



BEST QUALITY  
SINCE 1960

# STRONG AND RELIABLE LIFTING EQUIPMENT

**STROS**<sup>®</sup>  
SINCE 1960



**STRONG  
AND RELIABLE  
LIFTING EQUIPMENT**

Construction Hoists / Industrial Elevators  
Ex Proof Hoists / Material Hoists  
Work Platforms / Suspended Platforms



## WORLDWIDE PRESENCE

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# STRONG AND RELIABLE LIFTING **EQUIPMENT**



Over the past 60 years, we have become one of the top manufacturers in the world, especially where operational reliability and durability are preferred.

In our modern, robotic facility, we respect the industry's best traditional practices and use only high-quality materials and components. In this facility, we are also engaged in the production of steel structures, machining, laser cutting of material and other custom engineering production.

Our technical solutions fully satisfy the requirements and needs of our customers. After the

completion of a project, we are ready to thoroughly train the operation and service crews and remain at your full disposal.

Our clients highly appreciate our worldwide sales and service network as well as long-term and fast availability of spare parts.

Choose Stros for your project – you will get a unique source of global experience and a partner you can fully rely on.

- 📄 Directive No. 2006/42/EC
- 📄 ISO 9001
- 📄 EN 1090-2 EXC2 A EXC3
- 📄 EN ISO 3834-2



BEST QUALITY  
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60  
ANNIVERSARY  
STRONG  
AND RELIABLE  
SINCE 1960



The products of STROS a.s. are designed, manufactured and approved in accordance with applicable European legislation.

NOV = Construction hoists for the transport of persons and material with vertically guided cages

NOV = Dedicated machinery (Industrial elevators)

WP = Mast climbing work platforms

ZL = Temporary suspensid platforms



Client zone



Facebook.com/stros.cz



Youtube.com



# CONSTRUCTION HOISTS





### BENEFITS:

Possibility of operating two hoist cars on one mast

Robust and durable

Long service life in harsh conditions

Safe and reliable

### DRIVE UNIT:

The drive unit consist of two or three helical bevel gearboxes equipped with electric brake motors. The drive pinion engages with the rack attached to the mast. The output drive power can be controlled by a frequency inverter to improve ride characteristics. The drive unit is typically located above the hoist car, but it is also possible to place it inside the car.

### SAFETY DEVICE:

The safety device is an essential safety component that stops the car if the rated speed is exceeded in the down direction. It is one of the basic safety elements of each hoist.

### POWER SUPPLY SYSTEM:

In most cases, the hoist is powered by a trailing cable, which is kept tensed by a cable trolley traveling either on a separate rail beside the mast, or on the mast under the car. The cable is kept in place by cable guides, which prevent it from swaying in strong winds. Another way of powering construction hoists is by means of a bus bar.

### MORE INFORMATION:



Load capacity: 1,300 - 3,600 kg

Speed: 0 - 90 m/min

Max. lifting height: 350 m

Construction hoists are an efficient and safe method of transporting materials and people on construction sites. Our products rank among the best in the world market.

**The main reasons for the success and popularity of our products are: Long life and exceptional durability** of our hoists thanks to first-class materials and components, the use of a number of safety features, modern advanced technology, continuous development, high performance and, last but not least, the possibility of adjusting the hoists according to the specific client requirements.

The products of STROS a.s. are designed, manufactured and approved according to valid European legislation.

### MODULAR DESIGN OF THE HOIST CAR

The car structure consists of a center piece and door panels bolted to it. This system makes it possible to easily adjust the length of the car by inserting extensions between the center piece and the door panel.

In addition to the entrance and exit doors, the car can be equipped with a third door in the long side for forklift loading.

# TWIN-MAST CONSTRUCTION HOISTS







Load capacity: up to 6,000 kg

Speed: 0 - 70 m/min

Max. lifting height: 350 m

TWIN-MAST hoists are an efficient and safe method of transporting materials and people on construction sites. Our products rank among the best in the world market.

**The main reasons for the success and popularity of our products are: Long life and exceptional durability** of our hoists thanks to first-class materials and components, the use of a number of safety features, modern advanced technology, continuous development, high performance and, last but not least, the possibility of adjusting the hoists according to the specific client requirements.

The products of STROS a.s. are designed, manufactured and approved according to valid European legislation.

### MODULAR DESIGN OF THE HOIST CARS

The car structure consists of a center piece and door panels bolted to it. This system makes it possible to easily adjust the length of the car by inserting extensions between the center piece and the door panel.

### BENEFITS OF TWIN-MAST CONSTRUCTION HOISTS:

Possibility of using cars of exceptional dimensions and load capacities

Robust and durable

Long service life in harsh conditions

Safe and reliable

### DRIVE UNIT:

The drive unit consist of two or three helical bevel gearboxes equipped with electric brake motors. The drive pinion engages with the rack attached to the mast. The output drive power can be controlled by a frequency inverter to improve ride characteristics. The drive unit is typically located above the hoist car, but it is also possible to place it inside the car. Twin-mast construction hoists are equipped with two drive units, the movement of which is synchronized by an equalizer shaft underneath the car.

### SAFETY DEVICE:

The safety device is an essential safety component that stops the car if the rated speed is exceeded in the down direction. It is one of the basic safety elements of each hoist.

### POWER SUPPLY SYSTEM:

In most cases, the hoist is powered by a trailing cable, which is kept tensed by a cable trolley traveling either on a separate rail beside the mast, or on the mast under the car. The cable is kept in place by cable guides, which prevent it from swaying in strong winds. Another way of powering construction hoists is by means of a bus bar.

### MORE INFORMATION:



# INDUSTRIAL ELEVATORS

Industrial applications / Explosive environments / Dusty and abrasive environments / Corrosive environments





### BENEFITS:

Possibility of achieving large car dimensions and load capacities

Robust and durable

Long service life in harsh conditions

Safe and reliable

Designed and manufactured per the customer's requirements

Special design available for ambient temperatures of down to -40°C

Special design available for hazardous environments with explosive atmosphere (EX)

### DRIVE UNIT:

The drive unit consist of two or three helical bevel gearboxes equipped with electric brake motors. The drive pinion engages with the rack attached to the mast. The output drive power can be controlled by a frequency inverter to improve ride characteristics. The drive unit is typically located above the car, but it is also possible to place it inside the car.

### SAFETY DEVICE:

The safety device is an essential safety component that stops the car if the rated speed is exceeded in the down direction. It is one of the basic safety elements of each hoist.

### POWER SUPPLY SYSTEM:

In most cases, the hoist is powered by a trailing cable, which is kept tensed by a cable trolley traveling either on a separate rail beside the mast, or on the mast under the car. The cable is kept in place by cable guides, which prevent it from swaying in strong winds. Another way of powering construction hoists is by means of a bus bar.

### MORE INFORMATION:



Load capacity: 400 - 3,600 kg

Speed: 0 - 90 m/min

Max. lifting height: 350 m

Single-mast industrial elevators are an efficient and safe method of transporting materials and people in industrial settings. Our products rank among the best in the world market.

The main reasons for the success and popularity of our products are: long life and excellent durability of our hoists thanks to first-class materials and components, the use of a number of safety features, modern advanced technology, continuous development, high performance and, last but not least, the possibility of adjusting the hoists according to the specific client requirements.

### CUSTOM PRODUCED TO MEET SPECIFIC CLIENT REQUIREMENTS:

STROS industrial elevators are designed and manufactured exactly according to customer requirements. Possibility of above-standard dimensions and load capacities.

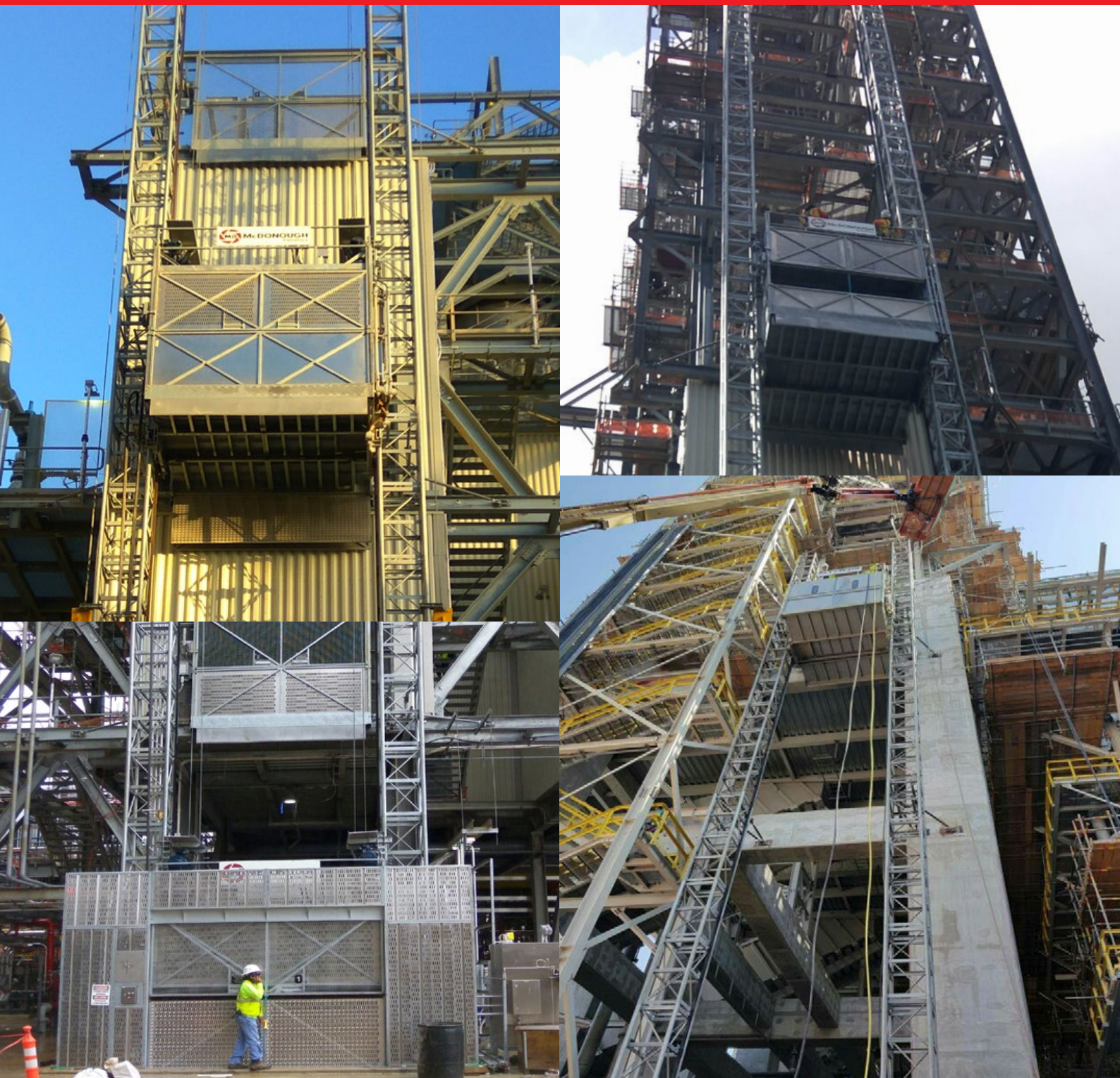
The products of STROS a.s. are designed, manufactured and approved according to valid European legislation.

**TWIN-MAST**

# INDUSTRIAL ELEVATORS

Industrial applications / Explosive environments

Dusty and abrasive environments / Corrosive environments





### BENEFITS OF TWIN-MAST INDUSTRIAL HOISTS:

Possibility of using cars of exceptional dimensions and load capacities

Robust and durable

Long service life in harsh conditions

Safe and reliable

Production exactly according to customer requirements

Possibility of production for environments with temperatures up to -40 °C

Possibility of production for environments with explosive atmosphere (EX)

### DRIVE UNIT:

The drive unit consist of two or three helical bevel gearboxes equipped with electric brake motors. The drive pinion engages with the rack attached to the mast. The output drive power can be controlled by a frequency inverter to improve ride characteristics. The drive unit is typically located above the car, but it is also possible to place it inside the car. Twin-mast construction hoists are equipped with two drive units, the movement of which is synchronized by an equalizer shaft underneath the car.

### SAFETY DEVICE:

The safety device is an essential safety component that stops the car if the rated speed is exceeded in the down direction. It is one of the basic safety elements of each hoist.

### POWER SUPPLY SYSTEM:

In most cases, the hoist is powered by a trailing cable, which is kept tensed by a cable trolley traveling either on a separate rail beside the mast, or on the mast under the car. The cable is kept in place by cable guides, which prevent it from swaying in strong winds. Another way of powering construction hoists is by means of a bus bar.

### MORE INFORMATION:



Load capacity: up to 5,000 kg

Speed: 0 - 70 m/min

Max. lifting height: 350 m

TWIN-MAST Industrial elevators are an efficient and safe method of transporting materials and people in industrial settings. Our products rank among the best in the world market.

The main reasons for the success and popularity of our products are: Long life and exceptional durability of our hoists thanks to first-class materials and components, the use of a number of safety features, modern advanced technology, continuous development, high performance and, last but not least, the possibility of adjusting the hoists according to the specific client requirements.

### CONSTRUCTION ACCORDING TO CUSTOMER REQUIREMENTS

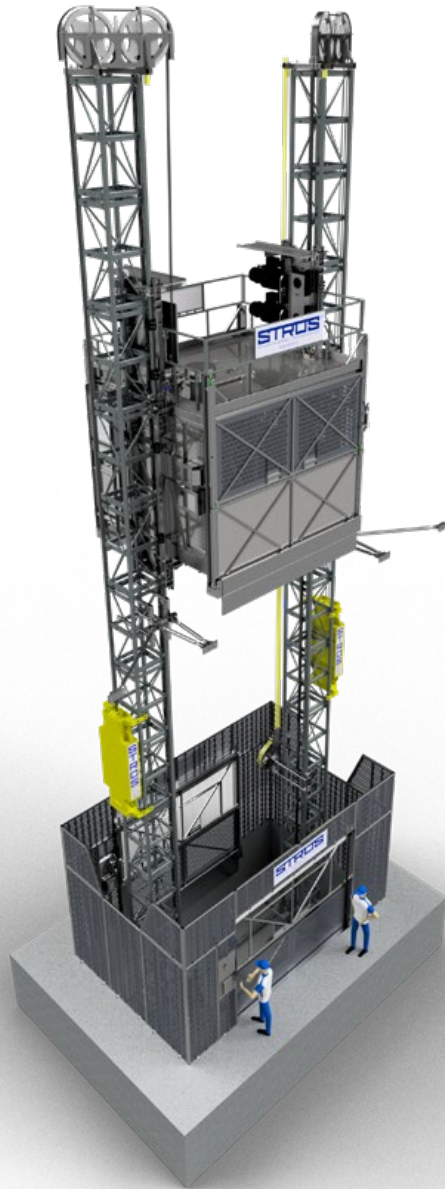
STROS industrial elevators are designed and manufactured exactly according to customer requirements. Possibility of above-standard dimensions and lift capacities.

The products of STROS a.s. are designed, manufactured and approved according to valid European legislation.

# EX-PROOF

Special industrial elevators  
for explosive environments





### BENEFITS:

Possibility of using cars of exceptional dimensions and load capacities

Robust and durable

Long service life in harsh conditions

Production exactly according to customer requirements

Possibility of production for environments with temperatures up to -40 °C

### DRIVE UNIT:

The drive unit consist of two or three helical bevel gearboxes equipped with electric brake motors. The drive pinion engages with the rack attached to the mast. The output drive power can be controlled by a frequency inverter to improve ride characteristics. The drive unit is typically located above the hoist car, but it is also possible to place it inside the car.

### SAFETY DEVICE:

The safety device is an essential safety component that stops the car if the rated speed is exceeded in the down direction. It is one of the basic safety elements of each hoist.

### POWER SUPPLY SYSTEM:

In most cases, the hoist is powered by a trailing cable, which is kept tensed by a cable trolley traveling either on a separate rail beside the mast, or on the mast under the car. The cable is kept in place by cable guides, which prevent it from swaying in strong winds. Another way of powering elevators is by means of a bus bar.

Explosion-proof lifts are designed, manufactured and approved according to applicable environmental directives with explosion hazard NEC 500 (USA) or ATEX.

### MORE INFORMATION:



Load capacity: 500 - 5,000 kg

Speed: 0 - 40 m/min

Max. lifting height: 350 m

The Explosion proof elevators are an efficient and safe method of transporting materials and people in industrial environments with potentially hazardous atmospheres. Our products rank among the best in the world market.

**The main reasons for the success and popularity of our products are:** long life and excellent durability of our elevators thanks to first-class materials and components, the use of a number of safety features, modern advanced technology, continuous development, high performance and, last but not least, the possibility of adjusting the elevators according to the specific client requirements.

### CUSTOM PRODUCED TO MEET SPECIFIC CLIENT REQUIREMENTS:

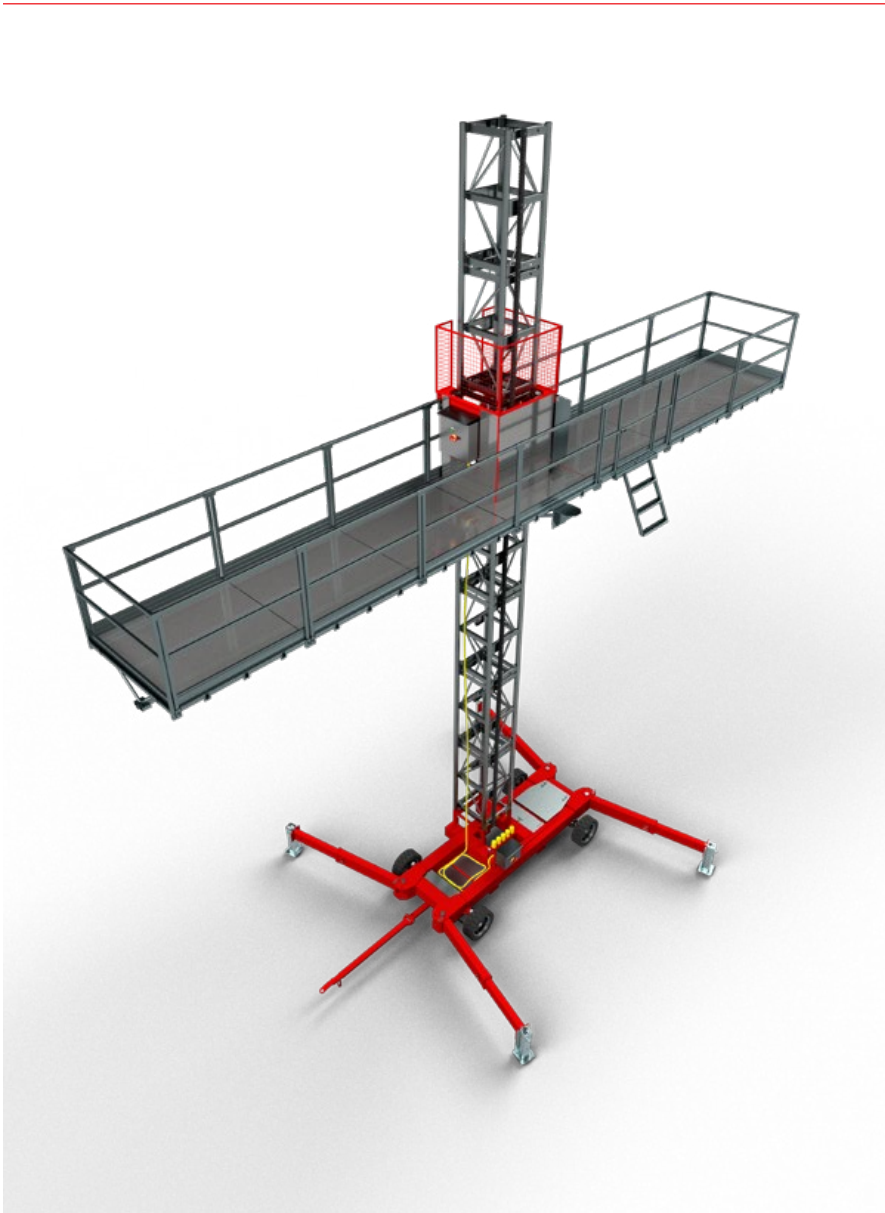
STROS industrial elevators are designed and manufactured exactly according to customer requirements. Possibility of above-standard dimensions and load capacities.

The products of STROS a.s. are designed, manufactured and approved according to valid European legislation.

# WORK PLATFORMS







Load capacity: up to 3,000 kg

Working space (width/length): 1.6 m / 29.3 m

Max. height: 22 m (free standing) / 150 m (tied platform)

WP work platforms are used mainly in the construction industry for assembly, painting, cladding, maintenance and other jobs. They can be equipped with a steerable chassis for moving around a construction site.

The chassis of the 2 and 3-tonne models can also be equipped with a power-driven rear axle. The platforms can be used as free-standing or tied to a building. By connecting two platform units in a dual-mast configuration, a working space of almost 30 meters in length can be achieved. Our products rank among the best in the world market.

The products of STROS a.s. are designed, manufactured and approved according to valid European legislation.

The main reasons for the success and popularity of our products are: long life and excellent durability thanks to first-class materials and components, the use of a number of safety features, modern advanced technologies, continuous development, high performance and, last but not least, the ability to modify platforms according to specific client requirements.

### BENEFITS:

Possibility to use as free-standing as well as tied to a building

By joining work platforms, large work areas can be covered.

Sections extendable toward the building

Safe, durable and reliable

Possibility of driven rear axle

Easy installation and movement around the construction site

### DRIVE UNIT:

The drive unit consist of two helical bevel gearboxes equipped with electric brake motors. The drive pinion engages with the rack attached to the mast.

### SAFETY DEVICE:

The safety device is an essential safety component that stops the platform if the rated speed in the down direction is exceeded. It is one of the basic safety elements.

### POWER SUPPLY SYSTEM:

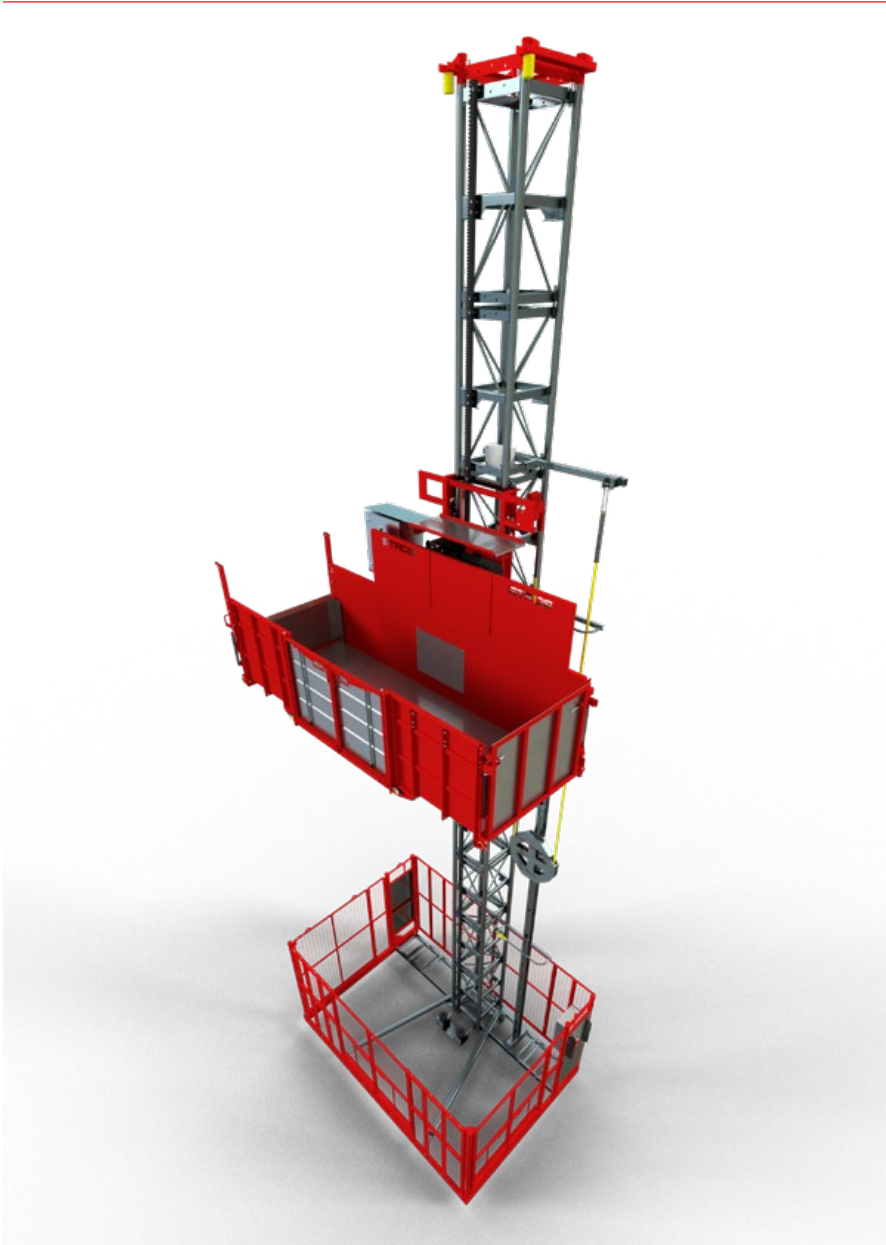
The platform is powered by a trailing cable, which is stowed in the space under the platform.

### MORE INFORMATION:



# MATERIAL HOISTS AND ALULIFTS





### Material hoist / Alulift

Load capacity: 2,000 kg / 200 kg

Speed: up to 40 m/min / up to 25 m/min

Max. lifting height: up to 350m / up to 60m

Material hoists are used for fast, economical and safe vertical transport of materials in the construction industry, as well as other industrial settings.

Material hoists have a transport capacity of up to 2 tons. The Alulift, designed to transport loads of up to 200 kg, is easy to install and can be powered from a standard 230V power outlet.

We produce equipment that saves you time, enables you to reduce overhead costs, increase productivity and improve work safety. The main reasons for the success and popularity of our products are:

long life and excellent durability thanks to first-class materials and components, the use of a number of safety features, modern advanced technologies, continuous development, high performance and, last but not least, the ability to modify according to specific client requirements.

The products of STROS a.s. are designed, manufactured and approved according to valid European legislation.

#### HOIST BENEFITS:

Possibility of achieving great load capacities and transport heights; robust and durable; long service life in harsh conditions.

#### HOIST DRIVE UNIT:

The drive unit consists of two bevel helical gearboxes equipped with special brake electric motors. The output pinion of the drive unit engages with the rack attached to the mast. The lift power units are controlled by a frequency inverter, which improves the driving characteristics.

#### HOIST SAFETY DEVICE:

The safety device is an important and reliable component of work platforms that stops the platform if it exceeds the rated speed when driving down. The safety device is one of the basic safety elements.

#### HOIST POWER SUPPLY:

The material hoist is powered by a trailing cable, which is tightened by a cable trolley on a separate track or a cable trolley located under the car. The tow cable is secured with cable guides that prevent it from deflecting in strong winds.

#### ALULIFT BENEFITS:

Aluminum design, easy and quick installation, modular system, connection to a standard 230 V house network.

#### ALULIFT POWER UNIT:

The power unit consists of a cable winch, a gearbox and a brake electric motor.

#### ALULIFT POWER SUPPLY:

The Alulift power unit is powered from a standard 230 V / 16 A socket.

#### MORE INFORMATION:



# SUSPENDED PLATFORMS





Load capacity: up to 1,140 kg

Maximum length: up to 12 m

Our suspended platforms provide a simple and efficient access solution for maintenance and repairs of buildings. Falling back on our long-term experience, we have developed a highly reliable modular system that makes it possible to quickly adapt the dimensions and shape of the platform to fit your current needs.

The products of STROS a.s. are designed, manufactured and approved according to valid European legislation.

The platforms are designed to consist of components so that it is possible to assemble any length in the range of 2 to 12 meters.

### BENEFITS:

Modular system

Maximum length up to 12 m

Standard roof beam overhang up to 2.1 m

Safe, durable and reliable

Easy installation and easy operation

### DRIVE:

The suspended platform is driven by a pair of power units of the Belgian company Power Climber and is equipped according to valid European legislation.

- Overload protection
- Speed safety device
- Loose rope safety device
- Emergency manual descent
- Tilt control device
- Limit switch

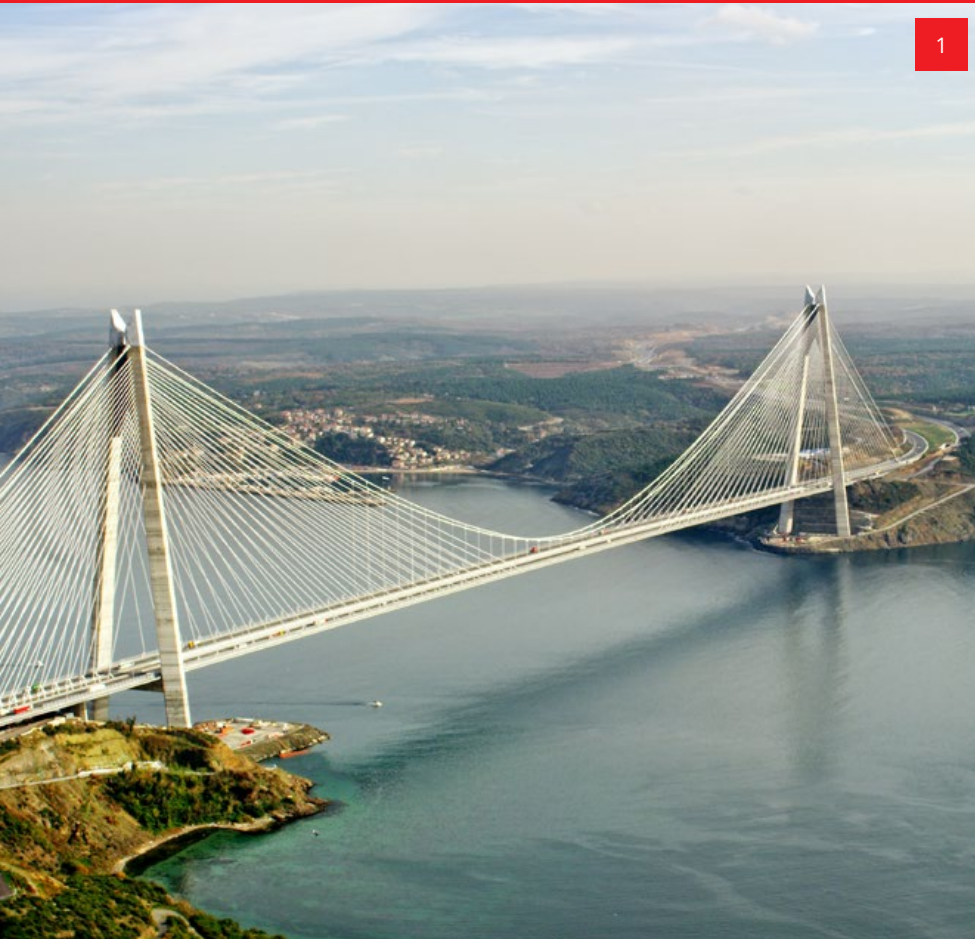
### POWER SUPPLY:

The hoist is powered by a tow cable.

### MORE INFORMATION:



# SELECTED REFERENCES



1/ NOV 2032 UP F7, 1,700kg / 320m, 3rd Bosphorus Bridge, Istanbul, Turkey

2/ NOV 2738 UP3 F5, 162m, Baku, Azerbaijan

3/ HS-450-F4 ULA DELTA, 450kg / 56m, Cape Canaveral, NASA, USA

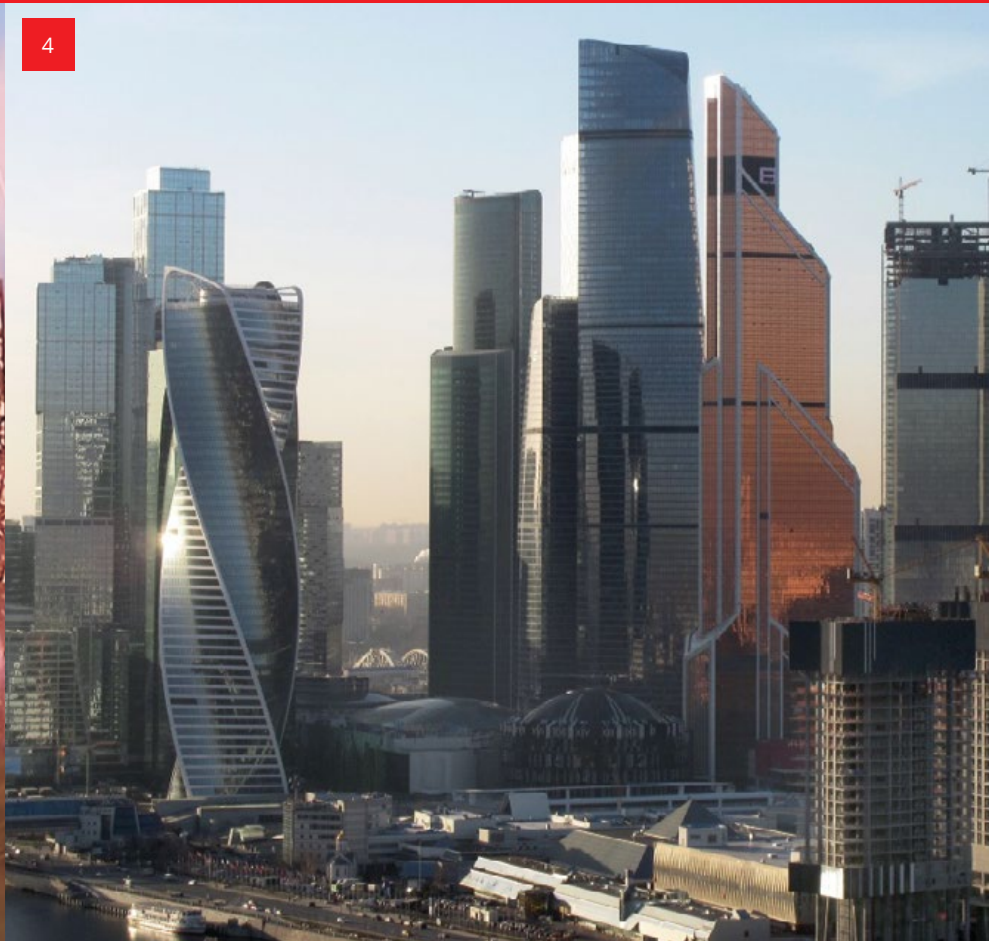
4/ 1x NOV 2032 UP F9-II - 160 m / 3x NOV 3242 UP F9-II - 280 m / 2x NOV 2032 UP F9- / II - 190 m, 4x NOV 3242 UP F9-II - 280 m, Moscow, Russia

5/ NOV 1623 F3, 20 m, Galati Port, Romania

6/ HS-1000-F4, 1000 kg / 50 m, Horse Mesa Dam, Arizona, USA

7/ NOV 3242 UFC9, 3200 kg / 234 m, Ice Condos, Toronto, Canada

8/ NOV 1524 UP F „Mobile“, 1500 kg / 17 m, Canadian Navy, Halifax, Canada





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