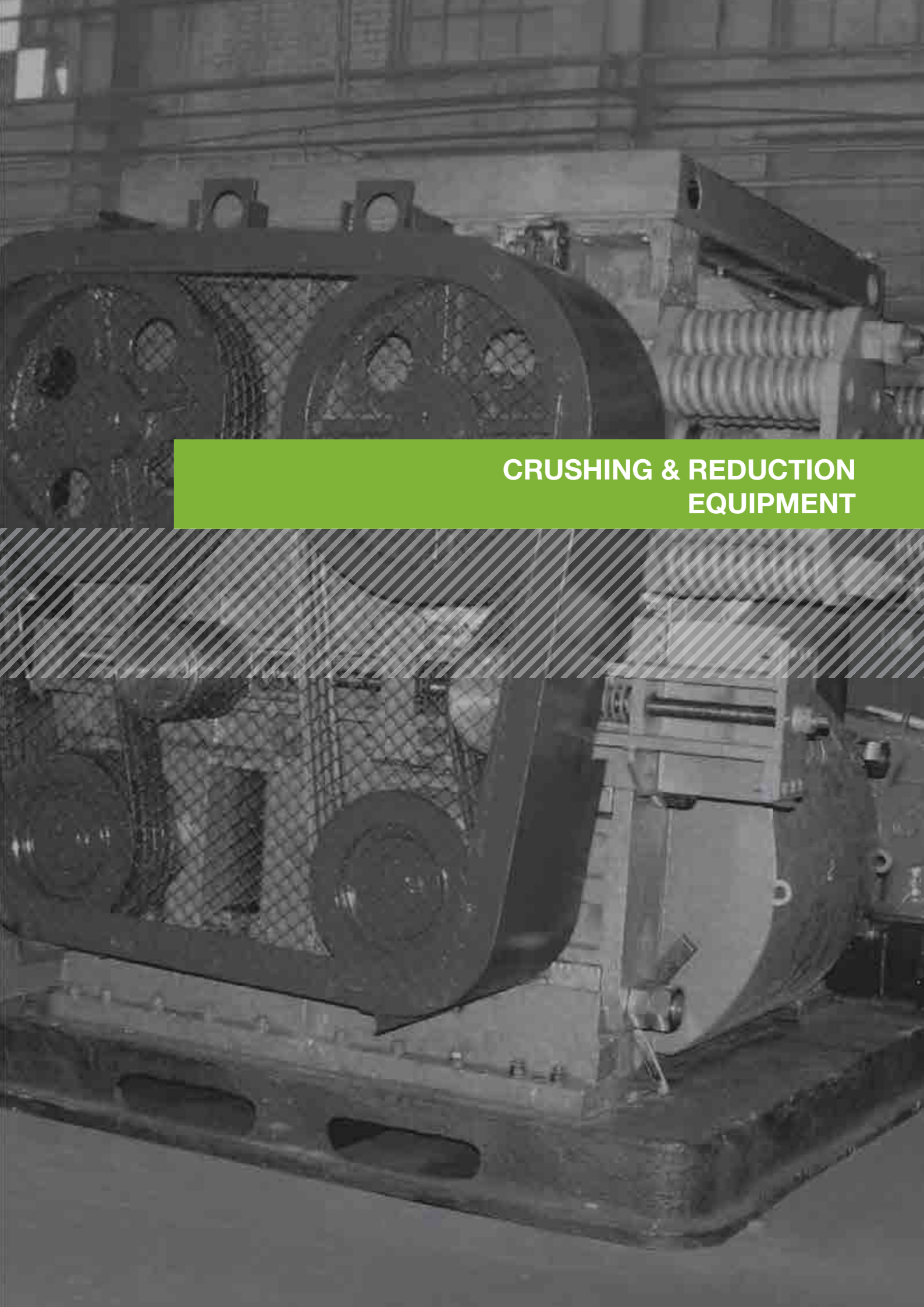


CRUSHING & REDUCTION EQUIPMENT

TOOTHED SCREW CRUSHER DShZ -1300/300

Toothed screw crusher is designed for loading of mined rock with the maximum feed size up to 1500 mm (Protodyakonov hardness up to 15) and its crushing to the output size of 300 mm. A crusher is installed at the coarse crushing stage.

Toothed screw crusher consists of as follows: body; two screws; reduction gear; drive; measurement instrumentation.

Toothed screw crusher main advantages and structural features:

- suitable for crushing of large rock pieces;
- high performance;
- high wear resistance of cutters due to the specially-shaped teeth;
- good maintainability due to the module design of main components and quick-detachable teeth.

SPECIFICATIONS	VALUE
Capacity, m^3/h	2000
Installed power, kW	800
Feed size, mm	up to 1500
Output size, mm	up to 300
Overall dimensions, mm: - height - width - length	 2500 3800 9310
Weight, kg	110000

Manufacturing period – 160 days

FOUR-ROLL CRUSHER D4G 950X800

Four-roll crusher is designed for crushing of solid fuel (coal, coke) with Protodyakonov hardness up to 15 and is installed for the fine crushing.

Four-roll crusher consists of as follows:

- supporting frame;
- two cast base frames;
- material crushing area protective guard;
- upper cover;
- two pair of rolls (lower and upper) with drives;
- shroud ring grinding devices;
- tensioning devices;
- electric equipment.

Four-roll crusher main advantages and structural features:

- increased capacity as compared with now existing machines;
- mechanical cleaning of rolls;
- renewable liners.

SPECIFICATIONS	VALUE	
Model	D4G 900x700	D4G 950x800
Capacity (at upper to lower rolls spacing of 3,0 mm), t/h	up to 16	up to 27
Installed power, kW	up to 40	up to 40
Feed size, mm	0…3	0…5
Overall dimensions, mm: - height - width - length	 2 603 3 335 4 428	 2 603 3 335 4 324
Weight, kg	34368	33000

Manufacturing period – 160 days

HAMMER CRUSHER DRMIA 1450X1300-100

Hammer crusher is designed to size-reduction of limestone, marl, chalk-stone, plaster-stone, coal and other raw materials. Structural features of hammer crushers allow replacement at the existing foundations.

Hammer crusher consists of as follows:
- body;
- rotor with hinged hammers;
- lattice grates;
- controlling devices.

Hammer crusher main advantages and structural features:
- high reduction ratio;
- minor costs per the processed material unit;
- small power consumption, weight and dimensions per unit of capacity;
- convenient and quick maintenance due to the access doors provided.

SPECIFICATIONS	VALUE
Capacity, m^3/h	100
Installed power, kW	500
Feed size, mm	up to 80
Output size, mm	0…3
Overall dimensions, mm:	
- height	2310
- width	3450
- length (including electric motor)	4645
Weight, kg	23800

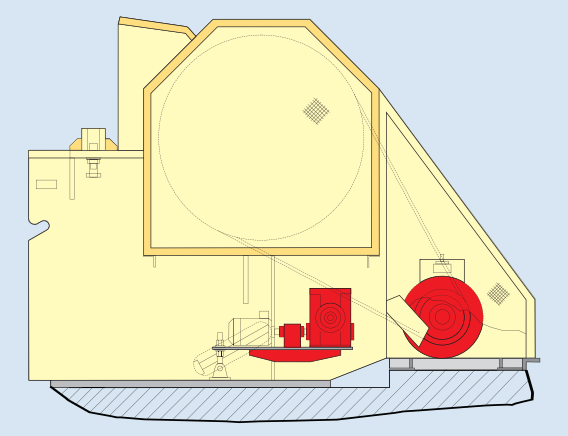
Manufacturing period – 160 days

JAW CRUSHER DSh 600X900

Jaw crusher is designed for crushing of slag, granite, basalts, quartzrock and other rocks including high-strength and high abrasive ones. Crusher is designed for the intermediate and coarse crushing.

Jaw crusher consists of: base frame; assembled jaws; gap control mechanism; drive; hoppers; electric equipment.

Jaw crusher main advantages and structural features:
- small size (as compared with other crushers of similar type);
- suitable for production sites of small capacity.

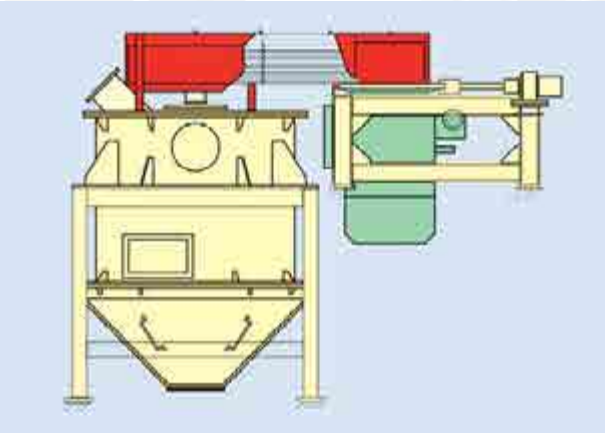


SPECIFICATIONS	VALUE
Capacity, m^3/h (at rated output gap width)	75
Installed power of main drive motor, kW	75
Feed size, mm	up to 500
Output size, mm	75…130
Feed mouth width, mm	600x900
Overall dimensions, mm: - height - width - length (without electric equipment)	 2500 2500 2700
Weight, kg	21000

Manufacturing period – 160 days

BALL MILL «MAYA»

Vertical mill dynamic autogenous grinding is intended for fine crushing and grinding of mineral raw materials and building materials. Crushing and grinding of the particulate material in the mill is effected by impact, chipping and abrasion without the use of grinding media.



The mill consists of:

- drum Assembly with the shaft and the rotor;
- frame;
- electrical equipment;
- drive.

The basic advantages and design features of the mill:

- easy operation;
- the intensity is lower in 2 times in comparison with known analogues;
- small overall dimensions;
- quiet operation;
- the absence of grinding media.

SPECIFICATIONS	VALUE	
	MAYA-10*	MAYA-R25
Capacity, т/h	10	50
Installed power, kW	90	1 000
Feed size, mm	up to 80	150
Output size, mm	up to 0,05	3...4
Overall dimensions, mm: - height - width - length	 2 570 1 750 3 495	 8 700 3 500 12 900
Weight, kg	6 000	58 200

*dimensions are given without supporting metal structures.

Manufacturing period – 160 days

TWO-COMPARTMENT BARREL MILL

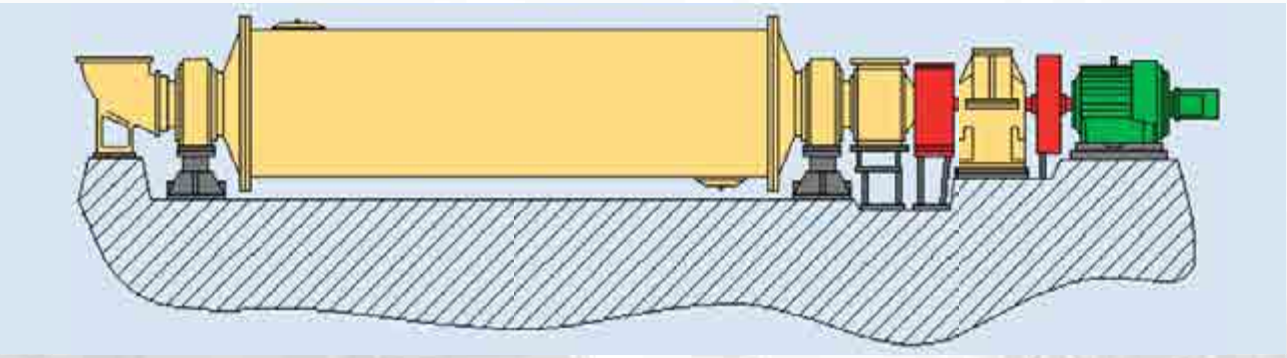
Two-compartment barrel mill is designed for dry milling of construction materials of low and medium hardness.

Two-compartment barrel mill consists of as follows:

- charging funnel;
- feeding device;
- barrel;
- body;
- frame;
- support;
- drive;
- protective guards;
- electric equipment.

SPECIFICATIONS	VALUE
Capacity, t/h	8
Installed power, kW	132
Feed size, mm	up to 50
Output size, mm	up to 6
Overall dimensions, mm: - height - width - length	 11555 2500 2300
Weight, kg	24870

Manufacturing period – 160 days



APRON FEEDER

Feeder plate-designed for uniform feed from the hopper lumpy rock mass bulk weight up to 2.5 t/m3. The tape feeder can take the load of the falling blocks of rock weighing up to 3...6 tons with height 6...10 m, if the tape is already a layer of rock with a minimum height of 1...1.5 m. the Feeder can be installed horizontally or with an inclination not exceeding 15°.

The feeder consists of: a frame; upper and lower support rollers; a blade; a tensioning device having a mechanism of cleaning of spillage; the drive shaft with the sprocket; a drive device for adjusting the position of the canvas and centralized lubrication.

The main advantages and structural features of the feeder plate: simplicity and reliability; possibility of continuous operation mode; the ability to install angle of 15°.

Feeder size	Крупность загружаемого материала, max, мм	Feeder length, mm	Feeder width, mm	Speed, max, m/s	Maximum capacity, m^3/h	Weight, kg
1-15-45	900	4500	1500	0,08	300	42000
1-15-60		6000				46000
1-15-90	900	9000	1500	0,06	350	57000
1-15-120		12000				68000
1-15-150		15000				80000
1-18-60	1200	6000	1800	0,06	350	53000
1-18-90		9000				66000
1-18-120		12000				80000
1-18-150		15000				93000
1-18-180		18000				106000
1-24-90	1500	9000	2400	0,06	600	76000
1-24-120		12000				92000
1-24-150		15000				108000
1-24-180		18000				125000
2-12-30	400	3000	1200	0,3	650	16000
2-12-45		4500				19100
2-12-60		6000				22300
2-12-90		9000				28900
2-12-120	400	12000	1200	0,3	650	35700
2-15-30		3000	1500	0,25	800	17200
2-15-45		4500				20500
2-15-60		6000				25400
2-15-90		9000				34800
2-15-120		12000				42200
2-18-45		4500	1800	0,16	800	28800
2-18-60		6000				29250
2-18-90		9000				35400
2-18-120		12000				41500
2-18-150	400	15000	1800	0,16	800	49000
2-18-180		18000				53000
2-24-45		4500	2400	0,16	1500	30600
2-24-60		6000				32650
2-24-90		9000				41900
2-24-120		12000				50000
2-24-150		15000				55300
2-24-180		18000				62400

Manufacturing period – 160 days

WEAR-RESISTING PARTS FOR CRUSHING AND REDUCTION EQUIPMENT

PJSC "Dneprotyazhmash" manufactures wear-resistant parts by your own drawings and drawings of the Customer.

1. For the cone crusher KSD T , CCD/180, KMD 1750, KRD 700/100, T KMD, KRD 900/100, KKD 500 and other types of crushers both domestic and imported, produces a complete spectrum of moving and stationary armor and waist armor. Armor made of wear-resistant manganese steel 110G13L and GM with mechanical treatment. It is possible to produce other types of armor crushers for domestic and imported weighing up to 6000 kg.

2. For mills balls Sh50 and Sh50A (for crushing coal) the production of a full set of front end tapered armors for hatch, drums, ring gears, end front (rear) walls and protracted wedges. Production of armor 110G13L steel is produced without machining.

3. On ball and rod mills MShR, MShTs, MSTs, MGR type of various sizes are produced frontal armors, hatche armors, elevators, as well as plates armors and ring gears of different grades of steel.

4. For SMD type jaw crusher crushing plates available mobile and fixed any configuration for any cracks.

5. For the roll crusher: the bandages.

By Customer request it is possible to manufacture armor plates lining and other wear-resistant products of any configuration of manganese and other steels.

Fixed armor for cone crusher

Moving armor for cone crusher

Waist armor for cone crusher

The brace to the two-roll crusher

The teeth to the bucket

Lining plates

Ring gears

Name equipment	Module and number of teeth	Weight, kg	Material
Sh 50	m=20, z=244	13285	35HML, 45L
Sh 50A	m=20, z=244	12820	45L, 50L, 35HML
MShR 3,6x4,5; MShTs 3,6x5	m=20, z=268	16480	45L
MShR 4,0x5,5	m=20, z=288	20130	45L
Drum cooling return	m=20, z=86	1185	35HML
MMS-70-23	m=20, z=254	18450	45L

Drums to ball mills

SPECIFICATIONS	VALUE
Drum length, mm	7510
Flanges diameter (outer), mm	4450
Flanges thickness (outer), mm	80
Intermediate flange diameter, mm	4536
Execution manholes	Welded (cast)
Weight, kg	49700

At will of Customer it is possible to produce crowns of different material and different hardness.