



Double Roll Crushers can be used in primary, secondary or tertiary crushing applications. This makes them ideal for following other McLanahan equipment, such as Feeder-Breakers, Rotary Breakers, DDC-Sizers or other Roll Crushers, when further reduction of the feed material is necessary. Used in a wide variety of applications, Double Roll Crushers can process ROM coal, limestone, gypsum, trona, shale, bauxite, oil shale, clean coal, coke, salt, quicklime, burnt lime, glass, kaolin, brick, shale, and wet, sticky feed materials.

In Double Roll Crushers, the material is crushed by a combination of compression, shear and tensile stress forces applied by the rotational energy of the opposing rolls. Because each Double Roll Crusher is custom engineered for its specific application, roll elements and tooth patterns are selected based on your unique applications and designed to produce a cubical product with minimal fines.

SAFER

An automatic spring-and-toggle tramp protection system comes standard in each McLanahan Double Roll Crusher. This system allows a movable roll to open, pass non-crushable material and return to its original position for continued operation, eliminating the need for manual clearing. McLanahan Double Roll Crushers also come completely furnished with all necessary guards.

SIMPLER

The elimination of timing gears makes operation of the Double Roll Crusher simple. Dual drive arrangements use a separate electric motor and V-belt drive for each roll, resulting in quiet operation and minimal vibration. For single drive arrangements, power is transferred to opposing rolls by an inter-stage V-belt drive. Double Roll Crushers can be equipped with an automatic lubrication system. Product size adjustment can also be changed with little effort using a hydraulic cylinder and hand pump, allowing producers to adjust for changes in product size requirements or to compensate for roll wear

SMARTER

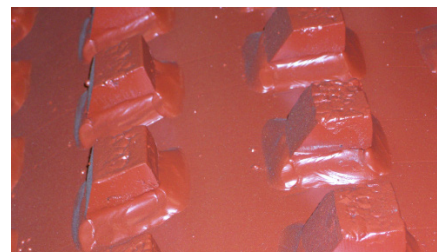
The bearings on Double Roll Crushers can be equipped with temperature warning devices. Zero speed switches can also be installed to monitor the operation of the rolls. McLanahan Corporation's lab facility is fully capable of testing material to ensure the correct size and duty class of Double Roll Crusher is selected for your application. Double Roll Crushers also come with the option of McLanahan's carbide impregnated, weld-on teeth, which are proven to increase roll life up to three to four times the life of other metallurgy.



McLanahan can create complete crushing systems.



Double Roll Crushers can be installed above or underground.



Carbide impregnated weld-on teeth can greatly improve roll segment wear life and minimize downtime.

Double Roll Crushers

HEAVY-DUTY CAPACITIES IN TONS PER HOUR

Square Screen Openings	Lengths of Roll						
	24"	36"	48"	60"	72"	84"	96"
1/4"	26	39	52	x	x	x	x
1/2"	52	78	106	x	x	x	x
3/4"	79	118	160	200	236	275	315
1"	104	156	210	260	312	365	415
1 1/4"	131	196	260	325	392	455	520
1 1/2"	158	236	320	400	472	550	630
2"	208	312	420	520	624	730	835
3"	312	470	630	780	940	1095	1250
4"	418	627	836	1044	1254	1465	1675
6"	627	940	1255	1570	1880	2195	2505

Capacities in short tons per hour are based on 100 lbs. per cubic foot.

BLACK DIAMOND CAPACITIES IN TONS PER HOUR

Square Screen Openings	Lengths of Roll					
	18"	24"	36"	48"	60"	72"
1/4"	18	25	37	50	62	75
1/2"	37	50	75	100	125	150
3/4"	56	75	112	150	187	225
1"	75	100	150	200	250	300
1 1/4"	93	125	187	250	312	375
1 1/2"	112	150	225	300	375	450
2"	150	200	300	400	500	600

Capacities in short tons per hour are based on 50 lbs. per cubic foot.

SHALEMASTER SIZING AND RATED CAPACITIES

Size	Motor	Rated Capacity 3" Product
24" x 24"	75 HP, 1800 rpm	75 tph
24" x 36"	100 HP, 1800 rpm	110 tph
24" x 48"	125 HP, 1800 rpm	150 tph
24" x 60"	150 HP, 1800 rpm	190 tph