



C o m p a n y  
**PLASMA**

production and supply of mining  
and transport-lifting equipment





# Company Plasma

## Winches



We offer such kinds of winches:

- auxiliary mine winches;
- electric tractive winches;
- mounting winches;
- shunting winches;
- scraper winches;
- shunting devices.

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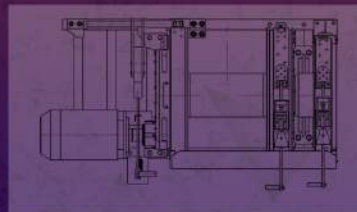
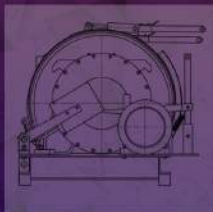
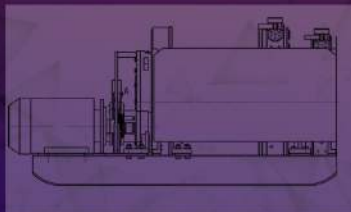
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### Auxiliary mine winches



Auxiliary winches (AW) are intended for descent and lifting equipment and materials on inclined developments of coal mines, equipped with resources of rail transport and terminal trammings, as well as other odd works in horizontal mine workings with variable profile. Winches can be used in the mines of any category of gas and hazardous dust.

Specifications	1LSHV-01	LV-25	LV-45
Line pull at last layer spiral coiling kN (kgf)	14 (1400)	25 (2500)	45 (4500)
The average speed of the rope, m / s	0,7	1,2	1,3
Diameter of the rope, mm	12	15	19
Rope length of the drum, m	300	1200	1100
Electric motor:			
- type	AIU132M4	AIU180M4	AIU225M4
- power, kW	11	30	57,2
- frequency of rotation, rev / min	1500	1500	1500
Sizes, mm:			
- length	940	1070	2000
- width	1250	2020	2000
- height	820	1100	1500
Weight of the winch without rope, kg	700	2400	4500



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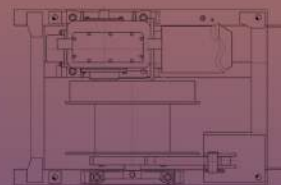
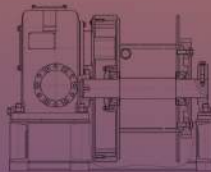
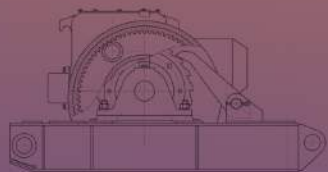
## Company Plasma

### Shunting winches



Winches pushing LM-71 and LM-140 are intended for work related to the movement of goods along a horizontal path. It can be used for pulling rail cars carrying capacity of 63-125 tons for loading points. Small-sized and compact winches are due to their construction. Manufactured in two design versions: - Hard drive drum for both directions of rotation of electric motors; - With a free swing of the drum by reversing the rotation of the motor.

Name	Line pull, kgf	Rope length of the drum, m	Diameter of the rope, mm	The estimated rate of winding the rope on the first layer, mps	Rated power, kW	Overall dimensions, mm	Weight without rope, kg
LM-71	7100	100	22,5	0,2	11,8	1200×1250×1000	1060
LM-140	14000	200	28	0,2	26,5	1600×1440×1300	2400



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# Company Plasma

## Electric tractive winches



Electric tractive winches were designed for the production of material handling operations during construction, installation and other works, as well as to complete crane boom adjustable, construction hoists, and other lifting devices to move the railway cars for loading and unloading areas of railroad warehouse.

Characteristics	TL-8B	TL-8M	TL-10M	TL-15M	TL-20M
Line pull, kN (t)	50 (5)	80 (8)	100(10)	150(15)	200(20)
Rope length of the drum, (auxiliary) m	200 (200+200)	350 (350+350)	250 (250+250)	250 (250+250)	365(+730)
Diameter of the rope, mm	22,5 (6,9)	25 (9,1)	28(11)	32(11)	35(15)
Drum diameter, mm	325 (219)	430 (273)	530(273)	530	630
The estimated rate of winding the rope on the first layer, mps	0,027	0,048	0,052	0,052	0,064
Weight of goods move around in cars, t	315	500	750	960	1200
Overall dimensions, mm	1666x1625x875	1945x1830x1115	2230x2170x1115	2230x2170x1115	2250x2690x1700
Weight of winch, kg	1200	2780	2980	3700	8000



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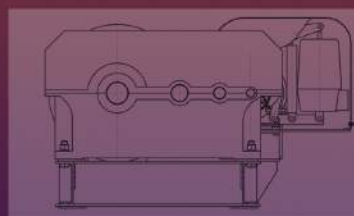
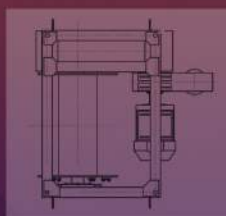
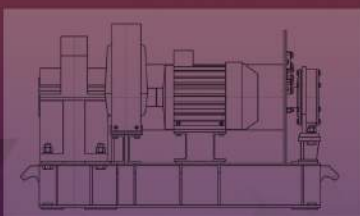
## Company Plasma

### Mounting winches



Mounting winches are used to move goods during installation and other works, as well as equipment designed for lifting devices. Mounted on a foundation or on the loading frame. Operating position winch - horizontal.

Characteristics	LM-2	LM-3,2	LM-5	LM-8A	LM-10A
Max. line pull, kN	2000	3200	5000	8000	10000
Rope length of the drum, m	250	250	250	250	415
The estimated rate of winding the rope on the first layer, mps	0,3	0,3	0,29	0,117	0,08
Diameter of the rope, mm	13,5	18	22	28	30,5
Rated power, kW	7,5	11	15	15	15
Type of breaks	TKT-200	TKT-200	TKT-300	TKT-200	TKT-200
Weight of winch without rope, kg	585	1000	1200	2425	3000
Overall dimensions, mm	1266×1070×760	1115×1430×745	1850×1784×930	2480×1835×1106	2315×2225×1093





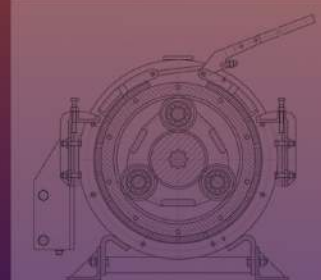
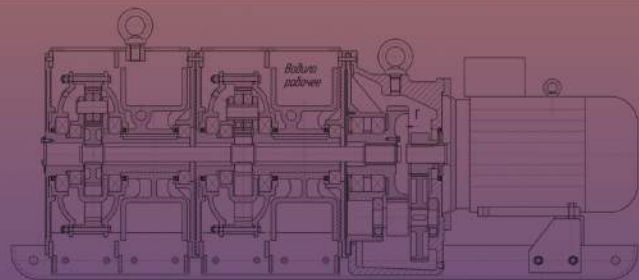
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## Scraper winches



Scraper winches have a certain structure, made up of so-called separate transportable units. Management manual winches. The scraper winches differs simplicity to operate, simple design, as well as compact and has great traction forces. Used to transport separated from the solid rock mass on the horizontal and sloping mine workings, for moving of loads and equipment when cargo-unloading and assembly and dismantling work in mines.

Name	Tractive force, kgf	Cable length of drum, m	Rope diameter, mm	The average speed of the rope stroke, m/s	The average speed of the rope idling, m/s	Rated power, kW	Overall dimensions, mm	Weight without rope, kg	Weight with magnetic actuator, kg
10LS-2SMA	1000	45	12	1,25	1,7	11	1350×570×561	508	558
17LS-2SMA	1600	60	14	1,26	1,74	18,5	1550×650×632	760	810
30LS-2SMA	2800	90	14	1,3	1,77	30	1938×806×770	1320	1370
30LS-2PMA							1540×1220×893	1450	1500
30LS-3SMA							2400×860×770	1810	1860
55LS-2SMA	4500	100	20	1,46	2	55	2320×995×924	2260	2310
55LS-2PMA							1990×1380×895	2220	2270
55LS-3SMA							2865×1205×925	2960	3110
110LS-2SMA	8000	125	23	1,5	2,1	110	2800×1202×1221	4320	4370
110LS-2PMA							2240×1630×1221	4660	4710
110LS-3SMA							3480×1550×1221	5420	5470





## Company Plasma

### Shunting devices

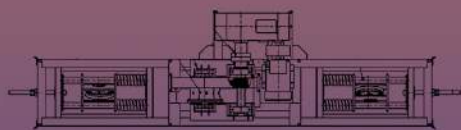


#### Shunting device MU-12M2A

It was designed to move in both directions of railway wagons and trains on migratory routes, or dead-end loading points and other purposes when shunting in conditions that do not require special protection against dust, as well as in non-aggressive and non-explosive environments. Shunting device MU-12MA is available in three versions of the working body: the trolley with pushing rollers with a trolley with automatic coupler and the hook hook.

Shunting MU-12M2A consists of winch (with pulley friction), electrical system blocks (cargo, bypass support), working body, depending on the version. In the embodiment of shunting devices with automatic coupler circuit can operate automatically and operated by one person, which in itself increases the safety of shunting.

Line pull, kN (tf)	98 (10)
The speed of the composition, mps	
- working	0,2
- shunting	0,4
Length (displacement) of the working area, m	150-250
Diameter of the rope, mm	25
Rated power, kW	22/26
Motor speed, rev / min	1500/3000
Weight of winch, kg	4600



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## Company Plasma

The breed-loading machines



We offer such kinds  
of the loading machines:

- Loading machine PPN-1S;
- Loading machine PPN-3A;
- Loading machine 1PPN-5.



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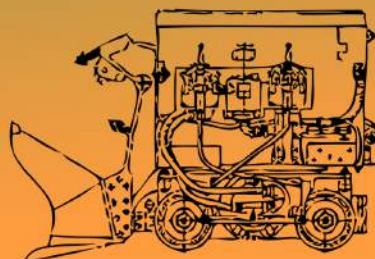
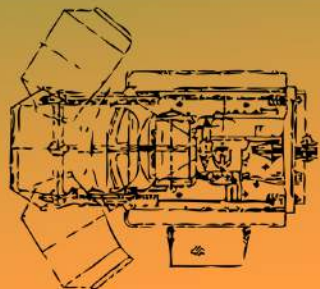
## Company Plasma

The breed-loading machines



Loader machine PPN-1S is a direct air loading, designed for the loading of blasted rock mass of any strength and abrasion in the trolley onto a conveyor or other vehicles when driving horizontal mine workings on developed underground deposits of minerals and construction of underground structures.

Characteristics	PPN-1S	PPN-3A
Technical productivity, m <sup>3</sup> /min	1,25	1,8
Bucket capacity, m <sup>3</sup>	0,25±0,02	0,55
Width of capture, mm	2200	3200
Loading height, mm	1300	1650
Maximum height, mm	2250	2800
Front of loading, m	2,2	3,2
Overall dimensions in transport position, mm:		
length	2270	3200
width	1150	1500
height	1500	1800
Track, mm	500, 600, 750, 900	600, 750, 900
Specific air consumption, m <sup>3</sup> /min	19,5	26,0
The installed capacity of air motor, kW	22	39,8
Compressed air pressure, MPa	0,4 - 0,7	0,4 - 0,7
Weight, t	3,8	6,8



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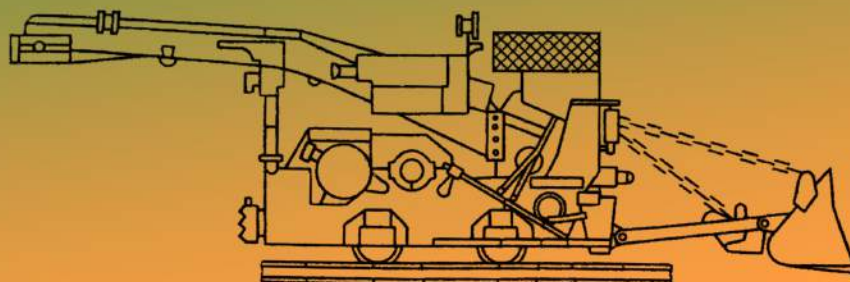
## Company Plasma

The breed-loading machines



Loader machine IPPN-5 is a self-propelled trolley for wheel-rail mounted. Attached to the trolley: a work bucket buffer coupling, swivel the horizontal conveyor. The machine performs cleaning of the bottom of broken rock mass, transport it on the car and loading silo vehicles. The design provided for mounting the attachment of drilling equipment for the drilling face.

Characteristics	Value
Productivity, m <sup>3</sup> /min	1,25
Minimum cross-section work that have been done (in light), m <sup>2</sup>	6
Maximum size pieces of broken rocks, mm	400
The range of angles productivity, hail	20
Overall dimensions in transport position, mm:	
length	7000
width	1400
height	1750
Rated power, kW	600
Current frequency, Hz	50
Track, mm	600, 750, 900
Weight, t	9,8



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# Company Plasma

## Trolleys



We offer such kinds  
of trolleys:

- trolleys VG;
- trolleys VO;
- trolleys VDK.

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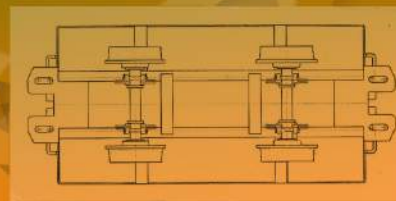
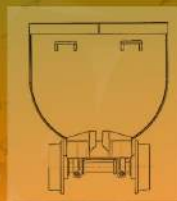
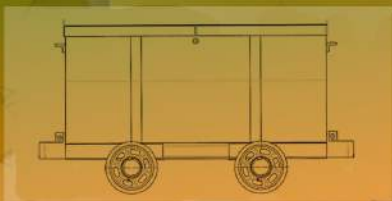
# Company Plasma

## Trolleys VG



Mine trolleys VG are used in the mining industry, they were designed for transportation of rocks and goods, not pro-size mine trolley for underground mine and industrial sites and mines. All trolleys are supplied with hook or automatic coupling, Automatic tow hitch provide intermeshing return coupler housing to the initial position deviation when the housing in the vertical plane to 10°, in the horizontal plane to 20°.

Characteristics	The rate for the type									
	VG-0,8-600	VG-1,2-600	VG-1,3-600	VG-1,4-600	VG-1,6-600	VG-2,5-900	VG-3,3-900	VG-4,5-750D	VG-4,5-900D	
Nominal capacity, m <sup>3</sup>	0,8	1,2	1,3	1,4	1,6	2,5	3,3	4,5		
Maximum load capacity, t	1,5	3			6		13,5			
Track, mm	600			900		750				
Length, mm	1500	1860	2000	2400	2700	2760	3410	3950		
Width, mm	800	850			1240	1320	1350			
The height of the rail head, mm	1300		1230	1200	1300		1550			
Rigid base, mm	450	550	650	800		1100		1250		
The diameter of the wheel rim riding, mm	300			350		400				
The height of the tow from the axis to the rail head, mm	320			365		365				
Weight, kg	560	615	650	660	690	1130	1270	4000	4100	



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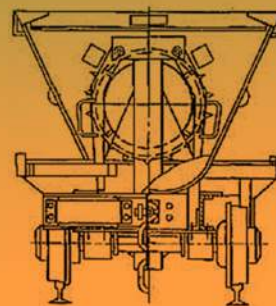
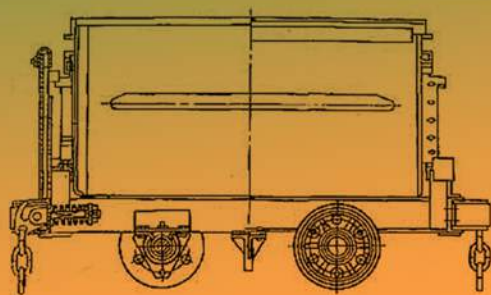


## Company Plasma Trolleys VO



VO trolleys were designed for transportation of mined rock with a bulk density of not more than  $3 \text{ tpm}^3$  of development faces along the horizontal mine workings, as well as the loading point to the receiving hopper in the mines of ferrous and non-ferrous metallurgy, chemical industry and in the construction of tunnels

Characteristics	VO-0,5	VO-0,8
Nominal capacity, $\text{m}^3$	0,5	0,8
Load capacity, t	1,5	2,4
Track, mm	600, 750	
The diameter of the wheel rim rolling, mm	300	
Type of coupling	hook lift	
Height of the tow from the rail head, mm	320	
Rigid base, mm	550	
Overall dimensions, mm:		
— Length by buffers	1500	1875
— width	1125	
— height from the rail head level	1270	
The size of loaded pieces, mm	300	
Weight, kg	600	700



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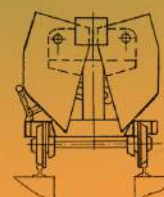
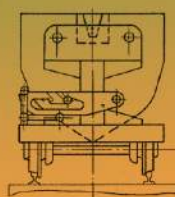
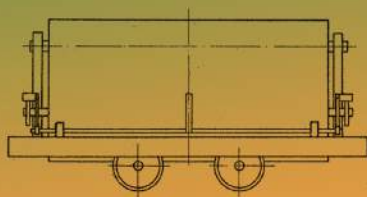


## Company Plasma Trolleys VDK



Mine trolleys with bottom dump VDK are used in the mining industry, intended for the transportation of the rock mass in underground mine haulage drifts. Unloading regardless of the orientation of the trolley with respect to the discharge step is carried out by opening bottoms in moving type clutches composition.

Characteristics	The rate for the type	
	VDK 2,5-900	VDK 3,3-900
Nominal capacity, m <sup>3</sup>	2,5	3,3
Max. load capacity, t	4,5	5,6
Track, mm	900	
Length, mm	2450	3010
Width, mm	1240	
The height of the railhead, mm	1500	1240
Rigid base, mm	1670	1870
The diameter of the wheel rim rolling, mm	350	
Height of the tow from the rail head, mm	365	
Weight, kg	1550	1640





# Company Plasma Grabs



We offer such kinds of grabs:

- Two of jaws grabs;
- Motor grabs;
- Hydraulic grabs;
- Lots of jaws grabs.

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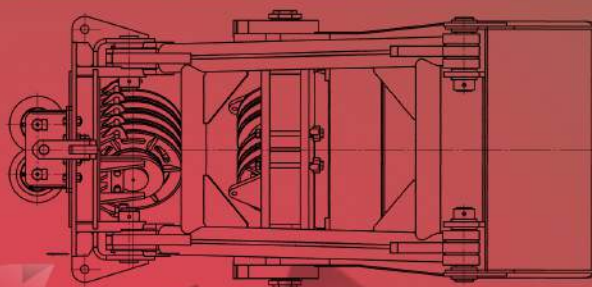
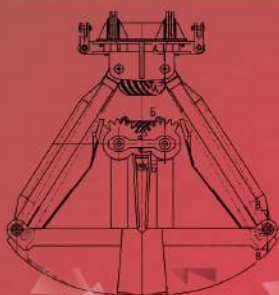
## Company Plasma

### Two of jaws grabs



Two of jaws grabs are a type of lifters, which are used for loading and unloading with lumpy and granular materials (sand, slag, crushed stone, gravel, coal). It is used on a gantry, bridge and tower cranes, as well as on the excavator instead of a conventional bucket.

Type	Load capacity, t	Calculated volume, m <sup>3</sup>	Weight of cargo, t	The density of the cargo, t/m <sup>3</sup>	Weight of grab, t
Two of jaws monoroape	0,5-15	0,1-7	0,2-7	0,8-2,5	0,3-8
Two of jaws doubleroape	2-16	0,1-5,3	0,5-9,54	1,5-2,0	0,5-7
Two of jaws threeroape	5, 10	0,75-2,3	1,0	1,6-2,85	1,8-3,5
Two of jaws fourroape	2-25	0,35-12	1,6	1,6-3,2	0,6-12





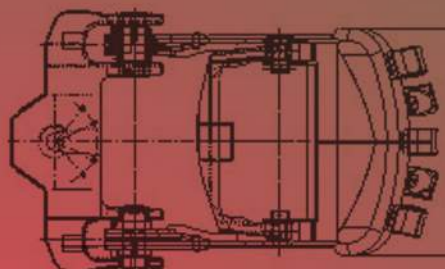
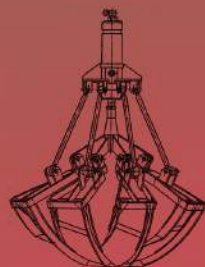
## Company Plasma

### Lots of jaws grabs



*Lots of jaws lifters, which are used in loading and unloading with lumpy and granular materials (sand, slag, crushed stone, gravel, coal). It is used on a gantry, bridge and tower cranes, as well as on the excavator instead of a conventional bucket.*

Тип	Load capacity, t	Calculated volume, m <sup>3</sup>	Weight of cargo, t	The density of the cargo, t/m <sup>3</sup>	Weight of grab, t
Lots of jaws monoroape	0,5-15	0,1-7	0,2-7	0,8-2,5	0,3-8
Lots of jaws doublerope	2-16	0,1-5,3	0,5-9,54	1,5-2,0	0,5-7
Lots of jaws fourroape	2-25	0,35-12	1,6	1,6-3,2	0,6-12





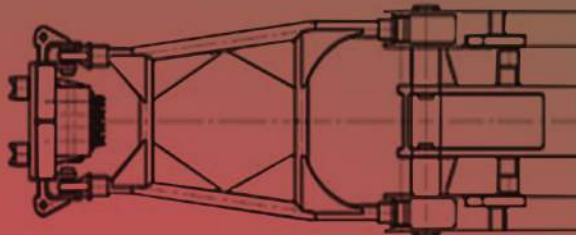
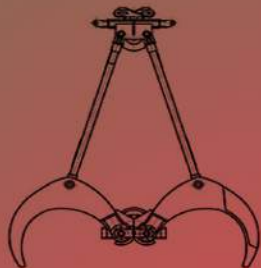
# Company Plasma

## Motor grabs



Motor grabs are a type of lifters, which are used for loading and unloading with lumpy and granular materials (sand, slag, crushed stone, gravel, coal, etc.). It is used on a gantry, bridge and tower cranes, as well as on the excavator instead of a conventional bucket.

Type	Load capacity, t	Calculated volume, m <sup>3</sup>	Weight of cargo, t	The density of the cargo, t/m <sup>3</sup>	Weight of grab, t
Two of jaws of motor	2-12	0,3-3,5	0,8-6,3	1,6-2,5	0,9-5,5
Lots of jaws of motor	5,0-10,0	0,7-1,5	1,75-5,0	2,0-4,5	2,7-4,8





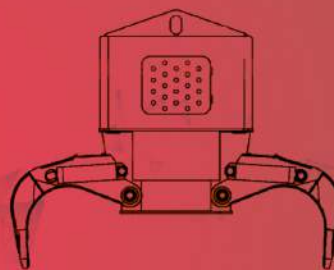
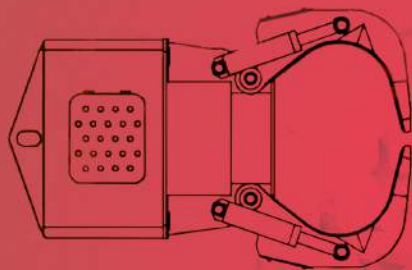
## Company Plasma

### Hydraulic grabs



Basically, the use of hydraulic grabs are due to the creation of a larger effort jaws to work with the most dense cargo. They also have worked well when operating under the influence of moisture. The use of a particular scheme depends on the nature of your work in our marketing department will advise you in more detail about all the advantages of a hydraulic grab.

Type	Load capacity, t	Calculated volume, m <sup>3</sup>	Weight of cargo, t	The density of the cargo, t/m <sup>3</sup>	Weight of grab, t
DG2-G-1-S3-0,07	1,0	0,07	0,3	1,6-2,0	0,6
DGMg2-5-VT2-0,4	5,0	0,4	1,8	4,0-4,5	1,5
DGMg2-5-T2-0,8	5,0	0,8	2,5	2,5-3,0	2,2
DG2-G-5-S3-1,2	5,0	1,2	2,4	1,6-3,0	1,2
DGMg2-5-S3-1,2	5,0	1,2	2,4	1,6-2,0	2,4
DGMg2-5-S3-1,5	5,0	1,5	2,7	1,6-1,8	2,3
DGMg6-5-T1-0,5	5,0	0,5	2,0	2,0-2,5	2,6
DGMg6-10-T1-1,0	10,0	1,0	5,0	2,0-2,5	3,6

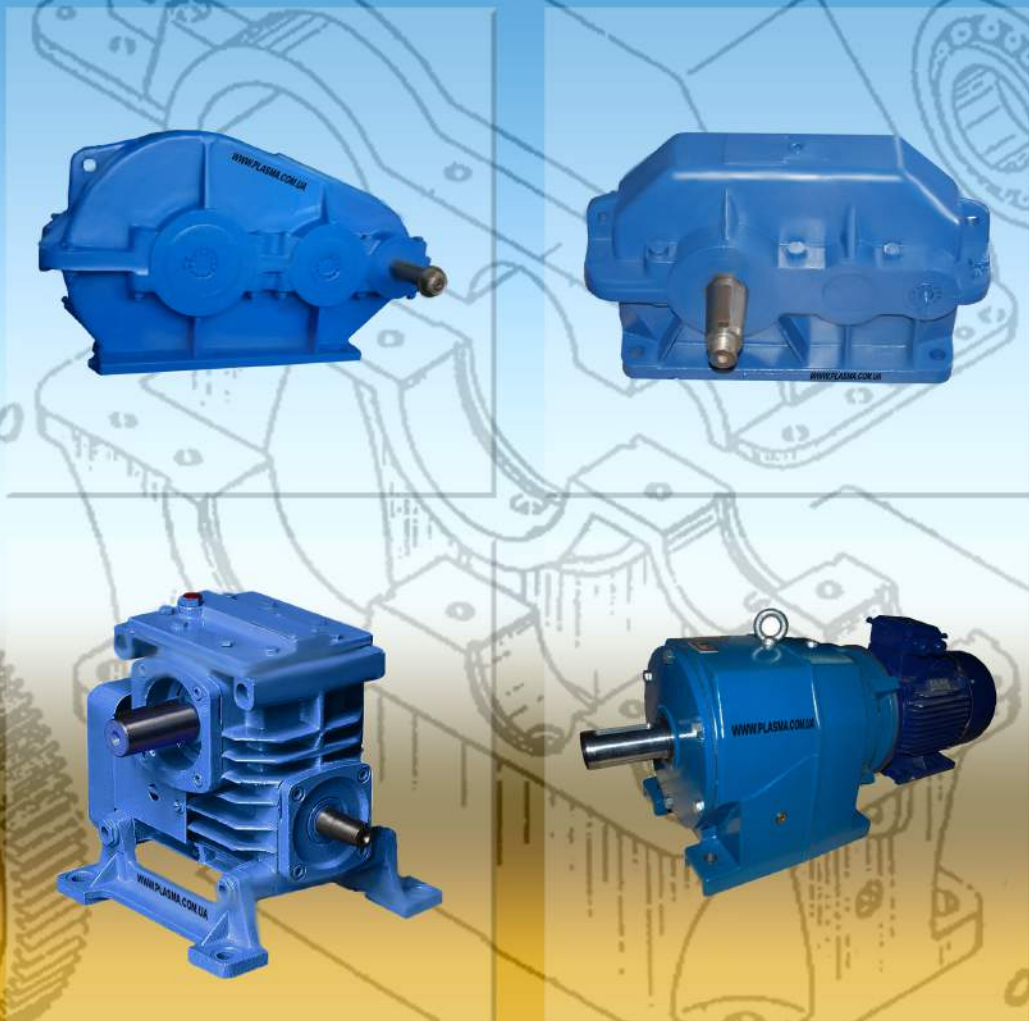


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# Company Plasma

## Reducers



We offer such kinds of reducers:

- Worm reducers;
- Cylindrical reducers;
- Planetary motor-reducers.

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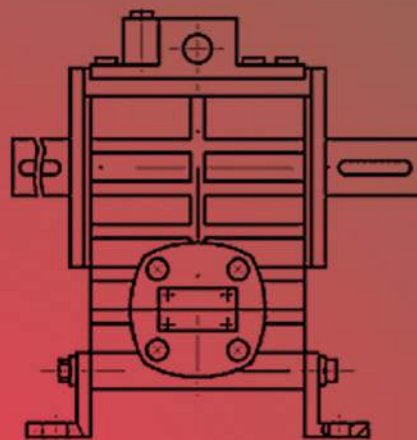
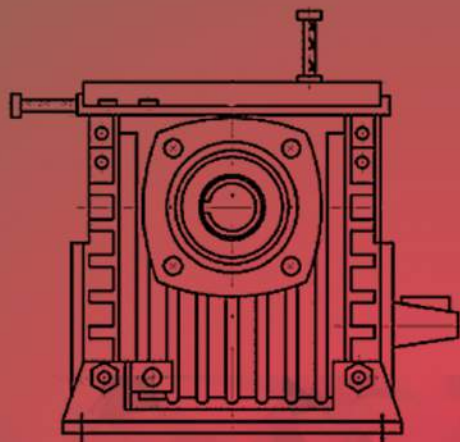
# Company Plasma

## Worm reducers



Worm reducer is a mechanical device for transmitting rotation between the skew (usually at right angles) by means of the screw shafts (screw) and conjugated them with the worm gear (worm reducer). The worm screw is a trapezoidal or near the thread and the worm wheel is a toothed wheel, the teeth of which are of particular arcuate shape.

Type	Gear ratio	Input speed, min <sup>-1</sup>	The torque on the output shaft, N·m
Worm reducers singlestage universal H	8-80	750-1500	212-2000
Worm reducers singlestage universal 2H	8-80	1500	260-2600



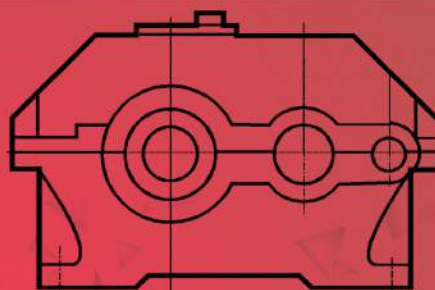
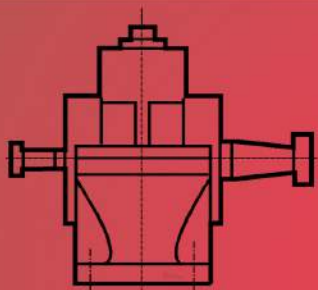


## Company Plasma Cylindric reducers



Cylindric reducers were designed for use in drives of different machines and mechanisms for changing the torque and speed. Cylindrical reducers are horizontal work horizontally supporting plane down vertical cylindrical work upright. When reversing work permissible torque must be reduced by 30%.

Type	Gear ratio	Input speed, min <sup>-1</sup>	The torque on the output shaft, N·m
Reducers conic-cylindrical two stages KC1 and three stages KC2	6,3-28	600-1500	460...800 - 5700 ... 11500
Reducers cylindrical single stage thin 1CU	2-6,3	500-3000	2500 - 4000
Reducers cylindrical two stages 1C2U и 1C2N	8-40	1500	315 - 5000
Reducers cylindrical two stages RM	8-50	600-1500	243...308 - 15863 ... 18623
Reducers cylindrical two stages RCD	10-40	600-1500	431...505 - 1990...2300
Reducers cylindrical two stages CDN	10-50	до 1500	71000, 100000
Reducers cylindrical two stages special crane C2	8-50	600-1500	650 ... 825 - 47500 ... 58000
Reducers cylindrical two stages special crane RK	8-50	600-1500	8770 ... 10040 - 15575 ... 15605
Reducers cylindrical two stages crane GPSH	8-50	1000-1500	to 44,5
Reducers cylindrical three stages 1CZU и 1CZN	16-200	1500	1250 - 16000 ... 20000
Reducers cylindrical three stages special CTND	63-160	750-1500	8300 - 28500
Reducers cylindrical three stages vertical crane V	10-100	1000	172 ... 563 - 2750 ... 10000
Reducers cylindrical three stages vertical crane VK	10-125	1000...600	85 ... 725 - 2000 ... 2400
Reducers cylindrical three stages vertical crane reinforced VKU	14-140	1000	to 27200
Reducers cylindrical three stages special with vertical shafts CSN	63-224	1500	4200 - 29000



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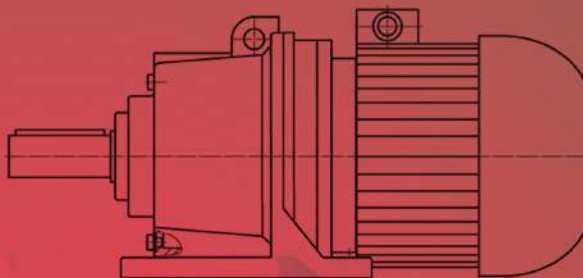
## Company Plasma

### Planetary motor-reducers



*Planetary motor-reducers are consist of reducer, where gear is a planetary, that is several satellites gear wheels rotate around the center wheel and the driving motor. Planetary motor reducers can be combined with a cylindrical, conical or worm-type mechanism.*

Type	Gear ratio	Output speed, rev/min	The torque on the output shaft, N·m	Power, kW
Motor-reducers planetary 3MP	3,55 - 280	3,55...16 - 112...280	71...82 - 3500...5550	0,18...0,55 - 30...132
Motor-reducers planetary one stage MPO1M	5,74 - 7,34	130 - 250	110 - 290	3,0 - 7,5
Motor-reducers planetary two stages MPO2M	23,1 - 2469	0,63 - 63	133 - 3350	0,37 - 11
Motor-reducers planetary one stage MR1 and two stages MR2	4,76 - 100	16 - 315	550 - 2105	11 - 132
Motor-reducers planetary vertical MRV02 and MRV04	4 - 59,44	25 - 355	20 - 124	4,3 - 15,7



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