



ORE MINING AND PROCESSING EQUIPMENT

THE TROLLEY MINING TRUCKS VG 4.5 A

Mine and cargo cars VG,5A are applied to the mining industry and are designed for transportation of rock mass in horizontal haulage underground workings and at industrial sites of mines. Trolley used to transport the minerals with a bulk density less than 3.0 t/m³. The radius of Railways at least 15 m. the Unloading of the trucks is carried out in a circular dumpers without uncoupling of.

The trolley consists of a body, frame, wheelset and the buffer device with the sectional rotating the coupling. Welded body of the trolley is mounted on a frame with a buffer device, wheel sets and rubber-metal chip metallic dampers.



SPECIFICATIONS	VALUE
Nominal capacity, m ³	4,5
Carrying capacity, t	13,5
Track gauge, mm	750
Overall dimensions, mm: - length (over buffers)/width/height	3950/1350/1550
Высота оси сцепки от уровня головки рельса, мм	365
Тип сцепки: звеньевая вращающаяся	
Тяговое усилие на сцепке, Н (кгс)	100000 (10000)
Масса, кг, не более	3625

Manufacturing period – 60 days

PUMPS NP-800-2M AND NP-500M



Pumps NP-800-2M and NP-500M are centrifugal barrel insert pumps with the vertical discharge manifold. Pumps are intended for pumping of abrasive water mixtures. Pumps are used at ore mining-and-processing integrated works.

SPECIFICATIONS	VALUE	
Type	Pump NP-800-2M	Pump NP-500M
Capacity, m ³ /s (m ³ /h)	2,22 (8000)	1,39 (5000)
Head, m	71	55
Impeller rotation speed, 1/s (rpm)	6,08 (365)	8,33 (500)
Pump power (max), kW	2400	1250

Manufacturing period – 150 days

PUMP 12GrT-8 (GrT 1600/50)



Soil pump 12GrT-8 (GrT 1600/50) is intended for pumping of neutral and aggressive slurry mixtures (water with the ash, ore, sand, etc.). Pump is designed with impellers of 740 and 840 mm in diameter. Driving-gear bearings operate in oil bath allowing service life extension. Installation of cooling coil is possible at Customer's option. The extended pump shaft axial displacement (± 7 mm) is provided for impeller position adjustment in relation to liner plate and inner shell. Periodic adjustment of the indicated impeller position (approximately after the 300 operating hours) allows pump performance coefficient maintenance at the set level regardless of wetted parts wear.

SPECIFICATIONS	VALUE
Capacity, m ³ /h	1600
Head, m	50

Manufacturing period – 120 days

PUMP PNV-3

Pump PNV-3 is intended for pumping over of abrasive water mixtures and ferromagnetic suspended mixtures at ore processing plants and sewage water at the public utilities.

Advantages: extended service life.

SPECIFICATIONS	VALUE
Feed-based average capacity, m ³ /h	14
Nominal head, m	25
Installed power of motor, kW	15
Pump impeller rotation speed, s ⁻¹	24,2
Overall dimensions (without motor), mm:	
- height	1326
- length	1200
- width	518
Pump weight without motor, kg	310



Manufacturing period – 90 days

СПИРАЛЬ КЛАССИФИКАТОРА

Spiral classifier is the main part of spiral classifier is designed for separation by size fine material in an aqueous medium for the enrichment of ores of nonferrous and ferrous metals and other minerals. The spiral classifier is a semi-cylindrical body in which a longitudinal shaft rotates the spiral. The classification process in such devices is carried out in a moving stream of water. The size of the grains generated in the drain is 0.15 mm or less. The company can produce classifiers spiral diameter from 300 to 1600 mm and a body length from 3000 to 9000 mm.



Manufacturing period – 100 days

DRUM-TYPE MAGNETIC SEPARATORS

Drum-type magnetic separators are intended for the wet concentration of high-magnetic ores and recovery of ferromagnetic suspended mixtures. Separator consists of magnetic drum with inside-mounted drive, bath, feeding device, discharge chute, drain assembly and frame. Separators with outside-mounted drive are developed as well.

Advantages:

- enhanced wear resistance;
- high reliability.



Manufacturing period – 120 days

SPECIFICATIONS	PMB-PP-90/250	PMB-PP-120/300
Drum working part diameter, mm	900	1200
Drum length including shoulders, mm	2500	3000
Drum electric motor rated power, kW	4,5	7,5
Magnetic induction (magnetic field strength) in the working area, T (KA/m)	0,16 (127,4)	0,16 (127,4)
Overall dimensions, mm: length/width/height	3300/2000/2200	3520/2225/1830
Separator weight (without control equipment), t	3600	5600

STACKING TRUCK

Stacking truck is self-propelled conveyor-type handling machine intended for stacking of iron-ore concentrate at the inside storage of ore processing factory. Depending on the method of installation on trestle of storage two types are foreseen of machines:

I Type - conveyor jib is located on the right to the storage conveyor belt travel direction;

II Type - conveyor jib is located on the left to the storage conveyor belt travel direction.

We are capable to manufacture other handling and storage equipment (stacking trucks, loading elevators, etc.).

Advantages:

- high reliability
- low operational costs

SPECIFICATIONS	VALUE
Capacity, t/h	1 050
Conveyor belt width, mm:	
- storage	1 200
- jib	1 400
Machine traveling speed, m/min.	14
Conveyor jib reach, m	10,24
Material drop height, m	4,266
Maximum machine operating run, m	43
Gauge, m	4,0
Overall dimensions (with discharge car), mm:	
- length (along path)	14,27
- width	15,33
- height (from the rail level)	6,645
Control: remote, local	
Weight:	
- without material, kg	32 770
- with conveyed material, kg	36 899



Manufacturing period – 150 days

SPARE PARTS FOR ORE MINING AND PROCESSING EQUIPMENT

We take orders for manufacture of spare parts for the machines and equipment of any production. We are capable to manufacture spare parts from the Customer's drawings or develop the technical documentation taking into account available operation experience with introduction of state-of-the art engineering solutions.

We have mastered industrial production of following spare parts for ore mining and processing equipment:

- shaft gear with the m module from 4 mm to 30 mm;
- the toothed wheel with the m module from 4 mm to 30 mm;
- shaft-gear for crushers $m=20$, $z=35$;
- shaft gear and wheel gearboxes;
- blocks of gears, rack handles, housings kiln trucks, bearing housings, casings and covers of the gearboxes, wheels and a tensioning wheel drive, wheel running and idle, caps mills, axle upper and lower supports.

