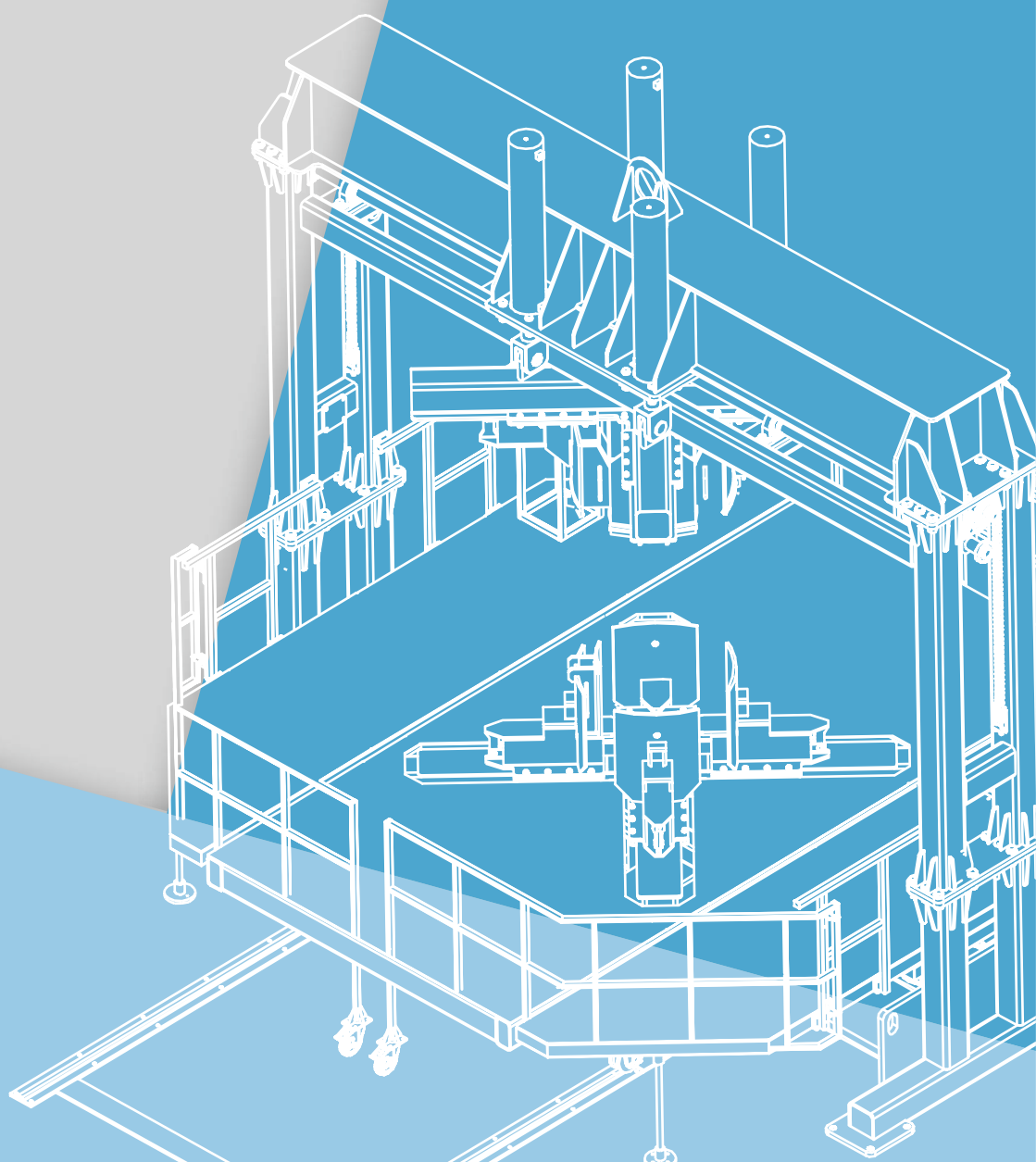


EQUIPMENT FOR QUARRY MACHINERY REPAIR



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Introduction.....	3	«SKC» rotating jig for assembly/disassembly of dumping mechanism cylinders and suspension of mine dump trucks.....	71
About the company.....	4	«PSGD» device for removal/installation of quarry machinery hydraulic cylinder.....	75
Section: Maintenance			
Maintenance module for dump trucks (MM).....	5	Maintenance and Repair of Main Transmission and HMT	
Mobile oil dispenser (MOD).....	6	«PGP» device for disassembly of main transmission gearbox (rear axle) of BelAZ mine dump trucks.....	78
Lifting Equipment and Work with Wheels			
«DPAT» series hydraulic trolley jacks.....	11	«SKGP» tilting engine stand for assembly/disassembly of main transmission differential of BelAZ mine dump trucks.....	80
«SPVS» lifting and hanging system.....	16	«SKGM» tilting engine stand for assembly/disassembly of hydromechanical transmissions of BelAZ mine dump trucks.....	82
«TPG/TPM/TMPV» series adjustable stands.....	19	«PSF/PRF/PSV» device for HMT assembly/disassembly	84
«TP» series mechanical stand.....	22	Engine Repair	
«KG» series tire manipulator (wheel–puller).....	24	«SKDV» tilting engine stand for assembly/disassembly of the internal combustion engine (ICE).....	85
«Cormach/SHM» truck tire changer.....	28	Maintenance and Repair of Tracked Vehicles	
«SHD» tire holder.....	31	«VPTC–C» shaped track pin ejector.....	87
«SHM» series mobile tire changer.....	33	«VPTC» track pin ejector.....	89
«GS» automatic grab.....	36	«PVZ» device for removal/installation of bushings.....	91
«PSHM» series stationary tire changer.....	37	«PSB» device for removal/installation of bulldozer armor.....	93
Application table for «SHM» and «PSHM» series static tire changers.....	40	Repair of Components	
«SK/FG/GR» devices for wheel assembly/disassembly.....	41	«RFS» multifunctional reboring–fusing systems.....	95
Maintenance and Repair of Suspension, Drive Units, Dumping Mechanism Cylinders			
«TSMK» self–propelled device.....	45	Hydraulic Cylinders, Pullers and Oil–Pumping Stations	
«PSMK» device for removal/installation of motor–wheel reduction gears for mining trucks.....	49	Self–aligning pullers/built–in drive pullers /press–fitting pullers/travelling puller.....	96
«PSED» device for removal/installation of traction electric motor for motor–wheel reduction gears.....	54	Load cylinders, hydraulic pumps with manual/pneumatic drive.....	100
«PZS–G» device for removal/installation of Caterpillar 773/776/777 final reduction gear.....	56	Oil–pumping stations.....	107
«PZS–U» device for removal/installation of Caterpillar 773/776/777 pillar and hub assembly.....	58		
«TSMK–PZS» multipurpose clamping device for removal/installation of front hub assembly.....	60		
«TSMK–PNU» device for removal/installation of suspension cylinder, dumping mechanism cylinder, hydraulic accumulators.....	62		
«PC–UNI» manipulator for dumping mechanism cylinders and suspension of mine dump trucks.....	63		
«PVH/PVP» devices for operation of the suspension components of BelAZ mine dump trucks.....	65		
«PSS/SGSPU» devices for operation of BelAZ mine dump truck hubs.....	69		



**WE ARE YOUR PARTNER ON THE WAY TOWARDS
SOPHISTICATION. TOGETHER WE WILL ACHIEVE MORE**

**→ STRIVING FOR
THE BEST!**

Speaking with you is important to us

The careful selection of partners is a success factor, the importance of which is growing in the modern world. It is important to find highly-qualified specialists who are actively involved in achieving your goals, who know your production process, understand your problems and find solutions quickly, thereby increasing your efficiency. Contact us, we are professionals in the field of efficient machinery operation.

Siberian Technologies is your reliable partner in the provision of equipment for the all-inclusive maintenance and repair of mining machinery



Our factory has the production facilities, up-to-date equipment and a team of highly qualified specialists



We guarantee our business partners and customers not only the production and supply of the high-quality equipment, but also a full-service package, while accompanying the client at all stages: from commissioning to post-warranty maintenance



We strive to solve your technical problems and offer solutions, while reducing costs and increasing operational efficiency as a result

Our Brands



Equipment and appliances for quarry machinery repair and maintenance

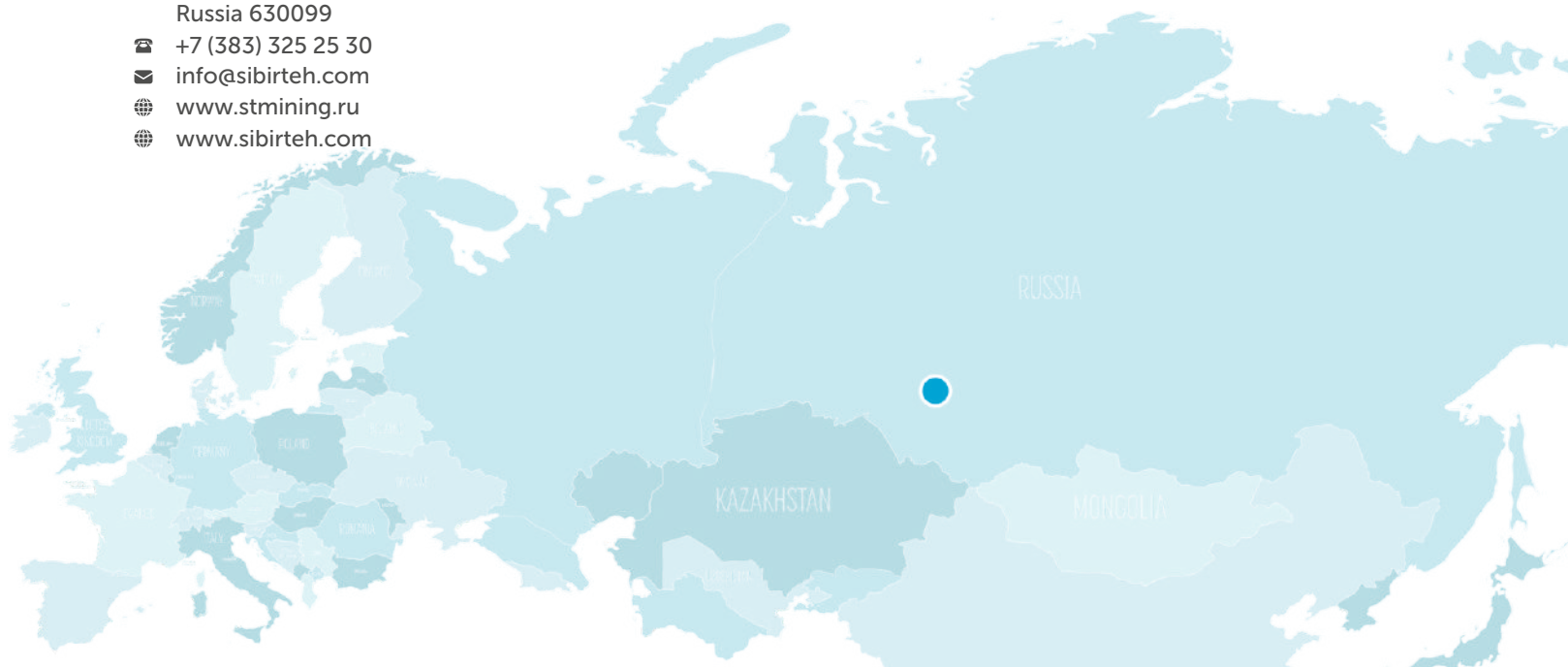


Hoses, fittings and equipment for the production of assembled high-pressure hoses

We successfully supply the equipment for many major industrial enterprises of the Russian Federation — Siberian Coal Energy Company LLC, JSC Alrosa OJSC, Holding Company Yakutugol OJSC, Sakhalinugol OJSC, Siberian Anthracite, Mechel PJSC, Russian Coal JSC, etc.

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Description

The current mining companies are focused on achieving their production goals efficiently and cost effectively. Moreover, the supporting companies, like us, are constantly looking for ways to help them achieve these lofty goals.

The equipment is of paramount importance. The ability of machines to operate in accordance with their specifications depends on three main factors: maintenance, design and application. Each of these three areas must be considered and effectively managed to optimize the equipment performance.

The module consists of the following:

- ✓ Office unit;
- ✓ Lubrication system;
- ✓ Stairs;
- ✓ Working floor on the platform;
- ✓ Laboratories for the oil analysis;
- ✓ Ladder for access from the platform to the dump truck.

Basic Module Arrangements



Option 1

- ✓ Platforms at various levels



Option 2

- ✓ Platforms on various levels
- ✓ Containers for the office and support services
- ✓ Integrated lubrication system



Option 3

- ✓ Platforms on one level
- ✓ Containers for the office and support services
- ✓ Integrated lubrication system



Ladder for access from the platform to the dump truck



Office unit



Working floor on the platform

> **MOD**

Mobile Oil Dispenser

- + High productive capacity
- + Individual assembly
- + Application in various climatic conditions



Description

«MOD» is a mobile oil–dispensing module for servicing mining equipment. It allows to replace, refill and collect waste process fluids, as well as to perform minor repairs of equipment using auxiliary devices. The «MOD» can be equipped with pneumatic and electric pumps. The «MOD» is insulated and equipped with heating elements, therefore it can be operated in the northern conditions.

Features



Can be designed for harsh climatic zones (from -40°C to +40°C)



Installation on any solid base, such as soil, crushed rock, reinforced concrete slabs, poured reinforced concrete, foundation blocks, etc.

Heating and Electrics

-  2 kW wall–mounted heat convectors are used to maintain the temperature and warm up the room. A thermal curtain is installed above the door. Infrared ceiling heaters can be installed additionally at the request of the customer
-  The key lighting of the container is a permanently installed lamp in a dust-/moisture–proof housing. LED floodlights are installed on the container roof.
-  The main electric switchboard is located inside the container on the wall in compliance with all safety standards and requirements.
-  External power supply to the mobile oil-dispensing container is performed from an 380 V, 50 Hz electric power box on the outside wall of the container.

What is the MOD for

It is intended for maintenance services dealing with the repair of quarry machinery. As a rule, such operations are performed in the field, so there is a significant loss of time. This highly efficient mobile manufacturing unit has all the necessary equipment for maintenance of a large machinery fleet. The place of installation depends on your needs, therefore the «MOD» can be installed directly at the repair site. The «MOD» can significantly reduce maintenance time that leads to reduction in equipment downtime.



Maximum efficiency of the equipment and machinery is achieved to the reduction in downtime related to the repairs or maintenance.



The equipment, components, storage conditions, dimensions are selected individually and depend on your aims.

Internal Finishing of the Container



The container is insulated from the inside with 50 mm polystyrene foam, the interior walls and ceilings are made of laminated, moisture–resistant plywood with a thickness of 12 mm.

The floor is made of laminated moisture–resistant plywood with a thickness of 18 mm. At the request of the customer, painted, corrugated steel sheet can be laid on the floor.



The front side of the container has an insulated hatch for the coils and door. Additionally, windows can be installed.

Fire Extinguishing System



Manual system — dry powder fire extinguishers with a charge mass of 5 kg



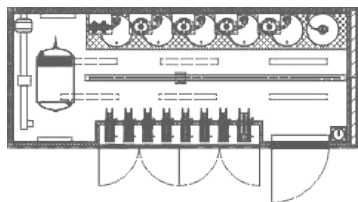
«Buran–2.5» or «Buran–8» automatic fire extinguishing system, depending on the size of the production compartment. An autonomous signaling and triggering device responds to thermal energy of fire by triggering when a certain temperature is reached, after which it triggers the fire extinguishing module.



To comply with the requirements and rules of SNiP (construction rules and regulations), the container is equipped with the suction and exhaust ventilation, as well as a grounding system along the entire inner perimeter.

Standard MOD Modifications

MOD-20PN



MOD-20PN includes all the most necessary equipment for the distribution of fuels and lubricants:

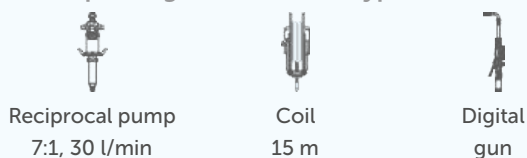
- 4 oil-dispensing stations
- 1 lubricant dispensing station
- 1 antifreeze solution dispensing station
- 1 air dispensing station

The liquids are recovered from the standard barrels in which the fuels and lubricants are supplied.

Insulation and equipment of the container is standard.

➔ For more details see page 6.

Dispensing Station for All Types of Oil

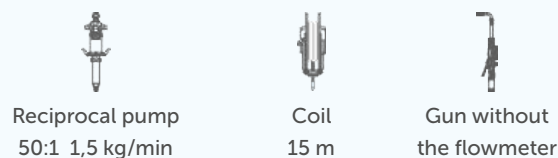


Reciprocal pump
7:1, 30 l/min

Coil
15 m

Digital
gun

Lubricant Dispensing Station

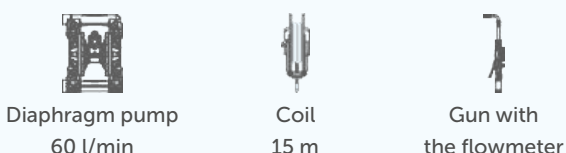


Reciprocal pump
50:1 1,5 kg/min

Coil
15 m

Gun without
the flowmeter

Antifreeze Solution Dispensing Station

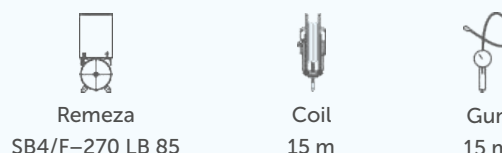


Diaphragm pump
60 l/min

Coil
15 m

Gun with
the flowmeter

Pump Feeding and Tire Inflation Station

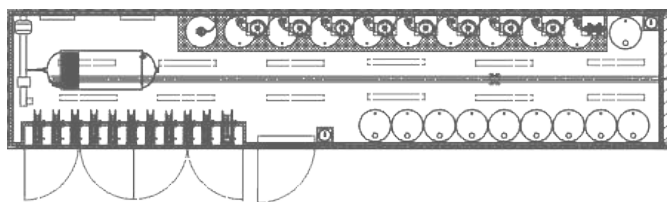


Remeza
SB4/F-270 LB 85

Coil
15 m

Gun
15 m

MOD-40PN



MOD-40PN includes all the most necessary equipment for the distribution of fuels and lubricants:

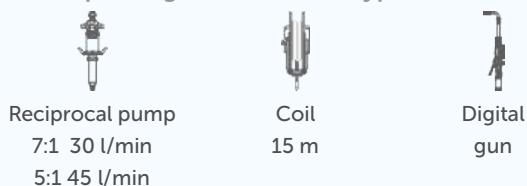
- 4 oil-dispensing stations
- 1 lubricant dispensing station
- 1 antifreeze solution dispensing station
- 1 air dispensing station

The liquids are recovered from the standard barrels in which the fuels and lubricants are supplied.

Insulation and equipment of the container is standard.

➔ For more details see page 6.

Dispensing Station for All Types of Oil



Reciprocal pump
7:1 30 l/min
5:1 45 l/min

Coil
15 m

Digital
gun

Lubricant Dispensing Station



Reciprocal pump
65:1 1,9 kg/min

Coil
15 m

Digital
gun

Antifreeze Solution Dispensing Station

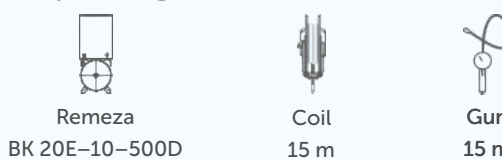


Diaphragm pump
60 l/min

Coil
15 m

Gun with
the flowmeter

Pump Feeding and Tire Inflation Station



Remeza
BK 20E-10-500D

Coil
15 m

Gun
15 m



Coils



Pump nozzles



«Buran» automatic fire extinguishing system



Supply ventilation



Thermal curtain



Wall-mounted heat convector



Liquid storage tanks



LED floodlight



> Data Input Form

Selection of the oil–dispensing equipment for MOD

Customer's data

Full name
Tel.
E-mail

1. Base

Container

20' DC ☐
6058 x 2438 x 2596
Up to 6 pumps

40' HC ☐
12192 x 2438 x 2896
Up to 10 pumps

2. Versionⁱ

Operating temperature

Wi0 ☐
No insulation
No finishing
-5 /+40 °C

★ **Wi5** ☐
Insulation
Finishing
-40 /+40 °C

Wi10 ☐
Insulation
Finishing
-50 /+40 °C

Finishing and insulation of the container ⁱ

The walls and ceilings are made of 12 mm laminated moisture resistant plywood.
The floor is made of black painted corrugated steel sheet.
Thermal insulation with the extruded polystyrene foam.

Options included in the price ⁱ

Heat convectors, thermal curtain. Forced plenum and exhaust ventilation. Fire extinguishers and automatic fire extinguishing system. Electrics, lighting, floodlights, sockets, switches. Container branding

3. Oil

All types of oil up to SAE 240

* Fluid consumption with flow rate with the SAE 30 oil at a temperature of 18°C



Model
Capacity* l/min
18 l/min, 5:1
30 l/min, 7:1
★ **45 l/min, 5:1**



Coil
15 m | 20 m
☐ ☐
☐ ☐
☐ ☐



Gunⁱ
Flowmeter | no
☐ ☐
☐ ☐
☐ ☐

Number of units



Gun with the digital counter ⁱ

The flowmeter unit is operated at the temperature of -10/+60 °C

4. Lubricant

All types of lubricants up to NLGI4

* Fluid consumption with flow rate with the self-levelling lubricant at a temperature of 20 °C



Model
Capacity*
1,5 kg/min, 50:1
★ **1,9 kg/min, 65:1**
3,0 kg/min, 70:1
ⁱ **4,4 kg/min, 75:1**
ⁱ **10 kg/min, 40:1**



Coil
15 m | 20 m
☐ ☐
☐ ☐
☐ ☐
☐ ☐



Gun
Flowmeter | no
☐ ☐
☐ ☐
☐ ☐
No gun
No gun

Boxⁱ
12 | 20 | 180

Number of units

☐ ☐ ☐
☐ ☐ ☐
☐ ☐ ☐
☐ ☐ ☐
☐ ☐ ☐
☐ ☐ ☐

Pumps with the capacity of above 4 kg/min ⁱ

Used primarily for pumping the consistent lubricant from one container to another.
For example, for filling the tanks of the centralized lubrication system.

Box dimensions ⁱ



Bucket 12–30 kg
Outer diameter
240–280 mm



Bucket 20–30 kg
Outer diameter
260–300 mm



Barrel 180–220 kg
Outer diameter
550–600 mm

→ Continued

5. Antifreeze solution

All types of antifreeze solutions, including water

* Fluid consumption with flow rate at a temperature of 20°C



Model
Capacity* l/min
★ 30 l/min, 1:1
60 l/min, 1:1



Coil
15 m | 20 m
☐ ☐
☐ ☐



Gun
Flowmeter | no
☐ ☐
☐ ☐

Number
of units

6. Waste

All types of liquids

* Fluid consumption with flow rate at a temperature of 20°C



Model
Capacity* l/min
170 l/min, 1:1



Coil
15 m | 20 m
☐ ☐

QRS
Quick release connector
☐

Valve
Four-way
☐

Number
of units

Tank

Discharge and waste

Tank 1000 l. ☐
Barrel 200 l. ☐



Quick release connector (QRC) ⁱ

It is used for quick evacuation of waste fluid. Instead of a drain plug, a nipple of the same standard size with a protective cap is installed for the entire fleet; and a coupling is installed at the end of the reel hose.



Four-way valve ⁱ

It is used to change the direction of the fluid flow, that is, it is possible first to pump out the waste liquid from the equipment into the storage tank, and then redirect the flow and pump it out of the storage tank using the same pump.

7. Air

Compressor unit for pump feeding and other operations

Model
Capacity, receiver
SB4/F-270 LB75 ☐
BK10E-10-270D ☐
BK20T-10-500D ☐



Coil
15 m | 20 m | 25 m
☐ ☐ ☐
☐ ☐ ☐
☐ ☐ ☐



Gun
Pressure gauge | blow gun
☐ ☐
☐ ☐
☐ ☐

Selection of the compressor ⁱ



SB4/F-270 LB75
Piston type
950 l/min
Receiver 270 l



BK10E-10-270D
Screw type
1000 l/min
Receiver 270 l



BK20E-10-500D
Screw type
1900 l/min
Receiver 500

▲ Not recommended for the 20' DC container

8. Options

Not included in the standard version

Heating rings for the barrels ☐
Two windows in the main section ☐
Overhead track crane with a catcher for the barrels ☐
Liquid flow metering system ☐
Utility module/master's room ☐

Download the data input form for completion in electronic form



→ www.stmining.ru/info/materials/...

The completed form shall be sent to the e-mail: info@sibirteh.com

> **DPAT**

Hydraulic Trolley Jacks

- + Cross-country wheels
- + Remote control
- + Adjustable folding handle

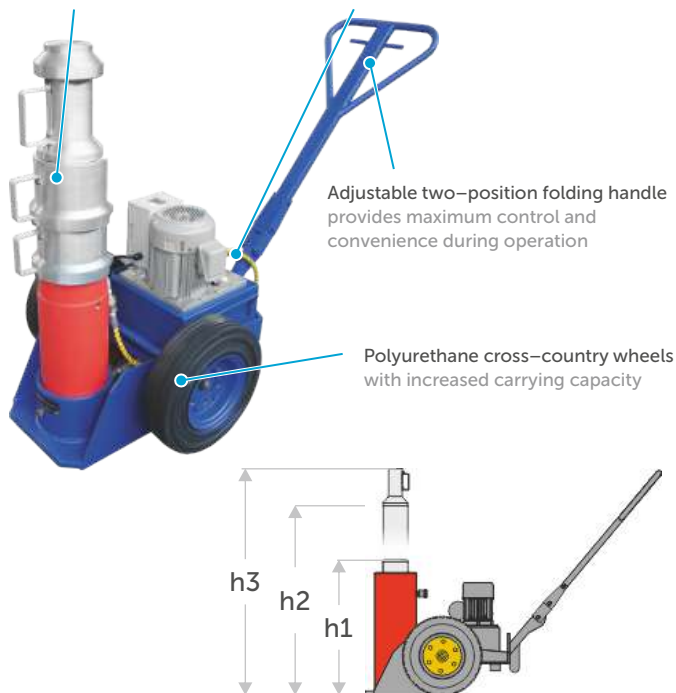


The extensions provide discrete required hoist height

Remote control for convenience and maximum protection of the operator

Adjustable two-position folding handle provides maximum control and convenience during operation

Polyurethane cross-country wheels with increased carrying capacity



Description

The «DPAT» hydraulic trolley jacks are the professional lifting equipment, main objective of which is to lift large-sized machinery and equipment. They are used for installation/dismantling of large-sized wheels on the machinery, for repair and maintenance works on the running gear of quarry machinery. The equipment is manufactured with a hydroelectric drive. Various options for stem extension cords allow to choose the best option for a specific type of works.

Extensions



Guard block system



Technical Specifications

Model	DPAT–50VP	DPAT–100VP	DPAT–150VP	DPAT–200VP
Carrying capacity, tf	50	100	150	200
Basic height, h1 mm	610	610	630	630
Max. height without extension h2, mm	910	910	930	930
Max. height with extension h3, mm	1160	1210	1230	1230
Rod stroke, mm	300	300	300	300
Additional extension, mm	150;200;250	150;200;300	150;200;300	150;200;300
Weight, kg	175	190	255	288
Power supply source (hydroelectric drive)	0,74kW / 380 V	1,5 kW / 380V	1,5 kW / 380V	1,5 kW / 380V
Control	Remote control with the spiral cable 6 m			
Protective cover of oil-pumping station	✓	✓	✓	✓
Cross-country wheels	✓	✓	✓	✓
Available options				
Extensions with other dimensions	✓	✓	✓	✓
Protective block with other dimensions	✓	✓	✓	✓
Hydraulic pneumatic actuator	✓	✓	✓	✓

Standard Scope of Supply



«DPAT–VP»
trolley jack



Extensions
with protective



Corrugated
support



Remote control with
the spiral cable

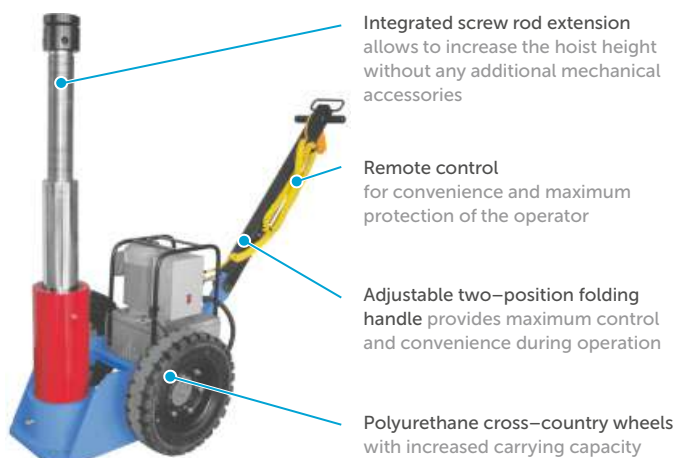
Documents



Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»

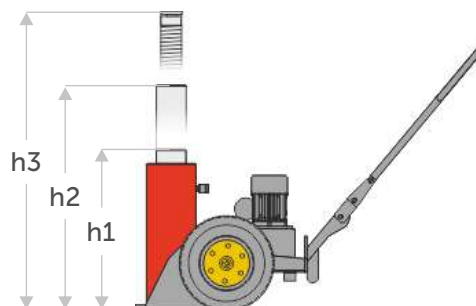


Mandatory equipment according to the Federal Law No.116–FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)



Features

- ✓ Tilt saddle to reduce radial load on the rod.
- ✓ Steel base of the jack provides strength and reliability of structure.
- ✓ Portability, high maneuverability and low weight allow the jacks to be used in the hard-to-reach places, while accurately positioning their lifting position.



Technical Specifications

Model	DPAT-70V	DPAT-100V	DPAT-150V	DPAT-200V
Carrying capacity, tf	70	100	150	200
Basic height, h1 mm	620	620	620	620
Max. height without extension h2, mm	940	940	940	940
Max. height with extension h3, mm	1215	1215	1215	1215
Rod stroke, mm	320	320	320	320
Screw extension stroke, mm	275	275	275	275
Weight, kg	185	195	255	295
Power supply source (hydroelectric drive)	0,74 kW / 380V	1,5 kW / 380V	1,5 kW / 380V	1,5 kW / 380V
Control	Remote control with the spiral cable 6 m			
Protective cover of oil-pumping station	✓	✓	✓	✓
Cross-country wheels	✓	✓	✓	✓
Tilt saddle	✓	✓	✓	✓
Available options				
Hydraulic pneumatic actuator	✓	✓	✓	✓

Standard Scope of Supply



«DPAT-V» trolley jack with screw extension



Remote control with the spiral cable

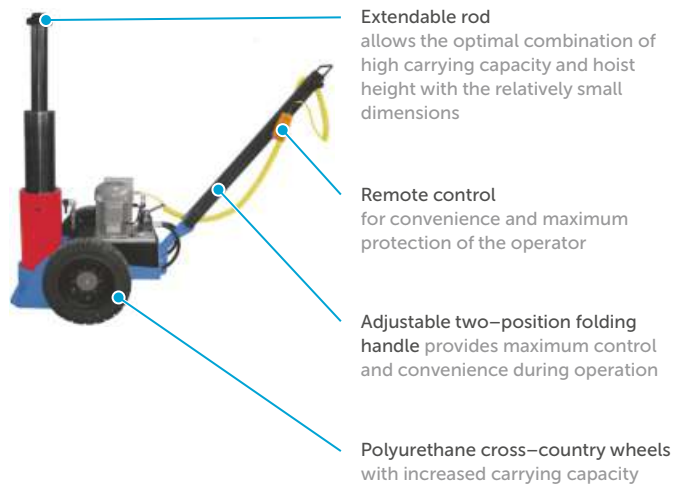
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Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»

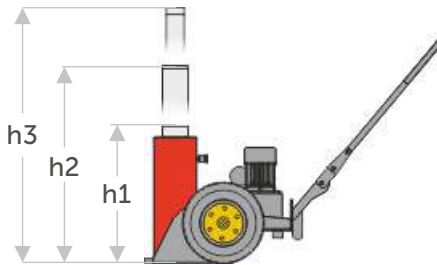


Mandatory equipment according to the Federal Law No.116-FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)



Features

- ✓ Tilt saddle to reduce radial load on the rod.
- ✓ Steel base of the jack provides strength and reliability of structure.
- ✓ Portability, high maneuverability and low weight allow the jacks to be used in the hard-to-reach places, while accurately positioning their lifting position.



Technical Specifications

Model	DPAT-100/50VT	DPAT-150/75VT	DPAT-200/100VT
Carrying capacity of 1/2 step, tf	100/50	150/75	200/100
Basic height, h1 mm	620	635	766
Max. height of 1 step h2, mm	955	960	960
Max. height of 2 step h3, mm	1300	1319	1655
Rod stroke of 1/2 step, mm	335/345	341/343	435/454
Weight, kg	255	255	255
Power supply source (hydroelectric drive)	1.5 kW / 380V	1.5 kW / 380V	1.5 kW / 380V
Control	Remote control with the spiral cable 6 m		
Protective cover of oil-pumping station	✓	✓	✓
Cross-country wheels	✓	✓	✓
Tilt saddle	✓	✓	✓

Standard Scope of Supply



«DPAT-VT» trolley jack with extendable rod



Remote control with the spiral cable

Documents



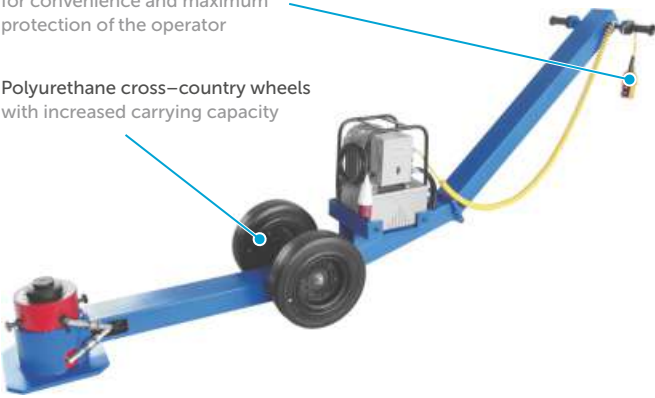
Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»



Mandatory equipment according to the Federal Law No.116-FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)

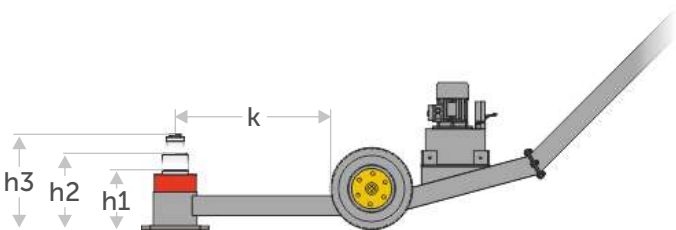
Remote control
for convenience and maximum
protection of the operator

Polyurethane cross-country wheels
with increased carrying capacity



Features

- ✓ Tilt saddle to reduce radial load on the rod.
- ✓ Steel base of the jack provides strength and reliability of structure.
- ✓ Portability, high maneuverability and low weight allow the jacks to be used in the hard-to-reach places, while accurately positioning their lifting position.



Technical Specifications

Model	DPAT–55/25VT mini	DPAT–100/50VT mini
Carrying capacity of 1/2 step, tf	55/25	100/50
Basic height h1, mm	270	320
Max. height without extension h2, mm	398	470
Max. height with extension h3, mm	510	615
Rod stroke, mm	128/112	150/145
Rod stroke of 1/2 step, mm	780	780
Jack depth k, mm	210	270
Power supply source (hydroelectric drive)	0,74 kW / 380 V	1,5 kW / 380 V
Weight, kg	210	270
Control	Remote control with the spiral cable 6 m	
Protective cover of oil-pumping station	✓	✓
Cross-country wheels	✓	✓
Tilt saddle	✓	✓
Available options		
Hydraulic pneumatic actuator	✓	✓

Standard Scope of Supply



«DPAT–VT» trolley jack mini
with extendable rod



Remote control with
the spiral cable

Documents



Certificate or declaration of the technical regulation of the
Customs Union «On safety of machinery and equipment»



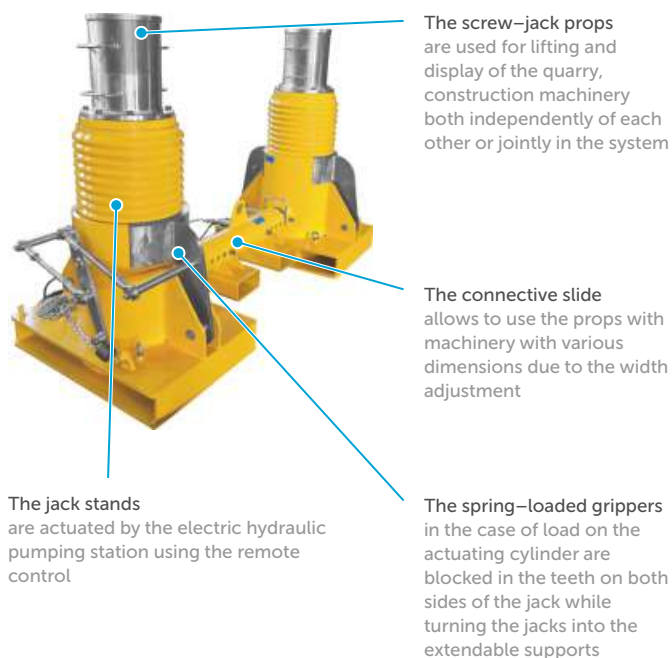
Mandatory equipment according to the Federal Law No.116–FZ
«On industrial safety of hazardous production facilities»
dated July 21, 1997 (as amended on March 04, 2013)

> **SPVS**

Lifting and Hanging System

- + Synchronous lifting
- + Mobility
- + Safety





Description

The «SPVS» lifting and hanging system is intended for mechanization of labor-intensive processes for mining dump truck hanging. It is a double jack that is moved using a forklift or transpalette.

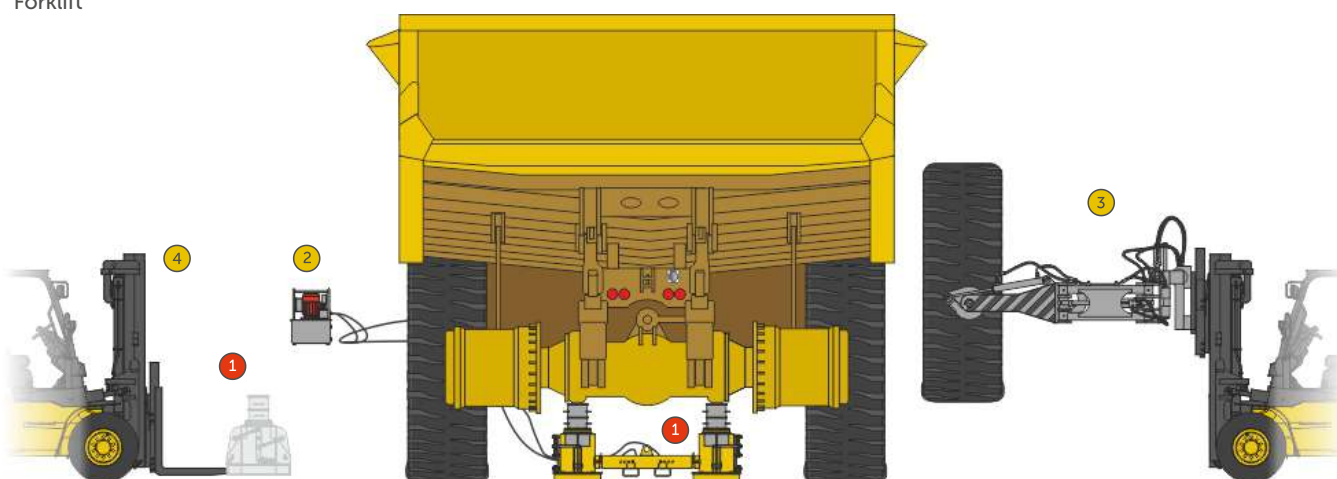
Features

- ✓ Fast and easy movement by forklift
- ✓ Quick installation of device
- ✓ Portability

Machinery to be Serviced

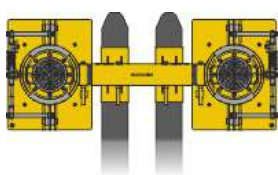


- 1 «SPVS» hanging system
- 2 Pumping station «PST3-M-380»
- 3 «KG3800» tire handler
- 4 Forklift

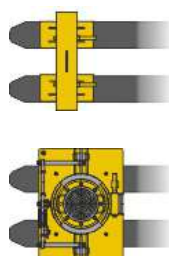


SPVS System Grappling Methods by the Forklift

In the assembled condition



In the disassembled condition



Recommended Additional Equipment



Pumping station «PST3-M-380».
→ For more details see page 108.

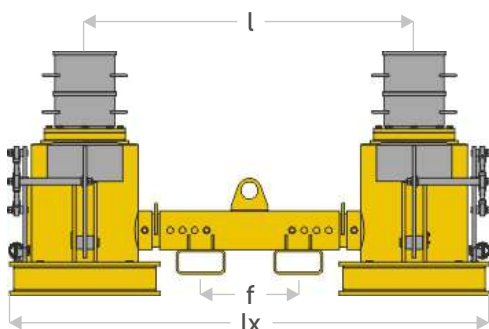


«KG3800» series tire handler is designed for safe dismantling, installation, loading and movement of large-scale wheels.
→ For more details see page 24–27.

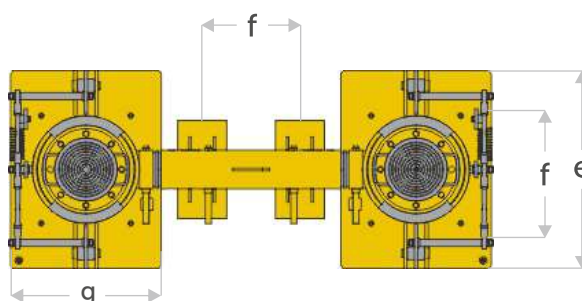


The forklift with a capacity of above 5 tons for the repair works on outsized equipment.

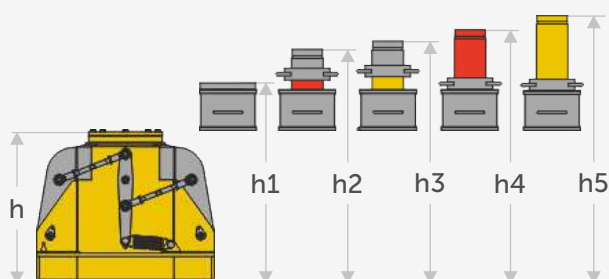
Side view



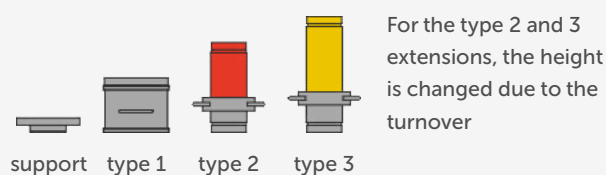
Top view



Elongators of Basic Height



Types of Extensions



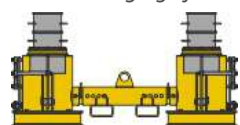
The extensions are ordered separately, for which the models of serviceable machinery are required

Technical Specifications

Model	SPVS-100	SPVS-200	SPVS-300
Carrying capacity, tf	2x50	2x100	2x150
Weight of one support/total, kg	300/850	450/1300	1000/2300
Dimensions for fork f, mm	500	500	500
Length of support e, mm	730	850	970
Width of support g, mm	480	650	740
Width of system lx, mm	1760	2100	2300
Center to center distance l, mm	1280-1550	1420-1780	1620-1980
Oil-pumping station (in the scope)	PST2 Manual 380 , 20л	PST3 Manual 380 , 40 л	PST3 Manual 380 , 40л
Rod stroke, mm	300	350	400
Basic height h, mm	500-800	650-1000	800-1200
Height with (type 1) extension h1, mm	747-1047	897-1247	1047-1447
Height with (type 2) extension h2, mm	842-1142	992-1342	1142-1542
Height with (type 3) extension h3, mm	912-1212	1062-1412	1212-1612
Height with (type 4) extension h4, mm	957-1257	1107-1457	1257-1657
Height with (type 5) extension h5, mm	1027-1327	1177-1527	1327-1727

Standard Scope of Supply

«SPVS» hanging system



«PST» oil-pumping station and a set of high-pressure hoses with QRC with the length of 10 m

→ For more details see page 108.



Documents



Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»



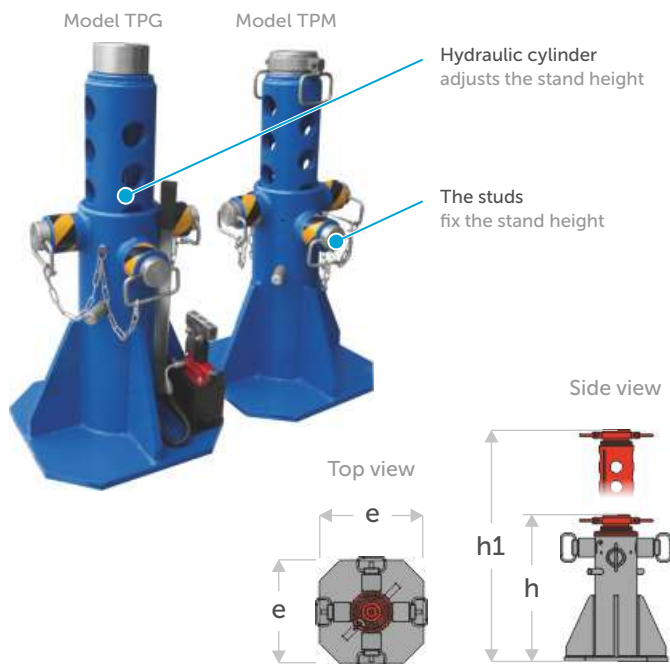
Mandatory equipment according to the Federal Law No.116-FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)

> **TPG/TPM/TMPV**

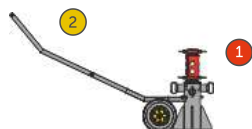
Adjustable Stands for Quarry Machinery Hanging

- + Simple construction
- + Reliability
- + Wide model range





- 1 «TPM/TPG» stand
- 2 Lifting tackle
- 3 «DPAT» series trolley jack



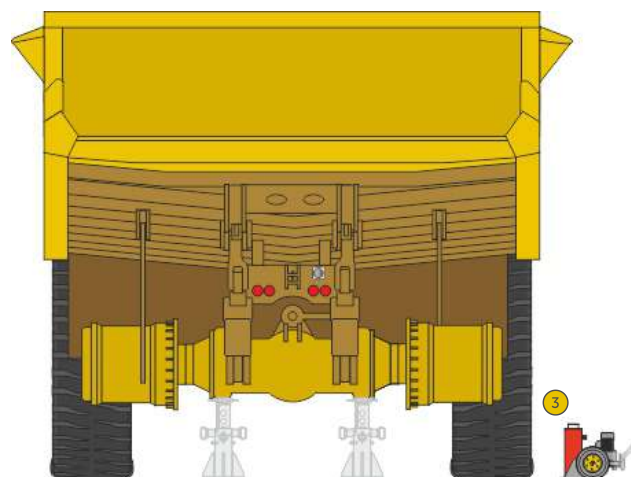
Description

«TPG/TMP» hydraulic and mechanical adjustable stands represent the safest way to keep the large-sized quarry equipment in a hanging condition during repair and maintenance of running gear. On the stands, the required working height is fixed by the studs.

Machinery to be Serviced



∞ all types of machinery

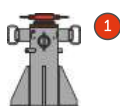


Technical Specifications

Model	Loading, t	Carrying capacity of the serviced machinery, t	Basic height h, mm	Maximum height h1, mm	Stand dimensions e, mm	Rod stroke, mm	Weight, kg
TPM-55	30	30-55	685	970	500	—	150
TPM-130	70	30-130	685	970	500	—	160
TPM-240	100	30-240	685	970	500	—	210
TPM-360	150	30-360	685	970	500	—	230
TPM-450	200	30-360	1090	1730	500	—	260
TPG-55	30	30-55	685	970	500	285	160
TPG-130	70	30-130	685	970	500	285	170
TPG-240	100	30-240	685	970	500	285	220
TPG-360	150	30-360	685	970	500	285	255
TPG-450	200	30-360	1090	1730	500	640	260

Standard Scope of Supply

«TPG» or «TPM» stand



→ For recommended additional equipment see the following page.

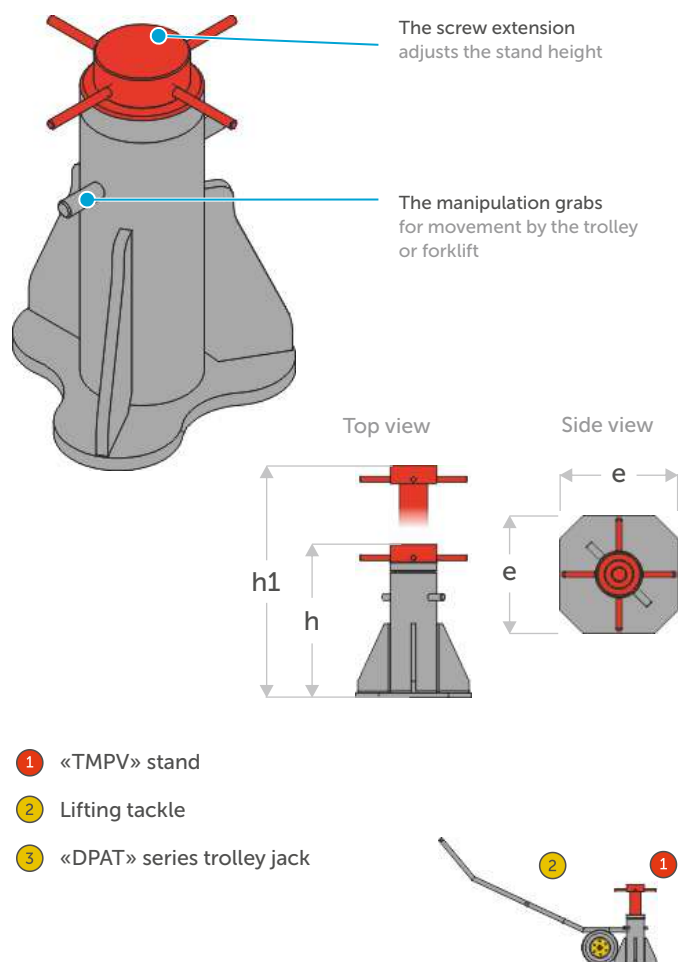
Documents



Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»



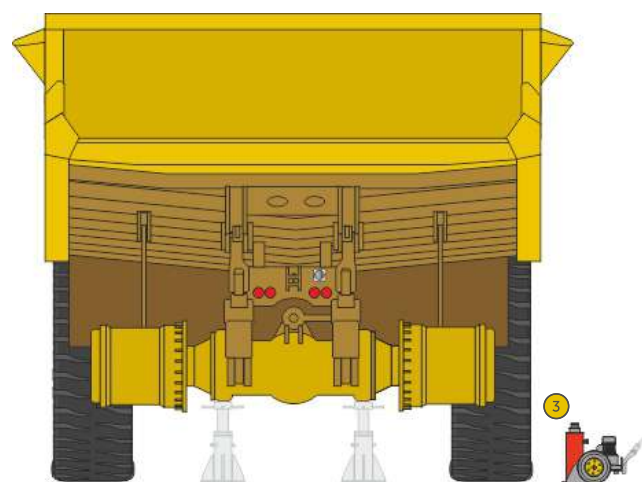
Mandatory equipment according to the Federal Law No.116-FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)



Description

«TMPV» mechanical adjustable stand represents the safest way to keep the large-sized quarry equipment in a hanging condition during repair and maintenance of running gear. The height is adjusted due to the screw extension integrated into the stand housing.

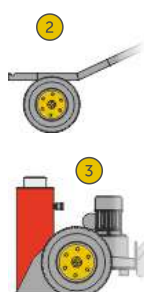
Machinery to be Serviced



Technical Specifications

Model	Loading, t	Carrying capacity of the serviced machinery, t	Basic height h, mm	Maximum height h1, mm	Stand dimensions e, mm	Rod stroke, mm	Weight, kg
TMPV-55	30	30-55	665	1005	500	340	150
TMPV-130	50	30-136	665	1005	500	340	160
TMPV-240	100	30-240	665	1005	500	340	210
TMPV-360	150	30-360	665	1005	500	340	230
TMPV-450	200	30-360	1090	1730	500	640	260

Recommended additional equipment



Lifting tackle «TTP-200».
Intended for transportation of stands to the place of repair and maintenance works.
Item №: TTP-200

«DPAT» series hydraulic trolley jacks are intended for lifting outsized machinery and equipment

→ For more details see pages 11-15.

Standard Scope of Supply

«TMPV» stand



Documents



Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»



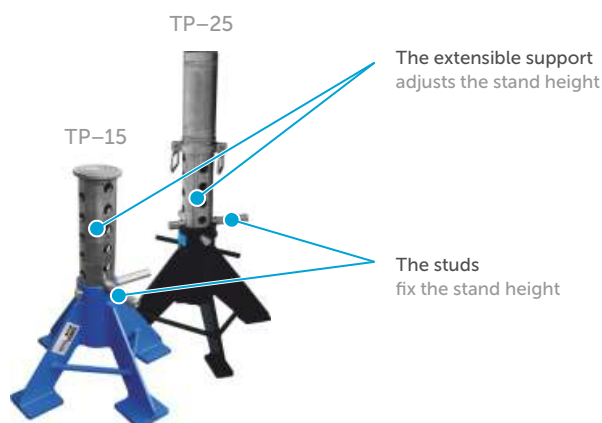
Mandatory equipment according to the Federal Law No.116-FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)

> TP

Mechanical Stands with Step-by-Step Adjustment

- + Ease of use
- + Safety
- + Portability





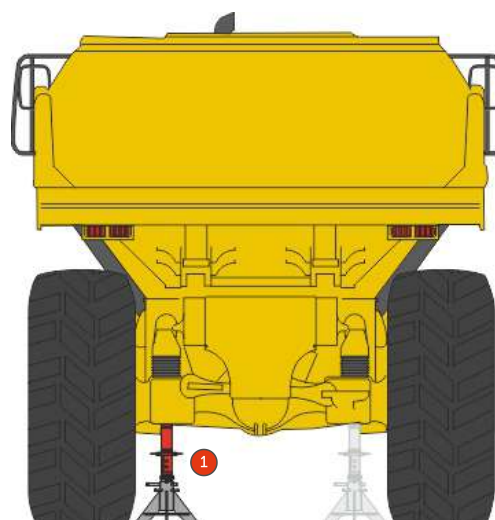
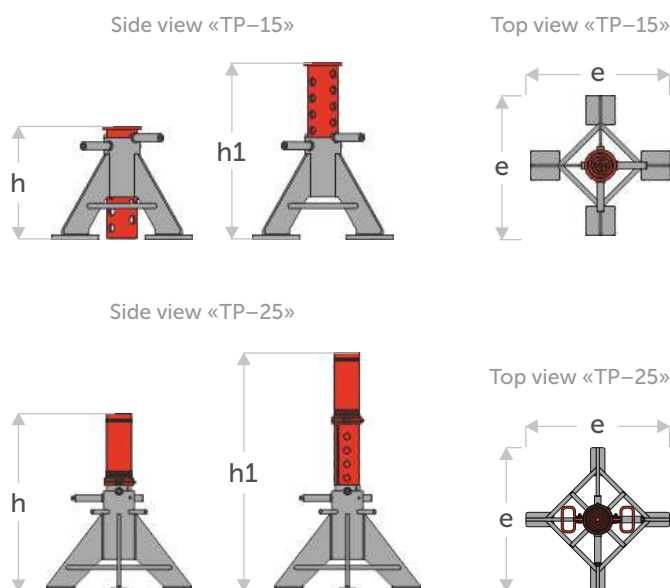
Description

«TP» mechanical adjustable stands represent the safest way to keep the large-sized quarry equipment with a total weight of not more than 30 tons in a hanging condition during repair and maintenance of running gear. On the stands, the required working height is fixed by the studs.

Machinery to be Serviced



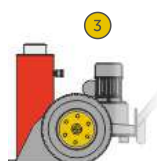
Equipment with a total weight up to 30 tons



Technical Specifications

Model	Loading, t	Basic height h, mm	Maximum height h1, mm	Stand dimensions e, mm	Rod stroke, mm	Weight, kg
TP-15	15	420	725	620	305	40
TP-25	25	800	1200	640	400	100

Recommended Additional Equipment



«DPAT» series hydraulic trolley jacks are intended for lifting outsized machinery and equipment

→ For more details see pages 11–15.

Documents



Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»



Mandatory equipment according to the Federal Law No.116–FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)

Standard Scope of Supply

«TP» stand

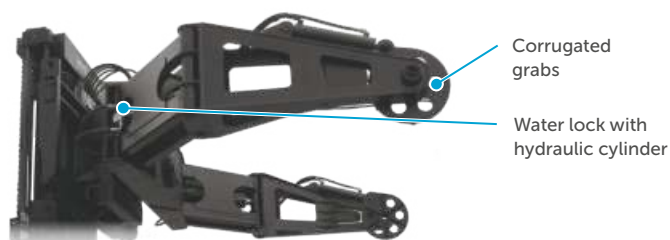


> **KG3800**

Tire Manipulator (Wheel Puller)

- + Efficiency
- + Wide model range
- + Safety





Corrugated grabs

Water lock with hydraulic cylinder

Front view



Side view



Description

«KG3800» series tire manipulator (wheel–puller) is an attachment installed on a wheel loader for the safest and most efficient performance of works on dismantling, installation, loading and movement of large wheels ranging in size from 18.00–25 to 59/80–63 from the quarry equipment.

Machinery to be Serviced



∞ all types of machinery

Features

✓ Safety

Reliable grip and precise hydraulic control ensure maximum safety when working with a tire manipulator in the repair room and open mining areas. The operator can perform the following activities: wheel clamping, transportation, turning the wheel from the vertical to horizontal position and vice versa, lateral wheel displacement and tilting. The hydraulic cylinders of grippers are equipped with water locks to prevent unclamping in the case of a loss of pressure to the system.

✓ High Quality

During manufacture of tire manipulators, only the high–quality components and materials are used: specialized steel of the leading European manufacturer Ruukki (FINLAND) and SSAB (Sweden); hydraulic cylinders made in South Korea; hydraulic line components (high–pressure hoses, pipe connections, distribution fittings) manufactured by Parker (Germany).

✓ Versatility

Attachments can be installed on the loading equipment made by almost all world manufacturers, suitable for the necessary technical requirements.

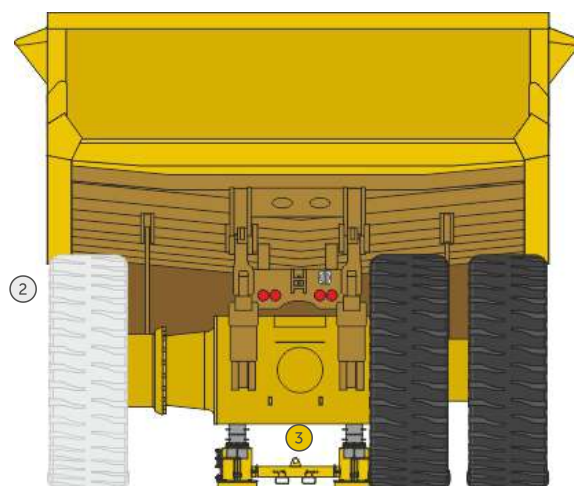
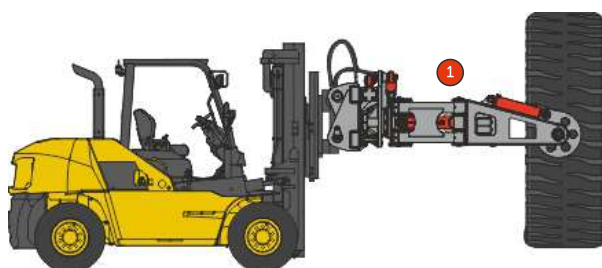
✓ High Performance

The tire manipulator design combines the superior performance, reliability, versatility and safety. The tire manipulator is capable of withstanding harshest operating conditions while demonstrating the excellent performance.

✓ Wide Model Range

The tire manipulators are presented in a wide basic model range with a lifting capacity from 2250 to 12000 kg and a gripper opening diameter from 700 to 4200 mm. By an additional order, it is possible to modify the tire manipulator according to the technical requirements of the customer.

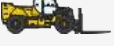
- ① «KG3800» tire manipulator
- ② Wheel to be dismantled
- ③ «SPVS» hanging system



Tire Manipulator Compatibility with the Loading Machinery

Due to design versatility, the tire manipulator can be installed on various loader models that are suitable in terms of technical parameters.

Required Carrying Capacity of the Loader

Loader type	KG3800–35	KG3800–51	KG3800–57	KG3800–63
	5 000 кг	12 000 кг	18 000 кг	25 000 кг
	11 000 кг ²	20 000 кг ²	28 000 кг ²	30 000 кг ²
	5 000 кг	12 000 кг	18 000 кг	25 000 кг

² Operating weight of the loader

Forklift



Front loader



Telescopic handler



Hyundai 160D–7E



Doosan D50SC–5



Magni 16.10



Komatsu FD160



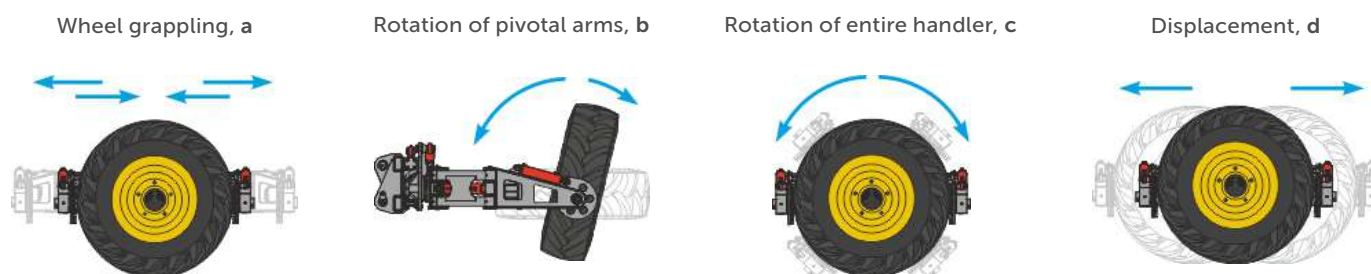
IMPORTANT INFORMATION

The loader hydraulic distribution valve must have at least one free section for connecting additional equipment. Two or more free sections make it possible to make the control process more convenient

Advantages of the Tire Manipulator

- ✓ Convenient for operation in the repair shop/box, at the shop platform. Due to small overall dimensions of the forklift, the tire manipulator has increased maneuverability and provides more accurate wheel positioning.
- ✓ Convenient for use on site with the uneven surface (soil, rock, stones).
- ✓ Due to capacity of the front loader, the tire manipulator has increased cross-country ability.
- ✓ The increased cross-country ability of chassis and relatively small overall dimensions make it possible to operate both in an open pit and in a repair shop. The telescopic boom outreach provides a more comfortable operator's work and a good view.

Main Functions

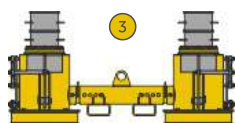


Technical Specifications

Model	KG3800–35	KG3800–51	KG3800–57	KG3800–63
Range of serviced tires, inch				
Short base (dump trucks)	18.00–25–24.00–35	18.00–25–36.00–51	18.00–25–50/90–57	18.00–25–59/80–63
Wide base (loaders)	23.5–25–37.25–35	23.5–25–37.5–51	23.5–25–50/80–57	23.5–25–70/70–57
Carrying capacity, kg	2250	5250	8250	12000
Minimum opening a, mm	700	860	800	700
Maximum opening a, mm	2400	3300	3800	4200
Displacement d, mm	+/- 130	+/- 150	+/- 150	+/- 150
Tilt of handler c, degrees	+/- 20	+/- 20	+/- 20	+/- 20
Wheel rotation b, degrees	96	92	96	96
Weight with transition slab, kg	1150	2900	3300	4100
Available options				
Wheel rotation b, degrees	360	360	360	360
Handler rotation c, degrees	360	360	360	360
Hydraulic supports	✓	✓	✓	✓

Recommended Additional Equipment

«SPVS» hanging system



→ For details see pages 16–18.

Standard Scope of Supply

Transition slab for your machinery



«KG 3800» tire manipulator



Additional Service



Installation of manipulator, specialist on–site visit.

Documents



Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»



Mandatory equipment according to the Federal Law No.116–FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)



Federal Intellectual Property Service, utility patents:
Patent № RU 143 919
Patent № RU 189 710

> **Cormach/SHM** **Truck Tire Changer**

- + Remote control
- + Wide model range
- + High performance



Description

«Cormach» truck tire changers is a professional tire fitting equipment designed for tire mounting/dismounting of trucks, agricultural, road and industrial equipment with a rim diameter from 14 to 56 inches.

It is suitable for use at the mining enterprises using both the trucks and large-sized mine dump trucks with a carrying capacity of 30 to 55 tons.

The truck tire changers are equipped with a remote control panel that allows for the safest and most efficient tire changing.

Features

- ✓ The changers are equipped with self-centering four-jaw clamp, operating in the two-speed mode, in two rotational directions and making it possible to mount the wheels up to 56 inches. The jaws are equipped with the movable toothed sectors that make it possible to clamp any type of rims.
- ✓ The hydraulic distributor is equipped with a valve that regulates the self-centering clamp working force while making it possible to work safely with the most «sensitive» rims.
- ✓ Operating lever is equipped with a system that allows a quick change of working operations (assembly/disassembly).

CMS-27



FT-26S



SV – 2450N



FT-560S



Machinery to be Serviced



All types of trucks with the diameter at rim seat of up to 56*

CMS-56N



FT-1456A



Technical Specifications

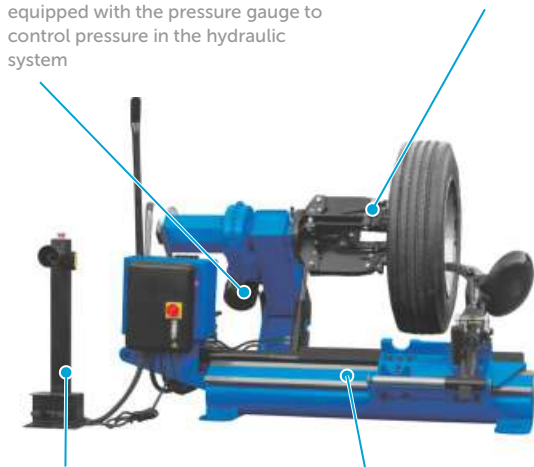
Model	SV-2450N	CMS-56N	FT-560S	FT-1456A	FT-26S	CMS-27
Wheel diameter, inch	14–56	14–46 (56*)	14–46 (56*)	14–44 (56*)	14–26	13–27
Maximum wheel diameter, mm	2450	2300	2300	2400	1500	1600
Maximum wheel width, mm	1220	1100	1065	1300	1000	780
Maximum wheel weight, kg	1700	1200	1200	1800	700	700
Maximum thrust force, kg	3000	2700	2700	3500	1500	1865
Power supply, V	230/400	230/400	230/400	400	230/400	230/400
Capacity of the reductor motor, kW	1,3–1,8	1,3–1,8	1,3–1,8	2,6–3,2	1,8	1,3–1,8
Capacity of the oil-pumping station, kW	1,3–1,8	1,1	1,1	2,2	1,1	1,1
Operating pressure, bar	0–130	0–130	0–130	0–130	0–130	0–130
Overall dimensions (l x b x h), mm	2731 x 1950 x 2260	2480 x 1780 x 2100	1810 x 2390 x 2450	1600 x 1900 x 2500	1270 x 1520 x 2300	1270 x 1740 x 1750
Weight, kg	1200	740	728	1025	586	560

* Up to 56 at the request

→ For documents see the following page.

Electrohydraulic actuator provides the stepless smooth speed adjustment of lifting and lowering of the spindle arm. The actuator is equipped with the pressure gauge to control pressure in the hydraulic system

The mounting clip for the procedure of lifting, gripping and installation of the tire on the rim



Remote control is performed by the operator from any convenient place using the toggle switch, joystick and pedals

Bridge for convenient movement of the wheel to the clamping device



Description

«SHM» truck tire changer is a professional tire fitting equipment designed for dismantling and mounting tires of trucks, agricultural, road and industrial equipment with rim diameters from 14 to 56 inches. Suitable for use in mining enterprises using both trucks and large-sized dump trucks with a carrying capacity of 30 to 55 tons. The truck tire changers are equipped with a remote control panel that allows for the safest and most efficient tire changing.

Machinery to be Serviced



∞ All types of trucks with the diameter at rim seat of up to 56*

SHM-2



Technical Specifications

Model	SHM-1	SHM-2
Wheel diameter, inch	14–26	14–56
Maximum wheel diameter, mm	1600	2300
Maximum wheel width, mm	780	1065
Maximum thrust force, kg	76,5	35
Maximum wheel weight, kg	500	1600
Capacity of the oil-pumping station electric motor, kW	1.5	2.2
Capacity of the reductor motor, kW	1.8	2.2
Power supply, V	380	380
Overall dimensions (l x b x h), mm	2020 x 820 x 1590	2300 x 1040 x 1950
Weight of the machine, kg	500	1600

Documents



Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»



«Siberian Technologies» LLC is an official distributor of Cormach company in the CIS territory.



Mandatory equipment according to the Federal Law No.116-FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)



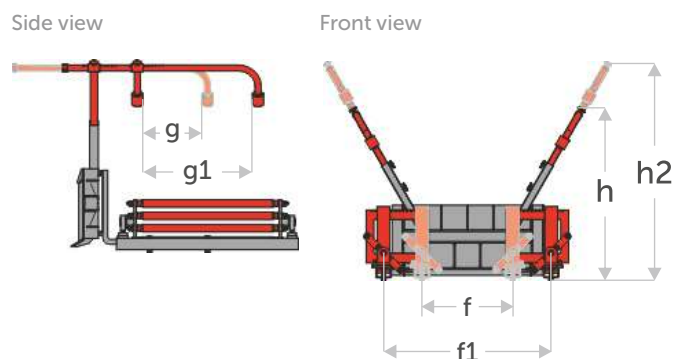
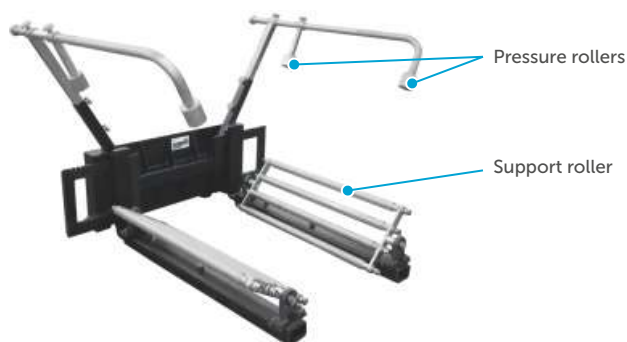
Made in Italy (Cormach) and China (SHM)

> **SHD**

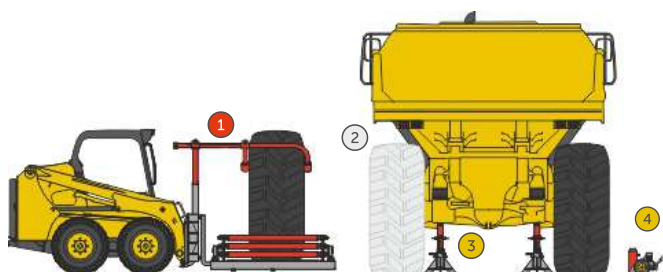
Tire Holder

- + Ease of use
- + No need in intervention into the loader's hydraulic system
- + Installation on the loader with the carrying capacity of above 1.5 tons

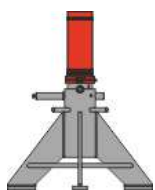




- 1 «SHD» device
- 2 Wheel to be dismantled
- 3 «TP» stands
- 4 «DPAT» roller jack

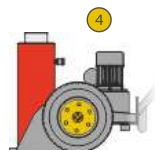


Recommended Additional Equipment



«TP» series adjustable stands are the safest way to keep the large-sized quarry equipment with a total weight of not more than 30 tons in a hanging condition during repair and maintenance of the running gear.

→ For more details see pages 22–23.



«DPAT» series hydraulic trolley jacks are intended for lifting oversized machinery and equipment

→ For more details see pages 11–15.

Description

Designed for dismantling, installation, transportation of assembled wheels in the range of up to 25 inches. Due to design simplicity, the tire holder is easy to operate.

The wheel is fixed due to the pressure and support rollers, and the structure on which the wheel stands is fixed due to clamping screws.

Machinery to be Serviced



All types of trucks with the diameter at rim seat of up to 25"

Installation on other Types of Machinery



Mini-loader
✓ Included



Forklift
at request



Frontal loader
✗ Impossible



Telescopic handler
✗ Impossible

Technical Specifications

Model	SHD-800
Carrying capacity, kg	800
Maximum wheel width, mm	900
Maximum wheel diameter, mm	1800
Minimum wheel diameter, mm	1600
Wheel rotation	manual
Wheel lifting method	by the loader
Lifting surface	2 x 4 rollers
Dimensions (l x b x h), mm	1631 x 1820 x 1337
Weight, kg	419
Adjustment range	
Width of grips g, mm	583
Width of grips g1, mm	808
Adjustment of support rollers f, mm	750
Adjustment of support rollers f1, mm	1470
Height of grip h, mm	1200
Height of grip h1, mm	1337

Documents



Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»

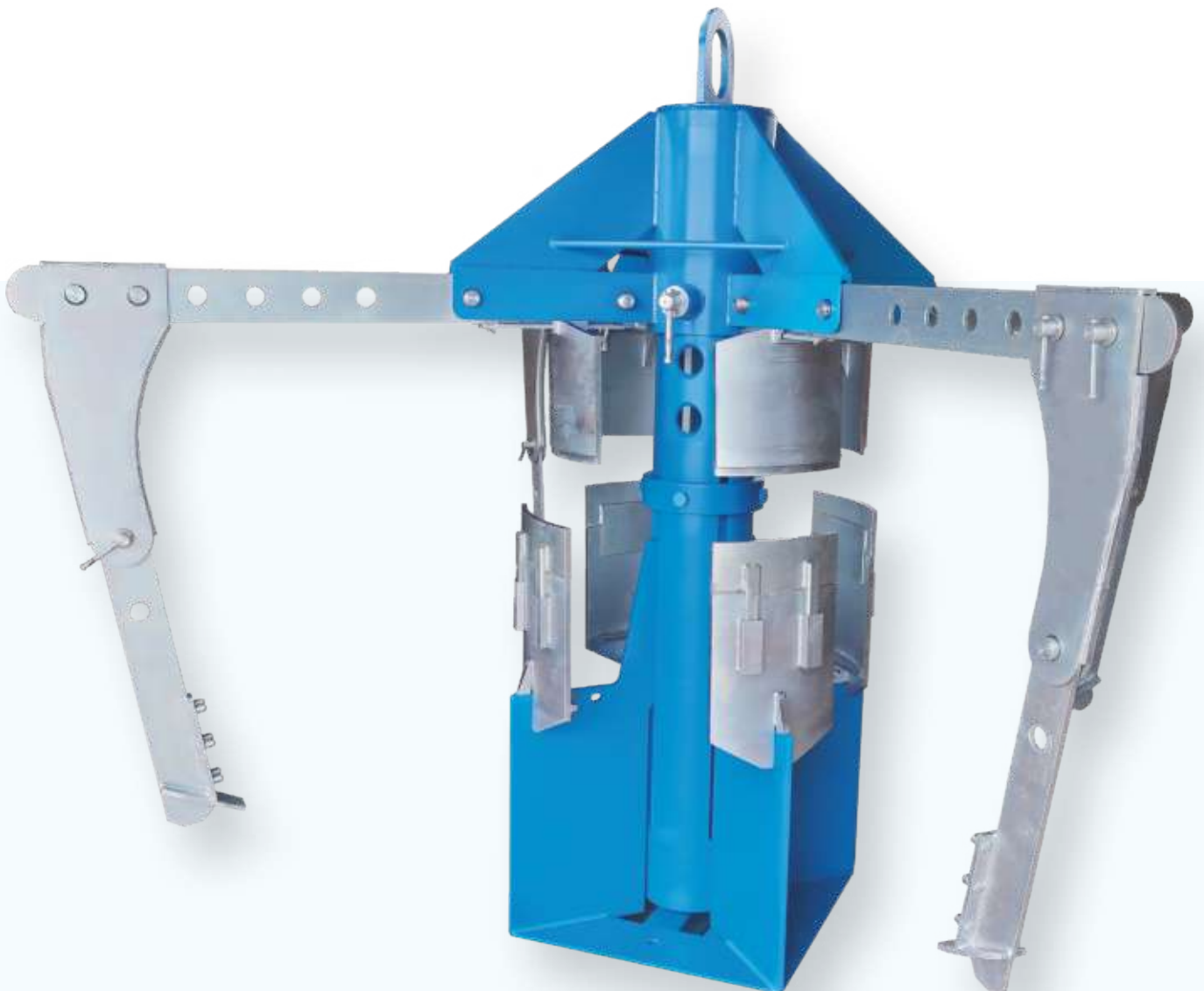


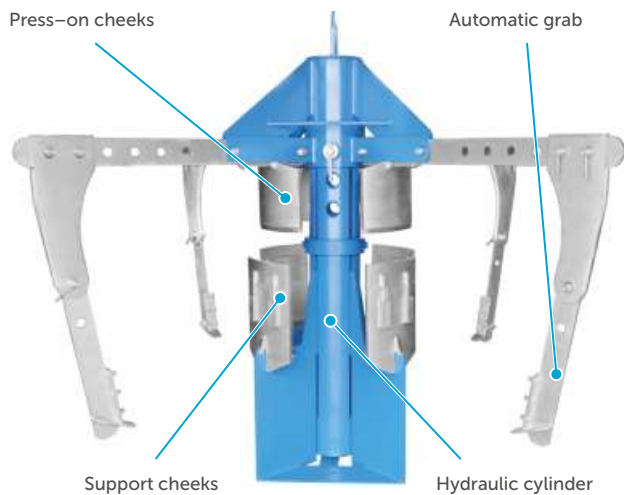
Mandatory equipment according to the Federal Law No.116-FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)

> **SHM**

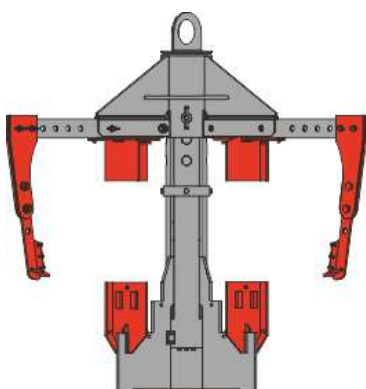
Mobile Tire Changer

- + Heavy-duty hydraulic cylinder
- + Compact overall dimensions
- + Versatility





Side view



Top view



Description

«SHM» series mobile tire changer is a professional tire fitting equipment that allows to effectively service all sizes of large wheels in the range from 18.00–25 to 59/80–63 inches.

Due to design versatility, the machine is suitable for working with both three-/five-piece rims of mine dump trucks and loaders with a carrying capacity of 30 to 360 tons, depending on the model.

Low weight and small dimensions of the machine make it possible to use it at the unprepared service areas for repair and maintenance of mining equipment.

Machinery to be Serviced



∞ All types of quarry machinery

Features

✓ Versatility

The tire changer services all sizes of large tires (in the range from 18.00–25 to 59/80–63 inches (depending on the machine model). The machine changeover according to the tire dimensions is performed within a few minutes manually.

✓ Mobility

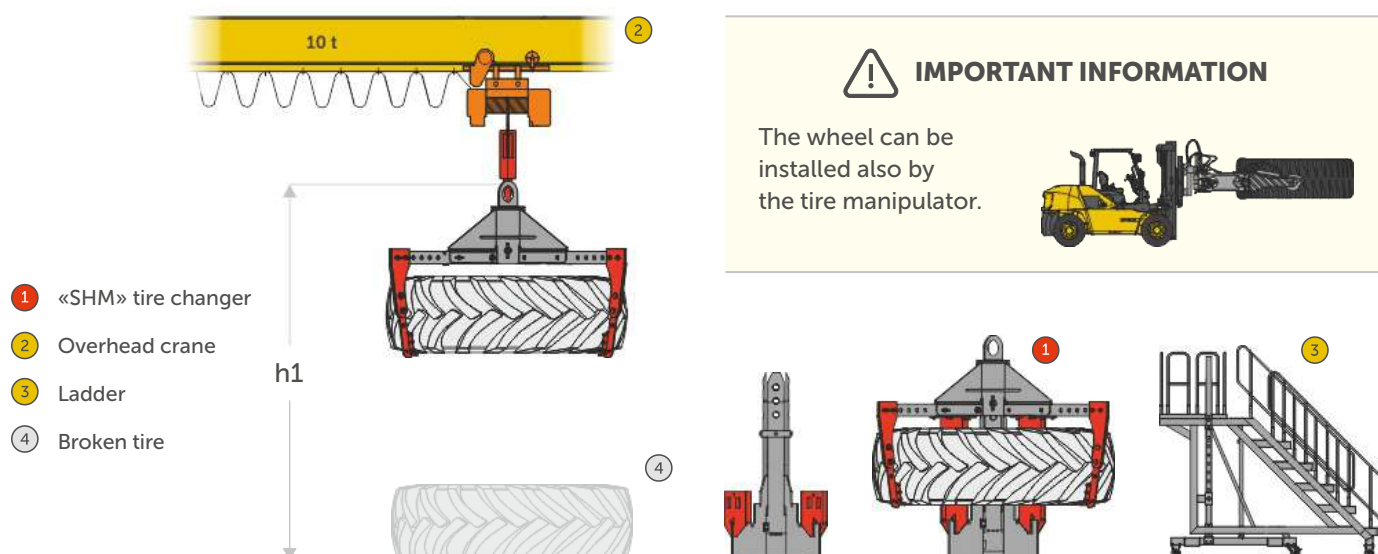
The compact dimensions and weight of tire changer make it possible to move the machine within the service area without any problems. Its installation does not require special preparatory works and capital expenditures, it is enough to place it at any site convenient for operation. The flat area with a hard surface, a lifting mechanism and a power supply are required for the works.

✓ High Performance

The powerful hydraulic cylinder ensures a reliable dismantling process for quarry tires. The thrust force from 70 to 200 tons (depending on the machine model) allows for guaranteed dismantling of tires operating in the most severe climatic conditions (from -25 to +40), with the stuck and rusted rims. The tire change operation at the example of 33.00–51 tire is performed on average from 30 to 60 minutes by one operator.

✓ Sensitive Attitude to the Tires and Rims

Due to design features of the machine, assembly/disassembly of the wheel is performed carefully in relation to the tires, rims, lock and bead rings, thereby prolonging their service life.

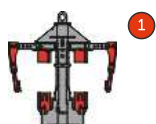


Technical specifications

Model	SHM-70	SHM-70+	SHM-100	SHM-150	SHM-200
Thrust force, tf	70	70	100	150	200
Operating pressure, bar	700	700	700	700	700
Cylinder stroke, mm	300	500	300	500	500
Dimensions (l x b x h), mm	3315 x 3315 x 2720	3500 x 3500 x 3000	3974 x 3974 x 2995	4634 x 4634 x 3773	5368 x 5368 x 4475
Crane height h1, mm	5000	5300	5300	6000	7000
Oil-pumping station	PST2 Manual 380 20	PST2 Manual 380 40	PST3 Manual 380 40	PST3 Manual 380 40	PST3 Manual 380 40
Weight, kg	1380	1500	2000	2700	4200
Range of serviceable tires, inch					
Short base (dump trucks)	18.00–25 –24.00–35	18.00–25 –27.00–49	18.00–25 –36.00–51	24.00–35 –50/90–57	24.00–49 –59/80–63
Wide base (loaders)	23.5–25 –37.25–35	26.5–25 –45/65–45	23.5–25 –37.5–51	35/65–33 –50/80–57	37.25–35 –70/70–57

Standard Scope of Supply

«SHM» tire changer



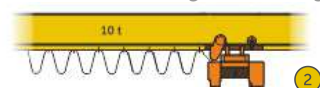
«PST» oil-pumping station and a set of high-pressure hoses with QRC with the length of 10 m

→ For more details see page 108.



Recommended additional equipment

Overhead crane. Intended for movement of the large-sized cargo.



Ladder. Intended for safe ascent and setting of the upper machine cheeks.



Documents



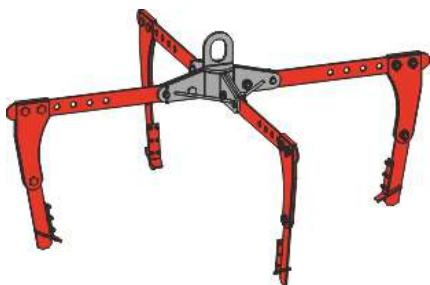
Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»



Mandatory equipment according to the Federal Law No.116-FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)



Federal Intellectual Property Service, utility patents: Patent № RU 151 177



Front view



Top view



Description

The automatic grab is designed to move wheels/tires of large-sized machinery using lifting equipment on the territory of the repair shop.

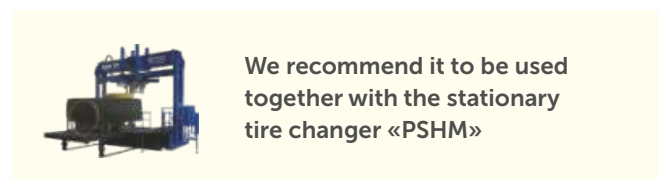
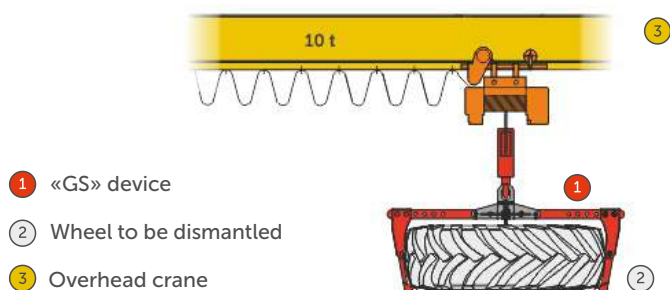
It is used for mounting wheels/tires on a vertical tire changer, storage and unloading/loading.

Range of Serviceable Tires

	GS-35	GS-51	GS-63
	18.00–25 ↓ 24.00–35	18.00–25 ↓ 36.00–51	24.00–49 ↓ 59/80–63
	23.5–25 ↓ 37.25–35	23.5–25 ↓ 37.5–51	37.25–35 ↓ 70/70–57

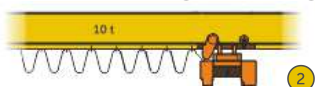
Technical Specifications

Model	GS-35	GS-51	GS-63
Carrying capacity, kg	1500	3500	8000
Dimensions (l x b x h), mm	3240 x 3240 x 1480	4000 x 4000 x 1650	4650 x 4650 x 1800
Weight, kg	300	500	800
Range of serviceable tires, inch			
Short base (dump trucks)	18.00–25–24.00–35	18.00–25–36.00–51	24.00–49–59/80–63
Wide base (loaders)	23.5–25–37.25–35	23.5–25–37.5–51	37.25–35–70/70–57



Recommended additional equipment

Overhead crane. Intended for movement of the large-sized cargo.



Standard blcope of Supply



«GS» automatic grab

Documents



Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»



Mandatory equipment according to the Federal Law No.116-FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)

> **PSHM**

Stationary Tire Changer

- + High performance
- + Versatility
- + Solicitous attitude to the tires and rims

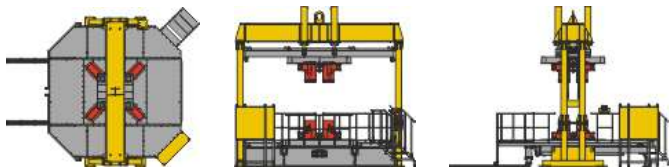




Top view

Front view

Side view



Description

«PSHM» series stationary tire changer is the safest and fastest way to dismantle and mount tires of the large-sized quarry equipment. Use of this tire changing equipment allows to effectively service the wheels in the range from 18.00–25 to 59/80–63 inches. Due to design versatility, the machine is suitable for working with three-/five-piece rims of mine dump trucks and loaders with a carrying capacity of 30 to 360 tons.

Machinery to be Serviced



∞ All types of quarry machinery

Features



High Performance

The heavy-duty hydraulic cylinders ensure reliable dismantling process for the quarry tires. The thrust force allows for guaranteed dismantling of tires operating in the most severe climatic conditions (from -25 to +40), with the stuck and rusted rims.



Solicitous Attitude to the Tires and Rims

Due to design features of the machine, risk of damage during assembly/disassembly of the tire and rim is minimized, thereby prolonging their service life.



Safety

Due to automation of processes during the wheel assembly/disassembly, possibility of hard, manual work and the risk of occupational injuries are prevented.



Versatility

The tire changer allows servicing all sizes of large tires made by the leading world manufacturers, such as Belshina, Goodyear, Michelin, in the range from 18.00–25 to 59/80–63 inches. The machinery readjustment according to the tire size is performed remotely by operator from the control panel.



Reliability

Design of the tire changer combines reliability, excellent performance, safety and does not require the comprehensive periodic maintenance.



Hammer-Head Crane (Optional)

Additional equipment with a hammer-head crane is possible thereby allowing to move the wheel elements (tires, rims, lock rings and rim strips) to the tire changer. The standard lifting capacity is from 2 to 10 tons.



Completeness of Sets

Standard tire changer is equipped with all the necessary tools and accessories in order to immediately commence assembling/disassembling the large-sized wheels.



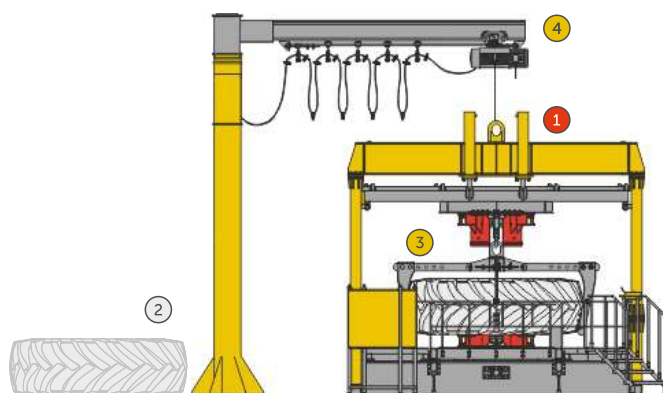
Lighting (Optional)

To ensure comfortable work in the dark, the changer can be equipped with an additional lighting system.



Remote radio control (Optional)

The tire changer can be operated either manually or with a radio remote control. Due to remote control, when assembling/disassembling the large-sized tires, the operator can walk around the machine and adjust works during assembly/disassembly of the tire.



The scope of delivery includes additional support and press-on cheeks



Press-on cheeks



Support cheeks

- 1 «PSHM» Stationary tire changer 3 Grab
 2 Broken tire 4 Hammer-head crane

Technical Specifications

Model	PSHM-200	PSHM-300	PSHM-400
Machine version	Fixed	Fixed	Fixed
Thrust force, tf	200	300	400
Operating pressure, bar	250	250	250
Power supply, V	380	380	380
Dimensions (l x b x h), mm	5400 x 5000 x 5100	5600 x 5000 x 5250	6000 x 5500 x 5900
Weight, kg	15000	16500	19000
Range of serviceable tires, inch			
Short base (dump trucks)	18.00–25–36.00–51	24.00–35–40.00–57	24.00–35–59/80–R63
Wide base (loaders)	23.5–25–37.5–51	37.25–35–50/80–57	37.25–35–70/70–57

Standard Scope of Supply



«PSHM» Stationary tire changer



Grab. Intended for grappling of the large-sized cargo.
Item No.GS



Hammer-head crane.
Intended for movement of the large-sized cargo.

Documents



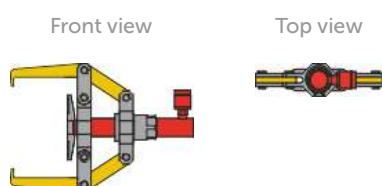
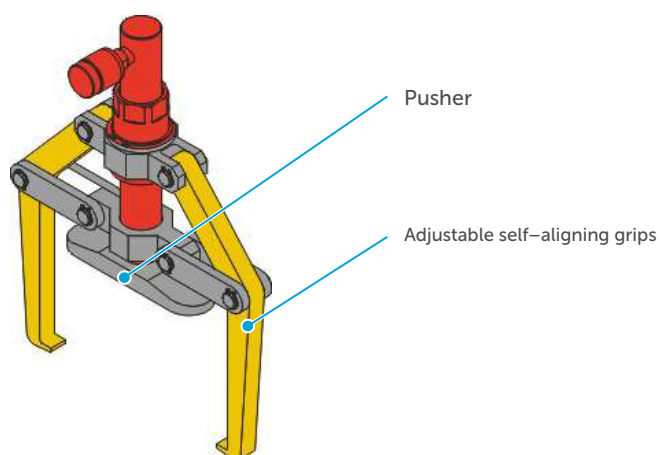
Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»



Mandatory equipment according to the Federal Law No.116–FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)



OTR tire dimensions	Tire width, inch	Weight (tire and rim), kg	SHM-70	SHM-70+	SHM-100	SHM-150	SHM-200	PSHM-200	PSHM-300	PSHM-400
Short wheelbase										
18.00-25	66	500	•	•	•			•		
18.00-33	74	740	•	•	•			•		
21.00-35	82	930	•	•	•			•		
24.00-35	87	1090	•	•	•	•		•	•	•
24.00-49	101	1540		•	•	•	•	•	•	•
27.00-49	107	2000		•	•	•	•	•	•	•
30.00-51	115	2670			•	•	•	•	•	•
33.00-51	122	3000			•	•	•	•	•	•
36.00-51	129	3760			•	•	•	•	•	•
37.00 R57	136	4530				•	•		•	•
40.00 R57	143	5210				•	•		•	•
48/95 R57	151	5620				•	•		•	•
50/90 R57	151	5760				•	•		•	•
53/80 R63	149	6350					•			•
55/80 R63	153	7090					•			•
59/80 R63	154	7130					•			•
Long wheelbase										
23.5-25	66	680	•		•			•		
26.5-25	71	900	•	•	•			•		
29.5-29	75	1130	•	•	•			•		
33.25-29	83	1180	•	•	•			•		
35/65-33	81	1310	•	•	•	•		•		
33.25-35	91	1540	•	•	•	•	•	•	•	•
37.25-35	95	1810	•	•	•	•	•	•	•	•
40/65-39	94	1900		•	•	•	•	•	•	•
37.5-39	100	1950		•	•	•	•	•	•	•
45/65-45	108	2850		•	•	•	•	•	•	•
37.5/51	113	2000			•	•	•		•	•
50/65-51	121	3620				•	•		•	•
67.5/65-51	138	5890				•	•		•	•
50/80-57	144	4990				•	•		•	•
55.5/80-57	147	5890					•		•	•
49.5/85-57	154	5850					•		•	•
55/85 R57	147	5850					•		•	•
53.5/85-57	154	6160					•		•	•
58/85-57	155	5890					•		•	•
70/70-57	160	6980					•			•



Description

The device is designed to dismantle wheel wedges of BelAZ mine dump truck.

The required traction power is generated by an integrated hydraulic cylinder that is driven by a manual hydraulic pump.

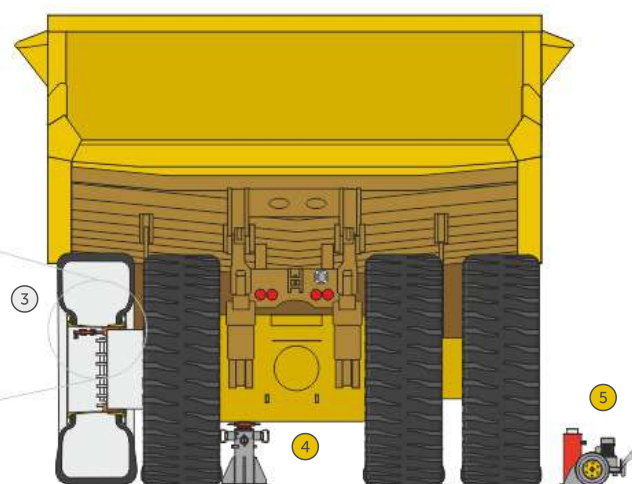
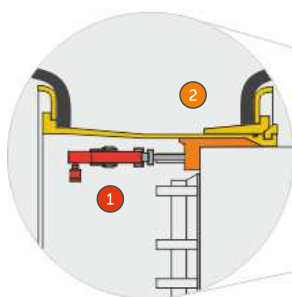
Technical Specifications

Model	SK-90	SK-130	SK-220
Strain, tf	5	5	5
Operating pressure, atm	700	700	700
Weight, kg	10	10	10
Carrying capacity of the serviceable machinery, t	90	130	220
Rod stroke, mm	150	150	150

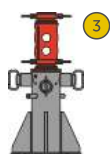
Machinery to be Serviced



- 1 «SK»Wedge puller
- 2 Wheel fixing clamps
- 3 Wheel
- 4 «TPG/TPM/TMPV» stand
- 5 «DPAT» roller jack

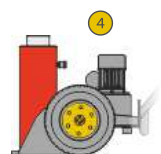


Recommended Additional Equipment



«TPG/TPM/TMPV» series adjustable stands are designed for keeping the large-sized quarry machinery in a hanging condition during repair and maintenance of running gear.

→ For more details see pages 19–21.

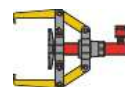


«DPAT» series hydraulic trolley jacks are intended for lifting outsized machinery and equipment

→ For more details see pages 11–15.

Standard Scope of Delivery

«SK» Wedge puller



Manual pump «NRG-1»



→ For more details see page 105

High-pressure hose 3 m with QRC



Documents



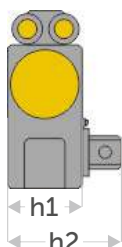
Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»



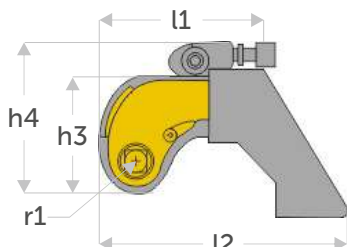
Description

The nut runner wrench body is made of high-quality steel and aluminum–titanium alloy. High accuracy when tightening, error $\pm 3\text{N}\cdot\text{M}$. The support arm is 360° rotating. A reversing lock improves the efficiency and accuracy of the torque application.

Side view



Front view



Hexagon head



Adapters



The list of adapters and hexagon heads to be specified by your managera

Technical Specifications

Model	Strength, H·M	Drive	Weight, kg	h1, mm	h2, mm	h3, mm	h4, mm	l1, mm	l2, mm	r1, mm
FG-1	187–1837	3/4	2	50	72	95.5	131	125	189	26
FG-3	45–4512	1	4.4	68	95	127	176.5	160	242	35
FG-5	752–7528	1-1/2	7.5	80	123	149	198.5	204	264	42
FG-8	1078–10780	1-1/2	9	90	134	167	216.5	222	293	47
FG-10	1551–15516	1-1/2	13	100	142	182	231.5	243	369	53
FG-20	2666–26664	2-1/2	23	120	183	220	269.5	310	386	64
FG-25	3472–34725	2-1/2	31	137	200	247	296.5	330	406	66
FG-35	4866–48666	2-1/2	43	153	216	282	331.5	353	539	75

Dimensions of Hexagon Heads

FG-1

□ – 3/4

○ – 24, 27, 30, 34, 36, 41, 46, 50, 55

FG-3

□ – 1

○ – 30, 34, 36, 41, 46, 70, 50, 55, 60, 65, 70, 75

FG-5/FG-8/FG-10

□ – 1-1/2

○ – 36, 41, 46, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 110, 115, 120, 130

FG-20/FG-25/FG-35

□ – 2-1/2

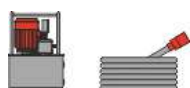
○ – 55, 60, 65, 70, 75, 80, 90, 95, 100, 105, 110, 120, 130, 135, 145, 150, 155, 160

□ – connection dimension, mm

○ – dimension of the hexagon, mm

Standard Scope of Supply

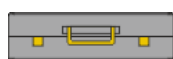
«FM» oil-pumping station and a set of high-pressure hoses with QRC 3 m



«FG» hydraulic torque wrench



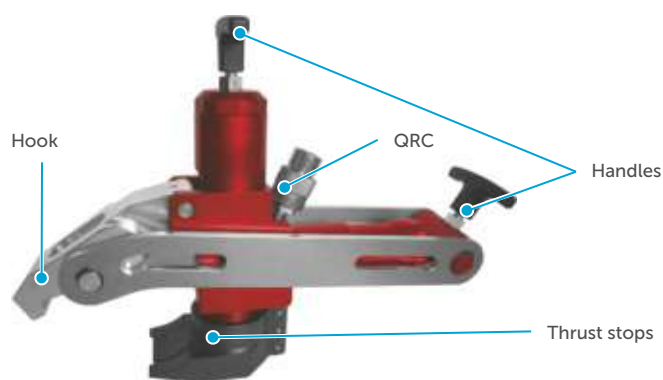
Case (to be supplied not with all models)



Documents



Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»



Description

«GR-10/10A/10L/10SPL/SP» series beading devices are designed to separate inner and outer wheel side rings of dump trucks and tractors with the 3-piece rims from 25 to 57 inches

GR-10A



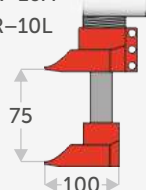
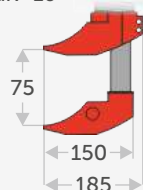
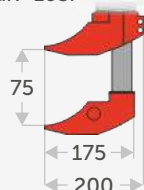
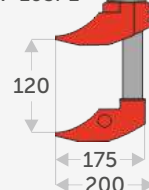
GR-10L



GR-10SPL



Dimensions of Beading Device Thrust Stops, mm

Model
GR-10A
GR-10LModel
GR-10Model
GR-10SFModel
GR-10SPL

GR-10SP



GR-10



Hook Types for Inner Rim

Item numbers



GR-S1



GR-S2

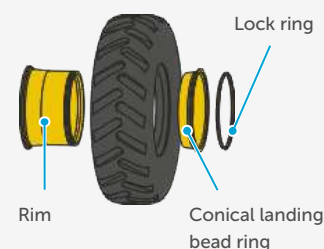


GR-A23

For the models GR-10; GR-10SP; GR-10SPL

For the models GR-10A

3-Piece Wheel Model



Technical Specifications

Model	GR-10A	GR-10L	GR-10	GR-10SPL	GR-10SP
Thrust force, kg	3850	3850	4700	4700	4700
Range of serviceable wheels, inch	до 25	до 25	25–57	25–57	25–57
Weight, kg	8,5	8,5	17	17,4	18,5

Recommended Additional Equipment



Electrical hydraulic oil-pumping station



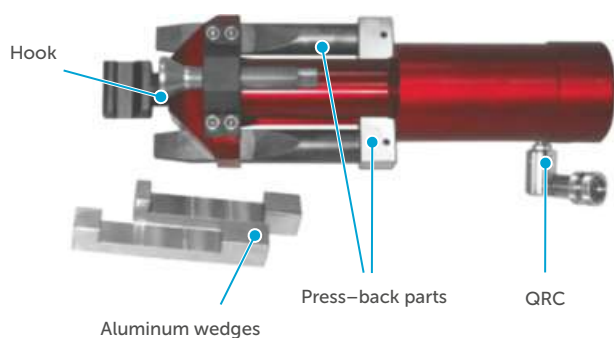
Pneumatic hydraulic oil-pumping station

Standard Scope of Supply

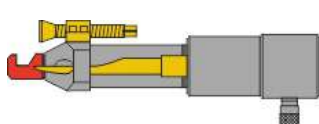
«GR» series
beading deviceManual pump
«NRG-1»→ For more details
see page 105High-pressure hose
3 m with QRC

Documents

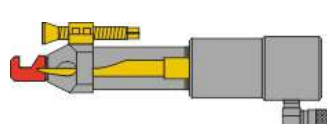
Certificate or declaration of the technical regulation of the
Customs Union «On safety of machinery and equipment»



GR-20



GR-20T



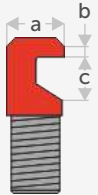
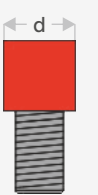
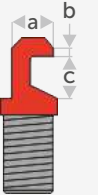
Description

«GR-20, GR-20T» series beading devices are designed to separate inner and outer wheel side rings of dump trucks and tractors with the 5-piece rims from 25 to 51 inches

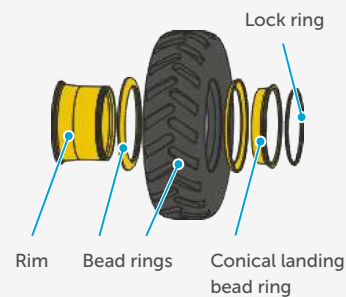
Technical Specifications

Model	GR-20	GR-20T
Thrust force, kg	19700	19700
Range of serviceable wheels, inch	25–51	25–51
Weight, kg	8	8

Hook Types for Conical Bead Ring, mm

			
Item numbers			
GR-H1	GR-H2	GR-H3	GR-H4

5-Piece Wheel Model



Parameters of Grips, mm

Item No.	a, mm	b, mm	c, mm	d, mm
GR-H1	30	8	78	43
GR-H2	29	10	78	43
GR-H3	36	10	100	50
GR-H4	30	9	85	37

Recommended Additional Equipment



Electrical hydraulic oil-pumping station



Pneumatic hydraulic oil-pumping station

Documents



Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»

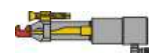
Differences Between the Models

«GR-20T» model provides for the QRC rotation for 360°



Standard Scope of Supply

«GR» series beading device



Manual pump «NRG-1»



High-pressure hose 3 m with QRC



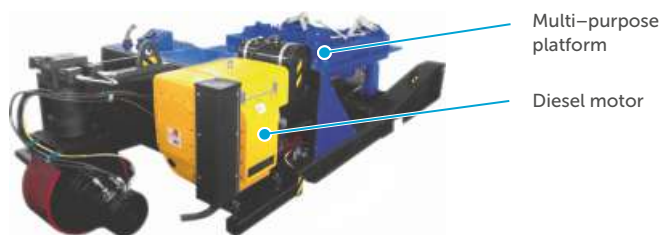
→ For more details see page 105

> TSMK

Self-Propelled Device with Convertible Attachments

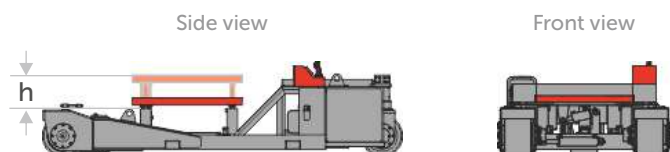
- + L-series HATZ motor
- + Smooth and uniform movement
- + Remote control





Description

The self-propelled hydraulic module allows for precise positioning of equipment on the mine dump trucks, such as wheel gear motor, suspension cylinders, dumping mechanism cylinder, hydraulic pneumatic accumulators, etc.



Features

- ✓ **Increased Lifting Capacity**
(from 15 to 20 tons).
- ✓ **Safety**
due to remote control of the module.
- ✓ **Mobility**
achieved due to three swivel wheels that provide a minimum radius when turning the module
- ✓ **Multifunctionality**
provided by vertically located hydraulic cylinders responsible for lifting/lowering, tilting in the longitudinal and transverse planes, and one horizontally located cylinder responsible for turning in the horizontal plane.

L-series HATZ motor is installed in this model.



Its advantages are as follows:

- ✓ «Silent Pack» silencer housing;
- ✓ Low fuel consumption rate;
- ✓ Developed and made in Germany;
- ✓ Compliant with the strict requirements of toxicity standards.

Watch the video presentation using the QR-code or following the link



→ https://www.youtube.com/channel/UCVIdt_6Ztg4vfQHNTt7kSaQ/playlists...

Machinery to be Serviced



∞ all types of machinery

Technical Specifications

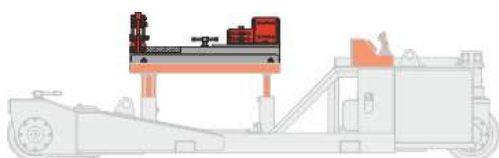
Model	TSMK-15	TSMK-20
Carrying capacity, kg	15000	20000
Hoist height h, mm	150	150
Table turning, degrees	+/-6°	+/-6°
Longitudinal tilt of the table, degrees	+/-8°	+/-8°
Transverse tilt of the table, degrees	+/-5°	+/-7°
Steering control system	Hydraulic	Hydraulic
Drive	Hydraulic	Hydraulic
Radius of turning, m	4,5	4,5
Angle of turn of the rear wheel, degrees	+/-58°	+/-58°
Drive wheel	Large-load wheel with the polyurethane contact layer	
Dimensions (l x b x h), mm	3555 x 1826 x 797	5400 x 2170 x 794
Weight, kg	3230	5200

Convertible attachments for removal, installation of components and assemblies of mine dump trucks for «TSMK» self-propelled device



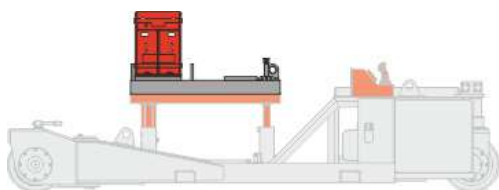
TSMK-PNU

The device is intended for gripping, removing, installing and moving suspension cylinders, pillars, dumping mechanism cylinders, hydraulic pneumatic accumulators



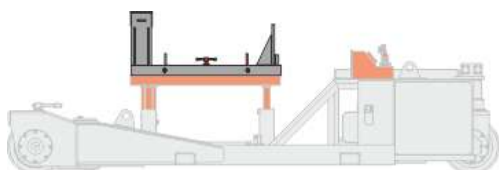
PSMK

The device allows to mount/dismantle the motor-wheel gear (PMK) of electric mining dump trucks with a carrying capacity of 90–360 tons, as well as the loaders.



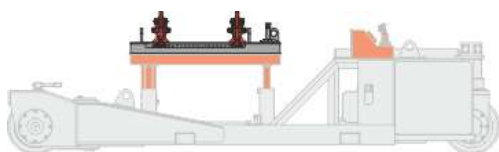
PZS-U

The device is intended for removal and replacement of components, differential gears and assembled front hubs of most models of mine dump trucks BelAZ, Cat, Komatsu, Terex, Liebherr, Kress and Hitachi.



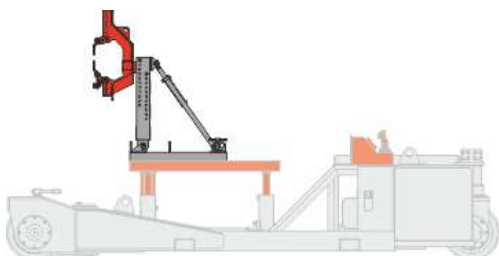
PSMK lite

Unlike «PSMK» model, «PSMK lite» model does not have the components adjustment, therefore it is a cheaper analogue of «PSMK» model.



TSMK-PNS

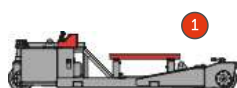
The device allows mounting/dismantling of final reduction gear of Caterpillar mine dump trucks of 773, 776, 777 models. Removal of final reduction gear for subsequent repair or maintenance in the workshop. Fastened to the forklift forks.



TSMK-PZS

Designed to facilitate the safe and efficient removal and replacement of the components, such as the overhead bulldozer drives, differential gears and front hub assemblies on most mine truck models.

Standard Scope of Supply



«TSMK» self-propelled hydraulic module

Documents



Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»



Mandatory equipment according to the Federal Law No.116-FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)



Control panel



Hydraulic motor with the brakes



Multi-purpose platform



Driving wheel



Hydraulic cylinder of the swivel wheel



Hydraulic pump



General view of «TSMK» with the multi-purpose equipment



Hydraulic slewing drive

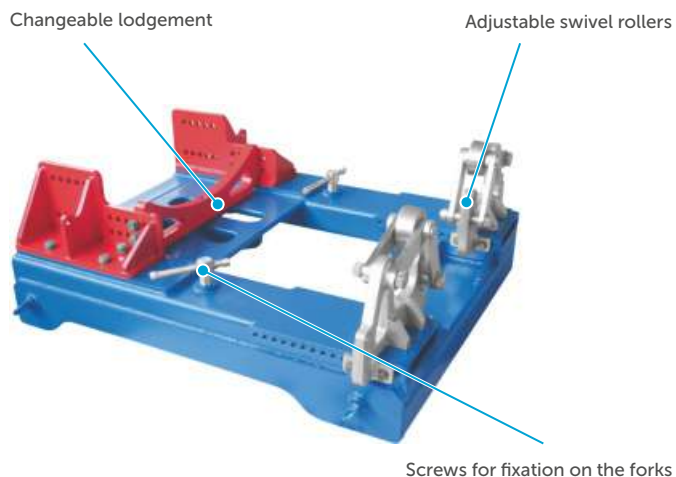


> PSMK

Device for Removal/Installation of Motor–Wheel Reduction Gears for Mining Trucks

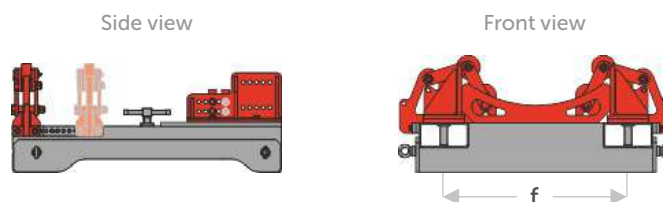
- + Versatility
- + Changeable lodgement
- + Adjustable swivel rollers





Description

The device allows mounting/dismounting motor-wheel reduction gears of electric mine dump trucks with a carrying capacity of 90–360 tons, as well as the loaders for subsequent repair or maintenance in the workshop. It is mounted on the forklift forks.



Required Carrying Capacity of Hoist Machinery

	Carrying capacity of the dump truck, tons			
	90	110...136	220...240	320...360
	12 000 kg	16 000 kg	20 000 kg	25 000 kg
	12 000 kg	16 000 kg	20 000 kg	25 000 kg
	20 000 kg ¹	20 000 kg ¹	25 000 kg ¹	35 000 kg ¹
	TSMK-15	TSMK-15	TSMK-15	TSMK-20

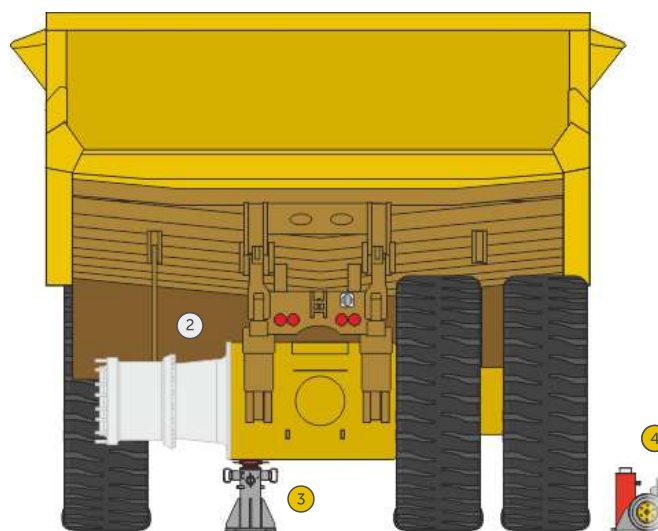
¹ Operating weight of the loader

Installation on other Types of Machinery

	Forklift ✓ Included		Telescopic handler ✓ Included
	Frontal loader ✓ Included		Self-propelled unit At request

For installation of «PSMK» on «TSMK» self-propelled unit, the model code is changed from «PSMK» → «PDE»

- 1 «PSMK» device
- 2 Wheel gear motor
- 3 «TPM/TPG/TMPV» stands
- 4 «DPAT» roller jack



Each model has its own lodgement

PSMK–90



PSMK–130



PSMK–240



PSMK–360

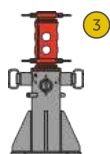


The lodgements have the similar connection dimensions and can be installed on any model

Technical Specifications

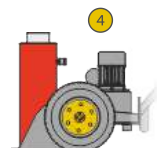
Model	PSMK–90	PSMK–130	PSMK–240	PSMK–360
Carrying capacity of the serviceable machinery, t	90	90–130	90–240	90–360
Carrying capacity, kg	8000	8000	12500	19000
Type of equipment	Attachment	Attachment	Attachment	Attachment
Dimensions (l x b x h), mm	1630 x 1405 x 950	1630 x 1405 x 950	1800 x 1550 x 1050	1980 x 1800 x 1250
Weight, kg	1100	1100	1300	1450
For the standard forklift forks, f	✓	✓	✓	✓

Recommended Additional Equipment



«TPG/TPM/TMPV» series adjustable stands are designed for keeping the large-sized quarry machinery in a hanging condition during repair and maintenance of running gear.

→ For more details see pages 19–21.

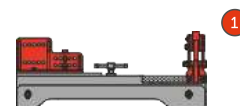


«DPAT» series hydraulic trolley jacks are intended for lifting outsized machinery and equipment

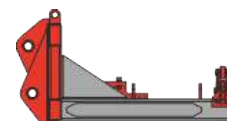
→ For more details see pages 11–15.

Standard Scope of Supply

«PSMK» device with fastening for forklift



«PSMK» device with fastening for frontal loader



«PSMK» device with fastening for telescopic handler



Documents



Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»



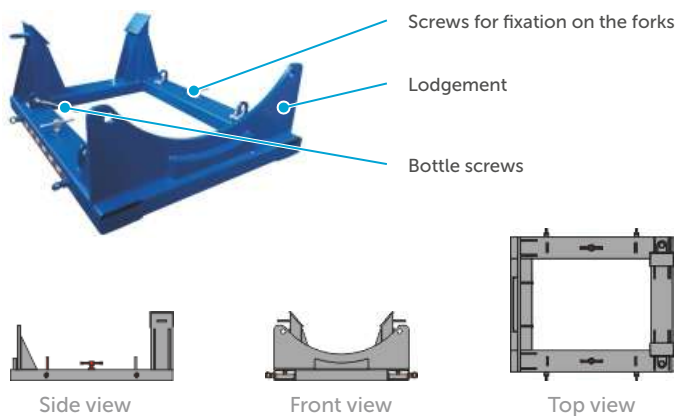
Mandatory equipment according to the Federal Law No.116–FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)

> PSMK lite

Device for Removal/Installation of Motor–Wheel Reduction Gears for Mining Trucks

- + Simplified analogue of PSMK
- + Changeable lodgement
- + Adjustable swivel rollers





Description

The device allows mounting/dismounting motor–wheel reduction gears (PMK) of electric mine dump trucks with a carrying capacity of 90-360 tons, as well as the loaders for subsequent repair or maintenance in the workshop. It is mounted on the forklift forks.

Compared to «PSMK» model, «PSMK lite» does not have component adjustment, therefore it is a simplified analogue of «PSMK» model.

Installation on other Types of Machinery

	Forklift ✓ Included		Telescopic handler ✓ Included
	Frontal loader at request		Self-propelled unit At request

Required Carrying Capacity of Hoist Machinery

	Carrying capacity of the dump truck, tons			
	90	110...136	220...240	320...360
	12 000 kg	16 000 kg	20 000 kg	25 000 kg
	12 000 kg ¹	16 000 kg ¹	20 000 kg ¹	25 000 kg ¹

¹ Operating weight of the loader

Technical Specifications

Model	PSMK lite–90	PSMK lite–130	PSMK lite–240	PSMK lite–360
Carrying capacity of the serviceable machinery, t	90	130	240	360
Carrying capacity, kg	8000	8000	12500	19000
Type of equipment	Attachment	Attachment	Attachment	Attachment
Dimensions (l x b x h), mm	1810 x 1500 x 772	1810 x 1500 x 772	1980 x 1800 x 1100	2178 x 1980 x 1210
Weight, kg	512	563	619	681

- ① «PSMK lite» device
- ② Wheel gear motor
- ③ «TPM/TPG/TMPV» stands
- ④ «DPAT» roller jack



Standard Scope of Supply

«PSMK lite» device



➔ For recommended additional equipment see page 51.

Documents



Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»

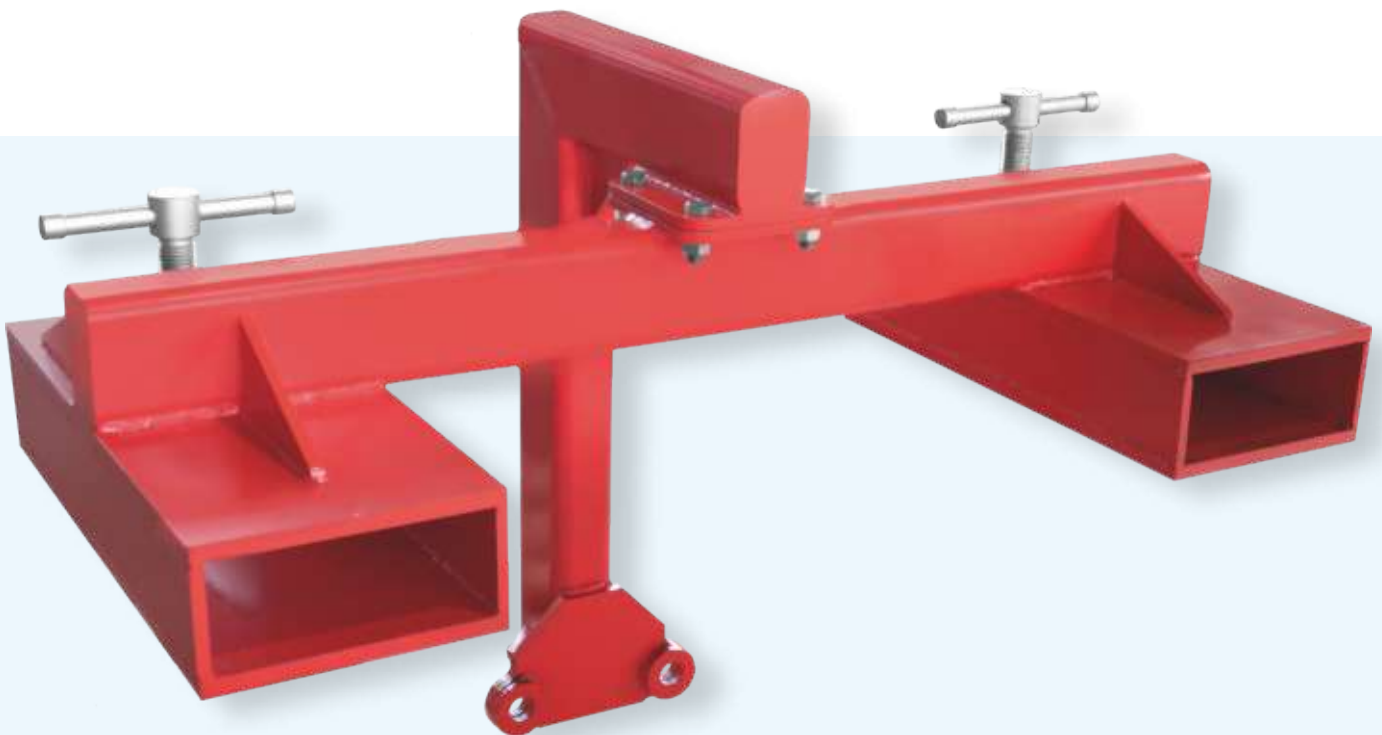


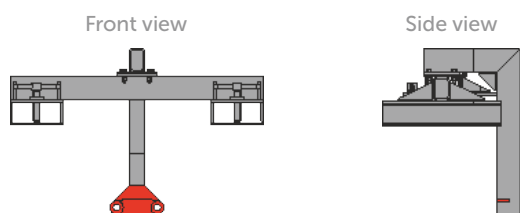
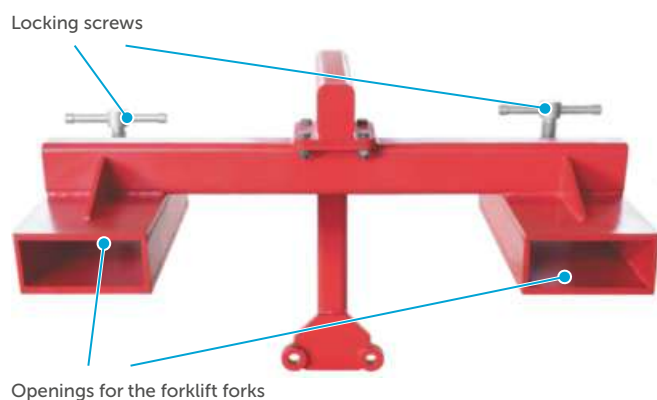
Mandatory equipment according to the Federal Law No.116–FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)

> PSED

Device for Removal/Installation of Traction Electric Motor for Motor–Wheel Reduction Gears

- + Simple design
- + Quick installation
- + Portability





Description

It is an attachment that is installed and fixed on the forklift forks. It is intended for mechanization of labor-intensive processes of removal and installation of the traction electric motor for motor–wheel reduction gears on mine dump truck.

The equipment has the following features:

- ✓ Fastened with a clip
- ✓ Quick installation of the device
- ✓ Portability

Installation on other Types of Machinery



Forklift

✓ Included



Telescopic handler

✓ Included

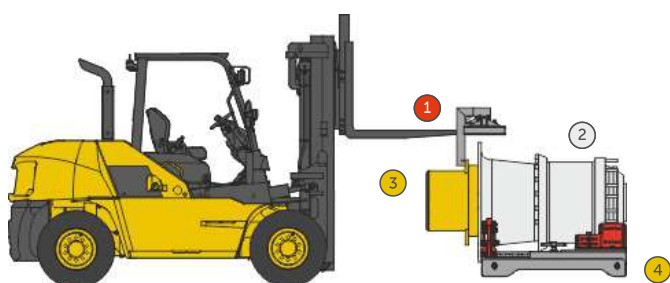
Required Carrying Capacity of Hoist Machinery



Not less than 5 tons,
depending on the dismantled unit

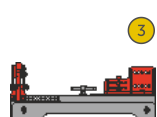
Technical Specifications

Model	PSED–90	PSED–130	PSED–240	PSED–360
Serviceable machinery	BelAZ 7558	BelAZ 7513	BelAZ 7530	BelAZ 7560
Type of equipment	Quick–detachable attachment			
Dimensions (l x b x h), mm	700 x 630 x 545	700 x 630 x 545	805 x 725 x 627	910 x 820 x 709
Weight, kg	176	176	202	290



- 1 «PSED» device
- 2 Motor–wheel gear
- 3 Traction electric motor
- 4 «PSMK»

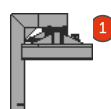
Recommended Additional Equipment



«PSMK» device allows to install and dismantle the motor–wheel reduction gear (PMK) of electrical mine dump trucks with the carrying capacity of 90–360 tons, as well as the loaders

→ For more details see pages 49–53.

Recommended Additional Equipment



Standard scope of delivery includes the disassembled «PSED» device.

Documents



Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»



Mandatory equipment according to the Federal Law No.116–FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)

> **PZS–G**

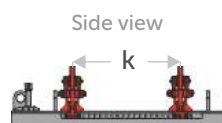
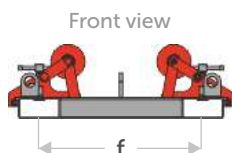
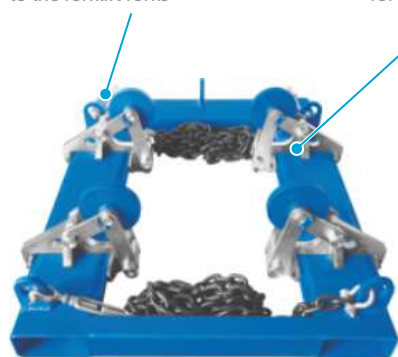
Device for Removal/Installation of Caterpillar 773/776/777 Final Reduction Gear

- + Safety
- + Quick installation
- + Adjustable roller supports
for various machinery models



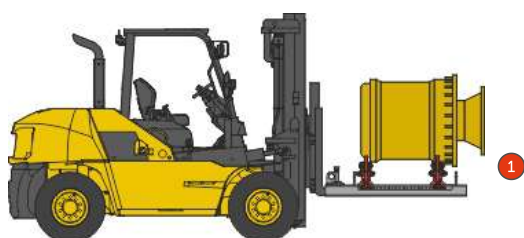
Quick and safe fastening
to the forklift forks

Adjustable roller supports
for various machinery models



Technical Specifications

Model	PZS-G
Carrying capacity, kg	10000
Carrying capacity of the loader, kg	≥ 15000
Type of equipment	навесное
Dimensions (l x b x h), mm	1500 x 1296 x 425
Weight, kg	320
Adjustment range k, mm	200–840
For standard forklift forks f, mm	✓
Compatibility	
CAT 773	✓
CAT 776	✓
CAT 777	✓



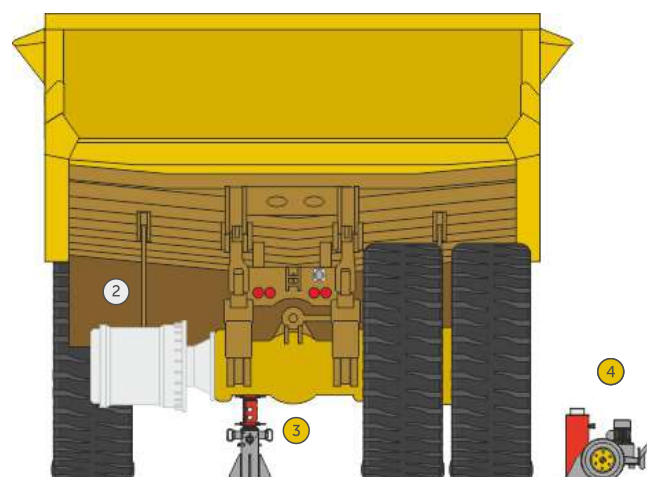
Description

The device allows to mount/dismantle final reduction gear of 773, 776, 777 model «Caterpillar» dump trucks for subsequent repair or maintenance in the workshop. It is mounted on the forklift forks.

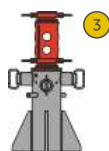
Installation on other Types of Machinery

	Forklift ✓ Included		Telescopic handler ✓ Included
	Frontal loader At request		Self-propelled unit At request

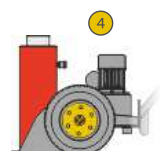
- 1 «PZS-G» device
- 2 Wheel-motor gear
- 3 «TPG/TPM/TMPV» stands
- 4 «DPAT» roller jack



Recommended Additional Equipment



«TPG/TPM/TMPV» series adjustable stands are designed for keeping the large-sized quarry machinery in a hanging condition during repair and maintenance of running gear.
→ For more details see pages 19–21.



«DPAT» series hydraulic trolley jacks are intended for lifting outsized machinery and equipment
→ For more details see pages 11–15.

Standard Scope of Supply

«PZS-G» device



Documents



Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»

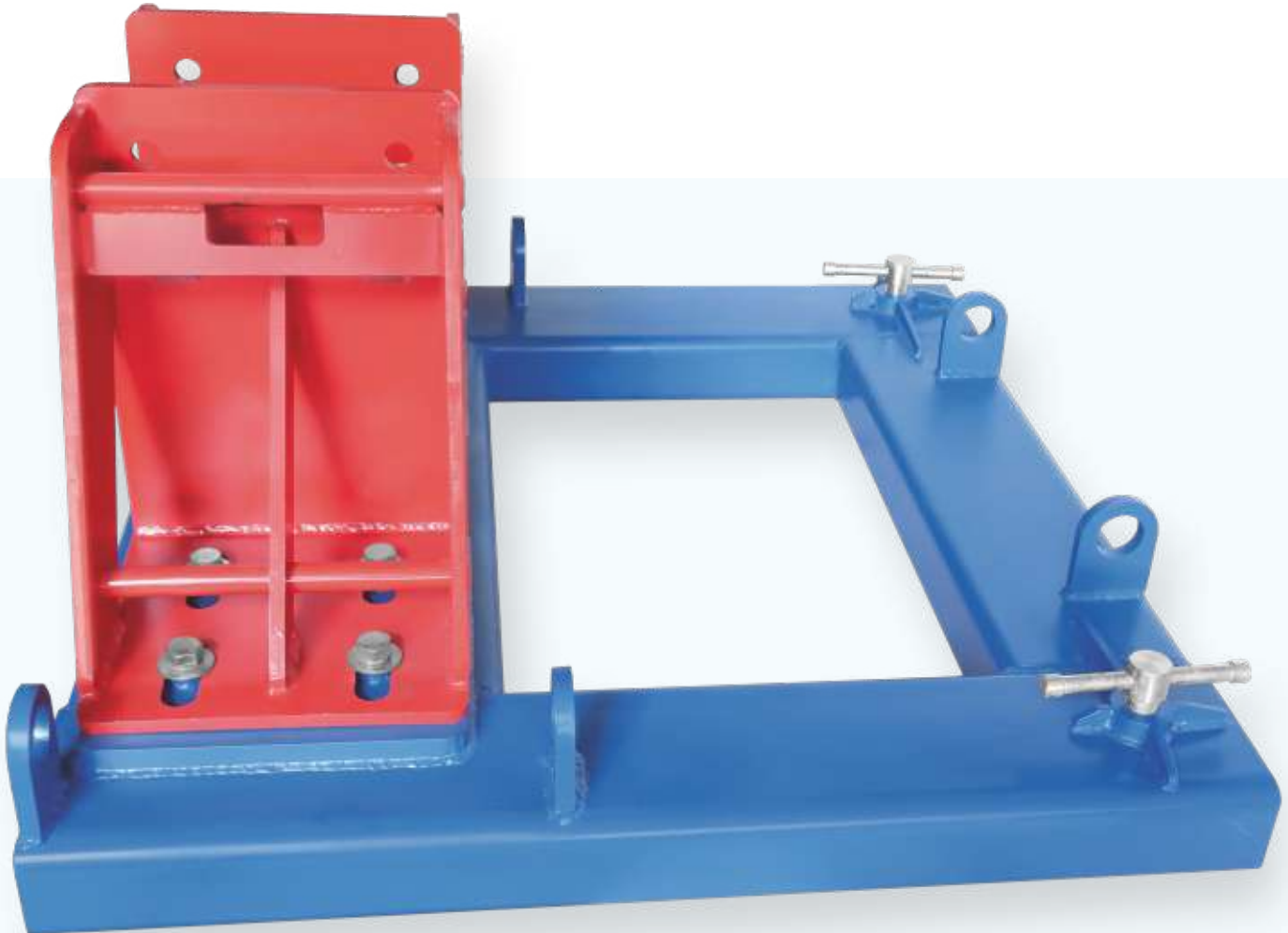


Mandatory equipment according to the Federal Law No.116–FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)

> PZS-U

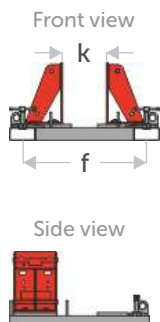
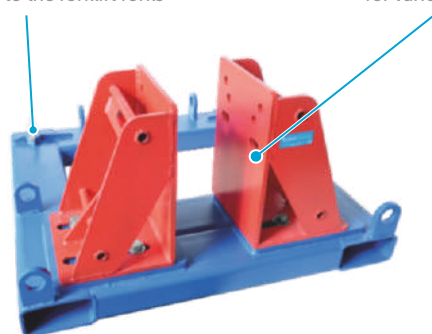
Device for Removal/Installation of Caterpillar 773/776/777 Pillar and Hub Assembly

- + Versatility
- + Ease of use
- + Quick installation



Quick and safe fastening to the forklift forks

Adjustable roller supports for various machinery models



Description

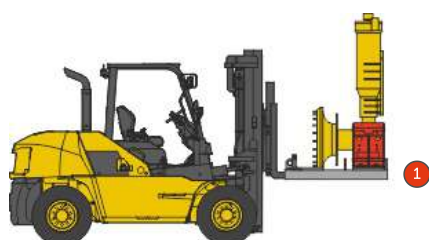
The device allows to dismantle front suspension and hub assembly of 773, 776, 777 model «Caterpillar» dump trucks for subsequent repair or maintenance in the workshop.

Installation on other Types of Machinery

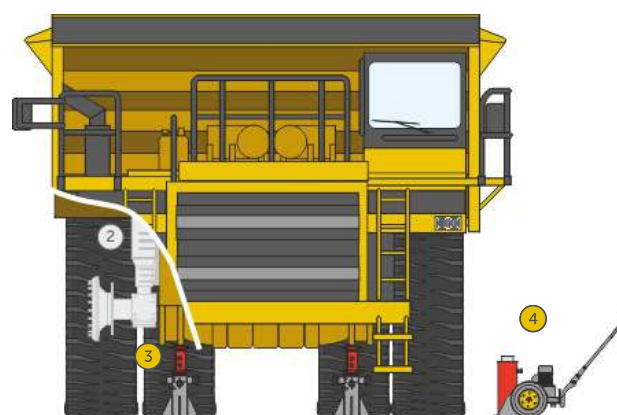
	Forklift ✓ Included		Telescopic handler ✓ Included
	Frontal loader ✗ Impossible		Self-propelled unit At request

Technical Specifications

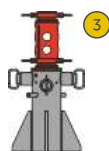
Model	PZS-U
Carrying capacity, kg	2500
Carrying capacity of the loader, kg	≥ 5000
Type of equipment	Attachment
Dimensions (l x b x h), mm	1300 x 1380 x 700
Weight, kg	500
Adjustment range k, mm	240–400
For standard forklift forks f, mm	✓
Compatibility	
CAT 773	✓
CAT 776	✓
CAT 777	✓



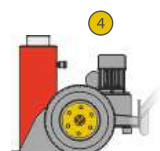
- 1 «PZS-U» device
- 2 Front suspension and hub assembly
- 3 «TPG/TPM/TMPV» stands
- 4 «DPAT» roller jack



Recommended Additional Equipment



«TPG/TPM/TMPV» series adjustable stands are designed for keeping the large-sized quarry machinery in a hanging condition during repair and maintenance of running gear.
→ For more details see pages 19–21.



«DPAT» series hydraulic trolley jacks are intended for lifting outsized machinery and equipment
→ For more details see pages 11–15.

Standard Scope of Supply

«PZS-U» device



Documents



Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»



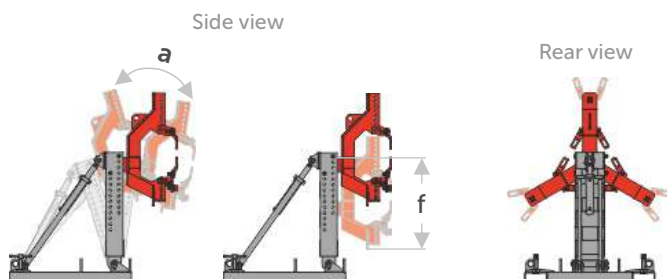
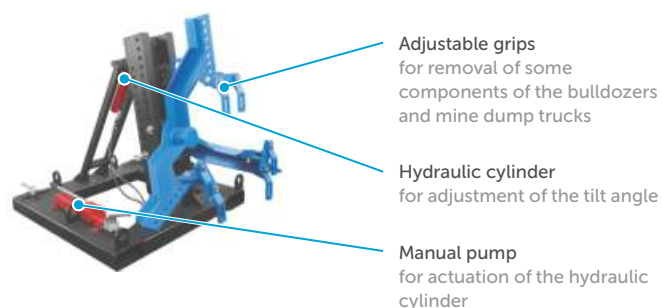
Mandatory equipment according to the Federal Law No.116–FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)

> TSMK-PZS

Multipurpose Clamping Device for Removal/Installation of Front Hub Assembly

- + Efficiency and safety
- + Wide adjustment range





Required Carrying Capacity of Hoist Equipment

	Carrying capacity of dump truck, tons	90	130	220...240	320...360
	Not less than 5 tons, depending on the dismantling unit				
	TSMK-15	TSMK-15	TSMK-15	TSMK-20	
	Not less than 5 tons, depending on the dismantling unit				

- 1 «TSMK-PZS» device
- 2 Front suspension and hub assembly
- 3 «TPM/TPG/TMPV» stand
- 4 «DPAT» roller jack



Standard Scope of Supply

TSMK-PZS» device



→ For recommended additional equipment see the following page.

Description

It is intended to facilitate safe and efficient removal and replacement of components, such as the overhead bulldozer drives, differential gears, front hub assemblies, on most mine truck models. It connects to additional hydraulic ports on the loader or to manual pump.

Installation on other Types of Machinery

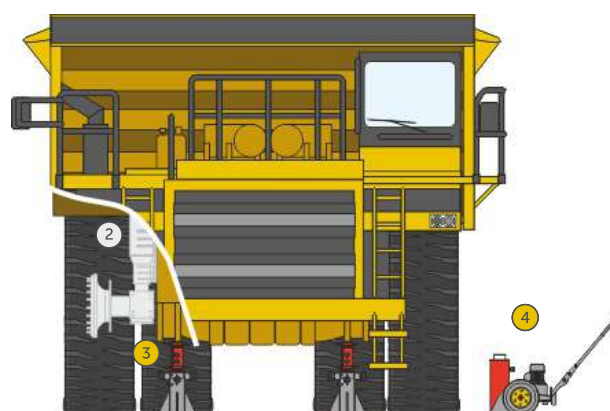
	Forklift		Telescopic handler
	✓ Included		✓ Included
	Frontal loader		Self-propelled unit
	✗ Impossible		At request

Machinery to be Serviced

	∞ All types of mine dump trucks of 30–50 tons
--	---

Technical Specifications

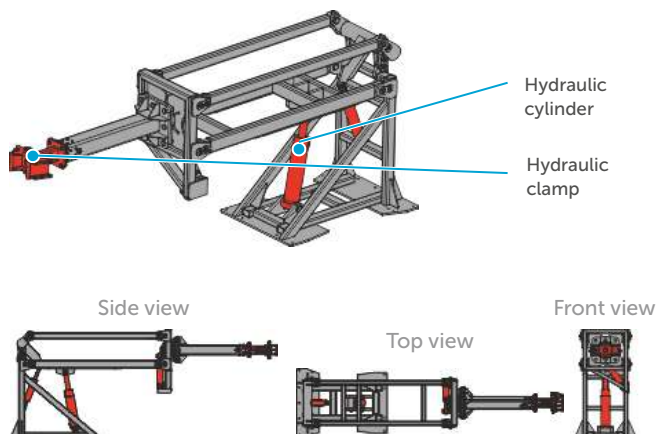
Model	TSMK-PZS
Carrying capacity, kg	1500
Dimensions (l x b x h), mm	1800 x 1400 x 2000
Weight, kg	700
Grip diameter, mm	540–1700
Height adjustment range f, mm	600
Tilt angle, degrees a	+/- 6



Documents

EAC Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»

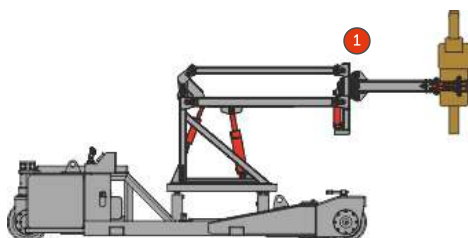
✓ Mandatory equipment according to the Federal Law No.116-FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)



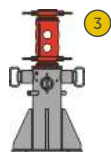
Technical Specifications

Model	TSMK–PNU
Carrying capacity, kg	1500
Grip height, mm	1060–2605
Rotation angle of grip, degrees	+/-20°

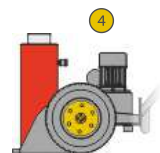
- 1 «TSMK–PNU» device
- 2 Cylinder of air–oil suspension
- 3 «TPG/TPM/TMPV» stand
- 4 «DPAT» roller jack



Recommended Additional Equipment



«TPG/TPM/TMPV» series adjustable stands are designed for keeping the large–sized quarry machinery in a hanging condition during repair and maintenance of running gear.
→ For more details see pages 19–21.



«DPAT» series hydraulic trolley jacks are intended for lifting outsized machinery and equipment
→ For more details see pages 11–15.

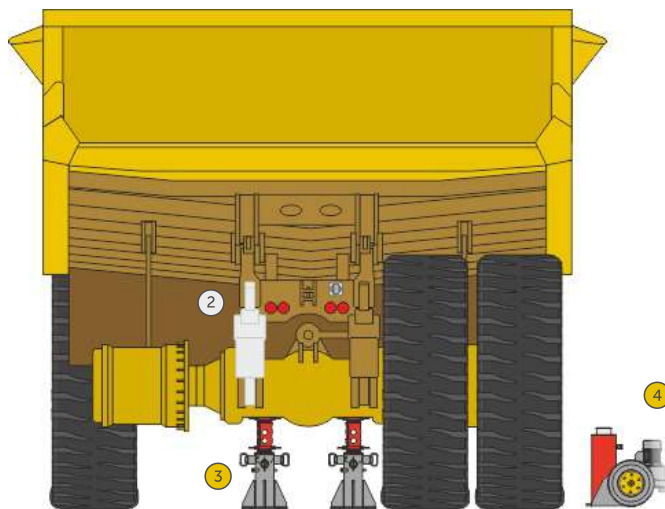
Description

The multipurpose, inclined, clamping device is designed for gripping, removing, installing and moving suspension cylinders, pillars, dumping mechanism cylinders, hydraulic pneumatic accumulators.

It is bolted to the self–propelled module.
It connects to «TSMK» additional hydraulic ports.

Installation on other Types of Machinery

	Forklift		Telescopic handler
✗ Impossible		✗ Impossible	
	Frontal loader		Self–propelled unit
✗ Impossible		✓ Included	



Standard Scope of Supply

«TSMK–PNU» device



Documents



Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»

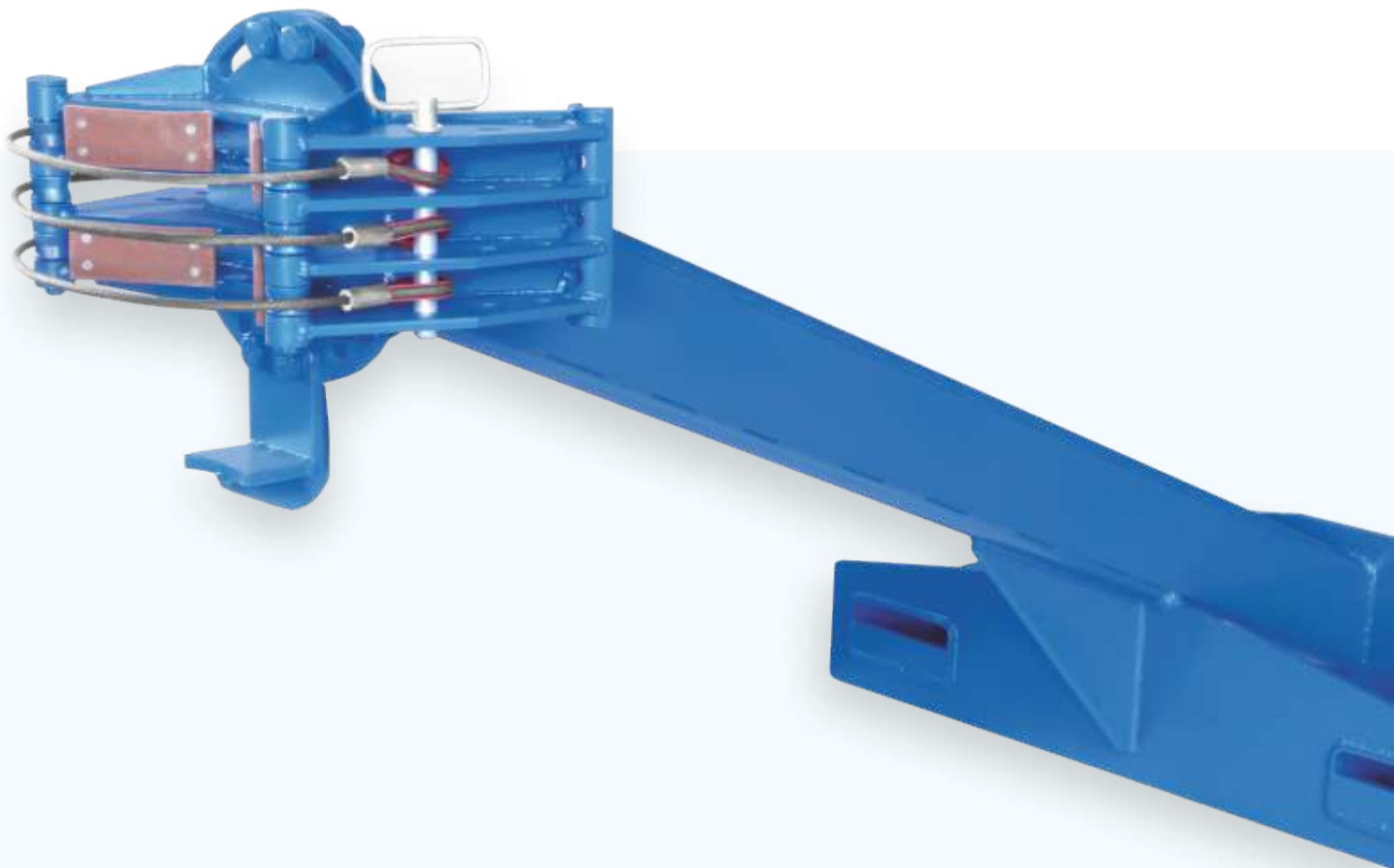


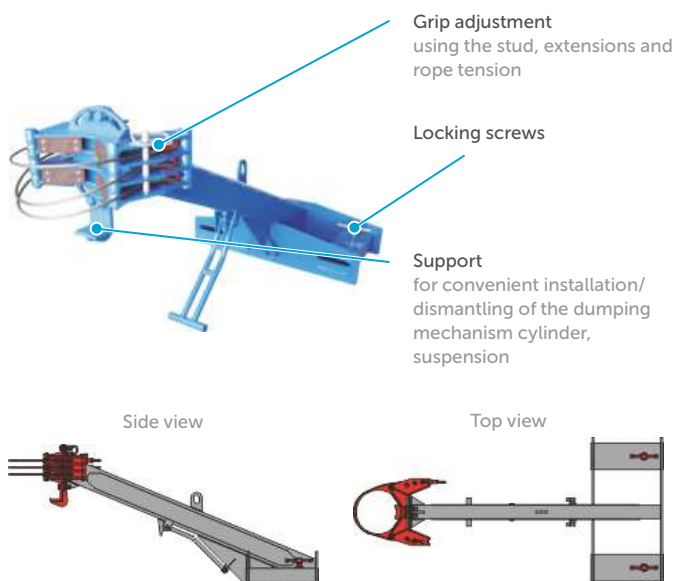
Mandatory equipment according to the Federal Law No.116–FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)

> PC–UNI

Manipulator for Dumping Mechanism Cylinders and Suspension of Mine Dump Trucks

- + Portability
- + Possible installation on various machines

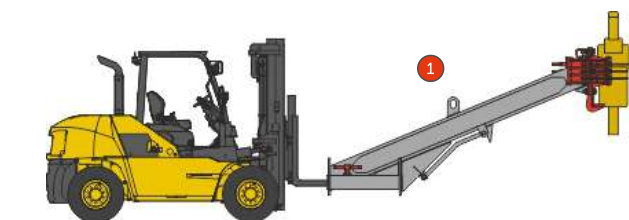




Technical Specifications

Model	PC-UNI
Type of equipment	Attachment
Carrying capacity, kg	1000
Carrying capacity of the serviceable machinery	30–360
Tilt angle of grip, degrees	+/-40
Grip diameters of the parts, mm	200–500
Dimensions (l x b x h), mm	2460 x 1340 x 1280
Weight, kg	415

- 1 «PC-UNI» device
- 2 Cylinder of the air-oil suspension
- 3 «TPG/TPM/TMPV» stands
- 4 «DPAT» roller jack



Standard Scope of Supply

«PC-UNI» device



Extension



→ For recommended additional equipment see page 62.

Description

The device is designed for gripping, removing, installing and moving the cylinders of dumping mechanism and air-oil suspensions of mine dump trucks with a carrying capacity of 30 to 240 tons.

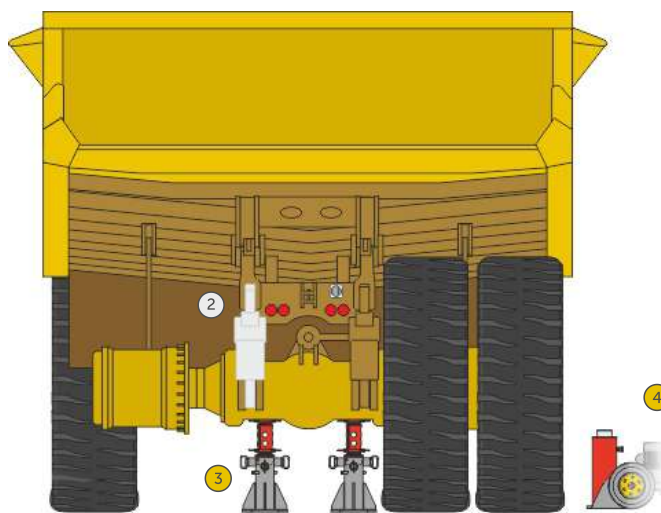
Features

- ✓ Quick installation of the device
- ✓ Easy modification for various machines
- ✓ Portability
- ✓ Installation/dismantling of the front suspension with no wheel removal

Machinery to be Serviced



∞ All types of the mine dump trucks



Documents



Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»



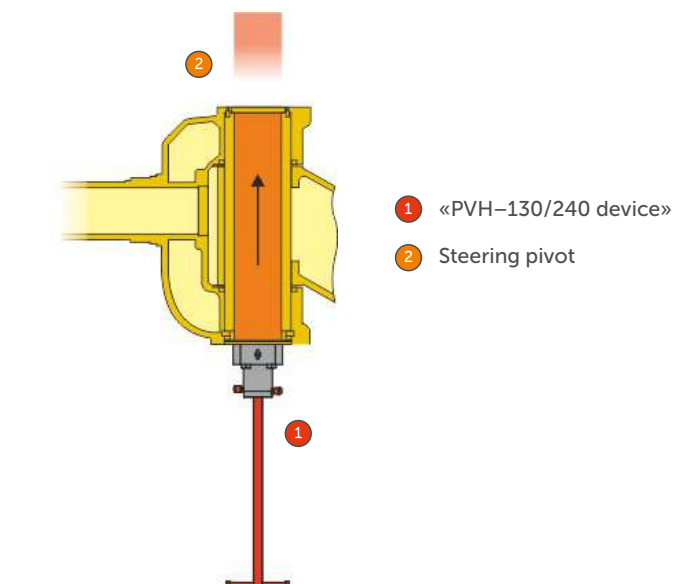
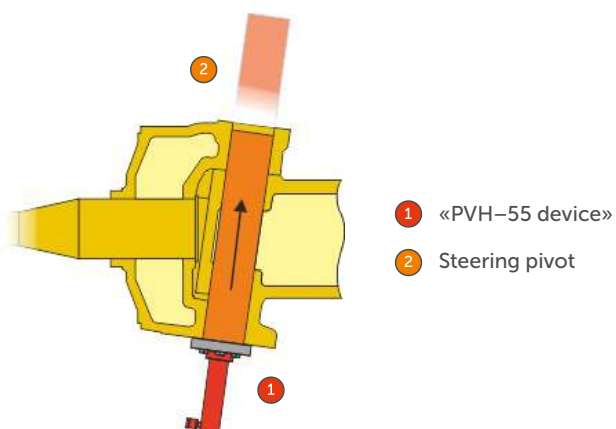
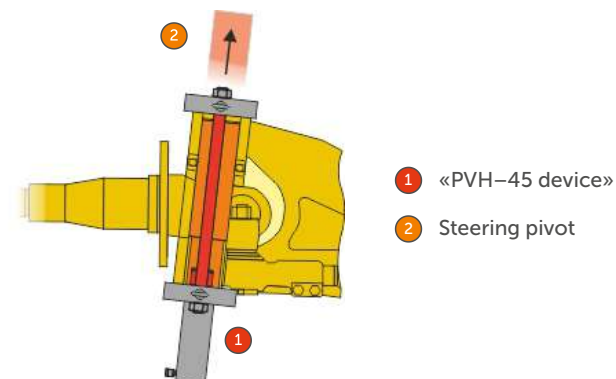
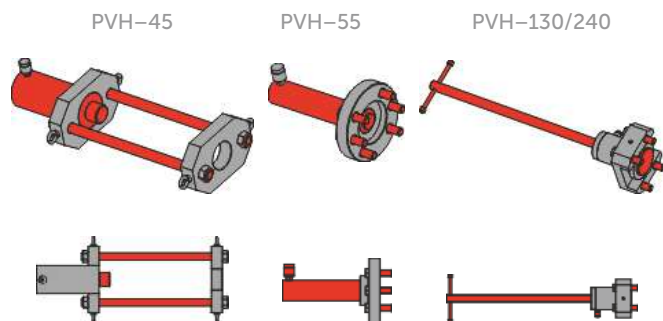
Mandatory equipment according to the Federal Law No.116-FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)

> **PVH**

Buffing Devices for Front Axle Steering Pivot of BelAZ Mine Dump Trucks

- + Portability
- + Ease of use
- + Safety





Description

The devices are intended for buffing the front axle steering pivot of BelAZ mine dump trucks with the carrying capacity of 30–240 tons

Machinery to be Serviced



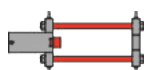
PVH-45	PVH-55	PVH-130	PVH-240
BelAZ 7540	BelAZ 7555	BelAZ 7513	BelAZ 7530
BelAZ 7545			
BelAZ 7547			

Technical Specifications

Model	PVH-45
Strain, tf	35
Dimensions (l x b x h), mm	880 x 220 x 300
Weight, kg	60
Model	PVH-55
Strain, tf	15
Dimensions (l x b x h), mm	340 x 220 x 220
Weight, kg	20
Model	PVH-130
Strain, tf	50
Dimensions (l x b x h), mm	1430 x 330 x 270
Weight, kg	106
Model	PVH-240
Strain, tf	50
Dimensions (l x b x h), mm	1430 x 330 x 270
Weight, kg	106

Standard Scope of Supply

«PVH» device



Manual pump
«NRG-1»



High-pressure hose
3 m with QRC



→ For more details
see page 105

Documents



Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»

> PVP

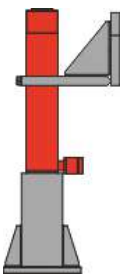
Buffing Device for Front Suspension Central Pin of BelAZ Mine Dump Trucks

- + Portability
- + Ease of use
- + Safety

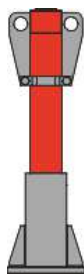




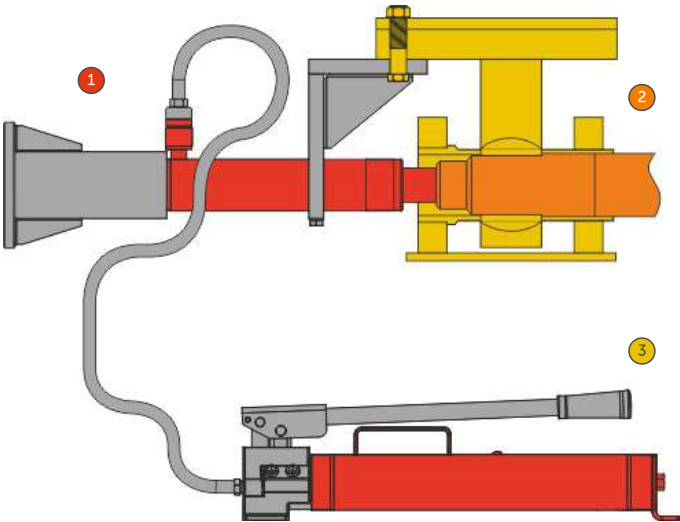
Side view



Top view



- 1 «PVP» device
- 2 Central pin
- 3 Manual pump «NRG-1»



Description

The device is intended for buffing the front suspension central pin of BelAZ dump trucks

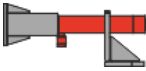
Machinery to be Serviced

	PVP-51 BelAZ 7513 (front suspension)	PVP-52 BelAZ 7513 (rear suspension)
---	---	--

Technical Specifications

Model	PVP-51/PVP-52
Dimensions (l x b x h), mm	590 x 160 x 255
Strain, tf	5
Rod stroke, mm	300
Weight, kg	15

Standard Scope of Supply



«PVP» device



Manual pump
«NRG-1»

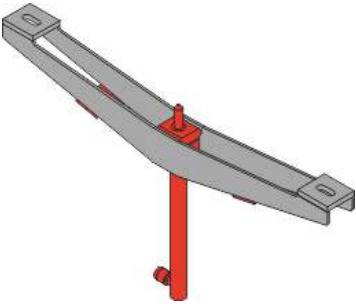


High-pressure hose
3 m with QRC

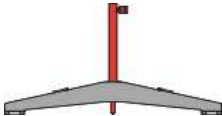
→ For more details
see page 105

Documents

EAC Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»



Side view

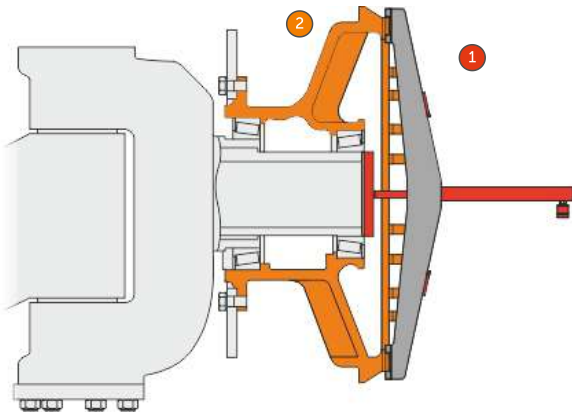


Top view



1 «PSS» device

2 Wheel boss



Description

The device is intended for dismantling the wheel bosses of BelAZ mine dump trucks.

Machinery to be Serviced



PSS-55

BelAZ 7540, 7545, 7555, 7513

Technical Specifications

Model	PSS-55
Strain, tf	5
Dimensions (l x b x h), mm	500 x 890 x 100
Weight, kg	32,5

Standard Scope of Supply

«PSS» device



Manual pump
«NRG-1»



High-pressure hose
3 m with QRC

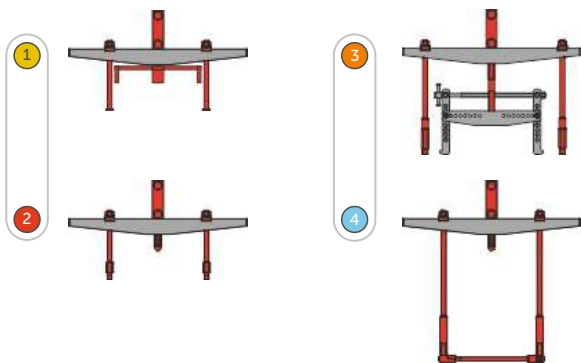
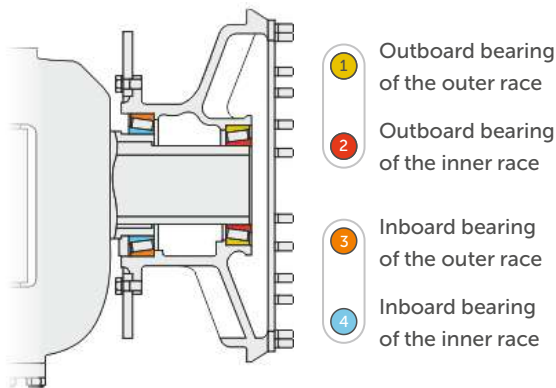
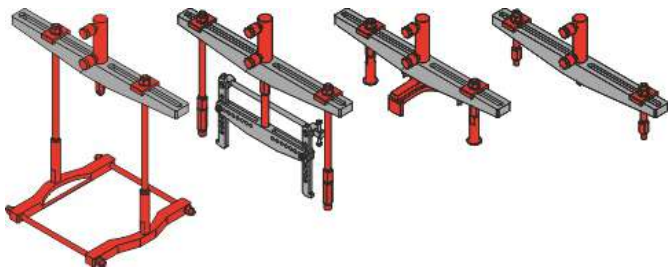


→ For more details
see page 105

Documents



Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»



Description

The device is intended for dismantling and removal of large hub bearings of BelAZ 7558, 7513, various parts and assemblies (pulleys, pinion gears, plugs etc.), having the press fit.

Machinery to be Serviced

	SGSPU-90	SGSPU-130
	BelAZ 7558	BelAZ 7513

Technical Specifications

Model	SGSPU-90	SGSPU-130
Pressure, MPa	70	70
Strain, tf	5	5
Rod stroke, mm	300	300
Weight, kg	15	18

Standard Scope of Supply

«SGSPU» device



Manual pump «NRG-1»



High-pressure hose 3 m with QRC



→ For more details see page 105

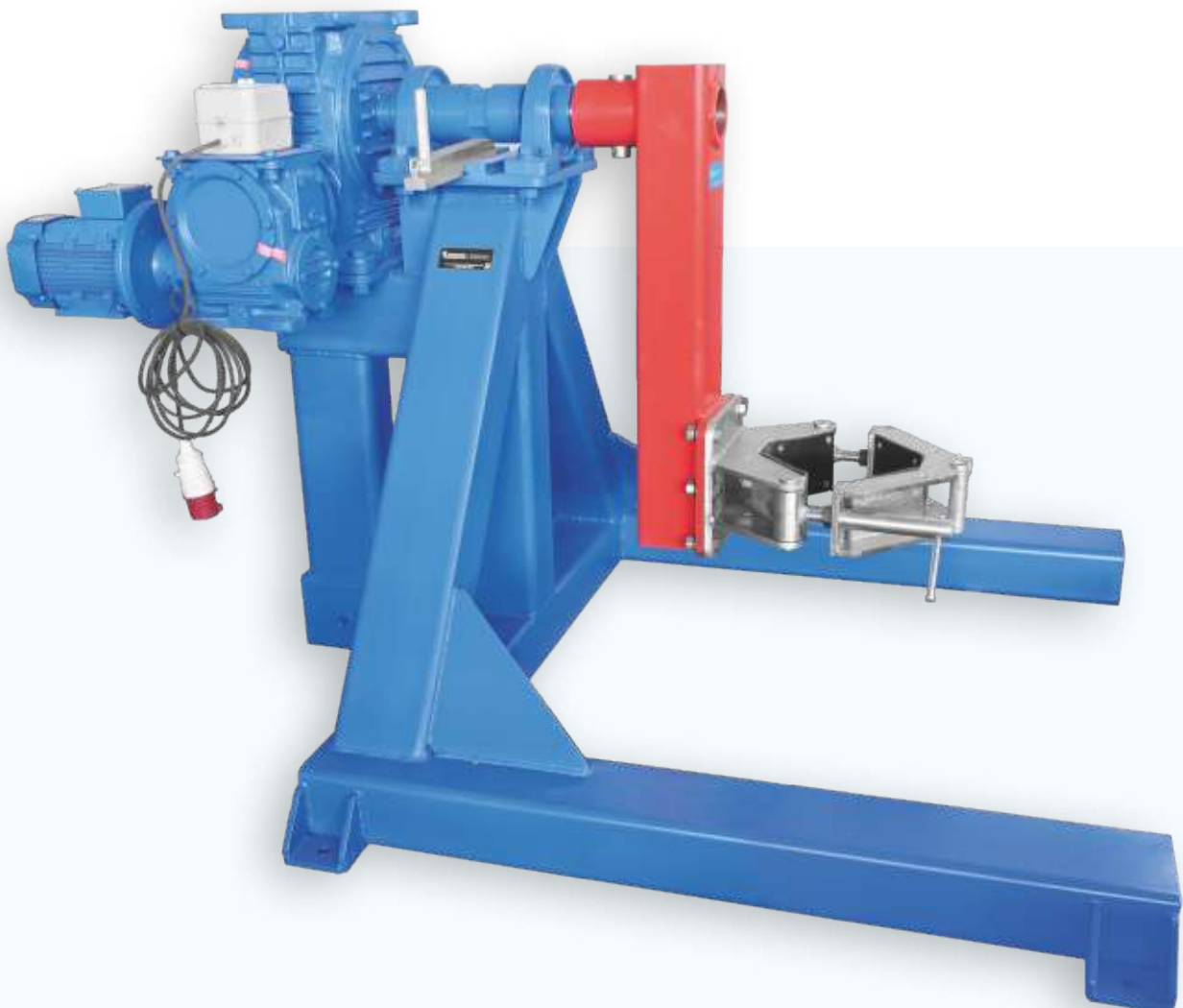
Documents

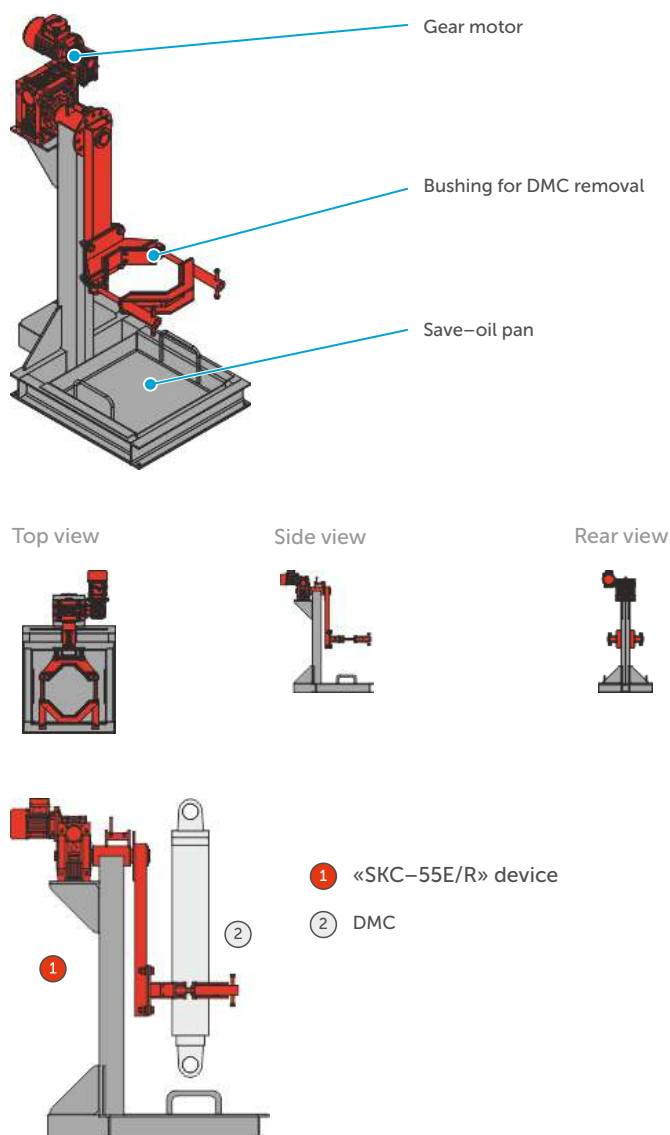
EAC Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»

> SKC

Rotating Jig for Assembly/Disassembly of Dumping Mechanism Cylinders and Suspension of Mine Dump Trucks

- + 2 types of drives
- + Ease of installation
- + Easy modification





Description

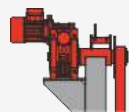
«SKC-55E/R» is intended for maintenance and repair of dumping mechanism cylinder (DMC), rear and front suspensions of «BelAZ» and «CAT» mine dump trucks.

Carrying Capacity of Serviceable Machinery and Its Applicability to Suspensions and DMC



	SKC-55E/R	SKC-360B	SKC-360C
	от 30 до 55 t	от 90 до 360 t	от 90 до 360 t
Front	BelAZ	BelAZ/CAT	BelAZ
DMC	BelAZ/CAT	BelAZ/CAT	BelAZ
Rear	BelAZ/CAT	BelAZ/CAT	BelAZ

Types of Drives



SKC-55E



SKC-55R

☒ Electrical (SKC-55E)

☒ Manual (SKC-55R)

Technical Specifications

Model	SKC-55E	SKC-55R
Intake power, kW	0,75	Manual
Voltage, V	380	–
Dimensions (l x b x h)	836 x 550 x 1109	
Weight, kg	128	
Save-oil pan	✓	✓

Standard Scope of Supply

«SKC-55E/R» device



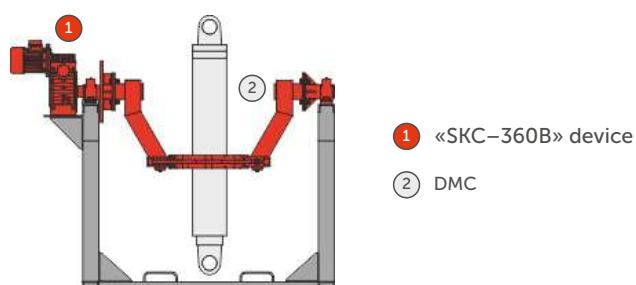
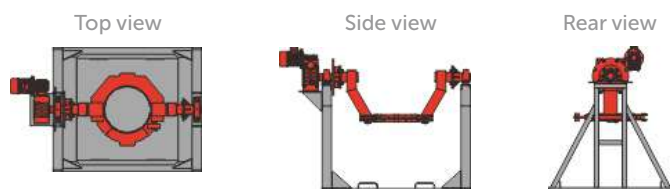
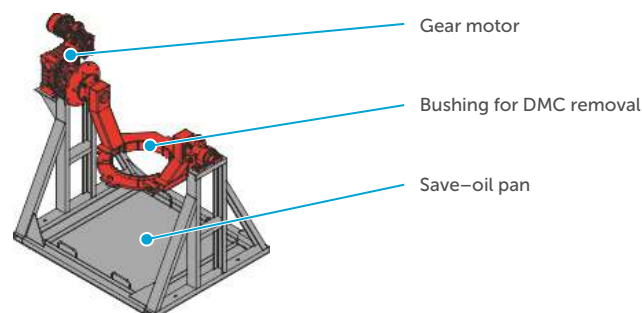
Documents



Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»



Mandatory equipment according to the Federal Law No.116-FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)



Bushings for Removal of DMC, Rear and Front Suspensions of «BelAZ», «CAT» Mine Dump Trucks



Description

«SKC-360B» is intended for maintenance and repair of dumping mechanism cylinder (DMC), rear and front suspensions of «BelAZ» mine dump trucks, DMC and rear suspension of «CAT» mine dump trucks.

Carrying Capacity of Serviceable Machinery and Its Applicability to Suspensions and DMC

	SKC-55E/R	SKC-360B	SKC-360C
	от 30 до 55 t	от 90 до 360 t	от 90 до 360 t
Front	BelAZ	BelAZ/CAT	BelAZ
DMC	BelAZ/CAT	BelAZ/CAT	BelAZ
Rear	BelAZ/CAT	BelAZ/CAT	BelAZ

Technical Specifications

Model	SKC-360B
Intake power, kW	0,75
Voltage, V	380
Dimensions (l x b x h)	1385 x 1015 x 1540
Weight, kg	540
Save-oil pan	✓

Standard Scope of Supply

«SKC-360B» device



Bushings with various diameters for «SKC-360B»



Documents

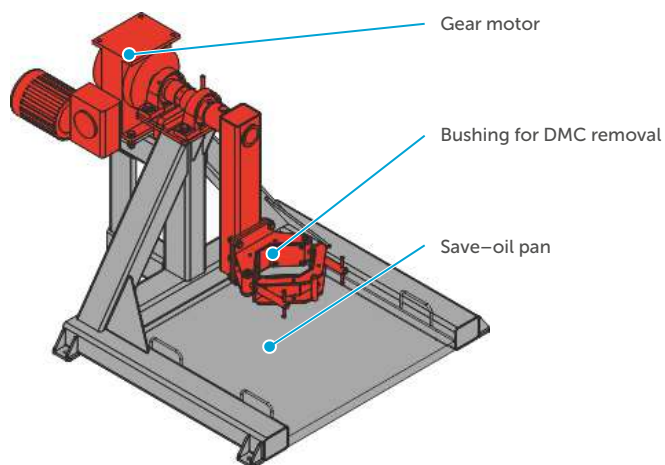


Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»



Mandatory equipment according to the Federal Law No.116-FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)

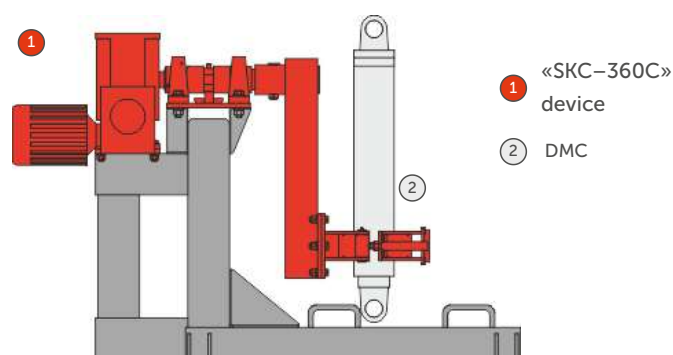
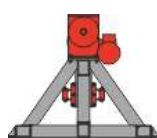
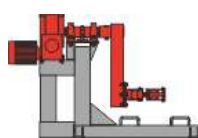
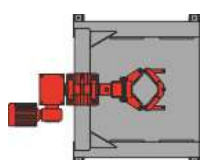




Top view

Side view

Rear view



Description

«SKC-360C» is intended for maintenance and repair of dumping mechanism cylinder (DMC), rear and front suspensions of «BelAZ» and «CAT» mine dump trucks.

Carrying Capacity of Serviceable Machinery and Its Applicability to Suspensions and DMC

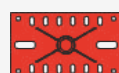


	SKC-55E/R	SKC-360B	SKC-360C
	от 30 до 55 t	от 90 до 360 t	от 90 до 360 t
Front	BelAZ	BelAZ/CAT	BelAZ
DMC	BelAZ/CAT	BelAZ/CAT	BelAZ
Rear	BelAZ/CAT	BelAZ/CAT	BelAZ

Technical Specifications

Model	SKC-360C
Intake power, kW	0,75
Voltage, V	380
Dimensions (l x b x h)	1720 x 1210 x 2200
Weight, kg	640
Save-oil pan	✓

Additional Equipment



Transition slab for front suspension of «CAT» 773, 777 mine dump trucks
✓ **Included**



Wedges for removal of suspension and DMC of «BelAZ» mine dump trucks
✓ **Included**

Rear suspension and DMC of «CAT» mine dump trucks
✓ **Included**

A — 90–130 tons B — 240–360 tons

Standard Scope of Supply



«SKC-360C» device



Transition slab for «CAT» front suspension



2 wedges for removal of front, rear suspensions and DMC of «BelAZ»; front suspension and DMC of «CAT»

Documents



Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»



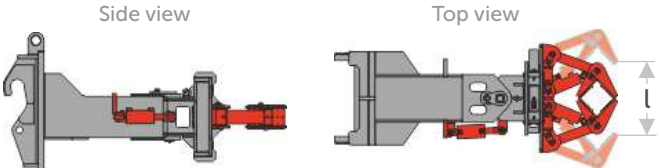
Mandatory equipment according to the Federal Law No.116-FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)

> PSGD

Device for Removal/Installation of Quarry Machinery Hydraulic Cylinder

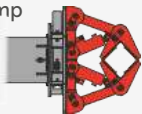
- + High carrying capacity
- + Mobility
- + Smoothness





Socket set

Hydraulic clamp
(PSGD-1)

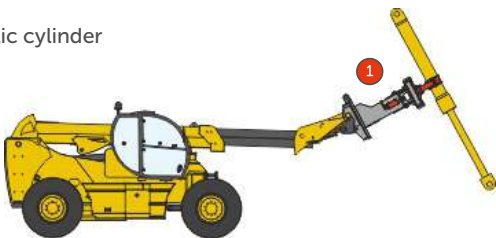


Rope clamp
(PSGD-1R)



It is possible to install 2 types of sockets. For more details
contact your manager

- 1 «PSGD-1/1R» device
- 2 Hydraulic cylinder



Description

«PSGD-1» multipurpose clamping device is intended
for gripping, removal, installation and movement of
suspension and DMC hydraulic cylinders.

Installation on other Types of Machinery

	Forklift ✗ Impossible		Telescopic handler ✓ Included
	Frontal loader ✗ Impossible		Self-propelled unit ✗ Impossible

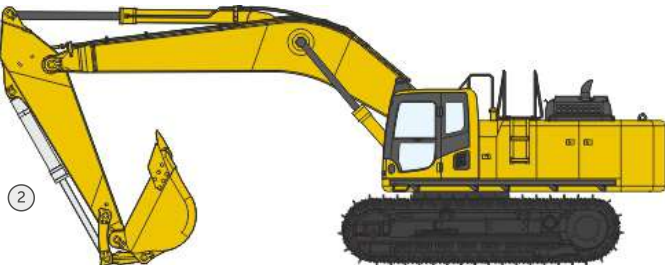
Machinery to be Serviced



∞ All types of quarry machinery

Technical Specifications

Model	PSGD-1/PSGD-1R
Carrying capacity, kg	2000
Grip diameter, mm	210–520
Rotation angle, degrees	360
Angle of turn, degrees	+/- 10
Displacement	+/- 150
Grip width l, mm	570



Standard Scope of Supply



«PSGD-1/1R» device with hydraulic socket

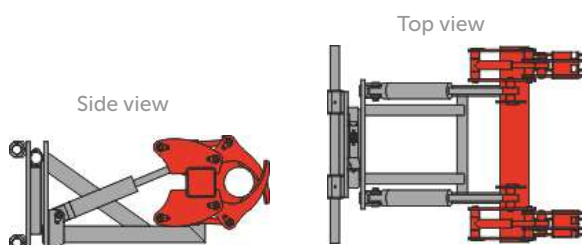
Documents



Certificate or declaration of the technical regulation of the
Customs Union «On safety of machinery and equipment»



Mandatory equipment according to the Federal Law No.116-FZ
«On industrial safety of hazardous production facilities»
dated July 21, 1997 (as amended on March 04, 2013)



Features

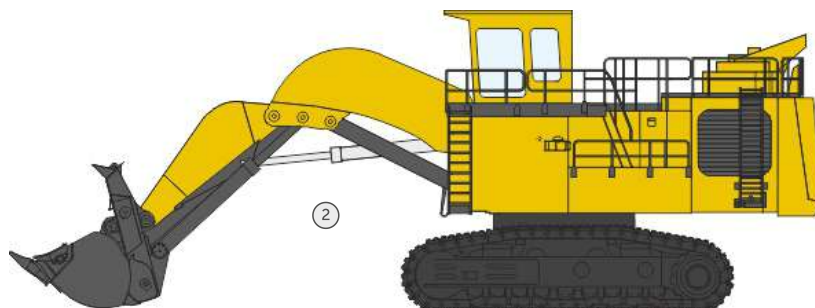
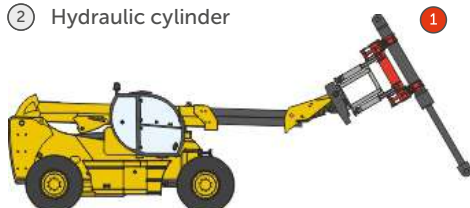
- ✓ Equipment can be installed in a completely safe way.
- ✓ Intuitive operation by smooth movements of the device.
- ✓ Complete simulation of the human wrist movements.

Technical Specifications

Model	PSGD-2
Carrying capacity, kg	2000
Grip diameter, mm	230–640
Grip diameter, mm	340
Rotation angle, degrees	90
Angle of turn, degrees	+/- 300
Weight, kg	1850

1 «PSGD-2» device

2 Hydraulic cylinder



Standard Scope of Supply

«PSGD-2» device



Description

«PSGD-2» cylinder handler is an attachment installed on a telescopic loader for the safest and most efficient performance of works on removal, installation and movement of hydraulic cylinders of mining excavators.

The handler is a quick-detachable attachment that is installed and fixed to the loader boom using standard mounting holes designed for the fork carriage or bucket. The hydraulic system of handler is connected to the loader system via high-pressure hoses with the quick release connectors to free hydraulic valves

Installation on other Types of Machinery

	Forklift		Telescopic handler
✗ Impossible		✓ Included	
	Frontal loader		Self-propelled unit
✗ Impossible		✗ Impossible	

Machinery to be Serviced

	∞ All types of mining excavators
--	----------------------------------

Documents

EAC Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»

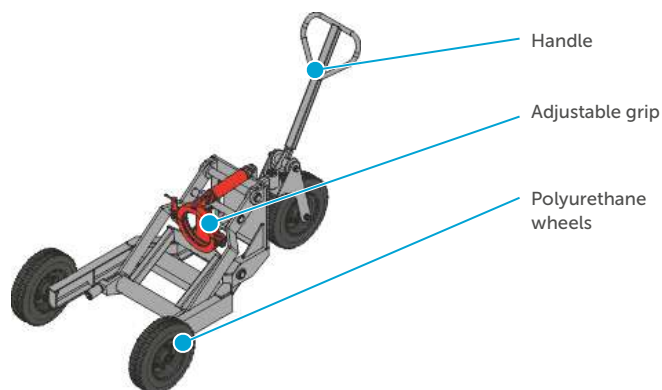
Mandatory equipment according to the Federal Law No.116–FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)

> PGP

Device for Disassembly of Main Transmission Gearbox (Rear Axle) of BelAZ Mine Dump Trucks

- + Maneuverability
- + Adjustable grips
- + Cross-country wheels

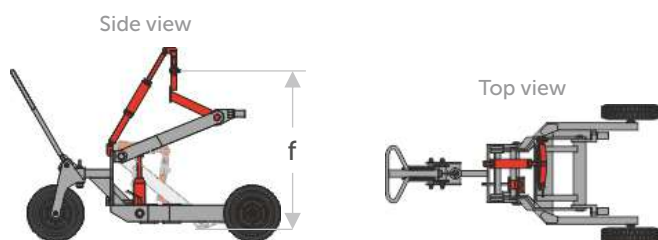




Description

The mechanized device is designed for dismantling and moving main transmission gearbox (rear axle) of «BelAZ» 7540, 7545, 7547, 7555 mine dump trucks of various modifications.

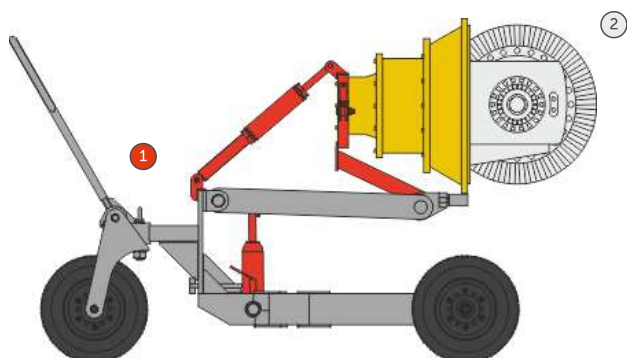
Prior to dismantling of main transmission gearbox (rear axle), the device is rolled up to the rear axle of mine dump truck using a built-in hydraulic jack, the gripper is brought to main transmission gearbox and fixed with a gripping collet. The fixed gearbox is disconnected from the rear axle and transported to the rotating jig for subsequent repair.



Machinery to be Serviced



∞ All types of mine dump trucks of 30–55 tons



① «PGP» device

② Transfer gear box of the rear axle

Technical Specifications

Model	PGP–45	PGP–55
Carrying capacity of the device, kg	600	650
List of serviceable machinery	BelAZ 7540; BelAZ 7545; BelAZ 7547	BelAZ 7555
Dimensions (l x b x h), mm	1790 x 940 x 1055	1646 x 982 x 1000
Maximum grip height f, mm	1010	1225
Weight, kg	226	245

Standard Scope of Supply

«PGP» device



Documents



Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»



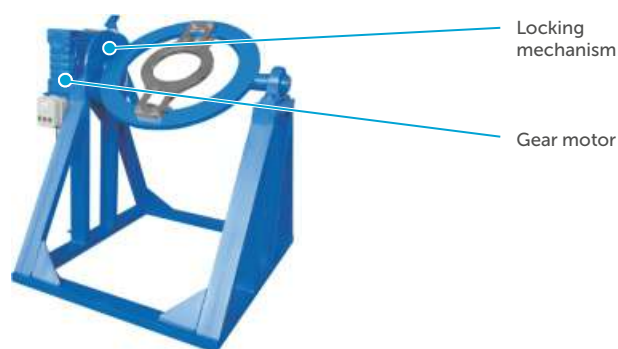
Mandatory equipment according to the Federal Law No.116–FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)

> **SKGM**

Tilting Engine Stand for Assembly/Disassembly of Main Transmission Differential of BelAZ Mine Dump Trucks

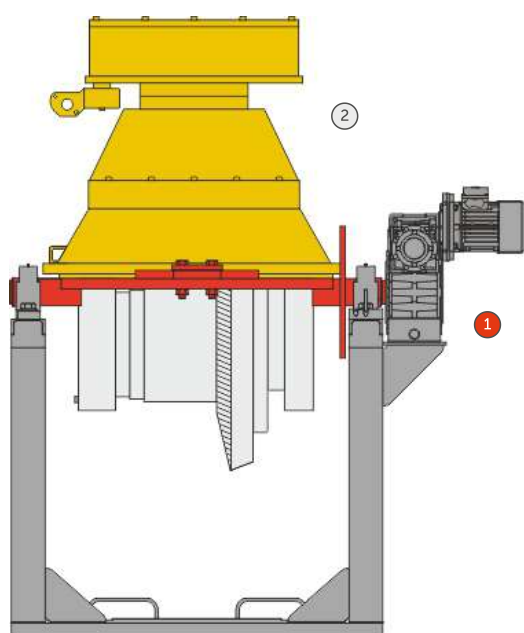
- + Manual or electrical drive
- + Ease of operation
- + Save-oil pan





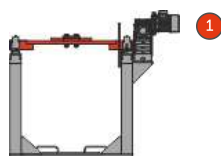
1 «SKGP» tilting engine stand

2 Main transmission gearbox of the rear axle



Standard Scope of Supply

«SKGP» rotating jig



Description

The stand is intended for facilitating service maintenance and repair of main transmission (rear axle) of «BelAZ» 7540, 7545, 7547, 7555 mine dump trucks of various modifications.

Features

- ✓ The motor with manual and electrical drive allows fixed gearbox to be rotated 360° thus greatly facilitating disassembly and assembly works.
- ✓ Availability of a locking mechanism allows the safest and most efficient repair of main transmission gearbox.
- ✓ The stand base includes holes for fastening with the anchor bolts for permanent installation in the required place.

Machinery to be serviced



∞ All types of mine dump trucks

Technical Specifications

Model	SKGP-55R	SKGP-55E
Version	Fixed	
List of serviceable machinery	BelAZ 7540 BelAZ 7545 BelAZ 7547 BelAZ 7555	
Rotary drive	Manual	Electrical
Intake power, kW	–	0,75
Voltage, V	–	380
Dimensions (l x b x h), mm	1230 x 1550 x 1170	1230 x 1550 x 1320
Weight, kg	305	315
Save-oil pan	✓	✓

Documents



Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»



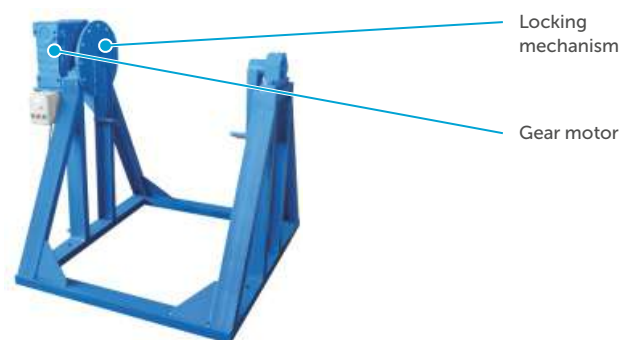
Mandatory equipment according to the Federal Law No.116-FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)

> SKGM

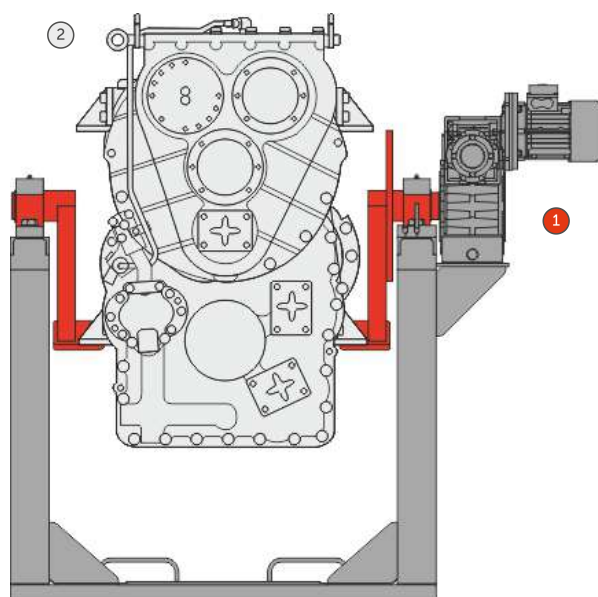
Tilting Engine Stand for Assembly/Disassembly of Hydromechanical Transmissions of BelAZ Mine Dump Trucks

- + Electrical drive
- + Ease of operation
- + Save-oil pan





- 1 «SKGM» rotating jig
2 Hydromechanical transmission



Description

The stand is intended for facilitating service maintenance and repair of hydromechanical transmissions (HMT) 3+1, 5+2, 6+1 of «BelAZ» 7540, 7545, 7547, 7555 mine dump trucks of various modifications.

Features

- ✓ The gearbox with manual and electrical drive allows fixed HMT to be rotated 360°, thus greatly facilitating repair and maintenance works on the rear axle gear.
- ✓ Availability of a locking mechanism allows the safest and most efficient repair of main transmission gearbox.
- ✓ The stand base includes holes for fastening with the anchor bolts for permanent installation in the required place.

Machinery to be Serviced



∞ All types of mine dump trucks of 30–55 tons

Technical Specifications

Model	SKGM–55E
Version	Fixed
List of serviceable machinery	BelAZ 7540, BelAZ 7545, BelAZ 7547, BelAZ 7555
Rotary drive	Electrical
Intake power, kW	0,75
Voltage, V	380
Dimensions (l x b x h), mm	1550 x 720 x 1030
Weight, kg	325
Save–oil pan	✓

Standard Scope of Supply

«SKGM–55» rotating jig



Documents



Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»

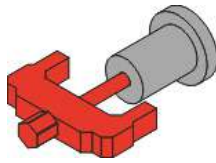


Mandatory equipment according to the Federal Law No.116–FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)

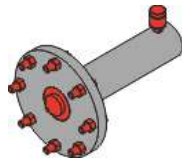
Model PSF



Model PRF



Model PSV



Machinery to be Serviced



∞ All types of mine dump trucks of 30–55 tons

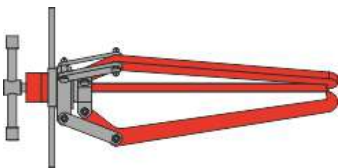
Description

The devices are designed for HMT assembly/disassembly including the following:

- ✓ Dismantling friction clutches of the change-speed gear and HMT input shaft;
- ✓ Assembly/disassembly of HMT friction clutches;
- ✓ Performance of repair and maintenance works with the press-fit parts.

Device for Removal of HMT Friction Clutches

Side view



Top view

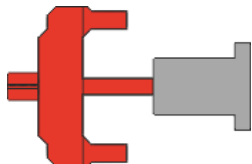


Technical Specifications

Model	PSF-55
Strain, tf	10
Grip range, mm	50–900
Maximum grip depth, mm	870
Weight, kg	90
Drive	Hydraulic

Device for Assembling and Disassembling of HMT Friction Clutches

Side view



Top view

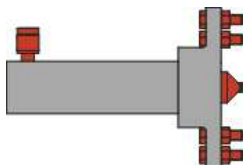


Technical Specifications

Model	PRF-55
Strain, tf	2
Weight, kg	6
Drive	Mechanical

Device for Removing HMT Input Shaft

Side view



Top view



Technical Specifications

Model	PSV-55
Strain, tf	30
Weight, kg	39,3
Drive	Hydraulic

Standard Scope of Supply

«PSF/PRF/PSV» device



Manual pump «NRG-1»,
high-pressure hose 3 m with QRC
for «PSF» and «PSV» models



→ For more details see page 105.

Documents

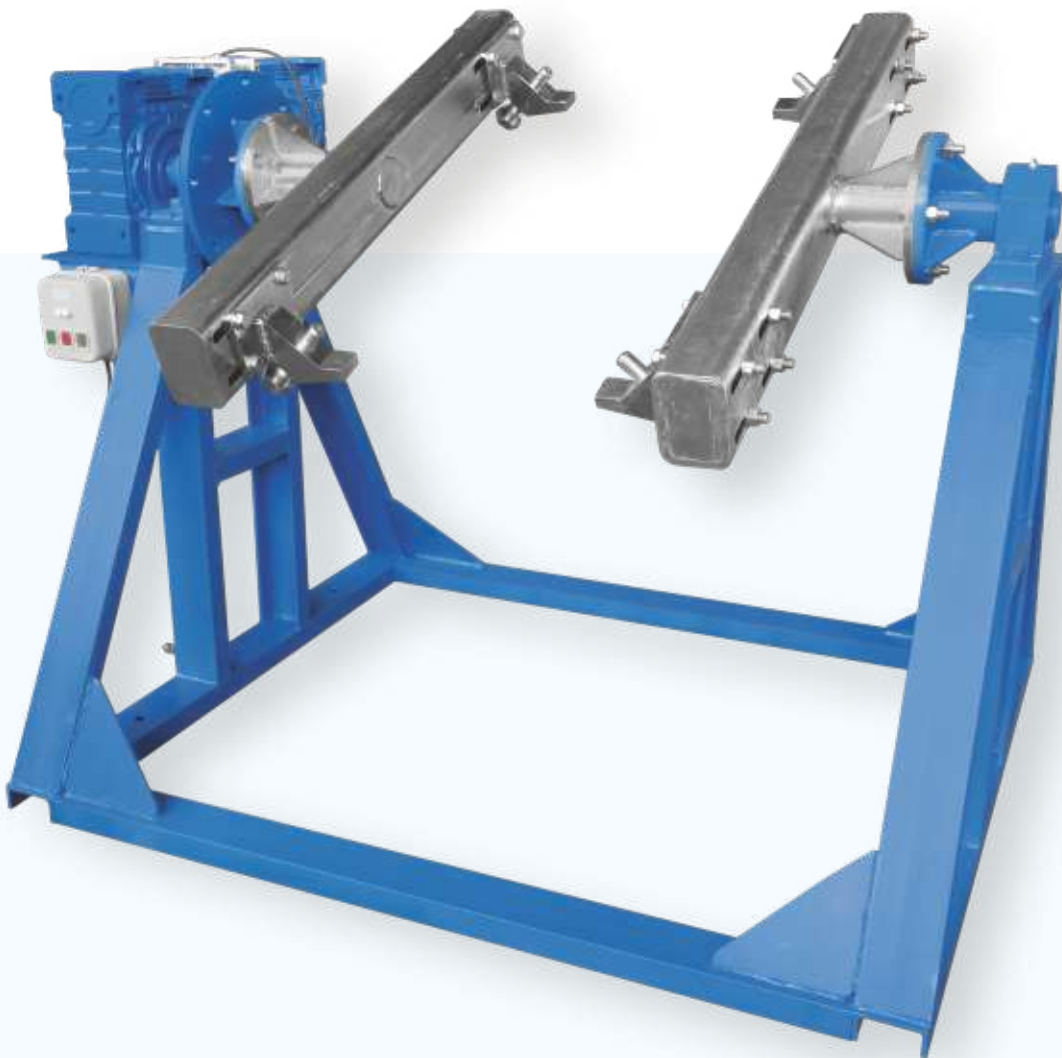


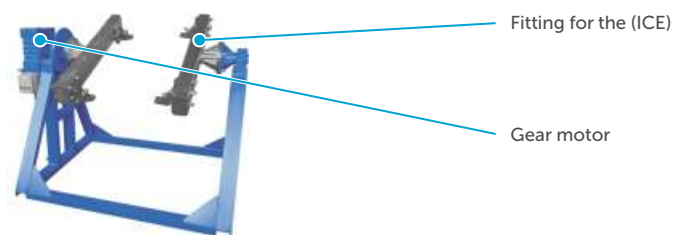
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Customs Union «On safety of machinery and equipment»

> SKDV

Tilting Engine Stand for Assembly/Disassembly of the Internal Combustion Engine (ICE)

- + Electrical drive
- + Ease of operation
- + Save-oil pan



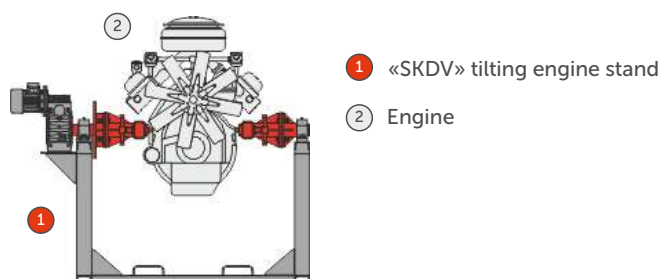
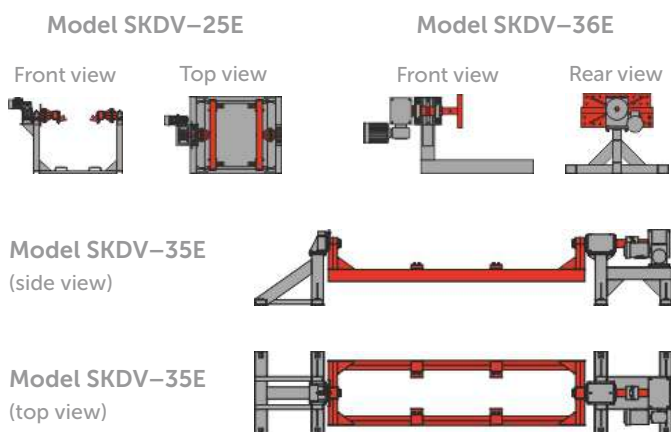


Description

The stand is intended for assembly/disassembly of the engine of mine dump trucks and frontal loaders during the overhaul.

Features

- ✓ The stands are made in a stationary design with horizontal rotary frame with attachments for the internal combustion engine.
- ✓ The rotary frame is rotated by gearboxes that in turn are driven by a heavy-duty electric motor.
- ✓ The rotary frame is fixed by locking pins in 12 possible positions for specific works at an angle in the range of 180°.
- ✓ The stand base includes holes for fastening with the anchor bolts for permanent installation in the required place.



Machinery to be serviced

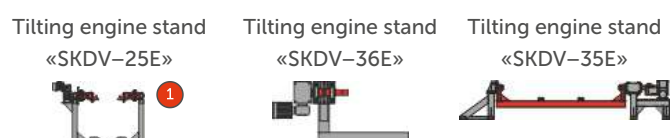


∞ All types of mine dump trucks

Technical Specifications

Model	SKDV-25E	SKDV-35E	SKDV-36E	SKDV-40E	SKDV-50E	SKDV-50E+
Engine type/model	KTTA-19 QSK-19 ЯМЗ-240	MTU-12V	Multipurpose	SAA12V140	KTTA-50 QSK-50	KTTA-38 KTTA-50 QSK-50 SAA12V140E-3
Carrying capacity, kg	2500	6500	3600	3500	6500	6500
Type of equipment	Fixed type with the openings for anchorage					
Weight, kg	736	1700	520	1800	2200	2200
Save-oil pan	✓	✓	✓	✓	✓	✓
Engine position fixation						
Mechanical	✓	✓	✓	✓	✓	✓
Electrical	This option is installed at request					

Standard Scope of Supply



Documents



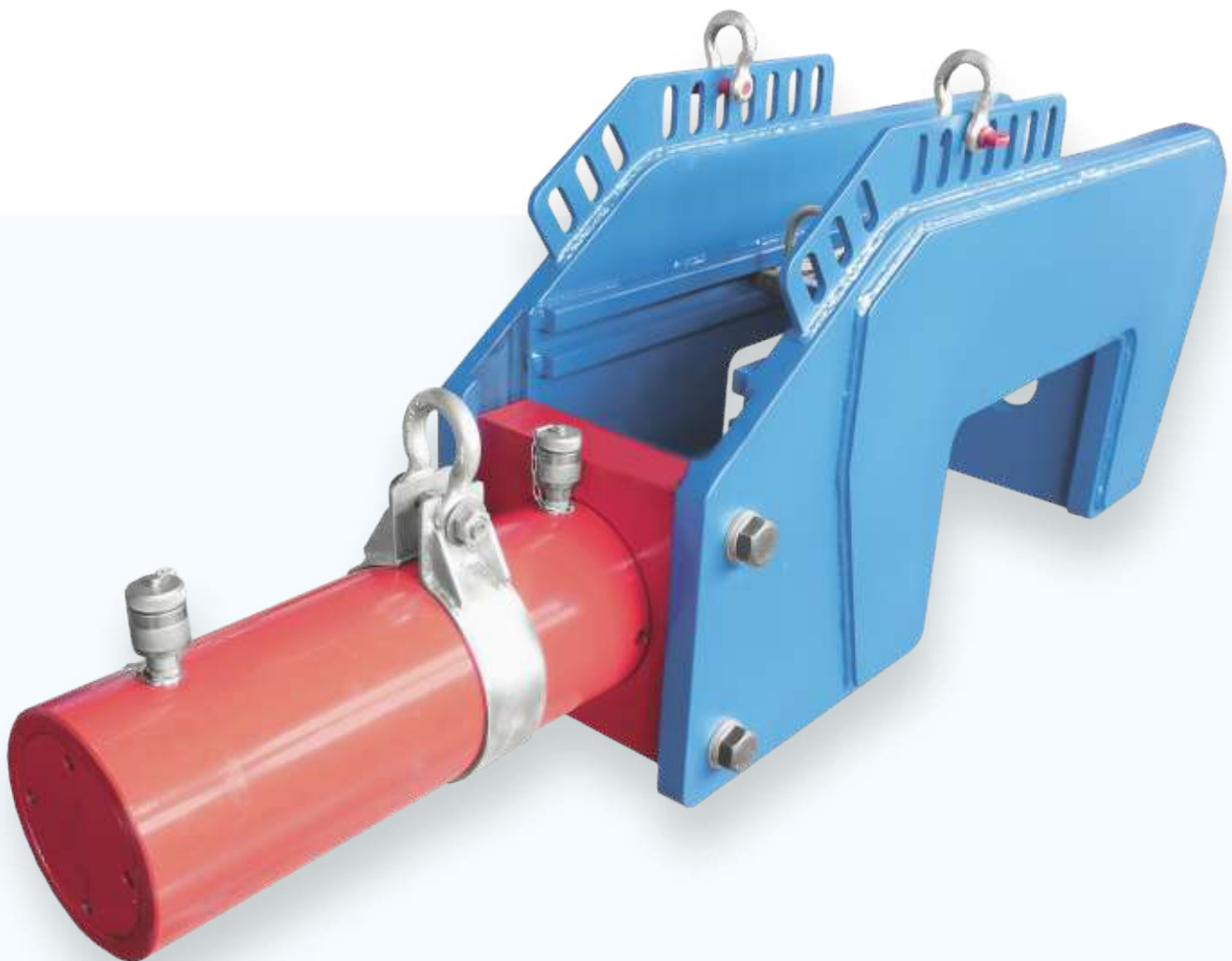
Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»

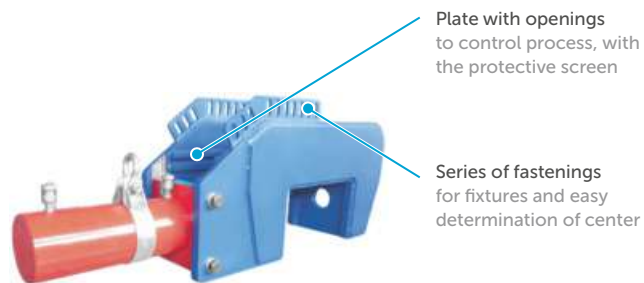


Mandatory equipment according to the Federal Law No.116-FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)

> **VPTC–C** **C–Shaped Track Pin Ejector**

- + Quick installation
- + Portability
- + Changeable pins and bushings





For the order it is necessary to be aware of the list of serviceable tracked vehicles

Description

The range of this track ejector includes three models with a strain of 50, 100 and 150 tons that allows to select optimal model for maintenance of the existing track-type equipment. It is the safest and most effective way to maintain and repair undercarriage of the track machines both in the repair workshop and in the field.

The press is equipped with a hydraulic cylinder with a spring or hydraulic return that can be deployed inside the press structure for portability and ease of transportation.

Machinery to be Serviced



All types of track machines and equipment

Technical Specifications

Model	VPTC-50C	VPTC-100C	VPTC-150C
Strain, tf	50	100	150
Type of equipment	Mobile	Mobile	Mobile
Dimensions (l x b x h), mm	1370 x 300 x 400	1450 x 320 x 420	1620 x 410 x 490
Weight, kg	215	355	485
Rod stroke, mm	150	300	300
Bracket size e, mm	250	400	400
Possible operation of the manual pump	✓	✓	✓

- 1 «VPTC-C» device
- 2 Track chain
- 3 «PST» oil-pumping station
- 4 «DPAT» roller jack
- 5 «TPM/TPG/TMPV» stands

Standard Scope of Supply

«VPTC-C» device

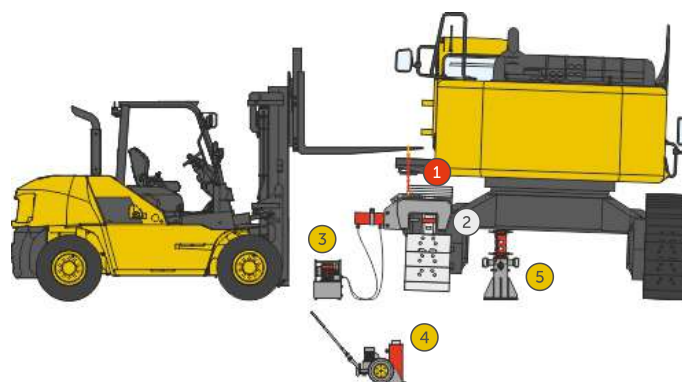


Pins and bushings for your machinery



Oil-pumping station «PST»
or manual pump «NRG-8»

→ For recommended additional equipment see pages 11–15, 19–23, 106, 106 and 108.



Documents



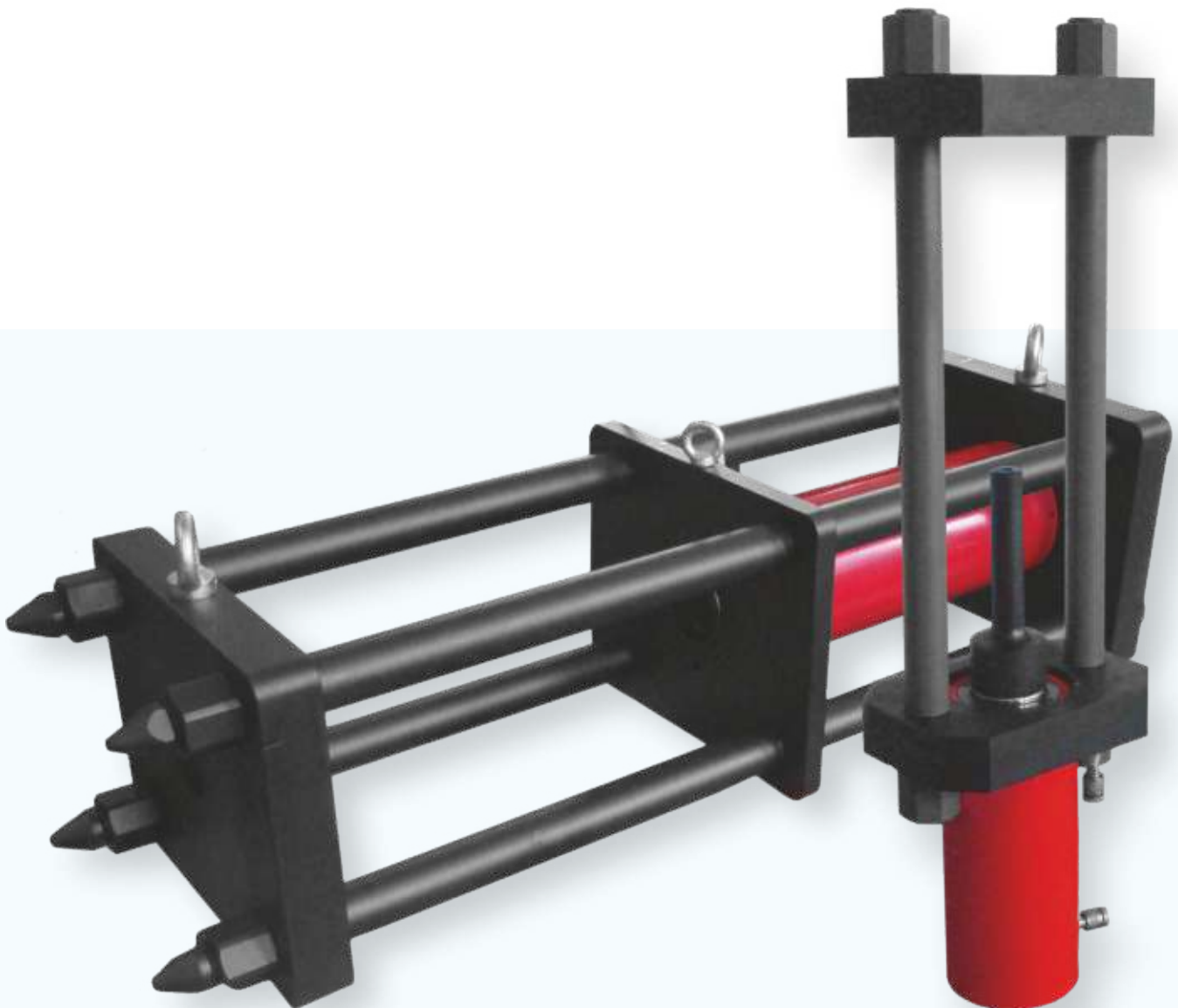
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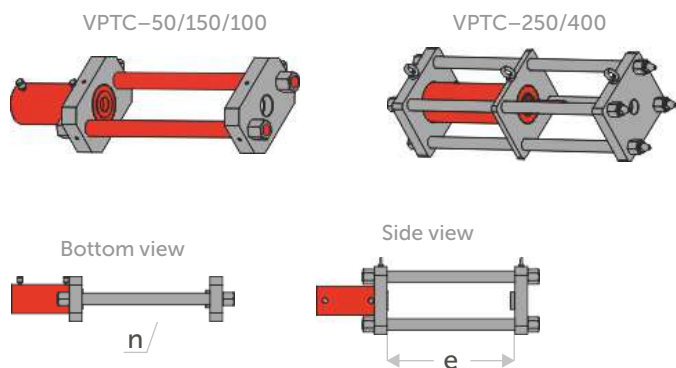


Mandatory equipment according to the Federal Law No.116-FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)

> VPTC Track Pin Ejector

- + Versatility
- + Changeable pins and bushings





For the order it is necessary to be aware of the list of serviceable tracked vehicles

Description

Specialized equipment for replacing the worn pins, bushings, seals of tracked vehicles with a strain of 50, 100, 150, 250, 400 tons. It reduces labor intensity of the process without mechanical damage to the assemblies and parts, without use of welding gas-cutting machines. The equipment can also be used as a press for pressing/extrusion of parts with the press-fit connections.

Machinery to be Serviced



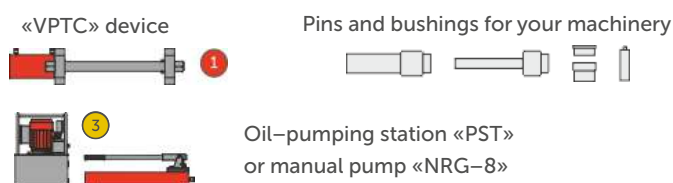
∞ All types of track machines and equipment

Technical Specifications

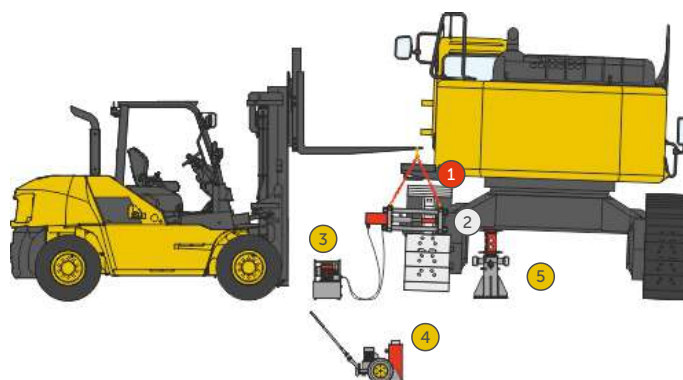
Model	VPTC-50	VPTC-100	VPTC-150	VPTC-250	VPTC-400
Strain, tf	50	100	150	250	400
Type of equipment	Mobile	Mobile	Mobile	Mobile	Mobile
Dimensions (l x b x h), mm	176 x 964 x 384	340 x 1015 x 460	360 x 1050 x 500	500 x 2000 x 600	—
Weight, kg	85	160	290	1100	485
Rod stroke, mm	150	300	300	500	500
Working area e, mm	400	800	800	800	800
Number of supports, n	2	2	2	4	4
Possible operation of manual pump	✓	✓	✓	✓	✓

- 1 «VPTC» device
- 2 Track chain
- 3 «PST» oil-pumping station
- 4 «DPAT» roller jack
- 5 «TPM/TPG/TMPV» stands

Standard Scope of Supply



→ For recommended additional equipment see pages 11–15, 19–23, 106, 106 and 108.



Documents



Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»



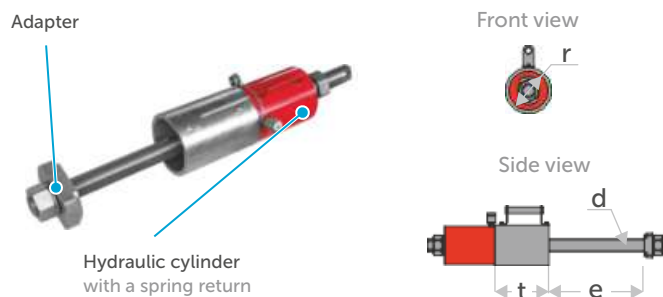
Mandatory equipment according to the Federal Law No.116–FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)

> PVZ

Device for Removal/Installation of Bushings

- + Light weight
- + Strain 30/50 tons
- + Customization



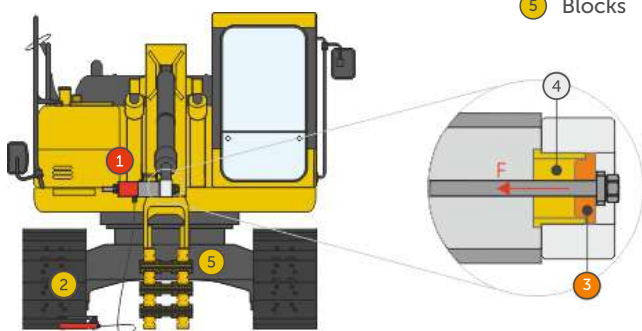


You can order the bushing puller with any required dimensions

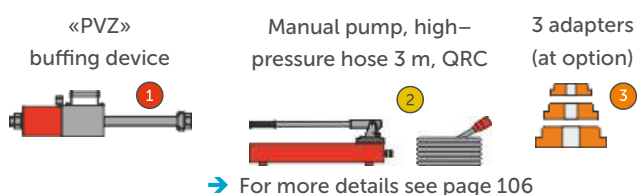
Technical Specifications

Model	PVZ-30	PVZ-50
Traction power, t	30	50
Bushing range for buffing	30–90	60–126
One-time rod stroke, mm	63	75
Operating pressure, MPa	70	70
Weight of housing with the stud, kg	25	63
Changeable parameters		
Stud diameter d, mm	30	52
Total stud length, mm	1000	1200
Inner diameter of support bush r, mm	140	225
Depth of support bush t, mm	150	200
Length of operating part e, mm	560	600

- 1 «PVZ» buffing device
- 3 Adapter
- 2 Manual pump
- 4 Bushing
- 5 Blocks



Standard Scope of Delivery



→ For recommended additional equipment and documents see page 94.

Description

The mobile hydraulic bushing puller is designed for removing bushings of a handle, boom and other plugged holes in the road, construction and mining equipment. Light weight of the ejector allows to operate it without any auxiliary lifting devices, it can also be used for repairs in the field.

A manual pump with a high-pressure hose has a standard length of 3 meters; at request, it is possible to supply an extended high-pressure hose and manufacture the ejector according to the individual parameters.

Machinery to be Serviced



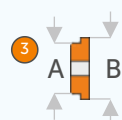
∞ All types of track machines and equipment

Adapters

Model	A, mm	B, mm	Ø Diameter, mm
PVZ-PLATE-60	59	70	60
PVZ-PLATE-65	64	75	65
PVZ-PLATE-75	74	85	75
PVZ-PLATE-80	79	91	80
PVZ-PLATE-85	84	96	85
PVZ-PLATE-90	89	102	90
PVZ-PLATE-95	94	107	95
PVZ-PLATE-100	99	112	100
PVZ-PLATE-110	108	126	110
PVZ-PLATE-120	119	137	120
PVZ-PLATE-130	129	150	130
PVZ-PLATE-140	139	160	140
PVZ-PLATE-150	149	170	150
PVZ-PLATE-160	159	185	160
PVZ-PLATE-170	169	195	170
PVZ-PLATE-180	179	195	180
PVZ-PLATE-190	189	205	190
PVZ-PLATE-200	199	225	200

Adapter according to your dimensions

PVZ-PLATE-xx-xx xx xx — adapter dimensions in mm



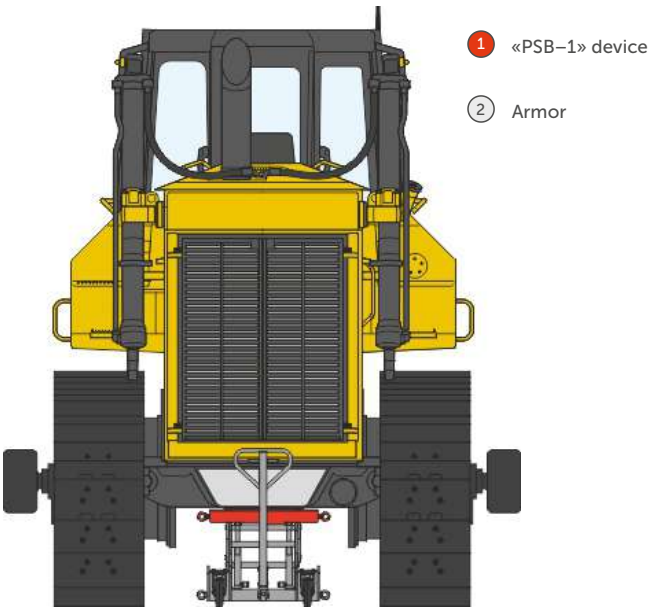
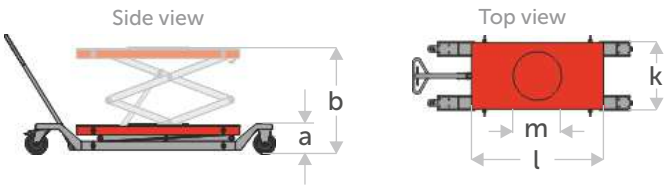
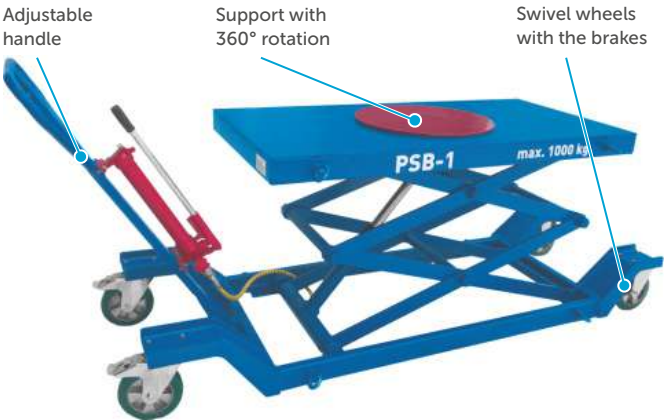
If you do not find the adequate adapter in the table, then you can order the adapters with your dimensions. For this purpose you need to be aware of the bushing dimensions.

> PSB

Device for Removal/Installation of Bulldozer Armor

- + High carrying capacity
- + Mobility
- + Smoothness





Recommended Additional Equipment

 Track pin ejector is a specialized equipment for replacement of the worn pins, bushings, packings of tracked vehicles
➔ For details see pages 87–90.

 «LB» modular system for hanged item fixation represents the plastic foot blocks intended for provision of stability of heavy items after its lifting. The unique laying and blocking system allows to quickly make the support structure for any item at any height.

Description

The device is designed to mechanize labor-intensive processes and improve safety when removing and installing the bulldozer armor. It reduces downtime and ensures safe operation. It has a 360° rotating table for precise armor positioning. Easily operated by one person. The low-profile base frame allows for removal/installation of engine and crankcase protection without first jacking up and display of the machine.

Machinery to be Serviced



Technical Specifications

Model	PSB-1
Carrying capacity, kg	1000
Minimum platform height a, mm	280
Maximum platform height b, mm	980
Platform dimensions k x l, mm	750 x 1500
Support diameter m, mm	550
Support rotation, degrees	360°
Manual pump	✓
Wheel diameter, mm	200
Dimensions	775 x 2500
Weight, kg	400

Standard Scope of Supply



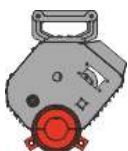
Documents

 Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»

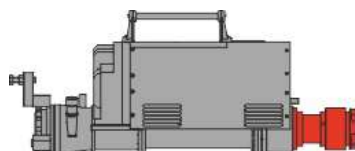
 Mandatory equipment according to the Federal Law No.116–FZ «On industrial safety of hazardous production facilities» dated July 21, 1997 (as amended on March 04, 2013)



Front view



Side view



Description

RFS is a high-end multifunctional equipment allowing to perform line boring and restore parallel holes and parts in the range of 22–600 mm.

Scope of Application

- ✓ Repair of parallel holes;
- ✓ Cross-cutting of weldolets and bosses ;
- ✓ Grooving for expanding lock-o-rings;
- ✓ Drilling, tapping;
- ✓ Restoration of the cylinder block;
- ✓ Internal and external weld facing;
- ✓ External machining ;
- ✓ Restoration of the cylinder block;

Technical Specifications

Model	RFS–4		RFS–6
Drilling rod diameter, mm	Ø 20	Ø 40	Ø60
Drilling rod length, mm	2000	1800+2200	2,0+2,0+1,0
Inner boring, mm	Ø 42–Ø 400		Ø62–Ø600
Inner weld facing, mm	Ø 42–Ø 400		Ø62–Ø600
Machining parameters			
Drilling rod rotation speed, rpm	0–450		0–300
Drilling rod feed, mm/rev	0–0,5		0–0,5
Continuous feed, mm	250		300
Shaping depth	∞		∞
Machining accuracy, mm/tolerance band	0,01/H7		0,01/H7
Maximum drilling rod feed, mm/rev	60		60
General			
Maximum intake power, W	3000		2500
Temperature mode, °C	-30 до +40		-30 до +40
Voltage, V	220		220
Weight, kg	46		50
Rotary/feeding drive, W	2000/170–300		2000/300

Standard Scope of Supply



«RFS» device



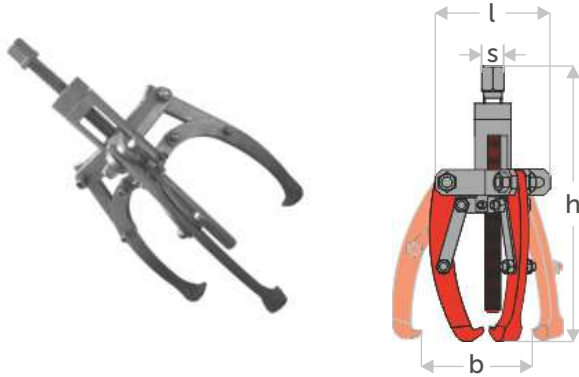
Brief description of the operating process of the bore repair system
[→ www.stmining.ru/info/articles/...](http://www.stmining.ru/info/articles/...)

Documents



Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»

Mechanical Puller



Description

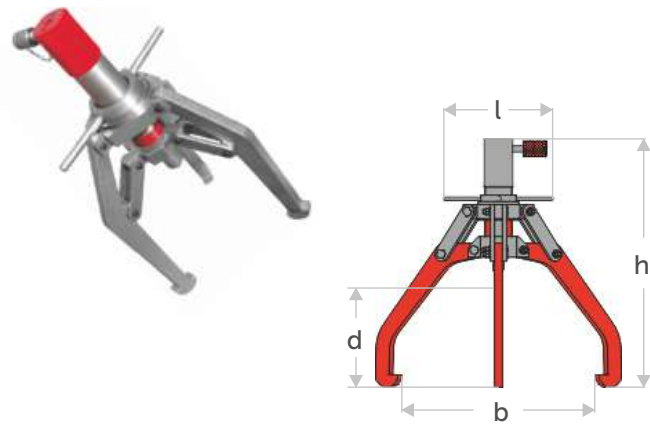
The pullers with screw drive unit are designed for disassembly and dismantling of press-fit equipment components in a confined space

- ✓ It has 2 versions: double-handed units for work in a confined space; triple-handed units to ensure a secure grip;
- ✓ It is made of light-alloy metals, due to which the puller design has light weight and small overall dimensions.

Technical Specifications

Model	Number of grips	Strain, tf	Outer grip diameter b, mm	Grip depth	Width across flats, s	Dimensions (l x h), mm	Weight, kg
PM-2	2/3	1,3/2	30–120	80	19	80 x 240	1,5
PM-5	2/3	3,3/5	45–270	160	24	150 x 350	4,5
PM-10	2/3	6,6/10	60–380	250	30	210 x 475	9,4

Hydraulic Puller



Description

The hydraulic pullers are designed for dismantling of various press-fit parts and assemblies.

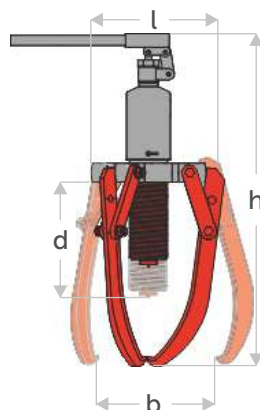
- ✓ External hydraulic drive ensures maximum safety during operation, the grippers are fixed in the entire range of operating diameters.
- ✓ «SGC3-15/250» model has hooks on both sides of grippers that allows to remove parts beyond the outer or inner diameter.

Technical specifications

Model	Number of grips	Strain, tf	Outer grip diameter b, mm	Grip depth	Rod stroke d, mm	Dimensions (l x h), mm	Weight, kg
SGC-5/100	2/3	5	20–180	167	100	263 x 412	5,6
SGC-15/250	2/3	15	35–380	245	250	335 x 700	21,3
SGC-20/360	3	20	56–450	302	360	330 x 874	36

➔ For the scope of supply and documents see page 99.

Built-in Drive Puller



Description

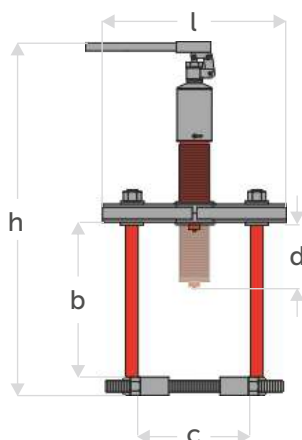
Built-in drive multifunctional pullers provide ability to apply traction force to the inner bearing ring — the load is not transmitted through rolling bodies that minimizes the risk of bearing damage.

- ✓ Built-in pump with the removable, foldable 360° rotatable handle.
- ✓ It has a spring return of the stem, as well as a built-in safety valve in the inner cavity of the puller power element for overload protection.
- ✓ The parts have anti-corrosion coating.
- ✓ There are two assembly options: double-handed unit for confined spaces and triple-handed unit.

Technical Specifications

Model	Number of grips	Strain, tf	Outer grip diameter b, mm	Grip depth	Rod stroke d, mm	Dimensions (l x h), mm	Weight, kg
SGR-6/70	3/2	6/4	40–330	220	70	150x455	6,14
SGR-8/85	3/2	8/5	50–350	230	85	170x480	7,7
SGR-12/85	3/2	12/8	60–375	270	85	190x525	9,8
SGR-20/111	3/2	20/13	70–520	360	111	250x560	22,8
SGR-30/111	3/2	30/20	80–550	360	111	330x560	32,3

Built-in Drive Cross-Puller



Description

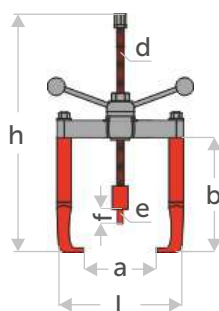
It has built-in safety valve in the inner cavity of the puller power element for overload protection, as well as the built-in pump with a removable 360° rotatable handle that allows to effectively perform works on dismantling of parts, has a spring return of the stem, the parts have an anti-corrosion coating.

Technical Specifications

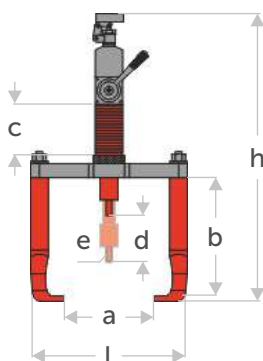
Model	Number of grips	Strain, tf	Outer grip diameter b, mm	Grip depth	Rod stroke d, mm	Dimensions (l x h), mm	Weight, kg
SHGR-6/70	6	220-330	255	70	280 x 505	16	
SHGR-8/85	8	230-350	255	85	280 x 505	17	
SHGR-12/85	12	310-375	298	85	350 x 575	22,4	

→ For the scope of supply and documents see page 99.

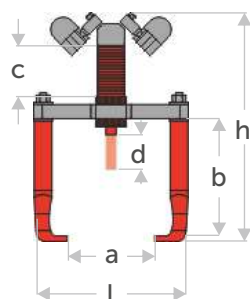
Model MD-6203



Model PDR-1208



Model PD-1208



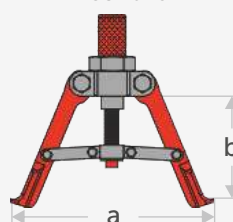
Description

The unique «three-in-one» design of press-fitting puller allows to use one tool for pressing-in of the parts, removal of parts (internal as well as external grip) quickly and safely. The press-fitting puller is perfect for mounting/dismounting of a wide variety of parts, including bushings, wheels, bearings, gears and rollers.

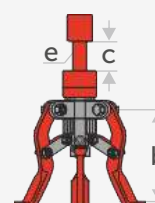
- ✓ The double-action pump module provides force both for pressing-in and for removal of the press-fit parts.
- ✓ The unique arm design allows without any dismantling and replacement to perform operations for removing and pressing-in parts, and the triple-handed design provides a reliable grip.
- ✓ The centering puller mechanism with an internal grip ensures even load distribution, eliminating the grip sliding from the removed part.
- ✓ The built-in safety valve ensures safe handling and protects working mechanisms from damage, thus extending the service life of the tool.

Type of Sockets

Socket for models
«PD-1208» and «PDR-1208»



Socket for model
«MD-6203»

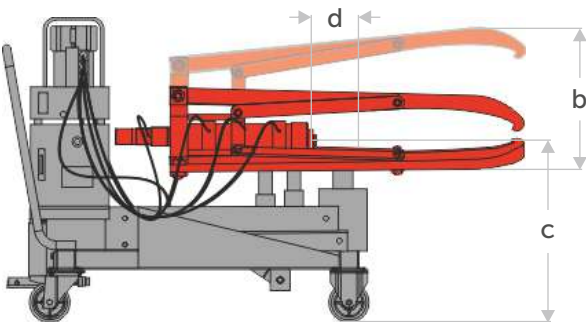


Technical Specifications

Model	Type of operation	Strain, tf	a, mm	b, mm	c, mm	d, mm	e, mm	f, mm	Weight, kg	Dimensions (l x h), mm
PD-1208	Pressing-in	8	44-280	270	140	28	M12 x P1.75	30	36	275 x 552
	Removal	12	85-300	260	140	28	—	—	—	
	(external grip)	8	90-245	130-150	—	—	1"-12 UNF	—	—	
PDR-1208	Pressing-in	8	4-280	270	140	28	M12 x P1.75	30	33,9	380 x 535
	Removal	12	85-300	260	140	28	—	—	—	
	(external grip)	8	90-245	130-150	—	—	1"-12UNF	—	—	
MD-6203	Pressing-in	8	70-206	240	720	3/4"-10UNC	M12xP1.75	30	12	275 x 330
	Removal	8	29-196	230	720	3/4"-10UNC	—	—	—	
	(external grip)	6	52-150	130-150	34	5/8"-10UNC	3/4"-10 UNC	—	—	

➔ For the scope of supply and documents see page 99.

Модель SGP-50



Description

The heavy-duty hydraulic pullers with high-strength steel grips are designed for dismantling of the large-size parts (up to 1219 mm in diameter).

- ✓ The wheeled frame with installed puller and pumping station is easily transported to the place of work.
- ✓ The lifting electric (for SGP-100 model) or hydraulic (for SGP-50 model) mechanism

The SGP-50 model is a self-centering puller with hydraulic rod return with the ability to quickly reinstall the grippers.

The SGP-100 model has a double-handed design and is equipped with a safety chain. Height adjustment of grippers is performed using a built-in electric motor.

Technical Specifications

Model	SGP-50	SGP-100
Number of grips	3	2
Strain, tf	50	100
Rod stroke d, mm	300	250
Grip diameter b, mm	100–1250	380–1220
Grip depth, mm	120–300	860–1060
Center height c, mm	545–1100	310–915
Motor power, kW	0,75	2,2
Voltage, V	380	380
Weight, kg	340	433

Recommended Additional Equipment



For «SGC» model: manual pump, high-pressure hose 3 m, QRC
 → For details see page 105

Standard Scope of Supply



«PM/SGC/SGR/SHGR/PD/ PDR/ MD/SGP» puller

Documents



Certificate or declaration of the technical regulation of the Customs Union «On safety of machinery and equipment»

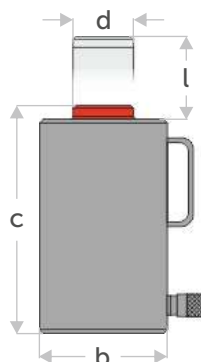
> **GS/AR/NRG**

Load Cylinders, Manual/Hydraulic Pumps with Manual and Pneumatic Drives

- + Mobility
- + Robust construction



Single-Action cylinder with Hollow Rod



Description

This model feature is a hollow rod that is used as a load-bearing element in various mechanical devices for tensioning reinforcement, ropes, lifting and moving of loads, etc.

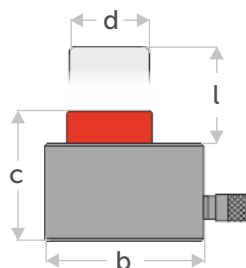
The cylinder can be used in any spatial position, it has a spring rod return.

Technical Specifications

Model	Strain, tf	Rod stroke l, mm	Oil cubic capacity, cm ³	Cylinder height c, mm	Outer cylinder diameter b, mm	Support diameter d, mm	Weight, kg
GCP-10/42	10	42	74	122	69	20	2,8
GCP-20/50	20	50	158,4	168	98	23	5
GCP-30/63	30	63	300,4	179	114	33,3	10,9
GCP-50/75	50	75	631	237	159	54	28,1
GCP-100/75	100	75	1071	255	212	79	52,5

*GCP-XXX/XX it is possible to produce the cylinders according to your specifications

Single-Action Low Cylinder



Description

This model features include corrugated support surface that prevents the load from sliding, as well as small dimensions and weight.

Use in any spatial position is possible. It has a spring rod return.

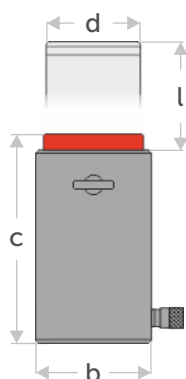
Technical Specifications

Model	Strain, tf	Rod stroke l, mm	Oil cubic capacity, cm ³	Cylinder height c, mm	Outer cylinder diameter b, mm	Support diameter d, mm	Weight, kg
GCN-10/11	10	11	17	53	82	45	1,6
GCN-20/11	20	11	31	62	101	60	2,9
GCN-30/13	30	13	54	71	117	73	3,9
GCN-50/16	50	16	101	82	139	90	6,5
GCN-75/16	75	16	166	95	165	115	11
GCN-100/16	100	16	196	101	178	125	14
GCN-150/16	150	16	321	116	215	160	25

*GCN-XXX/XX it is possible to produce the cylinders according to your specifications

➔ For the scope of supply and documents see page 104.

Single-Action Load Cylinder



Description

It is designed for lifting loads during assembly/disassembly and repair works, it has the spring rod return. The cylinder can be used in any spatial position.

Type of Support

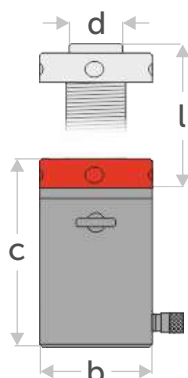
	Tilt saddle ✓ Installed		Fixed support ✗ Impossible
	Toothed support ✗ Impossible		Corrugated support ✗ Impossible

Technical Specifications

Model	Strain, tf	Rod stroke l, mm	Oil cubic capacity, cm ³	Cylinder height c, mm	Outer cylinder diameter b, mm	Support diameter d, mm	Weight, kg
GCG-30/100	30	100	440	217	105	68	12,5
GCG-30/150	30	150	660	267	105	68	15
GCG-50/100	50	100	710	242	128	85	16
GCG-50/150	50	150	1070	292	128	85	19
GCG-100/100	100	100	1430	1430	185	105	38
GCG-100/150	100	150	2146	2146	185	105	50

*GCG-XXX/XX it is possible to produce the cylinders according to your specifications

Single-Action Cylinder with Retaining Nut



Description

The cylinder is designed for vertical lifting only and has a spring rod return. Mechanical fixation in the raised position occurs due to nut and thread along the entire length of rod, the load is fixed within the rod stroke.

Type of Support

	Tilt saddle ✗ Impossible		Fixed support ✓ Installed
	Toothed support ✗ Impossible		Corrugated support ✗ Impossible

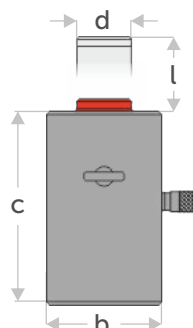
Technical Specifications

Model	Strain, tf	Rod stroke l, mm	Oil cubic capacity, cm ³	Cylinder height c, mm	Outer cylinder diameter b, mm	Support diameter d, mm	Weight, kg
GCF-30/200	30	200	883	335	105	68	23
GCF-50/200	50	200	1141	375	128	80	38
GCF-100/230	100	230	3292	410	185	110	75
GCF-150/230	150	230	4918	430	225	140	164
GCF-200/230	200	230	6562	440	255	170	224

*GCF-XXX/XX it is possible to produce the cylinders according to your specifications

➔ For the scope of supply and documents see page 104.

Single-Action Aluminum Load Cylinder



Description

This model feature is aluminum case that has increased corrosion resistance. It is approved for use in the gas-polluted premises with increased fire hazard. It has a spring rod return.

Type of Support

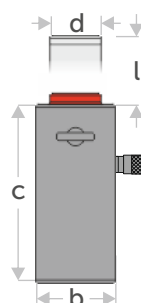
	Tilt saddle X Impossible		Fixed support ✓ Installed
	Toothed support X Impossible		Corrugated support X Impossible

Technical Specifications

Model	Strain, tf	Rod stroke l, mm	Oil cubic capacity, cm ³	Cylinder height c, mm	Outer cylinder diameter b, mm	Support diameter d, mm	Weight, kg
GCA-30/50	30	50	220	150	108	68	5
GCA-30/100	30	100	440	200	108	68	6,5
GCA-30/150	30	150	660	250	108	68	8
GCA-50/50	50	50	354	165	136	85	6
GCA-50/100	50	100	708	215	136	85	10,5
GCA-50/150	50	150	1062	265	136	85	15
GCA-100/50	100	50	715	190	195	110	16
GCA-100/100	100	100	1430	240	195	110	19,5
GCA-100/150	100	150	2145	290	195	110	23

*GCA-XXX/XX it is possible to produce the cylinders according to your specifications

Double-Action Cylinder with Hollow Rod



Description

This model feature is hollow rod that is used as a load-bearing element in various mechanical devices for tensioning ropes, lifting and moving of loads, etc. It has the hydraulic rod return. The cylinder can be used in any spatial position.

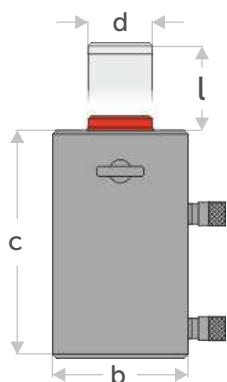
Technical Specifications

Model	Strain, tf	Rod stroke l, mm	Oil cubic capacity, cm ³	Cylinder height c, mm	Outer cylinder diameter b, mm	Support diameter d, mm	Weight, kg
GCP-10/250	10	254	365	406	70	20	11
GCP-30/210	30	210	928	425	115	33	28
GCP-50/155	50	156	1106	380	159	54	42
GCP-100/165	100	168	2230	382	216	80	79

*GCP-XXX/XX it is possible to produce the cylinders according to your specifications

→ For the scope of supply and documents see page 104.

Single-Action Load Cylinder



Description

It is designed for lifting loads during assembly/disassembly and repair works, it has the spring rod return. The cylinder can be used in any spatial position.

Type of Support

	Tilt saddle ✓ Installed		Fixed support ✗ Impossible
	Toothed support ✗ Impossible		Corrugated support ✗ Impossible

Technical Specifications

Model	Strain, tf	Rod stroke l, mm	Oil cubic capacity, cm ³	Cylinder height c, mm	Outer cylinder diameter b, mm	Support diameter d, mm	Weight, kg
GCG-50/150W	50	150	1062	337	132	60	30
GCG-50/300W	50	300	2124	487	132	60	50
GCG-100/150W	100	150	2145	355	185	95	64
GCG-100/300W	100	300	4290	505	185	95	83
GCG-150/150W	150	150	3205	386	215	125	104
GCG-150/300W	150	300	6410	536	215	125	136
GCG-200/150W	200	150	4250	399	247	160	129
GCG-200/300W	200	300	8500	549	247	160	169
GCG-300/150	300	150	6843	450	310	197	252
GCG-300/300W	300	300	13686	600	310	197	299
GCG-400/150W	400	150	8399	480	350	216	342
GCG-400/300W	400	300	16797	630	350	216	436
GCG-500/150W	500	150	10967	525	400	248	493
GCG-500/300W	500	300	21951	675	400	248	616
GCG-600/150W	600	150	12822	545	430	267	586
GCG-600/300	600	300	25644	695	430	267	722
GCG-800/150W	800	150	17654	595	505	317	885
GCG-800/300W	800	300	29423	745	505	317	1082

*GCG-XXX/XX it is possible to produce the cylinders according to your specifications

Recommended Additional Equipment



Manual pump,
high-pressure hose 3 m, QRC
→ For more details see page 105

Standard Scope of Supply



«GCP/GCN/GCG/GCF/GCA/GCP/GCG» load cylinder

Documents

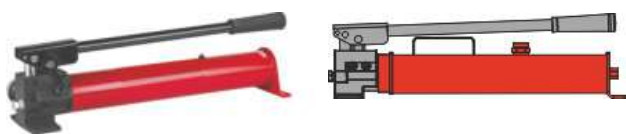


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The manufacturer retains the right to make amendments and improvements in this device structure that are not of fundamental nature and are not indicated in this catalogue

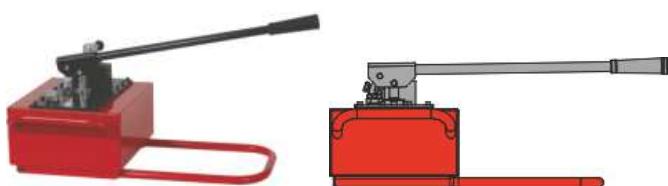
Model NRG-0/1/1T



Model NRG-3/3T/8/8T



Model NRG-16/16T

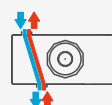


Description

The hydraulic pump models with letter «T» are intended for use with the double-action cylinders. The hand-operated pumps are robust and operate with minimal handle force. All this provides convenience in work.

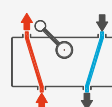
Types of Valves

Valve PW1

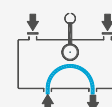


Delivery/Return

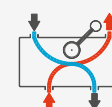
Valve PW4



Delivery



Retention



Return

Technical Specifications

Модель	Rated pressure of the 1/2 step, Sap	Feed, cm ³ /cycle, 1/2 step	Total/useful capacity of the tank, cm ³	Max.handle force, kg	Dimensions (l x b x h), mm	Valve type	Weight, kg
NRG-0	20/700	13/2,13	700/600	35	635 x 160 x 155	PW1	7,0
NRG-1	20/700	13/2,13	1000/800	35	715 x 160 x 155	PW2	7,3
NRG-1T	20/700	13/2,13	1000/800	35	800 x 160 x 155	PW4	8,6
NRG-2	20/700	13/2,13	2000/1500	35	770 x 160 x 155	PW1	9,8
NRG-2T	20/700	13/2,13	2000/1500	35	800 x 135 x 150	PW4	11
NRG-3	20/700	31/14	3500/3000	35	670 x 130 x 170	PW1	11
NRG-3T	20/700	31/14	3500/3000	35	695 x 130 x 170	PW4	10,5
NRG-8	20/700	90/15	8000/6300	35	650 x 245 x 285	PW1	28
NRG-8T	20/700	90/15	8000/6300	35	650 x 245 x 285	PW4	29
NRG-16	20/700	90/15	16000/14000	35	700 x 285 x 285	PW1	38
NRG-16T	20/700	90/15	16000/14000	35	700 x 285 x 285	PW4	39

Standard Scope of Supply



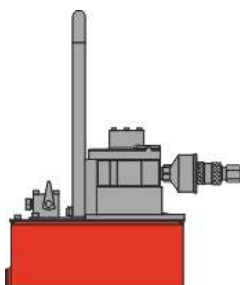
Manual pump «NRG»

Documents

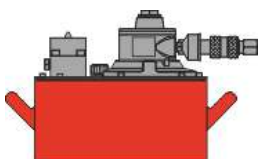


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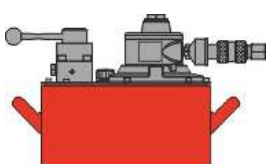
Model ARD-074



Model AR-712



Model ARM-712



Description

They are designed for use as a source of hydropower for hydraulic tools and equipment with precise pressure control to drive the tools and equipment. It is used where the electric drive is prohibited, namely during maintenance of railway transport, in the fire-hazardous and explosive industries.

Types of Valves

Valve PW2

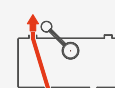


Delivery



Return

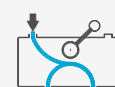
Valve PW3



Delivery

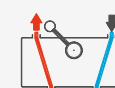


Retention

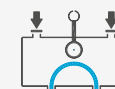


Return

Valve PW4



Delivery



Retention



Return

Technical Specifications

Model	Power, kW	Volume, l	Rated pressure, 1/2 step, bar	Valve type	Air flow rate, cm ³ /min	Air pressure, bar	Dimensions (l x b x h), mm	Weight, kg
ARD-074	0,75	3,8	50/700	PW2	74,8	4,1~5,5	404 x 203 x 485	19
ARD-712	0,75	11,3	50/700	PW2	74,8	4,1~5,5	457 x 305 x –	24,5
AR-304	0,75	11,3	50/700	PW3	74,8	4,1~5,5	457 x 305 x 302	25
ARD-312	3	3,8	50/700	PW2	161,5	4,1~6,9	415 x 203 x 487	24,5
ARD-312	3	11,3	50/700	PW2	161,5	4,1~6,9	467 x 305 x –	29,9
AR-312	3	11,3	50/700	PW3	161,5	4,1~6,9	470 x 305 x 343	30,4
ARM-712	0,75	11,3	50/700	PW4	74,8	4,1~5,5	457 x 305 x 305	25
ARM-312	3	11,3	50/700	PW4	161,5	4,1~6,9	470 x 307 x 344	30,4

Standard Scope of Supply



«AR/ARD/ARM» hydraulic pump

Documents

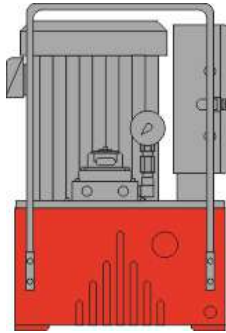


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> **PST** **Oil-Pumping Stations**

- + High performance
- + Reliability
- + Spacious tank volume

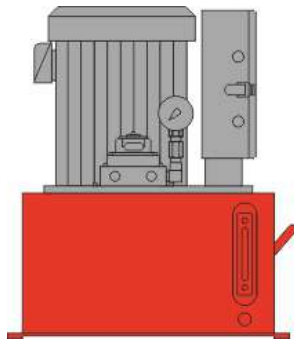




Description

The electric pumping stations are two-stage pumping stations for single/double-action hydraulic tools. The manual models are equipped with a manually operated 3-position valve, and the solenoid units have a 3-position solenoid valve.

At request, the tank volume in electric pumping stations can be increased (10, 20, 40, 60).



Technical Specifications

Model	Rated pressure, 1/2 step, bar	Performance 1/2step, l/min	Specifications of electric motor, kW/V/rpm	Tank volume, l	Weight, kg
PST1–Manual–380	70/720	4,5/0,6	0,75/380/1720	10	50
PST1–Solenoid–380	70/720	4,5/0,6	0,75/380/1720	10	50
PST2–Manual–380	70/720	6,5/1,2	1,5/380/1720	20	55
PST2–Solenoid–380	70/720	6,5/1,2	1,5/380/1720	20	55
PST3–Manual–380	70/720	9/2,4	2,2/380/1720	40	63
PST3–Solenoid–380	70/720	9/2,4	2,2/380/1720	40	63
PST5–Manual–380	70/720	9/3	3,7/380/1720	60	68
PST5–Solenoid–380	70/720	9/3	3,7/380/1720	60	68

Standard Scope of Supply



«PST1/PST2/PST3/PST5» oil-pumping station

Documents



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