



TOOTHED Double Roll Crusher



MANUFACTURERS OF :

- JAW CRUSHERS
- IMPACTORS
- VERTICAL SHAFT IMPACTOR
- HAMMER MILLS
- ROLL CRUSHERS (Single & Double)
- VIBRATING SCREENS
- FEEDERS



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PERFECTION IN SIZE REDUCTION TECHNOLOGY
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TOOTHED DOUBLE ROLL CRUSHER



Application :

Toothed Double Roll Crushers are used for crushing the friable and brittle materials like Coal, Coke, Sinter (hot and cold), Clay, Earth, Slag, Chalk, Soft Limestone etc.

Due to cutting action of the teeth, crushing of material takes place mostly due to shear and not by pressing. Therefore fines generation is bare minimum.

Description :

Crushing takes place due to two rolls running in to each other and crushing the material caught in the valley of the rolls. One roll is fixed, while other one is adjustable & spring mounted, permitting uncrushable to pass through

Crushing Rolls :

Toothed rings are mounted on the heavy fabricated hub and the rings are kept in position by holding bolts. These rings are made of wear-resistant steel, like 14% Mn Steel, K.M.D. or any other hardened Steel depending upon the application.

Drive :

Surface speed of rolls is kept between 3m-5m/sec and therefore upto 800 dia roll crushers are driven, directly by V-belts. But roll crushers above 800 dia are provided with gear box/gear motor to keep the surface speed between specified limits of 3 M/ Sec to 5 M/Sec.

Housing :

Housing is divided in 3 parts and is made of welded construction :

1. Heavy Duty Chassis with Legs.
2. Yoke for Mounting floating/adjustable roll.
3. Upper housing to keep the toothed roll crusher enclosed.

Gap Adjustment :

The design of the ECOMAN's Gap-Adjustment system is such, that during running condition gap can be adjusted and also the spring force. There are two spindles located one inside the other in such a way, that inner spindle tightens or loosens the springs, while outer one changes the position of the roll. (Attached sketch is self-explanatory.)

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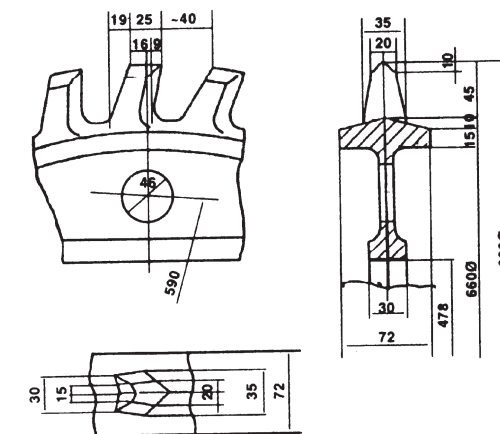
TOOTHED DOUBLE ROLL CRUSHER



Typical Toothed Rings

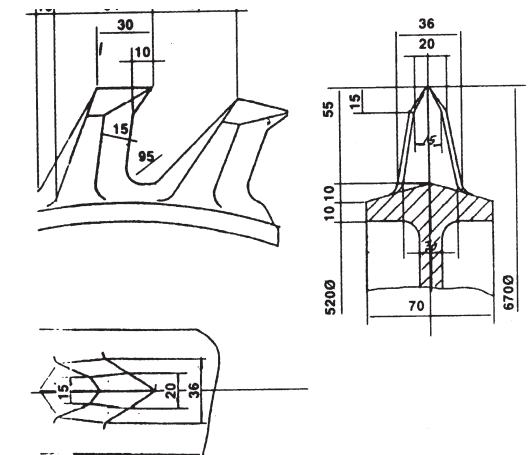
TOOTHED RING - EC 1719

Diameter : 800 mm
Width : 72 mm
No. of teeth : 39
Hexagonal : 478
Octagonal : --
Holding bolts : 40 ϕ , 6 Nos.
Material : KMD 160-180 Weight : 57 kgs.
Application : Coke : 0-60 mm



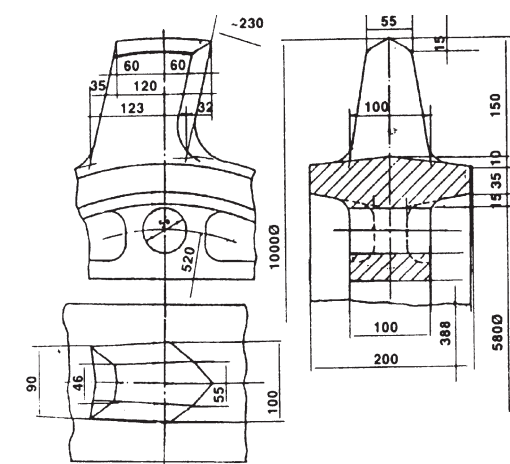
TOOTHED RING - EC 1481

Diameter : 670 mm
Width : 70 mm
No. of teeth : 27
Hexagonal : --
Octagonal : 388 mm
Holding bolts : 30 ϕ , 8 Nos.
Material : KMD 160-180 Weight : 40 kgs.
Application : Coke :



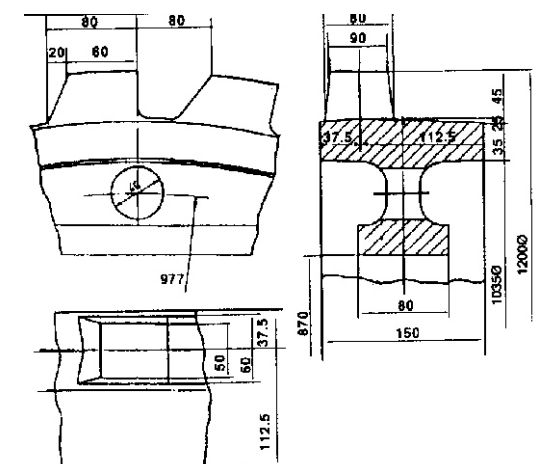
TOOTHED RING - EC 1829

Diameter : 1000 mm
Width : 200 mm
No. of teeth : 9
Hexagonal : 388 mm
Octagonal : --
Holding bolts : 40 ϕ , 6 Nos.
Material : KMD 160-180 Weight : 335 kgs.
Application : Cold Sinter - 200.....



TOOTHED RING - EC 2009

Diameter : 200 mm
Width : 150 mm
No. of teeth : 29
Hexagonal : 870
Octagonal : --
Holding bolts : 40 ϕ , 6 Nos.
Material : KMD 160-180 Weight : 272 kgs.
Application : Hot Sinter 0-50



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Toothed Double Roll Crusher Technical Data

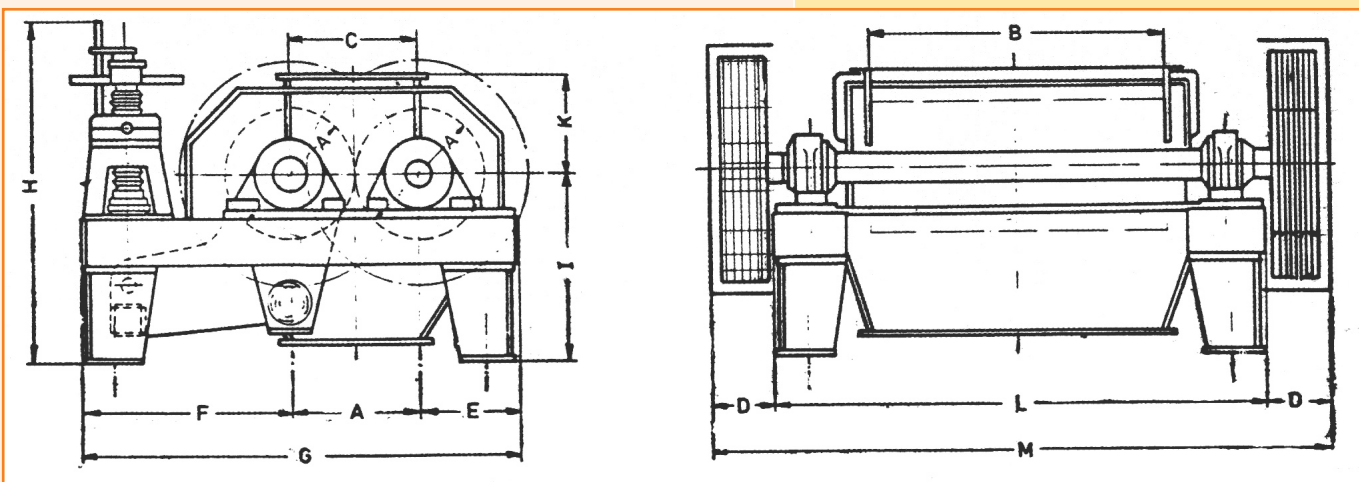


Table for Series 1100 with mechanical vertical adjustment

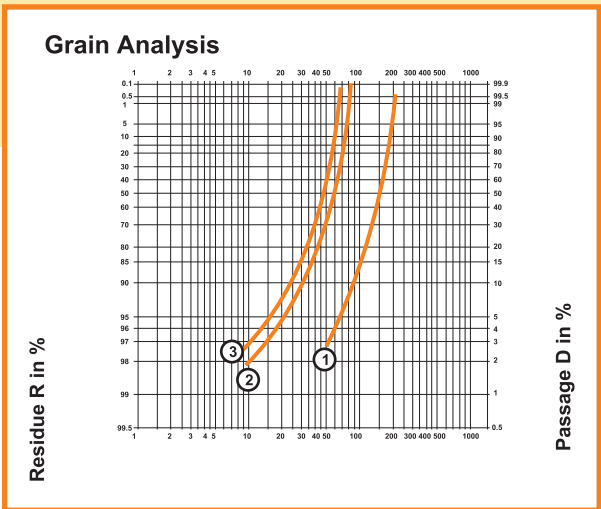
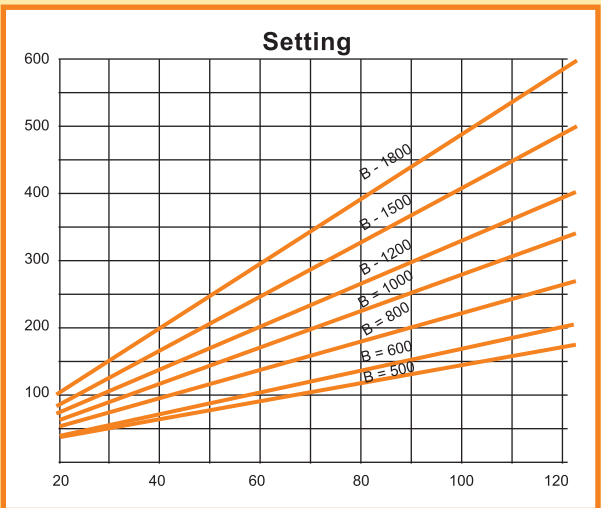
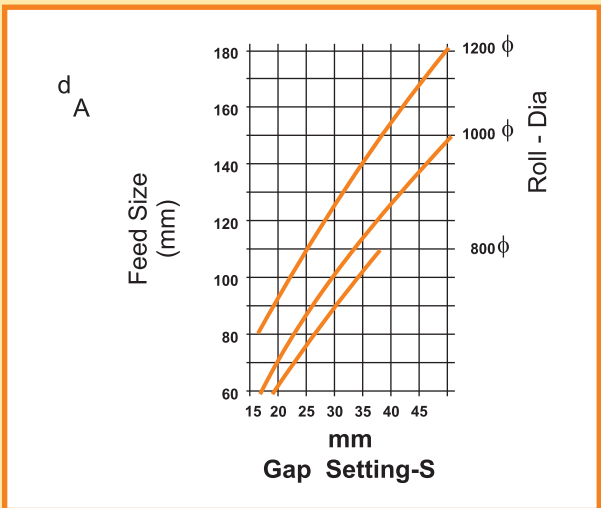
Grobe Size Model	AØ Walzen rolls cylinders	I B I	C	D	E	F	G	H	I	K	L	M	Gewicht Weight poids kg
1150/80	500	800	500	270	430	1100	2030	1680	850	460	1700	2240	4300
1150/100	500	1000	500	270	530	1100	2130	1680	850	460	1900	2440	5100
1150/120	500	1200	500	270	530	1100	2130	1680	850	460	2100	2640	6000
1150/150	500	1500	500	270	530	1100	2130	1680	850	460	2400	2940	7200
1165/100	650	1000	650	270	530	1150	2330	1750	925	525	1900	2440	7000
1165/120	650	1200	650	270	530	1150	2330	1750	925	525	2100	2640	8500
1165/150	650	1500	650	315	530	1150	2330	1750	925	525	2400	3030	11000
1165/180	650	1800	650	345	530	1200	2380	1750	925	525	2700	3390	14000
1180/100	800	1000	800	270	600	1200	2600	1800	1005	610	1990	2530	10500
1180/120	800	1200	800	270	600	1200	2600	1800	1005	610	2200	2740	12500
1180/150	800	1500	800	375	600	1200	2600	1850	1005	610	2500	3250	14500
1180/180	800	1800	800	390	600	1200	2600	1850	1005	610	2800	3580	17000
1110/120	1000	1200	1000	390	700	1225	2925	1980	1080	680	2210	2990	17500
1110/150	1000	1500	1000	390	700	1225	2925	1980	1080	680	2510	3290	21000
1110/180	1000	1800	1000	390	700	1225	2925	1980	1080	680	2810	3590	25000
1112/120	1200	1200	1200	390	750	1325	3275	2030	1180	750	2290	3070	24500
1112/150	1200	1500	1200	390	850	1325	3375	2030	1180	750	2490	3270	29500
1112/180	1200	1800	1200	410	850	1325	3375	2080	1180	750	2800	3620	34500
1112/200	1200	2000	1200	410	850	1325	3375	2080	1180	750	3000	3820	38500
1114/100	1400	1000	1400	430	1000	1500	3900	2150	1350	900	2200	3060	29000
1114/120	1400	1200	1400	430	1000	1500	3900	2150	1350	900	2400	3260	34500
1114/160	1400	1600	1400	450	1050	1500	3950	2200	1350	900	2800	3700	43500
1114/200	1400	2000	1400	550	1100	1600	4100	2200	1350	900	3200	4300	50000
1114/250	1400	2500	1400	570	1250	1600	4250	2300	1350	900	3700	4840	62000
1116/120	1600	1200	1600	570	1350	1750	4700	2300	1520	1050	2600	3740	34500
1116/150	1600	1500	1600	570	1350	1800	4750	2300	1520	1050	2900	4040	42000
1116/180	1600	1800	1600	600	1400	1800	4800	2400	1520	1050	3200	4400	49000

Dimensions & ratings indicative
Not Binding

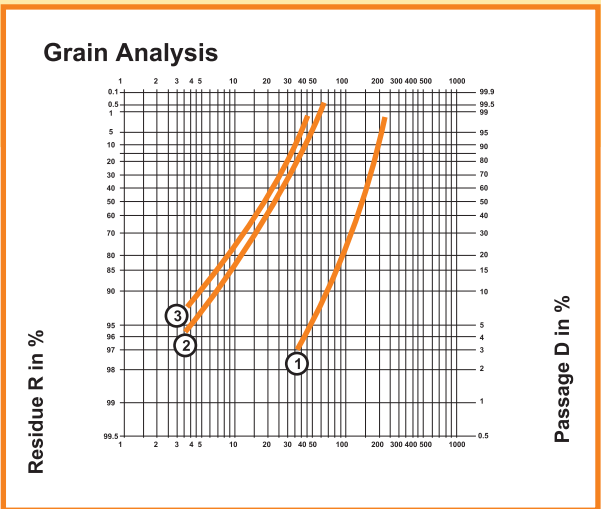
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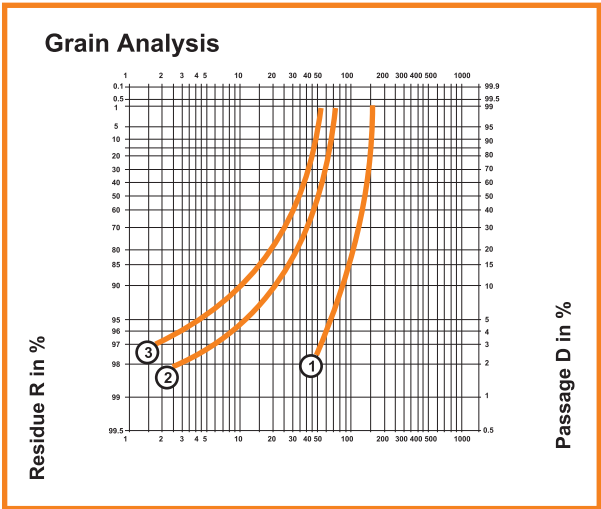
Toothed Double Roll Crusher Ratings



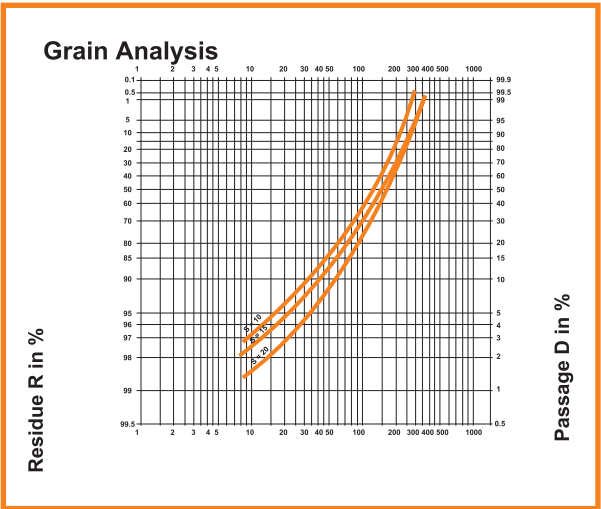
Final grain distribution for the crushing of ramp coke.
(1) Feeding granulation
(2) + (3) size for different gap widths



Final grain distribution for the crushing of ramp coke.
(1) Feeding granulation
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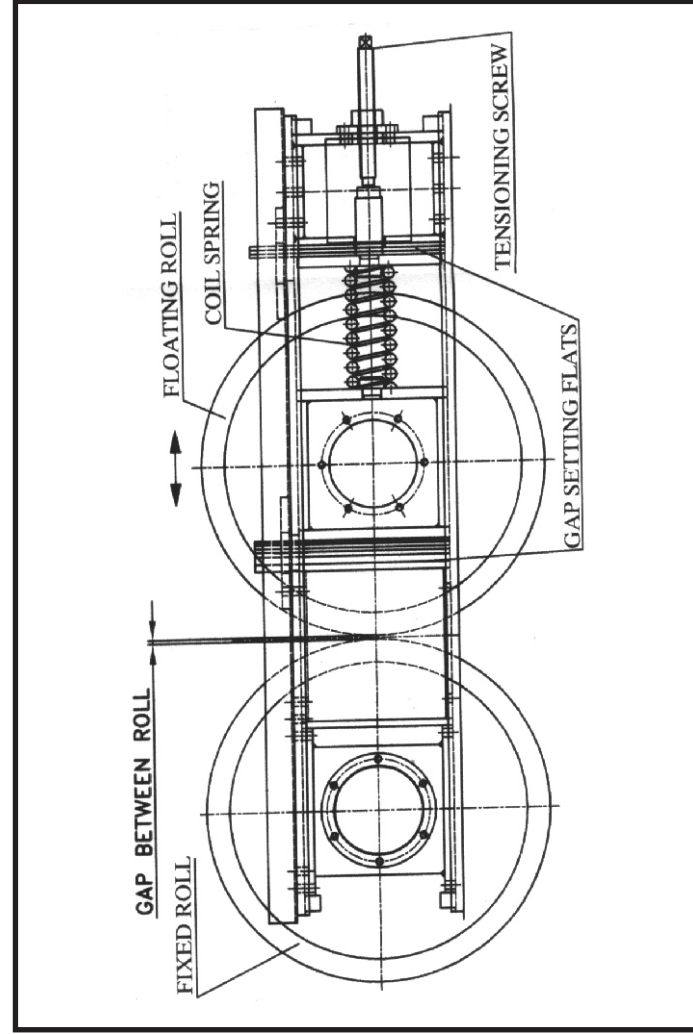
Final grain distribution for the crushing of ramp coke.
(1) Feeding granulation
(2) + (3) size for different gap widths



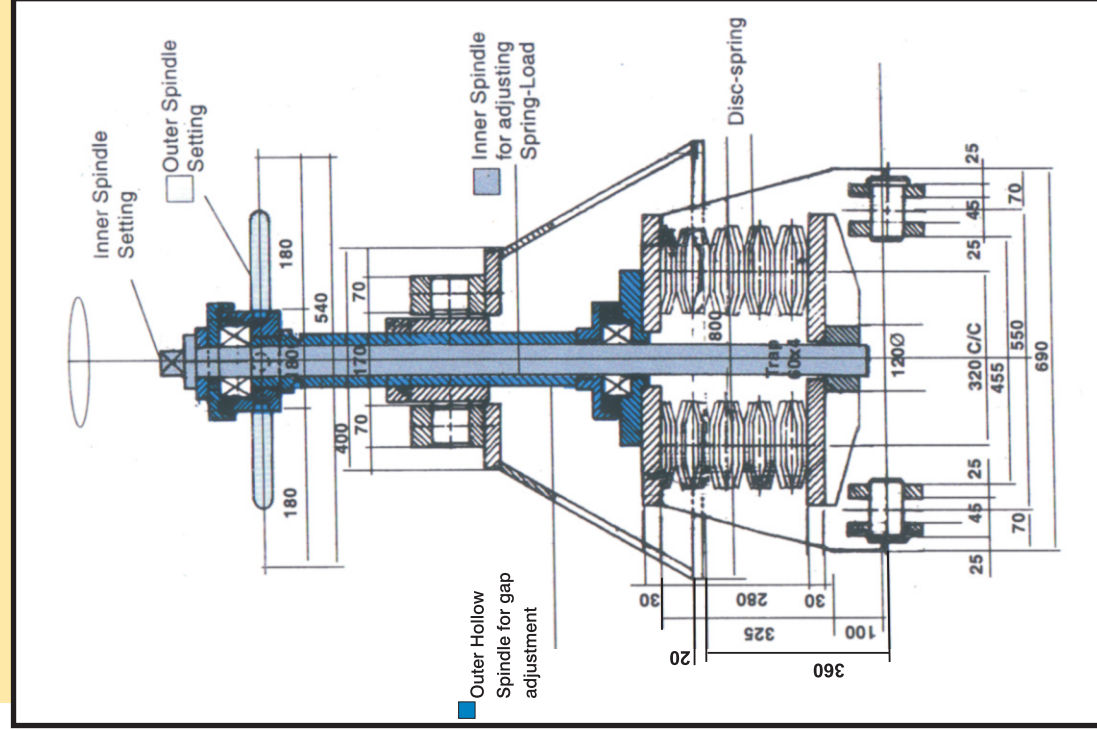
Crushing of glass pane 10 mm thick, final grain distribution at various gap widths.

GAP SETTING ARRANGEMENT

INDEPENDENT SPRINGS



YOKE TYPE



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