



**ALMALKYK
MINING AND METALLURGICAL
COMPLEX**

**CATALOGUE
OF IMPORTED PRODUCTS**

**CATALOGUE OF
IMPORTED PRODUCTS
JSC “ALMALYK MMK”**

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Mining and Underground Equipment Products



**Steel rope D1 3.5
(ChRU)**

GOST 3079-80

Annual requirement: 1,476 m



Bolt with nut 18x90 (ChRU)

GOST 8144-73

Annual requirement: 800 kg



Rails R 24 (ARU, CRU)

GOST 6368-82

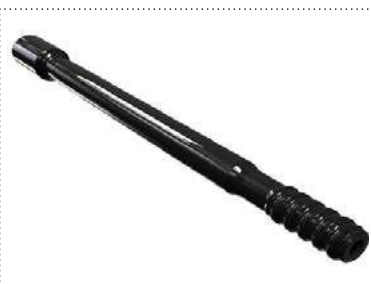
Annual requirement: 301,300 kg



**Shank for rotary hammer T38 Simba 90516121/435-09103.10
Simba K 102 (ARU, Handiza)**

T38 Simba 90516121/435-09103.10 to Simba K 102

Annual requirement: 372 pcs.



**Drill rod T38 L-915 90510718/235-4709-MF-C,02
to Simba K 102 (ARU, Kauldy, Handiza)**

ISO 9001:2015/ ISO 14001:2015/OHSAS 18001:2007

Annual requirement: 636 pcs.



**Hexagonal drill steel S-22/25mm 55C2
(ARU, Kauldy, ChRU)**

GOST 2879-2006 GOST 14959-16

Annual requirement: 2 8 399 kg



**Conical rod L-1800mm (25x108mm)
90029095/594-1118-S,02 (ARU, Kauldy, ChRU)**

GOST 14959-16

Annual requirement: 902 pcs.



**Mine prop, cotton, 7-24 cm, 4.0-6.5 m
(ARU, Kauldy, ChRU)**

GOST 9463-88

Annual requirement: 5,548 m³



**Softwood sawlogs
(ARU, ChRU)**

GOST 9463-2016

Annual requirement: 1,695 m³



**Steel rope d=15 mm
(ARU, Kauldy, ChRU)**

GOST 2688-80

Annual requirement: 43,884 p - m



**Steel rope B16.5
(ChRU)**

GOST 2688-80

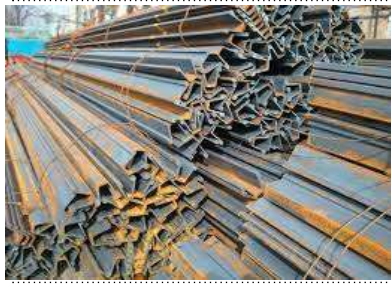
Annual requirement: 1004 m



**Steel rope D15.5
(ChRU)**

GOST 3079-80

Annual requirement: 1,093 m



Hot-rolled profile SVP 22
(ARU, Kauldy, ChRU, TsRMZ)

GOST 18662-83

Annual requirement: 2115.1 tons



Electric detonator ED-Z-N (ARU, CRU)

TU DISHV 773.951.300

Annual requirement: 58,445 pieces



SINV/ISKRA-Sh-4, 16, 21 device
(ARU, Kauldy, ChRU)

TU 7275-032-07513903-2008

Annual requirement: ISKRA-SH-4 – 374,707 kg ISKRA-SH-16 – 24,586 kg ISKRA-SH-21 – 1,294 kg



Detonating cord DShN-6 (ZVM, ChRU, ARU, Kauldy)

IVShP 773.979.013 TU

Annual requirement: 451,912 p/m



Ammonite cartridge 6ZhV-200 diameter 32
(ARU, CHRU, Kauldy)

GOST 21984-76

Annual requirement: 206,340 kg



Synthetic polyamide barrier casing (SPM)

TU 2245-001-50845814-2010

Annual requirement: 734.2 km



Synthetic polyamide barrier casing (SPM)

TU 2245-001-50845814-2010

Annual requirement: 68.92 km



Clip 2.5x13.5x15 (ZVM)

GOST 1639

Annual requirement: 400,708 pcs



Clip 3x16x18 (ZVM)

GOST 1639

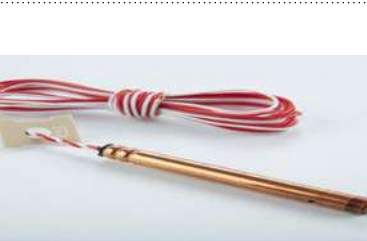
Annual requirement: 4292.06 pcs.



ISKRA-SH (ZVM) devices

TU 7275-032-07513903-2008

Annual requirement: 753,625 pieces



Electric detonator ED-Z-N (Kauldy, ZVM)

TU 773951.300

Annual requirement: 74,814 pieces



Подшипник (крестовина) (ШСУ)

5535542400

Годовая потребность: 36 шт



ISKRA-S (ZVM) devices

TU 7275-031-07513903-2008

Annual requirement: 139,706 pieces



ISKRA-P (ZVM) devices

TU 7275-030-07513903-2008

Annual requirement: 91,682 pieces



Shock wave tube (SWT)

TU773941.008

Annual demand: 194,583 m



Ammonite 6-ZhV (ZVM)

TU 84-08628424-786-2003

Annual requirement: 200,000 kg



Submersible pump SP 17-9

In accordance with EU standards

Annual requirement: 20 pcs.



Submersible pump TWU10s-200-2-45REW

In accordance with EU standards

Annual requirement: 20 pcs.



Turbocharger ST-2G (ShSU)

5580015711

Annual requirement: 4 pcs.



Starter ST-2G (ShSU)

5112310159

Annual requirement: 4 pcs.



ST-2G catalyst (ShSU)

5500937400

Annual requirement: 8 pcs.



Hanger bearing ST-2G (ShSU)

5535542400

Annual requirement: 12 pcs.



Injector - Cumin's QSB-4.5 (ShSU)

5580012919

Annual requirement: 8 pcs.



Injector - Deutz BF4M1013EC (ShSU)

5580015717

Annual requirement: 8 pcs



Bearing (crosspiece) (ShSU)

55354373 00

Annual requirement: 24 pcs.



Cover from the PPN-1S (ARU) travel gearbox

05.00.401

Annual requirement: 20 pcs.



Pneumatic motor for PPN-1S (ARU)

P-12-12

Annual requirement: 36 pcs.



Buffer spring PPN-1S (ARU)

00.00.006

Annual requirement: 83 pcs.



Chain assembly PPN-13 (ARU)

PM5.04.20.18.700

Annual requirement: 29 pcs.



Control panel PPN-1S (AGC)

00.1-04-000

Annual requirement: 23 pcs.



Compressor ring PPN-1S (ShSU)

120-1004025

Annual requirement: 1000 pcs.



Oil scraper piston ring PPN-1S (ARU)

05.00.401

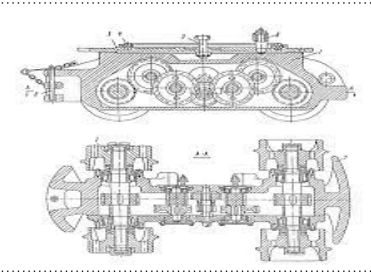
Annual requirement: 20 pcs.



Connecting rod for P12-12 (ARU)

P2.5F-1-02

Annual requirement: 50 pcs.



Chassis PPN-1S (ARU)

05.00.000.450.000

Annual requirement: 7 pcs.



Main connecting rod assembly for P12-12 (automatic control unit)

P2.5F-1-01

Annual requirement: 12 pcs.



Piston striker PP63V (ARU)

PP63V.006

Annual requirement: 140 pcs.



Rotary screw PP63V (ARU)

041

Annual requirement: 138 pcs.



Guide axlebox for rotary hammer PP-54V (AGR)

PP54V.015

Annual requirement: 168 pcs.



Cylinder PP63V for the hammer drill PP-63 (ARU)

PP63V.001

Annual requirement: 3 pcs.



Valve box cover for the PP63 (ARU) perforator

PP63.051

Annual requirement: 130 pcs.



Rotary box for the PP-63 rotary hammer (ARU)

PP54V.256

Annual requirement: 128 pcs.



Barrel for the PP-63V (ARU) perforator

PP54V.021

Annual requirement: 130 pcs.



Dog (wing) for the PP-63 (ARU) rotary hammer

PP54V.024

Annual requirement: 2000 pcs.



Ratchet rings for the PP-63V (ARU) hammer drill

PP63V.023

Annual requirement: 93 pcs.



Crane body for the PP-63 hammer drill (ARU)

PP63V.002

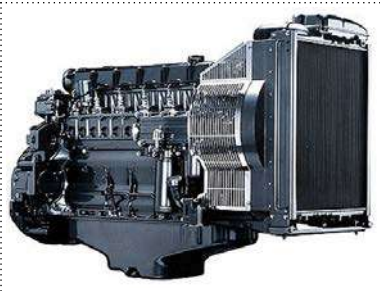
Annual requirement: 76 pcs.



Spool valve for the PP-63 (ARU) hammer drill

PP54.052

Annual requirement: 128 pcs.



Diesel engine BF 1013EC GLV ST-2G (AGC)

5580 0054 39

Annual requirement: 2 pcs.



Diesel engine CUMMINS QSB-4.5 III TIER (AGC)

5580 0147 28

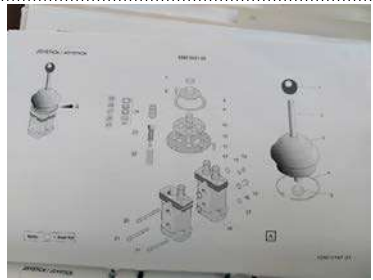
Annual requirement: 1 piece



Repair kit for the hydraulic system valve of the PDM ST-2G (ARU)

5540 1692 00

Annual requirement: 12 pcs.



Joystick PDM ST-2G (AGC)

5580 0021 89

Annual requirement: 4 pcs.



Turbocharging PDM ST-2G (AGC)

5580 0219 96

Annual requirement: 3 pcs.



Tension pulley PDM ST-2G (ARU)

3222 3319 63

Annual requirement: 3 pcs.



Thermostat PDM ST-2G (AGC)

5580 0219 81

Annual requirement: 3 pcs.



Retaining ring for the wheel of the ST-2G (ARU) PDM

5540 0855 00

Annual requirement: 8 pcs.



Manual diesel fuel pumping system PDM ST-2G (automatic control system)

3222 3115 21

Annual requirement: 3 pcs.



Air branch pipe PDM ST-2G (ARU)

5580 0090 75

Annual requirement: 2 pcs.



Air branch pipe PDM ST-2G (ARU)

5537 1322 00

Annual requirement: 4 pcs.



Balancer PDM ST-2G (AGC)

5573 3790 00

Annual requirement: 5 pcs.



Brake system solenoid PDM ST-2G (AGC)

5541 5403 00

Annual requirement: 2 pcs.



Safety valve for the PDM ST-2G (ARU) system

3128 2538 02

Annual requirement: 2 pcs.



Cylinder head BF4V1013EC 01-30 08 PDM ST-2G (AGC)

05101338

Annual requirement: 2 pcs.



BF4V1013EC 01/30 PDM ST-2G (ARU) sleeve

05101330

Annual requirement: 16 pcs.



Sealing ring BF4V1013EC 0130 07 PDM ST-2G (ARU)

05101337

Annual requirement: 64 pcs.



Cylinder head gaskets BF4V1013EC PDM ST-2G (ARU)

0420-1562

Annual requirement: 4 pcs.



Rear axle to ST-2G (AGC)

5575 2718 00

Annual requirement: 1 piece



Front axle to ST-2G (automatic control system)

5575 2715 50

Annual requirement: 1 piece



Ring gear m-30 z-144 to EKG-15

3504.05.00.007

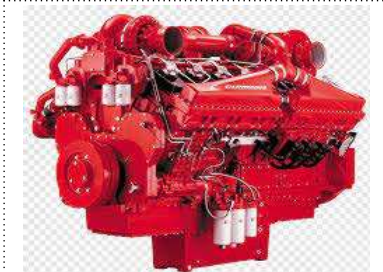
Annual requirement : 2 pcs



Gearbox for LHD ST-2G (AGC)

5575 5467 00

Annual requirement: 1 piece



CUMMINS engine module for ST-2G LHD (automatic control system)

5580 0066 32

Annual requirement: 2 pcs.



Cummins QSB-4.5 engine injectors for ST-2G fuel injection pump (automatic control unit)

5580 0129 19

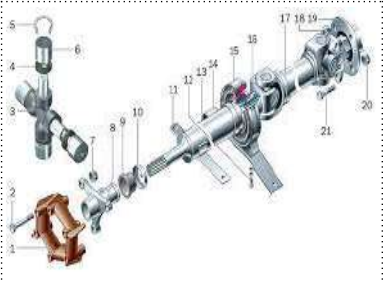
Annual requirement: 12 pcs.



Water pump for CUMMINS QSB-4.5 engine to ST-2G LHD (automatic control unit)

5580 0219 89

Annual requirement: 3 pcs.



Cardan transmission (AGC)

5573 6156 00

Annual requirement: 7 pcs.



Shaft-gear m-30, z-12 to EKG-10

3536.11.01.002

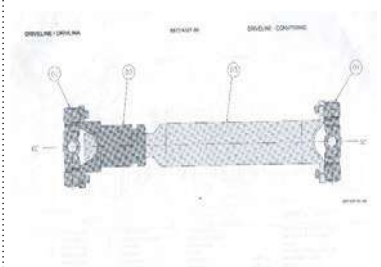
Annual requirement: 12 pcs.



Satellite for the EKG-10 excavator

3536.11.01.004

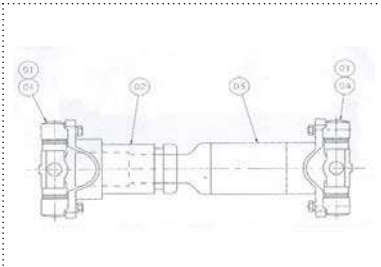
Annual requirement: 50 pcs.



Cardan transmission (AGC)

5572 6327 00

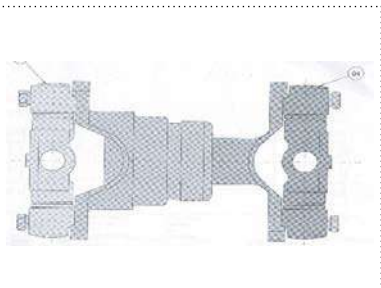
Annual requirement: 5 pcs.



Cardan transmission (AGC)

5573 6152 00

Annual requirement: 4 pcs.



Cardan transmission (AGC)

5573 6155 00

Annual requirement: 10 pcs.



Starter for CUMMINS QSB-4.5 TIER III engine (AGC)

GOST 6060 1002 03

Annual requirement: 2 pcs.



Bucket suspension assembly for EKG-15M

3537.25.00.000-02

Annual requirement : 2 pcs



Saddle bearing for EKG-15

3537.03.08.000

Annual requirement: 1 piece



Roller circle for EKG-15

3537.05.03.000

Annual requirement: 2 pcs.



Half-block return to ECG-15; ECG-20

3537.03.02.050

Annual requirement: 6 pcs.



Rear semi-block for ECG-15

3537.02.00.001

Annual requirement: 6 pcs.



Handle 3537.02.00.000 for EKG-1

3537.02.00.000

Annual requirement: 1 piece



Ring rail for EKG-10

3536.13.00.004

Annual requirement : 3 2 pcs



Shaft gear m=12, z-14 to EKG-15

3537.09.01.100

Annual requirement: 6 pcs.



Lower ring rail for EKG-15

3537.68.05.000Sat

Annual requirement: 3 pcs.



Ring gear m-30 z-144 to EKG-10

3533.05.00.080

Annual requirement: 2 pcs.



Shaft-gear m-12 z-18 to EKG-10

3536.22.01.001

Annual requirement: 6 pcs.



Handle beam for EKG-10

3536.38.01.000

Annual requirement: 2 pcs.



Return half block for the EKG-8 m3 excavator

3519.49.00.001

Annual requirement : 6 pcs



Pressure semi-block for EKG-10

3536.38.00.001

Annual requirement: 6 pcs.



Shaft IV assembled with toothed wheel m-20 z-66 to EKG-8

3519.10.03.100SB

Annual requirement: 1 piece



Shaft-gear m-22 z-65 to EKG-10

3536.08.03.100Sat

Annual requirement: 1 piece



Central wheel for EKG-10

3555.11.01.001

Annual requirement: 6 pcs.



Tension wheel for EKG-15

3537.67.01.150

Annual requirement: 10 pcs.



Satellite for ECG-10

3536.11.01.028

Annual requirement : 40 pcs



Absorbing device PMK-110K-23 for EKG-10 (damper)

In accordance with the manufacturer's GOST

Annual requirement: 20 pcs.



Shaft gear m-30, z-12 to EKG-15; EKG-20

3537.11.06.001

Annual requirement: 15 pcs.



Crane body for the PP-63V hammer drill

PP-63V.002

Annual requirement: 76 pcs.



Spool valve for the PP-54V hammer drill

PP 54V.052

Annual requirement: 128 pcs.



Insert for ECG-15

3537.03.08.004

Annual requirement: 28 pcs.



Stator of pump NM022 (ZVM)

In accordance with the manufacturer's GOST

Annual requirement : 38 pcs



High-pressure fuel pump (HPFP)

In accordance with the manufacturer's GOST

Annual requirement: 19 pcs .



Front brake chamber (FBC)

In accordance with the manufacturer's GOST

Annual requirement: 64 pcs .



KAMAZ energy battery (ZVM)

In accordance with the manufacturer's GOST

Annual requirement: 64 pcs .



**Hydraulic distributor
1R 203.AL4.44G24N (Kalmakyr)**

1P 203.AL4.44G24N

Annual requirement: 12 pcs .



**Hydraulic relief valve MKPV 10/3S2R3UHL4
(Kalmakyr)**

MKPV 10/3S2R3UKHL4

Annual requirement: 20 pcs .



**Hydraulic distributor
VE10.574.G24 NUHL4 (Kalmakyr)**

VE10.574.G24 NUHL4

Annual requirement : 20 pcs



**Hydraulic distributor
VE10.44.G24 NUHL4 (Kalmakyr)**

VE10.44.G24 NUHL4

Annual requirement: 20 pcs .



**GRUNDFOS submersible pump
SP-17 Q-17m/h H-73m (PVS)**

According to the manufacturer's GOST

Annual requirement: 5 pcs .



Device SINV/ISKRA-S-16 (ZVM)

TU 7275-031-07513903-2008

Annual requirement: 42,000 pcs



Device SINV/ISKRA P-167-9 (ZVM)

TU 7275-030-07513903-2008

Annual requirement: 2000 pcs



Устройство СИНВ/ИСКРА-II-109-9 (ЗВМ)

ДИШВ 773979.008 ТУ

Годовая потребность: 26000 шт



Device SINV/ISKRA-S-21 (ZVM)

TU 7275-031-07513903-2008

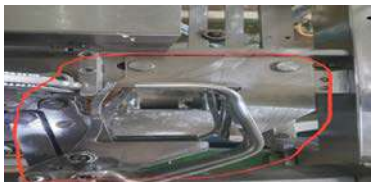
Annual requirement : 75,000 pcs



Device SINV/ISKRA-Sh-16 (ZVM)

TU 7275-031-07513903-2008

Annual requirement: 10,000 pcs



Forming block KND3.02.00.000 for clip-on unit F-32 (ZVM)

In accordance with the manufacturer's GOST

Annual requirement: 2 pcs.



**Stator VT020S01 of the NETZSCH pump for the F-32 (ZVM)
clip-on unit**

In accordance with the manufacturer's GOST

Annual requirement: 2 pcs.


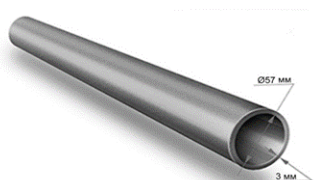
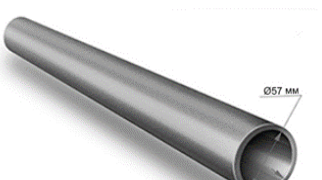




**Stator 176527 NETZSCH pump for clip-on installation f-90 mm
(ZVM)**

In accordance with the manufacturer's GOST

Annual requirement: 1 piece

Mechanical Engineering Products

 <p>Technical drawing of a cold-rolled pipe with an outer diameter of 38 mm and a wall thickness of 3 mm.</p>	<p>Cold-rolled pipes d=38x3 steel 20. (CHP)</p> <p>GOST 8734-75, 8733-74</p> <p>Annual requirement: 2 tons</p>
 <p>Technical drawing of a cold-rolled pipe with an outer diameter of 32 mm and a wall thickness of 3 mm.</p>	<p>Cold-rolled pipes d=32x3 steel 20. (CHP)</p> <p>GOST 8734-75, 8733-74</p> <p>Annual requirement: 3 tons</p>
 <p>Technical drawing of a cold-rolled pipe with an outer diameter of 57 mm and a wall thickness of 3 mm.</p>	<p>Cold-rolled pipes d=57x3 steel 20. (CHP)</p> <p>GOST 8734-75, 8733-74</p> <p>Annual requirement: 1 ton</p>
 <p>Technical drawing of a cold-rolled pipe with an outer diameter of 60 mm and a wall thickness of 3 mm.</p>	<p>Cold-rolled pipes d=60x3 steel 20 (TPP)</p> <p>GOST 8734-75, 8733-74</p> <p>Annual requirement: 3 tons</p>
 <p>Technical drawing of a hot-rolled pipe with an outer diameter of 76 mm and a wall thickness of 4 mm.</p>	<p>Hot-rolled pipes d=76x4 steel 20. (CHP)</p> <p>GOST 8734-75, 8733-74</p> <p>Annual requirement: 3.6 tons</p>
 <p>Technical drawing of a cold-rolled pipe with an outer diameter of 108 mm and a wall thickness of 6 mm.</p>	<p>Cold-rolled pipes d=108x6 steel 20. (CHP)</p> <p>GOST 8734-75, 8733-74</p> <p>Annual requirement: 10 tons</p>



Round stainless steel 12X18H10T

GOST 1050-74

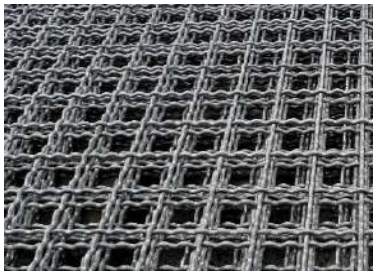
Annual requirement: 8 tons



Lead pig

GOST 3778-98

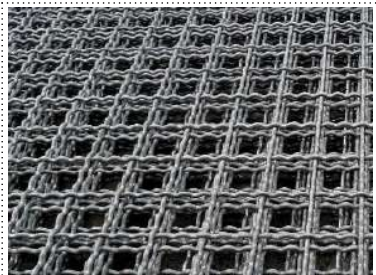
Annual requirement: 23.3 tons



Corrugated wire mesh "P" 6x2.2x1500x3000

GOST 3306-88

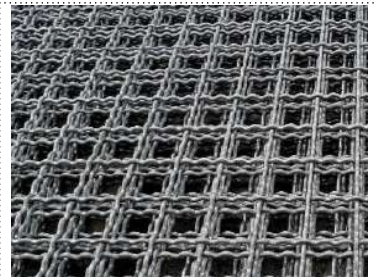
Annual requirement: 30 m²



Corrugated wire mesh "P" 40x5x1750x3000

GOST 3306-88

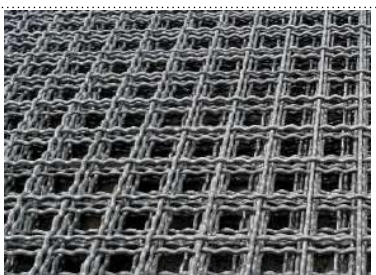
Annual requirement: 60 m²



Corrugated wire mesh "P" 8x3x1500x3000

GOST 3306-88

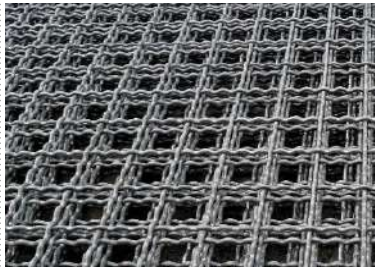
Annual requirement: 30 m²



Corrugated wire mesh "P" 25x5x1500x3000

GOST 3306-88

Annual requirement: 1060 m²



Corrugated wire mesh "P" 8x3x1500x3000 (IZ)

GOST 3306-88

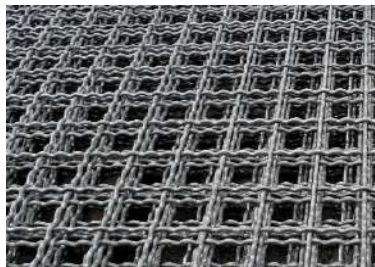
Annual requirement: 30 m²



Mesh 13 x13x1500x2000 (IZ)

GOST 3306-88

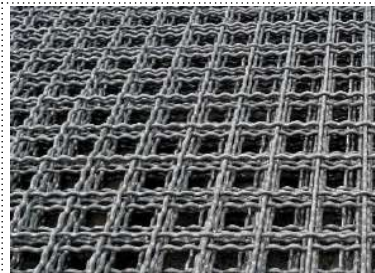
Annual requirement: 23.3 tons



Cancelled mesh 32 x5x1500x3000 (IZ)

GOST 3306-88

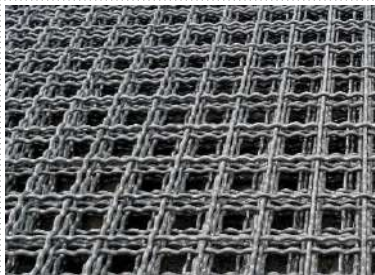
Annual requirement: 45 m²



Mesh 13 x13x1500x2000 (IZ)

GOST 3306-88

Annual requirement: 60 m²



Corrugated wire mesh "P" 25x5x1500x3000 (IZ)

GOST 3306-88

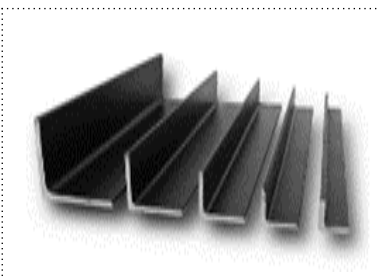
Annual requirement: 60 m²



Steel rope D11.5 - D39.5 (FROM)

GOST 2688-80

Annual requirement: 0.12 -116 to m



Corner 90x90x9 -100x100-125x125x10 (MPZ)

GOST 8509-72

Annual requirement: 21 tons



Channel 12 - 30 (MPZ)

GOST 8240-72

Annual requirement: 72.3 tons



I-beams 10 -30 (MPZ)

GOST 8239-72

Annual requirement: 23.2 tn



Stainless steel sheet 12X18H10T $\delta=2-18$ MM

GOST 5632-72

Annual requirement: 83.6 tons



Stainless steel sheet 12X18H10T $\delta=20 - 36$ MM

GOST 19904-74

Annual requirement: 3 33 .6 tn



Stainless steel sheet 12X18H10T $\delta=19$

GOST 24045-94

Annual requirement: 802 m²



Lead rolls b=5mm C-1

GOST 89-73

Annual requirement: 7.1 tons



Lead rolls b=4mm C-1

GOST 89-73

Annual requirement: 5.2 tons



POS-40 solder

GOST 21931-76

Annual requirement: 16 tons



Wire LK62-0.5 Ø 3 mm.

GOST 16130-85

Annual requirement: 20 tons



Stainless steel sheet 12X18H10T δ=44

GOST 21631-76







Annual requirement: 4.2 tons



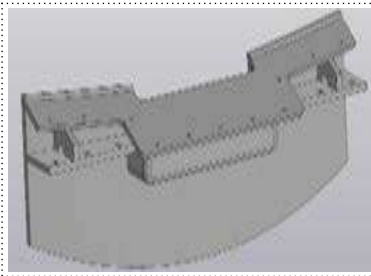
Stainless steel sheet 12X18H10T δ=45-52

GOST 22178-76

Annual requirement :

	<p>Titanium circle Ø-16 mm VT-1-0</p> <p>GOST 22178-87</p> <p>Annual requirement: 2 tons</p>
	<p>Titanium pipe Ø 32x3 VT1-0</p> <p>GOST 22897-86</p> <p>Annual requirement : 0.6 tons</p>
	<p>Hot-rolled pipe Ø 57x3.5 St.10X17N13M2T</p> <p>GOST 9941-81</p> <p>Annual requirement: 2.9 tn</p>
	<p>Cold-rolled pipe Ø 76x4 steel 12X18N10T</p> <p>GOST 9941-72</p> <p>Annual requirement: 20 tons</p>
	<p>Cold-rolled pipe Ø 25x3.2 steel 20</p> <p>GOST 8734-75, 8733-74</p> <p>Annual requirement: 2.4 tons 490 m</p>
	<p>Wire for surfacing PP-AN-1 Ø=2.8</p> <p>GOST 10052-75</p> <p>Annual requirement: 1.8 tons</p>

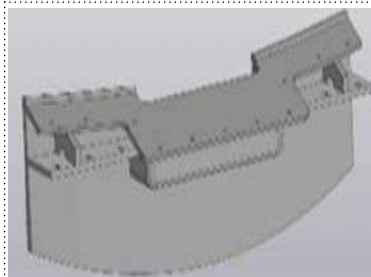
	<p style="text-align: center;">Butt joint " Vulcan " (MPZ, CZ)</p> <p style="text-align: center;">According to the manufacturer's GOST</p> <p style="text-align: center;">Annual requirement: 142 kg</p>
	<p style="text-align: center;">Oxygen cylinder V-40l under pressure of 150 kgf/cm sq.</p> <p style="text-align: center;">GOST 949-73</p> <p style="text-align: center;">Annual requirement: 134 pieces</p>
	<p style="text-align: center;">Stainless steel electrodes NZh-13 Ø-5 mm</p> <p style="text-align: center;">GOST 10052-75</p> <p style="text-align: center;">Annual requirement: 190 kg</p>
	<p style="text-align: center;">Stainless steel electrodes CL-11 Ø-4 mm</p> <p style="text-align: center;">GOST 10052-75</p> <p style="text-align: center;">Annual requirement: 860 kg</p>
	<p style="text-align: center;">Stainless steel electrodes NZh-13 Ø-3 mm</p> <p style="text-align: center;">GOST 10052-75</p> <p style="text-align: center;">Annual requirement: 230 kg</p>
	<p style="text-align: center;">Sarmat (welding rod PR-27) Ø 6-8 mm</p> <p style="text-align: center;">According to the manufacturer's GOST</p> <p style="text-align: center;">Annual requirement: 2.5 tons</p>



Armor plate N3 1-107600 to converter

According to the manufacturer's GOST

Annual requirement: 2 pcs.



Armor plate 1-89521 for converter

According to the manufacturer's GOST

Annual requirement: 2 pcs.



Bucket KShSh-8 1-85161

TU24-1-3652-78

Annual requirement: 4 pcs.



SLAG BOWL V-11

1-158241SB TO THE SLAG CAR

Annual requirement: 2 pcs.



Plate 1-820K 6471.01.20.00014 for filter press ROM-50-1K-001

According to the manufacturer's GOST

Annual requirement: 76 pcs.



Frame 1-820/45K 6470.01.20.1920.000 to the filter press ROM-50-1K-001

According to the manufacturer's GOST

Annual requirement: 78 pcs



Chain for elevators B-300 D20 p-56, b-67 (IZ)

GOST 2688-80

Annual requirement: 3 tons



Chain for elevators B-400 D23 p-64, b-77 (IZ)

GOST 2688-80

Annual requirement: 3 tons



**Chain A1-16x44 TU-12-0173856-015-88 round link
normal strength cargo and traction (IS)**

GOST 2688-80

Annual requirement: 1000 kg



**Sheet x/rolled b=2mm st.3sp
(Kalmakyr)**

GOST 19904-90, 16523-89

Annual requirement: 39 tons



Corrugated sheet S-5mm st.3sp (Kalmakyr)

According to the manufacturer's GOST

Annual requirement: 5 tons






Rolled sheet b=20mm - 30 st.3sp (Kalmakyr)

GOST 19903-74, 14637-89

Annual requirement: 24 tons

	<p>Cold-rolled sheet B=1mm ST.3SP.PS. (Kalmakyr)</p>
	<p>GOST 19904-90</p>
	<p>Annual requirement: 500 kg</p>
	<p>Circle d-45mm – d50 steel 40X (Kalmakyr)</p>
	<p>GOST 2590-88, 4543-71</p>
	<p>Annual requirement: 15.4 tons</p>
	<p>Circle d-50mm steel 40X - 100 mm (Kalmakyr)</p>
	<p>GOST 2590-88, 4543-71</p>
	<p>Annual requirement: 42 tons</p>
	<p>Circle d-120mm st.45 -130 (Kalmakyr)</p>
	<p>GOST 2590-88, 1050-88</p>
	<p>Annual requirement: 10 tons</p>
	<p>Circle d 300 mm steel 45 (Kalmakyr)</p>
	<p>GOST 2590-88, 1050-88</p>
	<p>Annual requirement: 3 tons</p>
	<p>Sheet g/rolled b=40 – 100 mm st.3sp (Kalmakyr)</p>
	<p>GOST 19903-74, 14637-89</p>
	<p>Annual requirement: 202 tons</p>

	<p>Sandpaper 14A-15A 12N fabric waterproof</p>
	<p>According to the manufacturer's GOST</p>
	<p>Annual requirement: 40 linear meters</p>
	<p>Sandpaper 14A-15A 16N fabric waterproof</p>
	<p>According to the manufacturer's GOST</p>
	<p>Annual requirement: 100 running meters</p>
	<p>Machine turning center No. 4-5 (Kalmakyr)</p>
	<p>According to the manufacturer's GOST</p>
	<p>Annual requirement: 10 pcs.</p>
	<p>Lathe chuck D-250 (Kalmakyr)</p>
	<p>GOST 3889</p>
	<p>Annual requirement: 3 pcs .</p>
	<p>Machine turning center No. 2 (Kalmakyr)</p>
	<p>According to the manufacturer's GOST</p>
	<p>Annual requirement: 4 pcs .</p>
	<p>Three-jaw drill chucks with key PS- 6-10</p>
	<p>According to the manufacturer's GOST</p>
	<p>Annual requirement: 8 pcs .</p>



**Grinding machine
MSHU-1-20-230 (BULGARKA) (Kalmakyr)**

According to the manufacturer's GOST

Annual requirement: 6 pcs



Paint spray gun SO-6 A, B (Kalmakyr)

According to the manufacturer's GOST

Annual requirement: 2 pcs.



Electric drill W 500 W 6130 SKIL (Kalmakyr)

According to the manufacturer's GOST

Annual requirement: 4 pcs.



Ballast rheostat RB-301 (Kalmakyr)

According to the manufacturer's GOST

Annual requirement: 6 pcs.



Single-post welding rectifiers 315A VD-306 (Kalmakyr)

According to the manufacturer's GOST

Annual requirement: 10 pcs.



Single-post welding rectifiers 500A VDU-505(506) (Kalmakyr)

According to the manufacturer's GOST

Annual requirement: 4 pcs .



Ballast rheostat RB-306 (Kalmakyr)

According to the manufacturer's GOST

Annual requirement: 2 pcs



Oxygen reducer BKO-50 (Kalmakyr)

According to the manufacturer's GOST

Annual requirement: 50 pcs.



Propane-butane reducer BPO-5-4 (Kalmakyr)

According to the manufacturer's GOST

Annual requirement: 50 pcs.



**Cutter for manual and machine
RZP, R2-01 (MAYAK-2-02) (Kalmakyr)**

According to the manufacturer's GOST

Annual requirement: 50 pcs.



**Textile loop sling
STP-3 Q=2t, L=1m (Kalmakyr)**

GOST 34875-2022







Annual requirement: 20 pcs.















Textile loop sling STP-3 Q=3t L=3m (Kalmakyr)


GOST 34875-2022



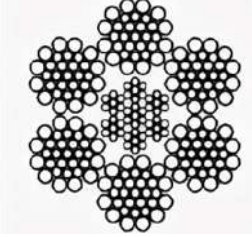
Annual requirement: 20 pcs .

	<p>Textile loop sling \STP-3 Q=5t, L=5m (Kalmakyr)</p> <p>GOST 34875-2022</p> <p>Annual requirement: 20 pcs</p>
	<p>Textile loop sling STP-3 Q=8t, L=5m (Kalmakyr)</p> <p>GOST 34875-2022</p> <p>Annual requirement: 20 pcs.</p>
	<p>Textile loop sling STP-3 Q=8 t, L=8 m (Kalmakyr)</p> <p>GOST 34875-2022</p> <p>Annual requirement: 20 pcs.</p>
	<p>Textile loop sling STP-6 Q=10t, L=5m (Kalmakyr)</p> <p>GOST 34875-2022</p> <p>Annual requirement: 20 pcs.</p>
	<p>Textile loop sling STP-3 Q=2t, L=1m (Kalmakyr)</p> <p>GOST 34875-2022</p> <p>Annual requirement: 20 pcs.</p>
	<p>Textile loop sling STP-6 Q=10t, L=8m (Kalmakyr)</p> <p>GOST 34875-2022</p> <p>Annual requirement: 20 pcs .</p>

	<p>Textile loop sling STP-6 Q=12 t L=10 m (Kalmakyr)</p> <p>GOST 34875-2022</p> <p>Annual requirement: 20 pcs</p>
	<p>Textile round-strand sling 1STK Q-3 t L-1 m (Kalmakyr)</p> <p>GOST 34875-2022</p> <p>Annual requirement: 20 pcs.</p>
	<p>Round-strand textile sling 1 STK Q=5t, L=2m (Kalmakyr)</p> <p>GOST 34875-2022</p> <p>Annual requirement: 20 pcs.</p>
	<p>Round-strand textile sling 2STK Q=3 t L=2 m (Kalmakyr)</p> <p>GOST 34875-2022</p> <p>Annual requirement: 20 pcs.</p>
	<p>Round-strand textile sling 2STK Q=5t, L=3m (Kalmakyr)</p> <p>GOST 34875-2022</p> <p>Annual requirement: 20 pcs.</p>
	<p>Textile round-strand sling 4STK Q=5t, L=3m (Kalmakyr)</p> <p>GOST 34875-2022</p> <p>Annual requirement: 20 pcs .</p>

	<p>Round-strand textile sling 4STK Q=5 t L=5 m (Kalmakyr)</p> <p>GOST 34875-2022</p> <p>Annual requirement: 20 pcs</p>
	<p>Hook - 5 (Kalmakyr)</p> <p>GOST 6627-74</p> <p>Annual requirement: 20 pcs.</p>
	<p>Hook 3.2 tons (Kalmakyr)</p> <p>GOST 6627-74</p> <p>Annual requirement: 16 pcs.</p>
	<p>Hook 2 (Kalmakyr)</p> <p>GOST 6627-74</p> <p>Annual requirement: 16 pcs.</p>
	<p>Crown gear m-16, z-278</p> <p>According to the manufacturer's GOST</p> <p>Annual requirement: 2 pcs.</p>
	<p>Eccentric 1275.03.300-5sb k KMD-2200 T1 VD assembled with a conical sleeve</p> <p>According to the manufacturer's GOST</p> <p>Annual requirement: 4 pcs.</p>

	<p>Membrane plate for press filter KA75/1600 Z1.2 Thickness 80-87 mm</p> <p>According to the manufacturer's GOST</p> <p>Annual requirement: 36 pcs.</p>
	<p>Channel 14, 16, 18</p> <p>GOST 8240-97, 535-88</p> <p>Annual requirement: 15.2 tons</p>
	<p>I-beam 24, 27, 36</p> <p>GOST 8239-89, 535-88</p> <p>Annual requirement: 16.4 tons</p>
	<p>Corner 100x100</p> <p>GOST 8509-93, 535-88</p> <p>Annual requirement: 4 tons</p>
	<p>Steel circle d=36, d=100, d=120 mm steel 45</p> <p>GOST 2590-88, 1050-88</p> <p>Annual requirement: 23.5 tons</p>
	<p>Hot-rolled pipe F219, 273, 325, 377, 426 mm</p> <p>GOST 8732-78, 8731-74</p> <p>Annual requirement: 101.5 tons</p>

	<p>Sheet x/rolled b=2, 4, 6, 8, 10, 12, 20, 40 mm St. 3sp</p> <p>GOST 19904-90, 16523-89 GOST 19903-74, 14637-89</p> <p>Annual requirement: 208.4 tons</p>
	<p>Steel rope Ø 12, 18, 4.1 mm</p> <p>GOST 2688-80</p> <p>Annual requirement: 788 m</p>
	<p>Steel rope Ø 8.3, 17.5 mm (MOF-2)</p> <p>GOST 3069-80</p> <p>Annual requirement: 204 m</p>
	<p>Steel rope Ø 8.5; 13.5; 14 mm (MOF-2)</p> <p>GOST 3077-80</p> <p>Annual requirement: 1774 m</p>
	<p>Steel rope Ø 11.5; 15.5 mm (MOF-2)</p> <p>GOST 3071-80</p> <p>Annual requirement: 690 m</p>
	<p>Steel rope Ø 15, 20, 23.5, 28, 31 mm (MOF-2)</p> <p>GOST 7667-80</p> <p>Annual requirement: 668 m</p>

	<p>Steel rope Ø 22, 30, 36.5 mm (MOF-2)</p>
	<p>GOST 7668-80, GOST 7667-82, GOST 7669-80</p>
	<p>Annual requirement: 330 m</p>
	<p>Pump compensator MS 80-400V I (CZ)</p>
	<p>EN 1092-1, GOST 33259-2015</p>
	<p>Annual requirement: 5 pcs.</p>
	<p>Elastic coupling for beam crane Q-3.5 tons (CL)</p>
	<p>According to the manufacturer's GOST</p>
	<p>Annual requirement: 20 pcs.</p>
	<p>Mechanical seal for pump MS80-400V I (CZ)</p>
	<p>According to the manufacturer's GOST</p>
	<p>Annual requirement: 5 pcs.</p>
	<p>Impeller of the pump MS 80-400V I (CZ)</p>
	<p>According to the manufacturer's GOST</p>
	<p>Annual requirement: 5 pcs.</p>
	<p>Elastic half-coupling Rexnord VIVA VS215 for pump SULZER APP44-150 (central locking)</p>
	<p>According to the manufacturer's GOST</p>
	<p>Annual requirement: 10 computers</p>



**Steel wire, carded, round,
0.22-1-L-55 (TsZ)**

GOST 3875-83

Annual requirement: 70 kg



Steel Rope D12

GOST 2688-80

Annual requirement: 144 m



**Steel rope B16.5
(ChRU)**

GOST 2688-80

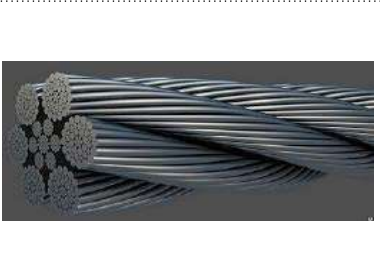
Annual requirement: 699 m



**Steel rope D15.5
(ChRU)**

GOST 3079-80

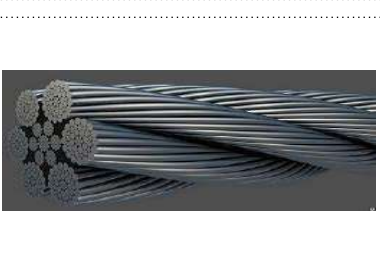
Annual requirement: 823 m



steel rope d.39.5

GOST 2688-80

Annual requirement: 232 p/m



steel rope d.29

GOST 2688-80

Annual requirement: 310 p/m



Gear 1080.33.50 for EKG-4.6; 5A

1080.33.50

Annual requirement: 4 pcs.



Round link chain type A 20x56 mm

GOST 2319-81

Annual requirement: 0.8 tons



Round link chain type A 23x67 mm

GOST 2319-81

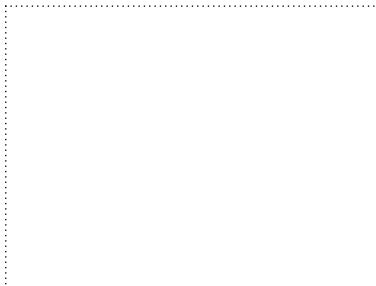
Annual requirement: 1 ton



Steel rope d=39 mm

GOST 7669-80

Annual requirement: 1928 p/m



Steel rope d=45.5 mm

GOST 7669-80

Annual requirement: 9470 p/m



Steel rope d=52 mm

GOST 7669-80

Annual requirement: 43216 p/m



Steel rope d=57 mm

GOST 7669-80

Annual requirement: 13,600 p/m



D-244.5

GOST 20692-2003

Annual requirement: 1950 pcs.



Heavy rod diam. 203 SBSH-250 MNA 32

Annual requirement: 55 pcs.



Lightweight rod diameter 203 SBSH-250 MNA 32

Annual requirement: 166 pcs.



Chisel adapter SBSH-250 MNA 32

Annual requirement: 84 pieces



Adapter for support unit SBSH-250 MNA 32

Annual requirement: 42 pcs.



Coupling for a heavy rod, diameter 203 RD-10

GOST 7909-56

Annual requirement: 42 pcs.



**Coupling for a light rod
IIIY.00.001M**

IIIY.00.001M

Annual requirement: 42 pcs.



**Nipple for a heavy rod
IIIJ1200M-00.019M**

IIIJ1200M-00.019M

Annual requirement: 42 pcs.



**Nipple for a light rod
IIIJ1200M-00.019M**

Annual requirement: 42 pcs.



**Bolts for rail joints of railway tracks complete with nuts
M27x160-180**

GOST 11532

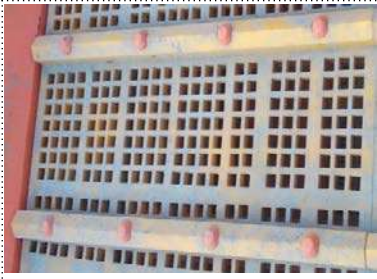
Annual requirement: 21.94 tons

Terminal bolt M22x75 with nut

GOST 16016

Annual requirement: 0.186 tons

	<p style="text-align: center;">Gear wheel m-20 z-42 for EKG-8I</p> <p style="text-align: center;">drawing 3519.05.10.610</p> <p style="text-align: center;">Annual requirement: 1 piece</p>
	<p style="text-align: center;">Combined ring current collector TKE 23-5UKHL2</p> <p style="text-align: center;">TU3414-001-21900434-2006</p> <p style="text-align: center;">Annual requirement: 2 pcs.</p>
	<p style="text-align: center;">Membrane plate for filter press KA100/1600Z1.2 (ARU)</p> <p style="text-align: center;">Annual requirement: 24 pcs.</p>
	<p style="text-align: center;">Chamber plate for filter press KA100/1600Z1.2 (ARU)</p> <p style="text-align: center;">Annual requirement: 12 pcs.</p>
	<p style="text-align: center;">Membrane plate for press filter KA75/1600 Z1.2 (MOF-2)</p> <p style="text-align: center;">Annual requirement: 18 pcs.</p>
	<p style="text-align: center;">Pressure strip (L=500)</p> <p style="text-align: center;">drawing No. 29-8330</p> <p style="text-align: center;">Annual requirement: 30 pcs.</p>



Pressure strip (L= 500) , (L=1000)

(MOF)

drawing No. 29-8330, No. 29-8331

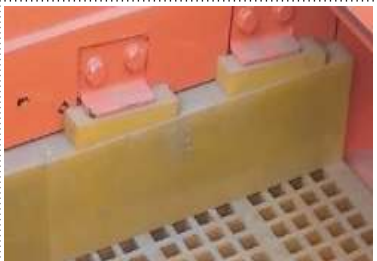
Annual requirement: 30 pcs, 165 pcs



Klin (MOF)

drawing No. 29-8332

Annual requirement: 156 pcs.



Side lining (L=500) (MOF)

drawing No. 29-8333

Annual requirement: 12 pcs.



Side lining (L=1000) (MOF)

drawing No. 29-8333

Annual requirement: 66 pcs.



Sieve 780×500 (upper tier) (MOF)

drawing No. 29-8335

Annual requirement: 9 pcs.



Sieve 780×1000 (upper tier) (MOF)

drawing No. 29-8336-00

Annual requirement: 54 pcs.



Sieve 8x50 (780×500) (lower tier) (MOF)

drawing No. 29-8381-00

Annual requirement: 9 pcs.



Sieve 8×50 (780×1000) (lower tier) (MOF)

drawing No. 29-8380-00

Annual requirement: 45 pcs.



Cap for pressure strip (MOF)

drawing No. 29-8337

Annual requirement: 720 pcs.



Axial piston pump for filter press KA100/1600Z1.2 (ARU)

GOST 2688-80

Annual requirement: 1 piece



Steel rope Ø-22 mm, Ø-23.5 mm, Ø-31 mm, Ø-36.5 mm, Ø-30 mm, Ø-28 mm (MOF-2)

GOST 7667-80, GOST 7668-80, GOST 7669-80

Annual demand: 240m, 160m, 80m, 30m, 60m, 168m



Steel rope Ø 8.5 mm, Ø-11.5 mm, Ø-13.5 mm, Ø-15.5 mm, Ø-14 mm, Ø-15 mm, Ø-20 mm, (MOF-2)

GOST 3077-80, GOST 3077-80, GOST 7667-80,

Annual demand: 176m, 392m, 1480m, 298m, 118m, 120m, 140m



Welding rectifier VDM 6301

GOST 15150-69

Annual requirement: 3 pcs.



Tip-Top glue

Annual requirement: 419 kg



Hardener for Tip-Top glue (bottle)

Annual requirement: 419 kg



Jaw crusher DSh 100x200

Annual requirement: 1 piece



Roll crusher DVG 200x125

Annual requirement: 1 piece



Babbitt B-83

GOST 1320-74

Annual requirement: 0.064 tons



Crown gear m-16, z-278

Drawing No. 1342.08.265-2sb

Annual requirement: 2 pcs.



End loading wall

Drawing No. 1342.02.202-1sb

Annual requirement: 1 piece



End unloading wall

Drawing No. 1342.04.201-1sb

Annual requirement: 1 piece



Eccentric 1275.03.300-5sb for KMD-2200 T1

Damn. 1275.03.300-5sb

Annual requirement: 4 pcs.



Membrane plate for press filter KA75/1600 Z1.2

Annual requirement: 18 pcs.



Chamber plate for press filter KA75/1600 Z1.2

GOST 1320-74

Annual requirement: 18 pcs.



Cold rolled pipes d 38x3 steel 20.

GOST 8734-75, 8733-74

Annual requirement: 2 tons



Cold rolled pipes d 32x3 steel 20.

GOST 8734-75, 8733-74

Annual requirement: 3 tons



Cold rolled pipes d 57x3 steel 20.

GOST 8734-75, 8733-74

Annual requirement: 1 ton



Cold-rolled pipes d 57x4 steel 20

GOST 8734-75, 8733-74

Annual requirement: 1 ton



Cold-rolled pipes d 60x3 steel 20

GOST 8734-75, 8733-74

Annual requirement: 3 tons



Hot rolled pipes d 76x4 steel 20.

GOST 8734-75, 8733-74

Annual requirement: 3.6 tons



Hot rolled pipes d 89x5 steel 20.

GOST 8734-75, 8733-74

Annual requirement: 1.3 tons



Cold rolled pipes d 108x6 steel 20.

GOST 8734-75, 8733-74

Annual requirement: 10 tons



Connecting sleeve R-17

GOST 2593-82

Annual requirement: 600 pcs.



Connecting sleeve R-25

GOST 1335-84

Annual requirement: 300 pcs.



Piston compression ring CVP 34.08.00.02-009

34.08.00.02-009

Annual requirement: 200 pcs.



Piston compression ring TsND 34.05.00.04.002

34.05.00.04.002

Annual requirement: 400 pcs.



Injector D50.17.1SB

D50.17.1SB

Annual requirement: 60 pcs.



Electropneumatic valve VV-1113U3, Ikat=75V 5TX.520.366-03Sp

5TX.520.366-03Sp

Annual requirement: 40 pcs.



Driver's crane Condition No. 395

Condition No. 395

Annual requirement: 5 pcs.



Upper connecting rod bushing, connecting rod trailer

5D49.17.8SPCh-3

Annual requirement: 16 pcs.



Upper main bearing

2-5D49.2.2spch







Annual requirement: 20 pcs.



Lower main bearing

2-5D49.2.1spch

Annual requirement: 20 pcs.

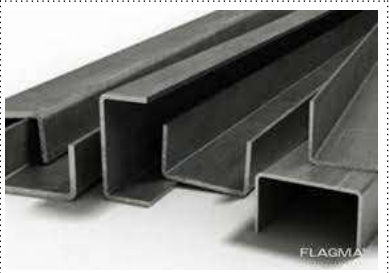
	<p align="center">Outer insert</p>
	<p align="center">D50.27.048A</p>
	<p align="center">Annual requirement: 20 pcs.</p>
	<p align="center">Lower bushing of the connecting rod</p>
	<p align="center">5D49.17.9SPCh-3</p>
	<p align="center">Annual requirement: 16 pcs.</p>
	<p align="center">Medium liner</p>
	<p align="center">D50.27.047A</p>
	<p align="center">Annual requirement: 10 pcs.</p>
	<p align="center">Connecting rod bearing</p>
	<p align="center">D50.24.004-1A</p>
	<p align="center">Annual requirement: 120 pcs.</p>
	<p align="center">Protection valve VZ-57-02</p>
	<p align="center">6TN.295.057-02</p>
	<p align="center">Annual requirement: 26 pcs.</p>
	<p align="center">Air moderator cond.</p>
	<p align="center">No. 134</p>
	<p align="center">Annual requirement: 6 pcs.</p>



Lead pig C-1 (MOF-2)

GOST 3778-98

Annual requirement: 0.26 tons



Channel 14, 16, 18 (MOF-2)

GOST 8240-97, 535-88

Annual demand: 3 tons, 6.55 tons, 5.63 tons



I-beam 24, 27, 36 (MOF-2)

GOST 8239-89, 535-88

Annual requirement: 0.412 tons, 6 tons, 10 tons



Corner 100x100 (MOF-2)

GOST 8509-93, 535-88

Annual requirement: 4 tons



Steel circle d-36 mm, d- 100 mm, d- 120 mm (MOF-2)

GOST 2590-88, 1050-88

Annual demand: 16.4 tons, 3 tons, 4.08 tons



Hot-rolled pipe d- 159, d- 219, d- 273, d- 325, d- 377, d- 426 mm (MOF-2)

GOST 8732-78, 8731-74

Annual demand: 31 tons, 27.5 tons, 10 tons, 15 tons, 8 tons, 10 tons

	<p>Cold-rolled sheet b=2 mm (MOF-2)</p> <p>GOST 19904-90, 16523-89</p> <p>Annual requirement: 9.7 tons</p>
	<p>Rolled sheet b=4mm, b=6mm, b=8mm (MOF-2)</p> <p>GOST 19903-74, 14637-89</p> <p>Annual demand: 10.8 tons, 30.9 tons, 40.8 tons</p>
	<p>Rolled sheet b=10mm, b=12mm, b=20mm, b=40mm, (MOF-2)</p> <p>GOST 19903-74, 14637-89</p> <p>Annual demand: 31.1 tons, 16.6 tons, 28.9 tons, 39.5 tons</p>
	<p>Steel rope Ø 4.1 mm, Ø-12 mm, Ø-18 mm, (MOF-2)</p> <p>GOST 2688-80</p> <p>Annual demand: 600m, 28m, 160m</p>
	<p>Steel rope Ø 8.3 mm, Ø 17.5 mm (MOF-2)</p> <p>GOST 3069-80</p> <p>Annual requirement: 104m, 100m</p>
	<p>Chamber plate for press filter KA75/1600 Z1.2 (MOF-2)</p> <p>Annual requirement: 18 pcs.</p>

Process and Technological Equipment Products



Fleets reagent oskal T-92 (MOF)

TU 2452-029-05766801-94

Annual requirement: 2418 (MOF)
304 (MOF-2)



Anionic flocculant (AFO)

GOST 14192-96, GOST 17527-2014, GOST 7927-75

Annual requirement: 13.54 tons



Filter jacket made of heat-stabilized polypropylene fabric for press filters

Outo tecLarox PF-60 (MOF)

GOST 8737-77 GOST 29104.0-91, GOST 29104.3-91,
GOST 29104.4-91

Annual requirement: 48 comp.



Photoreagent collector 442 F (MOF)

YS/N280-2011, GOST 14192-96, GOST 17527-2014,
GOST 24297

Annual requirement: 270 tons



Reinforced polyamide filter fabric, art. TFPA 56035-U (nylon) (MOF)

GOST 8737-77 GOST 29104.0-91, GOST 29104.1-91, GOST 29104.3-91, GOST 29104.4-91, GOST 12088-77, 29104.9-91

Annual requirement: 9711 p/m



Fabric FPP art. KS-34-110 (MOF)

GOST 8737-77 GOST 29104.0-91, GOST 29104.1-91, GOST 29104.3-91, GOST 29104.4-91, GOST 12088-77, 29104.9-91

Annual requirement: 444 computers.



**Foaming agent MIBK (metiiz) obutylcarbinol (MIBC)
(Handiza)**

In accordance with HG/T 4774-2014.

Annual requirement: 37 tons



Sodium hydrosulfite technical (Handiza)

In accordance with GOST 246-76

Annual requirement: 178.4 tons



**Complexonate (reagent) OPTION-785-2 TU 2439-024-24210860
(SGE)**

TU 2439-024-24210860

Annual requirement: 16,350 kg



Ferrosilicon FS-45 (MPZ)

GOST 1415-93

Annual requirement: 0.49 tons



Filter paper (Handiza)

GOST 12026-76

Annual requirement: 800 kg



Wire enamel varnish Terebec SL225/40 (MPZ)

In accordance with the manufacturer's GOST

Annual requirement: 48,000 kg



Catalyst - (contact mass) SVNT (KD) (MPZ)

In accordance with TU 48-0323-6-90

Annual requirement: 135 tons



Catalyst - (contact mass) BASF 04-110-04-111 (MPZ)

In accordance with the manufacturer's GOST

Annual requirement: 96.35 tons



Thiourea (MPZ)

GOST 6344-73

Annual requirement: 12638 kg



Varnish HS-76 (MPZ))

GOST 24494-79

Annual requirement: 4069 kg



Titanium sheet grade VT-4 b-3.5:4.0 mm (MPZ)

GOST 22178-78

Annual requirement: 623.7 kg



Drilling steel Ø25 mm (MPZ)

GOST 14959-75

Annual requirement: 3030 kg



Asbestos crumbs (APC)

GOST 12871-9

Annual requirement: 46 tons



Potassium permanganate, analytical grade (MPZ)

In accordance with GOST 20940-75

Annual requirement: 4.9 tons



Fireproof crucibles AA100 T1-T2

In accordance with
TU 1590-020-00221209-04

Annual requirement: 375 pcs.



Aluminum powder

GOST 6058-7

Annual requirement: 36 tons



Bone glue

In accordance with GOST 2067-93

Annual requirement: 3.2 tons



Technical carbon T-900

GOST 7885-86

Annual requirement: 174 kg



Ion exchange resin PUROLITE SIM202/4408

In accordance with the manufacturer's GOST

Annual requirement: 785.4



Reduced iron powder PZhV 5.450.26

GOST 9849-86

Annual requirement: 14499 tons



Lead for pig anodes C-1 (TsZ)

GOST 3778

Annual requirement: 167 tons



Hard-worked aluminum sheet 6x660x1100 A5N (CZ)

TU 48-21-635-79

Annual requirement: 208 tons



Copper strip M-1 (CZ)

TU 48-21-77-72

Annual requirement: 1.8 tons



Packaging tape (steel) (TsZ), (MPZ)

GOST 3560-73

Annual requirement: 538 tons



Quartz tube Ø-18.0 mm (CZ)

TU 21-42-90

Annual requirement: 184.3 kg



Caustic soda (sodium hydroxide) (CS)

GOST 2263-79

Annual requirement: 90 tons



Universal pH indicator paper

In accordance with TU 6-09-3919-83

Annual requirement: 160 pcs.



Asbestos fabric grade AT-4

GOST 6102-94

Annual requirement: 1744 m²



Coke breeze (CB)

TU 14-7-115-89

Annual requirement is 27,022 tons



Technical gelatin (TsZ)

GOST 11293-89

Annual requirement: 800 kg



Discharge suction hoses class "KSCH" (TsZ)

GOST 5398-76

Annual requirement: 98 p/m



Sliding seals for pump NMA 80-315 (TsZ)

In accordance with the manufacturer's technical documentation.

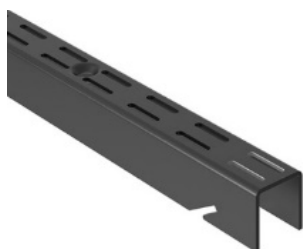
Annual requirement: 5 pcs.



**UHP graphite electrodes d-300x1800x200Ø mm for furnaces
ICC-40 No. 1-4 (TsZ)**

GOST R57613-2017

Annual requirement: 96 pcs.



Graphite strut (CZ)

In accordance with the manufacturer's technical documentation.

Annual requirement: 12 pcs.



Graphite shaft (CS)

In accordance with the manufacturer's technical documentation.

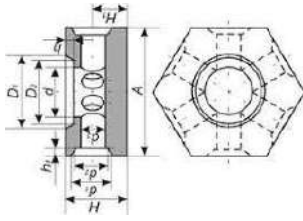
Annual requirement: 12 pcs.



Zinc concentrate (ZC)

GOST 54922-2012

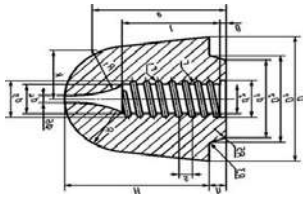
Annual requirement is 154,371 cmt



4-way sprocket III C-28 №30 for siphon pouring

GOST 11586-2005

Annual requirement: 4.9 tons



Insert PSP 36 №40 stopper for steel casting

GOST 5500-2001

Annual requirement: 3.9 tons



Funnel III C-32 №1 for siphon pouring

GOST 11586-2005

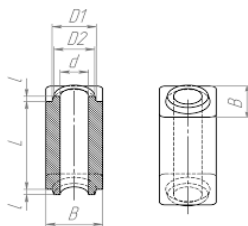
Annual requirement: 5.3 tons



Stopper plug III C II-32 №9

GOST 5500-2001

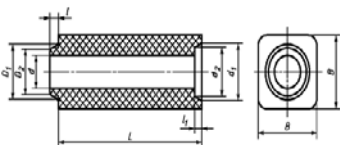
Annual requirement: 43.7 tons



Span tube III C-28 №69 for siphon casting

GOST 11586-2005

Annual requirement: 3.9 tons



End tube III C-28 №84 for siphon pouring

GOST 11586-2005

Annual requirement : 3.6 tons



Exothermic insert ZTL-1

NTD of the manufacturer

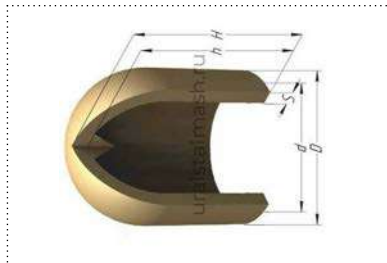
Annual requirement: 1000 pcs .



Narrow-necked conical exothermic inserts (open type) UK-6, complete with lids

NTD of the manufacturer

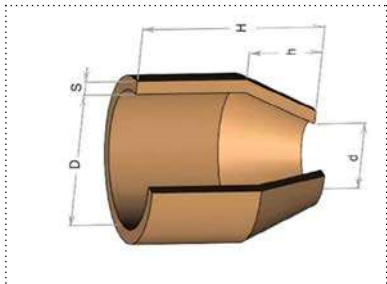
Annual requirement: 2000 pcs.



Narrow-necked conical exothermic inserts (open type) UK-8/1, complete with lids

NTD of the manufacturer

Annual requirement: 5500 pcs.



Narrow-necked conical exothermic inserts (open type) UK-5 complete with a lid

NTD of the manufacturer

Annual requirement: 1800 pcs.



Oxide Filter

NTD of the manufacturer

Annual requirement: 2800 pcs.



Furfuryl alcohol 98%

GOST 28960-91

Annual requirement : 80 tons



Chromic anhydride

GOST 2548-77

Annual requirement: 250 kg



Polytop FS3

NTD of the manufacturer

Annual requirement: 1632 kg



Steel shot DSL fr. 3.2 mm

GOST 11964-81

Annual requirement: 52 tons



Plywood, birch, FC, I/III, E1, III2

GOST 3916.1-2018

Annual requirement: 39 m3



Tip-Top glue

NTD of the manufacturer

Annual requirement: 12 kg



Quartzite ZKV-97 Pervouralsky

NTD of the manufacturer

Annual requirement 4.8 tons



Silicocalcium SK 25

GOST 4762-71

Annual requirement: 29 tons



Ferromanganese FMn 95 (Mn not less than 95%)

NTD of the manufacturer

Annual requirement: 1500 tons



Ferrochrome FH-100 A

GOST 4757-91

Annual requirement: 180 tons



Ferrochrome FH-850 A

GOST 4757-91

Annual requirement: 150 tons



Ferrovanadium FV 80

GOST 27130-94

Annual requirement: 35 , 52 tons



Nickel H-1

GOST 849-2018

Annual requirement : 15 tn



Tin O1

GOST 860-75

Annual requirement: 6 tons



Sodium silicate

GOST 13079-93

Annual requirement: 14.3 tons



Thermal orthophosphoric acid 73%

GOST 10678-2019

Annual requirement: 44 tons



Sodium fluorosilicate 98

GOST 87-66

Annual requirement: 90 kg



**Carbon-containing material
fraction 0.5-4.0 mm**

NTD of the manufacturer

Annual requirement: 100 tons



Non-stick zirconium coating CS-1

GOST 10772

Annual requirement : 27 tons

Power and Energy Equipment Products



Electric motor DEV-812 (DPV-812), 120 kW, 750 rpm, 305 V

In accordance with the manufacturer's GOST

Annual requirement: 13 pcs.



Electric motor DPE 350(D)-2U2, 350 kW, 440 V, 900 rpm

In accordance with the manufacturer's GOST

Annual requirement: 4 pcs.



Electric motor DPE 560D-2UKHL2, 560 kW, 440 V, 1370 A, 850 rpm

In accordance with the manufacturer's GOST

Annual requirement: 4 pcs.



Generator 4GPEM 55-2/1U2, 55 kW, 375 V, 147 A, 1480 rpm

In accordance with the manufacturer's GOST

Annual requirement: 4 pcs.



Electric motor DPM-31OM1 12 kW, 1310 rpm, 220V, 65A

In accordance with the manufacturer's GOST

Annual requirement: 4 pcs.



Electric motor DPE 225-2 (2U1), 225 kW, 300 V, 815 A, 720 rpm

In accordance with the manufacturer's GOST

Annual requirement: 4 pcs.



VKS 5/24 centrifugal condensate pump 11/1500

In accordance with the manufacturer's GOST

Annual requirement: 5 pcs.



UNDO 4-125 pump on a plate with an electric motor for general industrial use

In accordance with the manufacturer's GOST

Annual requirement: 15 pcs.



Low-voltage device NKU for EKG-10

GOST R 51321 1 - 2007 (IEC 60439-1:2004) in accordance with E.NL.0110 TU.

: 2 kt



Low-voltage switchgear unit for drilling rig type SBSH250MNA-32

GOST R 51321 1 - 2007 In accordance with E.NL.0200 TU

Annual requirement: 2 sets



Schneider Electric ATV71HD90N4 90 kW frequency converter

GOST 24607—in accordance with Schneider Electric technical documentation

Annual requirement: 2 pcs.



ABB ACS880-01-246A-3+C135+D150+F904+F944 132 kW (R8) frequency converter

GOST 24607—88 In accordance with the technical documentation of ABB frequency converters of the general industrial series ACS880-01

Annual requirement: 2 pcs.



Vibrator IV-107A (CHP)

GOST 8882-75

Annual requirement: 4 pcs.



Frequency meter E371 (TPP)

GOST 8.422-81 TU 25-04.1097-69

Annual requirement: 2 pcs.



Surge arrester OPNP-110 (TPP)

GOST 52725-2007

Annual requirement: 3 pcs.



Wattmeter D365 (CHP)

GOST 8.422-81 TU 25-04.1097-69

Annual requirement: 15 pcs.



DeltabarM PMD55 differential pressure measurement (CHP)

NTD of the manufacturer

Annual requirement: 21 pcs.



Ecograph Universal Paperless Recorder (CHP)

NTD of the manufacturer

Annual requirement: 12 pcs.



**Matron temperature transducer
(CHP)**

GOST 52931

Annual requirement: 9 pcs.



Thermal converter THK (CHP)

GOST 8.585-2001

Annual requirement: 16 pcs.



DRT-33 engine (ARU)

GOST 14254-96

Annual requirement: 12 pcs.



DRT-12 engine (ARU)

GOST 14254-96

Annual requirement: 12 pcs.



Thermocouple POSITHERM TS360312 GR. B IPTS 68 (CRMZ)

In accordance with the manufacturer's GOST

Annual requirement: 400 pcs.



**Thermocouple
POSITHERM TS360304 Group B IPTS 68 (CRMZ)**

In accordance with the manufacturer's GOST

Annual requirement: 1600 pcs.



**Battery
4 PZS560 80V 560Ah (40 pcs) (TsRMZ)**

In accordance with the manufacturer's GOST

Annual requirement: 2 computers



Battery TNZh-350 U2 (TsRMZ)

In accordance with the manufacturer's GOST

Annual requirement: 72 pcs.



Battery 36TNZh-500 (TsRMZ)

In accordance with the manufacturer's GOST

Annual requirement: 1 piece



LED strip (duralight) mine design 127 volts 7-14W (Khandiza)

GOST 14254-80 IP67

Annual requirement: 3000 m



Mine starter PRN 250A

In accordance with the manufacturer's GOST

Annual requirement: 3 pcs.



Starter mPRN-63 60A

GOST 24754

Annual requirement: 3 pcs.



Varnish ML-92 (UES)

GOST 15865-70

Annual requirement: 6 tons



Vacuum circuit breaker with spring-motor drive VVU-SESH-PZ-10-20 1000 U-2 (Handiza)

GOST R

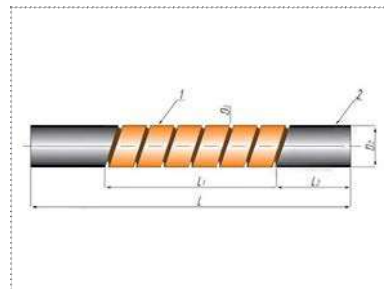
Annual requirement: 2 pcs.



Switch/automatic circuit breaker E40 4000A (Handiza)

GOST R

Annual requirement: 1 piece



Single-spiral silicon carbide heater KEN-S Type SC 14x230x650. Total length - 650 mm, outer diameter - 14 mm (Handiza)

In accordance with the manufacturer's GOST

Annual requirement: 12 pcs.



Insert for synchronous electric motor SDV-15-49-12U3 800 kW (5BSh. 263.002-1.2R) bearing 160x160 (Khandiza)

In accordance with the manufacturer's GOST

Annual requirement: 2 pcs.



Mine lighting apparatus AOSh (Khandiza)

In accordance with the manufacturer's GOST

Annual requirement: 2 pcs.



ABB Soft Starter 1SFA896115R7000 PSR105-600-70

GOST 24607—88 In accordance with the technical documentation of ABB frequency converters of the general industrial series ACS880-01

Annual requirement: 5 pcs.



Schneider Electric Altistart 22 ATS22C41Q Soft Starter

Altistart 22 series soft starters

Annual requirement: 5 pcs.



Schneider Electric Altistart 22 ATS22D75Q

Altistart 22

Annual requirement: 10 pcs.



Combined ring current collector TKE-14-5UKHL2

TU 3414-001-21900434-2006

Annual requirement: 1 piece



Combined ring current collector TKE-23-5UKHL2

TU 3414-001-21900434-2006

Annual requirement: 2 pcs.



High-voltage ring current collector TKE-5-0UKHL1

TU 3414-001-21900434-2006

Annual requirement: 4 pcs.



Transformer TMBG21-500/6-U1 500 kVA

GOST 11677 - 85 TU RB 100211261.015-2001

Annual requirement: 1 piece



Power module E.NL.0110.10

GOST R 51321.1 - 2007 (IEC 60439-1:2004) must comply with E.NL.0110.10

Annual requirement: 10 pcs.



Power module E.NL.0110.25

GOST R 51321.1 - 2007 (IEC 60439-1:2004) must comply with E.NL.0110.25

Annual requirement: 20 pcs.



Welding rectifier VDM 6301

GOST 15150-69

Annual requirement: 3 pcs.



**Electric motor AZ-13-52-12 UHL4 250 kW
500 rpm 6000 V**

GOST 9630-80 Group E61

Annual requirement: 4 pcs.



**Synchronous electric motor
SDM-215-26/24 630 kW 250 rpm 6 kV**

GOST 18200-90 Group E61

Annual requirement: 1 piece



Block ODG 60/40 (CZ)

In accordance with GOST 3344–83

Annual requirement: 300 pcs.



pressure gauge (central lock)

GOST 28498-90

Annual requirement: 40 pcs.



Temperature converter (TC)

GOST 16920-93

Annual requirement: 150 pcs.



Frequency converter (FC)

GOST 16313-97

Annual requirement: 20 pcs.



Starter (CZ)

GOST 50030.4.1

Annual requirement: 100 pcs.



Relay (central locking)

GOST 17523-85

Annual requirement: 50 pcs.



pH electrode (CZ)

GOST 16287-77

Annual requirement: 150 pcs.



pH meter Liquiline M CM42 (central lock)

GOST 22729-84

Annual requirement: 10 pcs.



VUP block - 60/120 (TsZ)

GOST 3344-83

Annual requirement: 300 pcs.



Pressure transducer (PTC)

GOST 22520-85

Annual requirement: 10 pcs.



Valve block (CB)

GOST 859-2001

Annual requirement: 10 pcs.



Current clamp meter (CCM)

GOST 8.366-79

Annual requirement: 10 pcs.



Automatic circuit breaker (CC)

In accordance with P 50031-2012

Annual requirement: 84 pieces



Glass bandage tape LSBE 155 (UES)

TU 3491-071-31885305-2010

Annual requirement: 70 kg



Mica tape LSEP 934 TPI 0.13x20mm (UES)

TU-3492-090-50157126-2011

Annual requirement: 8000 kg



Glass fiber BSb-6.8x1x2 (UES)

GOST 8325-93

Annual requirement: 600 kg



Textolite 4mm-3-5-6-8-10-12-mm PT PTK

GOST 5-78

Annual requirement: 2.4 tons



Glass fiber laminate STEF 0.5-1.0-1.5-2.0 mm (UES)

GOST 12652-74

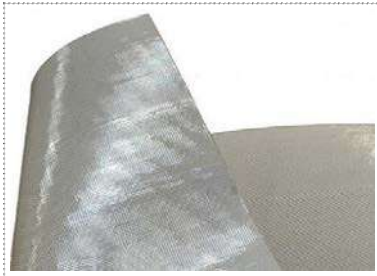
Annual requirement: 400 kg



Sintoflex 61-0.19-0.23-0.15-0.15x25 mm (UES)

TU-3491-088-05758799-2002 GOST 5937-81

Annual requirement: 1400 kg - 24000



Izoflex 0.17-0.25 (UES)

TU-3491-003-00214639-01

Annual requirement: 500 kg



Cable paper K-120 (UES)

GOST 23436-83

Annual requirement: 600 kg



Tube TKR-4-5-6-8 (UES)

TU 3491-001-41533292-2000

Annual requirement: 2400 running meters



Varnish PE-939/33 (UES)

TU 2311-066-00214639-97

Annual requirement: 2 tons



Controller KS-305 (AGC)

TU 3425-001-91577018-2011

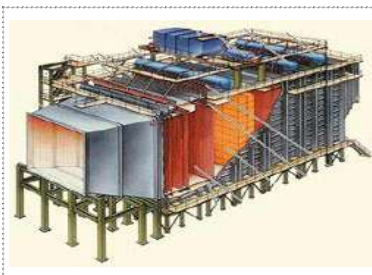
Annual requirement: 16 pcs.

Products Proposed for Localization at the New Copper Smelter Plant



Overhead crane for maintenance

Annual requirement : 2 pcs



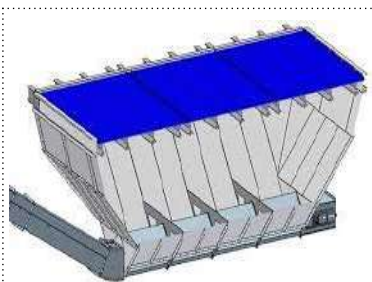
PVP matte granulation bath

Annual requirement : 3 pcs



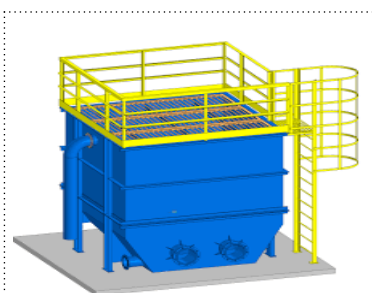
Single-rail maintenance winch

Annual requirement : 3 pcs



PVP matte granulation bath

Annual requirement : 3 pcs



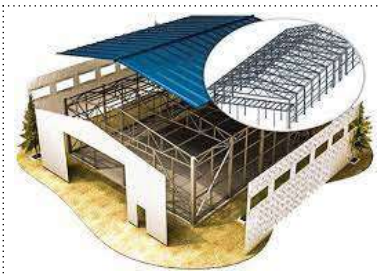
Sump for collecting top drain

Annual requirement : 3 pcs



Drainage pump for water

Annual requirement : 3 pcs



Storage of PVP matte

Annual requirement: 1 piece



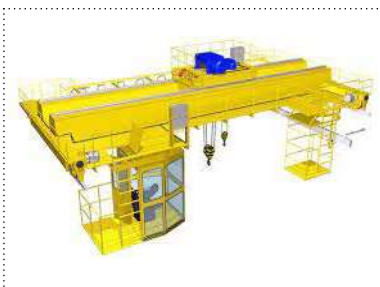
Drainage container

Annual requirement: 3 pcs.



Floor sump of the gas cleaning section

Annual requirement: 1 piece



Overhead crane for maintenance

Annual requirement: 1 piece



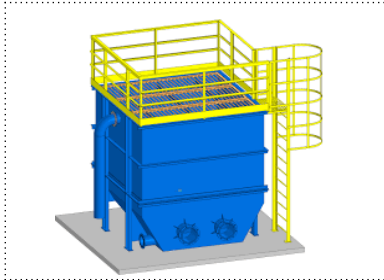
Molds for copper anodes

Annual requirement: 10 pcs.



Crane beam for maintenance

Annual requirement: 2 pcs.



Sump tank

Annual requirement: 2 pcs.



Electricity supply

Annual requirement: 16 pcs.



Drainage container

Annual requirement: 3 pcs.



Self-help emergency shower

Annual requirement: 3 pcs.



**Fiberglass flues from Quench
Ottovent to the gas cooling section**

Annual requirement: 500 rpm



Acid wires weak acid

Annual requirement: 250 rpm



Emergency water tank

Annual requirement: 2 pcs.



Floor sump of the gas cleaning section

Annual requirement: 1 piece



Condensate tank

Annual requirement: 1 piece



Liquid glass dosing tank

Annual requirement: 1 piece



Liquid glass supply tank

Annual requirement: 1 piece



Lifting equipment for maintenance

Annual requirement: 3 pcs.



Electrolysis baths

Annual requirement:



Polypropylene pipelines

Annual requirement:



Lifting equipment for maintenance

Annual requirement:



Various electrolyte tanks

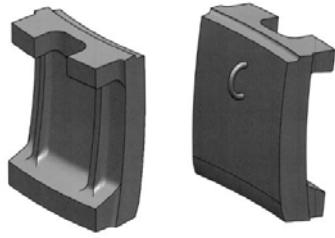
Annual requirement:



Self-help emergency shower

Annual requirement:

**Products Proposed for
Localization under
MOF-3**



Armor of the first belt

Drawing No. M3-0149Sb

Annual requirement: 18 pcs.



Second Belt Armor

Drawing No. M3-0150Sb

Annual requirement: 18 pcs.



Lower armor

Drawing No. M3-0154Sb

Annual requirement: 1 piece



Medium armor

Drawing No. M3-0154Sb

Annual requirement: 1 piece



Upper armor

M3-0002Sb

Annual requirement: 2 pcs.



Lower armor

M3-0001Sb

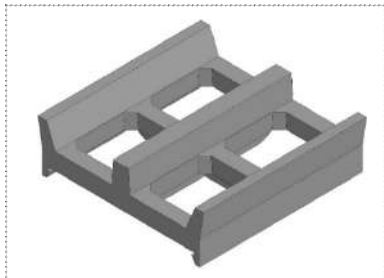
Annual requirement: 2 pcs.



The armor is immobile

M3-0003

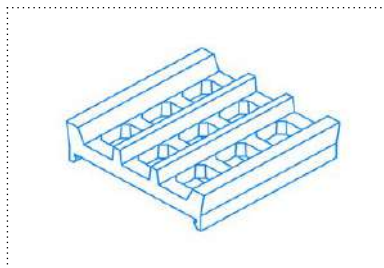
Annual requirement: 2 pcs.



Sieve with a 100x110 mesh

M3-0024

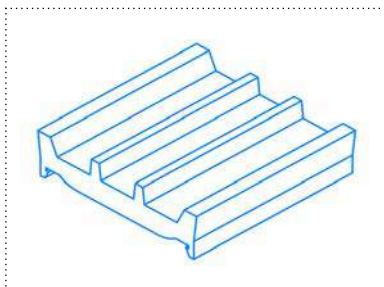
Annual requirement: 1840 pcs.



Sieve 65x60

M3-0023

Annual requirement: 1840 pcs.



Bottom tier blind sieve

M3-0027

Annual requirement: 1840 pcs.



Reinforced side bar

M3-0025

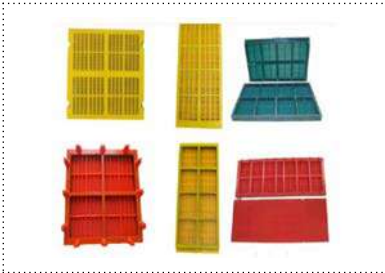
Annual requirement: 1840 pcs.



Sieve 305x305x30 mesh 2x9

PR.2168

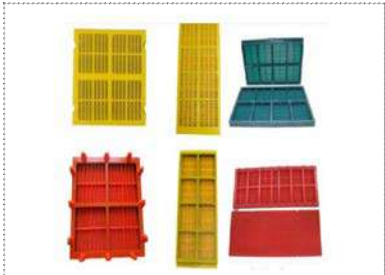
Annual requirement: 624 pcs.



Sieve 305x305x30 with side, cell size 2x9

M3-0088-00SB

Annual requirement: 144 pieces



Blind sieve 305x305x30

PR.2144.FD

Annual requirement: 144 pieces



Board 250-150

M3-0074-00SB

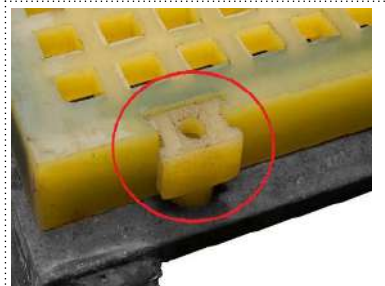
Annual requirement: 80 pcs.



Left-right wedge to the screens

M3-0076

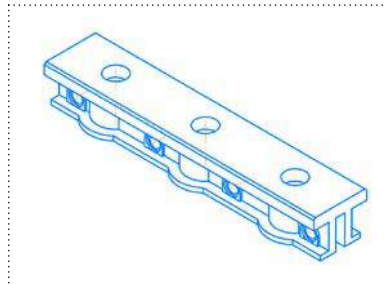
Annual requirement: 160 pcs.



Inner-outer piston

M3-0073

Annual requirement: 3040 pcs.



Brackets

M3-0091

Annual requirement: 760 pcs.



Sand nozzle No. 20064 R114R55

M3-0143

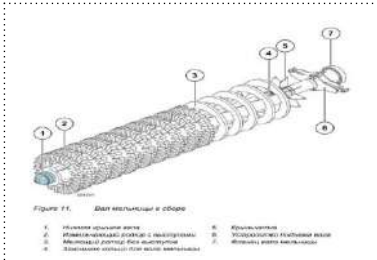
Annual requirement: 216 pcs.



Rotor spacer sleeve

Catalog number
N048626751

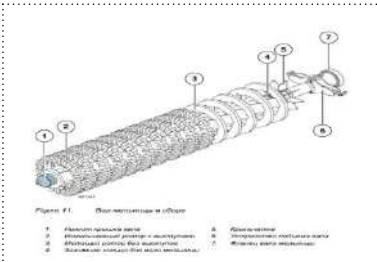
Annual requirement: 30 pcs.



Rubberized toothed rotor

Catalog number N048572207

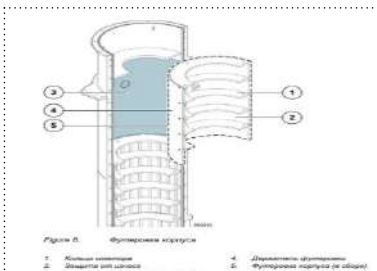
Annual requirement: 20 pcs.



Smooth rubberized rotor

Catalog number N048598657

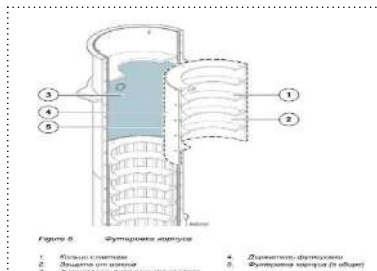
Annual requirement: 10 pcs.



Impeller

Catalog number N048584053

Annual requirement: 2 pcs.



Castellated

Catalog number N048768826

Annual requirement: 10 pcs.



Frame seal kit

F735744/SBR

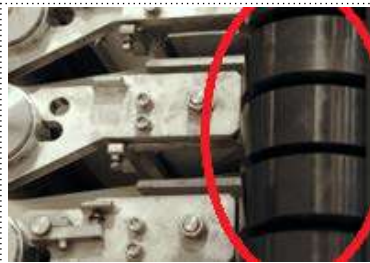
Annual requirement: 24 pcs.



Collector

P210852

Annual requirement: 8 pcs.



Collector

P211879

Annual requirement: 88 pcs.



Ring

P49279

Annual requirement: 30 pcs.



Compaction

L45905-1

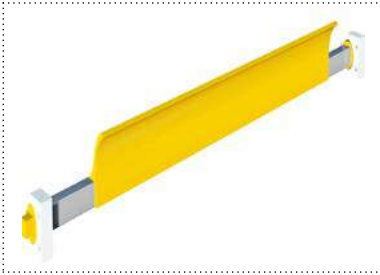
Annual requirement: 4 pcs.



Sleeve

L45934-3

Annual requirement: 4 pcs.



Scraper

F600649/PU

Annual requirement: 24 pcs.



Main Lead Video

F601408/EPDM

Annual requirement: 1 piece



Auxiliary drive roller

F601729/2/EPDM

Annual requirement: 6 pcs.



Guide roller

H F601776/PU/ME

Annual requirement: 2 pcs.



Straightening roller

F601777/LURA/ME

Annual requirement: 1 piece



Centering roller

F601779/SBR/ME

Annual requirement: 1 piece



Chanova roller

P39855/2

Annual requirement: 2 pcs.



Conveyor tension drum

F601778/PU/ME

Annual requirement: 1 piece



Hydraulic motor

48727327

Annual requirement: 12 pcs.



Hose (sleeve) L-1700 -2800

DIN EN 853

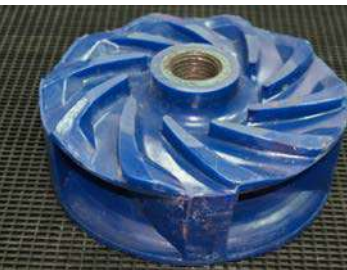
Annual requirement: 120 pcs.



Front-rear lining

Catalog number RTMR320220028 A

Annual requirement: 4 pcs.



Working wheel

Catalog number RTMR320210026 A

Annual requirement: 2 pcs.



Complete body

PD791010

Annual requirement: 1 piece



Seal kit

589836PS

Annual requirement: 1 piece



Gland packing

PD740011

Annual requirement: 20 pcs.



PDCF2551

PDCF2551

Annual requirement: 1 piece



stuffing box

500655-1

Annual requirement: 1 piece



Sealing ring of stuffing box

SA981289

Annual requirement: 2 pcs.



Oil seal spacer gasket

PD CA566

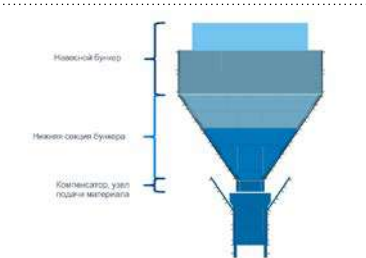
Annual requirement: 2 pcs.



Hopper wear protection

2081658747-FR A3 - 2080091420-FR A3- 2081643699-FR A3

Annual requirement: 6 pcs.



Compensator wear protection

2081644163-FR A3

Annual requirement: 2 pcs.



Hopper wear protection

2081676994-FR A3 - 2081677085-FR A3

Annual requirement: 312 pcs.



Inspection door wear protection

2080101396-FR A3 - 2080000916-FR A3

Annual requirement: 12 pcs.



Wear protection of guide plates, wear-resistant plates (roller press HPGR M9-24/19M)

2080102187-FR A3 - 2081676972-FR A3

Annual requirement: 340 pcs.

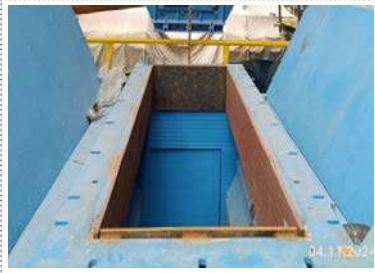


Frame wear protection

Wear protection for the HPGR M9-24/19M roller press frame.

2081661411-FR A3

Annual requirement: 4 pcs.



Frame wear protection

Wear protection for the HPGR M9-24/19M roller press frame.

2081676960-FR A3 - 2081676960-FR A3

Annual requirement: 12 pcs.



Sidewall wear protection

Wear protection for the sidewall of the HPGR M9-24/19M roller press

2081661415-FR A3 - 2081676958-FR A3

Annual requirement: 60 pcs.



Wear-resistant block

Wear-resistant block of the HPGR M9-24/19M roller press

2080144752-FR A3

Annual requirement: 64 computers



Hairpin

Wear protection for the HPGR M9-24/19M roller press.

Diameter: 22 mm. Length: from 35 mm to 60 mm.

Material: P9, P11

2080130632-FR A3 - 2080121734-FR A3

Annual requirement: 4000 pcs.



Edge segment - Segment complete with bolts

2081651316-FR A3 - 2081633598-FR A3

Annual requirement: 216 pcs.



Loctite 7063 Cleaner (150 ml)

Certificate: NSF Category P1 No. 123010, DVGW (EN 751-1): NG 5146AR0619, WRAS (BS 6920): 0511518

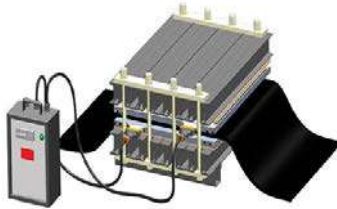
Annual requirement: 19 pcs.



Loctite 638 Fixative (50 ml)

Certificate: NSF Category P1 No. 123010, DVGW (EN 751-1): NG 5146AR0619, WRAS (BS 6920): 0511518

Annual requirement: 56 pcs.



Vulcanizing press

GOST 11997-89

Annual requirement: 1 piece



Two-component sealing compound (10 kg)

Standards: ISO 604 ASTM 638 ISO 179

Annual requirement: 300 k-t



Electric torque wrench complete with 6-Gr impact heads

GOST R 50635-94

Annual requirement: 2 pcs.

Railway Transport Equipment and Components



High-speed switch BVP-5A (UPZhT)

6TE.227.00 0

Annual requirement: 2 pcs.



Traction engine YZ-95 A (UPZhT).

HHDJ96

Annual requirement: 48 pcs.



Compressor KT-6 (UPZhT)

34.00.00.00 -009

Annual requirement: 16 pcs.



Contactor PK-360 (UPZhT)

6TN.242.36 0-6

Annual requirement: 256 pcs.



**Group cam switch PKG-6D
(with contactors) (UPZhT)**

6TP.246.006

Annual requirement: 4 pcs.



Traction unit spring (TULS)

5TP.285.001

Annual requirement: 24 pcs.



Contactor 1KM-016-060 (UPZhT)

6TP.241.249-06

Annual requirement: 12 pcs.



Brake cylinder (UPZhT)

condition No. 5106

Annual requirement: 24 pcs.



Electric motor ETV-20 (UPZhT)

5TN.674.125

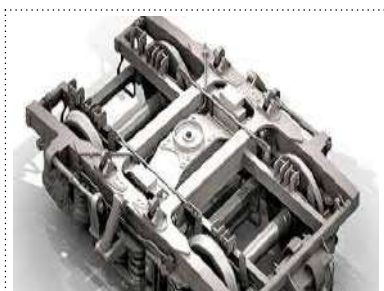
Annual requirement: 8 pcs.



Gearbox 348-2

6TN.242.36 0-6

Annual requirement: 48 pcs.



Assembled bogie without traction motors

5TP.084.289

Annual requirement: 12 pcs.



Electric motor DT-51 (DT51A) (UPZhT)

6TP.155.016

Annual requirement: 10 pcs.



Electric heating furnace PET-1UZ TU 16-531.609-77

Annual requirement: 48 pcs.



Pressure regulator AK 11B 2TD-387000

Annual requirement: 36 pcs.



Cardan shaft

TEM2.85.50.042

Annual requirement: 10 pcs.



Cardan shaft (vertical)

TEM2.85.50.035

Annual requirement: 10 pcs.



Cardan shaft assembly

TEM1.85.50.051

Annual requirement: 10 pcs.



Reverse

PPK-8023

Annual requirement: 4 pcs.



Fuel pump (FP)

2D100.32.010

Annual requirement: 20 pcs.



Control unit of the USTA-5 (UPZhT) system.

"27.T.275.01.00.000.1 75V TU 32 VNIKTI 35-2006"

Annual requirement: 4 pcs.



Pressure sensor-relay (UPZhT)

DEM-105S-01-2

Annual requirement: 15 pcs.



Wheel pair (UPZhT)

TEM3.35.15.000

Annual requirement: 4 pcs.



**Hardware and software complex "Bort"
(UPZhT)**

APK Bort

Annual requirement: 4 pcs.



Cylinder liner assembly (UPZhT)

6D49.36spch-1-02

Annual requirement: 16 pcs.



Piston (UPZhT)

1-5D49-22.1spch

Annual requirement: 16 pcs.



Speed controller 3-M (UPZhT).

7PC2.00.000спч1-0

Annual requirement: 2 pcs.



**Traction generator cooling fan
(UPZhT)**

1A-5D49.151spch-05

Annual requirement: 2 pcs.



**Cylinder head with valves assembled for the TEM2 diesel
locomotive (UPZhT)**

1PDG4A.06.02 0

Annual requirement: 32 pcs.



Traction generator GP-300BU2 (UPZhT)

"TU16-89 ILKV.529312.008 TU16.515.151-74"

Annual requirement: 2 pcs.



**Two-machine permanent type unit MBT25/9Y2-MBГ25/11Y2
(УПЖТ)**

TU16-516-078-75

Annual requirement: 4 pcs.



Diesel generator 1PDG4A (UPZhT)

1PDG4A

Annual requirement: 2 pcs.



Fuel pump assembly with speed controller (RCHO) (UPZhT)

1D50.27Sb-2

Annual requirement: 4 pcs.



Turbocharger (UPZHT)

TK-30N17

Annual requirement: 4 pcs.



Traction (axle box leash) (UPZhT)

5TP.234.020

Annual requirement: 48 pcs.



Absorbing apparatus (UPZhT)

518.02.000-4sb

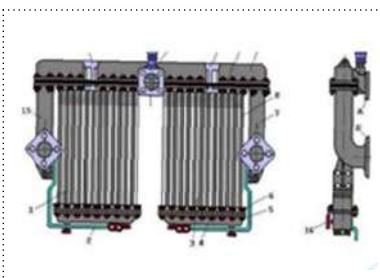
Annual requirement: 20 pcs.



Mainline railway rail R 65-T1-25-3/2 (UPZhT)

GOST R51685-20

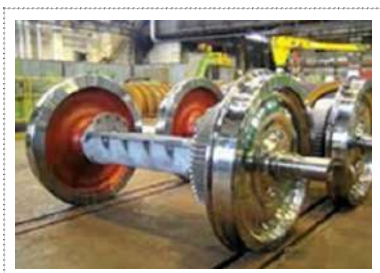
Annual requirement: 51.7 tons



Refrigerator (UPZhT)

34.10.00.07-000sat

Annual requirement: 10 pcs.



Wheel pair (UPZhT)

5TP.224.029

Annual requirement: 20 pcs.



Shock absorber assembly tel. 070801-1-00 (UPZhT)

522.30.010-0

Annual requirement: 144 pieces



Wheel pair-957-G-206-B (UPZhT)

GOST 4835-2013 (RU-1Sh)

Annual requirement: 216 pcs.



Wagon axle RU-1Sh (UPZhT)

GOST 22780-93

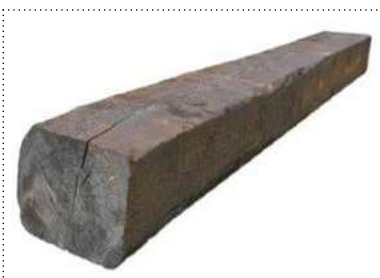
Annual requirement: 144 pieces



End axle box assembly (UPZhT)

61.10.048

Annual requirement: 144 pieces



Wooden sleeper 230x160x2750 impregnated type 1-2 (UPZhT)

GOST 78-2004

Annual requirement: 800 pcs.



Bandage (UPZhT)

1060x143x98 GOST 3225-80

Annual requirement: 120 pcs.



Wheel pair-957-G-206-B (UPZhT)

GOST 4835-2013 (RU-1Sh)

Annual requirement: 216 pcs.



Shock absorber assembly tel. 070801-1-00 (UPZhT)

522.30.010-0

Annual requirement: 144 pieces



Tipping cylinder 060200-2-00 (UPZhT)

667.45.010, 060200-2-00

Annual requirement: 24 pcs.



**Single -acting tipping cylinder (unloading cylinder) 2BC-105
677.45.030, 060100-2-00 (UPZhT)**

677.45.030, 060100-2-00

Annual requirement: 12 pcs.



Turnout set R-50 (left) Brand 1/9 spike (UPZhT)

2498.00.000

Annual requirement: 1 piece



Rail R-50 (UPZhT)

GOST 7164-75

Annual requirement: 1300 m

Miscellaneous Industrial Products



Rear Warning Horn Buzzer Type A6152-41301 12v

In accordance with the manufacturer's GOST

Annual requirement: 4 pcs.



Power steering 17-KM914-10601

In accordance with the manufacturer's GOST

Annual requirement: 2 pcs.



Steering rod A2184-32081

In accordance with the manufacturer's GOST

Annual requirement: 8 pcs.



Brake cylinder 25595-40302A

In accordance with the manufacturer's GOST

Annual requirement: 4 pcs.



wheel brake assembly 24453-70411

In accordance with the manufacturer's GOST

Annual requirement: 8 pcs.



High-pressure fuel pump 4QTF 451 490B-21000

In accordance with the manufacturer's GOST

Annual requirement: 1 piece



Starter 490V-51000

In accordance with the manufacturer's GOST

Annual requirement: 3 pcs.



Generator 490V-52000

In accordance with the manufacturer's GOST

Annual requirement: 2 pcs.



Belt 490B-410001

In accordance with the manufacturer's GOST

Annual requirement: 12 pcs.



Belt XPZ 85018F3 5055 (Handiza)

In accordance with the manufacturer's GOST

Annual requirement: 2 pcs.



Starter TU-4600017800-250-2011 24v (Handiza)

In accordance with the manufacturer's GOST

Annual requirement: 1 piece



Limit switch VPK 2111-BU2-600v-400v 10A IP65 (Khandiza)

In accordance with the manufacturer's GOST

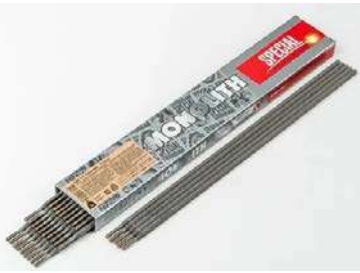
Annual requirement: 2 pcs.



Electrocorundum normal granular grade 14A, fractional composition: grain size 0.4-0.8 mm - 5 tons grain size 0.8-1.6 mm - 4 tons grain size 1.6-3 mm - 5 tons grain size 3-10 mm - 8 tons (USRR)

GOST 3647-80, GOST 28818-90

Annual requirement: 22 tons



**Electrodes for high-alloy steels
CL-9, CL-11 Electrode diameter - 3 and 4 mm (USRR)**

GOST 10052-75

Annual requirement: 2 tons



Ballast rheostat RB-306: (USRR)

GOST 18636-7

Annual requirement: 40 pcs.



Gas Cutter R3: (USRR)

GOST 5191-79

Annual requirement: 42 pcs.



Propane reducer BPO-5-4: (USRR)

GOST 13861-89

Annual requirement: 12 pcs.



Oxygen reducer BKO-25: (USRR)

GOST 13861-89

Annual requirement: 22 pcs.



Beaker 50-100-500-1000 (TsAL)

GOST 1770-74

Annual requirement: 500 pcs.



**Pipette graduated for full drainage straight V=1- V=5-V=10-
V=25 (TsAL)**

GOST 29227-91

Annual requirement: 200 pcs .



**Mora's Pipette 2-2-10 - 2-2-20 - 2-1-1-1 - 2-1-1-2 -
2-1-1-5 - 2-1-1-10 (TsAL)**

GOST 29227-91

Annual requirement: 150 pcs .



Crucible tongs, length - 240 mm (TsAL)

TU 6-09-1551-77

Annual requirement: 200 pcs.



Universal laboratory stand (TsAL)

GOST 10197-70

Annual requirement: 20 pcs.



**IGV Assembly Kit
(included) for compressor SM-6000**

In accordance with the manufacturer's GOST

Annual requirement: 2 computers



**Measuring cylinders with spout and glass base V=10 . V=50.
V=500. (TsAL)**

GOST 1770-74

Annual requirement: 60 pcs .



Volumetric flask 2000 -125-150 ml HS (TsAL)

GOST 25336-82

Annual requirement: 60 pcs .



**Volumetric flask, 2nd class, accuracy with mark and stopper 2-
100 – V=100 (PM) HS (TsAL)**

GOST 1770-74

Annual requirement: 780 pcs .



FLASK KN-3-100-34 (TsAL)

GOST 25336-82

Annual requirement: 500 pcs .



**Flask KN-1-500-29/32 – 1000-29/32 with ground joint and lid
(TsAL)**

GOST 21400-75

Annual requirement: 100 pcs .



Flask P-2-100-34 - P-2-250-34 TS (TsAL)

GOST 25366-82

Annual requirement: 900 pcs.



Conical flask KN-2-250-50 – KN-2-2000-50 (TsAL)

GOST 25336-82

Annual requirement: 1100 pcs.



Porcelain mugs with a spout V=1000 V=2000 (TsAL)

GOST 9147-80

Annual requirement: 40 pcs.



**Burette with olive and tip 1-3-2-25-0.1
1-3-2-50-0.1 (TsAL)**

GOST 29228-91

Annual requirement: 150 pcs .



Microburette with olive V=25 V=50

GOST 2951-91

Annual requirement: 100 pcs .



**Porcelain mortar and pestle, d-160mm
(TsAL)**

In accordance with the manufacturer's GOST

Annual requirement: 20 pcs .



GLASS B-1-100 1-600 1-12000 1- THS (TsAL)

GOST 25336-82

Annual requirement: 500 pcs .



Glass V-1 V-1000 (TsAL)

GOST 25336-82

Annual requirement: 100 pcs .



Glass N-1 250 HH-400 HH-600 THS (TsAL)

GOST 25336-82

Annual requirement: 1600 pcs .



Laboratory funnel B 75-100HS D-100 mm (TsAL)

GOST 25336-82

Annual requirement: 3600 pcs .



**Cone-shaped funnel
D-250 ±10 mm, d-30±3, H-345±10 (TsAL)**

GOST 8613

Annual requirement: 30 pcs .



Quartz cylindrical crucible with ground lid (TsAL)

GOST 55660-2013

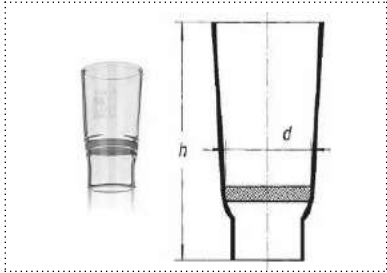
Annual requirement: 200 pcs .



Crucible glass carbon N5 U-40: D-40: H-49 mm (TsAL)

TU 1916-027-27208846-01

Annual requirement: 200 pcs .



Filter crucible TF-40 POR-40, TS HLP (TsAL)

GOST 25336-82

Annual requirement: 20 pcs .



Filter crucible TF-40 POR 160 TS HLP (TsAL)

GOST 25336-82

Annual requirement: 100 pcs .



Low quartz crucibles V=100 (TsAL)

GOST 19908-90

Annual requirement: 100 pcs .



Low porcelain crucibles No. 3-2-No. 4 unglazed (TsAL)

GOST 9147-80

Annual requirement: 1400 pcs .



**Medical rubber tube type 6. 5.0*1.3 –
6 .6.0*1.5 – 6 8.0*1.5 (Dsal)**

In accordance with the manufacturer's GOST

Annual requirement: 16 m



Wash bottle, 1000 - 500 ml, semi-rigid polyethylene (TsAL)

In accordance with the manufacturer's GOST

Annual requirement: 300 pcs.



Surgical tweezers (TsAL)

GOST 21241-89

Annual requirement: 20 pcs.



Evaporating dish No. 6 - porcelain No. 5 (TsAL)

GOST 9147-80

Annual requirement: 200 pcs.



Mora clamp (TsAL)

In accordance with the manufacturer's GOST

Annual requirement: 50 pcs.



Porcelain burning boats (TsAL)

GOST 9147-80

Annual requirement: 1400 pcs.



Rubber bulb No. 1-3 (TsAL)

In accordance with the manufacturer's GOST

Annual requirement: 100 pcs.



Glazed porcelain crucibles (GPC)

GOST 9147-80

Annual requirement: 50 pcs.



AOR coupling for the SM-6000 compressor

In accordance with the manufacturer's GOST

Annual requirement: 2 computers



IGV and BOV positioners (SW-1000R) for SM-6000 compressor

In accordance with the manufacturer's GOST

Annual requirement: 2 computers



Actuator IGV for the SM-6000 compressor

In accordance with the manufacturer's GOST

Annual requirement: 2 computers



Relay R4-2014-23-1060-WLT with GZW4 socket, 60BV type indicator module and G4 1051 clips

In accordance with the manufacturer's GOST

Annual requirement: 20 pcs.



E3EF-QX3D1-M1TGJ 0.3m M12mm DC 2-wire (polarity) metal motion sensor

In accordance with the manufacturer's GOST

Annual requirement: 60 pcs.



E2FM-X2B1-M1 2m DC 3-wire metal motion sensor (NPN polarity)

In accordance with the manufacturer's GOST

Annual requirement: 60 pcs.



Tube bundle of intermediate heat exchangers for the SM-6000 compressor

In accordance with the manufacturer's GOST

Annual requirement: 8 comp.



Bearing kits (compressor and electric motor) for the SM-6000 compressor

In accordance with the manufacturer's GOST

Annual requirement: 2 computers



MOR coupling for the SM-6000 compressor

In accordance with the manufacturer's GOST

Annual requirement: 2 computers



Main engine clutch for SM-6000 compressor

In accordance with the manufacturer's GOST

Annual requirement: 2 computers



Regulators for the SM-6000 compressor

In accordance with the manufacturer's GOST

Annual requirement: 2 computers



MOR repair kit (included) for compressor SM-6000

In accordance with the manufacturer's GOST

Annual requirement: 2 computers



Vinyl plastic sheet δ -8 mm (CZ)

GOST 9639-71

Annual requirement: 450 kg



Relay R4-2014-23-1024-WT with GZW4 socket, 42V indicator module and clip G4 1051 (SGE)

In accordance with the manufacturer's GOST

Annual requirement: 4 pcs.



Relay R4-2014-23-1220-WT with GZW4 socket, type 42C indicator module and G4 1051 clip

In accordance with the manufacturer's GOST

Annual requirement: 16 pcs.



Relay R4-2014-23-1220-WT with GZW4 socket, 42BV type indicator module and G4 1051 clip

In accordance with the manufacturer's GOST

Annual requirement: 1 piece



Relay R4-2014-23-5220-WT with GZW4 socket, type 92 indicator module and G4 1051 clip

Certificate of Conformity to the EAEU TR

Annual requirement: 4 pcs.



Relay EL-11

In accordance with the manufacturer's GOST

Annual requirement: 4 pcs.



Closed-type relay RP-50

In accordance with the manufacturer's GOST

Annual requirement: 8 pcs.



Temperature control relay TOS B4RP1C

In accordance with the manufacturer's GOST

Annual requirement: 8 pcs.



Pulse generation board PFI-DP1 (SGE)

In accordance with the manufacturer's GOST

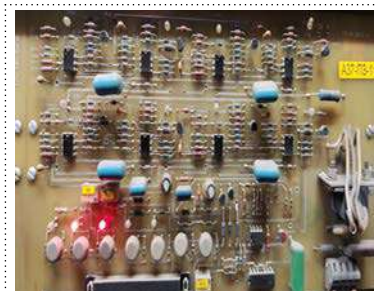
Annual requirement: 8 pcs.



Pulse transformer board PIT (SGE)

In accordance with the manufacturer's GOST

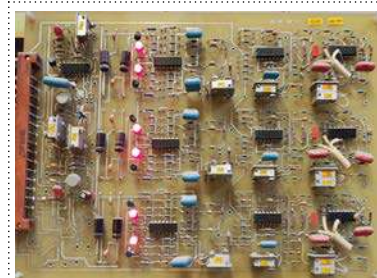
Annual requirement: 2 pcs.



Protection board PZ-1, PZ-2

In accordance with the manufacturer's GOST

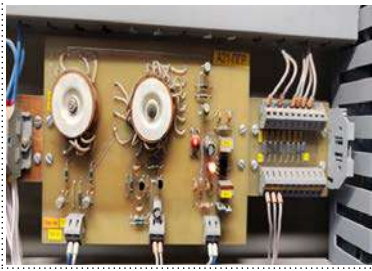
Annual requirement: 2 pcs.



Control board of the control unit

In accordance with the manufacturer's GOST

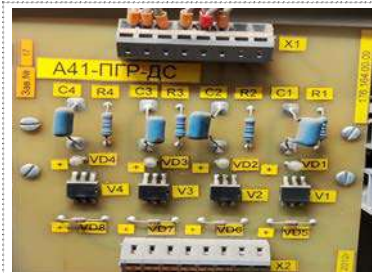
Annual requirement: 2 pcs.



Galvanic isolation board PGR

In accordance with the manufacturer's GOST

Annual requirement: 2 pcs.



PGR-DS discrete signal galvanic isolation board

In accordance with the manufacturer's GOST

Annual requirement: 2 pcs.



PFA-2 analog filter board

In accordance with the manufacturer's GOST

Annual requirement: 2 pcs.



Pressure gauge MTP-160 0-400kgf/ cm.kv (Kalmakyr)

In accordance with the manufacturer's GOST

Annual requirement: 2 pcs.



Control device SK-712/1-1-63 (110A) / EL (PVS)

In accordance with the manufacturer's GOST

Annual requirement: 5 pcs.



ELDON control cabinet (PVS)

In accordance with the manufacturer's GOST

Annual requirement: 5 pcs.



Propane cylinder V-50 L (Kalmakyr)

GOST 949-73

Annual requirement: 20 pcs.



Oxygen cylinder V-40L under pressure of 150 kgf/cm sq. (Kalmakyr)

GOST 949-73

Annual requirement: 50 pcs.



Cuff 1.2-160x190-2 1-360x400-3 Reinforced (Kalmakyr)

GOST 8752-79

Annual requirement: 570 pcs.



Cuff 180x160 1-180x160-6 (Kalmakyr)

GOST 14896-84

Annual requirement: 350 pcs.



RSE cuff D-280mm, d-250mm, h-18mm, P-250kg/cm2 (for oils) (Kalmakyr)

Certificate of Conformity to the EAEU TR

Annual requirement: 200 pcs.



Valve cover (Kalmakyr)

EK 7A.00.015A

Annual requirement: 4 pcs.



Oil scraper piston ring (Kalmakyr)

M112 EK7A.03.013-01A

Annual requirement: 100 pcs.



Valve plate (Kalmakyr)

EK 7A.04A.100

Annual requirement: 10 pcs.



Piston (Kalmakyr)

EK 4.03.011-02

Annual requirement: 20 pcs.



Band valve with elastic limiter 1st and 2nd stage (Kalmakyr)

32.20.00.00-005sb, 32.21.00.00.002sb

Annual requirement: 4 pcs.



Compressor ring CVP (Kalmakyr)

32.04.00.03-28

Annual requirement: 100 pcs.



Oil scraper ring VD (Kalmakyr)

32.04.01.00.004 Sat

Annual requirement: 100 pcs.



Heat exchanger for EK compressors (Kalmakyr)

32.19.00.00.005sat

Annual requirement: 10 pcs.



High pressure cylinder for EK compressor (Kalmakyr)

32.00.00.02-023

Annual requirement: 6 pcs.



LP cylinder for EK compressor (Kalmakyr)

32.00.00.01-039

Annual requirement: 6 pcs.



Connecting rod GAZ-51 (Kalmakyr)

1004045

Annual requirement: 6 pcs.



Valve assembly EK (Kalmakyr)

EK 7A.04 Sat

Annual requirement: 20 pcs.



Valve box assembly EK (Kalmakyr)

EK 4.04 Sat

Annual requirement: 4 pcs.



Connecting rod assembly EC (Kalmakyr)

EK4.03.001

Annual requirement: 24 pcs.



Cylinder block EK (Kalmakyr)

EK4.00.010-2

Annual requirement: 10 pcs.



Crankshaft EK (Kalmakyr)

EK4.02.011

Annual requirement: 10 pcs.



Piston EK (Kalmakyr)

EK4.03.011

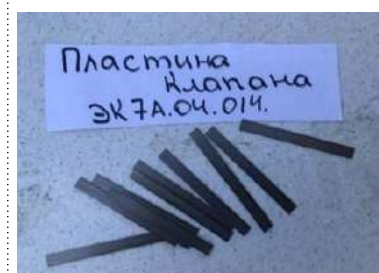
Annual requirement: 20 pcs.



Bushing EK4.01.019-3 (Kalmakyr)

EK4.01.019-3

Annual requirement: 24 pcs.



EK valve plate (Kalmakir)

EK 7A.04.014

Annual requirement: 1,000 pcs.



Time relay 3RN-1 24VDC 0.1-1S to LPKM

In accordance with the manufacturer's GOST

Annual requirement: 12 pcs .



Lid from "Quota-3" in complete set

In accordance with the manufacturer's GOST

Annual requirement: 3 pcs.



СВН 2-02 24В Счётчик моточасов
(времени наработки)

Operating time counter SVM-2-02 (Kalmakyr)

In accordance with the manufacturer's GOST

Annual requirement: 2 pcs.



Micrometer bore gauge 75-600 (Kalmakyr)

GOST 10-88

Annual requirement: 1 piece



Inside meter NI 18-50 (Kalmakyr)

GOST 868-82

Annual requirement: 1 piece



Inside meter NI 50-100, 100-160 (Kalmakyr)

GOST 868-82

Annual requirement: 2 pcs.



Inside meter NI 160-250 (Kalmakyr)

GOST 868-82

Annual requirement: 1 piece



Pressure gauge MP 4U 0-250 kgf/cm2 (Kalmakyr)

TU 25-02.180335-84

Annual requirement: 25 pcs.



Pressure gauge MP 4U 0-16 kgf/cm2 (Kalmakyr)

TU 25-02.180335-84

Annual requirement: 25 pcs.



Pressure gauge MP3-UU2-100 0-250 kgf/cm2 OSH (Kalmakyr)

TU 25-02.180335-84

Annual requirement: 25 pcs.



Pressure gauge MP3-UU2-100 0-100 kgf/cm2 OSH (Kalmakyr)

GOST 15150-69

Annual requirement: 15 pcs.



Manometer MT (propane) 0-4 kgf/cm2 (Kalmakyr)

Certificate of Conformity to the EAEU TR

Annual requirement: 20 pcs.



**Pressure gauge MP-63 -25 kgf/cm², D=60 mm (Oxygen)
(Kalmakyr)**

GOST 2405-88

Annual requirement: 20 pcs.



**Pressure gauge MP-63 -250 kgf/cm², D=60 mm (Oxygen)
(Kalmakyr)**

GOST 2405-88

Annual requirement: 20 pcs.














Pressure gauge MP4-U 0-160 kgf/cm² (Kalmakyr)

In accordance with the manufacturer's GOST

Annual requirement: 2 pcs.

Automotive Transport Equipment and Components

	<p style="text-align: center;">Car tire 18.00x R25</p> <p style="text-align: center;">CB-771 TL Westlake</p> <p style="text-align: center;">Annual requirement: 190 pcs.</p>
	<p style="text-align: center;">Car tire 29.5- R 29</p> <p style="text-align: center;">Article: LL29529E3L3PR28TL</p> <p style="text-align: center;">Annual requirement: 32 pcs.</p>
	<p style="text-align: center;">Car tire 23/5- R 25</p> <p style="text-align: center;">Article: LL29529E3L3PR28TL</p> <p style="text-align: center;">Annual requirement: 90 pcs .</p>
	<p style="text-align: center;">Car tire 46/90- R57</p> <p style="text-align: center;">In accordance with the manufacturer's GOST</p> <p style="text-align: center;">Annual requirement: 528 pcs.</p>
	<p style="text-align: center;">Car tire 33.00 R51</p> <p style="text-align: center;">Part number: MGRN33R51RDZT</p> <p style="text-align: center;">Annual requirement: 978 pcs.</p>
	<p style="text-align: center;">Hotmelt adhesive 500ml/500g TM Rossvik</p> <p style="text-align: center;">Article: TG.05.XK1</p> <p style="text-align: center;">Annual requirement: 100 pcs.</p>

	<p align="center">Jet thrust</p>
	<p align="center">251-2919012</p>
	<p align="center">Annual requirement: 40 pcs.</p>
	<p align="center">Jet thrust pin</p>
	<p align="center">5511-2919026</p>
	<p align="center">Annual requirement: 360 pcs.</p>
	<p align="center">Front stabilizer</p>
	<p align="center">8971383480</p>
	<p align="center">Annual requirement: 60 pcs.</p>
	<p align="center">Rear stabilizer</p>
	<p align="center">981507210</p>
	<p align="center">Generator winding</p>
	<p align="center">6562-3701100</p>
	<p align="center">Annual requirement: 16 pcs.</p>



Body

T-740.00.00

Annual requirement: 8 pcs.



Boom cylinder pin

313-01-0002

Annual requirement: 30 pcs.



Left wheel stud

8970815854

Annual requirement: 240 pcs.



Right wheel stud

8970815844

Annual requirement: 240 pcs.



Spring bushing Ø16

8941185881

Annual requirement: 840 pcs.









Spring bushing Ø18

8970748260

Annual requirement: 840 pcs.

	<p style="text-align: center;">Spring</p> <p style="text-align: center;">5TP.285.001</p> <p style="text-align: center;">Annual requirement: 24 pcs.</p>
	<p style="text-align: center;">Brake interlock device</p> <p style="text-align: center;">6TP741006</p> <p style="text-align: center;">Annual requirement: 40 pcs.</p>
	<p style="text-align: center;">Left rear spring cushion</p> <p style="text-align: center;">81.96210-0555</p> <p style="text-align: center;">Annual requirement: 80 pcs.</p>
	<p style="text-align: center;">Right rear spring cushion</p> <p style="text-align: center;">81.96210-0554</p> <p style="text-align: center;">Annual requirement: 80 pcs.</p>
	<p style="text-align: center;">Cushion mounting bolt</p> <p style="text-align: center;">06.01494-4935</p> <p style="text-align: center;">Annual requirement: 280 pcs.</p>
	<p style="text-align: center;">Wheel mounting bolt with nut short M22*1.5*65</p> <p style="text-align: center;">81.45501-0129</p> <p style="text-align: center;">Annual requirement: 160 pcs.</p>

	Piston oil scraper ring TsND 34.05.00.05-009
	34.05.00.05-009
	Annual requirement: 400 pcs.
	Connecting rod bearing (1st repair) D50.24.004-1A
	D50.24.004-1A
	Annual requirement: 14 pcs.
	Brake cylinder spring
	508.11
	Annual requirement: 288 pcs.
	Cylindrical spring
	8TP.284.066
	Annual requirement: 120 pcs.
	Plunger pair D50.27.104Sb
	D50.27.104Sb
	Annual requirement: 80 pcs.
	Nozzle sprayer D50.17.101SB-1
	D50.17.101SB-1
	Annual requirement: 120 pcs.



Wheel mounting bolt with nut long M22*1.5*77

81.45501-0131

Annual requirement: 800 pcs.



Brake drum file

81.50101-5141

Annual requirement: 34 pcs.



Wheel stud

4310-3103070-10

Annual requirement: 620 pcs .



V- shaped

81.43270-61174

Annual requirement: 22 pcs.



Lower pull rod

81.43220-6382

Annual requirement: 30 pcs.



Jet thrust

5511-2919013-01

Annual requirement: 40 pcs.



Plaster R65-55-75 (cold

Article: R.65.B.1

Annual requirement: 90 pcs.



Sleeve 4089143 / 4085917

Article: 4089143

Annual requirement: 112 pcs.



Cylinder head assembly 3647149

Compatible part numbers: 3641570, 5371715, 5372484, 3641571, 5371714, 5372485, 5635343, 3650878, 3647149

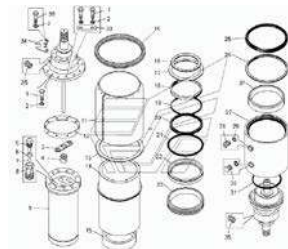
Annual requirement: 112 pcs .



KTA-50 lower repair kit 3804300

Article: 3804300, 3801717, 3029188, 3015446

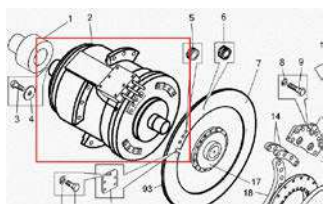
Annual requirement: 30 pcs.



Spare parts kit for suspension cylinders 75306-2907018-01

Article (drawing number): 75306-2907018-01

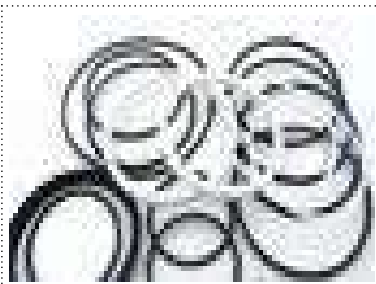
Annual requirement: 60 pcs.



Parking brake cylinder 75132-3507230-01

Article: 75132-3507230-01

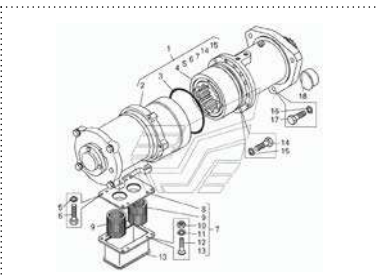
Annual requirement: 20 pcs.



Spare parts kit for suspension cylinder 7519-2917018

Article (drawing number): 7519-2917018

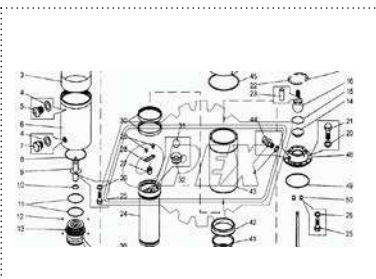
Annual requirement: 180 pcs.



Pneumatic starter 75131-1026002

Article: 75131-1026010

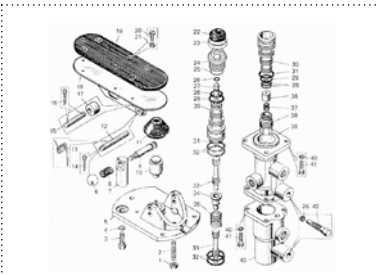
Annual requirement: 12 pcs.



Rear Suspension Compression Valve Seat 7545-2907184

Article (drawing number): 7545-2907184

Annual requirement: 80 pcs .



**Repair kit for brake control valve
7555A-3514015-10**

Article: 7555 A-3514015-10

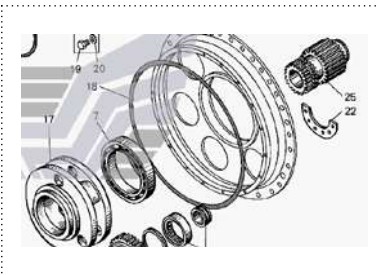
Annual requirement: 24 pcs.



Cuff 1.2-145x175-4

Article: 1.2-145x175-4

Annual requirement: 60 pcs.



Sun gear 2nd row 7519-2405372

Article: 7519-2405372

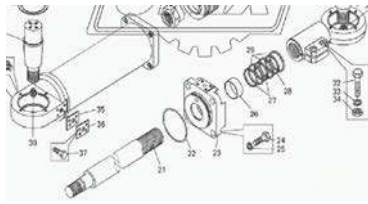
Annual requirement: 20 pcs.



Pump P203-8XNBO-1C7-24-2A1.10 644-46364-8 Lincoln

Article: P203-8XNBO-1C7-24-2A1.10-V10GEF.FN745

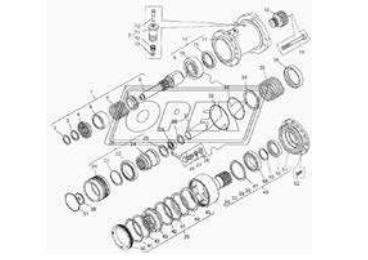
Annual requirement: 20 pcs.



Rod 7513-3429046

Article (drawing no.):
7513-3429046

Annual requirement: 30 pcs.



Starter gearbox 7549-1026220

Article (drawing number): 7549-1026220

Annual requirement: 15 pcs .



Metal sleeve MS 35150.PO50311

Article: MS35150.PO50311

Annual requirement: 40 pcs.



Valve type BS 37-3114010

Article: Valve BS (37-3114010)

Annual requirement: 200 pcs.



Steering gear OSPBX500LS

Article number OSPBX-500LS-150-1086

Annual requirement: 30 pcs.



Cylinder 75132 3577040-10

Article: 75132-3577040-10

Annual requirement: 60 pcs.



**Single pump for the REXROTH TYRA hydraulic system
75131-8604011-20**

Article: REXROTH TYRA 75131-8604011-20

Annual requirement: 22 pcs.



Brake cylinder 540-3519010-04

Article: 540-3519010-04

Annual requirement: 28 pcs.



Rear suspension cylinder 540-2917020-11

Article: 540-2917020-11

Annual requirement: 16 pcs.



Parking brake cylinder 75132-3507230-01

Article: 75132-3507230-01SB

Annual requirement: 24 pcs.



Cylinder head assembly 3646321

Article: 3646321

Annual requirement: 64 pcs.

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