



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

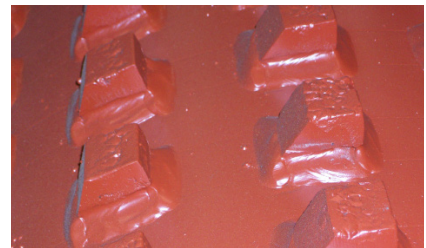
The bearings on Double Roll Crushers can be equipped with temperature warning devices. Zero speed switches can also be installed to monitor the operation of the rolls. McLanahan Corporation's lab facility is fully capable of testing material to ensure the correct size and duty class of Double Roll Crusher 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 METRIC TONS PER HOUR

Square Screen Openings	Lengths of Roll						
	610mm	914mm	1219mm	1524mm	1829mm	2134mm	2438mm
6mm	24	35	47	x	x	x	x
13mm	47	71	96	x	x	x	x
19mm	72	107	145	181	214	250	286
25mm	94	142	191	236	283	331	376
32mm	119	178	236	295	356	413	472
38mm	143	214	290	363	428	499	572
50mm	189	283	381	472	566	662	758
76mm	283	426	572	708	853	993	1134
102mm	379	569	758	947	1138	1329	1520
152mm	569	853	1139	1424	1706	1991	2272

Capacities in metric tons per hour are based on 1.6 Mton per cubic meter.

## BLACK DIAMOND CAPACITIES IN METRIC TONS PER HOUR

Square Screen Openings	Lengths of Roll					
	457mm	610mm	914mm	1219mm	1524mm	1829mm
6mm	16	23	34	45	56	68
13mm	34	45	68	91	113	136
19mm	51	68	102	136	169	204
25mm	68	91	136	181	227	272
32mm	84	113	169	227	283	340
38mm	102	136	204	272	340	408
50mm	136	181	272	363	454	544

Capacities in metric tons per hour based on 0.8 Mton per cubic meter.

## SHALEMASTER SIZING AND RATED CAPACITIES

Size	Motor	Rated Capacity 76.2mm Product
610mm x 610mm	56 kW, 1800 rpm	82 mtph
610mm x 914mm	75 kW, 1800 rpm	121 mtph
610mm x 1219mm	93 kW, 1800 rpm	165 mtph
610mm x 1524mm	112 kW, 1800 rpm	209 mtph