



**KARACHAROVSKY
MECHANICAL FACTORY**
SINCE 1950

FLAGSHIP OF RUSSIAN ELEVATOR MANUFACTURING

CATALOG | 2025



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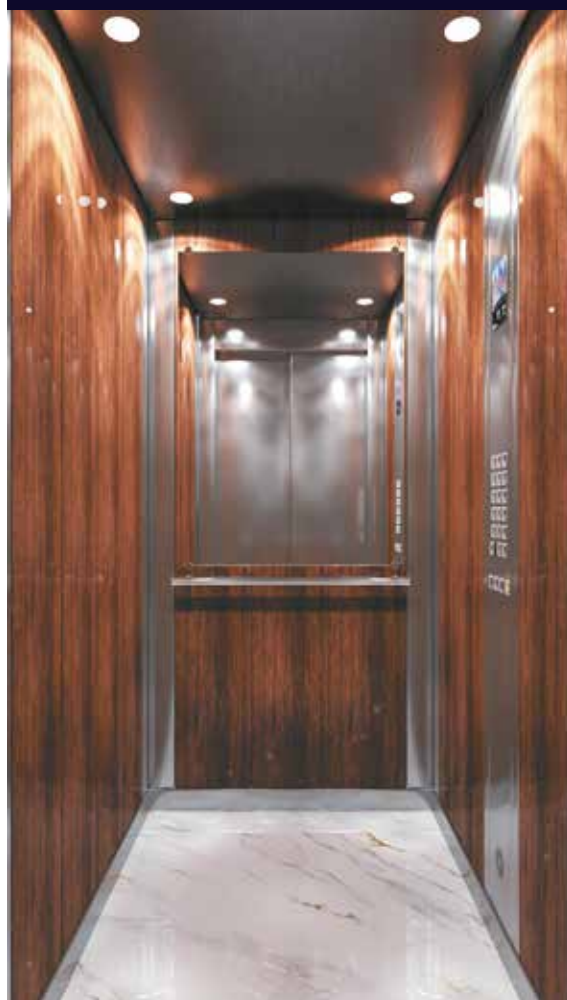
Ryazanskiy Prospekt, 2
Moscow, 109052



KARACHAROVSKY
MECHANICAL FACTORY
SINCE 1950

75 YEARS

WE MAKE ELEVATORS



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OUR MISSION

PROVIDE MODERN CITIES WITH COMFORTABLE,
RELIABLE, AND SAFE ELEVATORS

TURNKEY SOLUTIONS



SALE

- Expert advice on equipment selection
 - Flexible pricing
 - Customer focus



PRODUCTION

- Production in Moscow
 - Modern equipment
 - High localization
- Productoin control at all stages
- Modern high technology materials



SERVICE

- Own spare parts warehouse
 - 70 mobile teams
 - Modernization



ENGINEERING

- Elevator design of any complexity according to customer requirements
- Full compliance with standards and regulations (GOST, Customs Union, fire safety)
- BIM-design



INSTALLATION

- Qualified installation and commissioning
- Installation supervision service
- Installation of doorway portals
- Construction and finishing work in the shaft, machine room and pit
- Obtaining a Declaration of Conformity with the Technical Regulations «On Elevator Safety»
- Commissioning



REPAIR

- Inspection of an elevator and preparation of a report
- Dismantling and installation of equipment, commissioning, construction finishing
- Equipping the elevator with a modern dispatch control system*

*option



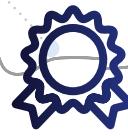
OUR ADVANTAGES

The KMZ plant is one of the largest elevator manufacturers in Russia.

With 75 years of experience, we know everything about elevators and even more.



>100



TURNKEY SOLUTIONS

Turnkey solutions for elevator projects, from ordering to servicing materials

WIDE MODELS SELECTION

Over 100 elevator models and a wide range of materials and options

PRODUCTION IN MOSCOW

A unique in-house production facility with modern equipment, a testing center and a laboratory

ELEVATOR PER 10 DAYS

Localization of production allows us to produce a standard elevator within 10 days

HIGH QUALITY

Quality control at all stages of equipment production

WARRANTY

Flexible warranty period, can be extended optionally upon request

PRODUCT ADVANTAGES



OWN ENGINEERING SOLUTIONS

In-house security and control devices



MODERN WINCHES

Winch of our own production



VARIABLE FREQUENCY DOOR DRIVE

Reliable and easy to adjust for a smooth ride



ENERGY SAVING

Energy savings in standby mode and while in motion



CONTINUOUS LIGHT CURTAIN OF THE DOORWAY

Security guarantee



STRAIN GAUGE SENSORS

Perfect balance in any position



SECURITY NODES

own engineering and production



VIDEO SURVEILLANCE

in the cabin for any elevator model*

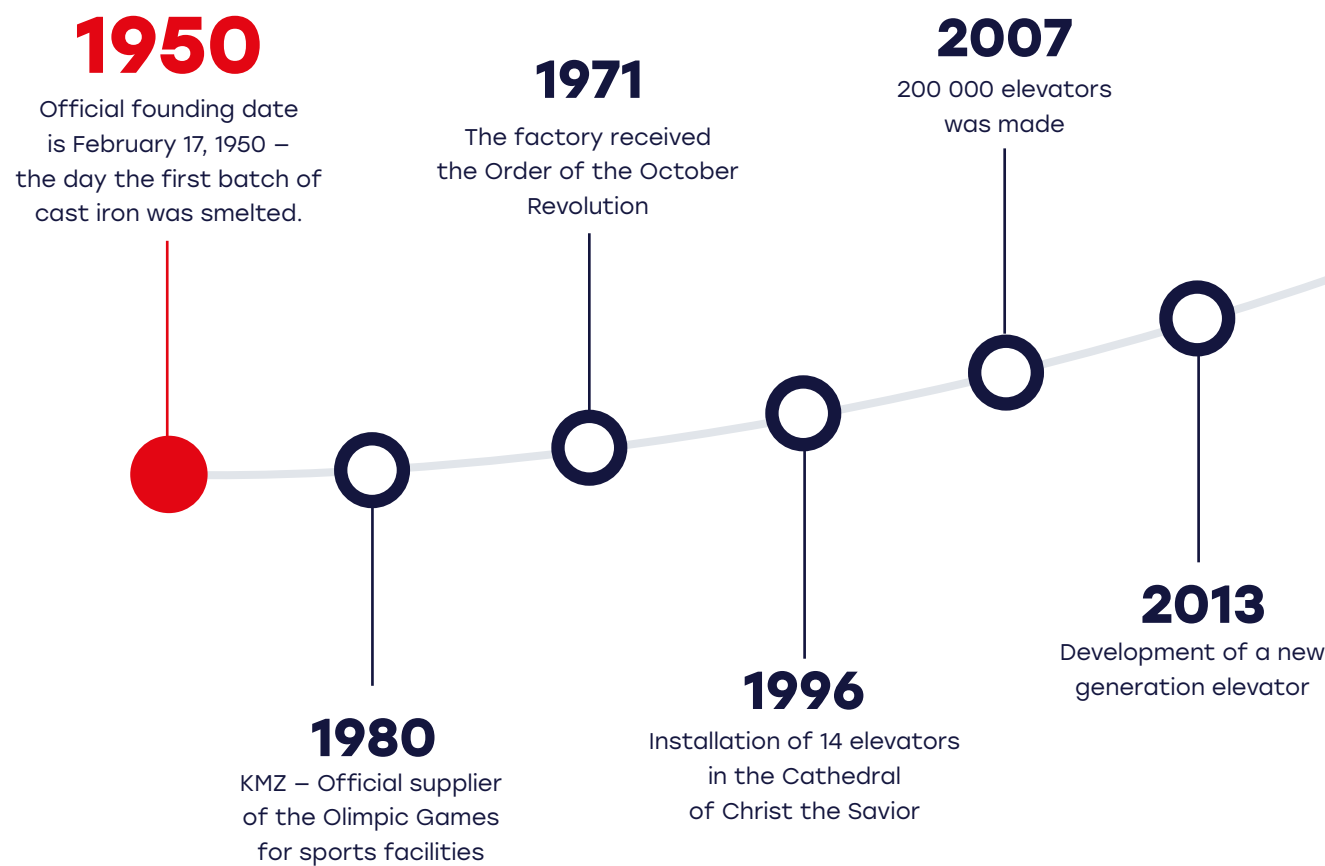
* option

OUR HISTORY

KMZ – time-tested reliability!

Founded during the USSR industrialization, KMZ became an important part of the domestic elevator industry. Specializing in the production of vertical lifts, the factory has provided and continues to provide the construction and housing and utilities industries with high-quality products.

Today, KMZ combines decades of experience with modern technology, remaining true to its traditions of precision and durability.



1950: the day the first batch of cast iron was smelted.



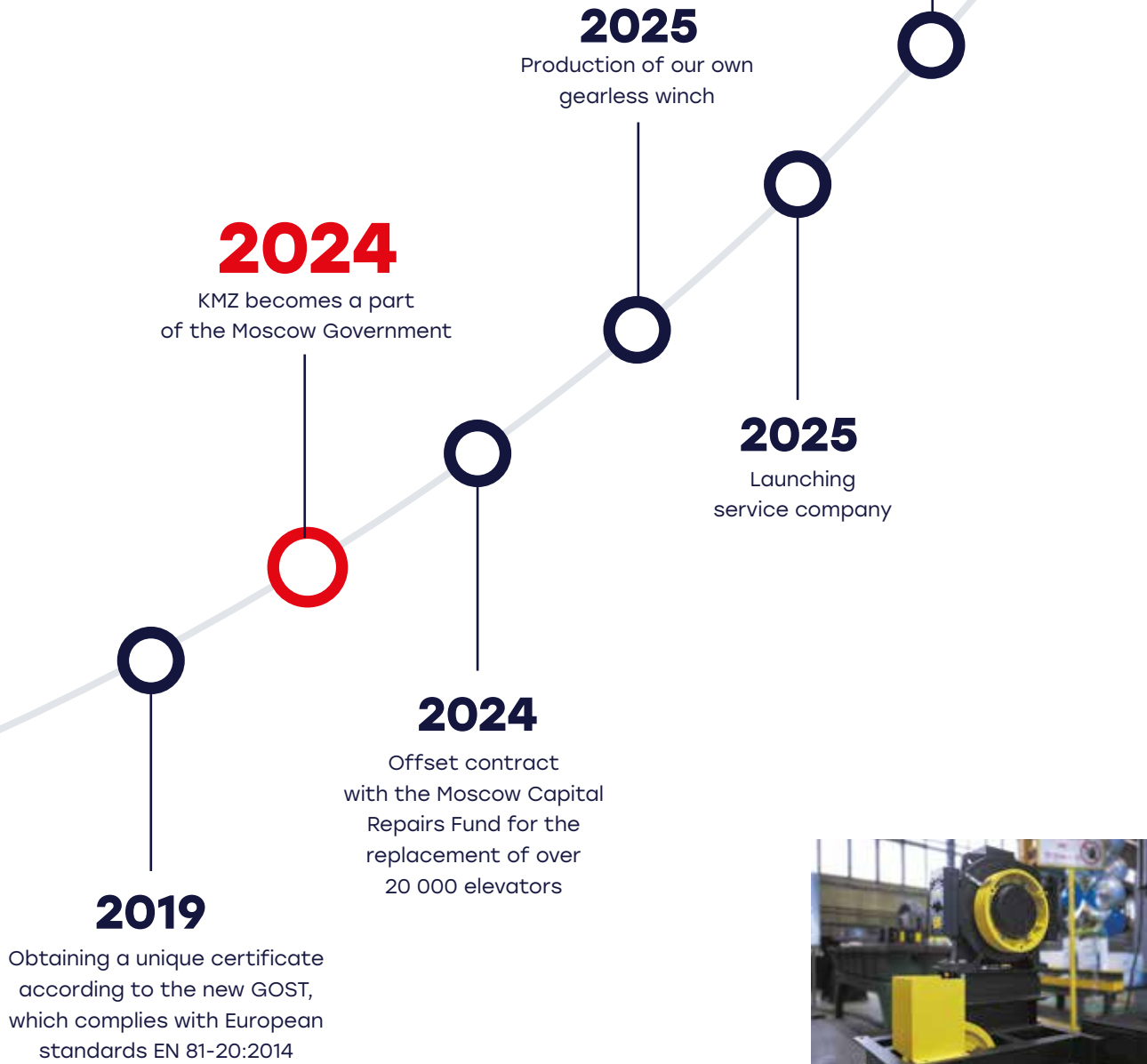
1980: Official supplier of the Olympic Games for sports facilities



2019: Certificate according to the new GOST



2025: Production of our own gearless winch



OUR ELEVATORS



LIFTING CAPACITY
FROM 250 TO 5000* KG

*for cargo-passenger versions



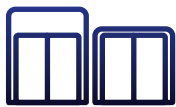
SPEED
FROM 1 TO 4 M/S

We design both standard and high-speed elevators for high-rise buildings.



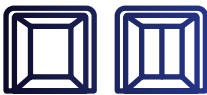
DESIGN

A wide selection of trim options both standard and custom



MACHINE ROOM

The elevator can be supplied with or without a machine room depending on the tasks



DOORS

The cabin can be either single-entry or walk-through. The opening width ranges from 600 to 2400 mm.



ADAPTABILITY

Equipment for transporting passengers in wheelchairs and people with limited mobility



FIRE SAFETY

The elevator can be designed for transporting fire brigades and equipped with a fire hatch.*

* Опция

CABIN MODELS

AIR



MOSKVICH



ONIX



ALTIUS



SIRIUS+



SIRIUS



PANORAMUS



MOSKVICH

The Moskvich passenger elevator is a unique development, the result of a collaboration between two legendary Moscow factories: Moskvich and KMZ. The elevator incorporates all modern design trends and innovative technologies, while meeting all safety and passenger comfort standards.

DESIGN FEATURES OF THE COUPE

- 1

Suspended ceiling
- 2

LED shaped Lighting
- 3

Built-in mirror with 24 inch screen
- 4

Contrasting inserts between the panels
- 5

Wide corner shields
- 6

Hanging COP
- 7

Overlay baseboard
- 8

Semicircular handrail



3D-PANORAMA OF A CABIN

Point your phone camera at the QR code to see the cabin from the inside



EXAMPLES

Ceiling	Mirrored stainless steel	Ceiling	Mirrored stainless steel
Walls	Glossy black metal and painted panels	Walls	Brushed colored stainless steel and painted panels
Inserts	Black plastic	Inserts	Black plastic
Post	Hanging glass	Post	Wall-mounted glass
Baseboard	Glossy black metal	Baseboard	Glossy black metal-plastic
Floor	PVC	Floor	Black porcelain tile
Signage	4 inch monochrome LCD	Signage	4 inch monochrome LCD
Handrail	Polished stainless steel	Handrail	Polished stainless steel in a case



AIR

The Air passenger elevator is an innovative development by the KMZ plant, created in line with contemporary design trends. Stunning lighting divides the cabin into two sections, creating a sense of infinity and airiness in the huge mirror. The ability to combine different materials makes the cabin versatile, adapting to any design and budget while maintaining the unique and original design.

DESIGN FEATURES OF THE COUPE

- 1

Combined ceiling
- 2

LED lighting around the cabin perimeter
- 3

Built-in mirror
- 4

Narrow corner shields
- 5

No baseboard
- 6

Built-in COP
- 7

Straight or round handrail



3D-PANORAMA OF A CABIN

Point your phone camera at the QR code to see the cabin from the inside



EXAMPLES

Ceiling:	Metal-plastic and colored stainless steel	Ceiling:	Metal-plastic and painted steel
Walls	Metal-plastic and colored stainless steel	Walls	Metal-plastic and painted steel
Post	Built-in	Post	Wall-mounted glass
Floor	Light porcelain stoneware	Floor	Porcelain tile
Scoreboard	Colored TFT 8'	Scoreboard	Monochrome 4» LCD
Handrail	Polished stainless steel	Handrail	Polished stainless steel



ONIX

The original design of the Onyx passenger elevator features LED ceiling lighting extending to the side panels and an 8' TFT display. A cabin motion protection system is also included.

DESIGN FEATURES OF THE COUPE

- 1

Built-in ceiling
- 2

LED lighting patterned, transitioning to the walls
- 3

Built-in mirror
- 4

LED inserts between panels
- 5

Built-in COP
- 6

Overlay baseboard
- 7

Made of metal-plastic
- 8

Semicircular handrail



3D-PANORAMA OF A CABIN

Point your phone camera at the QR code to see the cabin from the inside



EXAMPLES

- Ceiling:

Colored stainless steel
- Walls

Glossy black metal-plastic
- Post

Built-in, glossy black metal-plastic
- Floor

Dark porcelain tile
- Scoreboard

Colored 8' and 3.8' TFT
- Handrail

Semi-circular, polished stainless steel



- Ceiling:

Colored stainless steel
- Walls

Colored stainless steel
- Post

Built-in, colored stainless steel
- Floor

Light porcelain stoneware
- Scoreboard

Colored TFT 8' and TFT 3.8'
- Handrail

Semi-circular, polished stainless steel



ALTIUS

The Altius elevator combines modern technology, elegant design, and the ability to be fully customized to suit your interior or architectural design. A variety of materials are available – stainless steel, glass, wood, ceramic, or exclusive panels of your choice.

DESIGN FEATURES OF THE COUPE

- 1

Suspended ceiling
- 2

Solid LED lighting
- 3

Built-in mirror
- 4

Increased width of shields
- 5

Built-in COP
- 6

No baseboard
- 7

Without corner shields
- 6

Semicircular handrail



3D-PANORAMA OF A CABIN

Point your phone camera at the QR code to see the cabin from the inside



EXAMPLES

- | | | | |
|-------------------|--|-------------------|---|
| Ceiling: | Colored stainless steel | Ceiling: | Brushed stainless steel |
| Walls | Colored stainless steel | Walls | Brushed stainless steel |
| Post | Wall-mounted glass with sensor buttons | Post | Built-in, brushed stainless steel |
| Floor | Beige porcelain tile | Floor | Wear-resistant PVC coating |
| Scoreboard | Monochrome LCD display | Scoreboard | Colored TFT 8' and TFT 3.8' |
| Handrail | Straight with wood inserts | Handrail | Semi-circular, polished stainless steel |



SIRIUS+

The Sirius line features an improved design with additional options. Its modern design allows for installation in Comfort-class buildings, adapting it to any design project. At the same time, the Sirius+ retains all the versatility of the Sirius model.

DESIGN FEATURES OF THE COUPE

- 1

Suspended ceiling
- 2

LED shaped lighting
- 3

Built-in mirror
- 4

Narrow corner shields
- 5

Wide corner shields
- 6

Built-in COP
- 7

Overlay baseboard
- 8

Semicircular handrail



3D-PANORAMA OF A CABIN



Point your phone camera at the QR code to see the cabin from the inside

EXAMPLES

- Ceiling:**

Colored stainless steel
- Walls**

Glossy black metal-plastic
- Inserts**

White plastic
- Post**

Glossy black metal-plastic
- Baseboard**

Glossy black metal-plastic
- Floor**

Dark porcelain stoneware
- Signage**

Colored 8' and 3.8' TFT
- Handrail**

Polished stainless steel
- Ceiling:**

Colored stainless steel
- Walls**

RAL color palette
- Inserts**

Black plastic
- Post**

Glossy black metal-plastic
- Baseboard**

RAL color palette
- Floor**

Dark porcelain stoneware
- Signage**

Colored 8' and 3.8' TFT
- Handrail**

Polished stainless steel



SIRIUS

A classic elevator design with LED lighting, corner inserts, and a composite COP. A built-in protection system prevents uncontrolled cabin movement. The versatile design allows the elevator to fit into a wide range of shaft sizes, including installation in shafts with minimal dimensions.

DESIGN FEATURES OF THE COUPE

- 1

Built-in ceiling
- 2

Spotlights
- 3

Overhead mirror
- 4

Corner inserts
- 5

Straight handrail
- 6

Overlay baseboard
- 7

Composite built-in COP



3D-PANORAMA OF A CABIN



Point your phone camera at the QR code to see the cabin from the inside

EXAMPLES

Ceiling	Brushed Stainless Steel	Ceiling	Brushed stainless steel
Corner Inserts	Brushed Stainless Steel	Corner Inserts	Brushed stainless steel
Handrail	Polished Stainless Steel	Handrail	Polished stainless steel
Walls	Chestnut Metal-Plastic	Walls	RAL color palette
Baseboard	Brushed Stainless Steel	Baseboard	Brushed stainless steel
Floor	Light Porcelain Tile	Floor	Light rubber coating
Signboard	Colored TFT 8'	Signboard	8' color TFT



PANORAMUS

Panoramus is a modern and elegant engineering solution that combines functionality and aesthetics. Its main feature is its transparent walls made of triple-layer tempered glass, providing a panoramic view while driving.

DESIGN FEATURES OF THE COUPE

- 1

Built-in ceiling
- 2

Spotlights
- 3

Glass insert racks
- 4

Straight handrail around the perimeter
- 5

Composite built-in COP
- 6

baseboard flush with the wall



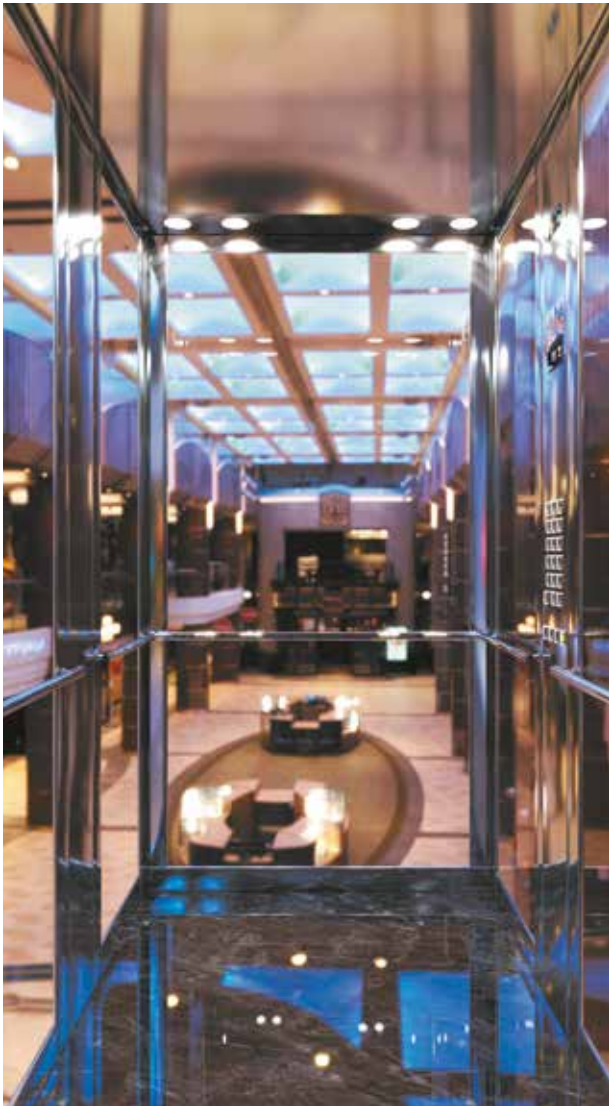
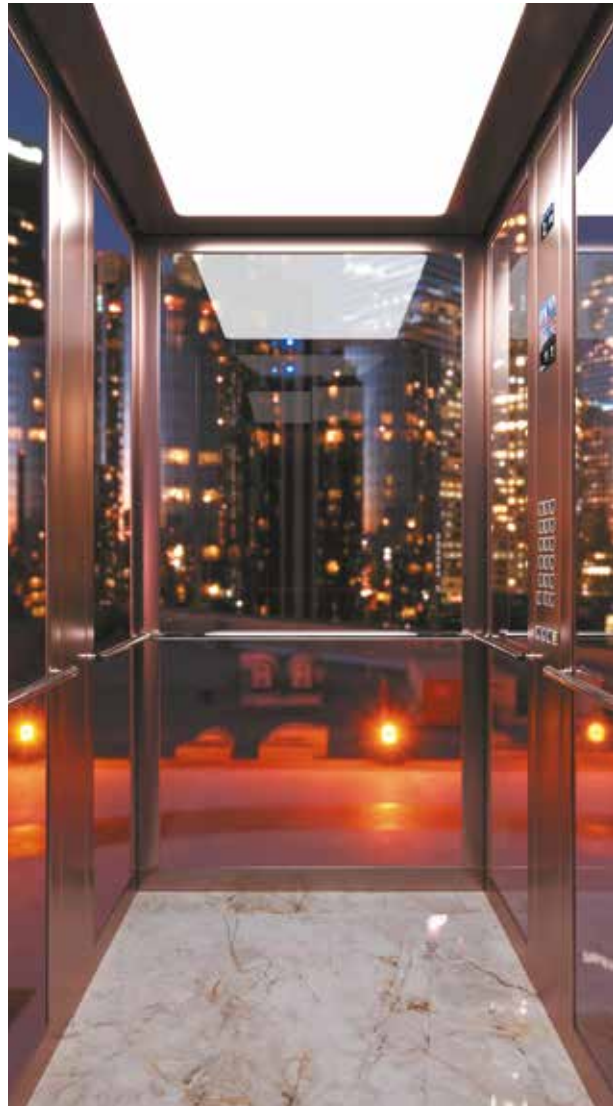
3D-PANORAMA OF A CABIN

Point your phone camera at the QR code to see the cabin from the inside



EXAMPLES

Ceiling:	Colored stainless steel	Ceiling:	Brushed stainless steel
Posts	Colored stainless steel	Posts	Brushed stainless steel
Post	Built-in, colored stainless steel	Post	Built-in, brushed stainless steel
Floor	Light porcelain stoneware	Floor	Dark porcelain stoneware
Scoreboard	Colored TFT 8' and TFT 3.8'	Scoreboard	Colored TFT 8' and TFT 3.8'
Handrail	Straight, polished stainless steel	Handrail	Straight, polished stainless steel



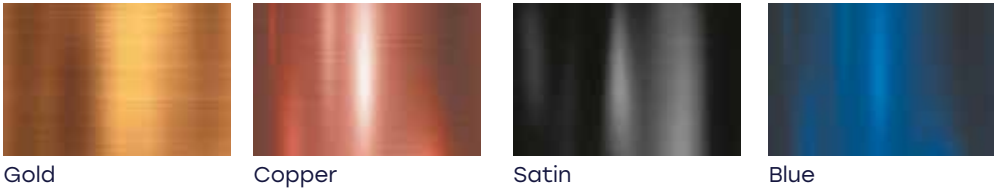
MATERIALS

WALLS, CEILING AND DOORS

STAINLESS STEEL



COLOR STAINLESS STEEL



METALLPLAST



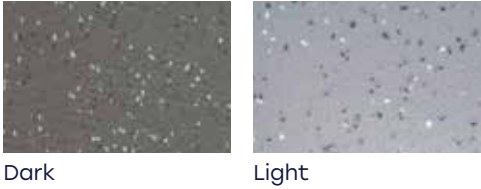
PAINTED STEEL



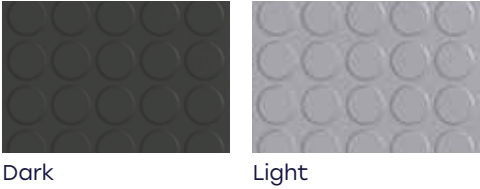
* Except ceiling

FLOOR

LINO



RUBBER



METALL

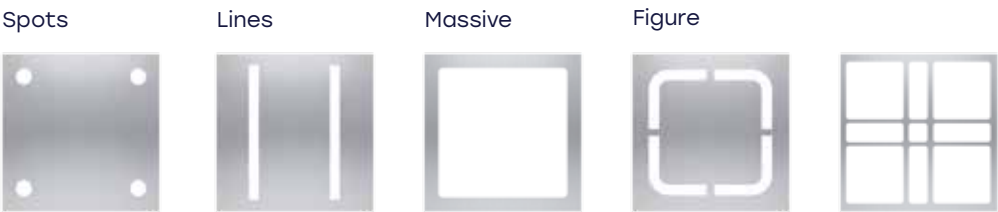


КЕРАМОГРАНИТ



OPTIONS CONFIGURATIONS

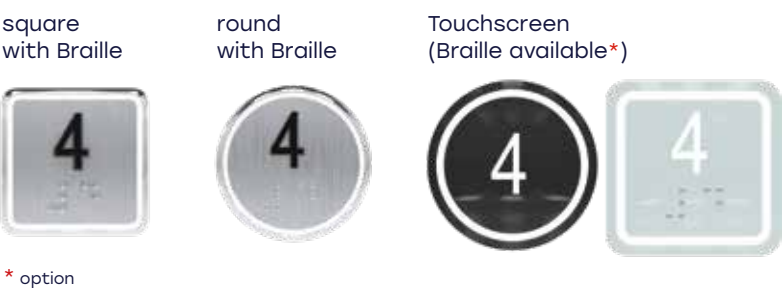
LIGHT



MIRROR



BUTTONS



HANDRAILS



COP AND SCREENS

All elevators manufactured by KMZ can be equipped with various types of control panels: built-in or wall-mounted. KMZ offers a range of control panels and displays in various price ranges and with various functionalities.

BASIS

Built-in, full-height cabin



Buttons



Screen

LCD 5,2"



TFT 4,4"



ELEGANT

Built-in, full-height cabin



Buttons



Screen

TFT 4,4"



TFT 8"



SENSORIC DARK

Suspended



Touch buttons



Screen

LCD 4"

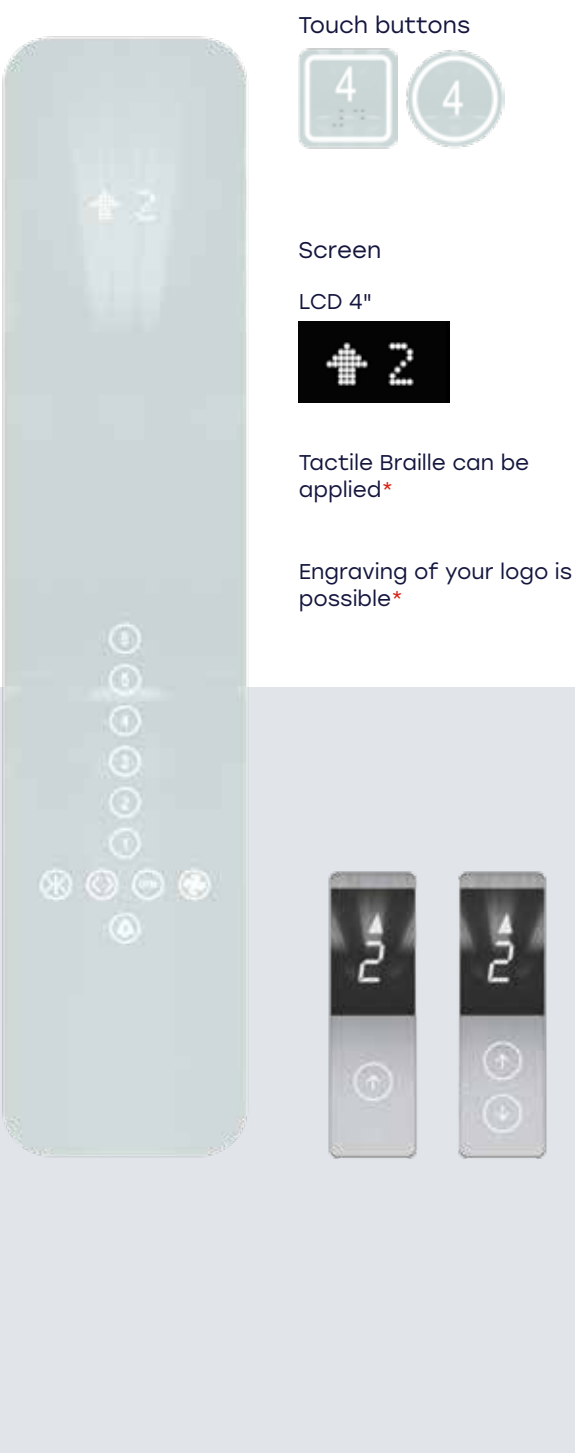


Tactile Braille can be applied*

Engraving of your logo is possible*

SENSORIC LIGHT

Suspended



Touch buttons



Screen

LCD 4"



Tactile Braille can be applied*

Engraving of your logo is possible*

OPTIONS

INFORMATION SCREEN

A mirror-mounted or wall-mounted screen for broadcasting informational messages and commercials



BACKLIGHT IN THE MIRROR

The decorative lighting in the mirror is a focal point for the residents of the house and their guests.



UNINTERRUPTIBLE POWER SUPPLY(UPS)

The UPS ensures automatic evacuation of passengers in the event of a power failure. Function: Provides power to the elevator control system to move the cabin to the next floor and open the doors.



CCTV CAMERAS

Vandal-proof CCTV cameras can be installed in any elevator cabin.



KEYLESS ENTRY

Modern technologies automatically control barriers, parking systems, utility rooms, entrances, and elevator equipment. KMZ integrates elevators into the modern city ecosystem, ensuring maximum safety, time savings, and unrivaled comfort.

THE CREATION OF A UNIFIED SMART URBAN ENVIRONMENT WITH KEYLESS ENTRY IS ALREADY A REALITY.

KEYLESS ACCESS OF THE KMZ SMART ELEVATOR IS:

- Meet the passenger on the 1st floor upon approach
- Contactless elevator call and delivery to the desired floor
- Elevator control from a smartphone
- Providing individual access for guests and service providers



CERTIFICATION

KMZ is the first elevator manufacturing plant in Russian Federation to certify its products in accordance with the new GOST standard, which is closely aligned with the European elevator equipment safety standard!

KMZ products have received Certificate of Conformity EAEU No. RU C-RU.LH81.V.00043/22 (confirming compliance with GOST 33984.1-2016), confirming their quality, which meets the highest international safety standards.

The updated GOST 33984.1-2016 was created with the aim of maximally harmonizing the safety standards of elevator equipment manufactured in the Eurasian Economic Union with the European standard EN 81-20:2014.



Certificate of Conformity for Passenger Elevators with the Requirements of the Customs Union Technical Regulation «Elevator Safety»



Certificates of conformity of safety components with the requirements of the Technical Regulations of the Customs Union «Elevator Safety»



Certificates of conformity of mine doors with the requirements of the Technical Regulations of the Customs Union «Elevator Safety»

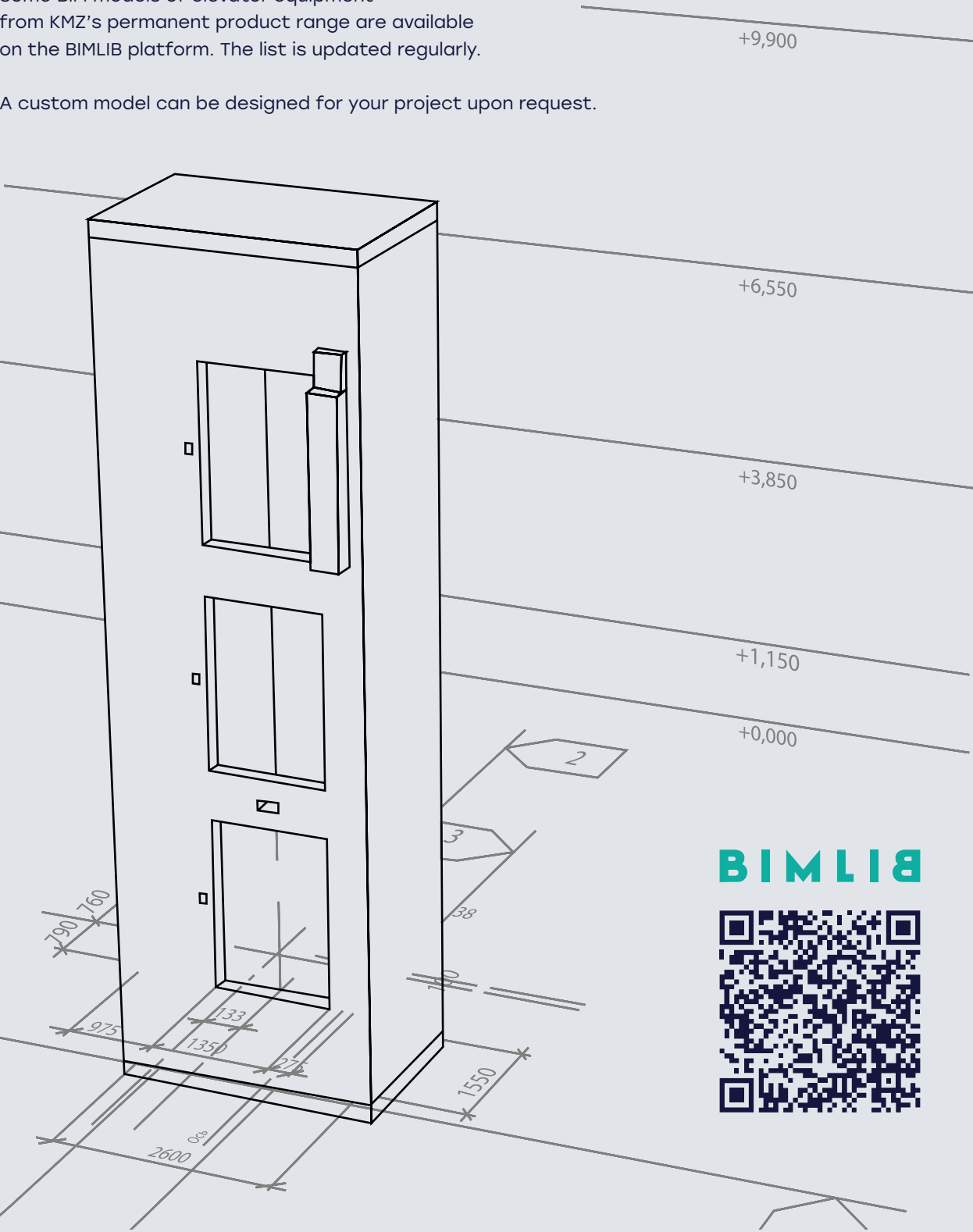
BIM DESIGN

KMZ keeps up with the times!

To facilitate building design, KMZ is actively integrating BIM into its work.

Some BIM models of elevator equipment from KMZ’s permanent product range are available on the BIMLIB platform. The list is updated regularly.

A custom model can be designed for your project upon request.



ABOUT FACTORY

FOUNDED	ELEVATORS MADE	TERRITORY	MANUFACTORY	WAREHOUSE
IN 1950'TH	>285 000	14,2 HA	34 500 m ²	27 500 m ²

10 000

PRODUCTION CAPACITY PER YEAR

>1300

HIGHLY QUALIFIED SPECIALISTS

TYPES OF MANUFACTURED
ELEVATOR EQUIPMENT

>100

EQUIPMENT WARRANTY

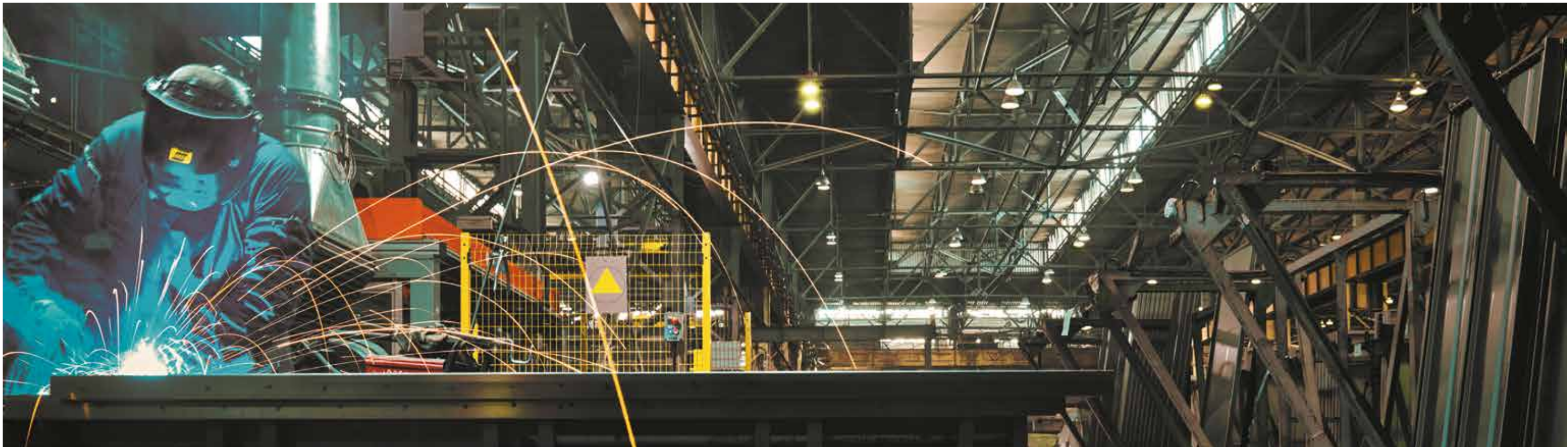
UP TO 5 YEARS

UNITS OF PRIMARY
PRODUCTION EQUIPMENT

>280

UNITS OF AUXILIARY
EQUIPMENT

>1300



WINCHES

GEARLESS WINCHES

Radial design
for passenger elevators
with machine room

lifting capacity
from 400 kg to 1000 kg

Speed
from 1.0 m/s to 1.6 m/s



Axial design
for passenger elevators
without a machine room
or with a machine room

lifting capacity
from 320 kg to 2500 kg

Speed
from 1.0 m/s to 2.5 m/s



FEATURES

Components
based on synchronous drives
with permanent magnets

Energy saving
The absence of mechanical transmissions
eliminates energy losses due to friction
in the gearbox. This reduces energy
consumption compared to geared winches

Ergonomics
The winch's small size allows it to be installed
directly in shafts, which optimizes the design
of elevator systems

No lubricating oil
Reduces maintenance costs and the risk
of oil leakage

Reduction of starting currents
This reduces heat loss in the supply wires
of the electrical network.

High reliability and durability
A simple design with a minimum number of moving
parts reduces the likelihood of breakdowns and
the need for frequent maintenance

High speed and accuracy
The use of an absolute encoder ensures precise
speed control and smooth stops

GEAR WINCHES

For passenger elevators
with machine room

lifting capacity
from 400 kg to 1000 kg

Speed
from 1.0 m/s to 1.6 m/s



FEATURES

Easy maintenance
Technical inspection and repair of gear winches
takes a minimum of time

Easy installation
The device is easy to install, and if dismantling
is necessary, it does not require the involvement
of specialists

Increased torque
The gearbox converts the engine's power into
the power needed to lift loads, increasing
the winch's power.

Right and left execution
with misalignment to order

Increased load capacity
The gearboxes are capable of handling heavy
loads without overloading or breakdowns.

Wear-resistant traction sheaves
Made of high-strength cast iron

CONTROL SYSTEMS

THE CONTROL DEVICE INCLUDES:

- Control unit (control cabinet)
- Positioning device
- Safety devices
- Electrical wiring (wiring)
- Control devices
- Information devices
- Communication devices
- Peripheral equipment

FEATURES

Voltage

Networks: 380 V (+10/-15%)
Control circuits:
110 V (-16/+11),
24 V (-3.6/+2.4)

Rated current

<63 A

Power when external consumers are disconnected

no more than 40 W

Terms of use

Temperature
from +5°C to +35°C
Humidity <80%

Type and frequency of power supply network

Three-phase
Russia and CIS: 50+1 Hz
Export: 60+1 Hz, 50+1 Hz

Ergonomics

Convenient installation,
setup and operation

UKL ELEVATOR CONTROL DEVICE

Economy

Reducing overhaul costs
by reducing the load
on the mechanism's dynamics
and kinematics

Energy saving

Reducing energy consumption
by eliminating losses in braking
and starting mechanisms

Smoothness

Smooth transition processes
and optimal elevator operation

Safety

Emergency evacuation
in case of power failure
based on a UPS (optional)

Ergonomics

Convenient installation,
setup and operation



FEATURES



Speed
up to 1.6 m/s



Number
of stops: 32



Maximum number of elevators
in a group: 4



Installation in elevators
with and without a machine
room



Dimensions
1600×600×250 (with MR)
2000×330×250 (without MR)



Control system type:
centralized

NKU ELEVATOR CONTROL DEVICE

Versatility

Transformer system
with switchable elevator
control principle: matrix
or distributed

Intelligence

- Voice control
- and voice announcer
- card access system
- remote monitoring
- data collection

Energy saving

Low power consumption
of the control system

Safety

Emergency evacuation
in case of power failure
based on a UPS (optional)

Design

Wall-mounted, vertical
or separate



FEATURES



Speed up to 6 m/s



Number
of stops: 64



Maximum number of elevators
in a group: 15



Installation in elevators
with and without a machine
room



Dimensions
1000×489×171



Control system type:
centralized
and distributed

INSTALLATION

High-quality and professional installation is 80% of successful operation.



Free express measurement



Warranty on work
up to 5 years



Installation supervision and
commissioning services



Making a project
for the installation
of an elevator



Declaration of Conformity
with the Technical Regulations
«On Elevator Safety»



Installing door frame frames

SERVICE

Comprehensive elevator service: regular maintenance, diagnostics and repair.



More than 60 mobile teams



24/7!
Response time
up to 30 minutes



Spare parts warehouse



REPAIR

Is your elevator outdated, noisy, or frequently breaking down? We'll perform a complete overhaul, replacing worn components, upgrading the control system, and restoring its appearance.

PACKAGE OFFER



Expert inspection of the
elevator and preparation
of a technical report



- Equipment dismantling and installation
- Commissioning
- Finishing of the machine room, shaft and pit



Equipping the elevator
with a modern dispatch
control system

OPTIONS



Making a new cabin design



Equipment modernization
and dispatching



Replacement of COP

