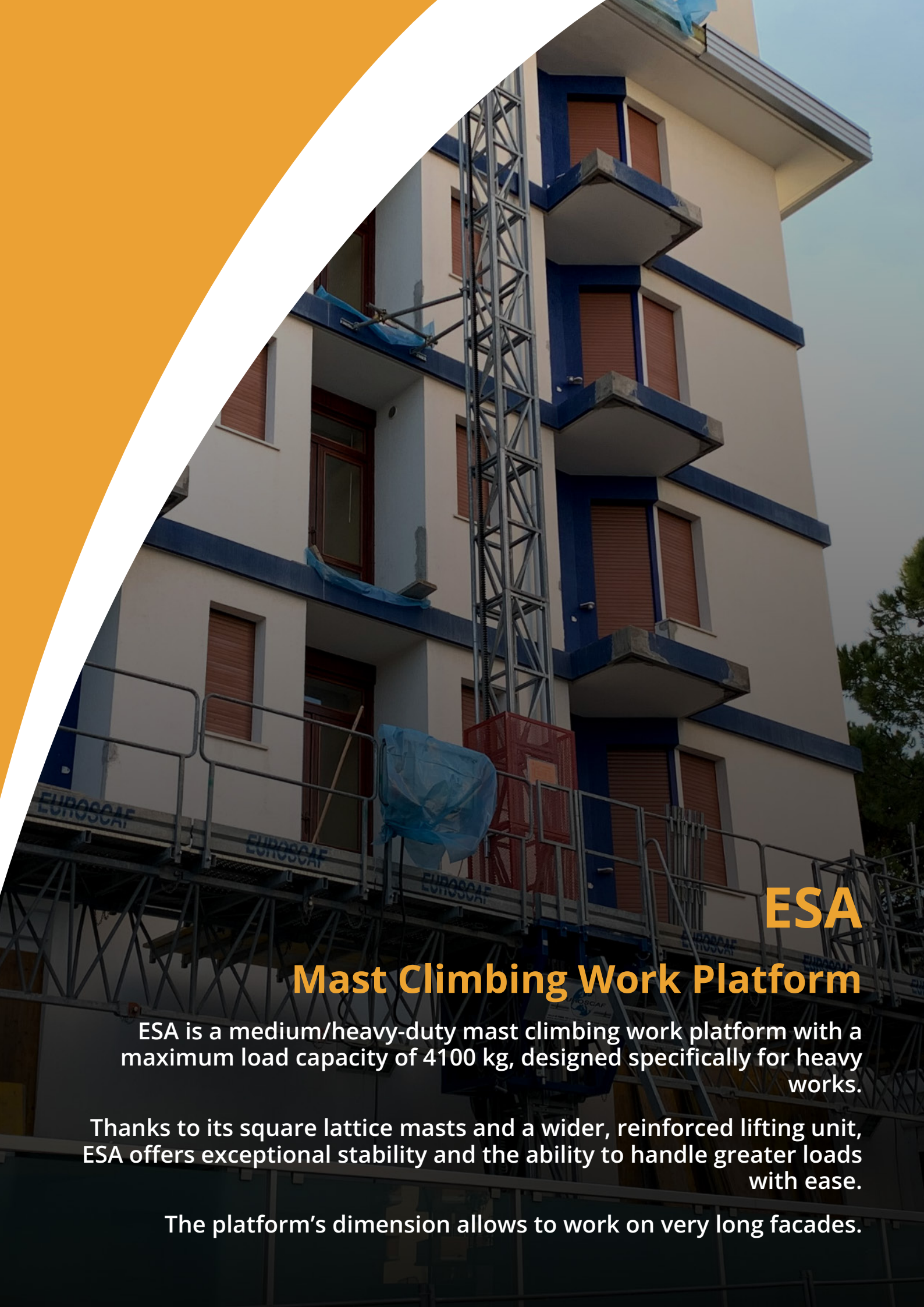


ESA

Mast Climbing Work Platform

ESA is a medium/heavy-duty mast climbing work platform with a maximum load capacity of 4100 kg, designed specifically for heavy works.

Thanks to its square lattice masts and a wider, reinforced lifting unit, ESA offers exceptional stability and the ability to handle greater loads with ease.

The platform’s dimension allows to work on very long facades.

Use

Ideal for facade processing, renovations, and new constructions, **ESA** guarantees maximum **safety**, **efficiency**, and **operator comfort**. Its robust design ensures long-term **durability** with minimal maintenance and reduced operating costs.
Easy to assemble, disassemble, and relocate, ESA optimizes on-site productivity, making it the **go-to solution** for **demanding construction projects**.

Features

ESA is an electrically powered **lifting platform** designed for **safe and efficient** transportation of **people and materials**. It offers a load capacity ranging from **1 to 4,1 tons** and operates at a speed of **10 m/min**.
The **square lattice** mast structure is ideal for bricklaying and **heavy-duty facade work**, providing **stability and efficiency** under substantial loads.

Advantages

- **Low costs** thanks to the versatility of the machine (single/twin mast and different configurations)
- **Safety work** (the machine is completely protected);
- **Max performances** (material and personnel on the platform enable faster work with optimal quality);
- **Faster execution** (time is used to work and not waiting for lifting auxiliary means);
- **Improved ergonomics** (the platform stops precisely where work is needed, eliminating the need for stretching or bending);
- **Interchangeable components**;
- **Reduced spare parts inventory**;
- **Safety devices** (prevent accidents, collisions and fall).

ESA can be configured as either a **Single** or **Twin Mast** platform, depending on the required platform length and loading capacity. The configuration is achieved by assembling **1 m** and **1,5 m** horizontal beam modules.

- The **Single Mast** version ranges from **3,2 m to 15,2 m** in length.
- The **Twin Mast** version ranges from **12,9 m to 35,9 m** in length.

These flexible configurations allow the machine to operate efficiently in **large-scale worksites**, optimizing work processes to meet specific **needs and budgets.**
The **platform**'s width of **1,25 m** provides operators with enough space to work comfortably while minimizing the space required for storage and transportation.

The **rack and pinion** system guides the platform smoothly up and down. The **rack** is **hot-dip galvanized** and made from special hardened steel for enhanced durability and a **longer lifespan**. This design ensures **reliable performance**, even in demanding working conditions.

The **chassis and rollers** guarantee **precise and smooth movement** along the column. A **speed-activated safety device** is integrated to prevent accidental falls, ensuring **maximum safety** during operations.

ESA comes with a base frame equipped with **wheels**, allowing the unit to be easily moved across flat surfaces. For **confined spaces**, the machine can be installed with a **minimal base frame**. When additional stability is required, **stabilizer arms** can be added, providing enhanced support and safety on uneven terrain.

Safety devices:

- Self-braking motors;
- Overspeed emergency safety device;
- Emergency manual descent;
- Upper / lower mechanical stop device;
- Phase control relay;
- Upper / lower limit switch;
- Proximity device to detect the presence of vertical elements;
- Door limit-switch;
- Safety beep of movement.

Mast

Use

The **ESA** mast section has a height of **1,49 meters** and a weight of **80 kg**. It is fully **hot-dip galvanized**, ensuring excellent **resistance** to corrosion and durability even in demanding environments.

Its **square shape** provides enhanced **structural stability**, making it highly reliable during operation. Additionally, this design allows for **easier handling** and maneuverability by two people, **facilitating** both **transportation** and **assembly**.

The **integrated rack** is also **hot-dip galvanized** and made from **specially hardened steel**, offering superior wear resistance and an **extended service life**, even under intensive use.

ESA can be equipped with a **metal or wooden floor**, according to the customer's needs and preferences.

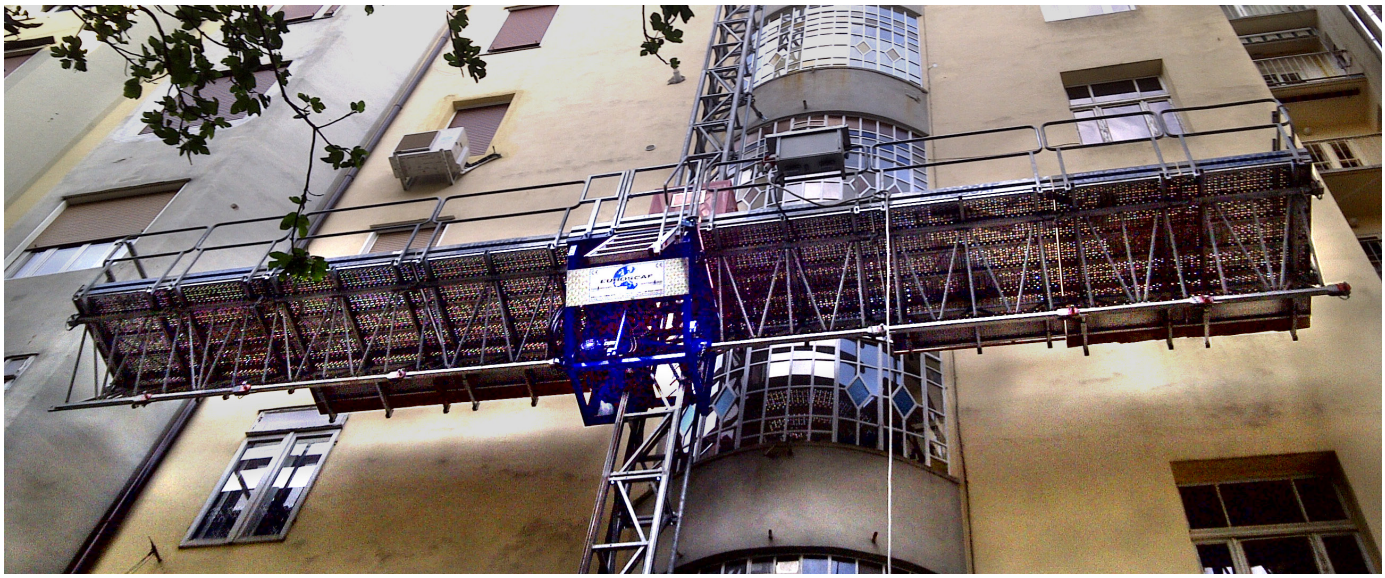
The **overspeed safety device** is installed on the machine and stops it if the lifting unit starts descending too quickly due to issues with the motor brakes. It is an additional safety feature, as each unit is already equipped with two self-braking gear motors, each capable of supporting the platform's weight.

The **Automatic Horizontal Level** device is included when the machine is configured as a **twin mast**. It keeps the platform level when it starts to tilt due to uneven loads placed on the platform.

An optional **larger base chassis** allows **ESA** to be **freestanding** up to **12 m**.

Technical characteristics - Single Mast		
Max length	m	15,2
Min length	m	3,2
Max loading capacity	Kg	2250
Min loading capacity	Kg	1000
Max weight at the base	Kg	2500
Min weight at the base	Kg	1300
Max width	m	1,25 + 2
Lifting speed	m/min	10
Max heigh anchored	m	+150
Distance between anchorages	m	9
Min height	m	1,6
Motor's power	kW	2 x 3
Vertical element height	m	1,49
Rack module	Module	6
Vertical element weight	Kg	80
Voltage three-phase	V	400V 50Hz*

*For different voltages/frequencies, contact EUROSCAF S.r.l.



Technical characteristics - Twin Mast		
Max length	m	35,9
Min length	m	12,9
Max loading capacity	Kg	4100
Min loading capacity	Kg	1850
Max weight at the base	Kg	5500
Min weight at the base	Kg	3300
Max width	m	1,25 + 2
Lifting speed	m/min	10
Max heigh anchored	m	+150
Distance between anchorages	m	9
Min height	m	1,6
Motor's power	kW	4 x 3
Vertical element height	m	1,49
Rack module	Module	6
Vertical element weight	Kg	80
Voltage three-phase	V	400V 50Hz*

*For different voltages/frequencies, contact EUROSCAF S.r.l.

EUROSCAF

Since 1991 EUROSCAF is one of the first world manufacturers of lifting means; mast climbing work platforms and hoists.

The head office and premises are in Italy, close to Venice.

Row materials and components are mainly Italian or European.

Euroscaf's suppliers are elected according to their quality standards and proven efficiency of their products.

Euroscaf's aim is to have satisfied customers, for this reason we take care of our customers' needs and we pay attention to their value supplying machines that are flexibles, high quality and reliable.

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