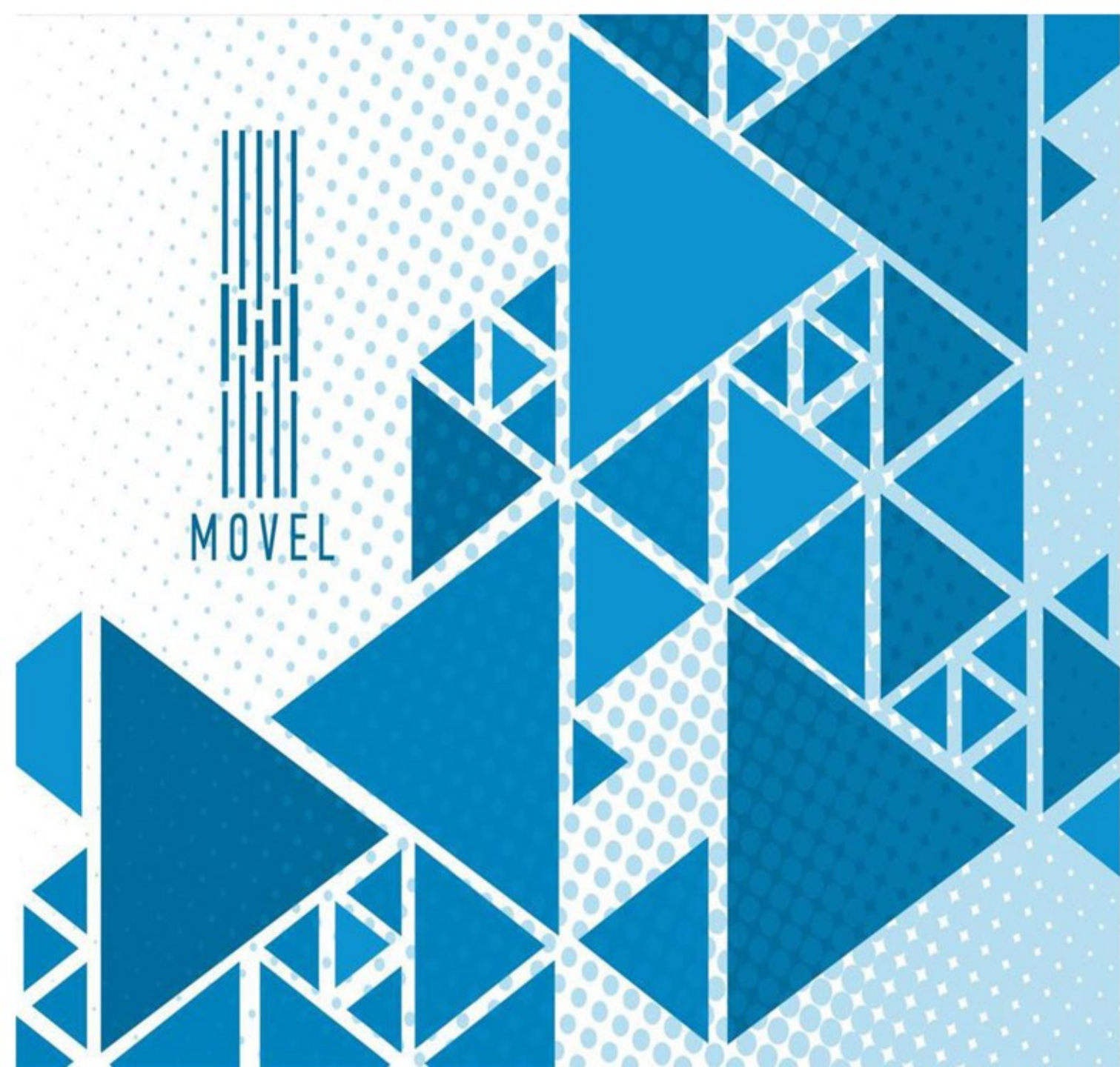




MOVEL



Company Introduction:

MOVEL NIGERIA LIMITED is a division of Joint Stock Company - JSC MOGILEVLIFTMASH, and is established to take care of the Africa Market with its head office in Lagos Nigeria.

JSC "MOGILEVLIFTMASH" was founded in October 1966 and is one of the leading enterprises of national machine-building industry in Europe with exponential growth in capacity and production.

It is a factory specialized on designing and manufacturing of a wide range of passenger and freight elevators (including elevators for the special / handicapped ones and other construction equipment), and has a great experience in working on the market of elevator equipment with high dedicated focus on after sales and installation maintenances.

Quality of our products is proved with half-a-century history, and more than 400,000 elevators were manufactured at the enterprise in the course of this period.

We are ready to offer a complete range of elevator equipment for new construction and also for repair, replacement and modification of old elevators. "Mogilevliftmash" is one of the leading manufacturers of hoisting equipment in Eastern Europe, and Annually the enterprises of the company produce more than 25 thousand elevators corresponding to the world standards in quality and safety

Elevators by Movel / Mogilev enterprise are considered to be bright implementation of innovative construction ideas realized within high-quality products. It is provided by:

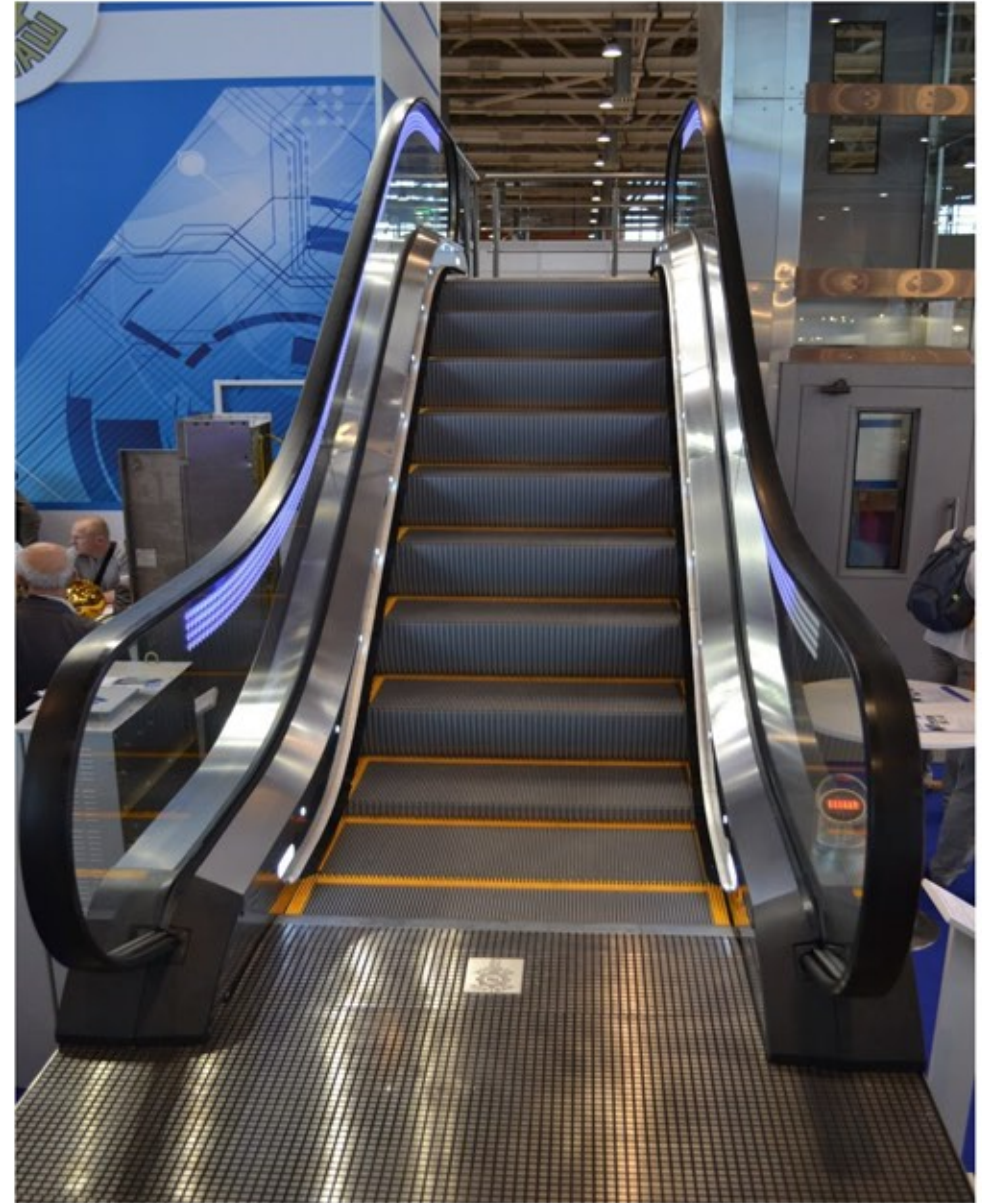
- constant technologies development,
- technical retooling and modernization,
- quality control of manufactured products and
- high professional level of the employees.

The company constantly widens range of manufactured products and has more than 130 elevator models:

- Passenger elevators with load-capacity of 225, 300, 320, 400, 450, 630, 1000, and 1275kg and the speed up to and including 2m/sec;
- Freight Elevators with Load-capacity of 100, 250, 500, 1000, 2000, 3200, 5000, and 6300kg;
- Elevator for Medical and preventive treatment institutions (Hospitals) with load-capacity of 500, 630, 1000, 1275, 1600, and 2000kg
- Hoisting platforms for handicapped people with load-capacity of 225kg.

- Within the scope of implementation of energy-saving program, the factory manufacture whole range of energy-saving elevators / equipment centered on green environment.
- The factory also manufacture wide range of the spare parts and equipment for repair works and modernizing of normally obsolete and worn-out elevators.
- In line to maintain high level of assurance with proactive response to all our installed products (including those installed by others but being maintained by us), it is always a priority for us to stock lots of elevator spare parts in any region where we are operating.
- We are a leading company in the manufacture of building equipment (Mast Passenger and Freight Hoist with load-capacity of 1500 and 2000kg and operating platforms- which gave account of itself.

- New and quality field of the enterprise's activity is the manufacture of floor-by-floor escalator EP-7040B.
- Included in our highly demanded product line are the manufacture of low forest cutters (choppers), Wood processing machine, Agricultural Winches for cultivation of garden areas and fodder shredders.



- Our elevators are either with MACHINE ROOM (MR) or MACHINE ROOMLESS (MRL).
- The passenger elevators are manufactured with doors of central and telescopic openings, and door apertures are 500, 650, 700, 800, 900, 1000, 1100, and 1200mm.
- The enterprise also mastered the manufacture of the elevators for transportation of the fire-fighting brigades, which are equipped with fire-proof doors of the shaft and the hatch within the ceiling dimensions of 700 x 500mm. This subject elevator is operated in both "Normal" and operating mode and as well as in "transportation of the fire-fighting brigades" mode.



OUR ELEVATORS ARE CHARACTERIZED BY:

- Smooth run and improved accuracy of the stop;
- Automatic Rescue Device (ARD)
- Comfortable cabin and reduced level of noise;
- Vandal-Protected control panels and calling posts with lighting of the buttons;
- Indicators of the movement direction and location of the cabin;
- Microprocessor-based control station;
- Frequency control of the main drive and the drive of the cabin doors;
- LED-based Lighting;
- Indication of the cabin's overload



MOVEL / MOGILEV ELEVATORS CAN BE ADDITIONALLY EQUIPPED WITH;

- Mirror;
- Ventilator;
- Indication display of the cabin location and overload with voice message;
- Access restriction device (Mechanical or Electronic Key);
- Non-standard designation of the stops;
- LCD display of indication of the cabin location and overload with voice message;
- Button with Braille Code;
- Video Monitoring within the cabin;
- Photo-barrier at the cabin door
- Intercom systems;
- Available contact for interfacing with FACP.



ADVANTAGE OF USING OUR GEARLESS WINCH (MACHINE);

- The winch is installed directly into the elevator shaft and saves space if compared to traditional winch; it has low weight and is adopted to requirement of contemporary architecture.
- Constant magnets create magnetic field without waste of electric energy for magnification of engine magnet system.
- Starting current is 2 to 3 times reduced if compared to gear winch; it contributes to reducing of heat loss within supply lines of electric grid; The smoothness of cabin's acceleration and deceleration (braking) makes transportation more comfortable for passengers and reduces noise and vibration in dwelling house.



ADVANTAGE OF USING OUR GEARLESS WINCH (MACHINE);CONTINUED.

- Reduction in total consumption of the elevator electric energy at 30% and above;
- Gearless drive at constant magnets does not suppose usage of machine oil and consequently its leakage; thus it reduces expenses for technical maintenance;
- Our Energy-saving elevator's main drive speed has lower weight, dimensions and prize when compared to traditionally applied double-speed drive.



CONTROL SYSTEM

- Lifts made by Joint Stock Company "Mogilevliftmash" are completed with a microprocessor control station, and is used for the passenger, freight and hospital lifts' control with the cabin movement speed up to 2 m/s (with single and group control).

Advantages of this system are:

- simplicity of mounting and repair;
- the reduced amount of wires;
- good remote system of self-diagnosis;
- jam-resistant, the serial interface of connection with a cabin (CAN).



CONTROL SYSTEM CONTINUATION...

For the convenience of our customers all our passenger elevators with the upper machine room are provided with speed controllers installed in control panel. This is due to the following advantages:

- Reduction of machine room space occupied.
- Simplify installation, as the speed controller is already installed and connected to the control panel.
- Wire savings - speed controller is located in the immediate proximity of the starter of the main drive.
- Reduce the likelihood of installation errors and settings as the connection and performance tested while manufacturing control panel.
- Increased reliability by reducing the likelihood of foreign objects and dust in the speed controller.

MOVEL'S PREVENTIVE AFTER SALES / INSTALLATION MAINTENANCE

THREE MONTH ROUTINE	MONTH & YEAR	MONTH & YEAR	MONTH & YEAR	MONTH & YEAR
Check, clean and lubricate car door restrictor device				
Check, clean and lubricate door protective and re-opening device				
Check and clean car gate switch and contacts				
Check, clean and lubricate Car door clutch, track, rollers and eccentrics				
Check and clean car and hoistway door lower guides				
All hoistway doors self-closing				
Check and clean hoistway door lock contacts and beaks				
Check, clean and lubricate hoistway door pickup rollers, hangers and rollers and eccentrics and closers				
Check and clean hoistway access devices and switches				
Check and clean hoistway door retainers and interconnecting means				

MOVEL'S PREVENTIVE AFTER SALES / INSTALLATION MAINTENANCE

Check and clean hoistway door panels and sight guards				
Thoroughly clean the machine room, replace any burnt light bulbs or tubes (bulbs and tubes provided by the Owner)				
Thoroughly clean the pit. Replace any burnt light bulbs or tubes (bulbs and tubes provided by the Owner)				
Thoroughly clean the car top. Replace any burnt light bulbs.				
Check and clean car top fan				
Check car top operator for proper operation				
Check packing glands of valves and cylinders and tighten or replace as necessary to prevent excessive loss of fluid. Oil leakage collected from the cylinder packing gland shall not exceed 20 L (4.5 gal) check condition and colour of the hydraulic oil, if oil appears to be contaminated identify on time ticket and advise Supervisor. Filter any oil that is being returned to the tank.				
Test all pit stop switches				
Check car and hall push button stations for operation, proper fastening and condition of the buttons.				

MOVEL'S PREVENTIVE AFTER SALES / INSTALLATION MAINTENANCE

SIX MONTH ROUTINE	MONTH AND YEAR	MONTH AND YEAR
Clean and check all controller components including: proper operation of relays, condition of contacts, coils, resistors, fuses (sizes), connection at terminals, overload settings and oil level in dash pots and vacuum and maintain controller clean and free from dirt.		
Check roller guides and slippers for condition and alignment. Ensure proper lubrication of rails where slippers are used.		
Check V-belts for wear, fraying, or cracking. Replace belts as a full matching set when required. Maintain a very tight tension.		
Ensure the cab fans are operational and grills are clean.		
Check all hoistway limit switches and safety operating switches for proper fastening and operation		
Check motor, bearings and motor windings of non-submersible motors.		
Test the Group Operation to ensure that all circuits and time settings are properly adjusted to suit building traffic conditions within the design capabilities of the system.		

MOVEL'S PREVENTIVE AFTER SALES / INSTALLATION MAINTENANCE

TWELVE MONTH ROUTINE	MONTH AND YEAR
Clean the hoistway equipment including hoistway ledges, projections; check brackets, rail fastenings and entrance fastenings. Make repairs as necessary.	
Test the battery operated emergency lowering feature to ensure that the elevator will not descend when the mainline disconnect switch is in the OFF position and that it complies with clause 3.26.10 of the B44 Code.	
Check total length of ALL traveling cables for wear and travelling cable hangers for tightness. Replace any badly worn travelling cables and beam protectors. If required provide metal beam protectors if the pad protectors are wearing.	
Measure up and down levelling times and ensure excessive levelling times are corrected. Times should not be any longer than 5 seconds.	
Test the overloads, clean and adjust as required; inspect main motor connections and clean and tighten where necessary.	
Adjust car and hall door dwell times to be between three (3) and five (5) seconds depending on configuration and number of elevators.	

MOVEL'S PREVENTIVE AFTER SALES / INSTALLATION MAINTENANCE

Test power closing force on horizontally sliding doors.
Ensure maximum force does not exceed 135 N (30 Lbs).

Test the closing time of the elevator doors for conformance with the data tag.

Test all redundancy circuits and verify their proper operation. Record the results of the tests in the log book.

Adjust speed control to provide smooth acceleration and deceleration with the design limitations of the equipment.

Test the emergency terminal speed-limiting device and emergency terminal stopping device to ensure conformity

Where provided, check the standby or emergency power operation

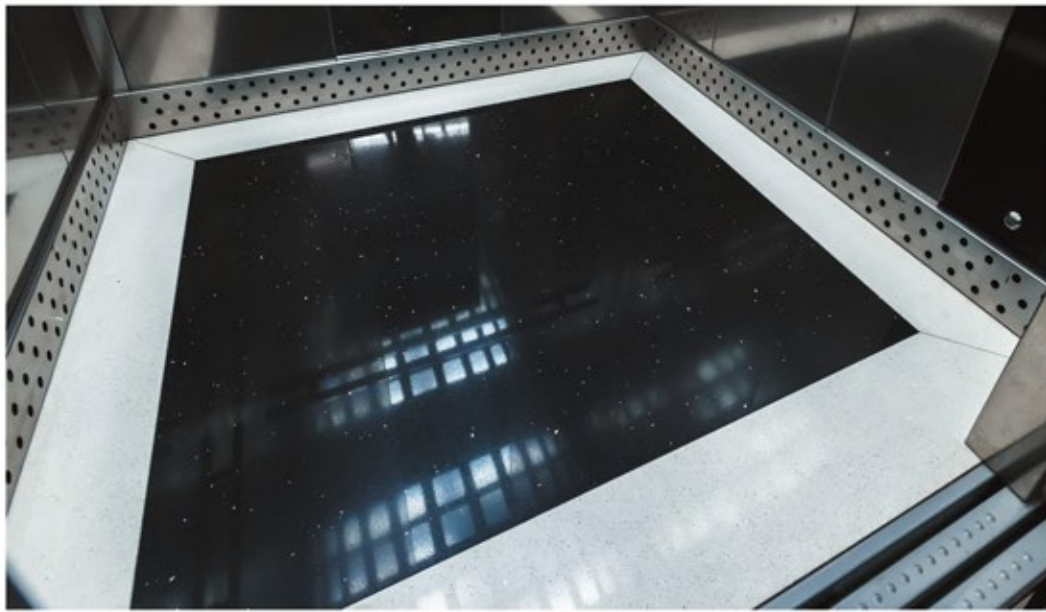
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Lifts design





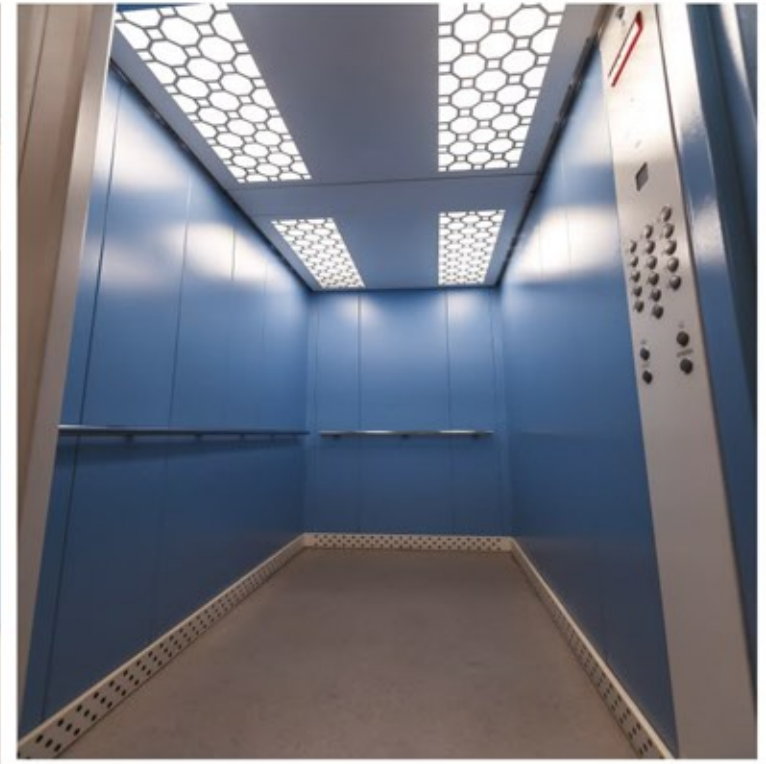
















Passenger elevators for medical and-preventive treatment institutions

JSC «Mogilevliftmash» manufactures passenger elevators for installation within medical-and-preventive treatment institutions. They provide transportation of the patients at wheelbarrow. The elevators are manufactured either with passable or non-passable cabin. The elevators of models PBO606, LBB-10010G, PB1210, PB1610, BVA2010GT are equipped with automatic doors and have the mode of transportation of fire-fighting brigades.

Hospital elevator of model LB-0505 is designed for operation with porter. It is equipped with hinged doors of the shaft and extension-type telescopic cabin doors of manual opening.

New model of the hospital elevator with load capacity of 1600 kg, $v = 1,0$ m/sec, with cabin dimensions 1400x2400x2100 mm and door aperture of 1300 mm (the cabin is available in passable and non-passable variants) is certified and launched into manufacture.

Hospital elevator with load capacity of 2000 kg, $v = 1,0$ m/sec, with cabin dimensions 1500x2700x2100 mm and door aperture of 1300 mm (the cabin is available in passable and non-passable variants) is certified and launched into manufacture as well.

Freight elevators

JSC «Mogilevliftmash» manufactures freight elevators with upper machine room and hydraulic ones (with bottom machine room), with load-capacity of 500, 1000, 2000 and 3200 kg, cabin motion speed 0,5 m/sec as well as freight elevators with upper machine room, with load-capacity of 5000 and 6300 kg and cabin motion speed 0,25 m/sec.

The elevators with manual opening of the doors are manufactured either with internal control system designed for operation with the porter or with external control system designed for operation without the porter. Up to the order these elevators can be equipped either with latticed cabin doors of «bostwig»-type or with solid cabin doors.

Up to the order, compartments and cabin doors of the freight elevators can be manufactured of stainless steel. There are following types of floor coatings: coated steel corrugated sheet, corrugated sheet made of stainless steel or aluminum.

Freight elevator of GV-1025 model with load-capacity 1000 kg and cabin motion speed 0,5 m/sec is equipped with automatic telescopic cabin and shaft doors.

The above mentioned elevators are:

- easy in mounting and maintenance;
- equipped with microprocessor-type control station;
- equipped with cabin of improved strength.

Small-capacity freight elevators

Small-capacity freight elevators with load-capacity of 100 kg, cabin speed motion 0,5 m/sec and with load-capacity of 250 kg, cabin motion speed 0,4 m/sec are used in restaurants, shops, libraries and other buildings. The elevators can be manufactured with passable and non-passable cabins.

Small-capacity freight elevators with cabin stops number not more than 5 and hoist height up to 15 m can be installed within metal-framed shaft (it is included into delivery set).



Car freight elevators

Freight elevator GV-3015 with load-capacity 3200 kg, motion speed 0,5 m/sec and automatic telescopic cabin and shaft doors is designed for cars transportation. The factory also manufactures freight elevators with load-capacity 3200 kg and 5000 kg, with doors of manual opening to transport the cars. They are used within multi-level garages and automobile service centers as well.

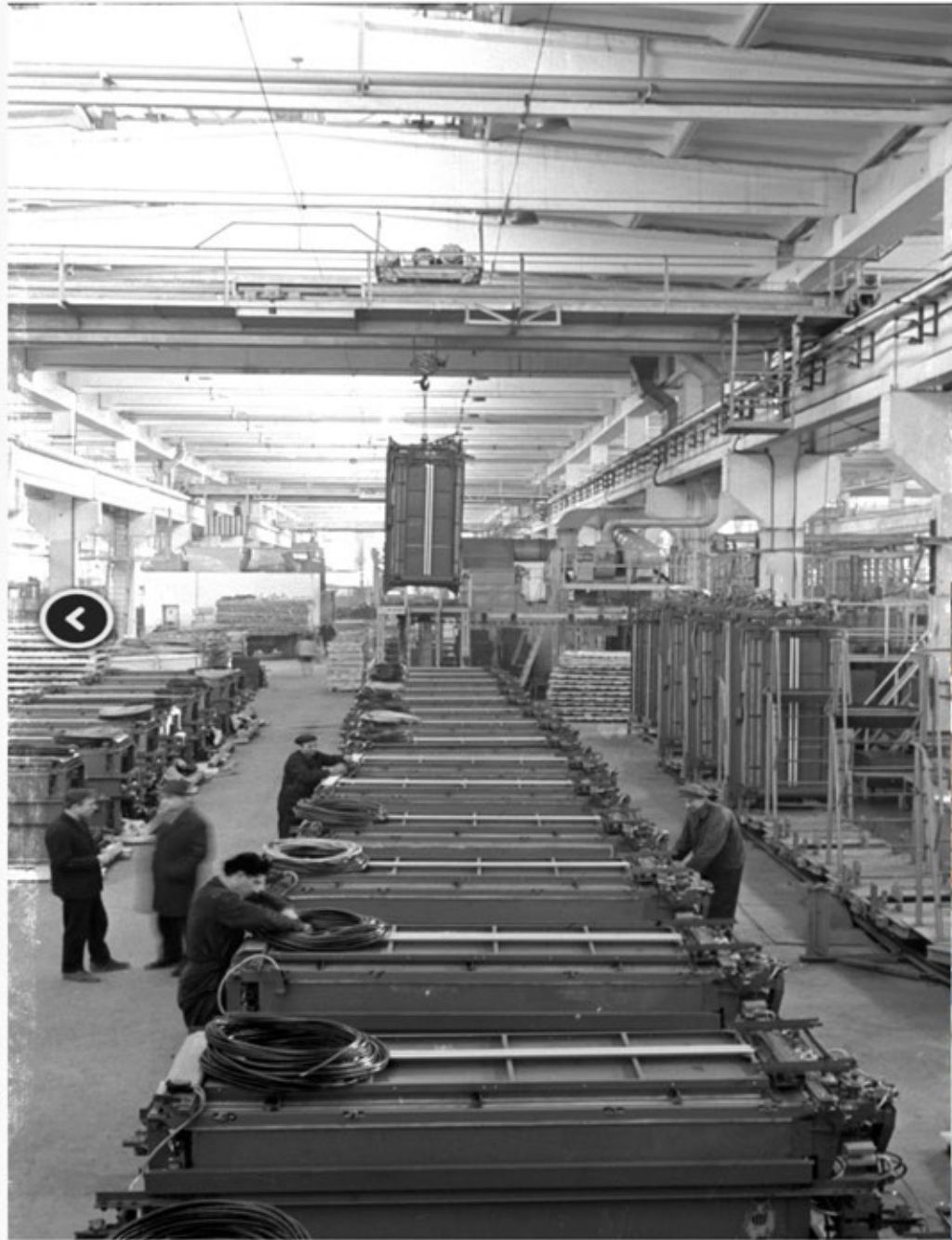


Technical characteristics of mast operating platform PRM-2000



Nominal load-capacity, kg, at maximum length of the platform:	
3.2 m;	2000
6.4 m;	1700
9.6 m;	1400
12.8 m	1100
Maximum hoist height, m	100
Nominal speed of vertical movement, m/sec (m/min)	0,16(9,6)
Nominal speed of horizontal movement, m/sec (m/min)	0,22(13,2)
Drive type	ridged-and-railed
Dimensions of operating platform, m:	
- minimal length	3,2
- maximum length	12,8
- width	1,6
Supply voltage, V	3 x 380
Nominal current, A	10
Maximum incoming power, kW	12
Ground load bearing capacity under the supports, MPa, not less	0,8
Maximum inclination of surface, degrees	4,5
Maximum distance from the platform to the building facade, m , not more	1,09





The assembly of the first elevator cabins, April 1910





Advantage of our products:

1. 50 years of experience;
2. life time of 25 years for each lift;
3. price/quality ratio;
4. lead time of 4-6 weeks.



MOVEL NIGERIA LIMITED

(A Division of JSC-MOGILEVLIFTMASH)

All Movel equipment are eco-friendly with a standard performance, design flexibility and comfort with reduced heat generation, cost and energy usage with no pollution.



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