



# CATALOGUE

of export-oriented products of the Republic of Uzbekistan

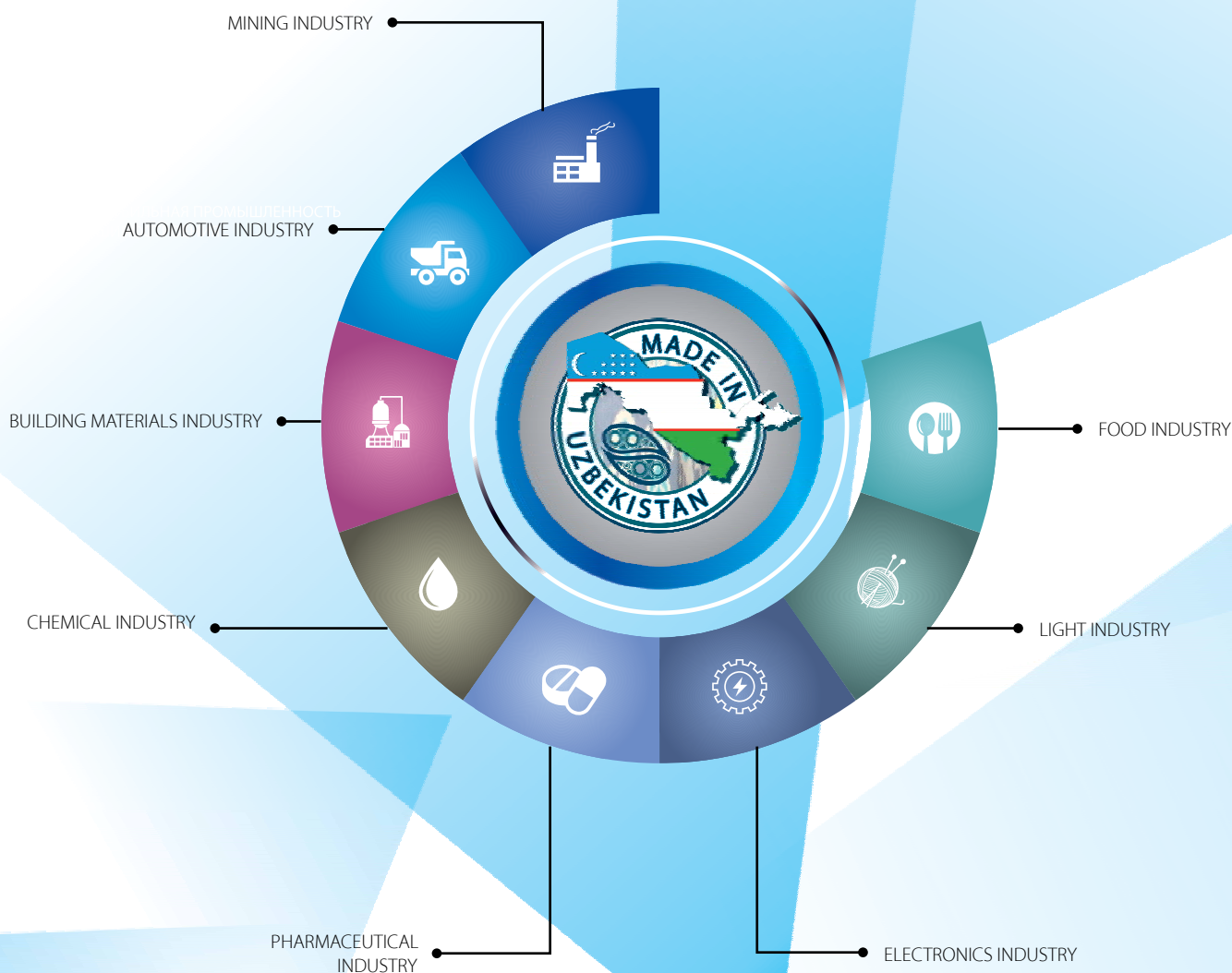




MINISTRY OF INVESTMENTS AND  
FOREIGN TRADE OF THE REPUBLIC  
OF UZBEKISTAN



Empowered lives.  
Resilient nations.



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of export-oriented products of the Republic of Uzbekistan

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# REPUBLIC OF UZBEKISTAN

**Geographic location:** Uzbekistan is situated between Amudarya and Syrdarya rivers in the central part of Central Asia. A landlocked country.

**Coordinates:** 41-00 northern latitude, 64-00 eastern longitude.

**Area:** Total — 448 900 sq. km; including land — 425 400 sq. km; water — 22 000 sq. km. The territory of the country extends 1 425 km west-to-east, and 930 km north-to-south.

**Borders:** Total length — 6 221 km. The length of the border with Kazakhstan — 2 203 km, Turkmenistan — 1 621 km., Tajikistan — 1 161 km, Kyrgyzstan — 1 099 km., Afghanistan — 137 km, respectively.

**Climate.** The climate of Uzbekistan is sharply continental. Average temperature in January falls as low as  $-6^{\circ}\text{C}$ , while average temperature in July reaches  $+32^{\circ}\text{C}$ . Average annual precipitation ranges between 120–200 mm in the valleys, and 1 000 mm in the mountainous regions. The amount of precipitation is insignificant, thus, agriculture largely depends on irrigation. The largest rivers are Amudarya and Syrdarya. Total length of Amudarya is 1 437 km, and of Syrdarya — 2 137 km, respectively. There are several major artificial lakes such as Chardara water reservoir in Uzbekistan.

**Natural resources.** Based on natural and geographic context, Uzbekistan is one of the most favorable regions in Central Asia. The country has major production and mineral potential, unique agricultural resources, significant amount of semi-finished materials generated in the processing, and advanced infrastructure.

Contemporary level of mineral exploration is linked with development of rich deposits of precious, non-ferrous and rare metals, all types of hydrocarbon fuel — oil, natural gas and gas condensate, brown and half-coking coal, shales, uranium and many types of inputs for building materials.

A wide range of minerals have been discovered including approximately 100 types of minerals, 60 of them are being currently used in the national economy.

Uzbekistan ranks among the first in the world in terms of proven reserves of the natural resources such as gold, uranium, copper, natural gas, tungsten, potassium salts, phosphorite and kaolin clay reserves. Inter alia, Uzbekistan ranks fourth in the world in gold reserves and seventh in gold mining; eighth in natural gas production; tenth-eleventh in copper reserves; seventh-eighth in uranium reserves and eleventh-twelfth in its mining.

**Investment climate.** Uzbekistan created favorable investment climate, broad system of legal guarantees and preferences for foreign investors, as well as comprehensive system of measures to promote operations of companies with foreign investments.

Advantages that modern Uzbekistan offers to foreign companies include political and macroeconomic stability, favorable nature and climate, convenient geographic location in the center of major regional markets, transportation-logistics system integrated into the network of international-scale land and air communications, diversified manufacturing base as well as intellectual and human capacity





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## Mining Industry

### JSC «Almalyk MMC»

The JSC «Almalyk MMC» (the Complex) is one of the largest mining and metallurgical enterprises in the Republic of Uzbekistan.

The Complex production capacities are based on the reserves of a set of copper-porphyry, lead-zinc and gold-silver deposits in the territory of Tashkent, Jiizzakh, Namangan and Surkhandarya regions in the Republic of Uzbekistan. The Complex includes six active mining enterprises, five concentration plants, two metallurgical plants with sulfuric acid production facilities, scientific and production union for the production of rare metals and hard alloys, cement plant, copper tubes plant, repair and mechanical workshop, lime works, road transport management with 6 carpool, industrial railway transport management, consumer goods production management and also over twenty auxiliary workshops and laboratories.

### Copper Concentrating Plant

The concentrator was commissioned in 1961. The major activity of a copper concentrator is treatment of sulfide copper-molybdenum ore from the Kalmakir and Sary-Cheku deposits with obtaining the copper concentrate and molybdenum middling product.

As a result of implementation of the investment project on reconstruction of crushing and drilling sections of copper concentrator was provided to increase the project capacity of the processing plant ore to 35 mln tons per year.

Currently, the plant includes two crushing workshop, workshop of grinding and flotation technology with twelve sections, plant section and drying of copper and molybdenum concentrate, and others.

After dewatering and drying operation, copper concentrate is sent for melting to copper smelter and molybdenum

middling to oxidizing roasting, sent at Scientific production group on manufacture of rare metals and hard alloys, which located in Chirchik city (Tashkent region).





## Copper Smelting Plant



Copper plant is a final link in copper chain of Almalyk mining-and-metallurgical integrated works, which construction is conditional upon availability of powerful ore base of "Kalmakir" deposit. Plant construction was completed in 1963 and on December 31 of the same year the first crude copper was obtained. Copper plant contains ten principal production shops. With a purpose to produce new types of production and its widening, in 1995 a shop for production of enameled wire was commissioned and in 2000 a shop for rare metals production was commissioned. In 2014 a new sulfuric shop was commissioned, the design was performed by Company "OutotecGmbH" (Germany).

In 2016 at the plant was realized an investment project of new smelt furnace construction, in result of which metallurgic

shop design capacity increase by 16,7 th.t of crude copper, as well as improvement of environment at expense of reduction of sulfur gases emission to the atmosphere was provided.

Presently, copper plant is a modern enterprise with advanced technology and completed cycle of rare metals contained in raw material obtaining. Also in 2016, the investment project has been implemented on the organization of production of copper wire and the site was put into operation for the production of copper wire with a design capacity of 5.0 thousand tons per year.

Main plant product is refined copper, affined precious metals, technical selenium, technical tellurium, sulphuric acid, copper sulfate, ammonium perrenate, middling product molybdene burnt, copper wire in enamel insulation, etc.



## Zinc Smelting Plant



The zinc plant was commissioned in September 1970. At the time the raw material base served ore deposits «Kurgashinkan and Oltintopkan», which was processed at the lead processing plant, now copper-concentrator - 2.

With the commissioning of the concentrator mine «Handiza», zinc plant started to process its own raw materials. The first batch of zinc concentrate at the plant came in November 2010, and in December of the same year had obtained first zinc.

Production of zinc concentrate mining «Handiza» only 25 per cent of the total production capacity of the zinc plant. In this regard, at the present time the plant processed its own zinc concentrates and as well as imported one.

The implementation in 2014 of the investment project on reconstruction of zinc plant is provided to increase the capacity for the production of zinc up to 80 thousand tons per year.



## The Angren Tube Plant

The Angren tube plant of JSC «Almalyk MMC» is based on production of copper tubes of different diameters, with a project capacity of 8.0 thousand tons, was launched in 2013 at the freedom economic zone Angren (Tashkent region).

«Angren tube plant» produced copper tubes with diameter from 4 to 29 mm, with wall thickness from 0.3 to 1.5 mm, in soft, semi-solid and solid states.

Copper tubes are widely used in everyday life, in manufacturing, in construction work, when holding water, thermal communication, with the installation of HVAC equipment and etc.

Sales, manufacture of copper tubes of different diameters, provided for export is (85 %) and domestic market (15 %).

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## Cement Plant



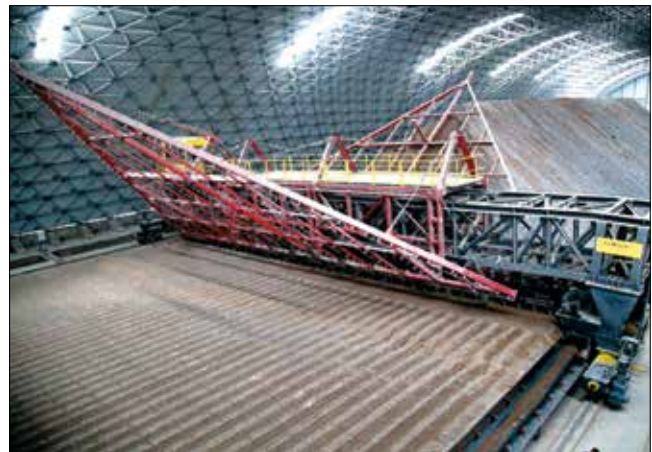
Cement plant of Almalyk mining and metallurgical complex is based on production of white and construction Portland cement, with a full project capacity of white Portland cement of 350 thousand tons per year, or construction cement 760 000 tons per year. It was established in Jizzakh region, in 2014.

The project capacity of the cement plant after the implementation in 2016 of the investment project on expansion of capacity is, accordingly, the white Portland cement is 460

thousand tons per year, or construction portland cement 1 million tons per year.

The construction and capacity expansion of the plant carried out by Company «DALTEKNIK MAKINATICARETVE SANAYI A. S.» (Turkey).

Prerequisites for the establishment of the plant was the improved utilization of existing deposits of limestone and loess, and the existing strong demand for cement, both domestic and foreign markets..



## Products

### Copper Rod



Quality parameters of the product:	mark KM0, diameter 8 mm
Production volume:	more than 10 thousand tons
Quality Certificate:	O z DST 2809:2013
Packaging:	coves on pallets
Application	Copper rod is a very popular type of metal-roll, which has good thermal and electrical conductivity, as well as ductility, which allows it to be used for the manufacture of wire, contact wires and other modern cable and conductor products.

### Copper Tubes



Quality parameters of production	copper pipes of various diameters
Production volume	more than 3 thousand tons per year
Quality certificate	Ts 00193950-006:2014
Application	copper pipes are used in hot and cold water supply systems, heating systems, gas pipelines and other engineering systems, as well as in refrigeration equipment and heat exchangers
Form and packaging	the mass of pipes in coves should be from 80 kg to 300 kg. Pipes in coves and bundles are packed in plastic wrap and placed in wooden boxes on pallets or in boxes of corrugated cardboard according to GOST 7376

#### Mechanical properties of pipes must meet the following:

Nominal outer diameter, mm	Delivery form	Material condition	Temporary resistance 6v, MPa (kgf/mm <sup>2</sup> ), not less	Relative lengthening 55%, not less
<b>From 3.0 to 19.0 incl.</b>	In coves	Soft	210 (21)	36
<b>From 3.0 to 44.0 incl.</b>	In the segments	Semi-solid	240 (25)	11
<b>From 3.0 to 44.0 incl.</b>	In the segments	Solid	280 (29)	3

## Copper Wire



Quality parameters of production	mark MM, diameter 1–4 mm
Production volume	more than 2 thousand tons per year
Quality certificate	TSH 05755737-008:2013
Application	the wire is intended for the manufacture of cable products, as well as for other electrical purposes.
Form and packaging	the weight of the wire is not less than 40 kg.

## Zinc Oxide



Product quality parameters	mark BC 1
Production volume	more than 2 thousand tons per year
Quality certificate	GOST 202-84
Sphere of use	For the production of paints, asbestos products, artificial leather and sole rubber.
Form and packaging	Packaging - 25 kg in polypropylene bags with a polyethylene liner.

### Zinc oxide meet the requirements specified in the table:

Name of the indicators	Standard
Mass fraction of zinc compounds (Zn), in terms of zinc oxide (ZnO)%, not less	99,5
Mass fraction of lead compounds (Pb) in terms of lead oxide (PbO)%, not more than	0,010
Mass fraction of substances insoluble in hydrochloric acid,%, not more than	0,015
Mass fraction of water-soluble substances,%, not more than	0,15
Mass loss during ignition,%, not more than	0,3
Hiding power, g / m <sup>2</sup> , not more	130
Whiteness, conventional units, not less	95



## State Company «Navoi Mining and Metallurgical Combine»

The state enterprise Navoi Mining and Metallurgical Combine (NGMK) - increasing the efficiency of using mineral resources, increasing the volume of highly liquid products and the intensive development of new types of production. Being a diversified mining and processing enterprise, the plant produces several dozen product items. Among the export-oriented products of the plant are uranium, ammonium perrhenate, gold jewelry, machine tool products. Also, the plant is developing deposits of phosphorite, quartz sand, limestone, etc.

### Production of ammonium perrhenate

“NGMK” produces ammonium perrhenate (NH<sub>4</sub>ReO<sub>4</sub>) of AP-0 grade in accordance with GOST 31411-2009. Ammonium perrhenate is used for the manufacture of electronic devices and also in aircraft building and in space technology, as well as in the cracking of petroleum.

**Technical characteristics of ammonium perrhenate production NMMK The concentration of rhenium in ammonium perrhenate, min. 69.1%:**

Impurity	Standard concentration of impurities, not more than
Phosphorus (P), %	1*10 <sup>-3</sup>
Sulfur (S), %	2*10 <sup>-3</sup>
Iron (Fe), %	5*10 <sup>-4</sup>
Silicon (Si), %	1*10 <sup>-3</sup>
Manganese (Mn), %	1*10 <sup>-4</sup>
Magnesium (Mg), %	2*10 <sup>-4</sup>
Nickel (Ni), %	2*10 <sup>-4</sup>
Aluminum (Al), %	5*10 <sup>-4</sup>
Molybdenum (Mo), %	5*10 <sup>-4</sup>
Calcium (Ca), %	1*10 <sup>-3</sup>
Copper (Cu), %	1*10 <sup>-4</sup>
Potassium (K), %	5*10 <sup>-3</sup>
Sodium (Na), %	1*10 <sup>-3</sup>
Moisture content	not subject to standard

### Jewelry Production

“NGMK” supplies jewelry, such as gold of 585 and 750 grades. All products of the “NGMK” jewelry factory are produced on equipment imported from Italy, Canada, England and Switzerland. The organization of work in the jewelry factory meet the requirements of the international standard “ISO 9001:2000”, which is confirmed by a certificate of the Quality Management System.

Main types of products are chains, bracelets and wedding rings.



## Production Association «Navoi Machine-Building Plant»

Production Association «NMBP» is a structural unit of “NGMK” with more than 3000 employees. The plant is engaged in repairing and manufacturing of various spare parts for mining, crushing and grinding machinery, non-standard equipment, as well as the production of metalworking machines..

### Turning and Screw-cutting Lathe Model «1M36H-163H»

The lathe 1M63H has up-to-date technical features, which enables workpiece machining by advanced cutting modes. It is sufficiently rigid and resistant to vibration, highly-mechanized, easy-to-operate. The lathe is equipped with tri-seat spindle unit with double-row roller bearings which provides high processing accuracy. Upper support mechanical feed makes it possible to efficiently process both short and long tapers by differential combination of feeds. Support holders allow processing of workpieces in wide range of diameters and are additionally fitted with changeover rollers..



#### Main Features

Admitted diameter of set workpiece over frame, mm	680 (840)
Admitted diameter of workpiece over frame, mm	630
Admitted diameter of workpiece over support, mm	350
Extreme length of set workpiece in centers, mm	1500; 3000
Spindle flange end (GOST 12593-93)	8
Spindle's centre with cone "Morse"	6
Quill's centre with cone "Morse"	6
Spindle cylindrical opening diameter, mm	70
Spindle rotation velocity range, rpm	10...1250
Number of spindle rotation velocity steps	22(11)
Maximal weight of workpiece in centers, kg	2200
Feed range (traverse motion, Z-line, cross-feed, X-line).mm/r	0,064...1,025 0,026...0,378
Accelerated support travel (traverse motion, Z-line, cross-motion, X-line) mm\min	4500; 1600
Main drive electrical motor power, kW	15
Overall dimensions (length/width/height), mm	1780/1550 (1860/1625)
Overall dimensions (length/width/height), mm	3740 ; 5240
Weight, max kg	4840 (4800); 5750 (5700)



## Roughing and Grinding Machine Model “3H340”



Double-ended roughing-and-grinding machine is intended for mechanical works (deflashing, chamfering, trimming etc.) as well as for sharpening cutters and drills.

### Main Features

Grinding wheels, mm	ПП400x40x203 (ПП400x40x127)
Grinding wheel number, pcs.	2
Height of grinding wheel centers from floor, min mm	900
Distance between grinding wheels, mm	710
Peripheral velocity, m/s	30
AC mains supply conditions: Voltage, V / Frequency, Hz	80/50
Electrical motor: power, kW / speed, rpm	3/1500
Overall dimensions, mm	930x640x1300
Weight, max, kg	350

## Purpose-built Benchdrilling Machine Model “21H16”



Special-purposed drilling bench machine is intended for drilling up to 16mm holes in repair utilizing and drilling work mechanization for manufacturing and repairing of different equipment on plant and mobile repair stations.

### Main Features

Admitted drilling diameter in SS45, mm	16
Maximal spindle travel, mm	100
Distance from lower spindle end to bench plate (maximal/minimal), mm	410/110
Spindle taper (GOST 25557-82-Morze)	2
Maximal feed force (power at handle=80N), N	700
Spindle rotating speed, rpm	500, 900, 1500, 2700, 4000
Mains voltage, V	380
Power electrical motor, kW	1,1 (0,75)
Electrical motor speed, rpm	1420 (1365)
Bench top dimensions, mm	320x360
Overall dimensions (length/width/height with lowered spindle toolhead), mm	800 x 465 x 860
Weight, max kg	
Масса станка, не более, kg	160 (100)





## Multipurpose Turning Lathe with Electronic Control System and Advanced Functionality Machine Model “HT-250M”

Versatility. Simplicity in operation. Advanced functions of versatile machine tool. Availability of maintaining steady cutting speed mode in end turning. Automatic machining cycle includes up to 99 programmable frames:

- hands-off mode of the cycle adjustment;
  - programs can run frame-by-frame (single-block operation);
  - cycle geometry lies in relative reference frame of travel dimensions, which makes it possible to move the entire cycle along X and Z lines to any place of the working zone;
- Electronic programming. Machining zone limitation. On-line adjustment of the modes and dimensions in working travel process.



### Main Features

Maximal diameter of set workpiece over frame, mm	500
Maximal diameter of a workpiece over support, mm	210
Maximal length of set workpiece in centers, mm	1000
Maximum length workpiece machining in centre, mm	905
Centre in the spindle with cone “Morse” according to GOST 13214-79	6
Center in quill with “Morse” taper according to GOST 13214-79	5
Spindle speed range, rpm	2...2500
Reverse movement and thread pitch range (infinitely variable control), mm/r	0...300
Increment of travel settings (traverse motion, Z-line, cross-travel, X-line), mm	0,001; 0,001
Rapid run velocity (traverse motion, Z-line, cross-travel, X-line), not less than, mm/min	4500; 4500
Main drive electric motor power, not less than, kW	7,0
Overall dimensions of machine, (length/width/height), mm	3320x1500x1620
Weight, not more than, kg	3100

## Vertical Milling and Boring Machine Model “HΦ630M-03”

Boring and milling vertical CNC lathe is for complex processing with milling, drilling, boring method and details screw cutting (frame and fundamental, ferrous and nonferrous metals and some types of plastic) under CNC control at the plants with small-and-medium scale production.

### Main Features

Tabletop dimensions (length/width), mm	800/500
Maximum dimensions of workpiece, mm,	800x500x500
Admitted weight of a workpiece, kg	500
Minimum distance from the spindle nose and the table, mm	180
Maximum table movement X-axis, mm	630
Y-axis carriage travel capacity, mm (with a workpiece and platen)	400
Z-axis spindle headstock travel capacity with a tool, mm,	500
Feed range, mm/minute (X-; Y-; Z-)	1–4000
Positioning accuracy, mm	0,01
Accuracy of positioning repeatability, mm	0,01
Main drive electrical motor power, kW	7,5
Maximum spindle torque, N•m	350
Spindle speed range with stepless regulation, rpm, min -1	80-3550
Total power, kW	40
Overall dimensions, mm (length/width/height)	2900 x 3150 x 3500
Weight, max, kg	6700
Konad spindle with a cone in accordance with GOST 24644	50



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## JSC «Uzbek Metallurgical Plant»



JSC «Uzbek Metallurgical Plant» is the leading ferrous metallurgy enterprise in the Republic of Uzbekistan. Its activity started on March 5, 1944 with the launch of the open-hearth furnace. The main activity of the plant is the production of rolled products from ferrous metals such as rebar, round bars, square, angles, channels, hexagonal sections, strip and steel grinding balls for ball mills.

Along with this, the plant produces products from copper and its alloys (foil, tape, strip, sheets), thermal insulation materials based on basalt (cotton wool, mats, and plates), consumer goods (steel enamel ware, welding electrodes) and other products.

### The structure of JSC «Uzmetkombinat»

The Uzbek Metallurgical Plant has:

Steelmaking production consisting of pile-making and electric steel-smelting workshops

Rolling production, consisting of two section-rolling shops and one steel-wire shop, providing the production of high-quality rolled metal, general-purpose steel wire and grinding balls

Production of non-ferrous metals, ensuring the production of brass and copper strips, with a design capacity of 3.0 thousand tons per year

Production of consumer goods, producing steel enameled ware in the amount of 2,000 tons, welding electrodes and metal products in the amount of 1,200 tons per year.

Production of heat-insulating materials, providing release of heat-insulating materials on the basis of basalt (mineral wool, mats, plates) in the amount of 10.0 thousand tons per year.

Structural subdivisions of the services of the chief mechanic and chief power engineer, ensuring the functioning of the plant's infrastructure, the production of argon, nitrogen, oxygen and spare parts

## Rebar



Name of product	Dimensions mm	Designation of normative-technical document			Technical characteristics		HS code
		Assortment	Steel grade	Technical requirements	Class of strength, category, group	Steel grade	
Hot rolled steel for reinforcement of ferroconcrete structures	Ø8, 10, 12, 14, 16, 18, 20, 22, 25, 28, 32, 36,40	O'zDSt 3025-2015	O'zDSt 3025-2015 GOST 5781-82	O'zDSt 3025-2015	A-III (A 400) A-IV (A 600)	35ГC; 25Г2C 20ХГ2Т	7214200000
					A-II (A 300)	Ст5пс, Ст5сп	

## Square



Name of product	Dimensions mm	Designation of normative-technical document			Technical characteristics		HS code
		Assortment	Class of strength, category, group	Class of strength, category, group	Class of strength, category, group	Steel grade	
Hot rolled steel square (conventional accuracy-B1) w	Ø8, 10, 12, 14, 16, 18, 20	GOST 2591-06	GOST 380-05	GOST 535-05	category 1÷7	Ст 0, Ст3пс, Ст3сп, Ст5пс, Ст5сп, Ст6пс, Ст6сп	7215501900



## Circle



Name of product	Dimensions mm	Designation of normative-technical document			Technical characteristics		HS code
		Assortment	Steel grade	Technical requirements	Class of strength, category, group	Steel grade	
Hot rolled steel round (standard accuracy)	Ø 10 12 14 16 18 20 22 25 28 32 36 40 42	GOST 2590-06	GOST 380-05	GOST 5781-82	A-I (A 240)	Ст3пс, Ст3сп	7214993900
Rolled steel round with increased strength			GOST 19281-89		class of strength 265, 295, 325, 345 category 1, 2, 3, 4, 10, 11, 12	09Г2С	
Hot rolled steel round (normal accuracy)	Ø 10; 12; 14; 16; 18; 20; 22; 25; 28; 32; 36; 40; 42	GOST 2590-06	GOST 380-05	GOST 535-05	category 1÷7	3Ст 0, Ст3пс, Ст3сп, Ст5пс, Ст5сп, Ст6пс, Ст6сп	7214993900 7214997900
	Ø 25; 28; 36; 42		GOST 1050-88			Ст45	7214997900
Hot rolled steel round (normal accuracy) in coils	Ø 12	GOST 2590-06	GOST 380-05	GOST 30136	УО1, БО	Ст3сп	7214993900
			GOST 14959		subgroup - b, category 1, 1A, 1B, 4, 4A, 4B	65Г	
			GOST 4543-71		Chromium, hot rolled (T), group 1, 2	35ХГСА	
	Ø 15; 16; 20;		GOST 380-05	GOST 30136	УО1, БО	Ст3сп	7214993900
Hot rolled steel round (normal accuracy)	Ø 65; 80; 100; 120; 140; mm	GOST 2590-06	GOST 380-05	GOST 380-05	category 1÷7	Ст 0, Ст3пс, Ст3сп	7214997100

## Hexagon



Name of product	Dimensions mm	Designation of normative-technical document			Technical characteristics		HS code
		Assortment	Steel grade	Technical requirements	Class of strength, category, group	Steel grade	
Hot rolled steel, hexahedral	S=14; S=17; S=19; S=22; S=24.	GOST 2879-06	GOST 380-05	GOST 535-05	Category 1÷7	Ст 0, Ст3пс, Ст3сп, Ст5пс, Ст5сп, Ст6пс, Ст6сп	7215501900

## Channel



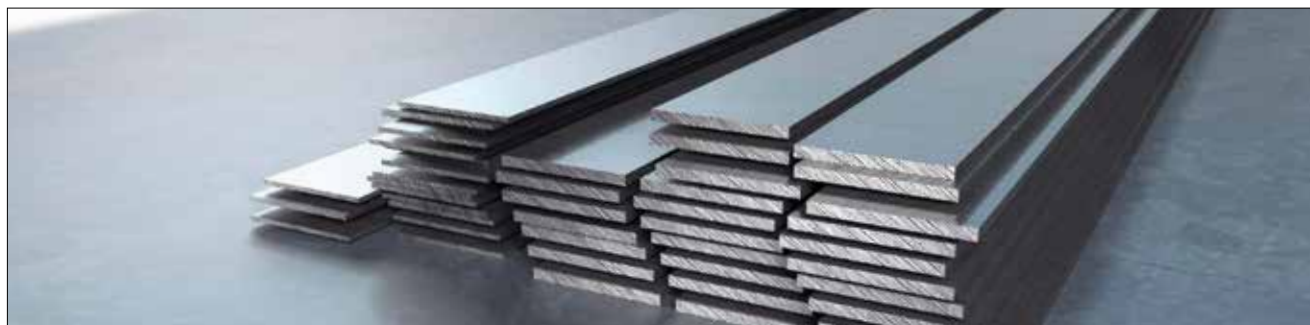
Name of product	Dimensions mm	Designation of normative-technical document			Technical characteristics		HS code
		Assortment	Steel grade	Technical requirements	Class of strength, category, group	Steel grade	
Hot rolled steel channels with parallel faces	6,5П 8П 10П	GOST 8240-97	GOST 380-05	GOST 535-05	Category 1÷7	Ст 0, Ст3пс, Ст3сп, Ст5пс, Ст5сп, Ст6пс, Ст6сп	7215501900
Steel channel for building constructions			GOST 27772-88		C 245, C 255, C 275, C 285		7216311000

## Angle



Name of product	Dimensions mm	Designation of normative-technical document			Technical characteristics		HS code
		Assortment	Steel grade	Technical requirements	Class of strength, category, group	Steel grade	
Hot rolled steel angles equilateral (normal accuracy)	2,5 (25x25x4) 3,0 (30x30x4) 3,2 (32x32x4) 3,5 (35x35x4) 4,0 (40x40x4) 4,0 (40x40x5)	GOST 8509-93	GOST 380-05	GOST 535-05	category 1÷7	Ст0, Ст3пс, Ст3сп, Ст4пс, Ст4сп, Ст5пс, Ст5сп, Ст6пс, Ст6сп.	7216501000
Hot rolled steel equal leg angles with increased strength	4,5 (45x45x4) 5,0 (50x50x4) 5,0 (50x50x5) 5,6 (56x56x4) 5,6 (56x56x5) 6,3 (63x63x5) 6,3 (63x63x6) 7,5 (75x75x6) 8,0 (80x80x6)		GOST 19281-89	Class of strength 325, 345 category 1÷4	09Г2С		

## Strip



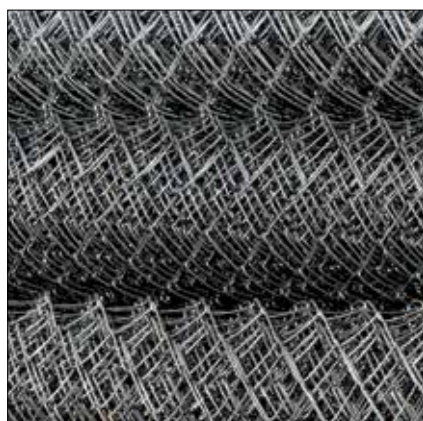
Name of product	Dimensions mm	Designation of normative-technical document			Technical characteristics		HS code
		Steel grade	Technical requirements	Class of strength, category, group	Steel grade	Марка стали	
Hot-rolled steel strips for general purpose (normal accuracy)	36×6, 40×5 40×10, 40×12, 50×5 50×10, 50×12, 50×16, 50×20, 60×12	GOST 103-2006	GOST 380-05	GOST 535-05	Category 1÷7	Ст 0, Ст3пс, Ст3сп, Ст5пс, Ст5сп, Ст6пс, Ст6сп	7214919000

## Grinding balls



Name of product	Dimensions mm	Designation of normative-technical document			Technical characteristics		HS code
		Assortment	Steel grade	Technical requirements	Class of strength, category, group	Steel grade	
Grinding steel balls for ball mills	Ø 40 67 80 100 120	GOST 7524-2015			Hardness groups 1, 2, 3	Carbon and low alloy steels	7326110000

## Metal products



Name of product	Dimensions mm	Designation of normative-technical document			Technical characteristics		HS code
		Assortment	Steel grade	Technical requirements	Class of strength, category, group	Steel grade	
General purpose low carbon steel wire	Ø 2,0-8,0	GOST 3282-74	GOST 380-05 GOST 1050-88	GOST 3282-74	I, II	Low carbon steel	7217103900
Cold-drawn low carbon steel wire for reinforced concrete	Ø3,0 4,0 5,0	GOST 6727-80		GOST 6727-80	Bp-1	Low carbon steel 10,15,20 Ст3пс, Ст3сп	7217103100
Welding steel wire	Ø 2,5; 3,0; 4,0; 5,0	GOST 2246-70			Э	Св-08, Св08ГС, Св-08А	7217103900
Welding wire	Ø 2,0 3,0 4,0	GOST 10543-98			-	Нп 30ХГСА, Нп 65Г	721710 5000
Wire barbed mono-basic	Ø 2,8	GOST 285-69	GOST 1050-88 GOST 380-05	GOST 285-69	-	Low carbon steel	7313000000
Welding electrodes	Ø 3,0; 4,0; 5,0.	GOST 9467-75			Э50 Э46	Св-08, 08пс, 08, Св08ГС, Св-08А	8311100000
Construction nails	Ø2,5÷5,0 длиной 40÷200 Ø2.5 ÷ 5.0	GOST 4028-63 GOST 4030-63	GOST 380-05 GOST 1050-88	GOST 283-75	-	Low carbon steel	7317006000
Single-stranded steel grid No. 10, 20, 45	1500 mm	GOST 5336-80	GOST 380-05 GOST 1050-88	GOST 4543-71	GOST 5336-80	Low carbon steel	7314190000
Enamelled steel kitchen utensils	43 types	GOST 24788-01	GOST 9045-75	GOST 24788-01	-	08кп, 08пс	7323940000



## Products from copper and alloys



Product	GOST	Mark of alloy	Condition	Dimensions		
				Thickness, mm	Width, mm	Length, mm
Foils, ribbons, sheets of copper	1173-2006	M1 Cu-Etp	мяг; п/тв; тв	0,03÷4,0	10 ÷ 440	by order
Foils, ribbons, sheets of brass	2208-2007	Л90; Л85; Л80; Л70; Л68; Л63 CuZn10 CuZn30; CuZn32; CuZn37		0,03÷4,0	10 ÷ 440	by order
Ribbons of copper and brass for radiators	20707-80	M1; Л90; Л63; Cu; CuZn10; CuZn37		0,03÷0,25	10 ÷ 200	in rolls
Copper foil for radiator	Tsh 143-025-2011	CuSn 0.1	п/тв; тв	0,03÷0,10	10 ÷ 200	in rolls
Foils, ribbons, sheets of copper for electrical purposes	1173-2006, 434-78	M1E; M06 of-Cu	мяг; п/тв; тв	0,03÷4,0	10 ÷ 440	in rolls

## Thermal insulation materials



Name of product	Type	Density Kg / m <sup>3</sup>	Thickness mm	Length mm	Width mm	GOST	HS code
Bara	-	50-80 50-125	-	-	-	4640-2011	6806100008
Mats	without facing		50-120	1000-6000	1200	21880-11	
	with a mesh of metal mesh						
	with aluminum foil lining						
Plates	Soft	40-50	50-150	600-1200	400, 600, 1200	9573-2012	
	Semi-rigid	60-80	30-150				
	Rigid	100-140	50-150				
	Increased rigidity	160	30-90				

## Non-metallurgical products



Name of product	Characteristics and mark	Designation of normative and technical document	HS code
Argon	liquid and gaseous	GOST 10157-79	2804210000
Oxygen gaseous	technical	GOST 5583-78	2804400000
Oxygen liquid	technical	GOST 6331-78	2804300000
Nitrogen	liquid and gaseous	GOST 9293-74	3810100000
Welding flux AH-348-A	Granular from 0.35 to 4.0mm	GOST 9087-81	2618000000
Welding flux AH-348-AM	Granular from 0.25 to 1.6 mm	Tsh 64-001-	3810100000
Steelmaking slag (Additive - filler for cement production)	-	86200-01:2011	2619002000
Iron scale - a component of the raw mix for clinker production	-	GOST 9087-81	2804210000



# Quality certificates



### Contacts:

JSC «Uzmetkombinat»

Address: 1, Sirdaryo str, Bekabad, Tashkent region, 110502

Tel: +99870 214-14-23, +99870 913-26-74

E-mail: info@uzbeksteel.luz, marketing@uzbeksteel.luz

### Representative in Tashkent:

Address: T. Shevchenko str, Tashkent

Tel: +99871 256-57-65

E-mail: predstavitelstvo@uzbeksteel.uz

## Automotive Industry



# UzAuto

## SC "Uzavtosanoat"

SC "Uzavtosanoat", established by the initiative and governance of President of the Republic of Uzbekistan Islam Karimov, during the years of independence became a symbol of constructive potential of our economy. Development strategy, based on equal and mutually beneficial relations with leading companies, is aimed to production of competitive goods answering international standards.

For today Uzbekistan is a unique producer of total spectrum of light vehicles and commercial techniques on the territory of Central Asia. More than 85 enterprises are members of the group, also partnering with more than 200 foreign enterprises and organizations. Nowadays the company presenting more than 26 thousands of working places.



ISUZU



### Contacts:

SC "Uzavtosanoat"

Address: Republic of Uzbekistan, 100000, Tashkent, Mirabad distr., Amir Temur str., 13

Tel: +99871 140-76-50, +99871 140-76-66

Fax: +99871 232-34-34

E-mail: [info@uzavtosanoat.uz](mailto:info@uzavtosanoat.uz)



## SC «GM Uzbekistan»

SC “GM Uzbekistan”, located in Asaka (Andijan region) was established by SC “Uzavtosanoat” and General Motors Company on March 2008. SC “GM Uzbekistan” produces more than 250 thousand cars per year and supplies as for the domestic market and for export, including CIS countries and the Middle East.

### Founders:

75% — SC Uzavtosanoat (Uzbekistan)  
25% — General Motors Company (USA)

### Factory:

Total area — 72 hectares Production area 192 000 sq m.

### Locations:

1. Main: Asaka, Andijan (Plant CKD)
2. Branch: Khorezm Auto, Urgench, Khorezm (PlantSKD, CKD)
3. Branch: Tashkent city, (Plant SKD)

### Products:

Damas, Labo, Matiz, Spark, Nexia, Cobalt, Lacetti/Gentra, Captiva, Malibu, Orlando

**Staff:** — 11 000 employees.

### Quality certificates:

ISO 9001:2000; ISO 4001:2004,  
OHSAS 18001:2007; SO 9001:2008,  
OHSAS 18000:1999



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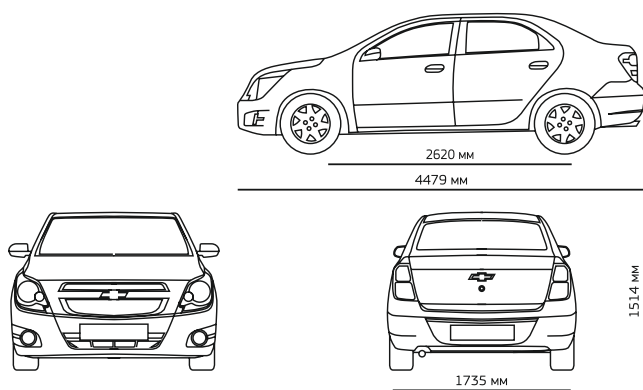




## Cobalt/ R4



### Dimensions



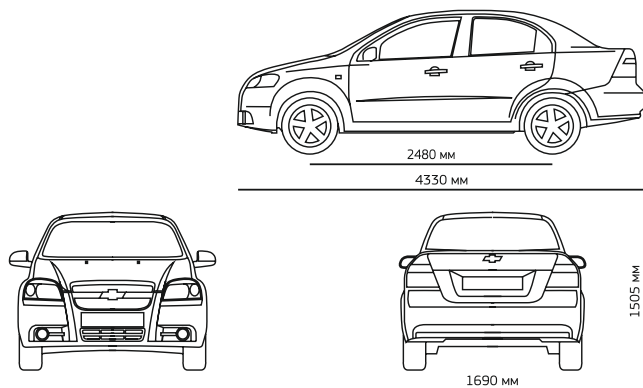
### Technical Specifications

Engine Cylinder	4 in line
Engine, cm3	1485
Max. power, hp Torque, N*m	106 at 5800 rpm 134 at 4000 rpm
Transmission type	5MT/6AT
Front	Mac Pherson
Rear	Torsion beam
Front/rear brakes	Disc/Drum
Dimensions	4479x1735x1514
Wheel base, mm	2620
Minimum turning radius, m	5
Trunk volume	563
Curb weight, kg	1097/1168
Max. weight, kg	1590/1620
Maximum speed, km/ph	169/170
Acceleration 0-100 km/ph, per/sec	11,7/12,6
Combined	6,2/6,7
Fuel type	AI-92
Fuel tank capacity	47

## Nexia/ R3



### Dimensions



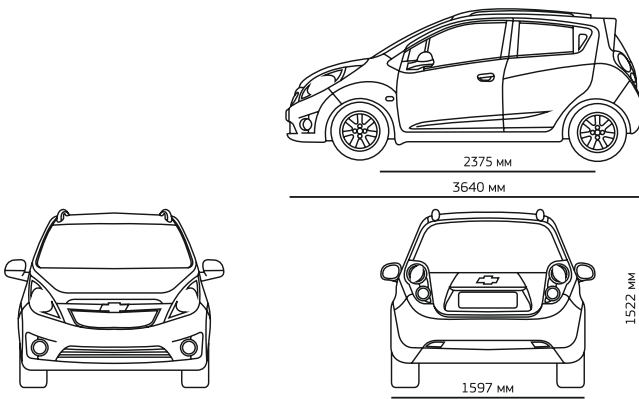
### Technical Specifications

Engine Cylinder	4 in line
Engine, cm3	1485
Max. power, hp	105 at 5800 rpm
Torque, N*m	141 at 3800 rpm
Wheel drive	FWD
Transmission type	5MT/6AT
Front	Mac Pherson
Rear	Semi - dependant
Front/rear brakes	Disc/Drum
Dimensions	4330x1690x1505
Wheel base, mm	2480
Minimum turning radius, m	5030
Internal dimensions Trunk volume	400/980 l
Curb weight, kg	1190/1230
Max. weight, kg	1520/1560
Maximum speed, km/ph	178/179
Acceleration 0-100 km/ph, per/sec	12,2/12,3
Fuel consumption	6,5/7
Fuel type	AI-92
Fuel tank capacity	45

## Spark/ R2



### Dimensions



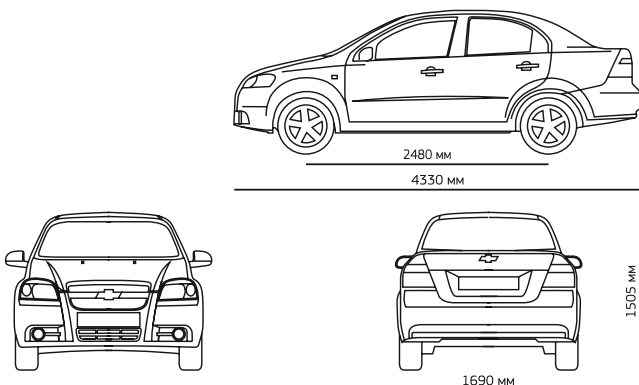
### Technical Specifications

Engine Cylinder	4 in line
Engine, cm <sup>3</sup>	1249
Max. power, hp	83,4 at 6200 rpm/85 at 6400 rpm
Torque, N*m	112,5 at 4200 rpm/112,5 at 4400 rpm
Transmission	4 АКПП
Wheel drive	FWD
Transmission type	4 AT
Suspension system	
Front	MacPherson
Rear	Semi-dependant
Front/rear brakes	Disc/Drum
Dimensions	3640x1597x1522
Wheel base, mm	2375
Minimum turning radius, m	5000
Trunk volume	170/5681
Curb weight, kg	1054
Max. weight, kg	1365
Maximum speed, km/ph	161
Acceleration 0–100 km/ph, per/sec	12,4
Fuel consumption	6,2
Fuel type	AI-92
Fuel tank capacity	35

## Lacetti/ Gentra



### Dimensions



### Technical Specifications

Engine Cylinder	4 in line
Engine, cm <sup>3</sup>	1485
Max. power, hp	107 at 5800 rpm
Torque, N*m	141 at 3800 rpm
Transmission Wheel drive	FWD
Transmission type	5MT/6AT
Suspension system	
Front	Mac Pherson
Rear	Independent
Front/rear brakes	Disc/Disc
Dimensions	4515x1725x1445
Wheel base, mm	2600
Minimum turning radius, m	5020
Trunk volume	405/12251
Curb weight, kg	1245/1300
Max. weight, kg	1660/1680
Maximum speed, km/ph	180/179
Acceleration 0-100 km/ph, per/sec	13/13,1
Fuel consumption	7/7,5
Fuel type	AI-92
Fuel tank capacity	60



## «SamAuto» LLC

“SamAuto” LLC was established in 1999, since 2007 started cooperation with ISUZU Motors. It is specializing in the production of commercial vehicles (buses and trucks). “SamAuto” LLC products are supplied to the domestic market and for export as well, including to CIS countries and the Middle East.

### Founders:

58% — SC Uzavtosanoat (Uzbekistan);  
26% — SJSC Bank Asaka (Uzbekistan),  
8% — Itochu Corporation (Japan);  
8% — Isuzu Motors (Japan)

### Factory:

Production capacity — 4 000 per year

### Location:

5, S. Bukhoriy str., 140160, Samarkand, Republic of Uzbekistan

### Products:

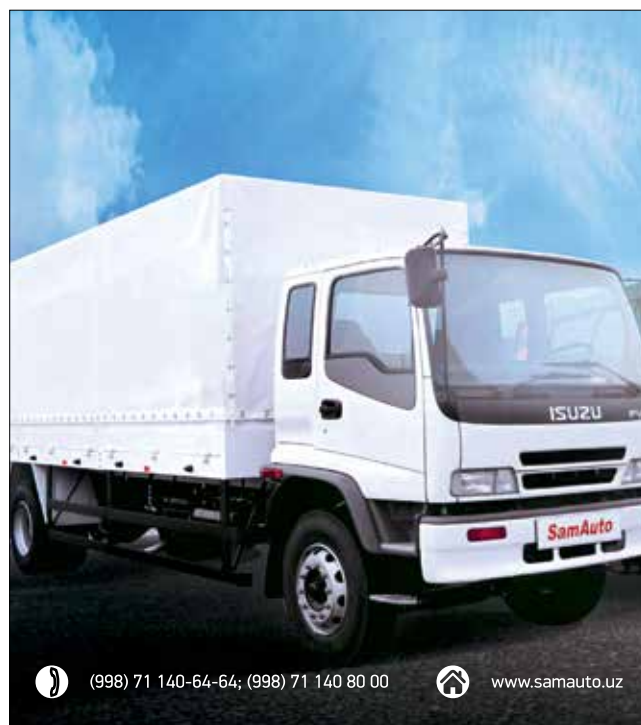
Buses (M3 category; I, II and III classes), medium duty and heavy duty trucks (N2 and N3 category), special body trucks.

### Staff:

More than 980 employees.

### International certificates:

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



(998) 71 140-64-64; (998) 71 140 80 00



[www.samauto.uz](http://www.samauto.uz)





## City low-floor Bus SAZ LE60



### Technical Specifications

Vehicle category	M3
Dimensions mm	8065X 2470 x 2750
Gross vehicle weight, kg	10 200
Body type	monocoque
Permissible mass per axle, kg:	
front axle	3700
rear axle	6 500
Wheel formula / driving mode	4x2/ rear
Passenger capacity, persons	56
Number of seats for passengers/ for mw	25/1
Base, mm	4 540
Bus track, mm:	1648/2162
front wheels	2 089
rear wheels	1 648/2162
Engine	ISUZU 4HK1-TCC
number of cylinders	4 in line
compression ratio	17,5:1
displacement, cc	5 193
max. power, kW/hp (rpm)	140/190(2 6 00)
max. torque. Nm (rpm)	510(1600)
Transmission	Allison 2100
number of speeds / type	5 / automatic
Brake system	disk with vacuum booster
Stabilizers	yes
ABS system	EBS
Fuel type / fuel tank capacity, l	diesel/140
Fuel consumption, l/100 km	25 ± 2

## Suburban Bus SAZ HD50



### Technical Specifications

Vehicle category	M3
Dimensions mm	7995x 2320 x 2820
Gross vehicle weight, kg	9500
Body type	frame
Permissible mass per axle, kg:	
front axle	3100
rear axle	6400
Wheel formula / driving mode	4x2 / rear
Passenger capacity, persons	44
Number of seats for passengers/ for crew	29/2
Base, mm	4475
Bus track, mm:	1650/2260
front wheels	1869
rear wheels	1 650/2 260
Engine	ISUZU 4HK1-TCN
number of cylinders	4 In line
compression ratio	17,5:1
displacement, cc	5 193
max. power, kW/hp (rpm)	114/155 (2 600)
max. torque, Nm (rpm)	419 (1 800)
Transmission	MYY6S
number of speeds / type	6/ manual
Brake system	disk with vacuum booster
Stabilizers	yes

## SAZ HC40 Bus (I class)



### Technical Specifications

Vehicle category	M3
Driving system/leading wheels	rear
Passenger capacity, persons	38
Seat capacity	
passengers	16
crew	1
But dimensions (length/wldth/helght), mm	6920/2240/2880
Wheel base, mm	3815
Curb weight kg	4 250
Gross vehicle weight, kg	7 000
Engine location	front, longitudal
Engine	ISUZU 4HF1 four-stroke engine
cylinder number and location	4 In line
compression ratio	19:1
displacement, ce	4 334
max output, kW/horsepower	78/ 104 (3200 rpm)
max torque, Nm	268 (1800 rpm)
Fuel type	diesel
Fuel tank capacity, liter	100
Max. speed, km/h	90

## SAZ NP26 bus (II class)



### Technical Specifications

Vehicle category	M3
Driving system/leading wheels	rear
Passenger capacity, persons	26
Seat capacity	
passengers	24
crew	2
Bus dimensions (length/widtfi/height), mm	6920/2250/2880
Wheel base, mm	3815
Curb weight, kg	4350
Gross vehicle weight, kg	6 500
Engine location	front, longitudal
Engine	ISUZU4HF1 four-stroke engine
cylinder number and location	4 in line
compression ratio	19:1
displacement, cc	4334
max. output, kW/horeepower	78/104(3200 rpm)
max. torque, Nm	268 (1800 rpm)
Fuel type	diesel
Fuel tank capacity, liter	100
Max. speed, km/h	90

## Cargo Tent Truck "ISUZU" NQR71PL

### Technical Specifications

Dimensions (length/width/height), mm	6730x2300x3098
Inside body dimensions, mm	4860x2160x1950
Payload, kg	4 400
Vehicle category	N2
Engine	ISUZU 4HG1
Van "ISUZU" NQR71PL four-stroke engine, interceded turbo	4 в ряд
cylinder number and location	4 in line
compression ratio	19:1
displacement, cc	4 554
max. output, kW/horsepower	89/121 (3200 rpm)
max. torque, Nm	304 (1800 rpm)
Driving system/leading wheels	4x2 rear
Wheel base, mm	3815
Front track/ rear track, mm	1670/1390/1900
Suspension	semi-elliptic leaf springs hydraulic telescopic double acting shock absorbers
Stabilizers	front and rear axle stabilizers
Clutch	ISUZU dry single plate clutch
Transmission type	MY5T
Steering system	hydraulic power steering
Brake system	dmm brakes, dual-drcult, with hydraulic booster
ABS system	yes
Fuel type	diesel
Fuel tank capacity, liter	100



## Van «ISUZU» NQR71PL

### Technical Specifications

The van can be also produced in following modifications: 1) isothermic van; 2) refrigerator van (+5° to -5° C; +5° to -18° C)	
Dimensions (length/width/height), mm	6730x2210x3098
Inside body dimensions, mm	4850x2160x1950
Payload, kg	4150
Vehicle category	N2
Engine	ISUZU 4HG1 four-stroke engine, intercooled turbo
cylinder number and location	4 in line
compression ratio	19:1
displacement, cc	4 554
max. output kW/horsepower	89/121 (3200 rpm)
max torque Nm	304 (1800 rpm)
Driving system/leading wheels	4x2 rear
Wheel base mm	3815
Front track/ rear track, mm	1670/1390/1900
Suspension	semi-elliptic leaf springs, hydraulic telescopic double acting shock absorbers
Stabilizers	front and rear axle stabilizers
Clutch	ISUZU dry single plate clutch
Transmission type	MY5T
Steering system	hydraulic power steering
Brake system	dmm brakes, dual-drcult, with hydraulic booster
ABS system	yes
Fuel type	diesel
Fuel tank capacity, liter	100



## Dump Truck "ISUZU" NQR71PL



### Technical Specifications

Dimensions (length/width/helght), mm	6214x2150x2454
Inside body dimensions, mm	3820x1870x470
Payload, kg	4 000
Body cubic capacity, №	3
Vehicle category	N2
Engine	ISUZU 4HG1 four stroke engine, interceded turbo
cylinder number and locator	4 in line
compression ratio	19:1
displacement, cc	4 554
max. output, kW/horsepower	89/121 (3200 rpm)
max torque Nm	304(1800 rpm)
Driving system/leading wheels	4x2 rear
Wheelbase mm	3 815
Front track/ rear track, mm	1670/1390/1900
Suspension	semi-elliptic leaf springs hydraulic telescopic double acting shock absorbers
Stabilizers	front and rear axle stabilizers
Clutch	ISUZU dry single plate clutch
Transmission type	MY5T
Steering system	hydraulic power steering
Brake system	drum brakes, dual-circuit, with hydraulic booster
ABS system	yes
Fuel type	diesel
Fuel tank capacity, liter	100

## Garbage Truck ISUZU NQR71PL



### Technical Specifications

Dimensions (length/width/helght), mm	7130x2240x2700
Gross vehicle weight, kg	8000
Payload, kg	2 020
Body cubic capacity, m3	7
Vehicle category	N2
Engine	ISUZU 4H81* four-stroke engine, interacted turbo
cylinder number and location	4 in line
compression ratio	19:1
displacement, cc	4 554
max. output, kW/horsepower	89/121 (3200 rpm)
max. torque, Nm	304 (1800 rpm)
Driving system/leading wheals	4x2 rear
Wheel base, mm	3 815
Front track/ rear track, mm	1670/1390/1900
Suspension	semi-elliptic leaf springs hydraulic telescopic double acting shock absorbers
Stabilizes	front and rear axle stabilizers
Clutch	ISUZU dry single plate clutch
Transmission type	MY5T
Steering system	hydraulic power steering
Brake system	drum brakes, dual-circuit, with hydraulic booster
ABS system	yes
Fuel type	diesel
Fuel tank capacity, liter	100

## Water Carrier "ISUZU" NQR71PL

### Technical Specifications

Dimensions (length/wldth/helght), mm	6700x2130x2560
Gross vehicle weight, kg	8000
Tank capacity, l	4170
Tank volume, m3	4
Vehicle category	N2
Engine	ISUZU 4HV1 four-stroke engine, intercooled turbo
cylinder number and location	4 in line
compression ratio	19:1
displacement, cc	4554
max. output, kW/horsepower	89/121 (3200 rpm)
max. torque, Nm	304 (1800 rpm)
Driving system/leading wheels	4x2 rear
Wheel base, mm	3815
Front track/ rear track, mm	1665/1650
Suspension	semi-elliptic leaf springs, hydraulic telescopic double acting shock absorbers
Clutch	ISUZU dry single plate clutch
Transmission type	MY5T
Steering system	hydraulic power steering
Brake system	drum brakes, dual-circuit, with hydraulic booster
ABS system	yes
Fuel type	diesel
Fuel tank capacity, liter	100



## Sanitation truck "ISUZU" NQR71PL

### Technical Specifications

Dimensions (length/wldth/helght), mm	6220x2180x2560
Gross vehicle weight, kg	8000
Tank capacity, l	4 000
Depth of cleared well, m	5
Vehicle category	N2
Engine	"ISUZU 4HVH four-stroke engine, intercooled turbo
cylinder number and location	4 in line
compression ratio	19:1
displacement, cc	4554
max. output, kW/horsepower	89/121 (3200 rpm)
max. torque, Nm	304 (1800 rpm)
Driving system/leading wheels	4x2 rear
Wheel base, mm	3815
Front track/ rear track, mm	1670/1390/1900
Suspension	semi-elliptic leaf springs, hydraulic telescopic double acting shock absorbers
Clutch	ISUZU dry single plate clutch
Transmission type	MY5T
Steering system	hydraulic power steering
Brake system	drum brakes, dual-circuit, with hydraulic booster
ABS system	yes
Fuel type	diesel
Fuel tank capacity, liter	100



## Watering machine "ISUZU" NQR71PL



### Technical Specifications

Dimensions (length/width/height), mm	6800x2170x2560
Gross vehicle weight, kg	8000
Tank capacity, l	3 800
Washing strip, m	18
Vehicle category	N2
Engine	ISUZU 4HV1 four-stroke engine, intercooled turbo
cylinder number and location	4 in line
compression ratio	19:1
displacement, cc	4554
max. output, kW/horsepower	89/121 (3200 rpm)
max. torque, Nm	304 (1800 rpm)
Driving system/leading wheels	4x2rear
Wheel base, mm	3815
Front track/ rear track, mm	1670/1390/1900
Suspension	semi-elliptic leaf springs, hydraulic telescopic double acting shock absorbers
Clutch	ISUZU dry single plate clutch
Transmission type	MYY5T
Steering system	hydraulic power steering
Brake system	drum brakes, dual-circuit, with hydraulic booster
ABS system	yes
Fuel type	diesel
Fuel tank capacity, liter	100

## Fire-fighting Vehicle "ISUZU" NQR71PL



### Technical Specifications

Dimensions (length/width/height), mm	6870x2150x250
Water tank volume, liter	1 700
Foam tank volume, liter	150
Fire pump model	Zeigler FPH 40-250-3L
Vehicle category	N2
Engine	ISUZU 4HG1 four-stroke engine, intercooled turbo
cylinder number and location	4 in line
compression ratio	19:1
displacement, cc	4 554
max. output, kW/horsepower	89/121 (3200 rpm)
max. torque, Nm	304 (1800 rpm)
Driving system/leading wheels	4x2 rear
Wheel base, mm	3 815
Front track/ rear track, mm	1670/1390/1900
Suspension	semi-elliptic leaf springs hydraulic telescopic double acting shock absorbers
Stabilizers	front and rear axle stabilizers
Clutch	ISUZU dry single plate clutch
Transmission type	MYY5T
Steering system	hydraulic power steering
Brake system	drum brakes, dual-circuit, with hydraulic booster
ABS system	yes
Fuel type	diesel
Fuel tank capacity, liter	100

## Telescopic truck "ISUZU" NQR71PL

### Technical Specifications

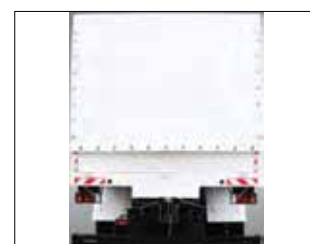
Dimensions (length/width/height), mm	7580x2400x3430
Gross vehicle weight, kg	8 000
Payload of bucket, kg	180
Height, m	18
Vehicle category	N2
Engine	"ISUZU 4HV1fbur-stroke engine, intercooled turbo
cylinder number and location	4 in line
compression ratio	19:1
displacement, cc	4554
max. output, kW/horsepower	89/121 (3200 rpm)
max. torque, Nm	304(1800 rpm)
Driving system/leading wheels	4x2rear
Wheel base, mm	3815
Front track/ rear track, mm	1670/1390/1900
Suspension	semi-elliptic leaf springs, hydraulic telescopic double acting shock absorbers
Clutch	ISUZU dry single plate clutch
Transmission type	MYY5T
Steering system	hydraulic power steering
Brake system	drum brakes, dual-circuit, with hydraulic booster
ABS system	yes
Fuel type	diesel
Fuel tank capacity, liter	100



## Cargo Tent Truck "ISUZU" FVR33P

### Technical Specifications

Dimensions (length/width/height), mm	9330x2500x3470
Payload, kg	7500
Inside body dimensions, mm	6900x2415x2000
Vehicle category	N3
Wheel base, mm	5 550
Permissible front/rear axle load, kg	6300/10500
Front track/ rear track, mm	1 970 /1 530/2 195
Engine	"ISUZU6H1-S" four-stroke engine
displacement, cc	8 226
max. output, kW/horsepower	147/200 (2850 rpm)
max. torque, Nm	500 (1700 rpm)
Driving system/leading wheels	4x2 rear
Suspension	semi-elliptic leaf springs, hydraulic telescopic double acting shock absorbers
Clutch	ISUZU dry single plate clutch
Transmission type	MLD6A
Steering system	hydraulic power steering
Brake system	pneumatic, dual-circuit, drum brakes
ABS system	no
Fuel type	diesel
Fuel tank capacity, liter	200



## Van "ISUZU" FVR33P



### Technical Specifications

Dimensions (length/wdth/height), mm	9360x2500x3420
Payload, kg	7 560
Inside body dimensions, mm	6900x2415x2000
Vehicle category	N3
Wheel base, mm	5 550
Permissible front/rear axle load, kg	6300/10500
Front track/ rear track, mm	1 970 /1 530/2 195
Engine	ISUZU6H1-S four-stroke engine
displacement, cc	8 226
max. output, kW/horsepower	147/200 (2850 rpm)
max. torque, Nm	500(1700 rpm)
Driving system/leading wheels	4x2 rear
Suspension	semi-elliptic leaf springs hydraulic telescopic double acting shock absorbers
Clutch	ISUZU dry single plate clutch
Transmission type	MLD6A
Steering system	hydraulic power steering
Brake system	pneumatic, dual-circuit, drum brakes
ABS system	no
Fuel type	diesel
Fuel tank capacity, liter	200

## Dump Truck "ISUZU" FVR33G



### Technical Specifications

Dimensions (length/width/height), mm	6500x2490x2950
Payload, kg	8 000
Inside body dimensions, mm	4192x2204x670
Vehicle category	N3
Wheel base, mm	5 550
Permissible front/rear axle load, kg	6300/10500
Front track/ rear track, mm	1 990 /1525/2 180
Engine	ISUZU6H1-S four-stroke engine
displacement, cc	8 226
max. output, kW/horsepower	147/200 (2850 rpm)
max. torque, Nm	500 (1700 rpm)
Driving system/leading wheels	4x2 rear
Suspension	semi-elliptic leaf springs hydraulic telescopic double acting shock absorbers
Clutch	ISUZU dry single plate clutch
Transmission type	MLD6A
Steering system	hydraulic power steering
Brake system	pneumatic, dual-circuit, drum brakes
ABS system	no
Fuel type	diesel
Fuel tank capacity, liter	200



## Fire-fighting Vehicle "ISUZU" FTR33H and "ISUZU" FVR23K

### Technical Specifications

Dimensions, mm	7780x2500x3050	8400x2500x3160
Water tank volume, liter	4 000	5 300
Foam tank volume, liter	400	340
Fire pump model	Zeigler FPH 40-250-3L (made in Germany)	Zeigler FPN10-3000-2H (made in Germany)
Permissible front/rear axle load, kg	4 000/11 500	6 300/13 000
Wheel base, mm	4250	4650
Engine	"ISUZU6H1-S" four-stroke engine	ISUZU6SD1 four-stroke engine
max. output, kW/horsepower	147/200 (2850)	177/240 (2500)
displacement, cc	8 226	9 839
Transmission type	MLD6A	MAL6S
Vehicle category	N3	
Suspension	semi-elliptic leaf springs hydraulic telescopic double acting shock absorbers	
Clutch	ISUZU dry single plate clutch	
Driving system/leading wheels	4x2 rear	
Steering system	hydraulic power steering	
Brake system	pneumatic, dual-circuit, drum brakes	
ABS system	no	
Fuel type	diesel	
Fuel tank capacity, liter	200	



## Street Sprinkler "ISUZU" FVR33G

### Technical Specifications

Dimensions (length/width/height), mm	8025x2900x2960
Tank capacity, ft	7,4
Working width	up to 8/up to 18
Vehicle category	N3
Wheel base, mm	5 550
Permissible front/rear axle load, kg	6 300/10 500
Front track/ rear track, mm	1 990/1 855
Engine	ISUZU6H1-S four-stroke engine
displacement, cc	8 226
max. output, kW/horsepower	147/200 (2850 rpm)
max. torque, Nm	500 (1700 rpm)
Driving system/leading wheels	4x2 rear
Suspension	semi-elliptic leaf springs hydraulic telescopic double acting shock absorbers
Clutch	ISUZU dry single plate clutch
Transmission type	MLD6A
Steering system	hydraulic power steering
Brake system	pneumatic, dual-circuit, drum brakes
ABS system	no
Fuel type	diesel
Fuel tank capacity, liter	200



## Garbage Truck "ISUZU" FVR33G



### Technical Specifications

Dimensions (length/wldth/helght), mm	8100x2450x3250
Body cubic capacity, m <sup>3</sup>	10
Payload, kg	6250
Vehicle category	N3
Wheel base, mm	5 550
Permissible front/rear axle load, kg	6300/10500
Front track/ rear track, mm	1 990/1855
Engine	ISUZU6H1-S four-stroke engine
displacement, cc	8 226
max. output, kW/horsepower	147/200 (2850 rpm)
max. torque, Nm	500 (1700 rpm)
Driving system/leading wheels	4x2 rear
Suspension	semi-elliptic leaf springs hydraulic telescopic double acting shock absorbers
Clutch	ISUZU dry single plate clutch
Transmission type	MLD6A
Steering system	hydraulic power steering
Brake system	pneumatic, dual-circuit, drum brakes
ABS system	no
Fuel type	diesel
Fuel tank capacity, liter	200

## Garbage Truck "ISUZU" NPR82 (CNG)



### Technical Specifications

Dimensions (length/width/height), mm	7300x2240x2840
Gross vehicle weight, kg	7 500
Payload, kg	1470
Body cubic capacity, m <sup>3</sup>	7
Vehicle category	N2
Engine	ISUZU 4HV1 four-stroke with spark ignition
compression ratio	10:1
displacement, cc	4 570
max. output, kW/horsepower	96/130 (3200 rpm)
Driving system/leading wheels	4x2 rear
Wheel base, mm	3 845
Front track/ rear track (inside&outside), mm	1665/1395/1910
Suspension	semi-elliptic leaf springs, hydraulic telescopic double acting shock absorbers
Clutch	"ISUZU" dry single plate clutch with hydraulic booster
Transmission type	MY6S
Steering system	hydraulic power steering
Brake system	drum brakes dual-circuit with hydraulic booster
ABS system	yes
Fuel type	compressed natural gas
Number of cylinders	2
1 Cylinder capacity, liter	150
Total cylinder capacity, m <sup>3</sup>	60

## Cargo Tent Truck "ISUZU" NPR82 (CNG)

### Technical Specifications

Dimensions (length/width/height), mm	6795x2300x3000
Gross vehicle weight, kg	7 500
Payload, kg	3 550
Vehicle category	N2
Engine	ISUZU 4HV1 four-stroke with spark ignition
compression ratio	10:1
displacement, cc	4 570
max. output, kW/horsepower	96/130 (3200 rpm)
Driving system/leading wheels	4x2 rear
Wheel base, mm	3 845
Front track/ rear track (inside&outside), mm	1665/1395/1910
Suspension	semi-elliptic leaf springs hydraulic telescopic double acting shock absorbers
Clutch	ISUZU dry single plate clutch with hydraulic booster
Transmission type	MY6S
Steering system	hydraulic power steering
Brake system	drum brakes dual-circuit, with hydraulic booster
ABS system	yes
Fuel type	compressed natural gas
Number of cylinders	2
1 Cylinder capacity, liter	150
Total cylinder capacity, rh	60
Общая вместимость, м3	60



## Van "ISUZU" NPR82 (CNG)

### Technical Specifications

Dimensions (length/width/height), mm	6775x2235x3000
Gross vehicle weight, kg	7500
Payload, kg	3350
Vehicle category	N2
Engine	ISUZU 4HV1 four-stroke with spark ignition
compression ratio	10:1
displacement, cc	4750
max. output, kW/horsepower	96/130 (3200 rpm)
Driving system/leading wheels	4x2 rear
Wheel base, mm	3845
Front track/ rear track (inside/outside), mm	1665/1395/1910
Suspension	semi-elliptic leaf springs, hydraulic telescopic double acting shock absorbers
Clutch	ISUZU dry single plate clutch with hydraulic booster
Transmission type	MY6S
Steering system	hydraulic power steering
Brake system	drum brakes, dual-circuit, with hydraulic booster
ABS system	yes
Fuel type	compressed natural gas
Number of cylinders	2
1 Cylinder capacity, liter	150
Total cylinder capacity, m3	60



## «JV MAN Auto-Uzbekistan» LLC

“JV MAN Auto-Uzbekistan” LLC established in 2009, it is a successful and one of the priority projects of automotive industry of Uzbekistan. The main direction of the company is manufacturing, sale, export and after-sale service of commercial vehicles.



### Founders:

51% — SC Uzavtosanoat (Uzbekistan)  
49% — MAN Truck&Bus AG (Germany)

### Factory:

Production capacity — 4 000 units per year.

### Location:

2 Tashkentskaya str., Jambay dist., Samarkand, 140400,  
Republic of Uzbekistan, Main office: 30, Mirzo-Ulugbek str.,  
Tashkent city, 100007, Republic of Uzbekistan.

### Products:

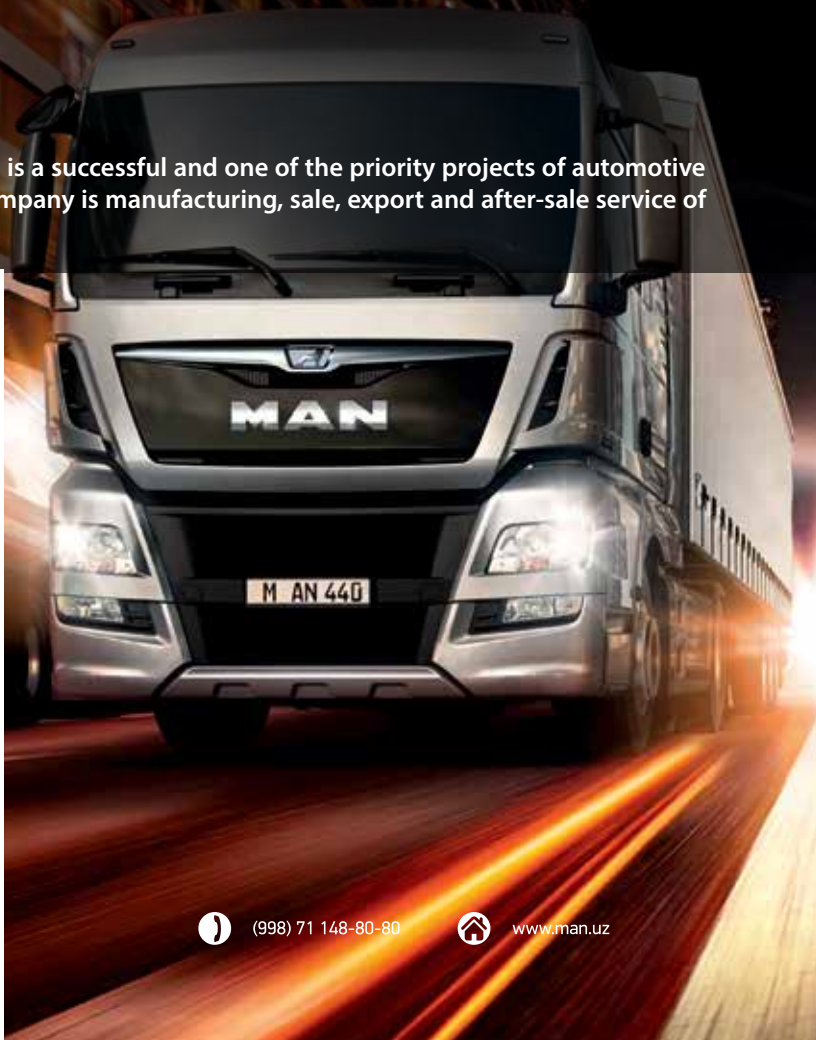
Truck tractors, dump trucks, commercial and special vehicles.

### Staff:

More than 300 employees.

### Quality certificates:

ISO 9001:2008  
ISO 9001:2015



(998) 71 148-80-80



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## Semitrailer tractor MAN TGS 33.480 6X4 BBS Maxiton ITM

### Technical Specifications

Engine	D2676LF02 4-cycle turbocharged diesel engine with aftercooler
Engine power	480 hp. /353kW at 1700+ 1900 rpm
Engine torque	2300MTPI at 1000 + 1400 rpm
Number of cylinders	6-cylinder In-line
Engine capacity	10,51
Emission standard	Euro 3
Fuel tank capacity	5901 on the right with, on the left side 2501
Vehicle curb weight	10150 kg
Permissible gross weight of vehicle	33 000 kg
Permissible load on the front axle	8000 kg
Permissible load on the rear axle	13 000 kg/13 000 kg
Permissible gross train (truck and trailer) weight	90 000 kg
Overall length	7095 mm
Overall width	2 500 mm
Overall height inc. of fairing	3365 mm
Engine clutch	Friction, dry single disk
Gearbox	ZF12AS 2331OD13-step, manual synchronized transmission



Front suspension	Parabolic springs with shock absorbers and stabilizer bars of transversal stability
Rear suspension	Balanced rear truck, parabolic springs, shock absorbers and stabilizer bars in both bridges.
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, double-circuit system divided into circuits along the axles, front and rear drum disc brake gears, ABS-anti-lock brake system
Fifth wheel coupling	Fifth wheel coupling JOST JSK 38 C, for the pin with diameter of 88,9 mm (3,5", height of 190 mm, built-in lubricating system Base plate of 40 mm, manufactured by JOST vertical load on the fifth wheel coupling — 23 000 kg

## Semitrailer tractor - MAN TGS 26.400 6X4 BLS ADR

### Technical Specifications

Engine	D2066LF49 4-cycle turbocharged diesel engine with aftercooler
Engine power	400hp. /294 kW at 1600 + 1900 rpm
Engine torque	1900 N m at 1000 + 1400 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	10,51
Emission standard	Euro 3
Fuel tank capacity	400 l
Vehicle curb weight	8850 kg
Permissible gross weight of vehicle	26 000 kg
Permissible load on the front axle	7 100 kg
Permissible load on the rear axle	9 500 kg / 9 500 kg
Permissible gross train (truck and trailer) weight	65 000 kg
Overall length	6 995 mm
Overall width	2 500 mm
Overall height inc. of fairing	3 225 mm
Engine clutch	Friction, dry single disk
Gearbox	ZF16S 2 23DD16-step, mechanical synchronized transmission



Front suspension	Parabolic springs with shock absorbers and stabilizer bars
Rear suspension	Rear pneumatic suspensions with shock absorbers and stabilizers on both axles, pneumatic cushioning system EGAS
Steering	With hydraulic booster ZF809B
Brake system	Pneumatic, double-circuit system divided into circuits along the axles, air dryer heated and braking power automatic adjustment, front and rear disc brake gears; ABS-anti-lock brake system
Fifth wheel coupling	Fifth wheel coupling JOST JSK 37 C, for the pin with diameter of 50,8 mm (2"), height of 185 mm, built-in lubricating system Base plate of 40 mm, manufactured by JOST. Vertical load on the fifth wheel coupling — 17 000 kg

## Semitrailer Tractor MAN TGS 26.400 6X4 BLS Medium

### Technical Specifications

Engine	D2066LF49 4-cylde turbocharged diesel engine with aftercooler
Engine power	400h.p. / 294 kW at 1600 ÷ 1900rpm
Engine torque	1900 N m at 1000 ÷ 1400 rpm
Number of cylinders	6-cylinder In-line
Engine capacity	10,5 l
Emissionstandand	Euro 3
Fuel tank capacity	590 l
Vehicle curb weight	9 000 kg
Permissible gross weight of vehicle	26 000 kg
Permissible load on the front axle	7 100 kg
Permissible load on the rear axle	9 500 kg / 9 500kg
Permissible gross train (truck and trailer) weight	65 000kg
Overall length	6 995 mm
Overall width	2500 mm
Overall height inc.of fairing	3 620 mm
Engine clutch	Friction, dry single disk
Gearbox	ZF16S 223DD16-step, mechanicalsynchronized transmission



Front suspension	Parabolic springs with shock absorbers and stabilizer bars of transversal stability
Rear suspension	Rear pneumatic suspensions with shock absorbers and stabilizers on both axles, pneumatic cushioning system EGAS
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, front and rear disc brake gears, ABS-ant-lock brake system
Fifth wheel coupling	Fifth wheel coupling JOST JSK37 C, under the pin with diameter of 50.8 mm (2*) height of 150 mm. Base plate — 40 mm, manufactured by JOST. Vertical load on the fifth wheel coupling 17 000 kg

## Tipper MAN TGS 41.400 8X4 BB

### Technical Specifications

Engine	D2066LF49,4-cylde turbocharged intercooled diesel engine with Inflatable air
Engine power	400h.p. / 294 kW at 1600 * 1900 rpm
Engine torque	1900 N m at 1000 + 1400 rpm
Number of cylinders	6-cylinder In-line
Engine capacity	10,5 l
Emissionstandand	Euro 3
Fuel tank capacity	300 l
Vehicle curb weight	15000 kg*2%
Vehicle load carrying capacity	28500 kg
Permissible gross weight of vehicle	44 000 kg
Permissible load on the front axle	9 000 kg/9 000 kg
Permissible load on the rear axle	13 000kg/13 000kg
Overall length	8980 mm
Overall width	2 550 mm
Overall height laden/unladen	3 360 mm/3 450 mm
Engine clutch	Friction, dry single disk
Gearbox	ZF 16 S 253 OD16-step, mechanicalsynchronized transmission



Front suspension	Parabolic springs with shock absorbers and stabilizer bars of transverse stability
Rear suspension	Balanced rear bogie with longitudinal jet thrusts, parabolic springs, shock absorbers and stabilizer bars in both bridges.
Steering	With hydraulic booster ZF6098
Brake system	Pneumatic, double-circuit divided to circuits along the axles, with air drier with heating and braking power automatic adjustment, brake gears of front and rear wheels of drum type, with ABS-ant-lock brake system

## Tipper MAN TGS40.400 6X4 BB

### Technical Specifications

Engine	D2066LF49, 4-cycle turbocharged Interceded diesel engine with inflatable air
Engine power	400 lip. / 294kWat 1800+1900 rpm
Engine torque	1900N-mat 1000 + 1400 rpm
Number of cylinders	6-cylinder In-line
Engine capacity	10,5 l
Emission standard	Euro 2
Fuel tank capacity	300 l
Vehicle curb weight	15 000 kg ± 2%
Vehicle load carrying capacity	25 000 kg
Permissible gross weight of vehicle	40 000 kg
Permissible load on the front axle	9 000 kg
Permissible load on the rear axle	16 000 kg / 18 000 kg
Overall length	8 260 mm
Overall width	2 550 mm
Overall height laden/unladen	3 470 mm/ 3 530 mm
Engine clutch	Friction, dry single disk
Gearbox	ZF16 S 253 OD16-step, mechanical synchronized transmission



Front suspension	Parabolic springs with shock absorbers and stabilizer bars of transverse stability
Rear suspension	Balanced high-lifted rear bogie with longitudinal jet thrusts, parabolic springs, shock absorbers and stabilizer bars in both bridges, v-type springs
Steering	With hydraulic booster ZFB098
Brake system	Pneumatic, double-circuit divided to circuits along the axles, with air drier with heating and braking power automatic adjustment, brake gears of front and rear wheels of drum type, with ABS-anti-lock brake system

## Tipper MAN TGS 33.360 6X4 BB

### Technical Specifications

Engine	D2066LF48, 4-cycle turbocharged Inter-cooled diesel engine with Inflatable air
Engine power	360 h.p./265 kWat 1400 ÷ 1900 rpm
Engine torque	1800 N m at 1000 ÷ 1400 rpm
Number of cylinders	6-cylinder In-line
Engine capacity	10,5 l
Emission standard	Euro 3
Fuel tank capacity	300 l
Vehicle curb weight	13000 kg± 2%
Vehicle load carrying capacity	20 000 kg
Permissible gross weight of vehicle	33 500 kg
Permissible load on the front axle	9 000 kg
Permissible load on the rear axle	13 000 kg/13 000 kg
Overall length	7 940 mm
Overall width	2 550 mm
Height to the upper end of the cab	3 270 mm
Engine clutch	Friction, dry single disk
Gearbox	ZF 16 S 253 OD16-speed manual synchronized transmission



Front suspension	Parabolic springs with shock absorbers and stabilizer bars of transverse stability
Rear suspension	Balanced rear bogie with longitudinal jet thrusts, parabolic springs, shock absorbers and stabilizer bars in both bridges
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, double-circuit divided to circuits along the axles, with air drier with heating and braking power automatic adjustment, brake gears of front and rear wheels of drum type, with ABS-anti-lock brake system

## Curtain van MAN TGS 26.400 6X4 BL

### Technical Specifications

Engine	D2D60LF49, 4-cylde diesel engine
Engine power	400 h.p./284 kWat 1600 ÷ 1900 rpm
Engine torque	1800Nm at 1000 ÷ 1400 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	10,5l
Emission standard	Euro 3
Fuel tank capacity	600 l
Vehicle curb weight	11 500 kg ± 2%
Vehicle load carrying capacity	16 000 kg
Permissible gross weight of vehicle	28 000 kg
Permissible load on the front axle	7500 kg
Permissible load on the rear axle	10 500 kg/10 500kg
Overall length	10 960 mm
Overall width	2 550 mm
Overall height laden/unladen	3 910 mm/3 960 mm
Clutch	Friction, dry single disk, draft type
Gearbox	ZF 16 S 223 DD 16-step mechanical synchronized



Front suspension	Parabolic springs with shock absorbers and stabilizer bars of transversal stability
Rear suspension	Rear pneumatic suspensions, shock absorbers and stabilizer bare on both bridges, pneumatic cushioning system ECAS
Steering	With hydraulic booster ZF8098
Brake system	Pneumatic, double-circuit, brake gears of drum type, with ABS-antHock brake system
Body length Inner/ exterior	8 450 mm/8 550 mm
Body width inner/ exterior	2 480 mm/ 2 550 mm
Body height inner	2600 mm
Quantity of euro-pellets accommodated	20 pcs
Body space	54 m <sup>3</sup>

## Transit Concrete Mixer MAN TGS 41.400 8X4 BB

### Technical Specifications

Engine	D2066LF06,4-cylde diesel engine
Engine power	400 h.p. 294 kW at 1600÷1900 rpm
Engine torque	1900 N m at 1000 ÷ 1400 rpm
Number of cylinders	6-cylinder In-line
Engine capacity	10,5 l
Emission standard	Euro 2
Fuel tank capacity	300 l
Vehicle curb weight	15 000 kg ±12%
Maximum weight of concrete transported	25 000 kg
Permissible gross weight of vehicle	41 000 kg
Permissible load on the front axle	7 500 kg /7 500 kg
Permissible load on the rear axle	13 000 kg/13 000 kg
Rated mixer volume	10 m <sup>3</sup>
Overall length	9 393 mm
Overall width	2 500 mm
Overall height	3 840 mm
Clutch	Friction, dry single disk
Gearbox	ZF 16 S 252 OD, 16-step, mechanical



Front suspension	Parabolic springs with shock absorber and stabilizer bars of transverse stability
Rear suspension	Balanced rear bogle, parabolic springs, shock absorbers and stabilizer bare on both bridges
Steering	With hydraulic boostef F8098
Brake system	Pneumatic, double-circuit, wilheidrierwith healing and braking power automatic adjustment, brake gears of all wheels of drum type, with ABS-anti-lock brake system



## Canvas-sided platform MAN TGM 13.280 4X4 BB

### Technical Specifications

Engine	D0836LFL41, 4-cycle diesel engine
Engine power	280 h.p. / 206 kW at 1850 ÷ 2400 rpm
Engine torque	1100 N m at 1200 ÷ 1750 rpm
Number of cylinders	6-cylinder In-line
Engine capacity	6.9 l
Emission standard	Euro 3
Fuel tank capacity	150 l
Vehicle load carrying capacity	7 100 kg
Vehicle curb weight	6 450 kg
Permissible gross weight of vehicle	13 500 kg
Permissible load on the front axle	6 300 kg
Permissible load on the rear axle	7 800 kg
Overall length	8120 mm
Overall width	2500 mm
Height to the upper end of the cab	3120 mm
Clutch	Friction, dry single disk, draft type
Gearbox	ZF 9S-1310 OD, 9-speed manual synchronized transmission



Front suspension	Parabolic springs with shock absorbers
Rear suspension	Parabolic springs
Steering	With hydraulic booster ZF 8090
Brake system	Pneumatic, double-circuit system, brake gears of all wheels of drum type with ABS - anti-lock brake system
Body length inner/ exterior	5 960 mm / 5 860 mm
Body width inner/ exterior	2 490 mm / 2 400 mm
Body height inner	2 000 mm
Loading height laden / unladen	1 310 mm / 1 420 mm
Body space	26 m <sup>3</sup>

## Transit concrete mixer MANTGS33.360 6X4 BB

### Technical Specifications

Engine	D2066LF48, 4-cycle diesel engine
Engine power	360 h.p./265 kW at 1400 ÷ 1900 rpm
Engine torque	1800 N m at 1000 ÷ 1409 rpm
Number of cylinders	6-cylinder In-line
Engine capacity	10.5 l
Emission standard	Euro 3
Fuel tank capacity	300 l
Vehicle curb weight	13 300 kg ± 2%
Maximum weight of concrete transported	19 200 kg
Permissible gross weight of vehicle	33 000 kg
Permissible load on the front axle	7 500 kg
Permissible load on the rear axle	13 000 kg / 13 000 kg
Rated mixer volume	8 m <sup>3</sup>
Overall length	8 870 mm
Overall width	2 550 mm
Overall height	3 770 mm
Clutch	Friction, dry single disk
Gearbox	ZF 16 S 252 OD, 18-step, mechanical



Front suspension	Parabolic spring with shock absorber and stabilizer bars of transverse stability
Rear suspension	Balanced rear bogie with longitudinal Jet thrusts, parabolic spring
Steering	With hydraulic booster ZF8098
Brake system	Pneumatic, double-circuit, with air drier with heating and braking power automatic adjustment brake gears of all wheels of drum type, with ABS-anti-lock brake system

## Concrete pump MAN TGS 41.400 8x4 BB

### Technical Specifications

Engine	D2066LF06, 4-cycle diesel engine
Engine power	400 h.p./294 kW at 1600 ÷ 1800 rpm
Engine torque	1900 N m at 1000 ÷ 1400 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	10,5 l
Emission standard	Euro 2
Fuel tank capacity	400 l
Vehicle curb weight	35 900 kg ± 2%
Vehicle load carrying capacity	12 000 kg
Overall length	10 960 mm
Overall width	2 550 mm
Clutch	Friction, dry single disk, draft type
Gearbox	ZF 16 S 223 OD 16-step mechanical



Front suspension	Parabolic springs with shock absorbers and stabilizer bars of transversal stability
Rear suspension	Rear pneumatic suspensions, shock absorbers and stabilizer bars on both bridges, pneumatic cushioning system ECAS
Steering	With hydraulic booster ZF8098
Brake system	Pneumatic, double-circuit, brake gears of drum type, with ABS-anti-lock brake system

## Garbage Compactor MAN TGS 26.3606X4 BL

### Technical Specifications

Engine	D2066LF06 4-cycle diesel engine
Engine power	360 h.p./265 kW at 1400 ÷ 1900 rpm
Engine torque	1800 N m at 1000 ÷ 1400 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	10,5 l
Emission standard	Euro 3
Fuel tank capacity	400 l
Vehicle curb weight	15 600 kg ± 2%
Maximum weight of concrete transported	10 400 kg
Permissible gross weight of vehicle	26 000 kg
Permissible load on the front axle	7 100 kg
Permissible load on the rear axle	9 500 kg/9 500 kg
Overall length	10 525 mm
Overall width	2 550 mm
Overall height laden / unladen	3 440 mm/ 3 430 mm
Clutch	Friction, dry single disk
Gearbox	ZF 16 S 252 00, 16-step, mechanical



Front suspension	Parabolic springs with shock absorber and stabilizer bars of transverse stability
Rear suspension	Pneumatic rear suspensions, shock absorbers and stabilizer bars on both bridges
Steering	With hydraulic booster ZF8098
Brake system	Pneumatic, double-circuit, with air drier with heating and braking power automatic adjustment, brake gears of all wheels of drum type, with ABS-anti-lock brake system

## Hook Lift Truck MAN TGS 41.360 8X4 BB

### Technical Specifications

Engine	D2066LF48, 4-cycle diesel engine
Engine power	360 h.p./265 kW at 1400 + 1900 rpm
Engine torque	1800 N m at 1000 + 1400 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	10,5 l
Emission standard	Euro 3
Fuel tank capacity	300 l
Length hook system	5 800 mm
The height of the capture hook	1 570 mm
Length of the loaded containers	5 950 + 6 800 mm
Curb weight of the vehicle without container	14 100 kg ± 2%
The lifting capacity of the hook system	24 000 kg
Permissible gross weight of vehicle	41 000 kg
Permissible load on the front axle	7 500 kg/7 500 kg
Permissible load on the rear axle	13 000 kg/13 000 kg
Overall length	8 670 mm
Overall width	2 550 mm
Overall height	4 000 mm
Clutch	Friction, dry single disk
Gearbox	ZF 18 S 222 OD, 16-step, mechanical, synchronized



Front suspension	Parabolic springs with shock absorbers and stabilizer bars of transversal stability
Rear suspension	Balanced rear bogie with longitudinal jet thrusts, parabolic springs
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, double-circuit, with air drier with heating and braking power automatic adjustment, brake gears of all wheels of drum type, with ABS-anti-lock brake system

## Sweeperman MAN TGM 18.240 4X2 BL

### Technical Specifications

Engine	D0836LFL40, 4-cycle diesel engine
Engine power	240 h.p./176 kW at 1850 ÷ 2400 rpm
Engine torque	925 N m at 1200 ÷ 1800 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	6,9 l
Emission standard	Euro 3
Fuel tank capacity	150 l
The water tank	1 500 l
Bunker capacity	7 m <sup>3</sup>
Load capacity without water	11 066 kg
Curb weight of car chassis	6 935 kg/8 435 kg
Permissible gross weight of vehicle	18 000 kg
Permissible load on the front axle	7 100 kg
Permissible load on the rear axle	11 500 kg
Overall length	7 600 kg
Overall width	2 500 kg
Overall height	3 120 kg
Clutch	Friction, dry single disk



Gearbox	ZF 9S 1110 DD, 9-step, mechanical, synchronized
Front suspension	Parabolic springs with shock absorbers and stabilizer bars of transversal stability
Rear suspension	Pneumatic suspension with shock absorbers and stabilizer bars of transversal stability
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, double-circuit, with air drier with heating and braking power automatic adjustment, brake gears of all wheels of drum type, with ABS-anti-lock brake system

## Water tanker MAN TGM 13.240 4X4 BB

### Technical Specifications

Engine	D0836LFL40,4-cycle diesel engine
Engine power	240 h.p. / 176 kW at 1850 + 2400 rpm
Engine torque	925 N m at 1200 + 1800 rpm
Number of cylinders	6-cylinder In-line
Engine capacity	6.9 l
Emission standard	Euro3
Fuel tank capacity	150 l
Vehicle curb weight	7500 kg ± 2%
Vehicle load carrying capacity	6 000 kg
Permissible gross weight of vehicle	13 500 kg
Permissible load on the front axle	6 300 kg
Permissible load on the rear axle	7 800 kg
Overall length	6 900 mm
Overall width	2 500 mm
Overall height	3 160 mm
Clutch	Friction, dry single disk
Gearbox	ZF-9S-1310 OD, 9-step, mechanical, synchronized



Front suspension	Parabolic springs with shock absorbers and stabilizer bars of transversal stability
Rear suspension	Parabolic springs with shock absorbers and stabilizer bars of transversal stability
Steering	With hydraulic booster ZF8098
Brake system	Pneumatic, double-circuit, brake gears of all wheels of drum type, with ABS-anti-lock brake system
Tanker and equipment characteristics	
Tank capacity	6 000 l
Pump capacity	550 l/min
Rilling time, no more	26 min
Tanker discharging time via pump/gravity flow	12 min/25 min

## Rescue vehicle MAN TGM 13.240 4X4 BB

### Technical Specifications

Engine	D0836LFL40, 4-cycle diesel engine
Engine power	240 h.p. 1176 kW at 1850 ÷ 2400 rpm
Engine torque	925 N m at 1200 ÷ 1800 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	6.9 l
Emission standard	Euro 3
Fuel tank capacity	150 l
Vehicle curb weight	10 700 kg 12%
Vehicle load carrying capacity	2800 kg
Permissible gross weight of vehicle	13 500 kg
Permissible load on the front axle	8 300 kg
Permissible load on the rear axle	7 800 kg
Overall length	7 750 mm
Overall width	2 500 mm
Overall height	3 750 mm
Clutch	Friction, dry single disk
Gearbox	ZF-9S-1310 OD, 9-step, mechanical, synchronized



Front suspension	Parabolic springs with shock absorbers and stabilizer bars of transversal stability
Rear suspension	Parabolic springs with shock absorbers and stabilizer bars of transversal stability
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, double-circuit, brake gears of all wheels of drum type, with ABS-anti-lock brake system
Length of body superstructure	5460 mm
Internal height of a body	2 110 mm
Landing height of a body	1 350 mm

## Refuel Tanktruck TGM 13.240 4x4 BB

### Technical Specifications

Engine	D0836LFL40, 4-cycle diesel engine
Engine power	240 h.p. / 176 kW at 1850 ÷ 2400 rpm
Engine torque	925 N m at 1200 ÷ 1800 rpm
Number of cylinders	6-cylinder In-line
Engine capacity	6.9 l
Emission standard	Euro 3
Fuel tank capacity	200 l
Tank volume	4 m <sup>3</sup>
Time of filling of the tank the pump	18 min.
Time of draining of the tank the pump	15 min.
Permissible gross weight of vehicle	13 000 kg
Permissible load on the front axle	6 300 kg
Permissible load on the rear axle	7 800 kg
Overall length	7 500 mm
Overall width	2 500 mm



Overall height	3 170 mm
Clutch	Friction, dry single disk
Gearbox	ZF 9S 1110 DD, 9-step, mechanical, synchronized
Front suspension	Parabolic springs with stabilizer bar
Rear suspension	Parabolic springs with stabilizer bar
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, double-circuit, braking mechanism all wheels-drum type, with ABS - anti-lock brake system

## Aviation refuel tank truck MAN TGS 33.400 6x4 BB

### Technical Specifications

Engine	D2066LFL48, 4-cycle diesel engine
Engine power	240 h.p. / 178 kW at 1850 * 2400 rpm
Engine torque	925 N m at 1200 + 1800 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	10.5 l
Emission standard	Euro 3
Fuel tank capacity	400 l
Tank volume	22 m <sup>3</sup>
Permissible gross weight of vehicle	33 000 kg
Permissible load on the front axle	7 500 kg
Permissible load on the rear axle	13 000 kg / 13 000 kg
Overall length	9 900 mm
Overall width	2 500 mm
Overall height	3 225 mm
Clutch	Friction, dry single disk
Gearbox	ZF 931110 DD, 9-step, mechanical, synchronized



Front suspension	Parabolic springs
Rear suspension	Balanced rear bogie, parabolic springs
Steering	With hydraulic booster ZF8098
Brake system	Pneumatic, with shock absorber and stabilizer bar of transverse stability

## Airfield Sweeper TGS 33.360 6X4 BB

### Technical Specifications

Engine	D2066LFL48, 4-cycle diesel engine
Engine power	360 h.p./ 265 kW at 1400 + 1900 rpm
Engine torque	1800 N m at 1000 + 1400 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	10,5 l
Emission standart	Euro 3
Fuel tank capacity	300 l
Vehicle curb weight	9170 kg
Vehicle load carrying capacity	20 000 kg
Permissible gross weight of vehicle	33 000 kg
Permissible load on the front axia	7 500 kg
Permissible load on lthe rear axle	13 000 kg/13 000 kg
Overall length	7490 mm
Overall width	2 600 mm
Overall height	3 225 mm
Clutch	Friction, dry single disk
Gearbox	ZF 16 S252 OD, 16-step, mechanical, synchronized



Front suspension	Parabolic springs with shock absorbers and stabilizer bars of transversal stability
Rear suspension	Parabolic springs, balanced rear bogle, with shock absorbers and stabilizer bars on both bridges.
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, double-circuit system divided into circuits along the axles, with air drier with heating and braking power automatic adiistment, brake gears of front and rear wheels of drum type, with ABS-anti-lock brake system

## Ladder Truck MAN TGS 26.400 6x4 BL

### Technical Specifications

Engine	D2066LFL06, 4-cycle diesel engine
Engine power	400 h.p. /294 kW at 1800 ÷ 1800 rpm
Engine torque	1900 N-m at 1000 ÷ 1400 rpm
Number of cylinders	6-cylinder In-line
Engine capacity	6,9 l
Emissionstandard	Euro 3
Fuel tank capacity	400 l
Maximum working height of raising of an arrow	52 m
Ladder loading capacity at lts use as the crane	2 000 kg
Loading capacity of a removable cradle and/or elevator not less	200 kg
Permissible gross weight of vehicle	24 500 kg ± 2%
Permissible load on the front axle	7 500 kg
Permissible load on the rear axle	11 500 kg/ 11 500 kg
Overall length	12 000 mm
Overall width	2 550 mm
Overall height	3 900 mm
Clutch	MFZ 430 friction, dry single disk



Gearbox	ZF 16 S 222 DD, 16-step, mechanical, synchronized
Front suspension	Parabolic springs
Rear suspension	Air Suspension
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, double-circuit with air drier with heating and braking power automatic adjustment, brake gears of front and rear wheels of drum type.

## Fire Truck MAN TGM 13.240 4x4 BB

### Technical Specifications

Engine	D0836LFL40, 4-cycle diesel engine
Engine power	240 h.p. /176 kW at 1950 ÷ 2400 rpm
Engine torque	925 N m at 1200 ÷ 1800 rpm
Number of cylinders	6-cylinder In-line
Engine capacity	6.9 l
Emission standard	Euro 3
Fuel tank capacity	150 l
Vehicle load carrying capacity	13 500 kg
Permissible load on the front axle	6 300 kg
Permissible load on the rear axle	7 800 kg
Overall length	8 000 mm
Overall width	2500 mm
Overall height	3 380 mm
Clutch	Friction, dry single disk
Gearbox	ZF 9S 1310 OD, 9-step, mechanical, synchronized



Front suspension	Parabolic springs, with shock absorber and stabilizer bar of transverse stability
Rear suspension	Parabolic springs, with shock absorber and stabilizer bar of transverse stability
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, double-circuit, brake gears of all wheels of drum type, with ABS anti-lock brake system
Characteristic	
Capacity of a water tank	4 000 l
Tank for frother	400 l
Pump capacity	40 l/sec.

## Crew Bus MAN TGM 13.240 4x4 BB

### Technical Specifications

Engine	D0838LFL40, 4-cycle diesel engine
Engine power	240 h.p. / 176 kW at 1850 2400 rpm
Engine torque	925 N m at 1200 1800 rpm
Number of cylinders	6-cylinder in-line
Engine capacity	6.9 l
Emission standard	Euro3
Fuel tank capacity	150 l
Vehicle curb weight	9 000 kg ± 2%
Vehicle load carrying capacity	4 000 kg
Permissible gross weight of vehicle	13 500 kg
Permissible load on the front axle	6 300 kg
Permissible load on the rear axle	7 800 kg
Overall length	8 050 mm
Overall width	2 500 mm
Overall height	3 160 mm
Clutch	Friction, dry single disk



Gearbox	ZF 9S 1310 OD, 9-step, mechanical, synchronized
Front suspension	Parabolic springs, with shock absorber and stabilizer bar of transverse stability
Rear suspension	Parabolic springs, with shock absorber and stabilizer bar of transverse stability
Steering	With hydraulic booster ZF 8098
Brake system	Pneumatic, double-circuit, brake gears of all wheels of drum type, with ABS anti-lock brake system
Length of the body	5 500 mm
Internal height of a body	1 975 mm
Length of body superstructure	1 350 mm

## City bus Man A22 CNG

Engine	Natural gas engine (EEV) E2876 LUH03
Engine power at crankshaft speed	310 h.p. / 228 kW at 2000 rpm
Engine torque at crankshaft speed	1250 N m at 1000- 1700 rpm
Engine capacity	12 816 cm <sup>3</sup>
Emission standard	Euro 5
Supply systems	4 gas cylinders of 294 l total capacity of 1176 l
Permissible gross weight	19 500 kg
Permissible load on the front axle	7245 kg
Permissible load on the rear axle	11 500 kg
Overall length	12 000 mm
Overall width	2 550 mm
Overall height	3 410 mm
Clutch	ZF 6 AP 1400 EcoLife automatic gearbox with integrated retarder



Front suspension / Rear suspension	Electronically controlled chassis regulation via ECAS air suspension system with travel sensor Front axle — 1, rear axle — 2	
Steering	Left hand drive vehicle, with hydraulic booster	
Brake system	Parking brake and emergency braking system	
City bus specification		
Passenger capacity	90	
The number of seats	30	
Standing passenger capacity	60	







## UZAUTO TRAILER

**Founders:**

100% — SC Uzavtosanoat (Uzbekistan)

**Factory:**

Production capacity - 3 000 единиц в год.

**Location:**

Uzbekistan, Tashkent, Mirzo-Ulugbek distr., 30.

**Products:**

Dump-body trucks, on-board, isothermal and curtain sided vehicle, awing semitrailers, refrigerated and isothermal semitrailers.

**Staff:**

580 employees.

**Quality certificates:**

UNIENISO 9001:2008,  
O'zDSt ISO 9001:2009

(998) 71 202-00-06

www.UZAUTOTRAILER.uz

## Mounted and Trailed Equipment



Tipping Bodies «HALF-PIPE»



Tipping Bodies «CLASSIC»



Refrigerator



Tipper Trailer M316



Tipper Semitrailer



High Pressure Press



Tilted Semitrailer M3



Tractor Trailer



Isothermal Semitrailer



High Pressure Press

## JSC «GM POWERTRAIN UZBEKISTAN»

### Founders:

52% - SC Uzavtosanoat (Uzbekistan)  
52% - General Motors (USA)

### Factory:

Production capacity: 250000 engines per year.

### Location:

Building N 21, Istiqlol str., Khanabad village, Zangiata district, Tashkent region, Republic of Uzbekistan, 10001.

### Products:

B-DOHC 1.2 L and 1.5 L engines.

### Staff:

1200 employees.

(998) 71 280-65-39

[www.GMPT.uz](http://www.GMPT.uz)

## Engines



Engine 1.5 L LM9 (Gasoline and Gas) — Installed (with Gas-balloon equipment)



Engine L2C 1.5 — Installed to Cobalt RA, Nexia3 and Genra



Engine LKY 1.2 — Installed to Spark MT



Engine LL0 1.2 — Installed to Spark / R2 AT

## UZ-TONG HEUNG CO.

**Founders:**

50% — SC Uzavtosanoat (Uzbekistan);  
50% — «KM&1 Co Ltd.» (South Korea).

**Factory:**

Production capacity: 300 000 car seats per year.

**Location:**

4a, Industrialnaya st., Andijan city, Andijan region, Republic of Uzbekistan, 11011.

**Products:**

Automobile seats: Damas, Matiz, Lacetti, Cobalt, Nexia R3, Spark.

**Staff:**

More than 965 employees.

**Quality certificates:**

ISO 14001-2004, OHSAS 18001:2007, ISO/TS 16949:2009,  
ISO 9001:2008 (O'zDSt ISO 9001:2009)

(998) 74 226-89-06

[www.UZTH.uz](http://www.UZTH.uz)

### Car seats



Car seats model for COBALT (DOM CRS)



Car seats model for NEXIA R3 (LS-LT)



Car seats model for SPARK (EXP) BDF



Car seats model for COBALT / R4



Car seats model for Gentra CDX



Car seats model for SPARK / R2



Car seats model for Gentra



## UZ-KORAM CO.

### Founders:

100% — SC Uzavtosanoat (Uzbekistan)

### Factory:

Production capacity: 300 000 sets per year.

### Location:

1, Novokoicevaya st., Andijan city,  
Andijan region, Republic of Uzbekistan, 170111.

### Products:

Fasciae, toolbars, door trims, side mirror covers, wheel caps etc

### Staff:

856 employees.

### Quality certificates:

ISO 9001:2008 ISO 16001:2004 OHSAS 18001:2007  
ISO/TS 16949:2009

(998) 74 296-00-36, (998) 74 296-00-81  
[www.UZKORAM.uz](http://www.UZKORAM.uz)

## Fascias



Front Fascia Cobalt / R4



Front Fascia Spark M-300



Front Fascia nexia -N150



Rear Fascia Spark M-300



Front Fascia Lacetti J-200



Front Fascia Gentra J200 MCE



Rear Fascia Lacetti J-200



Rear Fascia Gentra J200 MCE

## UZ DONG YANG CO.

### Founders:

40% — SC Uzavtosanoat (Uzbekistan)  
60% — Dong Kwan Tech (South Korea)

### Factory:

Production capacity — 250 000 sets per year.

### Location:

4a, Industrialnaya st., Andijan city, Andijan region, Republic of Uzbekistan, 11011.

### Products:

Interior parts.

### Staff:

More than 945 employees.

### Quality certificates:

ISO 9001-2008 ISO 1Д001-200Д ISO/TS 169Д9:2002 OHSAS 18001:2007

(998) 71 232-34-34

www.UZDY.uz

## Interior Details



Panel ASM-HDLNG TR for Nexia



PAD ASM for Spark/R2



Pad ASM for Cobalt / R4



Console FSM-F/FLR for Genra



## UZ DONG WON

### Founders:

50% — SC Uzavtosanoat (Uzbekistan)  
26% — UzAuto Korea (South Korea)  
24% — Dong Wong Metal Co. Ltd (South Korea)

### Factory:

Production capacity: 260 000 sets per year.

### Location:

57, Ferganskaya St., Asaka city, Andijan region, Republic of Uzbekistan, 170108.

### Products:

Exhaust systems, door impact beams, IP tie bar, stamping parts.

### Staff:

More than 500 employees.

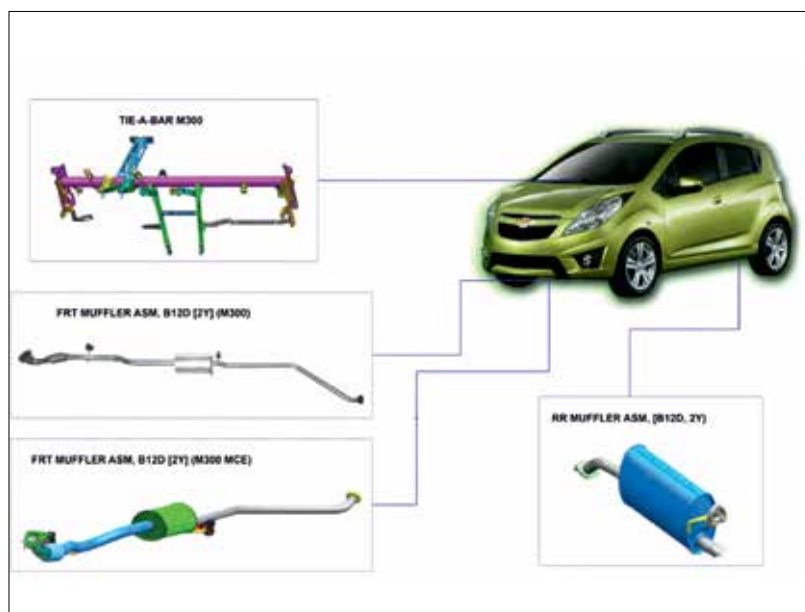
### Quality certificates:

ISO 9001:2009 ISO/TS 16949:2011

(998) 71 268-34-16

www.UZDWN.uz

## Mufflers / Exhaust Systems



## AVTOCOMPONENT

### Founders:

100% — SC Uzavtosanoat (Uzbekistan)

### Factory:

Production capacity:  
Housing mufflers — 200 000 per year  
Exhaust systems — 120 000 per year  
Pipes — 2 500 000 meters per year.

### Location:

1, Vokzalnaya st., Asaka district, Andijan region, Republic of Uzbekistan.

### Products:

Housing mufflers, exhaust systems, pipes.

### Staff:

More than 240 employees.

### Quality certificates:

ISO TS 16949, ISO 9001:2008

(988) 7Д 233-13-36

www.AUTOCOMPONENT.uz



Front muffler for Gentra



Rear muffler for Gentra



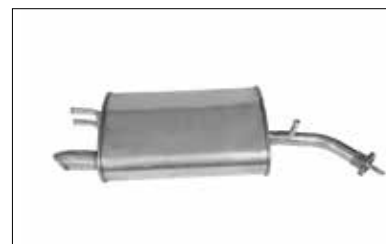
Exhaust system for Cobalt



Muffler for Damas



Muffler for Nexia2



Muffler for Spark

## UZ KOJE

### Founders:

50% — SC Uzavtosanoat (Uzbekistan)  
 43,56% — «Erae cs limited» (South Korea)  
 6,44% — «Daekyeung Elektrik System» Co. Ltd (South Korea)

### Factory:

Production capacity — 270 000 sets per year.

### Location:

100, Ulugbek st., Khanabad city, Andijan region, Republic of Uzbekistan, 711315.

### Products:

Wiring harnesses for vehicles and tractors.

### Staff:

More than 1320 employees.

### Quality certificates:

ISO 9001:2008 ISO/TS 16949:2009 BISO3 ISO 50001

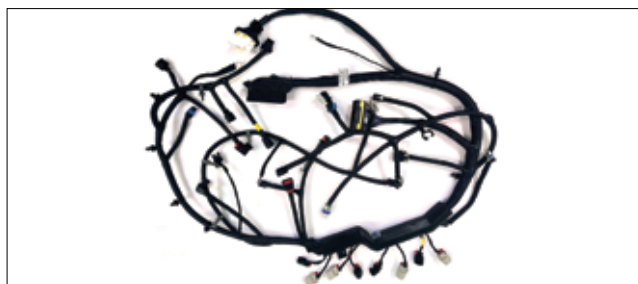
(998) 74 734-30-80

www.UZKOJE.uz

## Automotive Wire Harnesses



Cobalt — Harness ASM-Body WRG



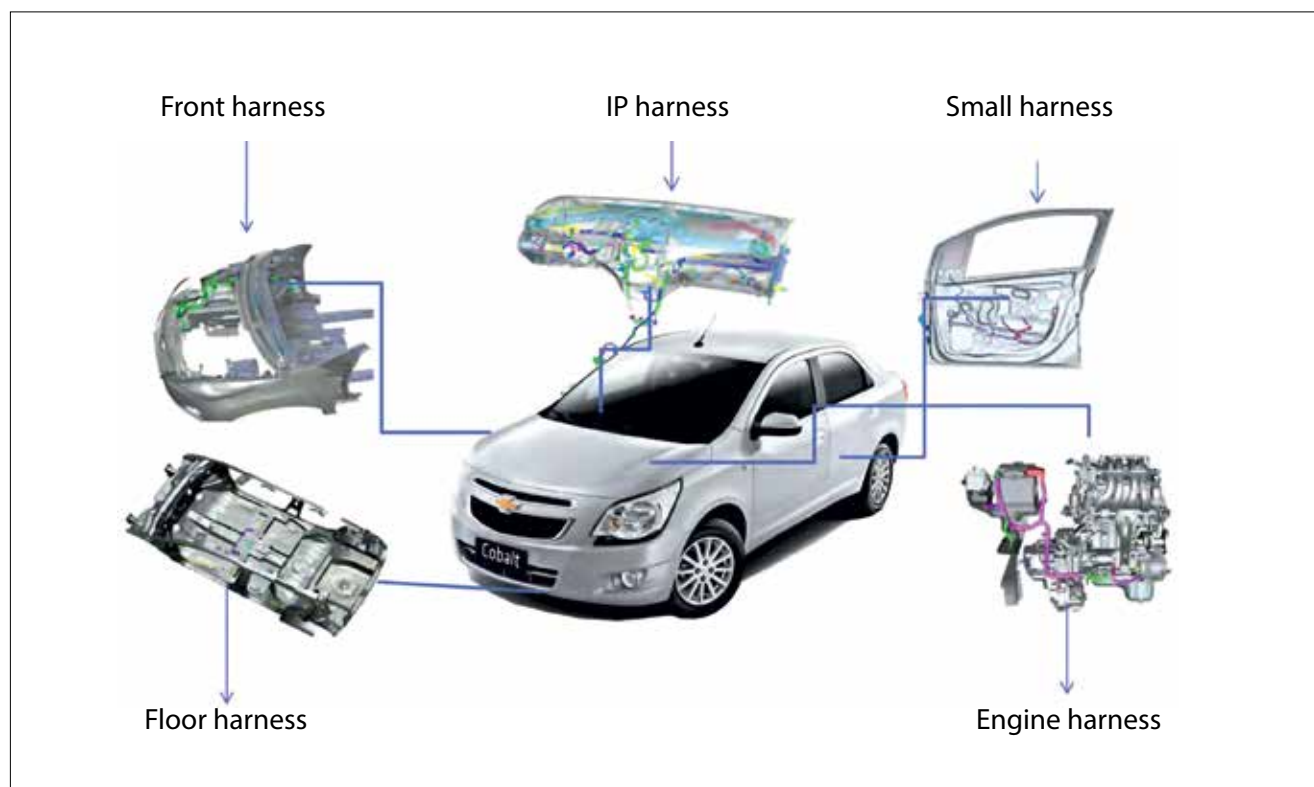
Nexia R3 — Harness ASM-ENG WRG



Lacetti — Wiring Harness-Airbag



Spark — Harness ASM-Body WRG



## Djizak Accumulator plant

### Founders:

84,78% — SC Uzavtosanoat (Uzbekistan);  
12,09% — SJSCB Asaka;  
2,71% — JSC «GM Uzbekistan»;  
0,42% — JSC «Tashkent color metal».

### Factory:

Production capacity — 1 000 000 batteries.

### Location:

Industrial zone A, Djizak city, Republic of Uzbekistan, 130112.

### Products:

Lead-acid accumulator starting batteries and recycling of secondary lead.

### Staff:

More than 550 employees.

### Quality certificates:

ISO 9001:2000; ISO/TS 16949:2009; ISO/IEC 17025:2007

(998) 72 221 -02-42

www.DAZ.uz

## Accumulator Batteries



SMF-35



SMF-40 LT



DIN-55



SMF-50 LT



SMF-55



MF-55



DIN-62



DIN-66 (75)



DIN-90



DIN - 132 (140)



MF-62



MF-66 (75)



MF-90



DIN-190



## UZ SUNG WOO

**Founders:**

50% — SC Uzavtosanoat (Uzbekistan)  
 50% — «Sungwoo HiTech» (South Korea)

**Factory:**

Production capacity — 120 000 products per year.

**Location:**

68, Airport st., Fergana city, Fergana region, Republic of Uzbekistan, 150118.

**Products:**

Welding and stamping parts for vehicles.

**Staff:**

More than 540 employees.

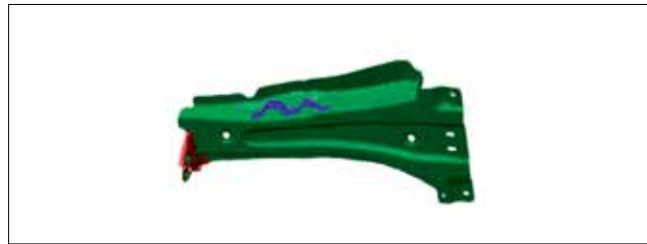
**Quality certificates:**

ISO/TS 16949:2011

(998) 95 404-17-90

www.UZSUNGWOO.uz

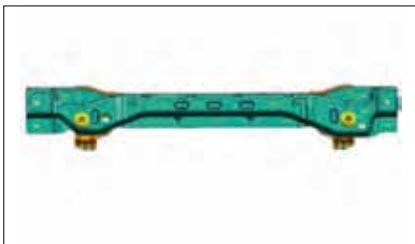
### Stamping-Welding Parts



Rail bolster



Amplifier body panels



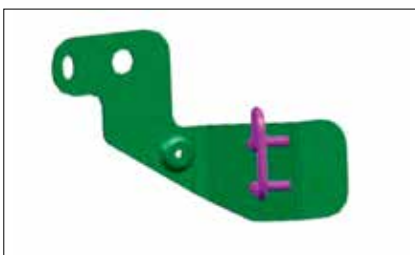
Beam side member



Amplifier glass cleaner



Slide



Bracket



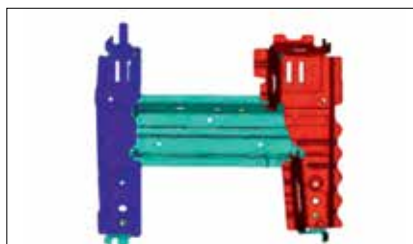
Bolster



Central rack panel



Front top panel



Central panel



Lower bar assembly

## AVTOOYNA

### Founders:

100% — SC Uzavtosanoat (Uzbekistan)

### Factory:

Production capacity — 350 000 products per year.

### Location:

1a, Istiqlol St., Fergana city, Fergana region, Republic of Uzbekistan.

### Products:

Laminated and tempered autoglasses.

### Staff:

More than 794 employees.

### Quality certificates:

ISO 9001:2008 ISO/TS 16949:2009

(998) 73 243-38-86

[www.AVTOOYNA.uz](http://www.AVTOOYNA.uz)

## Autoglasses



Nexia Windshield GL



Damas DLX Windshield



Nexia R3 Windshield GL



Nexia FRT SD Glass



Nexia FRT SD Glass GL



Nexia FRT SD Glass GL



Lacetti Windshield



Cobalt Windshield



Spark Windshield



Lacetti FRT SD Glass



Cobalt FRT SD Glass



Spark FRT SD Glass LT

## UZ CHASYS

### Founders:

70% — SC Uzavtosanoat (Uzbekistan)  
30% — «AMS Co., Ltd» (South Korea)

### Factory:

Production capacity — 270 000 sets per year.

### Location:

50, Quruvchilar St., Namangan city, Namangan region,  
Republic of Uzbekistan, 160116.

### Products:

Lighting Systems.

### Staff:

More than 419 employees.

### Quality certificates:

ISO 9001:2008 ISO/TS 16949:2009

(998) 69 228-72-19

[www.UZCHASYS.uz](http://www.UZCHASYS.uz)

## Lighting Systems



Head lamp, LH Cobalt 4NB



Central high mounted stop lamp (CHMSL) Nexia N-150



Front fog lamp Gentra J-200



Tail lamp Nexia N-150



Head lamp, LH, Spark M-300



Head lamp, RH Spark M-300



Head lamp, RH Cobalt 4NB



Tail lamp Cobalt 4NB



Head lamp Nexia N-150



Central high mounted stop Lamp (CHMSL) Cobalt 4



Licence plate lamp (LPL) Nexia N-150

## AVTOSANOAT CEPLA

### Founders:

50% — SC Uzavtosoat (Uzbekistan)  
50% — «CEPLA Co., Ltd» (Korea)

### Factory:

Production capacity — 12 000 tons per year.

### Location:

61, Elbek st, Tashkent city, Republic of Uzbekistan.

### Products:

Composite materials based on polypropylene, polyethylene, acrylonitrile butadiene styrene (ABS), polyamide and other polymer materials.

### Staff:

More than 580 employees.

(998) 95 193-44-09; (998) 90 906-56-80

[www.AVTOCEPLA.uz](http://www.AVTOCEPLA.uz)



## UZERAECABLE

### Founders:

50% — SC Uzavtosoat (Uzbekistan)  
50% — «Erae cs limited» (South Korea)

### Factory:

Production capacity:  
Automobile cables — 130 000 km per year  
Battery tourniquet — 120 000 sets per year;

### Location:

C3 sector, FIEZ Navoi, Karmana district, Navoi region, Republic of Uzbekistan, 210100.

### Products:

Automotive wires (AV, AVS, AVSF, AVSS, FLK, FLKK, FLY, FLRV-A, FLRY-B) Battery harnesses.

### Staff:

100 employees.

### Quality certificates:

ISO 9001:2009

(998) 79 220-07-00

[www.UZERAECABLE.uz](http://www.UZERAECABLE.uz)

## Polypropylene Compound



GMW 15674



GMW 15549 (PP+EPDM-TD20)



EDS-M 4621-21 (PP+EPDM)



GMW 15548 (PP+EPDM-TD15)

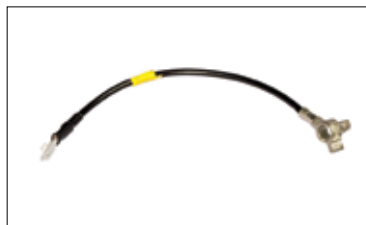
## Automotive Wires



AVSS-2,00 — orange



Enamelled wire PETD 2-200



Battery Cable ASM-BAT



Enamelled wires PUGNP-2x1,50-white



Enamelled wires



Battery Cable Harness  
ASM-BAT T250

## UZ ERAE CLIMATE CONTROL

**Founders:**

60% — SC Uzavtosanoat (Uzbekistan)  
 40% — «Erae cs limited» (South Korea)

**Factory:**

Production capacity — 500 000 sets per year.

**Location:**

73, Babur avenue, Andijan city, Andijan region, Republic of Uzbekistan, 170017.

**Products:**

Automotive heat exchangers, radiators, conditioning systems.

**Staff:**

More than 200 employees.

**Quality certificates:**

ISO 9001:2008

(998) 74 296-00-49

[www.UZCC.uz](http://www.UZCC.uz)

### Conditioning Systems



ECF (200 W) 94511188



ECF (DS527)95018149



ECF (200 W) - 95942353



Heater core - 95018021



Radiator ASIV& ECF-  
42559484



Heater core - 95193258



Radiator ASM AT -  
95460094



Condenser ASM -  
96943762



Condenser ASM -  
94511190



Radiator ASM -  
KTY96180782



Condenser ASM -  
96844907



Condenser ASM -  
95395383



Radiator ASM MN  
96477777



Radiator ASM AT -  
95460093



Radiator ASM AT -  
94511189



Radiator ASM MT -  
94513436



## UZ ERAE ALTERNATOR

### Founders:

50% — SC Uzavtosanoat (Uzbekistan)  
50% — «Erae CS limited» (South Korea)

### Factory:

Production capacity:  
Automobile alternators — 360 000 per year;  
Automobile coprocessors — 170 000 per year.

### Location:

C3 sector, FIEZ Navoi, Karmana district, Navoi region, Republic of Uzbekistan, 210609.

### Products:

Automotive alternators and compressors.

### Staff:

More than 60 employees.

### Quality certificates:

ISO/TS 16949:2009; ISO 9001:2008;  
UNI EN ISO 9001:2008;  
O'zDSt ISO 9001:2009

(998) 79 220-00-90

www.UEA.uz

## Automobile generators



Damas 94582688



GSVEM-MT



RAVON R2 (Spark) 96843503



Nexia 96252547



Gentra-MCE-95076719



GSVEM-AT



J-200 95908354



M-150(0.8) 95903436



M-150(1 L) 95903437



M-300 96073851



N-150 96252166

## UZ MINDA

### Founders:

50% — SC Uzavtosanoat (Uzbekistan),  
50% — «Spark Minda Group» (South Korea).

### Factory:

Production capacity — 250 000 sets per year.

### Location:

C3 sector, FIEZ Navoi, Karmana district, Navoi region, Republic of Uzbekistan, 210600.

### Products:

Clocks, speedometer, lock sets, main actuator, relay actuator, speed sensors, chime bells, outside door handles.

### Staff:

More than 100 employees.

### Quality certificates:

ISO/TS 16949:209 ISO 9001:2008

O'ZDSTISO 9001:2009

(0 436) 220-01-03

www.UZMINDA.uz

## Automotive Components



Nexia(N-150) speedometer



Lacetti (J-200) speedometer



Nexia (N-150) clock



Micro relay universal



Cobalt GSVEM door handle



Nexia (N-150) actuator



Nexia (N-150) chime bell



Nexia(N-150) door handle

## UZ-HANWOO

### Founders:

50% — SC Uzavtosanoat (Uzbekistan)

50% — Hanwoo Global Co., Ltd. (South Korea)

### Factory:

Production capacity 320 000 sets per year.

### Location:

73, Babur avenue, Andijan city, Andijan region, Republic of Uzbekistan, 170011.

### Products:

Noise isolation parts of automobile.

### Staff:

More than 170 employees.

### Quality certificates:

ISO 9001:2008

ISO/TS 16949:2009

O'zDSt ISO 50001:2011

(998) 74 228-07-26

[www.UZHW.uz](http://www.UZHW.uz)

## Sound Insulation Parts



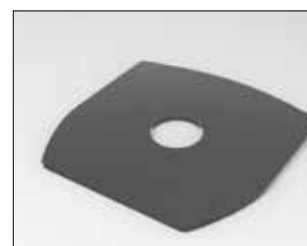
Insulator dash panel,  
inner



Insulator dash panel,  
outer



Insulator floor panel,  
rear seat



Insulator r-floor panel,  
rear



Insulator hood



Heat and noise insulator  
hood



Insulator floor panel,  
front



Insulator floor panel,  
rear



Insulator fender



Insulator b-pillar, lower



Insulator engine



EVA based noise insula-  
tion material





## UZA UTO-A USTEM

**Founders:**

50% — SC Uzavtosanoat (Uzbekistan)  
50% — «Austern Co., Ltd.» (South Korea)

**Factory:**

Production capacity:  
Chassis components — 123,000 sets per year;  
Steel wheels — 1000000 units per year.

**Location:**

73, Babur avenue, Andijan city, Andijan region, Republic of Uzbekistan, 170017.

**Products:**

Chassis components and steel wheels.

**Staff:**

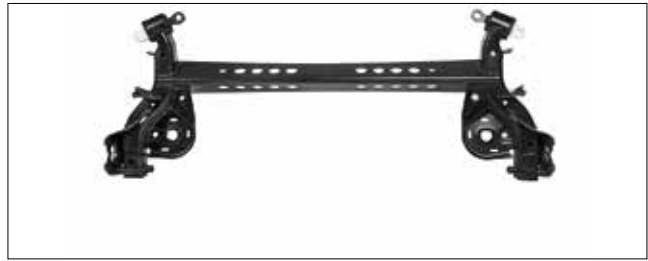
More than 270 employees.

**Quality certificates:**

ISO 9001:2008

(998) 74 228-07-01

[www.UZAUTOAUSTEM.uz](http://www.UZAUTOAUSTEM.uz)



Cobalt/ R4 rear axle



Nexia R3 (T250) control arm



Nexia R3 (T250) front cradle

## Steel wheels



Steel wheels for Nexia R3



Steel wheels for Spark/ R2



Steel wheels for Spark/ R2



Steel wheels for Chevrolet Cobalt (R4)



Steel wheels for Chevrolet Gentra (Lacetti)



Steel wheels for Nexia R3



## UZ SAEMYUNG CO.

### Founders:

38,5% — SC Uzavtosanoat (Uzbekistan)

50% — Erae cs limited (South Korea)

11,5% — Andijanmash Ltd

### Factory:

Production capacity — 250 000 sets per year.

### Location:

5, Say st., Andijan city, Andijan region, Republic of Uzbekistan, 170105.

### Products:

Fuel tanks and body steel panels.

### Staff:

More than 1151 employees

### Quality certificates:

ISO/TS 16949:2009 ISO 9001:2008

(998) 74 222-40-68

[www.UZSMG.uz](http://www.UZSMG.uz)

## Metal Stamped Parts



Panel ASM — DASH of Spark



Tank ASM-fuel of Cobalt



Fuel tank of Nexia



Fuel tank of Gentra



Dash panel of Nexia



## KWANGJIN AUTOSYSTEMS

**Founders:**

50% — SC Uzavtosanoat (Uzbekistan)

50% — «Kwangjin Machine Co., Ltd.» (South Korea)

**Factory:**

250.000 sets per yea

**Location:**

100016, Tashkent, Yashnabad distr., Elbek str., 61 bldg., 139 block.

**Products:**

Window raisers.

**Staff:**

More than 74 employees.

**Quality certificates:**

O'zDstISO/TS 16949:2011

(998) 71 294-78-02

www.KJAS.uz

### Kwangjin Autosystems



Regulator ASM-Front Power, LH for Nexia (N150)



Regulator ASM-Rear Power, LH for Nexia (N150)



Regulator ASM-Rear Power, LH for Spark (M300)



Regulator ASM-Front power, LH for Spark (M300)



Regulator ASM-Front power, LH for COBALT (GSV-EM)



Regulator ASM-Rear Power, LH for COBALT (GSV-EM)



## AVTOSANOAT-LANDI RENZO

### Founders:

50% — SC«Uzavtosanoat» (Uzbekistan)

50% — «Landi Renzo S.p.a.» (Italy)

### Location:

100016, Tashkent, Mirzo-Ulugbek distr., Mirzo-Ulugbek street, 30.

### Products:

LPG and natural gas systems for cars.

### Staff:

20 employees.

(998)90 615-01-77

## LPG and Natural Gas Systems for Cars



## TOSHAFUS

### Founders:

50% — LLC«Avtokomplekt»(Uzbekistan)  
 50% — «KFS International» (Korea)

### Factory:

Production capacity: 350 units per year.

### Location:

Tashkent, Yakkasaray distr., Shota Rustaveli, 53-B.

### Products:

Fuel pumps, lifting equipment.

### Staff:

More than 48 employees

(998) 95 253-05-56

[www.TOSHAFUS.uz](http://www.TOSHAFUS.uz)

## Fuel Pumps



Fuel pump for Nexia



Fuel pump for Genra



Fuel pump for Nexia R3

## **JSC «Uzagrotechsanoatxolding»**

Joint-stock company "Uzagrotechsanoatxolding" established on November 17, 2016. JSC "Uzagrotechsanoatxolding" includes "Uzagrotechmash" company, which specializes in organizing the production and supply of various types of machinery and means of mechanization for agriculture.

### **JSC «Tashkent plant of agricultural machinery»**

JSC "Tashkent plant of agricultural machinery" was established on May 15, 2014. The enterprise produces agricultural tractors in the cooperation with the Korean Company "LS Mtron". Their agricultural tractors "PLUS 100" and "LS1004" have an engine power up to 100 hp, "U62" and "G38" tractors have an engine power of 62 hp and 38 hp respectively.

Projected capacity of the enterprise is up to 5,000 tractors per year when working in one shift. Currently, production of cabs is being localized and all tractors will be equipped with an engine power up to 100 hp.

### **JSC «Chirchik plant of agricultural machinery»**

JSC "Chirchik plant of agricultural machinery" was established on May 15, 2014 in accordance with the Decree of the President of the Republic of Uzbekistan. The Company produces the ChKU-4A Chizel-cultivator, which is intended for preseeded layer-wise loosening of the soil with the introduction of fertilizers, weeding weed, harrowing or malting.

### **JSC «Technolog»**

Joint-Stock Company "Technolog" was established in 1959. Starting from 2014, the Company has become a joint-stock Company as a part of JSC "Uzagrotechmash".

JSC "Technolog" is a specialized enterprise for the engineering, design and production of tooling, automated production lines and non-standardized machines. The Company is also specialized in the production of import-replacement parts for enterprises such as JSC "Uzagrotechmash", JSC "Uzbekenergo" and other organizations of the Republic of Uzbekistan.

### **JSC «Aggregate Plant»**

JSC "Aggregate Plant" is a large industrial enterprise of Uzbekistan producing agricultural machinery. Having started its operations in 1956, the enterprise had been specialized in the production of individual components and assemblies until the 90 s. Currently, the main products of the Company are various types of sprayers designed for chemical protection, pest control, diseases of field, vegetable, industrial crops and gardens.

### **СП ООО «Uz CLAAS Agro»**

Since its establishment, the Company has mastered the production of combine harvesters "Dominator 130", tractors "Arion 630C", "Axion 850", "Axos 340C", high clearance "Axos 340C" and balers "Markant 55»

### **JV LLC «LEMKEN Chirchiq»**

The Company produces tillage and other types of agricultural equipment under the brand LEMKEN, including universal mounted reversible plows, rotary harrows, disc cultivators and packers.

### **JV LLC «AGRIXIM»**

JV LLC "AGRIXIM" was established in cooperation with the Italian Company "AGRIMONDO" in 1998 and is currently part of JSC "Uzagrotechmash".

The list of manufactured equipment includes knapsack hand, motorized knapsack, tractor fan, stationary-mobile sprayers, as well as pollinators.

## Tractor for cotton cultivation (3-wheel) «TTZ 100HC»

### Technical Specifications

Type	cotton-growing
Engine type	4-stroke, 4-cylinder, water cooling
Engine displacement,l	4,75
Nominal speed of engine crankshaft, h/p, rpm	73,6 (99)/2200
Way of air supply to the cylinders	turbocharged
Gear box	mechanical
Number of gears: for/rev	12/12
Speed at the regulated speed of engine crankshaft and absence of slipping, km/h:	
forward	1,78 – 36,03
back	1,88 – 37,88
POT - type/hp.	Automatic /85
Speed , min-1	
Speed I/II/III	540/750/1000
Track.mm	830
Clearance - Rear wheels	1602 – 1802
Tractor wheelbase	2345
Overall dimensions,mm	
Length	4478
Width	1967
Height	2602
Fuel tank capacity,l	115
Tractor weight without ballast,kg	3420



## Horticultural «U62»

### Technical Specifications

Type	gardening
Wheel formula	4K4
Engine type	4-stroke, 4-cylinder, water-cooled
Engine displacement,l	2,62
Nominal speed of engine crankshaft, h/p, rpm	45,6 (62)/2500
Way of air supply to the cylinders	turbocharged
Gear box	mechanical
Number of gears: for/rev	16/16
Speed at the regulated speed of engine crankshaft and absence of slipping, km/h:	
forward driving	1,12–29, 2
reverse driving	0,99–24,05
POT - type / h/p	automatic/58
Speed , min-1	
Speed I/II/III	540/750/1000
track, mm	
Rear wheels	1410-1742
Front wheels	1392-1718
track, mm	2047
Overall dimensions, mm	
Length	1980
Width	1790
Height	3778
Tractor weight without ballast ,kg	2370
Fuel tank capacity, l.	2370





## Multifunctional tractor «New Holland TD5.110»



### Technical Specifications

Model	TD5.110
Engine	FPT
Engine power (H.P)	110
Max. speed	30
Transmission	12/12
Cylinders	4
PTO	540/1000
Length	4150
Width	2000
Weight (KG)	4400
Fuel tank capacity(L)	110

The multifunctional tractor NEW HOLLAND TD5.110 tractor is intended for use practically of all types of agro technical works. Operation of the tractor is possible with the attached implements.

## Multifunctional tractor (140 л.с) «New Holland T6070»



### Technical Specifications

Model	T6070
Engine	FPT
Engine power (H.P)	140
Max. speed	40
Transmission	16/16
Cylinders	6
PTO	540/750/1000
Length	4824
Width	2000
Weight (KG)	5300
Fuel tank capacity(L)	250

The multifunctional tractor NEW HOLLAND T6070 tractor is intended for use practically of all types of agro technical works. Operation of the tractor is possible with the attached implements.

#### Contacts:

Lokation: 100142, Republic of Uzbekistan, Tashkent, Buyuk Ipak Yuli Street, 434.

Phone: +998 71 264 06 16

E-mail: [info@uzatm.uz](mailto:info@uzatm.uz)

Website: [www.uzagrotechsanoatxolding.uz](http://www.uzagrotechsanoatxolding.uz)

Department of export: +998 71 212 66 19

Department of marketing: +998 71 212 66 19





## «i38» Mini tractor

### Technical Specifications

Type	Small-sized
Engine type	3-cylinder
Engine displacement,l	2,003
Nominal speed of engine crankshaft, h/p, rpm	27.9 (38)/2600
Way of air supply to the cylinders	Non turbo
Gear box	mechanical
Number of gears: for/rev	12/12
Speed at the regulated speed of engine crankshaft and absence of slipping, km/h:	
forward driving	1,22 – 23,69
- reverse driving	1,16 – 22,53
POT - type / h/p	automatic/30
Speed , min-1	
Speed I/II/III	540
track, mm	
Rear wheels	1022-1338
Front wheels	1068
Track ,mm	1660
Overall dimensions, mm	
Width	3289
Height	1380
Tractor weight without ballast ,kg	1405



## Cotton-picking a car «MX-1,8»

### Technical Specifications

Productivity per 1 shift, ha	5-6
Working width, m	1,8
Machine weight (without tractor), t	4,1
Overall dimensions (with tractor), mm	
Length	8030
Width	3240
Height	4000
Travel speed, km/h	
at 1 collection	4,23
at 2 collection	5,13
Required power, kW	до 32,0
Bunker capacity, kg	800-850





## «Dominator 130»



### Technical Specifications

Engine Perkins	1006-E6
Nominal power, kW/hp	112/152
Threshing drum width, mm	1060
Threshing drum diameter, mm	450
Straw walker quantity, units	4
Straw walker area, m2	4,13
Straw walker length, m.	3,9
Fan	radial
Total area of sieves, m2	3,0
Grain tank capacity, l	3200
Pickup width of cutter bar, m.	4,2
Forward speed, km/h.	1,9-20
Fuel tank capacity, l.	200

This effective grain combine is equipped with «CLAAS» threshing drum, and ensures clear threshing, careful treatment of grain and high efficiency of separation.

## Washer cotton «CKO-3,6»



### Technical Specifications

Productivity, hectare / hour	1,5-2,0
Working width, m	3,6
Overall dimensions (without tractor), (length, width, height with raised separator)	4400x3750x3360
Traveling speed, km / h	4,13-5,36
Power Consumption (from BOM), kW	14,7
Bunker capacity, m3	5,8
Weight, kg	2400
Aggregated with tractors	TTZ-LS, MT3

## Chisel-cultivator "CHKU-4A"

### Technical Specifications

Working width, m	4
Operating speed, km / hr	7-8,5
Track gauge, mm	2450
Weight of the gun with	1705
Complete working bodies, kg	1705
Capacity of bunkers for fertilizers, l	375



## Harrow disc «WOD»

### Technical Specifications

Number of discs, pcs	24	28
Overall width, mm	2680	3120
Overall length, mm	5150	5150
Overall height, mm	1300	1300
Height, mm	1130	1130
Working depth (max.), mm	200–220	200–220
Working width, mm	2680	3120
Diameter of the disc, mm	560 x 4,5	560 x 4,5
Diameter of the disc, mm	610 x 5	610 x 5
The space between disc, mm	220	220
amount bearings, pcs	8	8
Frame size, mm	200 x 100	200 x 100
Required power, hp	90–95	105–110
Weight, kg	2000	2200



## Plow Hinged «ПНЯ-2-30» («ПНЯ-3-30»)

### Technical Specifications

Weight, kg	230	240
Operational speed, m/sec	1,09	
Productivity, ha/hour	0,26–0,33	0,4–0,5
Working width, cm	60	90



## Plow Hinged «Master select 123»

### Technical Specifications

Number of buildings, pcs.	3+1
Working width, cm	132–180
Depth of plowing, cm	до 40
Weight, kg	1300
Aggregated with tractor	от 140 л.с.
Productivity, hectare/ hour	1–1,5





## Sprayer universal «OBX-600»



### Technical Specifications

Type	mountable
Productivity, ha / hour:	FPT
cotton and field crops	18,9–22,2
gardens	2,8–5,6
Vineyards	4,5–4,8
with defoliation	9,45–11,1
Operating speed in basic operations, km / h	6,3–7,4
Working width, m	30
Fluid rate, l / ha	
cotton	100–150
gardens and vineyards	100–500
Capacity of tanks, l	630 (2-x баков)

## Mower-crusher rotary «KIP-1,5»



### Technical Specifications

Type	trailed rotary
Capacity for regular time, per hour	0,6-1,2
Productivity for operating time, hectare / hour	0,39-0,78
Operating speed, km / h	4-8
Working width, m	1,5
Loading height, mm	4
Working width, m	3100
Cutting height, mm	60-400
Coefficient of reliability of technological process, not less than	0,95
Losses, not more than, %	2
Weight, kg	900

It is intended for harvesting fodder crops, used for direct feeding animals and ensilage of green mass

## Seeder cotton «SChH-4B»

### Technical Specifications

Type	hinged, three-point tractor hitch system
Productivity, hectare / hour	3,6
Operating speed, km / h	6-10
Transport speed, km / h	not more than 15
Working width, m	3,6
Seeding depth, cm	3-8
Weight, kg	650±50



## Cultivator-plant-feeder cotton universal «KXY-4B»

### Technical Specifications

Productivity, hectare / hour	1,12-2,21
Depth of tillage, cm	14-25
Number of rows processed	4
Operating speed, km / h	3-7
Weight, kg	1600

The cultivator is designed to perform in the period vegetation of the main types of inter-row processing (weeding, loosening of soil, slicing irrigation furrows, fertilization in the middle of the rows and side rows) of cotton, kenaf, corn and other high-row tilled crops with row spacing 60, 70, 90 cm, sown with four-row seeders.





## Sprayer rod, hinged «F 600»



### Technical Specifications

Capacity, l	600
Width without boom, mm	1350
Length without boom, mm	700
Overall height mm	1500
Pump type	membrane
Length of boom, m	8–12
Number of output regulator, pieces	3–7
Safety Relief Valve	Standard
Tank Mixer	Standard
Tank material	berglass/ Polyethylene
PTO, rpm	540
Required power, h.p.	50
Total weight, kg	156

## Fertilizer spreader 2-disc «GS2 600



### Technical Specifications

Hopper capacity, l	600
Number of disks, pcs.	2
Working width, m	18
Overall width (W), mm	1700
Overall length (L), mm	1160
Overall height (N), mm	1110
PTO rpm	540
Required power, h.p.	60-65
Total weight, kg	200

## Mineral fertilizer spreader «PMY-0,75»



### Technical Specifications

Productivity, hectare / hour	1,0–1,4
Operating speed, km / h	12
Working width, m	16
Bunker capacity, kg	750
PTO rotation speed, rpm	600
Overall dimensions, mm	1250x1050x1350
Weight, kg	240

Mineral spreaders "RMU-0.5" serves for continuous surface application of mineral fertilizers in open fields and in gardens.

## Tractor Trailer «2ПТС-4-793А-03А»

### Technical Specifications

Lifting force, kg	4000
Weight, kg	1890
Maximum speed, km/h	35
Platform capacity, m <sup>3</sup>	12,7
Wheelbase, mm	2300
Turning radius, degree	50



## Sprayer Fan Universal «VP-1»

### Technical Specifications

Productivity, hectare / hour	up to 25
Working width	
- cotton, m ;	up to 25
- gardens \	1–2 rows
- vineyards   j	2–3 rows
- separately standing trees, m ;	up to 16
Fluid rate, l / hectare	
cotton, m	50-400
Gardens and vineyards	400-600
Power Consumption	22
Drive unit	
pump	PTO tractor
working nozzle	Rechargeable
Tanks	
for pesticides, l	600-800
for flushing the system, l	50
for washing hands, l	12
Pollution iaids (on request) Suspended on the fan	
productivity ha / h	12-15
Machine weight, dry, kg	350



## Ditch-digger «КБН-0,35»

### Technical Specifications

Working width, m:	
a) Equalizer	1.8 and 2.0
b) the scheduler	2.4
Productivity at cutting and leveling channels per hour of clean time, km / h	2,63–5,5
Operating speed, km / h	3,20-5,5
Transport clearance, mm	no less than 350
Weight of the complete set, kg	589 ± 18



Designed for cutting and equalizing temporary in-card irrigators, outlets and auxiliary furrows during irrigation during the period vegetation of cotton or other crops and for planning work in the presowing period

## Building Materials Industry

### Association "Uzpromstroyaterialy"

Established in 2019 on the basis of the joint-stock company for the production of building materials, the Uzpromstroyaterialy Association is a leading industry structure uniting over 120 enterprises.

#### Industry enterprises:

#### ENTERPRISES FOR THE PRODUCTION OF CEMENT, BINDERS AND PRODUCTS FROM THEM



#### ENTERPRISES FOR THE PRODUCTION OF GLASS, GLASSWARE AND CERAMIC PRODUCTS



#### ENTERPRISES FOR THE PRODUCTION OF WALL MATERIALS, MINING AND PROCESSING OF NATURAL STONE



#### ENTERPRISES FOR THE PRODUCTION OF OTHER BUILDING AND FINISHING MATERIALS





Currently, JSC "Uzstroyaterialy" is exporting its products to the markets of Russia, Ukraine, Kazakhstan, Kyrgyzstan and Turkmenistan, there is an increasing demand for ceramic tiles, sanitaryware, dry building mixtures, burnt bricks, facing products made of natural stone, lime, polypropylene pipes, fittings.

Currently, a number of these countries have replenished Tajikistan and Afghanistan, where from 2017 sanitary ceramics, asbestos products, building glass, and cement have been exported. It should be noted that the necessary activities are being taken in the company to further increase the export potential. For that reason, specific plans are outlined for expanding the range of export-oriented products and export geography.

## Products



Lime



Cement



Gypsum



Granite



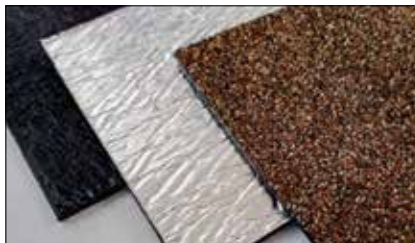
Marble



Other kinds of natural stones



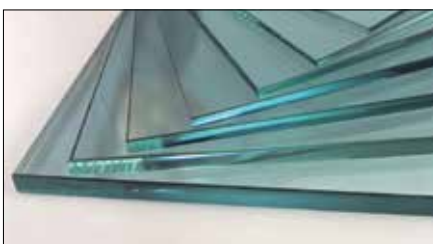
Asbestos-Cement Pipes



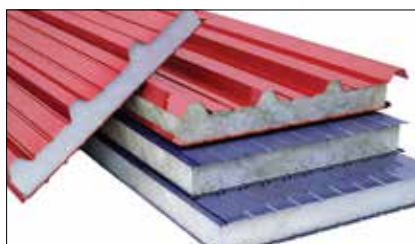
Bikrom



Dry Mixes



Glassware



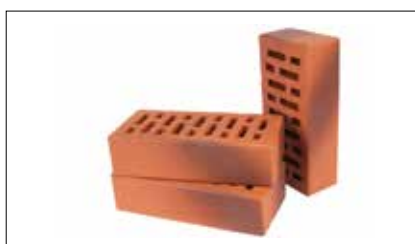
Sandwich Panels



Slate



Sanitary Ceramic Products



Brick



Polystyrene concrete



## Enterprises

### JSC "Akhangaranshifer"

8-wave slate GOST 30430-84

slate flat GOST 18124-95

asbestos-cement pipes with a diameter of 180-400mm GOST 539-80

slag blocks GOST 61-3384

### JSC "Akhangarancement"

#### 1) Cements:

- Portland cement brand 500 without mineral additives PC 500 D0-N
- Portland cement brand 400 without mineral additives PC 400 D0-N
- Portland cement brand 400 with the active mineral additive PC 400-D20
- slag Portland cement 400 - ShPC 400
- pozzolanic portland cement PPC 400
- Portland cement grade CEM II / A
- Portland cement grade CEM IY / A

#### 2) Mineral wool products:

- hard mineral wool plates on a synthetic binder: RV 150-1000x500x50;
- RV 175-1000x500x50; TU 64-00295113-01: 2006
- Mineral wool boards of increased rigidity on a synthetic binder:
- PPJ 200-1000x500x50; GOST 22950-95
- mineral wool, type VM-70; GOST 4640-93

#### 3) Refractories:

- fire-resistant brick of the brand SHUS-3, 200x150x100x98;
- fire-resistant brick of the brand SHUS-4, 200x150x65x75;
- fire-resistant brick SHUS-7, 230x150x90x100;
- fire-resistant brick of the brand SHUS-9, 300x150x65.

#### 4) Products of building materials and structures:

- floor slabs reinforced concrete hollow core in a wide range;
- slabs reinforced concrete ribbed;
- racks of support of overhead power lines reinforced concrete;
- reinforced concrete fencing panels;
- foundations of stakannogo type reinforced concrete for fencing;
- reinforced concrete stones;
- wall rings KS10-9;
- PO-IO base plates for wells;
- blocks of concrete basement walls in stock;
- trays sideways reinforced concrete;
- heavy concrete of various grades;
- concrete mixes of various brands;
- mortar building.



## JSC "Bukharagips"

Knauf-Rotband  
Knauf-Fugen  
Knauf-Perlfix  
Knauf-Satengyps

## JSC «Kizilkumcement»

Portland cement GOST 10178-85  
Sulfate-resistant portland cement PCT Uz 22266-94  
Tamponage Portland cement GOST-15.81-96  
Construction crushed stone GOST 8267-97  
Stones concrete wall GOST 6133-99  
Concrete blocks for step cellars RST Uz 778-97  
Concrete paving slabs RST Uz 712-96

## JSC "Kvarts"

Glass  
Colored glass  
Glass bottles

## JV LLC "Everest Metall Favorite"

Electric welded longitudinal pipes of steel 3-PS  
Electric welded longitudinal pipes of steel 3-PS profile  
Asbestos cement pipes free-flow from D 100 to D 300

## LLC "Everest Asbest"

Gypsum  
Lime  
Alabaster  
Chrysotile cement pipes

**Association «Uzpromstroymaterialy»**

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## Chemical Industry

### JSC "Uzbekneftegaz"

JSC "Uzbekneftegaz" is a vertically integrated three-tier company in the form of a joint-stock company, uniting more than 190 enterprises, providing all areas of the oil and gas industry with about 120 thousand employees.

The structure of JSC "Uzbekneftegaz" includes 5 joint stock companies – JSC "Uzburneftgaz" – carries out geological exploration, exploration and operational drilling of oil and gas boreholes, JSC "Uzneftegazdobicha" – develops oil and gas fields, extracts oil, gas and gas condensate, processes natural gas, JSC "Uztransgaz" – provides transportation and underground gas storage, JSC "Uznefteproduct" – carries out processing of oil and gas condensate, and also sells oil products to industries, JSC "Uzneftegazmash" – manufactures engineering products for enterprises and organizations of oil and gas chemical complexes.

#### Products for export

Main export products are lump and granulated sulfur, polyethylene (types F-0120, F-0320, B-Y460, P-Y342, P-Y456, I-0760, I-1561), technical oils (industrial oil – И-12А, И-20А, И-40А, И-50А, base oil – SN-150, SN-100, motor oil – M20А and petrolatum – ПС-55) and others.

### Lump sulfur



**Purpose and advantages of a product:** Sulfur technical lump has the widest range of application in the chemical, agricultural, medical, food, paper, rubber industry, it is used in the manufacture of fertilizers, matches and gunpowder, dyes. Special attention is given to the relatively new areas of production and construction, including road. Here sulfur lump is used for the production of sulfur foam and high-strength building structures, in particular, in the production of sulfur concrete and sulfur asphalt. Most of the lump sulfur produced in the world is used as a raw material for the industrial production of sulfuric acid.

#### Specifications

Sulfur content not less	99,90%
Ash content	0,05%
Organic matter content	0,06%
Acids in terms of not sulfuric acid content, not less	0,004%.
Water content	0,2%

**Packaging:** in polypropylene bags of 1 and 1.5 tons.

**Transportation:** in bulk and packed.

**Quality Standard:** GOST 127.1–93

## Granulated sulfur



**Application:** Being a common product of nature, in turn, it is indispensable for the growth of many plants. About half of the sulfur produced used in the production of sulfuric acid. Sulfur is also used for the vulcanization of rubber, as a fungicide in agriculture and as colloidal sulfur as a drug. Also sulfur in the composition of sulfur-bitumen compositions is used to obtain sulfur-asphalt, and as a substitute of Portland cement - to obtain sulfur-concrete. Sulfur is used for the production of pyrotechnic compositions, previously used in the manufacture of gunpowder, used for the production of matches.

### Specifications

Sulfur content not less	99,90%
Ash content	0,05%
Organic matter content	0,06%
Acids in terms of not sulfuric acid content, not less	0,004%
Water content	0,2%

**Packaging:** in polypropylene bags of 1 and 1.5 tons.

**Transportation:** in bulk and packed.

**Quality Standard:** GOST 127.1-93

## Polyethylene



**Application and advantages:** The production process of the main product - polyethylene - is carried out using the liquid-phase polymerization technology SCLAIRTECH, under license from the North American Company NOVA Chemicals. The main advantage of this technology is the possibility of varying the physico-chemical and rheological parameters of polyethylene using the sequential mode of tubular and autoclaved reactors. This allows the production of linear polyethylene of various types in one production line. The polymer obtained completely separated from solvents, catalyst residues, is purified from the harmful substances present, and in a molten form with the lowest content of volatile compounds is fed to the main extruder. All necessary additives are added in liquid or molten form, which guarantees good mixing and complete homogenization. Polyethylene produced by this technology can be used for the manufacture of any products in contact with food and the human body without harm to health.

### Specifications

Mark	Specifications
B-Y 460	Blow molding - forming bottles for packaging and storing liquids.
F-0120 и F-0320	Film grades - for films and film products for general use, thin film (base layer of stretch films)
I-0760 и I-1561	Casting stamps - for the manufacture of containers - baskets, boxes, oversized and thin-walled products (containers, boxes)
P-Y 342 и P-Y 456	Pipe brands - pipe products (pressure), drain pipes (sewage, drainage)

**Packaging:** in polypropylene bags of 50 kg

**Transportation:** packed

## Technical Oils



### Industrial Oil

#### Technical Specifications

	Mark I-12A	Mark I-20A	Mark I-40A	Mark I-50A
Kinematic viscosity at 40 ° C, mm <sup>2</sup> / s, within	13–21	25–35	51–75	75–95
Acid number mg KOH per lg of oil, not more than	0,02	0,03	0,05	0,05
Ash content,% , not more	0,005	0,005	0,005	0,005
Mass fraction of sulfur,% , not more than	1,0	1,0	1,1	1,1
Content of mechanical impurities	no	no	no	no
Mass fraction of water,% , not more than	mili trace	mili trace	mili trace	mili trace
Density at 20 C, kg / m <sup>3</sup> , not more	880	890	900	910
Pour point, C, not higher	- 15	- 15	- 15	- 15
Color on a TsNT colorimeter, units of a CNT, not more than	2,5	3,0	4,5	5,5
Flash point, determined in open crucible, C, not lower	170	180	210	225
Solvent content in selective refining oils	no	no	no	no

**Application:** used in production equipment, machine tools, construction, road and other machines.

## Motor oil

### Technical Specifications

	Марка M20A
Kinematic viscosity at 100 C, mm <sup>2</sup> / s, within	20
Viscosity index, not less	85
Acid number mg KOH per lg of oil, not more than	0,03
Flash point, determined in open crucible, C, not lower	225
Pour point, C, not higher	- 15
Content of mechanical impurities	no
Mass fraction of sulfur,%, not more than	1,5
Density at 20 C, kg / m <sup>3</sup> , not more	905
Mass fraction of water,%, not more than	mili trace
Coking ability,% not more than	0,9
Solvent content	no
Зольность, %, не более	0,005
Color on a TsNT colorimeter, units of a CNT, not more than	7,0

**Application:** Engine oil of the M-20A brand, is applied to greasing internal combustion engines of land equipment.

## Gach-II fraction

### Technical Specifications

Mass fraction of oil,% not more than	15%
Melting point, C, not lower	47
Mass fraction of sulfur,%, not more than	0,7
Mass fraction of water,%, not more than	mili trace
Mass fraction of mechanical impurities,% not more than	no
Flash point, determined in open crucible, C, not lower	160

**Application:** Paraffin is subsequently produced from this product. In the process of de-oiling Gachi, fractions of soft and hard paraffins with different melting points, penetration rates and oil content are obtained from it. Gach oil is widely used in many industries: Pulp and paper industry - making tracing paper, waxed paper; in light industry - in the manufacture of canvas coatings; in the woodworking sector - in the production of composite wood-based panels. Appearance - crystalline mass from yellow to brown. Candles, polishes, matches, inks, tracing paper, waxed paper, canvas coatings, composite wood boards.

#### JSC "Uzbekneftegaz"

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## JSC "Uzkimyosanoat"

Joint Stock Company "Uzkimyosanoat" - an integrated corporate structure that combines chemical enterprises of the Republic of Uzbekistan. The company develops and sells industrial, innovation, marketing program development of chemical plants, thus creating the conditions and prerequisites for the sustainable development of the industry as a whole.

The company comprises 14 industrial enterprises, 13 regional distribution organizations involved in the implementation of mineral fertilizers to agriculture, scientific research and design institutes, foreign freight forwarding organization "Kime-trans" and "Kimetrans Logistics", and brokerage company "Hamkor - Kimeservis". Large enterprises of the company are JSC «MAXAM-CHIRCHIQ», JSC «Jizzakh Plastmassa», JSC «Ammafos-Maxam», JSC «Kukand superfosfat plant», JSC «Dekhkanabad potash fertilizer plant», JSC «Samarkandchem», JV JSC «Electrochemplant», JV «Kungrad soda plant», JSC «Ferghanaazot», JSC «Navoiazot», JV-LLC «Navoiy Hunan Pulp», JV-LLC «Navoiy Beauty Cosmetics».





## Mixed Nitrogen-Phosphorus Fertilizer (Nphf) Ts 00203068-27:2015



Highly concentrated granulated nitrogen-phosphorus fertilizer is formed by mechanical mixing of ammonium nitrate with ammonophos in ratio 9:1. The product is used as mineral fertilizer. This fertilizer is used on all type of soil for basic and starter application under all crops.

<b>Physical configuration</b>	granulated product without any mechanical impurities
Granulometric composition, mass fraction of granules size : - less than 1 mm, %, no more than - from 1 to 4 mm, %, no less than - more than 6 mm, %	3 95 not available
Mass fraction of the sum of nitrate and ammonium nitrogen, %	29÷32
Mass fraction of total phosphate, %, no less than	4
pH 10% - water solution, no less than	4
Mass fraction of calcium nitrate and magnesium in terms of a CaO, %	0,2÷0,5
Friability, %, no less than	100

**Safety Requirements:** nitrogen-phosphorus fertilizer refers to low-hazardous substances. By degree of impact on human body, it is referred to 4th class of hazard, it's an oxidizing compound and fire hazardous.

**Packaging:** in polypropylene valve sacks and with polyethylene insert.

**Transportation:** in sacks by any kind of transport, excluding air transport, in covered vehicles in accordance with the rules of transportation, effective for given kind of transport.

**Storage:** the product is packed in polyethylene container, stored in covered, dry and clean storehouses, protected from moisture, excluding rain and subsoil water, separately from other materials and substances.

Guarantee term of storage: 6 months since the date of manufacturing.

## Ammonium Sulphate (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub> GOST 9097-82



Ammonium sulphate fertilizer contains 21% of nitrogen in ammonium and not more than 24% of sulfur in sulphate-ions available for plant nutrition. It is weakly hygroscopic, less become caked, well dispersed and quickly dissolved in water, not spread in the air and hold the friability. By physical configuration of ammonium sulphate is a white or light-colored color crystalline powder, allowed light yellow and pink tone. It is also used for feeding. It can be applied not only in spring, but in autumn too, because nitrogen of ammonium sulphate is weakly washed away from soil and well assimilated by plants.

Specifications	
Physical configuration	white or colorless crystals
Mass fraction of nitrogen in terms of dry substance, %, no less than	21
Mass fraction of water, %, no more than: granular crystalline	0,6 0,2
Mass fraction of free sulfur, %, no more than: granular crystalline	0,5 0,03
Granulometric composition: for granular: 1–4 mm, %, no less than for crystalline: more than 0,5 mm, %, no less than sieve residue 6 mm	90 80 not available
Friability, %, no less than	100

**Safety Requirements:** ammonium sulphate – noncombustible substance.

**Packaging:** in polypropylene sacks of 25, 40 and 50 ± 1 kg.

**Transportation:** in bulk mass and packed.

**Storage:** inside dry and clean storehouse, protected from moisture.

Guarantee term of storage: 6 months from the date of manufacturing. For retail trade the guarantee term of storage — 12 months since the date of manufacturing. Expiration date of agrochemical is not limited.

## PS-AGRO



"PS-Agro" is a mineral fertilizer intended for agriculture and retail trade, as granulated complex mixed sulfur-containing phosphate fertilizer containing calcium in a digestible form and nitrogen in ammonia form, for root feeding of agricultural crops on all types of soil.

Name of parameters	Standardized grade	
	A	B
1. Mass share of total phosphates,%	41 +/- 1	38 +/- 1
2. Mass share of total nitrogen,%	4 +/- 1	5 +/- 1
3. Mass share of potassium, in terms of CaO,%	10 +/- 1	13 +/- 1
4. Mass share of sulfur, in terms of SO <sub>3</sub> ,%	5	7
5. Mass share of water, not more,%	2,0	2,0
6. pH of 1% liquor, not less than,%	3,5	3,5
7. Granulometric composition:		
mass share of granules of size:		
from 1 mm to 4 mm, not less,%	90	90
less than 1 mm, no more than,%	10	10
less than 6 mm,%	100	100
8. Statistical strength of granules, not less, Mpa (kgf / cm)	3,0 (30)	3,0 (30)
9. Friability, %	100	100

**Application:** it is used as a highly efficient water-soluble nitrogen-phosphorus fertilizer used in various soils for all crops, it can be used in protected ground conditions, as well as for indoor and balcony floriculture.

**Transportation:** transported packed - plastic bags, polypropylene, plastic, paper bags, big benes, containers or in bulk.

**Storage:** stored in closed warehouses, excluding the ingress of precipitation and groundwater. Warranty period of storage and shelf life - not limited. The company has developed, implemented and certified a management system in accordance with the requirements of ISO 9001: 2008 and O'z DSt ISO 9001: 2009.



## Hydrous Ammonia Technical GOST 9-92



Commercial-grade hydrous ammonia is transparent colorless liquid with typical sharp odour, it doesn't contain mechanical additives. In all rations it is mixed with water and alcohol.

Commercial-grade hydrous ammonia is produced in three grades: "A" and "B".

- "A"-grade is used in various branches of industry.
- "B"-grade in agriculture as nitrogen fertilizer. Economically the nitrogen of this kind fertilizer is the cheaper. The highest effect of ammonia using is achieved in autumn application in the soil; the soil is kept better than ammonium nitrogen of solid fertilizers.

Specifications	«A»	«B»
Physical configuration	transparent colorless or yellowish liquid	
Mass fraction of ammonia, %, no less than	25	25
In terms of nitrogen, %, no less than	Unnormalized	20,5
Mass concentration of non-volatile residue, g/cdm <sup>3</sup> , no more than	0,07	Unnormalized
Mass concentration of carbon dioxide, g/cdm <sup>3</sup> , no more than	Unnormalized	8

**Safety Requirements:** incombustible and non-explosive liquid. Hydrous ammonia refers to 4th class of hazard. During operating use the measures of individual protection and personal hygiene.

**Transportation:** transported by rail, road and water transport in leakproof vehicles in accordance with the rules of transportation, effective for given kind of transport.

Product of "A" grade is transported in railway tankers and ammonia locomotives.

Product of "B" grade is transported in tankers with bottom draining with bottom unloading and ammonia locomotives.

**Storage:** in hermetically container in covered storehouses or in special tanks is intended for storage.

Guarantee term of storage: 1 year since the date of manufacturing.

## Ammonium Nitrate $NH_4NO_3$ GOST 2-2013



Ammonia nitrate is an universal nitrogen fertilizer consisting of 34,4% nitrogen-on half in fluent, quickly digestible nitrate form and half in slow and continuous of ammonia action. Fertilizer fully and rapidly assimilated by plants, it has a widespread effect on different crops.

Specifications	Grades
Fraction of total mass nitrate and ammonium nitrogen in terms of $NH_4NO_3$ in dry substance, %, min	98
Mass fraction of water with calcium nitrate and magnesium nitrate additives, %, no more than	0,3
pH 10 %- water solution, no less than	5,0
Mass fraction of substances not soluble in 10% solution of nitric acid %, no more than	0,2
Granulometric composition: from 1 to 3 mm, %, no less than from 1 to 4 mm, %, no less than from 2 to 4 mm, %, no less than less than 1 mm, %, no more than more than 6 mm, %	93 Unnormalized Unnormalized 4 0,0
Static strength of granules, N/granule (kg/granule), no less than	5 (0,5)
Friability, %, no less than	100

**Safety Requirements:** ammonium nitrate refers to low-hazardous substances, it's an oxidizing compound and fire hazardous. By degree of impact on human body, ammonium nitrate is referred to 4th class of hazard.

**Packaging:** in polypropylene sacks of  $50 \pm 1$  kg.

**Transportation:** in bulk mass and packed

**Storage:** inside dry and clean storehouse, protected from moisture, separately from other material and substances.

Guarantee term of storage: 6 months since the date of manufacturing.

## AMMOPHOS GOST 18918-85



Ammophos is made in the form of granules of gray color, possesses good physical and chemical properties: it doesn't cake, doesn't stick, it doesn't crumble, it isn't hygroscopic and doesn't freeze together at storage, it isn't toxic, fire and explosion-proof. Ammophos consists generally of monoammonium phosphate ( $\text{NH}_4\text{H}_2\text{PO}_4$ ) with impurity of diammonium phosphate  $(\text{NH}_4)_2\text{HPO}_4$ .

Ammophos is made with the following content of nutrients:

Name of parameters	highest grade	1 grade
1. Mass share of assimilable phosphates,%	н/м 46	44 +/- 1
2. Mass share of water soluble,%	-	-
3. Mass share		
total nitrogen, N,%	10 +/- 1	10 +/- 1
ammonia nitrogen,%	-	
4. Mass share of water, not more,%	1,0	1,0
5. Granulometric composition:		
mass share of granules:		
less than 1 mm, no more than,%	2	2
from 1 mm to 4 mm, not less,%	95	95
less than 6 mm,%	100	100
6. Statistical strength of granules, not less, Mpa (kgf / cm)	3,0 (30)	3,0 (30)
7. Friability, %	100	100

**Application:** as the highly effective water-soluble nitrogen-phosphorus fertilizer used on various soils under all cultures it can be applied in the conditions of the protected soil, and also to room and balcony floriculture. Ammophos is suitable for all ways of introduction: the basic, bed application and for top dressing.

**Transportation:** as the highly effective water-soluble nitrogen-phosphorus fertilizer used on various soils under all cultures it can be applied in the conditions of the protected soil, and also to room and balcony floriculture. Ammophos is suitable for all ways of introduction: the basic, bed application and for top dressing.

**Storage:** Warranty period of storage of ammophos an embankment - 9 months from the date of production of a product. For ammophos in packed form a warranty period of storage-24 of month from the date of production. The ammophos expiration date – isn't limited. On the enterprise the system of management according to requirements of the ISO 9001:2008 and O'z DSt ISO 9001:2009 standard is developed, introduced and certified.



## Carbon dioxide GOST 8050

### Basic physical and chemical properties

Name	Parameters
Chemical formula	CO <sub>2</sub>
Molecular mass	44,01
Appearance	Colorless, odorless liquid
Critical temperature	31,1°C
Critical pressure	7,4 МПа
Boiling point (sublimation) at atmospheric pressure	78,5°C



### Technical Specifications

Name	Standards		
	Top grade	Top grade	Top grade
Volume fraction of carbon dioxide (CO <sub>2</sub> ), %, not less	99,8	99,5	98,8
Volume fraction of carbon monoxide (CO)	stand the test		
Mass concentration of mineral oils of mechanical impurities, mg / kg, not more than	0,1	0,1	stand the test
Presence of hydrogen sulfide	stand the test		
Presence of hydrochloric acid	stand the test		
Presence of sulfurous and nitrous acids and organic compounds (alcohols, esters, aldehydes and organic acids)	stand the test		
Presence of ammonia and ethanolamov →	stand the test		
Presence of smell and taste	stand the test		
Mass fraction of water,% not more than	stand the test		

**Application:** Carbon dioxide is used in different directions:

- as a baking powder;
- in the production of carbonated beverages;
- dry ice to cool, freeze and store foodstuffs through direct and indirect contact with them;
- for drying of casting molds;
- cylinders with liquid carbon dioxide are widely used as fire extinguishers
- as a protective environment when welding wire;
- in cans, in pneumatic weapons (in gas-balloon pneumatics);
- as an energy source for engines in aeromodelling.

**Packing and storage:** Steel cylinders and tanks are used under the liquid carbon dioxide inlet. Guaranteed shelf life of liquid carbon dioxide:

- in cylinders 2 years from the date of manufacture;
- in tanks 6 months from the date of production.
- Transportation: Liquid high pressure carbon dioxide is supplied in cylinders with a capacity of up to 50 m<sup>3</sup> under pressure.
- Liquid low-temperature carbon dioxide is supplied in isothermal tanks or tank containers.
- Liquid carbon dioxide is supplied in pressure vessels:
- in cylinders according to GOST 949-73;
- in cylinders for household siphons according to GOST 19136-80;
- by motor transport in isothermal tanks of type ZHU.

## Cellulose diacetate KSt 6-00203855-09:2007



Cellulose diacetate is used for the production of chemical fibers and acetate silk.

### Technical Specifications

Index name	CDA of cotton cellulose			CDA of wood cellulose
	Top grade	1 st grade	2 nd grade	
Appearance	Amphorous or granule-like fractions			
Mass share of combined acetic acid,%	54,2–55,5	54,2–55,5	54,2–55,5	54,2–55,5
Increment of viscosity IWF-4, not less	0,34	0,33	0,32	0,34
Dynamic viscosity of 23% solution of cellulose diacetate Pas, within	70–120	80–130	90–140	not more than 90
Colourity of KFK, %	0,20–0,40	0,20–0,50	0,20–0,60	0,4–1,0
Filterability, g/cm <sup>2</sup>	3,5–5,0	2,5–3,5		not less than 18
Mass share of free acetic acid, %, not more than	0,02	0,02	0,02	0,0035
Mass share of low-molecular fractions, not more than	5,0	6,0	7,0	-
Mass share of water, not more than	3,5	3,5	3,5	3,5
Mass share of residue after calcination, %, not more than Transparency,%	There is no color change when comparing with original			
	at 195°C	at 190°C	at 180°C	at 200°C
Bulk weight, kg/m <sup>3</sup> ,	0,1	0,25	0,25	0,05
Mass share of residue after calcination, %, not more than	-	-	-	50 ± 5
Transparency,%	-	-	-	300–450

**Packaging:** the product is packed in polypropylene bags with liners of polyethylene film. CDA should be stored in compressed form in the dry indoors with no direct sunlight, moisture and acid vapors.

**Transportaion:** cellulose diacetate (CDA) is transported by all kinds of covered vehicles in accordance with the rules of carriage of goods, operating in this mode of transport each subject to the deletion moisture and ensure the preservation of its quality.

**Storage:** storage period is one year from the date of manufacture.





## Potassium chloride brand "Small", grade 1 (pink) GOST 4568-95



**Appearance:** small crystals of various shades of red-brown color.

**Application:** potassium chloride is used in agriculture as a mineral fertilizer. It is also intended for the production of leather substitutes, synthetic rubber, baking and fodder yeast, as well as for the production of therapeutic and prophylactic salt.

### Technical Specifications

Name of parametres	Standards for brand small, grade 1
Appearance	Small crystals of grayish-white color or small grains of various shades of red-brown color
Mass fraction of potassium in terms of K <sub>2</sub> O,%, not less	60
Mass fraction of water,%, not more than	1,0
Granulometric composition (mass share of fractions),%	not standardized
Dynamic strength (mass share of intact granules),%, not less	not standardized
Friability, %	100

**Urea  $H_2N-CO-NH_2$  GOST 2081-2010**


Urea is intended for use in the industry as a raw material in the manufacturing of glues, resins and others, in agriculture, including smallholdings and farms as a mineral nitrogen fertilizer, and also in livestock as feed additive.

Specifications	Highest grade	First grade
Mass fraction of nitrogen in dry substance,% no less than	46,3	46,2
Mass fraction of biuret , % no more than	0,6	1,4
Mass fraction of free ammonia, %, max, for urea: crystalline	0,01	0,01
granular	0,02	0,03
Mass fraction of water , %, no more than: hygroscopic	0,3	0,3
total	0,6	0,6

**Safety Requirements:** urea in normal conditions is non-combustible, flameproof and explosion-proof. By degree of impact on human body, urea is referred to moderate hazardous substances of 3<sup>rd</sup> class.

**Packaging:** in polypropylene sacks of 25, 40 and  $50 \pm 1$  kg. The product should be stored in a covered and well ventilated storehouses, protecting the product from atmospheric condensation.

**Transportation:** in bulk mass and packed, by any kind of transport in accordance with the rules of transportation, effective for given kind of transportation.

**Guarantee term of storage:** 6 months since the date of manufacturing. Guarantee term of storage of urea intended for retail trade- 2 years since the date of manufacturing.



## Complex fertilizers-“Fertilizer mixture” TSh 6.3-85:2007



Complex fertilizers- fertilizer mixture is a specially composition to treat the plants with deficiency or zinc deficit. Applied as powder or water solution

Complex fertilizers- fertilizer mixture is dissolved in water and contained of three major nutrients: nitrogen, phosphorus and potassium. The zinc is added as micro element, which assists to assimilate the basic macro elements.

Specifications	
Physical configuration	factions of different colors or powder
Total nitrogen (N <sub>2</sub> ), %, min	18
Mass fraction of P <sub>2</sub> O <sub>5</sub> digestible, %, min	9
Mass fraction of K <sub>2</sub> O, %, min	5
Moisture content, %, no more than	3
Sum of ion's microelements in terms of zinc (Zn), %, no less than	1

**Safety Requirements:** works with complex fertilizers (fertilizer mixture) should be carried out in compliance of individual protective measures. During preparing solutions the consumer should work in rubber gloves. If the fertilizer solution gets on skin, wash it with stream water. In case of contact with eyes, thoroughly wash with water. When it gets into stomach drink several glasses of slightly pink solution of potassium manganese acidic and cause vomiting. After work wash the hands and face with soap and water, rinse the mouth.

**Packaging:** in bags of polymeric materials and paper or plastic bags of 1, 3, 5, 10, 25 kg.

**Transportation:** by all kinds of transport in accordance with the rules of transportation, effective for given kind of transport.

**Storage:** in covered, dry and clean storehouses, protected from moisture, away from heaters, difficult of access for children and pets place, separately from foods and medicines.

**Guarantee term of storage:** 24 months. Expiration date of agrochemical is not limited.



## Sulfuric acid GOST 2184-77



Sulfuric acid — colourless oily liquid, sometimes it is painted in dark color owing to a carbonization of organic substances. The chemical composition of sulfuric acid is expressed by a formula  $H_2SO_4$ . Sulfuric acid mixes up with water in any ratios. The main physical and chemical properties of solutions of sulfuric acid depend on a ratio in her of water and teroxide of sulfur. Density of sulfuric acid with a mass fraction of monohydrate of 100% at a temperature of 20 0 °C — 1,8305 g/cm<sup>3</sup>. Sulfuric acid — is explosion-proof, at her contact with water there is a rough reaction to big allocation of heat, vapors and gases. Sulfuric acid — is toxic.

Name of parameters	Standards for contact acid		
	Improved	Technical	
		1 <sup>st</sup> grade	2 <sup>nd</sup> grade
Mass share of monohydrate	92,5-94,0	not less than 92.5	
Mass share of iron (Fe), not more,%	0,006	0,02	0,1
Mass share of nitrogen oxides (N2O3), not more than,%	0,00005	not standardized	

**Storage:** Sulfuric acid of the 1st and 2nd grade has to be stored in capacities from steel or special steel, both a not lined and acidproof brick-lined or acid resisting material. The improved sulfuric acid has to be stored at the consumer in pure hermetically sealed capacities from stainless steel or capacities from steel, lined acid-resistant tile or a brick-lined.

**Transportation:** transport by rail in tanks and the motor transport in containers and barrels according to the rules of transportation of goods existing on each type of transport.

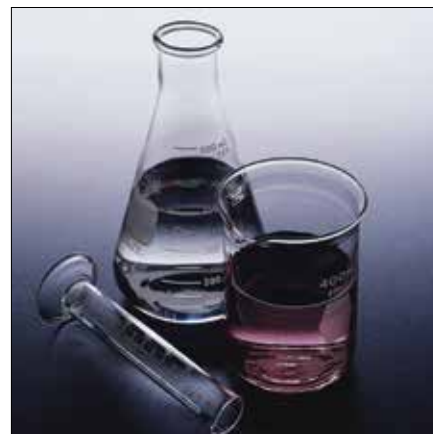
**Application:** Sulfuric acid is widely used in various branches of a national economy: in production of various mineral salts, organic products, aniline dyes, explosives, in oil, metallurgical, metalworking and other productions. A warranty period of storage of sulfuric acid – one month from the date of production

## Methanol technical grade "A" GOST 2222-95

Methanol is one of the most important organic products, the simplest representative of monatomic monohydric alcohols. Methanol is mixed in all respects with water and many organic liquids, but does not mix with aliphatic hydrocarbons. It absorbs water vapor, carbon dioxide and some other substances..

### Basic physical and chemical properties

Name of parameters	Standards
Appearance	Colorless transparent liquid without insoluble impurities
Molecular mass	32,04
Density at 20 °C, g/cm <sup>3</sup>	0,791-0,792
Maximum allowable concentration in industrial premises, mg/m <sup>3</sup>	5,0



### Technical Specifications

Name of parameters	Standards	
	Grade A	Grade B
Appearance	Colorless transparent liquid without insoluble impurities	
Density at 20 °C, g/cm <sup>3</sup>	0,791-0,792	
Mass fraction of water,%, not more than	0,05	0,08
Miscibility with water	Miscible with water with no traces of turbidity and opalescence.	
Temperature limits: A) boiling point, °C B) 99% of the product is distilled within, °C, not more than	64,0-65,5	
Mass fraction of free acids in terms of formic acid,%, not more than	0,8	1,0
Mass fraction of aldehydes and ketones in terms of acetone,%, not more than	0,0015	
Mass fraction of aldehydes and ketones in terms of acetone,%, not more than	0,003	0,008
Mass fraction of volatile iron compounds in terms of iron,%, not more than	0,0001	0,0005
Test with potassium permanganate, min, not less	60	30
Mass fraction of ammonia and amino compounds in terms of ammonia,%, not more than	0,00001	-
Mass fraction of chlorine,%, not more than	0,0001	0,001
Mass fraction of sulfur,%, not more than	0,0001	0,001
Mass fraction of non-volatile residue after evaporation,%, not more than	0,01	0,002
Electrical conductivity, cm / m, not more	3*10 <sup>-5</sup>	-
Mass fraction of ethyl alcohol,%, not more than	0,01	-
Chromaticity on a platinum-cobalt scale, Hazen units, not more than	5	-

**Application:** In the chemical industry, methanol is used as an intermediate. Methanol is used in the largest quantities to produce formaldehyde, acetic acid, synthetic rubber, and also as a methylating agent in the production of dimethyl terephthalate, methylamine, methyl methacrylate, pentaerythritol, and urotropin. Methanol is consumed in large quantities to produce various chemicals, such as chlorophos, karbofos, methyl chloride and methyl bromide, dimethyl sulfate, vinyl methyl ether, dimethylaniline, dimethyl chloro-phosphate, methyl mercaptan.

**Packaging:** Methanol is poured into specially designated railway tanks without a bottom discharge device, tank trucks, steel barrels with a capacity of 200 dm<sup>3</sup> according to GOST 13950.

**Transportation:** Methanol is transported by all modes of transport in accordance with the rules for the carriage of goods in force for this type of transport. Transportation of methanol on railways should be carried out only in railway tanks, in barrels — by road.

**Storage:** Methanol is stored in compliance with the rules of storage of flammable and toxic liquids and in accordance with the General Sanitary Rules for Working with Methanol. The guaranteed storage life of technical methanol is six months from the date of manufacture.



## Technical Sodium Nitrate GOST 828-77



**Technical Sodium Nitrate** is applied in the production of reagents, crystal, glass, for metal brazing and welding as well as a nitrogen fertilizer containing 16% of nitrogen as nitrate.

Index indicator	Standard for the brand		
	A		B
	The highest quality category	First quality category	The highest quality category
	Top grade	I grade	
Appearance	White, transparent crystals with a grayish or yellowish tinge		
Mass fraction of sodium nitrate in terms of dry substance,%, no less than	99,8	99,5	99,5
Mass fraction of water, %, no more than	0,5	1,0	0,5
Mass fraction of substances insoluble in water, %, no more than	0,03	0,04	0,03
Mass fraction of chloride salts in terms of NaCl, %, no more than	0,15	0,5	0,3
Mass fraction of oxidizable substances in terms of $\text{NaNO}_2$ ,%, no more than	0,010	0,015	0,2
Mass fraction of iron in terms of $\text{Fe}_2\text{O}_3$ ,%, no more than	0,001	-	-
Mass fraction of chromium in terms of $\text{Cr}_2\text{O}_3$ , no more than	0,0001	-	-

**Note:** in sodium nitrate, intended for retail trade, the indicators of items 4,5,6,7,8 are not normalized, the mass fraction of sodium nitrate in terms of nitrogen should not be less than 16%, the mass fraction of water is allowed not more than 1.7%. For enterprises that produce sodium nitrate of grade B as an end product, the mass fraction of chlorides in terms of NaCl is not more than 0.4%.

**Packaging:** in polypropylene bags with polyethylene liners. Must be stored in a closed warehouse in packed form.

**Transportation:** sodium nitrate is transported in covered railway cars and trucks.

**Storage:** storage period is unlimited.



## Low-density ammonium nitrate Ts 00203068-40:2016



Ammonium nitrate of low density (porous nitrate) is used for industrial purposes.

Specifications	
Physical configuration	Granules of white color or tinted
Mass fraction of ammonia nitrogen and nitrate nitrogen on conversion to $\text{NH}_4\text{NO}_3$ in dry substance, %, no less than	98,5
Mass fraction of water, %, no more than: by Fischer K. method by drying method	0,3 0,2
Content of nitrite	must pass the test by item 4.6
Hydrogen ion exponent (pH) 10 % solution	$4,5 \pm 6$
Bulk density, $\text{g}/\text{sm}^3$	$0,65 \pm 0,75$
Granulometric composition: mass fraction of granules by size more 2,38 mm, %, no more than mass fraction of granules less 0,42 mm, %, no more than	2,5 2,0

**Safety Requirements:** the work with ammonium nitrate of low-density requires observance of individual protective measures in specialized clothing.

**Packaging:** in polypropylene sacks no more than 50 kg, big-bags up to 2 t.

**Transportation:** by all modes of transport, except air transport, in covered transport facilities or in open goods wagon, in accordance with traffic activity regulations, effective for particular kind of transportation.

**Storage:** in covered, dry and clean warehouse, protecting the product from humidification, Storing and transportation are carried out separately from other materials and substances.

## Complex NPK-concentrated fertilizer



**The complex concentrated NPK fertilizer** is made in the form of granules of light shades of various colors, has good physicochemical properties: it does not stick, does not crumble, is not hygroscopic and does not freeze during storage, is not toxic, fire and explosion-proof. Complex concentrated NPK-fertilizer is a complex mixed fertilizer obtained in one technological process containing in its composition phosphates, in well digestible form, ammonia nitrogen and potassium in the form of potassium chloride. Depending on the composition of the original nitrogen-phosphate fertilizer may contain: mono- and diammonium phosphates, mono - and dicalcium phosphates, hydrogen phosphates, magnesium hydro ammonium phosphates, ammonium sulfate.

Name of parameters	Standardized grade	
	1,0:1,0:1,0	0,5:1,0:0,5
Appearance	Granules of light shades of various colors	
Mass share of total phosphates,%	15 +/- 1	24 +/- 1
Mass share of total nitrogen,%	15 +/- 1	12 +/- 1
Mass share of potassium, in terms of K <sub>2</sub> O, %	15 +/- 1	12 +/- 1
Mass share of water, not more, %	2,0	2,0
Granulometric composition:		
mass share of granules:		
from 1 mm to 4 mm, not less, %	95	95
less than 1 mm, no more than, %	10	10
Statistical strength of granules, not less, Mpa (kgf / cm)	3,0 (30)	3,0 (30)
Friability, %	100	100

**Application:** it is used as a highly efficient water-soluble nitrogen-phosphorus fertilizer used in various soils for all crops, it can be used in protected ground conditions, as well as for indoor and balcony floriculture. Complex concentrated NPK-fertilizer is suitable for all methods of application: basic, priossev and for feeding.

**Transportation:** transported in packaged form - plastic, polypropylene, paper bags or bulk.

**Storage:** stored in closed warehouses, excluding the ingress of precipitation and groundwater. The guaranteed shelf life of complex concentrated NPK fertilizer in bulk is 9 months from the date of manufacture of the product. For complex concentrated NPK-packed fertilizer, the warranty period of storage is 24 months from the date of manufacture. The shelf life of complex concentrated NPK-fertilizer is not limited.





## Potassium Sulphate Ts 00203068-48:2016



**Potassium sulphate** is a highly strong potassium fertilizer with minimum potassium content 48%. It is used for agriculture and retail sale as fertilizer.

Used for all crops in any soils, especially effective on light sandy soils under sensitive to chlorine crop. Fertilizer improves the taste of potatoes, fruits and vegetables, increases stability of plant to blasts and diseases, and also increases winter resistance of fruit trees.

Specifications	
Physical configuration	Crystal powder , cream-colored is allowed grayish or reddish tint
Mass share of Potassium sulphate in terms of $K_2O$ , %, no less than	48
Mass share of chlorides, %, no more than	2
Mass share of water, %, no more than	1
Mass share of water-insoluble residue, %, no more than	1

**Safety Requirements:** under normal conditions not combustible, fire and explosion-proof. After product handling, wash the hands thoroughly. When handling the fertilizer observe the individual protection measures.

**Packaging:** by weight of 3 kg, 5 kg packed in polyethylene bags which made of polyvinyl-chloride film and by weight of 25 kg, 30 kg,  $40 \pm 1$  kg in polyethylene sacks.

**Transportation:** transported by all kinds of transport in accordance with the rules of transportation, effective for given kind of transport.

**Storage:** in covered, dry and clean storehouses, protected from moisture, away from heaters, difficult of access for children and pets place, separately from foods and medicines.

Guarantee term of storage: 3 years since the date of manufacturing.

## Superphosphate



**Superphosphate**, complex nitrogen-phosphate fertilizer intended for agriculture and retail trade.

Name of parameters	Standardized grade	
	Enriched	
	1st grade	2nd grade
Appearance	Mixture of granules with grayish powder	
Mass fraction of total phosphates in terms of $P_2O_5$ , %, not less	22 +/- 1	18 +/- 1
The ratio of the mass fraction of water-soluble phosphates to the mass fraction of total phosphates, %	50	50
Mass fraction of nitrogen, %	2,5 +/- 1,0	2,5 +/- 1,0
Mass fraction of free acid in terms of $P_2O_5$ , %, not more than	0,5	0,5
Mass fraction of water, not more, %	2,0	2,0
Granulometric composition:		
mass fraction of granules by size:		
less than 1 mm, not more, %	15	no norm
from 1 mm to 4 mm, not less, %	70	no norm
more than 6 mm, %	1	-
Granule strength, crush strength, Mpa (kgf / cm <sup>2</sup> )	2,5 (25)	2,5 (25)
Friability, %	100	100

**Application:** it is applied in various zones on all types of soil for all types of agricultural products, vegetable, fruit and berry and ornamental crops, it can be used in conditions of protected soil.

**Transportation:** transported packed - plastic bags, polypropylene, polyethylene, paper bags, big bags, containers or in bulk.

**Storage:** stored in closed warehouses, excluding the ingress of precipitation and groundwater. The guaranteed shelf life for agriculture is 6 months, for retail trade it is 12 months from the date of manufacture. Shelf-life Unlimited.



## Suprefos Nitrogen – Sulfur Containing



**Suprefos nitrogen** — sulfur-containing — (N: P: Mg: Ca: S) — the neutral, concentrated, complex mixed nitrogen-phosphorus fertilizer created on the basis of the most valuable phosphoric fertilizer — a precipitate, the ammonium sulfate (containing ammoniac nitrogen and mobile sulfur in the structure) and ammonium phosphates, contains more than 85% of active ingredients: salts of nitrogen, phosphorus, sulfur, calcium, magnesium - evenly distributed in each granule, in available plants to a form.

Name of parameters	Standardized grade	
	A	
	Top grade	1st grade
Content of active substances, not less, %	90	85
Mass share of total phosphates, %	27 +/- 1	24 +/- 1
The content of the mass share of water-soluble phosphates, %	8 +/- 1	6 +/- 1
Mass share of ammonia nitrogen, %	13 +/- 1	12 +/- 1
Mass share of magnesium, in terms of MgO, not less than, %	0,5	0,5
Mass share of calcium, in terms of MgO, not less than, %	12,0	14,0
Mass share of sulfur, in terms of SO <sub>3</sub> , not less than, %	20	25
Mass share of water, not more, %	2,0	2,0
pH of 1% solution, not less than, %	5,5	5,5
Granulometric composition: mass share of granule sizes:		
from 1 mm to 4 mm, not less, %	95	95
less than 1 mm, no more than, %	5	5
less than 6 mm, %	100	100
Statistical strength of granules, not less, Mpa (kgf/cm)	3,0 (30)	3,0 (30)
Friability, %	100	100

**Application:** It is used on all types of soils under all types of cultures, it can be applied in the conditions of the protected soil, and also to room and balcony floriculture. Suprefos it is suitable for all ways of introduction: the basic, bed application, it is characterized by the prolonged validity period.

**Transportation:** It is transported in packed form – plastic bags, polypropylene, plastic, paper bags, big-bens, containers or an embankment.

**Storage:** it is stored in the closed warehouse excluding hit of an atmospheric precipitation and ground waters. Period of storage of a suprefos – is not limited. At the enterprise the system of management according to requirements of the ISO 9001:2008 and O'z DSt ISO 9001:2009 standard is developed, introduced and certified.

## Liquid Urea -Ammonium Mixture (UAN) TSh 6.3-82:2006



Liquid nitrogen fertilizers (UAN) are a nitrogen fertilizer, which contains of urea and ammonium nitrate in liquid state. UAN is designed for use as mineral fertilizer in agriculture.

Using UAN in agriculture has advantages over solid fertilizers. They are having free-flow characteristics, not raise dust and not become cake. Wet weather and even the rain do not have a negative impact on them.

Fertilizers do not contain free ammonia, so they can be applied on the surface under plowing, cultivation or in rows at sowing. UAN can also be used for root feeding.

Specifications	
Fraction of total mass of nitrogen, %	27,0÷33,0
Mass ratio of Urea and ammonium nitrate	0,5÷0,8
Alkalinity in terms of free ammonia, %	0,05÷0,50

**Safety Requirements:** liquid nitrogen fertilizers are not flammable and thermally stable. During operation or use put on gloves, do not eat, drink or smoke. In case of skin contact wash with soap and water. In case of eye contact immediately rinse in plenty of water. When it gets into stomach drink several glasses of slightly pink solution of potassium manganese acidic and cause vomiting. After work wash the hands and face with soap and water, rinse the mouth.

Strictly forbidden to mix with other substances!

**Packaging:** in rail and road tankers, in polymer bottles with capacity up to 3 dm<sup>3</sup>, in canisters with capacity up to 5 dm<sup>3</sup> on customer's request in container of customer up to 100 dm<sup>3</sup>.

**Transportation:** in railway tankers in accordance with the rules of transportation, effective for given kind of transport.

**Storage:** keep in a cool, dry, and difficult of access for children place and away from foods.

**Guarantee term of storage:** 6 months.



## Water soluble polymer, uniflok



### Basic physical and chemical properties

Name	Parameters
Bulk density, g / cm <sup>3</sup>	1,0 ÷ 1,2
MPC in water, mg / dm <sup>3</sup>	2,0
Fire and explosion hazard	Not flammable, not explosive
Physical properties	It is soluble in water, non-toxic, acts as a weak alkali

### Technical Specifications

Name	Standards
Appearance	Powder yellowish, creamy or pink
Mass fraction of water,%, not more than	10
Mass fraction of insoluble residue,%, not more than	5
Bulk density, g/cm <sup>3</sup>	1,0 ÷ 1,2
Characteristics of the clay solution with the addition of the drug "Uniflock" mass fraction of 0.5%:	
Conventional viscosity, s, not more	30
Water loss per 30min., cm <sup>3</sup> , not more	7
pH of the filtrate, not more than	10
Clay crust thickness, mm	1,0 ÷ 1,5
The value of daily sludge,%	0 ÷ 1

**Application:** Water soluble polymeric preparation "Uniflok" is used:

- As an effective stabilizer of industrial drilling fluids when drilling wells;
- As a coagulant for cleaning sugar syrups, industrial effluents;
- As a flocculant in thickening of ore pulps and in agriculture;
- As a soil builder.

**Packaging and storage:** The drug "Uniflok" is packaged in double plastic bags of 30 kg. Transport marking of the container with the application of the handling sign "Keep away from moisture." Warranty period of storage — 2 years from the date of production.

Transportation: It is transported by any kind of transport.

## Formalin technical GOST 1625-89



**Formalin** is an antiseptic, disinfectant, astringent, deodorizing and cauterizing agent; causes the coagulation and fixation of proteins.

### Basic physical and chemical properties

Name	Parameters
Molecular mass	30.03
Density (depending on the concentration of formaldehyde and methanol), kg / m <sup>3</sup>	1110–1120
Boiling point (37%), oC	99
Specific heat, KJ / kg K.	2.5

### Technical Specifications

Name	Standards		
	FM		FBM
	Top grade	First grade	
Appearance	Colorless clear liquid. During storage, the formation of a turbid or white precipitate, soluble at a temperature not exceeding 40° C, is allowed.		
Mass fraction of formaldehyde,%	36.9–37.5	36.5–37.5	36.5–37.5
Mass fraction of methanol,%	4–8	4–8	not more than 1
Mass fraction of acids in terms of formic acid,% not more than	0.02	0.04	0.02
Mass fraction of iron,% not more than	0.0001	0.0005	0.0001
Mass fraction of residue after calcination,% not more than	0.008	0.008	0.008

**Application:** It is used in metallurgy, in the oil and petrochemical industries and in fur production, in agriculture.

**Packing and storage:** Technical formalin of the FM brand is poured into rail tank cars with aluminum or nickel-free stainless steel boilers, tank trucks or packed in the following containers:

- Wooden flooded barrels;
- Aluminum drums;
- Polyethylene bottles;
- Polyethylene canisters with a capacity of up to 20 dm<sup>3</sup>

Guaranteed period of formalin technical brand FM — 3 months from the date of manufacture

**Transportation:** Formalin technical brand FM is transported by rail or road in accordance with the rules of transportation of goods.



## Phospho-Urea Ts 00203068-28:2015

**Phospho-urea** is mixed fertilizer, formed by mechanical mixing of nitrogen fertilizer - urea and phosphorus fertilizer-ammonophos. In combination with phosphate fertilizers the urea is especially effective in application for acidic and non-acidic soils. It is recommended to use phospho-urea as a main effective nitrogen-phosphorus fertilizer of prolonged acting or in feeding for all crops and vegetables in different soils; phospho-urea can be used for non-root feeding of vegetable and fruit crops, and also can be used for late fertilizing of wheat to increase protein content in the grain

Specifications	
Mass fraction of total nitrogen (N), %, no less than	40
Mass fraction of total phosphates in terms of P <sub>2</sub> O <sub>5</sub> , %, no less than	3.5

**Safety Requirements:** by degree of impact on human body, it is referred to 3rd class of hazard, its non-combustible, fire and explosion-proof. Observe the measures of individual protection: special clothing, boots, and rubber knitted gloves, respirator, cotton-gauzed and gas masks.

**Packaging:** in polyethylene bags and sacks of 25, 40 kg.

**Transportation:** in bulk and packed by agreement with consumer, by all kinds of transport in accordance with the rules of transportation, effective for given kind of transport.

**Storage:** in covered, dry and clean storehouses, protected from moisture, mudding and mechanical damage of container. Guarantee term of storage: 6 months since the date of manufacturing. For retail trade the guarantee term of storage – 2 years since the date of manufacturing

## Crystalline Sodium Chlorate GOST 12257-93

**Sodium chlorate crystal** is used for the production of liquid chlorate-magnesium defoliant of chlorine dioxide used in bleaching of pulp tissue and disinfection of water and as a herbicide.

### Specifications

Index indicator	Standards
Mass fraction of sodium chlorate, %, not less	99.5
Mass fraction of water, %, not more	2.3
Mass fraction of chlorides in terms of NaCl, %, not more	0.3
Mass fraction of sulphates (SO <sub>4</sub> ), %, not more	0.01
Mass fraction of chromates (CrO <sub>4</sub> ), %, not more	0.02
Mass fraction of insoluble in water substances, %, not more	0.01
Mass fraction of iron (Fe), %, not more	0.005

**Application:** sodium chlorate - is used to obtain defoliants, chlorine dioxide, used in the bleaching of cellulose, fabric and water neutralization, as well as a herbicide.

**Packaging and storage:** solid sodium chlorate is packed in bags, with inserts made of polyethylene film embedded in drums according to GOST 5044 of galvanized steel, polyethylene sealed. In coordination with the customer, it is allowed to pack solid sodium chlorate in plastic bags M10 – 0,220 according to GOST 17811. The product weight in a bag is 50 kg. Warranty period of storage - six months from the date of manufacture.

**Transportation:** transported in covered rail transport in accordance with shipping rules, valid for this mode of transport and how to ensure the safe transport of dangerous goods. Solid sodium chlorate (without packaging) transportation by railway transport in special tanks (fittings)

## Pharmaceutical Industry

### Agency on Development of Pharmaceutical Industry

The Agency is a state organization that is responsible for the pharmaceutical industry of the entire Republic. The agency unites about 150 enterprises for the production of medicines, diagnostic tools, medical devices.

The Agency includes the following organizations:

- State Unitary Enterprise "Uzmedimpeks" - carrying out the purchase of pharmaceutical products;
- The State Center for expertise and standardization of medicinal products, medical devices and medical equipment - responsible for the registration of pharmaceutical products;
- Uzbek Chemical and Pharmaceutical Research Institute;
- Tashkent Research Institute of Vaccines and Serums;
- Research Institute "Eastern Medicine".

More than 2,370 items of local pharmaceutical preparations are manufactured in the republic, including antibiotics, infusion and injection drugs, ointments, tablets, capsules, etc.

## Export Potential

The Agency on Development of Pharmaceutical Industry analyzed the export activities of pharmaceutical enterprises of the republic and determined the forecast for the export of medicines and medical products of 39 pharmaceutical enterprises in 2018 and the forecast amounted to 39 million 585.2 thousand US dollars.

16 pharmaceutical enterprises have a drug registration in 6 foreign countries. Among them, 13 enterprises are manufacturers of medicines and 3 enterprises are manufacturers of medical devices. Overall, 219 names of medicines and 15 names of medical devices were registered in foreign countries. Currently, 182 pharmaceutical preparations are in the process of the registration in 9 foreign countries.







## INFUSION PREPARATIONS

### SODIUM HYDROGEN CARBONATE SOLUTION FOR INFUSIONS 100-500 ML

Used to fill the lack of fluid in the body and in a complex of intensive care measures; As a solvent for other compatible medicines. Can be used locally for wound cleansing, eyes, nasal mucosa, as well as catheters and transfusion systems.



### SODIUM CHLORIDE 100-500 ML SOLUTION FOR INFUSIONS

Used to fill the lack of fluid in the body and in a complex of intensive care measures; As a solvent for other compatible drugs. Can be used locally for cleansing wounds, eyes, nasal mucosa, as well as catheters and transfusion systems.



### METRONIDAZOLE 100 ML SOLUTION FOR INFUSIONS

Recommended for the treatment of infections caused by microorganisms sensitive to the preparation:

- prevention and treatment of anaerobic infections in surgical interventions, mainly on the organs of the abdominal cavity and urinary tract;
- combined therapy for severe mixed aerobic-anaerobic infections;
- severe form of intestinal and hepatic amebiasis;
- sepsis;
- peritonitis;
- osteomyelitis;
- gynecological infections
- abscesses of the small pelvis and brain;
- abscessive pneumonia;
- gas gangrene;
- infection of skin and soft tissues, bones and joints



**SOLUTION FOR INJECTIONS****NOVOCAINE 0.5% SOLUTION FOR INJECTIONS**

Local anesthesia: infiltration, conductive, epidural and spinal, vagosympathetic and paranephalic blockade, potentiation of the action of anesthesia in general anesthesia, pain syndrome of various genesis, spasms of blood vessels.

**CALCIUM GLUCONATE SOLUTION FOR INJECTIONS 10%**

Used for diseases accompanied by: hypocalcemia, increased permeability of cell membranes, impaired conduction of nerve impulses in muscle tissue. In the complex therapy of bleeding of various etiologies; Allergic diseases, bronchial asthma





### LIDOCAINE HYDROCHLORIDE 1% AND 2% SOLUTION FOR INJECTION

All types of local anesthesia, prevention and treatment of ventricular rhythm disturbances associated with the acute phase of myocardial infarction.



### GLUCOSE 40% SOLUTION FOR INJECTION

Hypoglycemia, hypoglycemic coma, hypovolemia, dehydration, shock, collapse, intoxication, preparation of drug solutions



## SOLUTION FOR INJECTIONS

### MAGNESIUM SULFATE SOLUTION FOR INJECTION 25%

Hypertensive crisis, myocardial infarction, eclampsia, encephalopathy, hypomagnesemia, incl. Prevention, increased demand for magnesium, acute hypomagnesemia, convulsive syndrome



### DIMEDROL 1% SOLUTION FOR INJECTION

The drug is prescribed for the treatment of urticaria, hay fever, vasomotor rhinitis, angioedema, itching dermatoses, acute iridocyclitis, allergic conjunctivitis and other allergic complications from taking various medications, including antibiotics





### ASCORBIC ACID 5% SOLUTION FOR INJECTION

Hypovitaminosis C, hemorrhagic diathesis, bleeding infection, intoxication, liver disease, sluggishly healing wounds, ulcers, bone fractures, dystrophy, increased physical and mental stress.



### ANALGIN SOLUTION FOR INJECTIONS 50%

Pain syndrome of small and medium intensity of various origin and localization, hyperthermal syndrome, febrile conditions, renal and hepatic colic.



**BFS SYSTEM SOLUTION FOR INJECTIONS****GLUCOSE 40% SOLUTION FOR INJECTIONS**

Compensation of a lack of carbohydrates in the body, correction of dehydration due to vomiting, diarrhea, in the postoperative period. Detoxification infusion therapy. Collapse, shock (as a component of various blood-substituting and anti-shock fluids). It is also used for the preparation of medicine solutions for injection

**ASPARCAM SOLUTION FOR INJECTIONS**

Deficiency of potassium and magnesium in the body. It is used as a part of complex therapy for coronary heart disease, ventricular extrasystole (including myocardial infarction), heart rhythm disorders due to potassium and magnesium deficiency in the body, intolerance or toxic effect of digitalis preparations, shock conditions of various genesis.





## SODIUM THIOSULFATE 30% SOLUTION FOR INJECTIONS

When the compounds are poisoned with arsenic, mercury, lead (non-toxic sulphites are formed), hydrocyanic acid and its salts (less poisonous rhodanous compounds are formed), iodine and bromine salts. In complex therapy for allergic diseases, neuralgia, with diabetic polyneuropathy, arthritis.



## WATER FOR INJECTION SOLUTION

For the preparation of sterile solutions of medicinal and diagnostic cures intended for subcutaneous, intramuscular or intravenous injection.



**BFS SYSTEM SOLUTION FOR INJECTIONS****SODIUM CHLORIDE ISOTONIC 0.9% SOLUTION FOR INJECTIONS**

Dissolution and dilution of medicines. Sodium and chlorine ions are the most important inorganic components of the extracellular fluid, supporting the corresponding osmotic pressure of blood plasma and extracellular fluid.

**NOVOCAINE 0.5% SOLUTION FOR INJECTIONS**

Local anesthesia: infiltration, conductive, epidural and spinal, vagosympathetic and paranephalic blockade, potentiation of the action of anesthesia in general anesthesia, pain syndrome of various genesis, spasms of blood vessels.



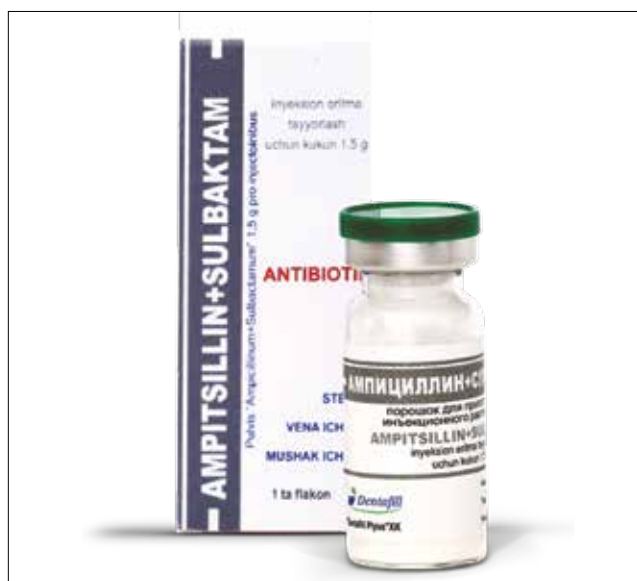




## DRY WASTES

### "AMPICILLINUM + SULBACTAMUM" 0.75G AND 1.5G POWDER FOR PREPARATION OF INJECTION SOLUTION

The drug is a semisynthetic antibiotic of the beta-lactam group, cephalosporin III generation, has a bactericidal effect. The medicine is prescribed for the treatment of infectious diseases caused by susceptible strains of microorganisms



### CEFTRIAXONE SODIUM 0.5 G AND 1.0 G POWDER FOR PREPARATION OF INJECTION SOLUTION

Semisynthetic antibiotic group of beta-lactams, cephalosporin III generation. The medicine is prescribed for the treatment of infectious diseases caused by susceptible strains of microorganisms



### CEFOTAXIME 0.5 G AND 1.0 G POWDER FOR PREPARATION OF INJECTION SOLUTION

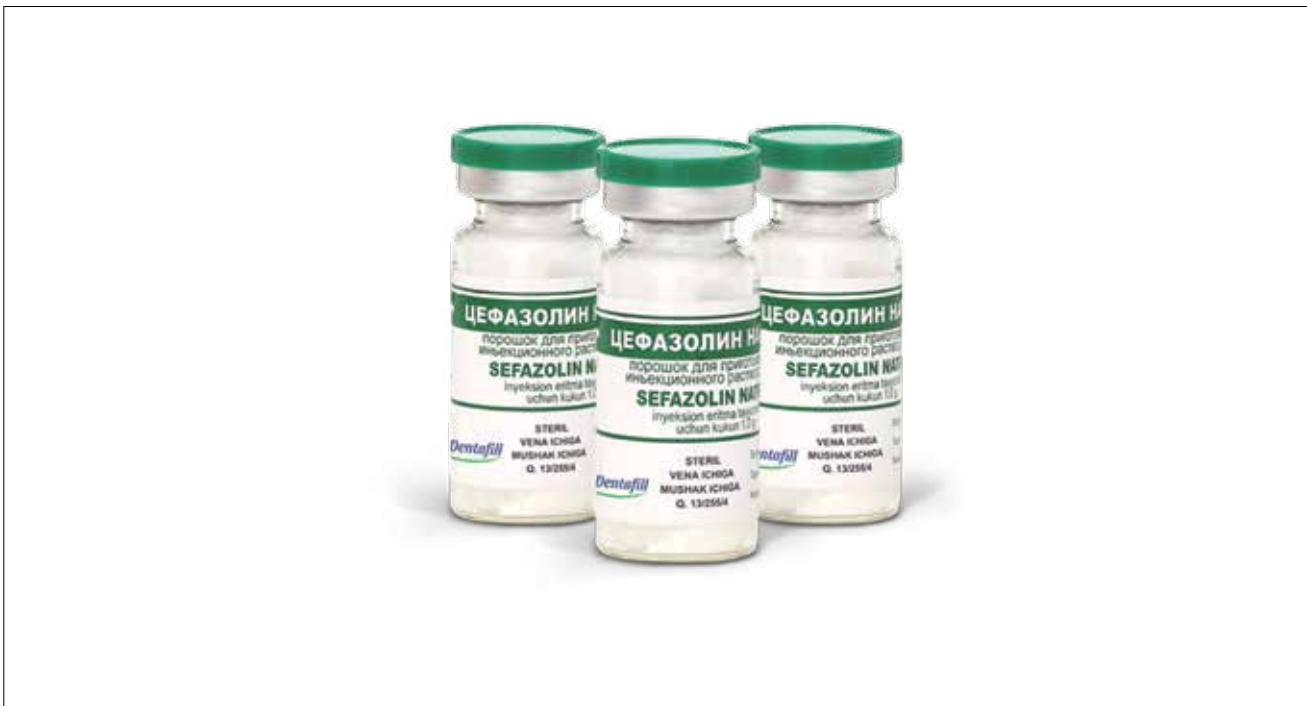
The drug is a third generation cephalosporin antibiotic. It is used to treat infectious and inflammatory diseases caused by sensitive microorganisms.



## DRY WASTES

### CEFAZOLINUM SODIUM 0.5 G AND 1.0 G POWDER FOR PREPARATION OF INJECTION SOLUTION

The drug is one of the main cephalosporin antibiotics of the first generation. Treatment of infectious-inflammatory diseases caused by microorganisms sensitive to the preparation.



### "CEFOPERAZONUM + SULBACTAMUM" 1.0 G POWDER FOR PREPARATION OF INJECTION SOLUTION

Cefoperazone is a cephalosporin antibiotic of the third generation, it acts bactericidal, has a wide spectrum of action. Sulbactam is an irreversible inhibitor of beta-lactam.





## LATEX GLOVES

### LATEX STERILE SURGICAL GLOVES

Surgical gloves are designed to protect the patient and medical worker from mutual infection during surgical operations.



### LATEX NON-STERILE INSPECTION GLOVES

Inspection gloves are designed for everyday use during medical examination and diagnosis, as well as performing procedures in an out-patient care.





## EYE DROPS



### TIMALOL

- primary open-angle glaucoma;
- secondary glaucoma (uveal, aphakic, post-traumatic);
- congenital glaucoma (with ineffectiveness of other therapeutic measures);
- sharp increase in ophthalmotonus
- primary angle-closure glaucoma (in combination with miotics).



### CYPROFLOXACIN 0.3% EYE DROPS

Infectious diseases of the eye and its appendages caused by bacteria sensitive to the drug: acute and subacute, conjunctivitis, blepharoconjunctivitis, blepharitis, preoperative prophylaxis in ophthalmic surgery, treatment of postoperative infectious complications.



### LEVOMYCETIN 0.25% EYE DROPS

Levomyctin is a broad-spectrum antibiotic, effective against many Gram-positive and Gram-negative bacteria.



## CAPSULE PREPARATIONS

### OMEPRAZOLE 20 MG CAPSULES

NSAID gastropathy;  
gastric ulcer and duodenal ulcer;  
gastroesophageal reflux disease;  
hypersecretory states; - acute pancreatitis;  
eradication therapy of *Helicobacter pylori* in infected patients with gastric ulcer and duodenal ulcer (as part of combination therapy).



### GINKGO BILOBA 40 MG CAPSULES

Dyscirculatory encephalopathy of different genesis, manifested by disorders of attention and / or memory, decreased intellectual abilities, fear, sleep disturbance: consequences of a stroke, cranial trauma, involutive disorders, Raynaud's syndrome. Neurosensory disorders.



### FLUCONAZOLE 50, 150 MG CAPSULES

Treatment of candidiasis of the mucous membranes (including the oral cavity and pharynx, esophagus, non-invasive bronchopulmonary candidiasis, candiduria), skin candidiasis; generalized candidiasis (including candidemia, disseminated candidiasis), invasive candidal infections of the peritoneum, endocardium, eyes and urinary tract



#### Contacts:

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## Electrotechnical Industry

### Association "Uzeltehsanoat"

The Association of Enterprises of the Electrotechnical Industry of Uzbekistan (Association "Uzeltehsanoat") was established in 2019 on the basis of the joint stock company "Uzeltehsanoat".

The branch of the radio-electronic, electrotechnical industry and instrumentation plants is one of infrastructural branches of Uzbekistan.

At the moment, the association's companies produce more than twenty types of household appliances, including air conditioners, microwave ovens, mini-ovens, gas and electric cookers, televisions, refrigerators, mobile phones, built-in appliances, vacuum cleaners, hoods, small household appliances, etc. , cable and conduction products, as well as a wide range of kitchen extracts and electric water heating tanks of accumulative type.

### Export Potential

Products are export to many countries, including the Russian Federation, Ukraine, Belarus, Kazakhstan, Kyrgyzstan, Afghanistan, Tajikistan, Turkmenistan, Azerbaijan, Armenia, Georgia, the Baltic States, China, Iran and others. Companies belonging to the association are continuously expanding the export and export zone and discovers new markets and countries.

The quality management system at the enterprises is certified by the Swiss company SGS in accordance with the requirements of ISO 9001-2008. The Russian certificate of conformity and the fire safety certificate for power and control cables also certify the products.



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## Artel Apetito 50 Gas range

### Technical Specifications

Power supply	220V/50Hz
Cooktop burners electric ignition	through button
Oven electric ignition	
Cooktop gas supply control	
Oven gas supply control	
Thermostat	
Number of cooktop gas burners, pcs.	4
Oven capacity, l	65
Electric oven lighting	
Oven convection	
Electric broiling rack	
Storage drawer	
Nickel-plated oven wire racks, pcs. Pan, pcs.	0
Mechanical timer	2
Digital timer	
Oven thermometer	
Oven heater indicator	+
Dimensions (H x W x D), mm	850x500x600



## Artel Apetito 10-G Gas range

### Technical Specifications

Power supply	220V/50Hz
Cooktop burners electric ignition	through button
Oven electric ignition	
Cooktop gas supply control	
Oven gas supply control	
Thermostat	
Number of cooktop gas burners, pcs.	4
Oven capacity, l	65
Electric oven lighting	
Oven convection	
Electric broiling rack	
Storage drawer	
Nickel-plated oven wire racks, pcs. Pan, pcs.	0
Pan, pcs.	2
Mechanical timer	
Digital timer	
Oven thermometer	+
Operation indicator of electric burner	
Oven heater indicator	
Dimensions (H x W x D)	850 x 600 x 600



## Artel MD 3618 E Mini Oven



### Technical Specifications

Oven capacity, l	36
Upper heater, kW	0,7
Lower heater, kW	0,7
Power, kW	1,4
Number of heating modes	3
Baking mode	s
Simultaneous heating of two heaters	s
Temperature settings, C'	up to 300 °C
Mechanical cooking timer (buzzer)	up to 90 min
Convection	*
Automatic safety shut-off	S
LED indicators	s
Illumination lamp	*
Baking pan height adjustment	s
Casing material	Steel 08U
Enameled rectangular tray	1 pc
Deep rounded tray	s
Grid	+
Overall dimensions (H x W x D), mm	345 x 545 x 415
Dimensions, with package (H x W x D), mm	355 x 555 x 465
Weight, kg	12

## Artel MD 3612 L Mini Oven



### Technical Specifications

Oven capacity, l	36
Upper heater, kW	0,7
Lower heater, kW	0,7
Power, kW	1,45
Number of heating modes	4
Baking mode	s
Simultaneous heating of two heaters	s
Temperature settings, C*	up to 300 °C
Mechanical cooking timer (buzzer)	up to 90 min
Convection	s
Automatic safety shut-off	s
LED indicators	s
Illumination lamp	s
Baking pan height adjustment	s
Casing material	Steel 08U
Enameled rectangular tray	2 pc
Deep rounded tray	s
Grid	s
Overall dimensions (H x W x D), mm	345 x 545 x 415
Dimensions, with package (H x W x D), mm	355 x 555 x 465
Weight, kg	14





## Artel Art-5910M Oven

### Technical Specifications

Oven capacity, l	59
Stainless steel casing	+
Maximal temperature, °C	250
Display	+
Control type	mechanical
Voltage	230 V, 50 Hz
Total energy consumption, kW (max)	2,8
Timer	+
Electric oven lighting	+
Nickel-plated oven grid	+
Pan	+
Deep pan	+
Thermostat	+
Turbofan	+
Grill	+
Convection	+
Oven indicating lamp	+
Overall dimensions (H x W x D), mm	595 x 595 x 540
Dimensions, with package (H x W x D), mm	655 x 645 x 655
Weight, kg	32,2



## Artel 17036 Cooktop

### Technical Specifications

Build - in surface type	gas
Power supply	230 V, 50 Hz
Total energy consumption, kW	
Gas pressure - natural gas (methane), Mbar (max)	20
Gas pressure- condensed gas (propane, butane), Mbar (max)	30
Housing material	stainless steel
"Gas control" feature	'
Electric ignition	'
Number of gas burners, ea	4
Number of electric burners, ea	
Power of left front burner, kW	3,0
Power of right front burner, kW	1,0
Power of left rear burner, kW	1,8
Power of right rear burner, kW	1,8
Power of left rear electric burner, kW	
Six heat levels of electric burner	
Electric burner indicating lamp	
Overall dimensions (H x W x 0), mm	510 x 580 x 85
Dimensions, with package (H x W x D), mm	630 X 630 X 120
Weight, kg	7



## Artel Art-0361 Glass Hood



### Technical Specifications

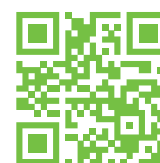
Engine power, W	250
Number of engines, ea.	1
Motor casing	metal
Capacity, m3/hr	700
Lighting	2x2 W, LED
Filter type	BAFFLE filter
Number of filters, ea.	1
Type of control	sensory
Number of Speed levels	3
Overall dimensions (H x W x D), mm	560 x 600 x 500
Dimensions, with package (H x W x D), mm	465 x 670 x 585
Non-return valve	+
Air duct diameter, mm	150

## Art LED Curved C9000 65



### Technical Specifications

Aspect ratio	16:9
Input for antenna and cable TV: (DVB-T/C) / (DVB-S/S2)	1/1
ATV video formats support	PAL / SECAM
DTV video formats support	MPEG-2 H.264
Audio Output Power, W	2x10+2x15
Audio output for headphones	+
Screen resolution, px	UHD 3840x2160
HDMI Input/output, pcs	4
USB input	2
PVR - recording of digital broadcast	+
TimeShift (live pause)	V
Composite AV input	mini AV
Component Input (Y/Pb/PR)	+
DigitalAudio output	Optical
Built-in Digital Tuner	DVB-T/T2
Built-in satellite tuner	DVB-S / S2
Number of colors	1.07 Billion
VGA input	X
Automatic search and channels tuning	+
Parental control	+
Clock and on/off timer	+
Power supply	110-240V; 50/60Hz
Standby power consumption, W	<0,5
Maximum power consumption, W	275
Remote control	IRDA port + Magic re-mote
Net weight, kg	46
Gross weight, kg	61
Dimensions (H x W x D), mm	915 x 1466x236
Dimensions with package (H x W x D), mm	1100x1645x395



## Collection Glass Series

### Technical Specifications

Model	Glass
Productivity (max)	1330 m <sup>3</sup> /3
Number of speeds	3
Full power consumption	2 x 40 Vt
Total power consumption	200 Vt
Weight (not more than)	11 kg
Noise level (not more than)	56 Db
Glass	60 x 50 x 60 sm



## Slider Series

### Technical Specifications

Model	Slider
Productivity (max)	600 m <sup>3</sup> /cu
Number of speeds	3
Full power consumption	165 Vt
Weight (no more)	9 kg
Noise level (no more)	56 Db
Slider	60 x 47 x 19 sm
Glass	60 x 50 x 60 cm



## Flat Inox Series

### Technical Specifications

Model	Flat INOX
Productivity (max)	1330 m <sup>3</sup> /час
Number of speeds	3
Освещение	2 x 20 Vt
Full power consumption	290 Vt
Weight (no more)	11 kg
Noise level (no more)	58 Db
Flat INOX Width / depth / height	60 x 50 x 70 cm



## Water Heater Tank VITECH 50 L



### Technical Specifications

Model	Vitech 50 L
Type	accumulative
Executions	vertical
Hot water volume	50 liter
Version	Cylinder
Power	1,5 kVt
Internal tank	steel
Internal tank coating	glass enamel
Mass	20 kg
Sizes	376 x 735 mm

## Water Heater Tank VITECH 80 L



### Technical Specifications

Model	Vitech 80 L
Type	accumulative
Executions	vertical
Hot water volume	80 liter
Version	Cylinder
Power	1,5 kVt
Internal tank	steel
Internal tank coating	glass enamel
Mass	25 kg
Sizes	450 x 750 mm

## Water Heater Boiler VITECH 100 L



### Technical Specifications

Type of instalation	Wall
Electric heater power	1,5 kVt
Heat exchanger power	24 kVt
Tank material	Stainless steel
Capacity	100 l
Weight (no more)	50 kg
Sizes	459x925 mm
Покрытие внутреннего бака	стекло эмаль
Масса	25kg
Размеры	450 x 750 mm

## Gas Water Heater VITECH 10 L

### Technical Specifications

Model	Vitech 10L
Nominal heat power	20 kWt
Productivity	10 l/m
Type gas	natural
Gas pressure (min)	1,3 k
Nominal gas consumption per hour	1 m <sup>3</sup> /k
Water pressure (min)	20 kP
Type of approach of communication	lower
Control functions	mechanical
Functions	Adjustment of flame, water
Operating mode	winter/summer
Autopodig	2 batteries type D, 1,5 V
Display of water temperature	GK
Weight (no more)	9 kg
Gas column	35X61X16 sm



## Electric Engine 3

### Technical Specifications

Description	Electric engine
Manufacturing capacity (max)	560 m <sup>3</sup> /hour
Power	250 W
Manufacturer	Turkey, Italy



## Panel Radiator



Durable  
High-tech  
Aesthetic

High compressive strength of 33 mm with optimum pitch  
Emtas panel radiators are manufactured using the latest technology with modern automatic control on a fully automated welding line and tested 100%.  
Aesthetic appearance with a smooth surface, protected from dust, easy to clean..

### Technical Specifications

Sizes 300-400-500-550-600-900 mm  
The length varies from 400 mm to 3000 mm





## B640-CE (BLACK)



## Technical Specifications

Main characteristics	- Explanation
Burners and grills	- Explanation
Top grilles	- Round casting
Back Type	- Enamel
Type of gas	-Lpg/ Ng
Flame failure device	-Available
Number of plates	-0
Back Amount	- Standard 4
Coffee pot	-No
Type of burner	- Pool

## B1140



## Technical Specifications

Main characteristics	- Explanation
Burners and grills	- Explanation
Top grilles	- Round casting
Back Type	- Enamel
Type of gas	- Lpg / Ng
Flame failure device	-Available
Number of plates	-0
Back Amount	- Standard 4
Coffee pot	-No
Type of burner	- Pool

## BE11-LD



## Technical Specifications

Basic	Features explanation
Location	-0 + 11 Touch
Control	- panel type White glass board
Pen type	- Efta
Color of the pen	-Inox
Front glass design	- Standard white
Burners and grills	- explanation
Turbo Fan	-Available
Thermostat	-Available
Fan	-Available
Chicken grill	-No
Tray for wire mesh	-2 Tray 1 Grid
Lattice	-Available
Control panel	- explanation
Oven Lamp	-Available
timer	- Digital timer
Model	- of steering wheel to touch

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**CHARACTERISTICS**
**7w**


Model:	A60-7
Light flow:	500 lm 5%
Light temperature:	6500 k
lm / W:	100
CRI Ra:	>80
Voltage:	100-240
Current:	58mA
Frequency:	50Hz


**CHARACTERISTICS**
**7w**


Model:	A60-7
Light flow:	500 lm 5%
Light temperature:	6500 k
lm / W:	100
CRI Ra:	>80
Voltage:	100-240
Current:	58mA
Frequency:	50Hz


**CHARACTERISTICS**
**10w**


Model:	G60-10
Light flow:	500 lm 5%
Light temperature:	6500 k
lm / W:	100
CRI Ra:	>80
Voltage:	100-240
Current:	58mA
Frequency:	50Hz


**CHARACTERISTICS**
**10w**


Model:	A60-10
Light flow:	500 lm 5%
Light temperature:	6500 k
lm / W:	100
CRI Ra:	>80
Voltage:	100-240
Current:	58mA
Frequency:	50Hz

## Mobile package transformer substation with a capacity of 1000, 1 600 kVA for a voltage of 35/6(10) kV

Mobile package transformer substation for 35/6(10) kV is designed to receive, transform, and distribute three-phase alternating-current electric power of 50 Hz commercial frequency.



### Technical Specifications

Parameter name	Value
Rated voltage on the high-voltage side, kV	35
Rated voltage on the low-voltage side, kV	6 (10)
Rated capacity, kVA	1000, 1600
Frequency, Hz	50
Rated current of the main circuits, A	630
Short-time thermal current, at a lead	20
Short-time electrodynamic current, kA	50
Overall dimensions, mm	11800x5500x6300
Climatic category and placement category	U1

## Block-modular buildings for industrial package transformer substations

The modular building is equipped with artificial and natural ventilation, heating, lighting, and fire-alarm systems. Depending on the size and layout of the KТПP series industrial package transformer substation, it is possible to produce a building from one or more module blocks where either all industrial package transformer substation switchboard is fixed or in the form of transport..



### Technical Specifications

KТПP auxiliaries voltage, V	- 380
Lighting network and alarm system V	- 220
Wall outlet circuit voltage, V	- 12 -r 42
Wall outlet AC circuit voltage, V	- 220
Overall dimensions of one module block, m	
width	2250÷3000
height	3250÷3450
length	6750÷7200

## RGP-220 series outdoor horizontal rotary disconnecter for 220 kV



The outdoor horizontal rotary AC disconnecter of RGP-220/1250(1600, 2000) NF1 series with SRCJ2 and SRCs type drives is designed for closing and opening electrically dead high-voltage electric circuit sections as well as for interruption of open-circuit currents of transformers and Climatic category is UKhL (temperate and cold weather) according to GOST 15150 (NF according to IEC); placement category is 1 according to GOST 15543.1 for disconnectors with protection rating of IP00 according to GOST 14254-96.

Single-pole, two-pole and three-pole versions of RGP-220 series disconnectors are manufactured with longitudinal arrangement of the poles (keel-type). The following versions of RGP-220 series disconnectors are manufactured: RGPZ-I-220/I 600 NF1, with one grounding blade on the master column side;

RGPZ-2-220/1600 NF1, with two grounding blades;  
RGP-220/1600 NF1, without grounding blades.





## Devices complete distribution on voltage 35 kV of the K-65 series

The K-65 series switchgear is designed for receiving and electric power distribution of three-phase AC power frequency 50 Hz for a voltage of 35 kV



High safety in operation is ensured by:

Reliable blocking from improper actions of maintenance personnel. Automatic shutters, protecting the service personnel from accidental contact with live parts under voltage.

The possibility of grounding any section of the main circuits by means of permanently installed earthing switches.

## Complete switchgear 6 (10) kV outdoor installation series K59

Complete switchgear 6 (10) kV outdoor installation KRU K59 series is intended for reception and distribution of electric energy of a variable three-phase current of industrial frequency 50 (60) Hz voltage 6 (10) kV, rated current 630-1600 A, is made in the version of the UI-temperate and CLI-cold climate, is a a separately standing block of high-voltage cells with a control corridor.



For lowering substations without developed RU-6 (10) Kv, stand-alone cabinets of auxiliary needs with voltage transformers (TN) of the type NAMIT can be supplied.

KPY K59 is applied:  
as part of KTPB  
as a switchgear - 6 (10) kV.  
KPY K59 is used:

in oil, gas, coal and metallurgical industry: in the energy sector;  
in distribution networks of the energy complex; in agriculture;  
for the needs of industrial enterprises; for city and municipal networks.



## Installations of capacitor type UKL (P) for voltage 6 (10) kV

The units are designed to increase the power factor of electrical equipment industrial enterprises and distribution networks with a voltage of 6 (10) kV frequency of 50Hz.



with a voltage of 6 (10) kV frequency of 50Hz.  
the upper value of the ambient air temperature is 40 °C;  
the lower operating value of the ambient air temperature is minus 45 °C;  
the average operating temperature of the ambient air for 24 hours is not more than 30 °C, for a year - not more than 20 °C;  
the upper operating value of the relative humidity is not more than 90% at a temperature of 25 °C;  
average annual operating value of relative air humidity - not more than 80% at a temperature of 15 °C; - upper operating value of air pressure - 800 mm Hg;  
the lower operating value of air pressure is 650 mm Hg;  
the environment is non-explosive, does not contain aggressive gases and vapors in concentrations that destroy metals and insulation

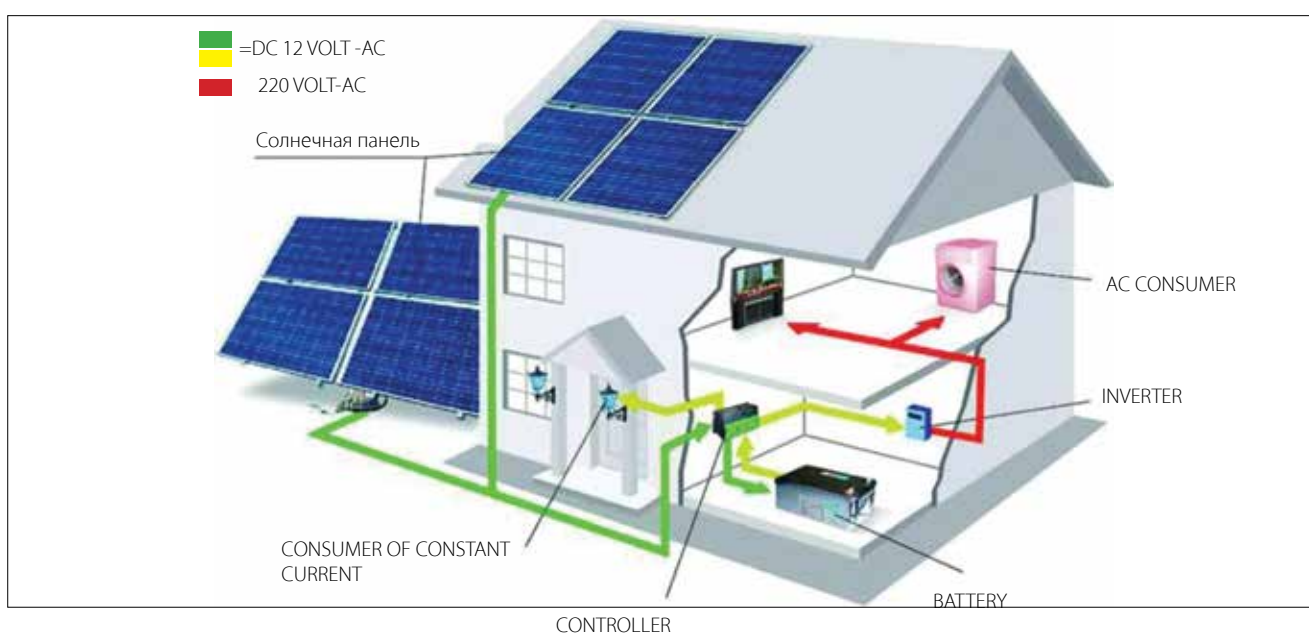


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COMPANY FE LLC "Toshelektroapparat" as evidence in Uzbekistan formed favorable investment climate, an effective system of guarantees to protect the rights and interests of foreign investors, is one of the leading in the country and in the region, a modern, dynamic and high-tech manufacturing enterprises of electrotechnical industry. To date the brand "Toshelektroapparat" it is known not only in Uzbekistan, but also far beyond. Significant achievements in the development, production and promotion of high quality products FE LLC "Toshelektroapparat" owes a lot to its experience in the market, the invaluable human resource potential and high-tech equipment. The company operates on the basis of the former parent company of Research and Production Association "Sredazelektroapparat" having a rich historical tradition in the development, production and sales of electrical products since 1941.

## Photovoltaic power supply stations (FES)

The photovoltaic power supply station (FES) converts the energy of sunlight (ultraviolet) into electricity and stores it in storage batteries. FES can be used not only in sunny weather, but also with overcast, and also at night.



### FES consists of the following components:

- **Photoelectric module** — converts the energy of daylight (ultraviolet) into electrical energy.

In photovoltaic modules use the properties of semiconductors based on silicon crystals. For various applications, photovoltaic modules are connected in parallel, in series or in combination. At the same time, the area for installing photovoltaic modules can range from several square meters to several hectares.

- **Battery charge controller** — monitors the charge and discharge of batteries. The charge controller is an integral part of the FES, on which not only the system's efficiency depends, but also the efficiency of converting sunlight into electricity. The two most common types of charge controller are PWM and MPPT.
- **Accumulator battery** — accumulates electricity and smoothes voltage drops due to changes in illumination.

The accumulator is an integral part of the FES and serves to accumulate electricity and return it at night and with a lack of solar energy (for example, in cloudy weather). It is the capacity of the accumulator batteries that determines the maximum time of autonomous operation of the FES.

- **Inverter** — converts direct current to alternating current. Electric appliances in our homes use alternating current, and solar panels produce a constant current, so the inverter is one of the main components of the FES. The industry produces two types of inverter pulse and low-frequency transformer.





## Complete transformer substations block 20-220 kV for electric grid and traction power supply

Complete transformer substations of block type upgraded are designed for receiving, converting and distributing electric energy of three-phase alternating current with a frequency of 50 Hz at nominal voltages of 220,110, 35, 27.5, 20,10 (6) kV. Block-type transformer substations of KTPB are used::

- on the 220,110 and 35 kV side of the network substations;
- for power supply of mining, oil and gas fields;
- for power supply to industrial consumers;
- for traction substations;
- for municipal consumers;
- for large-scale construction;
- for agricultural areas;
- at power plants (under appropriate conditions);
- and at many other sites.

The complete transformer substations of the modular 220,110, 35, 27.5 kV have specific features that minimize the costs for the entire service life of the products:

- The substations reliably work on all typical electrical connection schemes in the country, and orders are accepted according to schemes different from the standard ones
- stage-by-stage expansion and development from simple to more complex schemes is possible without additional works on reconstruction and interruptions in consumer nutrition;
- substations are equipped with high-voltage equipment throughout the range of CIS countries, as well as the nomenclature of foreign firms, including ABB, Siemens, etc. ;
- Short installation time due to the simplicity and compactness of the structures of the units with mounted auxiliary circuits and the presence of larger units ready for installation;
- commissioning of the facility in a short time; use in mobile substations 35 kV sledges as a foundation, and as a means of transporting the substation for short distances.





JSC "Chirchik transformer plant" more than 80 years successfully operated at the market of machine building, with producing of power transformers and unitized transformer substations of voltage class 10,35,110 and 220 kV, with power from 25 to 63000 kVA and execute repair of different difficulty power transformers of voltage class to 500 kV included, with power to 125000 kVA. To date company «Chirchik transformer plant» - is leading enterprise of electrical industry of the Republic of Uzbekistan, Central Asia and CIS, it is modern, high technology enterprise with fully formed traditions in the area of quality, completed with highly skilled staff of specialists, with high degree of reliability.



## TMZ Type Oil Immersed three phase sealed Distribution Transformers

Three-phase, double-winding, sealed, power transformers of type TMZ-25+2500/6 (10) U1,3 and TMZ-25+2000/6 (10) T1,3 with natural oil cooling, with off-circuit tap-changing (PBV). Produced for the countries with the temperate (U) and tropical (T) climate with ambient temperature from -45°C up to +40°C for climatic execution U and from -10 °C up to +55°C for climatic execution T. Windings are made in an aluminum and copper variant..

description	vaille						
	25	40	63	100	160	250	400
Rated power, kVA	25	40	63	100	160	250	400
Rated high voltage, kV	11,0; 10,0; 6,6; 6,3; 6,0; 3,3; 3,0			10,0; 6,0			
Rated low voltage, kV	0,4; 0,23; 0,24			0,4			
Climatic execution	U1;T1,3			U1			
Vector group and connection scheme	Y/Yh-0				Y/Yh-0		
Short circuit voltage, %	4,5						
Design-technical documentation	Tsh 11 05-042 : 2000						
Total weight, kg	278	457	500	665	860	1225	1660
Notice	without PBV		PBV ±5% for KRU, KTPS, GKTP			PBV±2x2,5% for KTPs and GKTP	

description	value		
	630	1000	
Rated power, kV A	630	1000	
Rated high voltage, kV	6,0, 10,0		
Rated low voltage, kV	0,4; 0,69		
Climatic execution	Y1,3		
Vector group and connection scheme	Д/Уh-II; Y/Yh -0		
Short circuit voltage, %	5,5		
Design-technical documentation	Tsh 11 05-042 : 2000	GOST 16555-75	
Total weight, kg	2145	2370	3180
Notice	PBV ±2x2,5% for KTPs and GKTP		

description	value	
	1600	2500
Rated power, kVA	1600	2500
Rated high voltage, kV	6,0; 10,0	
Rated low voltage, kV	0,4; 0,69	
Climatic execution	Y1,3	
Vector group and connection scheme	ДЛH-11	
Short circuit voltage, %	6,0	
Design-technical documentation	GOST 16555-75	
Total weight, kg	4635	6860
Notice	PBV ±2x2,5% flanged execution for KTP	





## TM type oil immersed three phase distribution transformers for general applications

Power, three-phase, double-winding transformers of type TM-25-r630/6 (10) 1П with natural oil cooling, with off-circuit tap-changing (PBV). Produced for the countries with the moderate (U) and tropical (T) climate with difference of temperatures (-450 +40°C) for climatic execution U - and (-10° +55°C) for climatic execution T.

description	value			
Rated power, kV-A	25	40	63	100
Rated high voltage, kV	3; 3,3; 6,0; 6,3; 10,0; 11,0			
Rated low voltage, kV	0,4			
Climatic execution	Y1			
Vector group and connection scheme	Y/Zh-11; Y/Yh-0			
Short circuit voltage, %	4,5			
Design-technical documentation	Tsh 11 05-019 : 2000			
Total weight, kg	397	482	495	650
Notice	Without PBV (no-load tap-changer)		PBV+5%	

Rated power, kV A	160	250	400	630
Rated high voltage, kV	10,0; 6,0			
Rated low voltage, kV	0,4		0,4; 0,69	
Climatic execution	U1			
Vector group and connection scheme	Y/YH-O	Y/YH-O	Δ/YH-II; Y/YH-O	
Short circuit voltage, %	4,5		5,5	
Total weight, kg	820	1280	1690	2410
Notice	PBV± 2x2,5%		PBV±2x2,5%, PBV±5%	

Power, kVA	L, mm	B, mm	H, mm
25	1030	440	1090
40	1030	440	1246
63	1100	530	1400
100	1100	600	1600
160	1100	840	1600
250	1400	800	1850
400	1420	820	1970
630	1760	1050	1930



## TM type three phase double-winding distribution transformers with PBV on HV-side

TM type three-phase, double-winding, oil transformers, with natural cooling, with a regulation range  $\pm 5\%$ , are intended for voltage transformation to networks 35 kV. Produced for the countries with a temperate climate (U) and tropical climate (T) with temperature of ambient air from  $-45$  up to  $+40^{\circ}\text{C}$  for climatic execution U and  $-10$  up to  $+50^{\circ}\text{C}$  for climatic execution T..

description	vaille		
Transformer type	TM		
Rated power kVA	25	100	160
Rated high voltage, kV	35		
Rated low voltage, kV	0,4		
Climatic execution	Y1		
Vector group and connection scheme	Y/YH-0		
Short circuit voltage, %	6,5		
Total weight, kg	610	1040	1365

Transformer type	TM	
Rated power, kVA	250	400
Rated high voltage, kV	35	
Rated low voltage, kV	0,4	
Climatic execution	Y1	
Vector group and connection scheme	Y/YH-0	
Short circuit voltage, %	6,5	
Total weight, kg	1720	2105

Power, kVA	L, mm	B, mm	H, mm
25	1040	730	1300
100	1200	840	1605
160	1300	860	1780
250	1400	930	1845
400	1460	960	2015





## TMN and TMNP type three phase doublewinding transformers with RPN on HV-side

TMN and TMNP type three-phase, double-winding, oil transformers, with natural oil cooling, with voltage regulation under loading (RPN), with a regulation range  $\pm 4 \times 2,5\%$  are intended for voltage transformation in the power networks 35 kV. Transformers made for the countries with a temperate and cold climate with ambient temperature from  $-60$  to  $+40^\circ\text{C}$  for climatic execution UHL and  $-45^\circ$  to  $+40^\circ\text{C}$  for climatic execution U.

description	vaille				
	1000	1600	2500	4000	6300
Rated power, kV A	1000	1600	2500	4000	6300
Rated high voltage, kV	35				
Rated low voltage, kV	11; 6,3				
Vector group and connection scheme	Y/Δ-11				
No-load losses, kW	2,1	2,9	4,1	5,6	8,0
Short circuit lossess, kW	11,6	16,5	23,5	33,5	46,5
Short circuit voltage, %	6,5			7,5	
Short circuit current, %	1,4	1,3	1,0	0,9	0,8
Oil weight, kg	1320	1640	2270	2650	3300
Total weight, kg	4700	5405	8265	10650	13590
Transport weight, kg	4700	5000	6894	7880	9915
Climatic execution	U1, H11				

Rated power, kV A	2500		4000		6300	
Rated high voltage, kV	35					
Rated low voltage, kV	11; 6,3					
Vector group and connection scheme	Yh/Δ-11					
Short circuit voltage, %	6,5			7,5		
Weight, kg	Transport	7700		9418		11505
	Total	9145		11498		14995
Notice	*-mobile, on the sleds					





## TU 1 6-705.450-87

### Technical characteristic

Grades MG — 10... 500 mm<sup>2</sup>;  
 Grades MGE — 240... 1000 mm<sup>2</sup>.  
 Structural length of wires:  
 grades MG — 250... 2000 m;  
 grades MGE 100 — 250 m.  
 MG and MGE wires' life is 10 years.

## GOST 2584-86

### Technical characteristic

Admissible temperature of con-tact wires:  
 MF — 95 IN;  
 N101 0.04F-110 IN.  
 Permissible wire voltage:  
 IF-117,7 Ipa;  
 N101 0.04F-127,4 Ipa.  
 Specific wire re-sistance:  
 IF — 0,017710-6 Ihm.i;

## GOST 839-80

### Construction and materials

CGrades and structures of non-insulated wires:  
 I — copper stranded twisted wire.  
 A — aluminium stranded twisted wire.  
 AN — steel-aluminium twisted wire.

## TSh 64-05755737-131:2007

### Technical characteristic

Number of cores and diameter of current conduction core-  
 1\*4\*1,2  
 Mutual capacitance- no more than 47 nF/km  
 Immunity of the circuits on the far end of the factory length by  
 550 kHz- no less than 60 dB/km  
 Breaking strength of the cable- no less than 60 kgF  
 Factory length of the cable- no less than 750 m  
 Transient attenuation — no less than 53 dB/km

## GOST 6436-75, GOST R 51312-99

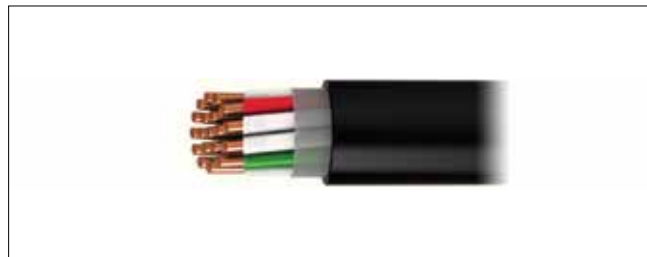
### Technical characteristic

Insulation resistance no less than 5000 MOhm. km  
 Mutual capacitance of:  
 single core no more than 150 NF/km;  
 twisted pair no more than 100 NF/km.  
 Core resistance no more than 28,8 Ihm/km.

## TSh 64-05755737-125:2005

### Technical characteristic

Number of pairs in cables from 10 to 600.  
 Diameter of lead of cable — 0,4 mm or 0,5 mm.  
 Electric resistance of lead insulation no less than 8000  
 IOhm.km. for 80% of values, no less than 6500 IIm.km  
 for 100% of values.  
 Mutual capacitance at the frequency 800 Hz — 45 +-8 nF/km.





## TSh 64-05755737-128:2013

### Technical characterise

Number of cores in cable — 2.  
 Section of cable cores — 0.9 mm.  
 Mutual capacitance of main circuit, no more — 51 nF/km.  
 Admissible force of cable tension on laying no more than 25 kg force.  
 Service life of cables no less than 10 years.



## GOST 1508-78

### Technical characteristic

Number of cores in cables — 4, 5, 7, 10, 14, 19, 27, 37 pieces.  
 Core sections in cables:  
 AKVVG; AEAAbOa; AKVGE — 2.5 mm<sup>2</sup>  
 KVG; KVbShv; KVG; 1, 0; 1, 5; 2, 5 mm<sup>2</sup>  
 KVG; AKVG-4, 0 mm<sup>2</sup>  
 Admissible continuous cores heating temperature is not 70° N.



## TU 16-705.077-79

### Technical characteristic

Quantity of the cores-1 piece  
 Core cross-section in the wires- from 2,5 to 300 mm<sup>2</sup>  
 Factory length of the wires- no less than 100 m  
 Wires lifetime- no less than 5 years



## GOST 11326.8-79

### Technical characteristic

Admissible radius of cable bending during the erection no less than 20 external diameters.  
 Service life of cable no less than 8 years.



## TU 16-505.129-82

### Technical characteristic

Operating temperature of the cable (by rewinding, round-trip operations)  
 from minus 40 up to 90 0C  
 Insulation resistance- no less than 1200 MOhm/km  
 Lifetime period- no less than 5,5 year



## GOST 6285-74

### Technical characteristic

Resistance of lead for the length of 1 km  
 No more than 90 lhm for wire with core diameter 0,5 ii  
 No more than 35 lhm for wire with core diameter 0,8 ii  
 No more than 50 lhm for wire with core diameter 0,7 ii  
 Wire insulation should be cold resistant. Factory length of the wire no less than:  
 Lifetime period: 1 year

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## INSULATED FLEXIBLE COPPER WIRE

### ELECTRICAL CHARACTERISTICS:

Maximum resistance of the conductor per 1 km of length, Ohm: for the period of reception and delivery:

445.0 — for the section 0.04 mm<sup>2</sup>;<U>

3,4 — for the section 6.0 mm<sup>2</sup>;<U>

1,2 — for the section 16,0 mm<sup>2</sup>; for storage and operation:<U>

534,0 — for 0,04 mm<sup>2</sup> in the section;<U>

4.1 — for 6.0 mm<sup>2</sup> in section;<U>

1.44 — for 16.0 mm<sup>2</sup> in the section;<U>

Permissible current load, A:

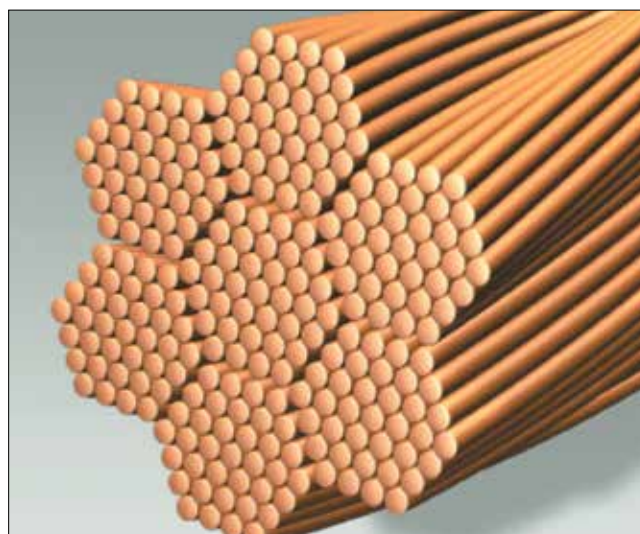
1.15 — for 0.04 mm<sup>2</sup> in the section;<U>

75.0 — for 10.0 mm<sup>2</sup> in the section.<U>

The wire must be annealed after twisting.

Insulation resistance at 200 C, MOhm/ km — not less than 1

PRIMARY PRODUCTION ASSORTMENT



## HIGH-FREQUENCY SCREENED STRUCTURED CABLE IN POLYETHYLENE INSULATION AND POLYETHYLENE SHELL WITH A ROPE

### STATEMENT:

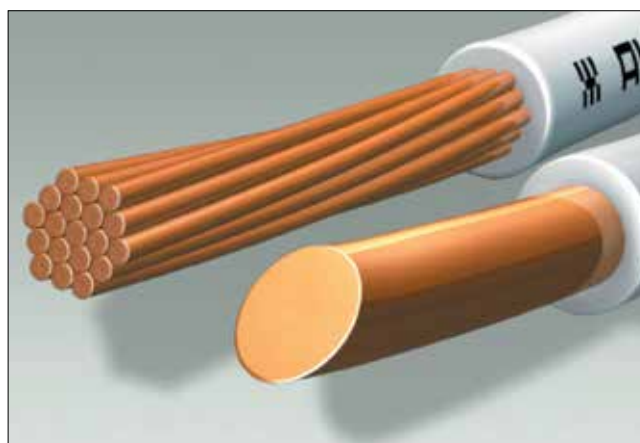
The cables KSVPP 5e and KSVPPe 5e are designed for outdoor installation, for operation in the frequency range up to 100 MHz (category 5e according to ISO / IEC 11801). The cable is designed for outdoor installation, for stretching between supports or buildings at a distance of up to 100 m to connect segments of a category 5e cabling system (in accordance with ISO / IEC 11801) in the frequency range up to 100 MHz

### BUILDING:

Conductor — stranded conductor made of flexible copper wire of 5e class of flexibility  
Insulation — made of high-density polyethylene.

Wrap — made of Mylar tape

Shield only for KSVPPe 5e and KSVPPeT) — Made of The shell is a PVC compound. Black color  
Steel zinc-plated rope — only for KSVPPeT 5e



## WIRE WITH COPPER CONDUCTOR AND INSULATION FROM PVC

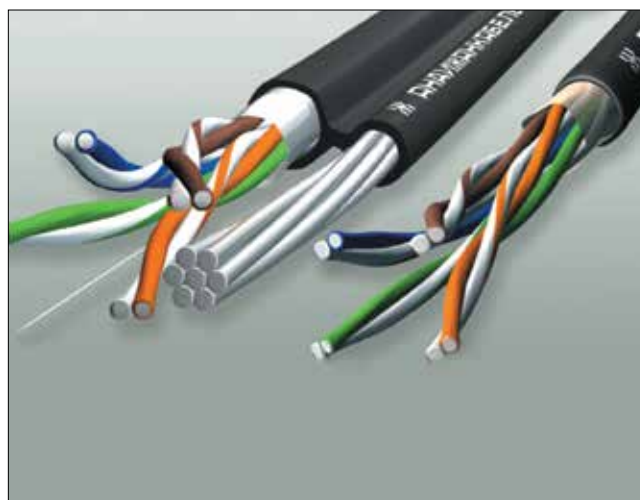
### STATEMENT:

The wire is intended for power plants for stationary installation in lighting and power supply systems, as well as for stationary installation of electrical equipment, apparatus, machinery and machines at rated voltage up to 450 V (for 450/750 V networks) and frequency up to 400 Hz or DC voltage up to 1000 V .

### BUILDING:

Conductor — Strong conductor made of flexible copper wire (for PuV) and stranded flexible copper conductor (for PuGV)  
Insulation — PVC insulating compound.

Color — white, gray, yellow, orange, red, pink, blue, green, brown, black, purple and yellow-green (for solid conductors up to 6 mm<sup>2</sup> in section).





## SELF-EXTENDED INSULATED WIRE, DESIGNED FOR ELECTRIC TRANSMISSION LINES.



### STATEMENT:

The SIP-2 wire is intended for power lines (TL), for rated voltages up to 0.6 / 1 kW inclusive, and for OHL line branches in the air atmosphere.

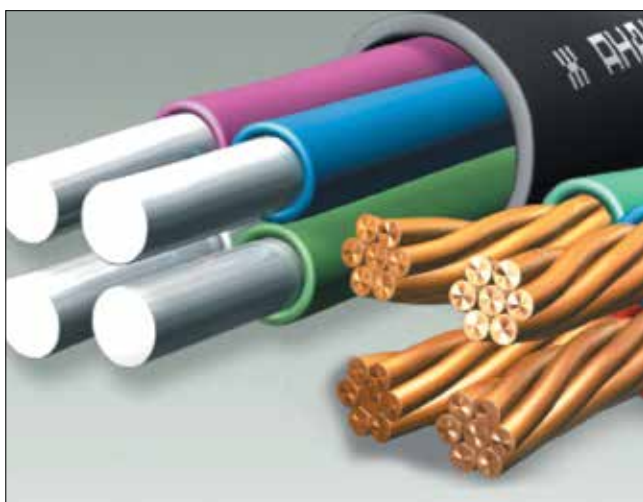
SIP-4 wire is designed for TL branches at rated voltage up to 0.6 / 1 kW inclusive, for input, for installation along walls of buildings or structures

### BUILDING:

The phase conductor is a stranded annular compacted aluminum conductor

Support conductor (for SIP-2 only) — Aluminum alloy stranded sealing ring conductor Insulation of conductors — Easily stabilized cross-linked polyethylene.

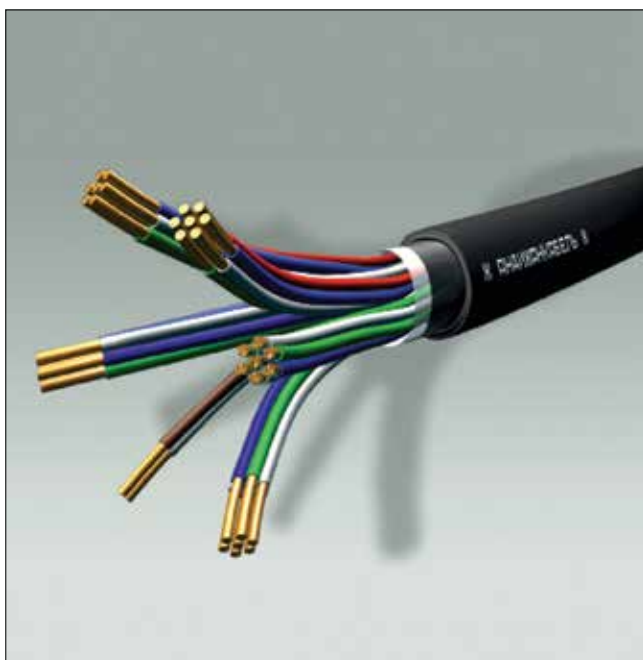
## GRIDES AND PROTECTIVE FENCES



Mesh woven of steel, is used to separate the material by its size; reinforcement and shielding of surfaces; filtering; drying; dehydration, etc.

\* Manufacturing of nets is possible from such materials as: stainless steel, brass, copper, galvanized steel, bronze, nickel and other alloys. It is possible to manufacture grids according to the size of the customer.

## SIGNAL BLOCK CABLE WITH COPPER HOUSING AND POLYETHYLENE INSULATION IN POLYETHYLENE SHELL.



### STATEMENT:

The cable is designed for installation in plastic pipelines, in the ground, in an aggressive environment without mechanical impact on the cable (for SBZPU — in high humidity conditions)

### BUILDING:

Conductor — Flexible copper wire with a diameter of 0.9 or 1.0 mm Insulation of conductors — Insulating composite high pressure polyethylene (HPPe)



## WIRE WITH COPPER CONDUCTOR AND INSULATION FROM PVC

### STATEMENT:

Transmission and distribution of electrical power at fixed installations with a normal alternating voltage of 0.66 and 1 kV.

### BUILDING:

The conductor is a round conductor made of flexible aluminum (for AVVG) and flexible copper wire (for BBG).



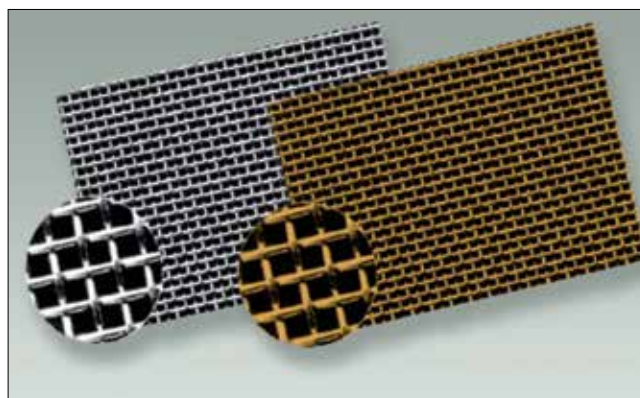
## HOUSEHOLD WIRE

### STATEMENT:

The wire is intended for use during repair, installation and operation of power lines under voltage up to 250 V.

### BUILDING:

The conductor is a solid copper conductor (for PPBN, PUNP), solid aluminum conductor (for APUNP, APPBN), stranded copper wire twisted from flexible copper wires (for PUGNP).



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## AVVG



### Construction:

Conductor: Aluminum, mono-conductor or stranded conductor, form rounded or sectored.  
 Insulation: PVC  
 Sheath: PVC

### Technical characteristics:

Temperature of exploitation: from  $-50^{\circ}\text{C}$  till  $50^{\circ}\text{C}$  • Air humidity till 98%, while temperature till  $35^{\circ}\text{C}$   
 Rated frequency — 50 Hz  
 Serviceability — more than 30 years  
 Power cable AVVG is intended for transferring and assessing electrical energy in stationary connection for up to 1000 V of alternating current at 50 Hz frequency.  
 Can be cabled in dry and wet production places, in blocks and in open air.  
 Not recommended to lay in ground. AVVG cable doesn't spread flame if cabled solely.

## AVBbSHv AVBbSHvng



### Construction:

Conductor: Aluminum (1st and 2nd class)  
 Insulation: PVC • Wrapping: PVC straps • Armor from steel straps  
 Winding: PET  
 Tube: PVC

Power cable AVBbSHv is intended for transferring and assessing electrical energy in stationary connection for up to 1000 V of alternating current at 50 Hz frequency. Can be cabled in dry and wet production places, in blocks and in open air. Not recommended to lay in ground. AVBbSHv cable doesn't spread flame if cabled solely.

## PVS



### Construction:

Conductive core  
 Insulation  
 Sheath  
 Wire with winded conductors, PVC insulation, PVC sheath, for voltage 380 V for systems 380/660 V. Does not spread flame. Wires are persistent for mold fungi. Serviceability — not less than 10 years.  
 Wire with flexible copper conductors, intended for connecting electrical devices and domestic equipment to electrical lead, for electrical machines and house repairing tools, washing machines, refrigerator, gardening equipment and extension cord.



## PUGNP

### Construction:

Conductor — soft copper wire

Insulation — PVC plasticate

Sheath — PVC plasticate

Serviceability — not less than 15 years

Wires are used for static cabling in light leads at rated voltage 250 V with alternating current and frequency 50 Hz, for assembling and connecting domestic electrical devices with low current to electrical lead (250 V, 50 Hz), for repairing issues also. Cable does not spread flame when laid solely.



## KVBbSHveng

### Construction:

Conductor — copper

Insulation — PVC plasticate •Screen-aluminum

Inner sheath — PVC plasticate with low flammability

Armor — two galvanized steel tapes

Sheath — PVC plasticate with low flammability

### Technical characteristics:

KVBbSHveng is mainly used lay in places where mechanical damages are possible and to provide fire security of cable chains when laid in bunch. Control cables with copper conductors, plastic insulation, in PVC sheath are meant for static connections with electrical devices, equipment, which have rated alternating voltage till 660 V frequency 100 Hz or constant voltage till 1000 V.



## A

### Construction:

Aluminum wire

Serviceability — 45 years

Wires are intended for transferring electrical energy through the power lines. Wires are exploited on land with temperate and frigid climate.





## Copper wire of MM, MT types



The wire corresponds to Ts 24474056-001:2014 "Copper round electrical wire. Specifications»

**Application:**

It is intended for the manufacture of conductors of wires, cables, cords and other electrical purposes, manufactured for the needs of the national economy and for export

## Wires of brands A and AC



The wires correspond to GOST 839-80 "Uninsulated wires for overhead transmission lines. Specifications »

**Application:**

Are intended for transmission of electric energy in air electric networks

**Terms of Use:**

Operating conditions: at an ambient temperature of 400 C to -60°C.





## Wires of SIP-1 st, SIP-2st, SIP-4 grades

The wire corresponds to Ts 24474056-001:2014 "Copper round electrical wire. Specifications»

### Application:

It is intended for the manufacture of conductors of wires, cables, cords and other electrical purposes, manufactured for the needs of the national economy and for export

### Terms of Use:

At an ambient temperature of plus 5 ° C to plus 40 ° C



## Copper wire of MM, MT types

The wire corresponds to Ts 24474056-001:2014 "Copper round electrical wire. Specifications»

### Application:

It is intended for the manufacture of conductors of wires, cables, cords and other electrical purposes, manufactured for the needs of the national economy and for export

### Terms of Use:

At an ambient temperature of plus 5 ° C to plus 40 ° C.





## Wires of marks nB1, nB3, AI1B, AIHIB, nnB



Wires comply with GOST 6323-79 "Wires with polyvinylchloride insulation for electrical installations Specifications" Certificate of Conformity No. Uz.SMT.01.311.1691437, valid until 19.10.2017.

### Application:

They are used for electrical installations for stationary installation in lighting and power networks, as well as for mounting equipment, machines, mechanisms and machines for rated voltage up to 450 V (for networks up to 450/750 V) with frequency up to 400 Hz or DC voltage up to 1000 V

### Terms of Use:

Designed for operation at an ambient temperature of minus 40

## The wire of grade I1BC



The wire complies with GOST 7399-97 "Wires and cords for rated voltage up to 450/750 V Specifications" Certificate of Conformity No. Uz.SMT.01.311.1691438, valid until 19.10.2017.

### Application:

Are intended for connection of electric cars and devices of household and similar application to an electric network by nominal alternating voltage up to 380V for systems 380/660V.

### Terms of Use:

At an ambient temperature from minus 250 C to plus 400 C.



## Power and control cables non-propagating combustion ВВГнг, АВВГнг, КВВГнг, АКВВГнг

The cables correspond to Ts 24474056-003: 2015 "Power and control cables, non-propagating combustion Technical specifications"

Certificate of Conformity No. Uz.SMT.01.311.1798204, valid until 12.08.2018.

### Application:

Primary area of application:

For group laying of cable lines in cable structures and indoor (closed) electrical installations.

### Terms of Use:

At an ambient temperature of plus 50° C to -50° C



## Power cables of marks ВВГ, АВВГ, АПВГ

Cables comply with GOST 16442-80 "Power Cables with Plastic Insulation Technical Specifications"

Certificates of conformity

\ No. UZ.SMT.01.302.1654797, valid until 02.06.2017;

No. Uz.SMT.01.311.1691439, valid until 19.10.2017;

No. Uz.SMT.01.311.1717280, valid until 12.11.2017.

### Application:

Designed for transmission and distribution of electrical energy in stationary installations for a rated alternating voltage of 0.66; 1 kV frequency 50 Hz

### Terms of Use:

At an ambient temperature of plus 50° C to -50° C, relative air humidity up to 98% at temperatures up to 35 ° C, including for outdoor installation





## Cables power with plastic insulation in accordance with GOST 31996-2012



AVVG — power cable with aluminum core, with polyvinyl chloride insulation and sheath.

VVG — power cable with a copper core, with PVC insulation and sheath.

ABББШВ — power cable with aluminum core, with insulation and protective hose made of polyvinylchloride plastic, with armor of two steel tapes

ВББШВ — power cable with a copper core, with insulation and protective hose made of polyvinylchloride plastic, with armor of two steel tapes

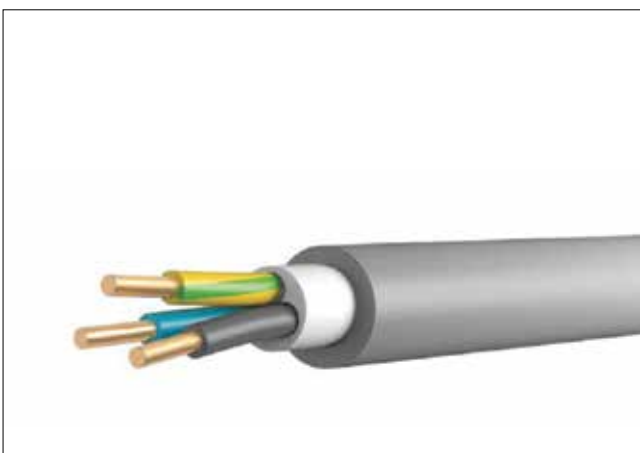
## Installation wires for water-immersion electric motors



ВПП — Runway - installation wire for water immersed motors with polyethylene insulation in a polyethylene sheath

ВПВ — an installation wire for water-immersed; electric motors with polyethylene insulation in a shell made of polyvinyl chloride plastic..

## Cables power NYM



NYM — power cable with copper conductor, with insulation and sheath made of PVC, with filling of the space between the cores.

## Uninsulated wires for VLE Uninsulated wires in accordance with GOST 839-80



A — uninsulated wire, twisted from aluminum wire.

AC — non-insulated wire, twisted from aluminum wire around the supporting steel core.

M — uninsulated wire twisted from copper wire.

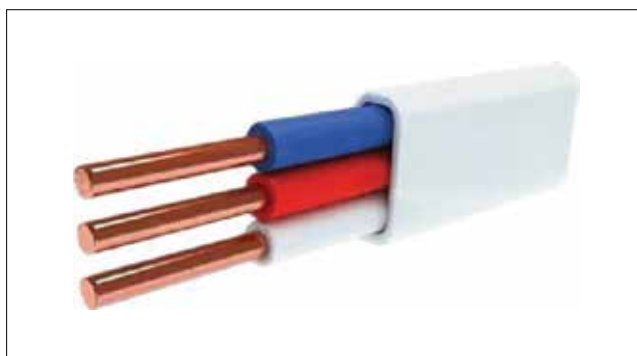
## Copper wire

MM (A) — copper annealed wire.  
 MT (R) — unfermented copper wire.



## Wires for household use

PUN — wire with PVC insulation with a copper core  
 APUN — wire with polyvinyl chloride insulation with aluminum core  
 APUNP — wire with PVC insulation and sheath, with aluminum conductors, flat  
 PPPP — wire with PVC insulation and sheath, with copper conductors, flat  
 ППБН — copper veins, with a separating base, flat  
 APPBN is a wire with polyvinyl chloride insulation, with aluminum conductors, with a separation base, flat.



## Copper twisted wire

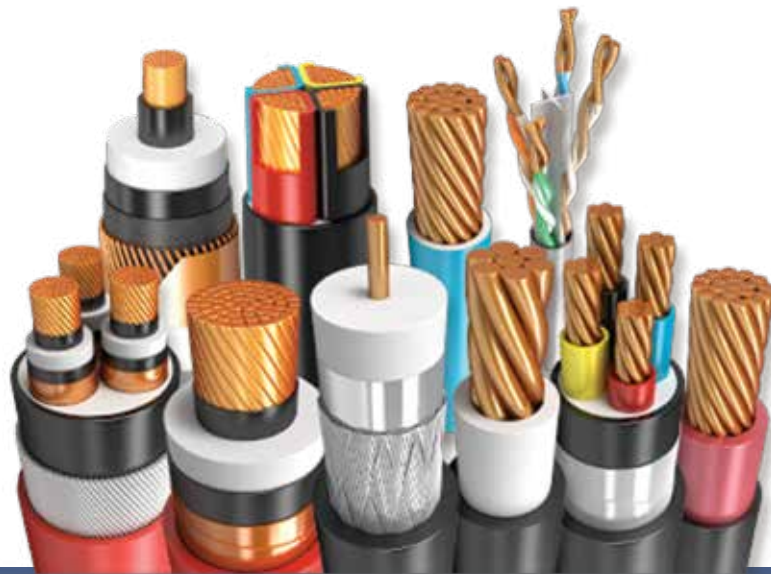
Cu-OF-A — twisted wire from soft copper (tempered)  
 Cu-OF-R — twisted wire from solid copper (not otohenny).



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The plant is producing following types of cables. Power cables for stationary wiring with XLPE insulation voltage 110 and 220kV Poser cables for various designs for stationary wiring XLPE 10, 20 and 35 kV. Power cables and wires of various designs with voltage 1 KV, with copper and Aluminium conductor, with cross-section up to 1000 mm<sup>2</sup> inclusive Self- Supporting insulated wire (SSIW).



2XSY, A2SXY, 2XSY FR-LS, A2XSY FR-LS, 2XS2Y, A2X2Y, 2XS(F)2Y,  
A2XS(F)2Y, 2XS(FL)2Y, A2XS(FL)2Y, 22XSB2Y, 2XS(F)B2Y.



Stranded Copper Conductors



Flexible Wires



Control Cables and Wires



Communication and Data Cables



Extra HV Cables



Co-Axial Cables

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Tel.: (+99891) 3331014, (+99891) 3341458, (+99890) 9767449  
Fax: 79 2200060  
[www.hayatpowercable.uz](http://www.hayatpowercable.uz)



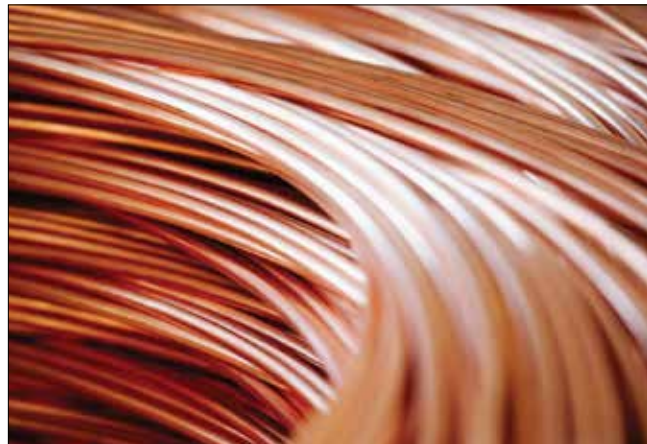
Joint Venture Limited Liability Company «YUQORICHIRCHIQ METALL INVEST» is a completely new venture for the production of copper bars created on the territory of the Republic of Uzbekistan.

To date, the company installed equipment can produce different sizes of copper bars of copper grade M00K up to 400 tons per month.



## Wire rod

Wire rod is made of copper cathodes mark MOOK for the subsequent process manufacture of copper tires..



## ShMTV - copper solid copper tires of oxygen-free copper

The tire made of oxygen-free copper is distinguished by its high quality, due to the passage of copper alloy of strict multilevel control on manufacturer. This is an excellent plasticity and resistance to hydrogen sickness (cracks, pores and void formed by the interaction of hydrogen and copper oxide and remaining in the ingot). Manufactured according to the standard GOST 434-78. Copper cathodes of the brand MOOK are used for manufacturing



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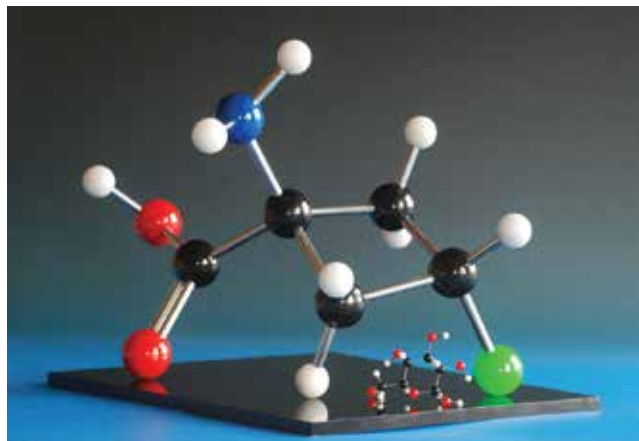
### PRODUCTION OF EDUCATIONAL-LABORATORY EQUIPMENT

A total of more than 900 items equipment and supplies for offices chemistry, physics, biology, mathematics, pre-prescription preparation of educational institutions of Uzbekistan.

### PRODUCTION OF EDUCATIONAL-LABORATORY EQUIPMENT

Over 16 years of training and laboratory own production is equipped with:

- 12 thousand cabinets secondary schools
- 7,5 thousand offices professional colleges and academic lyceums



### ACTIVITIES

Manufacturing of motorbikes Motorcycles «ELDOSH» EL-200 NEW MODEL!.



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The presence of the anode socket - the presence on the flange / nut of the place for fixing the anode and its diameter. There are heating elements without mounting under the anode, and there is a threaded fastening for the anode thread sizes M4, M5, M6, M8 (most common), according to the shape of the heater - depends on the type of the boiler tank, there are straight, bent in different forms. TEN material - copper or stainless steel.



## Light Industry

Uzbekistan has been famous for its mastery in making fabrics and various textile products since ancient times. The abundance of raw materials, the historically developed craftsmanship of the people and the convenience of transportation have led to the creation of textile enterprises in Tashkent, Fergana, Andijan and Bukhara in the middle of the 20th century.

In 1930-1932 there was marked by the closing of the first textile enterprise in Uzbekistan LLC "March 8", which is still considered one of the leading factories in the country. In the same year, the Tashkent Institute of Textile and Light Industry was founded.

Today, the textile and clothing-knitting industry is represented by a wide export range - from yarn to readymade garments and knitwear, and industry enterprises continue to actively increase their presence in foreign markets.

There are more than 7300 textile enterprises in the republic, 1300 of which are united in the Association "Uztekstilprom", including 210 spinning, 114 weaving, 38 cotton and 26 nonwoven industries, 4800 sewing industries that have a total processing capacity of 710 thousand tons of cotton fiber and produce 1253 million square meters of various fabrics. Only in 2017 the enterprises of the industry mastered more than 210 new models of ready-made garments and knitwear.

Over the past 10 years, the production capacity of textile enterprises have been updated by 100%. The equipment of the latest generation has been installed, which contributes in improving the quality of products and increasing its competitiveness in the world market

## Uzbekistan Textile and Garment Industry Association

Uzbekistan Textile and Garment Industry Association was established by the Decree of the President of the Republic of Uzbekistan of December 14, 2017. Association includes more than 1400 industrial enterprises, including 30 large ones, equipped with the most modern equipment. Among them there are 150 joint ventures, established with the participation of foreign partners.

Today, the Uzbekistan Textile and Garment Association is a dynamically developing association of leading manufacturers of textile, sewing and knitwear products in Uzbekistan contrib-

uting to the economic growth of regions and the country as a whole, solving social problems ensuring labor employment of the population creating new jobs;

Structural units of the Uzbekistan Textile and Garment Association (UTGA) are "Textile promotion and marketing agency", "Uztextile export foreign trade company", "Textile broke - cotton realization", Design Center "Shark liborslari", "Engilsanoatkurilish engineering company", State Design Institute-4 "Uzengsanloiha" and Tashkent Institute of Light and Textile Industry





## Export potential

Uzbek textile products are exported more than 55 countries. The main export markets are the CIS countries, primarily Russia, as well as the countries of Latin America, the UE, the Republic of Korea, China, Singapore, Iran, Israel, the United States and others. In 2018, new markets were developed – Pakistan, Georgia, Croatia, Nigeria and a number of others. Russia and the CIS countries are the large importers of Uzbek textile enterprises. They account for more than 51 % of all deliveries, 21 % are exported to South Asia over 12 % to Europe, 8 % to the Middle East and Africa.

According to the results of the development programs, the export of textile products in 2018 is expected at \$ 1.6 billion with its steady growth in subsequent years. Today there are about 70 trading houses of textile enterprises of Uzbekistan abroad. In order to expand the range of products export, the enterprises of the industry take an active part in international fairs in Germany, Korea, China, Russia, Belarus, Latvia and other countries. Foreign investments in the textile industry of Uzbekistan in recent years amounted to \$ 3.1 billion. Over 80% of attracted foreign investments fall to the share of such countries as South Korea, Switzerland, Singapore, the United Kingdom, India and Turkey

## Certification

At today's more than 600 enterprises of the Association, the quality management system ISO-9001 is implemented. Gradually, the OMS is being implemented at the Association's enterprises, jointly with companies, such as SGS Tashkent (Switzerland), TUV International Certification (Germany),

Sert Management (Germany), OMS Italia (Italy), UzbekJV-Turk-Test Markazi ". At present 126 units of standards in Uzbekistan are in harmony with international ISO standards. In 2018 is planned to harmonize 36 units of international ISO standards additionally



## Transport corridors

The volume of export of textile products made by the enterprises associated in Uzbekistan Textile and Garment Industry Association in 2017 amounted to 521.8 thousand tons, 81 % of which was delivered by road . Geography of exports of textile products 50% of the CIS, 29% of the country in East Asia, 8% of the Middle East and Africa, 7% of the European Union countries and others.



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## TRADING HOUSES AND REPRESENTATIVE OFFICES OF ENTERPRISES ABROAD

	Company Name	Office or trade house name	Products name	Address
1	«Cilasun Tashkent» LLC	“UBK» LLC	cotton yarn	Belarus, Minsk city
2	«Fergana Spinning» LLC	«Inter Group» LLC	cotton yarn	Russia, Moscow city
3	«Toshbuloq Textile» LLC	Trade house Toshbulok tex» LLC	cotton yarn	Russia, Moscow city
4	«Fargona Turon Textile» LLC	«FT Textile» LLC	cotton yarn	Russia, Moscow city
5	«BF Textile Production» LLC	«Solntse textile» LLC	cotton yarn/knitted cloth	Russia, Moscow city
6	«Amin Invest International» LLC	TH Tex Prom Torg» LLC	knitting garments	Russia, Moscow city
		TH «Samtex»	knitting garments	Ukraine, Kiev
		JV «Amin Invest»	knitting garments	Kazakhstan, Alma-ata city
7	«Artek international» LV	TH «Inteksprom» LLC	cotton yarn	Russia, Moscow city
8	«Rushantex» LLC	TH «Rushantex»	cotton yarn&fabrics	Russia, Moscow city
9	«Anteks Group» LLC	TH «Anteks- Vostok» LLC	cotton yarn	Russia, Moscow city
10	«Alyorteks» LLC	«Textile Plyus» LLC	cotton yarn	Russia, Moscow city
11	FE «Biryuza Group» LLC	«Biryuza Group» LLC TH	knitting garments	Russia, Moscow city
12	«Uztex Group» LLC JV	TH «Uztex» LLC	knitting garments	Russia, Moscow city
		Uztex kumash ve sanayo ticaret ltd sirketi	knitting garments	Turkey, Karaduval city
13	«Nanyang red cotton angel textile» FE	«Nanyang China»	cotton yarn	China, Shanhai
14	Daewoo Bukhara Teks FE Daewoo Fergana teks FE	«Daewoo Comsco»	cotton yarn&fabrics	Poland, Warsaw
		«Daewoo Comsco»	cotton yarn&fabrics	China, Beijing
		«Daewoo Comsco»	cotton yarn&fabrics	Korea, Seoul
		«Daewoo Comsco»	cotton yarn&fabrics	Germany
15	«Indorama Kokand Textile» JV	«Indorama»	cotton yarn	Singapur
16	«Lukbo Textile» LLC	Lukbo Textile	knitting garments	Russia, Moscow city
17	«Osborn textile» FE LLC	Osborn textile	cotton yarn	Russia, Moscow city
18	«Alkim Textile» FE LLC	Alkim Textile	knitting cloth	Russia, Moscow city
19	«Arteks tijaret» LLC	«Arteks tijaret»	knitting cloth	Russia, Moscow city
20	«Alyans Textile» LLC	«Astera group»	cotton yarn	Russia, Ivanovo city
21	«Cotton Road» JV LLC	TH «Cotton Road»	Cotton fabrics knitting cloth knitting garments	Russia, Moscow city
		TOO «Cotton Road»		Kazakhstan, Alma-ata city
		«Cotton Road Bell» LLC		Belorussia, Minsk
		«COTTON ROAD Europa»		Litva
22	«VODIY TOSHLOQ TEXTILE»	«CHANGZHOU FERGANA IMPORT EXPORT CO., LTD»	textiles	China, Guandju
		TH «LMB Textile»		Russia, r.Toymazi
23	«SELEN LUX» LLC	TH «Anteks Vostok» LLC	cotton yarn	Russia, Moscow city
24	«NAFIS TEX GROUP» LLC	TH LLC Nafis teks group	knitting garments	Russia, Moscow city
25	«MIRUS TEXTILE GROUP» FE LLC	TH «Mirus Group» LLC	socks	Russia, Saint-Pterburgs
26	«VIZIR COLLECTION» LLC	TH «VIZIR COLLECTION Kazakhstan»	knitting garments	Kazakhstan, Alma-ata city
27	«ZELAL TEKSTIL» LLC	TH Lorin teks	knitting cloth	Kyrgystan, Bishkek
28	«ARK EKO TEKSTIL» LLC	TH ARK EKO TEXTIL	cotton cloth	Russia, Ivanovo city
29	«BARAKA TEKSTIL EKSPORT	TH Textile Group LLC	knitting garments	Russia, Moscow city
30	«ASAKA TEXTILE PRODUCTION» LLC	«ASAKA TEXTILE PRODUCTION»	cotton yarn	Kyrgystan, Bishkek
31	«CHACH» LLC	TOO TH Ecoluffa	textiles	Kazakhstan, Alma-ata city
32	«Namangan Momiq Sochiqlari» LLC	TH ART SOFT TEKS	cotton fabrics	Russia, Krasnodar city
33	«UNITEX-LTD» JV	TH «Rus - Kazan»	textiles	Russia, Kazan citu
34	«Beshariktexile» LLC	TH Beshariktexile	knitting garments	Russia, Moscow city
35	«BARCHINOY» PE	TH «BARCHINOY TEXTILE»	knitting garments	Russia, Moscow city
36	«ARGE FASHION» FE LLC	TH Dasmann LLC	knitting garments	Russia, Moscow city
37	«ELITEX GROUP» LLC	TH «ELITEX GROUP»	knitting garments	Kazakhstan, Alma-ata city
38	«KORTEKSOCKS» LLC	TH «MASSALIYA»	knitting garments	Russia, Saint-Pterburg
39	«Namipextexile» LLC	TH Pergan Textile LLC	cotton yarn	Russia, Ivanovo city
40	«Urganch Bahmal» LLC	TH «OTK»	cotton fabrics	Russia, Ivanovo city
41	«BARAKAT-ALFA» LLC	TH «Ameliya Severozapad»	textiles	Russia, Saint-Pterburg
42	«ASKLEPIY-SVIFT LLC	TH «Beloye Zoloto»	textiles	Russia, Kalujskaya region.
43	«AISHA HOME TEXTILE» LLC	TH «Altin Asir»	textiles	Russia, Samarskaya region.
44	«ZEMIRTEX INVEST» LLC	TH ZEMIRTEX INVEST LLC	knitting garments	Russia, Moscow region
45	«INVESTKS» LLC	TH «BONITO-TEKS»	knitting garments	Russia, Moscow city
46	«TEKSTIL POSTAVKA» LLC	TH Textile torg	knitting garments	Russia, Moscow city
47	«SAAS TEKS INVEST LLC	TH «SAAS IMPEKS»	knitting cloth	Russia, Moscow city
48	«УИК ТУБО Textile» LLC	TH OTK	cotton fabrics	Russia, Ivanovo city
49	«SAMO TEKSTIL SERVIS» LLC	TH Samotextilservis	cotton fabrics	Russia, Tatarstan
50	«Jizzakh Textile» LLC	Uzlegpromtorg	textiles	Russia, Moscow
51	«ZARAFSHON TEKSTIL» LLC	TH «8 MARCH»	knitting garments	Russia, Moscow



100% Cotton raw yarn



100% Cotton raw fabrics



100% Cotton dyed, mixed, melange yarn



100% Cotton dyed and printed fabrics



Knitting fabrics



Terry products



Knittings products



Sport germents



Home textile



Special wear and uniforms



Hosiery products



Medical products

## Association "Uzcharmsanoat"

**Main functions of the Association "Uzcharmsanoat" are to coordinate the activities of enterprises, conduct a unified investment policy, modernize enterprises and introduce advanced technologies.**

The Association includes about 300 industry enterprises, 27 enterprises for the production of leather, 25 enterprises for the production of leather goods, 200 enterprises for the production of shoes, 33 complexes for automated slaughter of livestock, 13 procurement offices. Industry enterprises produce 17 million pairs of shoes and about 500 million square meters skin per year.

Main products of the enterprises includes the manufacture of footwear, leather materials, personal protective equipment, finished leather goods, finished fur and sheepskin products.

### Export potential

Main markets for leather and footwear products are the CIS countries, such as the Russian Federation, Kazakhstan, Turkmenistan, and Kyrgyzstan, whose total capacity averages more than 80% of the total exports of the Association "Uzcharmsanoat". At the same time, enterprises of the association are taking measures to enter new markets. For the last three years, finished products have been exported to Japan, China, Israel, the USA, Germany and Latvia. In this direction, enterprises are further working to strengthen their positions and expand supply volumes.

The quality of the Uzbek leather and footwear products has been noted many times at international competitions and exhibitions. In the treasury of awards for quality, originality and appearance of products, the Association has more than 150 different awards, prizes and honorary diplomas from international exhibition organizers.



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### Children's shoes



### Women's shoes





## Sport shoes



## Leather goods





### Karakul Fur Coats



### Leather



## Boots

Material: heat resistant, water-repellent, made of genuine leather of increased thickness (1.8–2.2 mm)

Sole: oil and petrol resistant, acid and alkali resistant polyurethane, heat-resistant and cold-resistant (-20°C + 100°C)

Toe cap: metal, for protection against impacts in the toe part  
Maximum shock load of EOR 200 J.

Insole: metal for protection against nails Design: casting



## Work boots

Material: heat resistant, water-repellent, made of genuine leather of increased thickness (1.6–2.2 mm)

Sole: oil and petrol resistant, acid and alkali resistant polyurethane

Toe cap: metal, for protection against impacts in the toe part  
Maximum shock load of EOR 200 J.

Insole: metal for protection against nails Design: casting.





## High Top Boots

Material: heat resistant, made of genuine leather-nubuck of increased thickness (1.6–1.8 mm)

Sole: oil and petrol resistant, acid and alkali resistant polyurethane, heat-resistant and cold-resistant (-15°C + 90°C)

Toe cap: metal, for protection against impacts in the toe part  
Maximum shock load of EOR 200 J.

Insole: metal

Design: casting, meets the requirements GOST 447-91, GOST 19137-89, GOST 26167-91.



## Work boots

Material: made of genuine leather of increased thickness (1.6–1.8 mm) Possible options of synthetic leather

Sole: oil and petrol resistant, acid and alkali resistant polyurethane, heat-resistant and cold-resistant (-30°C + 100°C)

Toe cap: metal, for protection against impacts in the toe part  
Maximum shock load of EOR 200 J.

Insole: metal for protection against nails Design: casting

Possible options: with fur.



## Winter boots

Material: heat resistant, water-repellent, made of genuine leather of increased thickness (1.6–1.8 mm)

Possible options of synthetic leather

Sole: oil and petrol resistant, acid and alkali resistant polyurethane, heat-resistant and cold-resistant (-15°C + 90°C)

Toe cap: metal, for protection against impacts in the toe part

Maximum shock load of EOR 200 J.

Design: casting, meets the requirements GOST 447-91, GOST 19137-89, GOST 26167-2005.



## Running shoes

Material: made of genuine leather and textile microfiber.

Toe cap: rubber, heat-resistant and cold-resistant (-30°C + 100°C)

Design: glue





## Association «Uzbekipaksanoat»

Over the past two years, the country's leadership has begun to implement revolutionary reforms in the field of silk production, as well as structural changes aimed at launching and modernizing new production facilities, creating favorable conditions for entrepreneurs, expanding the range of products and types of competitive products in the world market.

In 2017–2021, it is planned to modernize 20 factories for the production of silk grains and more than 40 factories for the processing of cocoons. It is also planned to increase the area of mulberry plantations by more than 1.5 times, the volume of raw silk production by more than 5.5 times, and the volume of silk fabric production by 17 times due to the deep processing of raw materials, while export volume increased by almost 1.7 times

### Export potential

Exports of silk products in 2016 amounted to \$ 22.0 million and this figure was \$ 37.6 million in 2017 which is 195.4% more compared to 2016. During 9 months of 2018, exports of silk products amounted to \$ 29.0 million, which is 157% more with the same period of 2017. The forecast of the volume of exports of silk products for 2018 is more than 48.4 million dollars.

The main markets for silk products are China, Vietnam, Turkey, the United Arab Emirates, Italy, Spain, Egypt, Iran, South Korea, Japan and Thailand.

Today, 11 enterprises out of 40 have cooperated in the production with foreign partners, in particular, 4 enterprises — with China, 2 — with Vietnam, 2 — with Singapore, 1 — with the USA-Russia, 1 — with the UK and 1 — with South Korea.



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## Raw silk

The enterprises have established the production of raw silk of varieties, such as:

- № 215 (40/44 denier)
- № 310 (27/29 denier)
- № 429 (20/22 denier)

The annual production of raw silk is 850–1000 tons.



## Silk wool

Silk wool is produced in all enterprises of the Association. The main application of silk wool is in the production of silk blankets and pillows.

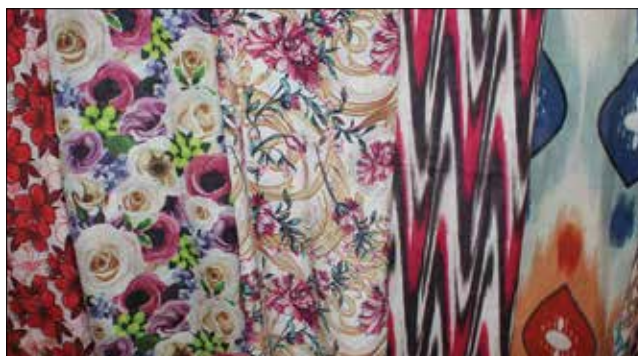
The annual production of silk wool is 315 tons.



## Silk fabrics

Silk fabrics is used for a variety of purposes, including the production of underwear, silk clothing, curtains and others. According to appearance, functions, processing method, the method of crossing the main and weft threads, silk fabrics can be divided into crepe, crepe georgette, satin, muslin and jacquard fabric. All these types are produced in the enterprises of the Association.

The annual volume of production of silk fabrics is 820 thousand meters



## Silk carpets

Silk carpets are made of silk thread and silk waste and painted with both natural and chemical paints. Price of 1 square meter silk carpet which are made of natural silk yarn is from \$ 1,0. At the moment, the manufacture of hand-made silk carpets is established at "Yodgorlik" LLC (Fergana, Margilan). Starting from 2019, it is planned to organize the production of silk carpets at all enterprises of the Association.



## Silk clothes

Women's dresses for designer models are made of natural silk fabric with a printed pattern.





### Mulberry Leaf Tea

Useful for the treatment of diabetes, cardiovascular diseases and helps to improve metabolism with the loss of excess weight.



### Canned silkworm pupae

They are one of the most popular types of delicacy in the countries such as China, Korea, Japan, and Thailand



### Silkworm pupa oil, chitin and chitosan substances, biologically active substances

Used in pharmaceuticals and cosmetology. From 5 kg of pupa, 1 kg of oil is taken, 800 g - chitin, chitosan, and 900 g of other biologically active substances.



### Silk Blankets

Silk blankets are made due to the category of elite bedding. They are filled with 100% natural silk, hand-sorted. Natural silk fibers are not treated with chlorine and other aggressive chemical compounds, they retain their natural aseptic properties and they do not accumulate dust and dirt in the process of using blankets



### Silk Ties

At the moment, the production of silk ties is established on JV LLC "Bukhara Brilliant Silk". Ties are made from natural silk fabric with a printed flower pattern



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Raw silk № 429 20/22  
den



Raw silk № 429 50-70  
den



Silk wool



String



Raw silk № 215 40/44  
den



Raw silk № 310 27/29  
den



Canvas



Dud





Pupa



Silkish



Silk wool



Canvas cocoon



Silk thread № 310



Silk thread № 310



Silk thread № 310



Cocoon string



## Food Industry

### Viticulture and Wine Development Agency

The Viticulture and Wine Development Agency was founded in 2019 under the Ministry of Agriculture and Food of the Republic of Uzbekistan. The Agency implements a unified state policy in the field of viticulture and winemaking, as well as develop and implement comprehensive targeted programs aimed at ensuring the dynamic development of viticulture and winemaking.

### JSC AI "Combine Tashkentvino"

At present, "Tashkentvino" combine is a modern multi-profile enterprise that is a recognized world leader in its industry, producing more than 200 types of alcoholic beverages and non-alcoholic products. For more than 150 years, our company has been producing a wide range of high quality alcoholic beverages, which are recognized by the whole world. The history of "Tashkentvino" begins in 1867, when the entrepreneur of the Imperial Court of Russia arrived in

our region, the merchant of the first guild Ivan Andreevich Pervushin built a distillery on the bank of the Salar Canal and laid the foundation for winemaking on an industrial scale. The combine received the first high awards of medals and diplomas at the Moscow Polytechnic Exhibition, and later in 1878 Gold and Silver medals at the International Exhibition in Paris.

### JSC "Uzbekistan Champagne"

JSC "Uzbekistan Champagne" is the only enterprise in the Republic on production of champagne and sparkling wines in the system of the company "Uzsharobsanoat". The enterprise started to operate in 1942. For the production of champagne, wine materials derived from certain grape varieties are used.

Technical varieties of grapes are used for processing of champagne wine materials:

Bayan-Shirei, Kuldzhinskiy, Pino, Rkatsiteli, Riesling, Cabernet, Soyaki, etc. In addition to sparkling wines, JSC "Uzbekistan Champagne" produces red and white wines in a wide assortment, as well as vodka and alcoholic beverages

### JSC "Samarkand Wine Combine Khovrenko"

The enterprise was established in 1868 and currently specializes in production of grape wine (dry, dessert, fortified), cognac, vodka and alcoholic beverages, wine materials, brandy alcohol.

For the production of high quality products, the enterprise received numerous gold, silver, bronze medals received at the International degustation competitions.



## SPARKLINE

### O'zbekim

0,75 l / 10,5–12,5%

A sparkling wine of high quality is prepared by a periodic asratoforic method from high-quality champagne wine materials, produced from white grapes Bayan-shirei, Rkatsiteli, Kuldzhinskiy, Riesling, in the foothill areas of Uzbekistan, using special champagne yeast. It has a light straw color with light shades of gold and greenery, an elegant floral bouquet and a light harmonious taste, accentuated by the lively play of pearl strings and snow-white lace of foam.



### Affresko

0,75 l / 10,5–12,5%

Affresko champagne enchants with a rich range of floral notes, a complex intertwining of the aroma of white flowers with light breath of the rose creates a magical bouquet of royal drink, enchanting your eyes with a variety of pearl strings born in the mysterious depth of the glass and with exquisite grace aspiring to its surface through a bubbly white foam ring. A cleverly selected combination of grape varieties, such as Aleatico, Kuldzhinsky, Rkatsiteli, Riesling and Bayan Shirei, as well as the use of aromatic-forming French yeast in champagne allowed us to get this perfection.



### Oltin Fawora

0,75 l / 10,5–12,5%

Oltin Fawora aged Uzbek champagne (aged sparkling wine of high quality) is prepared periodically in a lank way from high-quality champagne wine materials, produced from the varieties of grapes Bayanshirei, Rkatsiteli, Kuldzhinsky, Riesling, growing in the foothill areas of Uzbekistan, using French champagne yeast and subsequent exposure on them champagne wine for 6 months with the aim of forming high sparkling and foamy properties, enriching the wine with valuable ingredients of the yeast cells, the formation of an exquisite bouquet and taste. By the content of sugar marks are prepared semi-dry and semisweet.



## WHITE WINE



### O'zbekim

Dry

0,75 l / 10–13%

O'zbekim is a natural white dry wine, prepared from the artfully selected blend of wine materials made from white technical grades of grapes Bayan-shirei and Rkatsiteli, is characterized by light straw color with golden tint, a delicate bouquet of flowering herbs of foothill Uzbekistan and a light harmonious taste..



### Fergana

Dry

0,75 l / 11%

FERGANA - this is a dry white wine. It is produced from the best white types of grapes. Light, fruity and refreshing. This wine is well-balanced and generous.



### Bagizagan Chardonnay

Dry

0,75 l / 10%

This superb dry natural wine from the unique vineyards of Baghizagan is located on a unique in its natural superiority zone, it has a straw color, a fruity bouquet (peach melon and quince), a pronounced taste with a characteristic aftertaste of hazelnut and wildflowers.

## Karabair

Dry

0,75 l / 11%

KARABAIR is a natural white dry wine made from selected grapes of white varieties Bayan-shirei, Rkatsiteli, Kuldzhinsky, Riesling, grown in the parkent district of Uzbekistan. The wine is straw-colored with greenish golden hues, a complex interesting bouquet with notes of white flowers and honey, a light harmonious taste.



## Sultan

Dry

0,75 l / 10,5–12,5%

This wine ideally matches with cold appetizers, cheese, salads, meals with white meat as well as seafood. Besides, it can serve as a great aperitif.

Light-lipped, with intermittent greenish hues. Charming varietal bouquet of wine adroitly presented of interwoven hues of fragrant of white flowers, especially of acacia, honey and peach. The taste of wine is fresh, harmonious with pleasant velvety astingency of the aftertaste.



## Wine Garden Riesling

Dry

0,75 l / 11%

Wine natural white dry "Wine Garden" is made from a grape variety "Riesling"

The wine is pleasant straw color with light greenish shades. The fresh aroma of wine is dominated by shades of green apple and Lime, nuances of field grasses. The fresh, Light and elegant taste of wine achieves a perfect harmony between sweet fruit notes and fine acidity. In the refreshing taste, notes of a green apple, apricot and peach are felt. The wine is excellent as an aperitif, it goes well with salads, gritted fish or sauce, and also seafood.





## WHITE WINE



### Uzbekistan

Semi-Dry 0,75 l / 12%

White semi-dry wine, made from selected white grape varieties Rkalsiteli and Riesling.

It has a pleasant bouquet, a floral delicate aroma. The color is light straw with light golden hues. The taste is light and harmonious. Wine can be fed to the second course, and to dessert at a temperature of 2–8° C.



### Tashkent

Semi-Sweet 0,75 l / 11%

TASHKENT - this is a white semi-sweet wine. It is produced from the best white types of grapes and is a rich, deep and full palate. This wine is well-balanced and generous.



### Wine Garden

Semi-Sweet 0,75 l / 11%

The wine is a natural white semisweet "Wine Garden" made from the grape variety "Riesling" and "Rkatsiteli".

The wine is brightly golden in color. Fresh, sophisticated wine aroma demonstrates the tone of ripe sweet-smelling apples, guinea, melon and roasted nuts. The soft and harmonious taste of wine is filled with pleasant fruit notes, and a slight fresh aftertaste completes the composition.



## Sultan Chinuri

Semi-Sweet 0,75 l / 12,5%

You can enjoy a marvelous combination of wine with fruit courses, salads and it also matches with various kinds of raw cheese. Hue wine is tight-lipped, it differs by complex elegance of the varietal bouquet, combination of honey aroma and delicate balanced tones of peach and pear.



## Muskat

Semi-Sweet 0,75 l / 16%

Muscat wine is made from Muscat Hungarian grape variety, has a delicate honey aroma with shades of petals of the Kazanlik rose. Wine of golden color. The taste is full, harmonious, with the tone of the rose jam. The captivating tenderness of taste and the charm of a fragrant bouquet create an unforgettable impression on this wine.

Muscat wine combines well with fruits, confectionery, and is served to a delicious dessert at room temperature.



## RED WINE

### Uzbekistan

Dry

0,75 l / 12 %

Uzbek natural red wine, made from varieties of grapes Cabernet and Tavkveri. The wine has a rich ruby color. It has a pleasant taste and a slight acid content. The aroma is delicate with berry tones. It fits well with dishes with red meat and cheese. It is recommended to use at a temperature of 5-16 °C.



### Bagizagan Merlot

Dry

0,75 l / 11%

This superb dry natural wine from the unique vineyards of Baghizagan is located on a unique in its natural superiority zone, it has a straw color, a fruity bouquet (peach melon and quince), a pronounced taste with a characteristic aftertaste of hazelnut and wildflowers.



### Cabernet Sauvignon

Dry

0,75 l / 11%

This wine is recommended to match with treat of roasted meals, steaks and red meat meals, various kinds of mature cheeses. This type of wine is of saturated red colour with ruby hue. The bouquet is pleasant, vivid, with encircling tender tannins , it combines the aromas of currant, vanilla, coffee beans , bitter chocolate . Lasting aftertaste with velvet tender tannins.



## Sultan

Dry

0,75 l / 12,5%

Uzbek natural red wine, made from varieties of grapes Cabernet and Tavkveri. The wine has a rich ruby color. It has a pleasant taste and a slight acid content. The aroma is delicate with berry tones. It fits well with dishes with red meat and cheese. It is recommended to use at a temperature of 5–16° C.



## Wine Garden Cabernet

Dry

0,75 l / 11%

Wine natural red dry "Wine Garden" is made from a grape variety "Cabernet". Wine of rich ruby-violet color. The bright aroma of wine is dominated by notes of mulberry, plum, raisins and strawberries with cream. The wine has a mild taste with silk tannins, rich notes of blackberry and black currant. Wine is perfectly combined with smoked salmon, meat dishes (beef, game, lamb) pasta, cheeses.



## Wine Garden Saperavi

Dry

0,75 l / 11%

Wine natural red dry "Wine Garden" is made from the grape variety "Saperavi".

The wine is dark ruby color with a violet hue. The rich and generous aroma of wine is made up of notes of dark berries, black currant and ripe cherries. The wine demonstrates an elegant, well-balanced, full-bodied taste with good structure and resistant tannins. In the taste of the tone of ripe fruit harmoniously intertwined with light nuances of oak and spices, forming a long fragrant aftertaste.

The wine will be a perfect complement to grilled meats, grilled meats, generously seasoned with spices, and mature cheeses.



## RED WINE

### Wine Garden

Semi-Dry

0,75 l / 11%

Wine naturally red semisweet "Wine Garden" is made from the grape variety "Cabernet Sauvignon" and "Saperavi". The wine is deep cheny-ruby color. The wine has a complex, elegant aroma, woven from notes of plum, cherry, blackberry, underbrush. The wine shows a round, harmonious taste with fruity and berry tints, soft tannins, and pleasant sweetness in the aftertaste.

Wine fits well with grilled meal, it is also served with sausages and meat delicacies.



### Sultan

Semi-Sweet

0,75 l / 12%

Perfectly matches in use with second course meals, fruit and desserts.

Dense ruby colour with purple hues.

Flowery and sweet fruit hues are presented in this bouquet. The taste is full, extractive, restrained tart with long dessert aftertaste.



### Uzbekistan

Semi-Dry

0,75 l / 12%

Produced from varieties of grapes Cabernet and Tavkveri. The wine has a rich ruby color. It has a pleasant taste and a slight acid content. A delicate aroma with a floral tinge and berry tones. It fits well with dishes with red meat and cheese. It is recommended to use at a temperature of 2–8 °C.



## Samarkand

Semi-Dry

0,75 l / 11%

SAMARKAND — This is a red semi-dry wine. It is produced from the best red types of grapes. The Samarkand is delicately sweet and is highly recommended with dessert.



## O'zbekim

Semi-Sweet

0,75 l / 11%

O'ZBEGIM — natural red semi-sweet wine is prepared from the artfully selected blend of wine materials made from red technical varieties of Cabernet and Saperavi grapes, characterized by rich red color with shades of ruby, rich floral berry bouquet with delicate notes of cherry and currant, soft velvety taste. It is produced by ale of 11 % and the acidity of 4–5 g / dm<sup>3</sup>



## BRANDY



### Uzbekistan

Jubilee. Aged 25 Year

0,7 l / 40%

UZBEKISTAN JUBILEE AGED 25 YEARS This cognac contains the finest eaux-de-vie, the most exclusive in our region, that have been aged in our warehouses for over two decades in oak barrels. 25 years is the perfect time for these specific eaux-de-vie to develop their full richness and heightened aromatic style. Cognac Uzbekistan fascinates due to the way it perfectly balances elegance and exquisite harmony with the full-bodied aroma and characteristic strength of particularly old distillates. On the palate, the aromatic notes deepen into candied orange and gingerbread, leading to a smooth and voluptuous finish with exquisite depth that seems to go on forever.



### Old Samarkand

Aged 15 Years

0,5 l / 40%

OLD SAMARKAND - cognac of CVO group (cognac is very old) is prepared according to the classical technology from cognac spirits aged in oak barrels for at least 15 years. It has the color of a noble cognac. An exceptionally full bouquet with tones of fresh oak and nutmeg. Harmony and a well-developed bouquet with a complex complex of flavors are combined in it with a mild taste Aroma-complex, well-coordinated with resinous vanilla tones.  
Sugar content: 1.3 g / dm<sup>3</sup>



### Toshkent

XO Exclusive, Aged 15 years

0,7 l / 40%

TOSHKENT XO EXCLUSIVE — deep gold amber, full and powerful, hints of almond and vanilla with a long aftertaste. Every drop is made from rare eaux-de-vie, aged in our cellars for long 15 years. Believe us, it is more than worth the wait. Rich, full-bodied and complex, TOSHKENT EXCLUSIVE combines the spicy aromas of oak and leather with the sweeter essences of flowers and ripe fruit.

## Toshkent

XO, Aged 15 years

0,5 l / 40%

TOSHKENT XO — this is an ordinary wine brandy. It is made by the traditional methods of production. Light and delicate, this wine brandy reveals a complex and well-balanced bouquet progressively to both the nose and the palate. The pleasure of tasting.



## Filatov

Aged 3 years

FILATOV — it is prepared according to the classical technology by blending cognac spirits aged in oak barrels for at least 3 years.

This cognac is characterized by a developed aroma with soft vanilla tones. The taste is slightly burning, rich, multilayered, with a good aftertaste.

The color of the cognac is amber, with a clear sheen. The aroma is rich, enchanting, in which the woody aroma perfectly combines with the ease of ripe grape shades. Invigorating, but soft enough.

Sugar content: 1.5 g / dm<sup>3</sup>.



## Old Baron

Ordinary Brandy

0,5 l / 40%

OLD BARON — this is an ordinary wine brandy. It is made by the traditional methods of production. Light and delicate, this wine brandy reveals a complex and well-balanced bouquet progressively to both the nose and the palate. The pleasure of tasting.



## VODKA



### Yagona

1 l / 40%

Improved vodka  
 Transparency — transparent, clean  
 Color — colorless  
 Bouquet — corresponds to the type  
 Taste — without external flavor and aroma  
 Strength — 40%.



### Trust

0,5 l / 40%

Premium vodka "TRUST" is prepared according to the classic Russian vodka technology using high-quality "ALPHA" alcohol and specially prepared soil water. Consumption is recommended chilled.

Storage conditions -15° C + 30° C at a humidity of not more than 85%. Shelf life is 12 months. Date of bottling is indicated on the bottle.



### Troyka

0,5 l / 40%

Vodka "TROYKA" is prepared according to the classic technology of Russian vodka using high-quality alcohol "LUX", sugar and specially prepared soft water. Consumption is recommended chilled. Storage conditions -15° C + 30° C at a humidity of not more than 85%. Shelf life is 12 months. Date of bottling is indicated on the bottle.



## Royal Elite

0,7 l / 40%

ROYAL ELITE — silky smooth and made from the world's finest golden wheat with Uzbekistan's fabled healing waters. Royal elite traces its roots to the ancient court of Emperor Tamerlane and is produced by the venerable Tashkent vino distillery, renowned throughout Russia and Central Asia as the leading producers of fine vodkas, cognacs and wines. The Royal elite Gluten Free Vodkas provide the highest standard of vodka to those who enjoy a gluten free diet. These products have the added benefit of being Kosher for Passover. Please do not be mistaken: these are real, traditional vodkas, not flavored.



## Lemon

1 l / 40%

LEMON — "Uzbekistan Lemon" is a unique alcoholic beverage product. The bottle contains a natural, whole lemon. This drink is prepared according to a special technology with the use of high-quality alcohol "Lux"



JSC «O'zbekiston Shampani»

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E-mail: [info@champagne.uz](mailto:info@champagne.uz)

Website: <http://champagne.uz>





## HC "Uzbekoziqovqatxolding"

Holding Company "Uzbekoziqovqatxolding" — responsible for the welfare of the food industry throughout the Republic. The holding unites about 470 enterprises, in particular for the processing of fruits and vegetables (241 companies), meat and milk (45), the production of other food and beverage products and non-alcoholic beverages (79), etc. The holding also includes company for foreign trade, JSC Uzagroexport for the export of fresh and processed fruits and vegetables. Today, the agricultural sector of the republic annually produces more than 21 million tons of fruits and vegetables, as well as more than 350 types (varieties) of agricultural products, of which over 180 types of fresh and processed fruits and vegetables are supplied to foreign markets.

In the production and processing of fruits and vegetables, enterprises of the industry use modern equipment from leading world brands: Binder (Germany), Fam (Belgium), Göztepe (Turkey), Yukseltur (Turkey), GMG (China) and others.

## Fruits and vegetables

### Fruits



#### CHERRY

##### TYPES/VERITIES

Bahor Revershon Bull's Eye | Dragona cherry | Rainer cherry

##### AVAILABILITY

May – July | June – July

##### COUNTS/SIZES

22–24 mm, 24–26 mm, 26–28 mm, +28 mm

##### PACKAGING

5 kg carton package



#### APRICOT

##### TYPES/VERITIES

Ahrorov | Subkhona | Victory

##### AVAILABILITY

May June | June July | June August

##### COUNTS/SIZES

50–70 mm, 40–60 mm, 40–50 mm

##### PACKAGING

5 kg open top carton boxes

10 kg open top carton boxes



#### PEACH

##### TYPES/VERITIES

Champion | Nectarine

##### AVAILABILITY

June – August

##### COUNTS/SIZES

51–56 mm, 56–61 mm, 61–67 mm, 67–73 mm, 73–80 mm,  
80–90 mm,

##### PACKAGING

5 kg open top carton boxes

10 kg open top carton boxes

## GRAPES

### TYPES/VERITIES

Black | Red | White

### AVAILABILITY

June – September

### COUNTS/SIZES

22x17 mm | 24x15 | 27x19 25x22 mm | 27x19 | 38x18

### PACKAGING

5 kg open top carton boxes

10 kg open top carton boxes

8–10 kg wooden boxes



## PLUM

### TYPES/VERITIES

Victoria | Spanish

### AVAILABILITY

June – August

### COUNTS/SIZES

40 mm, 35–40 mm, 30–35 mm

### PACKAGING

5 kg open top carton boxes

10 kg open top carton boxes



## APPLES

### TYPES/VERITIES

Red | Golden | Semerenko

### AVAILABILITY

May – September

### COUNTS/SIZES

90–135 g | 136–165 g | 165–200 g | >200 g

50–60 mm | 60–70 mm | 70–80 mm | > 70 mm

### PACKAGING

5 kg open top carton boxes

10 kg open top carton boxes



## PERSIMMON

### TYPES/VERITIES

Chocolate

### AVAILABILITY

September – December

### COUNTS/SIZES

50–90 g, 85–130 g, 125–190 g

### PACKAGING

5 kg open top carton boxes

10 kg open top carton boxes



## PEAR

### TYPES/VERITIES

Garden beauty

### AVAILABILITY

August – October

### COUNTS/SIZES

> 130 g > 60 mm | 110–130 g 55–60 mm | 75–110 g 45–55 mm

### PACKAGING

5 kg open top carton boxes

10 kg open top carton boxes



**POMEGRANATE****TYPES/VERITIES**

Bitter | Sweet

**AVAILABILITY**

August – November

**COUNTS/SIZES**

100–200 g &gt; 70 mm | 200–300 g 80–90 mm | 300–400 g 90–100 mm | &gt; 400 g 100 mm

**PACKAGING**

5 kg open top carton boxes

10 kg open top carton boxes

**STRAWBERRY****TYPES/VERITIES**

Victory

**AVAILABILITY**

April – May

**COUNTS/SIZES**

&gt;40 mm | 25–40 mm | 18–25 mm

**PACKAGING**

5 kg carton package

**FIG****TYPES/VERITIES**

Green | Purple

**AVAILABILITY**

August – October

**COUNTS/SIZES**

25–70 mm

**PACKAGING**

5 kg open top carton boxes

**Vegetable****TOMATO****TYPES/VERITIES**

Yusupovsky | Charlotka Bella

**AVAILABILITY**

January – December

**COUNTS/SIZES**

25–30 mm | 30–40 mm | 35–40 mm | 45–50 mm | 50–55 mm

**PACKAGING**

10 kg carton package

10 kg wooden boxes

**MARROW****TYPES/VERITIES**

Light | dark green

**AVAILABILITY**

July – October

**COUNTS/SIZES**

10–28 sm

**PACKAGING**

10 kg open top carton boxes

## SWEET PEPPER

### TYPES/VERITIES

Red | Salana | Dolfin

### AVAILABILITY

January – October

### COUNTS/SIZES

5–10 cm | 6–10 cm | 7–11 cm

### PACKAGING

5 kg carton package



## CHILI PEPPER

### TYPES/VERITIES

Red | Green

### AVAILABILITY

January – October

### COUNTS/SIZES

2–10 cm | 3–12 cm

### PACKAGING

10 kg carton package



## CUCUMBER

### TYPES/VERITIES

Orzu | Ayaks

### AVAILABILITY

January – December

### COUNTS/SIZES

L = 10–19 cm | L = 9–12 cm D = 2,5–5 cm | D = 2,5–4 cm

### PACKAGING

10 kg open top carton boxes



## GARLIC

### TYPES/VERITIES

Dry White

### AVAILABILITY

May – November

### COUNTS/SIZES

50|55|60|65|70 mm

### PACKAGING

10 kg carton package

10 kg mesh bags



## BEET

### TYPES/VERITIES

Red beet

### AVAILABILITY

May – November

### COUNTS/SIZES

40–75 mm

PACKAGING

40 kg mesh bags





## AUBERGIN

TYPES/VERITIES

Pantera | Roma

AVAILABILITY

June – September

COUNTS/SIZES

D = 2,5–5 cm L = 12–20 cm

PACKAGING

10 kg carton package



## CARROT

TYPES/VERITIES

Orange | Yellow

AVAILABILITY

May – November

COUNTS/SIZES

L = 10–15 cm D = 4–6 cm

PACKAGING

10 kg open top carton boxes



## GREENS

TYPES/VERITIES

Coriander; Spring onion; Drill; Cabbage; Broccoli; Arugula; Radish

AVAILABILITY

January – December

COUNTS/SIZES

10–15 cm | 12–18 cm | 11–18 cm

PACKAGING

10 kg carton package



## ONION

TYPES/VERITIES

Robin | Manas

AVAILABILITY

May – November

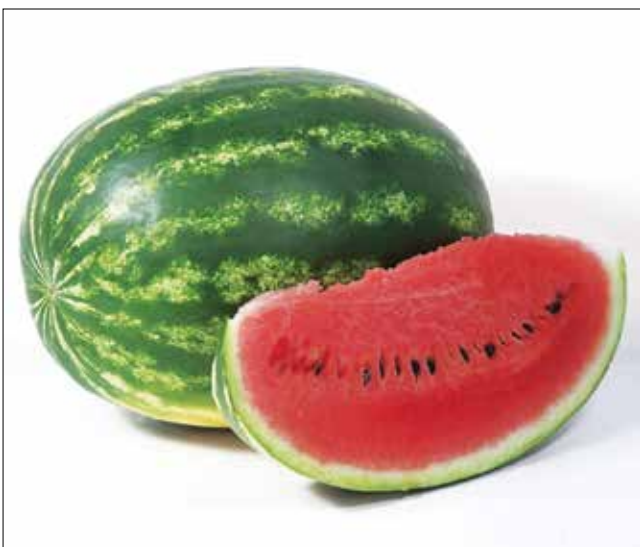
COUNTS/SIZES

30/50, 40/60, 50/70, 60/80, 70/90, 80/100, 90/100

PACKAGING

25 kg mesh bags

30 kg mesh bags



## WATERMELON

TYPES/VERITIES

Ataman | Crimson | Talisman

AVAILABILITY

September December | May September

COUNTS/SIZES

22–52 cm 5–12 kg | 20–52 cm 5–12 kg

PACKAGING

20 kg open top carton boxes

## MELON

### TYPES/VERITIES

Summer: Mini-torpedo, Citireks (Galia),  
Autumn: Torpedo, Gulyabiy

### AVAILABILITY

June – November

### COUNTS/SIZES

30 cm 3 kg oval | 15 cm 2 kg round | 50 cm 7 kg oval | 40 cm  
5 kg oval

### PACKAGING

15–18 kg open top carton boxes



## PUMPKIN

### TYPES/VERITIES

Yellow | Grey

### AVAILABILITY

August – December

### COUNTS/SIZES

18–40 cm 5–12 kg

### PACKAGING

20 kg carton boxes



## Dried fruits

## APRICOT

### VERITIES

Limonka | Isfarak | Subhona

### TYPES

Without stone | With stone

### NEW CROP

July – August

### GRADES

Extra class; High class; Medium class; Confectionary

### COUNTS/SIZES

Per kg: 100–120 p, 121–160 p, 161–200 p, 201 and over

### QUALITY

Moisture: 14–16% Dirtiness: 0.5%

### PACKAGING

10–12 kg carton boxes



## QUINCE

### VERITIES

Supreme

### TYPES

Sliced | Cut

### NEW CROP

October

### GRADES

Extra class; Confectionary

### QUALITY

Moisture: 8% Dirtiness: 0,5%

### PACKAGING

15 kg pp bags





## RAISING

### VERITIES

California | Kishmish | Abdur Sultana

### TYPES

Without stone / With stone Sun dried / shadow dried

### NEW CROP GRADES

Extra class; High class; Medium class; Confectionary

### COUNTS/SIZES

Per ounce: 150–160 p, 260–280 p, 280–300 p, 301 and over

### QUALITY

Moisture: 16% Dirtiness: 0,2%

### PACKAGING

10–12 kg carton package



## PEARS

### VERITIES

Champion

### TYPES

Without stone

### NEW CROP

July – August

### GRADES

Extra class; Confectionary

### QUALITY

Moisture: 14–16% Dirtiness: 0,5%

### PACKAGING

12 kg carton package



## APPLES

### TYPES

Sliced-mixed

### NEW CROP

August – September

### GRADES

Extra class; Class I; Class II

### COUNTS/SIZES

Size range: 25–70

thickness minimum: 7 mm

### QUALITY

Moisture: 8% Dirtiness: 0,5%

### PACKAGING

20 kg pp bags



## COMPOTE MIX

### TYPES

5 in 1 | 7 in 1

### NEW CROP

September

### GRADES

High class; Medium class

### QUALITY

Moisture: 12% Dirtiness: 1%

### PACKAGING

32 kg double pp bags



## MELON

### VERITIES

Mixed varieties

### TYPES

Braids | Briquette

### NEW CROP

September

### GRADES

High class; Medium class

### QUALITY

Moisture: 10% Dirtiness: 0,5%

### PACKAGING

10 kg carton package



## Plum

### VERITIES

Spanish | Victoria

### TYPES

Without stone | With stone

### NEW CROP

July – August

### GRADES

Class I; Class II; Confectionary

### COUNTS/SIZES

C/without stone: 60/70, 71/80, 81 and over

### QUALITY

Moisture: 24% Dirtiness: 0,5%

### PACKAGING

10–12 kg carton package



## BEET

### TYPES

Sliced | Cut | Melted

### NEW CROP

July – August

### GRADES

High class; Medium class;

### QUALITY

Moisture: 10% Dirtiness: 0,5%

### PACKAGING

50 kg pp bags



## HEENG (ASAFOETIDA)

### VERITIES

Milky white

### TYPES

Donak | Halva | Sheera

### NEW CROP

May

### GRADES

High class; Medium class; Third class

### QUALITY

Dried and Solid; Dried Liquid; Liquid

### PACKAGING

50 kg бочках





## WALNUT

### TYPES

With shell | Without shell

### COLOR

Light | Red | Dark

### NEW CROP

October

### GRADES

Half/Quarter

### QUALITY

Refined: Moisture: 7% Dirtiness: 1%

With shell: Moisture: 6% Dirtiness: 1%

### PACKAGING

With shell: 20 kg pp bags

Refined:

10 kg carton package

5 kg vacuum pack



## APRICOT KERNELS

### VERTITIES

Sweet | Bitter

### TYPES

With shell | Without shell

### NEW CROP

July – August

### GRADES

High class; Medium class

### QUALITY

Moisture: 5–7% Dirtiness: 0,5%

### PACKAGING

With shell: 20 kg pp bags

Without shell: 10 kg carton package

5 kg vacuum pack



## PEANUT

### TYPES

Refined	With shell
Raw/Fried	Raw/Fried

### NEW CROP

October

### GRADES

Extra class; High class; Medium class; Confectionary

### COUNTS/SIZES

With shell Per ounce: 11/13; 13/15; 15/18

Refined Per ounce: 45/55; 50/60; 60/70; 70/80

### QUALITY

With shell: Moisture: 6% Dirtiness: 1%

Refined: Moisture: 8% Dirtiness: 1%

### PACKAGING

With shell: 17 kg pp bags

Without shell: 5–10 kg carton package

## ALMONDS

### VERITIES

Sweet | Bitter

### TYPES

With shell | Without shell

### NEW CROP

July – August

### GRADES

High class; Medium class

### QUALITY

Moisture: 6% Dirtiness: 1%

### PACKAGING

With shell: 20 kg pp bags

Refined: 10 kg carton package 5 kg vacuum pack



## Dried vegetables

## SESAM

### TYPES

Without shell | Refined

### NEW CROP

September

### GRADES

High class; Medium class

### QUALITY

Moisture: 6% Dirtiness: 1%

### PACKAGING

50 kg pp bags



## CAPERS

### VERITIES

Capers Spinoza

### NEW CROP

May

### GRADES

Extra class; High class; Medium class

### COUNTS/SIZES

7–8 mm; 8–9 mm; 9–11 mm; 11–13 mm

Not calibrated

### QUALITY

Salted

### PACKAGING

80–100 kg drums



## Meat products



### CHORIZO

Chorizo - smoked sausage, especially popular in Latin America, Portugal and Spain. A distinctive feature of this sausage is the rust-red color of the product, which gives the paprika sausage to ChORIZO sausage, which is necessarily added to the meat.

Product storage conditions	t 2-6°, 4 months
The thermal state of the product	Chilled
Nutritional value of 100 g of product	Protein — at least 20 g Fats - not more than 44 g Calories — 476 kca



### ALPIAN C/K

Cervelat Alpine is a delicious variety of smoked dry sausage. For the preparation of sausage, the ALPINE meat is not ground, but chopped into very small pieces. In addition to meat, minced meat contains finely ground bacon. The sliced sausage on the cut has a distinctive pink or dark red color.

Product storage conditions:	t 2-6°, 4 months
The thermal state of the product	Chilled
Nutritional value of 100 g of product	Protein — at least 16 g Fats - not more than 58 g Calories — 586 kca



### KRAKOWSKA first grade

Product storage conditions:	t 2-6°, no more than 15 days
The thermal state of the product	Chilled
Nutritional value of 100 g of product	Protein — at least 16 g Fats - not more than 35 g Calories — 387 kca

## NECK SMOKED

The neck is produced from the front of the pork carcass, has a delicate texture of meat with thin streaks of fat. Smoked pork neck taste is delicate, spicy and slightly spicy.

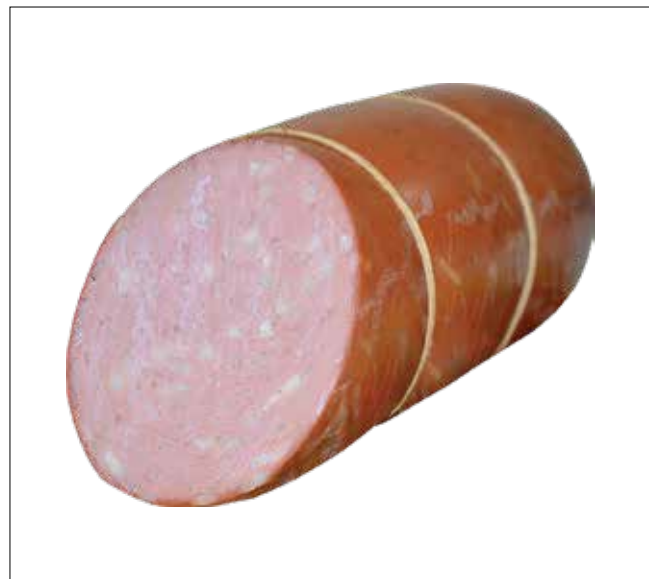
Product storage conditions:	t 2-6°, no more than 10 days
The thermal state of the product	Chilled
Nutritional value of 100 g of product	-



## MOSCOW

A little pungent taste and aroma of cardamom, a pink slice interspersed with juicy bacon — an appetizing loaf of large diameter in natural bark. The shell emphasizes the natural taste of the sausage and gives a rich appearance.

Product storage conditions:	t 2-6°, no more than 20 days
The thermal state of the product	Chilled
Nutritional value of 100 g of product	Protein — at least 13 g Fats - not more than 30 g Calories — 387 kca



## CANADIAN top grade

Product storage conditions:	t 2-6°, no more than 10 days
The thermal state of the product	Chilled
Nutritional value of 100 g of product	Protein — at least 10 g Fats - not more than 35 g Calories — 355 kca





## Canned goods



Pickled cucumber delicacy with garlic and dill  
9-12 cm 720 ml



Pickled cucumber delicacy with garlic and dill  
3-6 cm 720 ml



Pickled Tomatoes «Marinelle» 720 ml



Pickled Tomatoes and cucumber «Marinelle» 2000 ml



Squash paste «Marinelle» 500 ml



Eggplant paste «Marinelle» 500 ml

## Milk Products



Yogurt Miro (Peach) 5% (115 g)



Fruit yogurt Snack (Banana) 6%



Miro yogurt (Wild berries) 5% (115 g)



Fruit yogurt Snack (Strawberry) 6%



Kefir 0.5% (500 g)



Ryazhenka 2.5% (500 g)



## Milk Products



Sour cream 20% (450 g)



Cream 35% (200 g)



Milk 3.2% (1 liter)



Brynza 21.2% (kg)



Cheese 40% (kg)



Butter oil 82.5% (20 kg)



## Juices



Minions Nectar Peach



Apple nectar with pulp



Quince Nectar



Nectar Berry Mix



Peach Nectar



Orange Drink



## Соки



Pomegranate Drink



Drink Multifruit



Nectar Exotic



100% Tomato Juice



Nectar Blackcurrant

## Confectionery products

### Chocolate paste

#### Chococream 200 g

Delicate taste and pleasant aroma of chocolate and nut paste.



Product weight	Quantity in a box	Box gross weight	Box size	Number of boxes on a pallet	Shelf life
200 g	16 p.	3,9 kg.	37x29,5x8 cm.	120 p.	6 months.

#### Chococream 400 g

Delicate taste and pleasant aroma of chocolate and nut.



Product weight	Quantity in a box	Box gross weight	Box size	Number of boxes on a pallet	Shelf life
400 g	12 p.	5.32 kg.	32X21,5X18 cm	80 p.	6 months.

#### Chocotella Duo 330 g

The perfect combination of gourmet milk chocolate and walnut.



Product weight	Quantity in a box	Box gross weight	Box size	Number of boxes on a pallet	Shelf life
330 g	12 p.	7,09 kg	34X24,5X12,5 cm	120 p.	6 months.



## Candies



### Estello brown

Estello - premium candy. The special taste is achieved thanks to the unique combination of cocoa and natural milk.

Weight goods in the box	Box gross weight	Box size	Number of boxes on a pallet	Shelf life
2,5 kg	2,7 kg	36x22,5x12,5 cm	165 p	6 months.



### Estello orange truffles

Estello - premium candy. The special taste is achieved thanks to the unique combination of cocoa and natural milk.

Weight goods in the box	Box gross weight	Box size	Number of boxes on a pallet	Shelf life
2,5 kg	2,7 kg	36x22,5x12,5 cm	165 p	6 months.



### Valencia gold

Valencia sweets will take you to Spain for a moment, and you will smell and taste Valencia. Valencia - a romantic life in one candy.

Weight goods in the box	Box gross weight	Box size	Number of boxes on a pallet	Shelf life
2,5 kg	2,7 kg	36x22,5x12,5 cm	165 p	6 months.

## Icing cookies



### Bitten with dark icing and milk filling

Great combination of chocolate with filling and biscuits.

Weight goods in the box	Box gross weight	Box size	Number of boxes on a pallet	Shelf life
3 kg	3,2 kg	37x22x11 cm	165 p	3 months

## Bitten Max with Milk Frosting and Dark Filling

More chocolate stuffed than cookies.



Weight goods in the box	Box gross weight	Box size	Number of boxes on a pallet	Shelf life
3 kg	3,2 kg	37x22x11 cm	165 p	3 months.

## Biscuit Pancakes

### Pankie with apricot filling

Biscuit fritters in individual packaging flow-pack — a new taste in modern life.



Product weight	Quantity in a box	Box gross weight	Box size	Number of boxes on a pallet	Shelf life
250 g	10 p.	3,0 kg.	32x24x21,5 cm.	110 p.	5 months.

### Pankie with Apple Filling

Biscuit fritters in individual packaging flow-pack - a new taste in modern life.



Product weight	Quantity in a box	Box gross weight	Box size	Number of boxes on a pallet	Shelf life
1200 g	4 p.	5,5 kg.	43X28X26 cm.	48 p.	5 months

## Biscuit cake

### Riolla with chocolate filling

Biscuit bars in individual packing flow-pak.



Product gross weight	Box size	Number of boxes on a pallet	Shelf life
1170 g	40X24X7 cm.	90 p.	5 months.



## Souffle Cake



### Cake souffle with chocolate filling

Souffle Okayk cake with juicy and delicate cocoa filling. Magical taste - which is impossible to resist.

Product gross weight	Box size	Number of boxes on a pallet	Shelf life
1750 g	40X25X16 cm.	90 p.	6 months.

## Soft waffles



### Velona with apricot filling

Soft Viennese waffles individually wrapped.

Product weight	Quantity in a box	Box size	Number of boxes on a pallet	Shelf life
1200 g	4 p.	43x28x26 cm.	48 p.	5 months.



### Velona with chocolate filling

Soft Viennese waffles individually wrapped.

Product gross weight	Box size	Number of boxes on a pallet	Shelf life
1170 g	40X24X7 cm.	90 p.	5 months.

## Biscuit



### Glazed shortbread cookies with "tube" filling

Weight, g	Box weight, kg	Shelf life, months
-	1,5	3



### Sugar Cookies in Sweet Sticks Glaze

Weight, g	Box weight, kg	Shelf life, months
-	1,5	6

## Caramel

### Caramel lollipop

Since childhood, familiar, sweet caramel candy with a variety of fruit flavors.

Weight, g	Box weight, kg	The number of blocks in the box, p.	Shelf life, months
2,000	4	2	6



### Caramel with fruit and berry filling

Fragrant caramel with a variety of fruit and berry fillings in a convenient package.

Weight, g	Box weight, kg	The number of blocks in the box, p.	Shelf life, months
400	4	10	6



## Ice cream

### Pankie Creamy Ice Cream Cake

Elements of chilling

Product gross weight	Box size	Number of boxes on a pallet	Shelf life
1750 g	40X25X16 cm.	90 p.	3 months



### Velona creamy ice cream cake

Viennese waffles and ice cream

Product gross weight	Box size	Number of boxes on a pallet	Shelf life
1750 g	40X25X16 cm.	90 p.	3 months





## Sandwich Butter



### Swedish 82%

Sandwich butter, fat content 82%, 500 g. Swedish morning freshness.

Product weight	Quantity in a box	Box gross weight	Box size
5 kg	10 p	5,5 kg	29X21X13 cm



### Donna Creamy 82%

Sandwich butter, fat content 82%, by weight. According to old traditions.

Product weight	Quantity in a box	Box gross weight	Box size
5 kg	10 p	5,5 kg	32X21,5X11,5 cm

## Margarine



### Donna 250 g

Classic margarine, 72% fat.

Product weight	Quantity in a box	Box gross weight	Box size
250 g	25 p	6,8 kg	32X21,5X11,5 cm



### Santo 200 g

Margarine with butter, fat content 72%.

Product weight	Quantity in a box	Box gross weight	Box size
200 g	30 p	6,5 kg	32,2X23X11,3 cm



## Pasta

### Hot Lunch 700 g

Short cut pasta

Product weight	Quantity in a box	Box gross weight	Box size	Shelf life
700 g	16 p.	11,7 kg.	60x25x30 cm.	2 года



### Hot Lunch 400 g

Long sliced pasta, spaghetti.

Product weight	Quantity in a box	Box gross weight	Box size	Shelf life
400 g	20 p.	8,5 kg.	35x28x22 cm.	2 года



### Pasta Di Lucho 450 g

Short cut pasta.

Product weight	Quantity in a box	Box gross weight	Box size	Shelf life
450 g	18 p.	8,5 kg.	49x25x23 cm.	5 months.



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