light duty rolls for crushing relatively soft materials.

Construction

(1) Frame

A cast-iron or steel-plate frame is used. The steel-plate frame is fabricated by welding. The plummer blocks of fixed roll assembly are integral with the frame.

The Plummer Block for the movable roll assembly are elastically positioned in horizontal direction with high-strength coil springs or hydraulic accumulators selected for the type of crushing duty. This elastic mounting includes a means of adjusting the roll-to-roll clearance (roll setting) and serves as a protective feature for preventing motor over load or damage to the crusher, as the roll will yield and back away when it grips hard foreign matters like tramp iron.

(2) Rolls

Roll tyres are of smooth type, corrugated type or toothed type, depending on the crushing duty. In the standard design

each roll assembly consist of a roll boss with hexagonal outer shape rigidly mounted on the roll shaft which permits easy replacement of roll tyre. The roll tyres are held tight by means of bolts. This arrangement provides for easy tyre replacement and minimizes parts subject to wear. The roll tyres are made of high manganese steel.

(3) Bearings

Spherical roller bearings are used to support the rolls. The spherical roller bearings are complete with labyrinth seals and packings for preventing entrance of dust and leakage of oil.

(4) Drive

The standard Double roll crusher has independent belt drives from two motors, one motor for each roll. This arrangement eliminates the need for an intermediate drive transmitting device resulting in less space utilisation and reducing the no-load power loss.

DIMENSIONS (in MM) :

SIZE Dia. D x L	D	L	A	B	A1	B1	A2	K	K1	H	H1	H2
600 X 600	600	600	350	650	1100	650	660-730	830	1475	1030	930	430
750 X 600	750	600	596	686	1850	900	800-870	1010	2200	1475	1375	625
750 X 750	750	750	596	850	1850	1050	800-870	1200	2200	1475	1375	625
750 X 900	750	900	596	1050	1850	1300	800-870	1300	2200	1475	1375	625
750 X 1200	750	1200	596	1300	1850	1500	800-870	1350	2200	1475	1375	625
750 X 1500	750	1500	596	1500	1850	1700	800-870	1450	2200	1475	1375	625
900 X 900	900	900	600	1000	1850	1150	900-1000	1300	2200	1650	1500	650
900 X 1200	900	1200	600	1350	1850	1500	900-1000	1400	2200	1650	1500	650
900 X 1500	900	1500	600	1600	1850	1750	900-1000	1660	2200	1650	1500	650
900 X 1800	900	1800	600	1900	1850	2000	900-1000	1800	2200	1650	1500	650
900 X 2100	900	2100	600	2200	1850	2300	900-1000	1950	2200	1650	1500	650
900 X 2400	900	2400	600	2500	1850	2800	900-1000	2100	2200	1650	1500	650
1200 X 1200	1200	1200	800	1400	2200	1600	1200-1300	2100	3000	1850	1700	700
1200 X 1800	1200	1800	800	2000	2200	2200	1200-1300	2400	3000	1850	1700	700
1200 X 2400	1200	2400	800	2600	2200	2800	1200-1300	2600	3000	1850	1700	700
1400 X 2500	1400	2500	900	2700	2300	2900	1250-1400	2700	3200	1900	1800	800
1200 x 2100	1200	2100	800	2080	2530	2100	1200-1300	1750	4230	1970	1820	750

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