

/// MINI CRANES

EN

SERIES



ELMA BY **PLATFORM**
BASKET

elma-italy.com

MADE IN ITALY



From engineering to innovation

Being part of a Group of qualified companies means having a shared vision and working together to achieve common goals, reduce costs, and improve the quality of products and services.



Leader in the production of aerial platforms since 2005 in the industrial and railway sectors.



From engineering to innovation, specialized in the design of new products and the development of machines for material handling.



The power of operational control over every single action. The design and construction synergy resides in this company, specialized in the creation of electrical systems for the mobile sector.



Every metal sheet is a promise of quality; a company born with the purpose of serving the entire market of consumers and users of sheet metal.



Founded in **1974**, the company is a leader in reducing production times and costs within the Group, thanks to the strength of cutting-edge technologies and excellent organization.



3

R&D Departments

5

Production
Facilities

200

Employees and
Collaborators

800

Active Customers

6000

Operating Machines
Worldwide

Tracked mini-cranes

ELMA tracked mini cranes offer high performance in handling and transport while maintaining the compactness and weight needed to move through narrow spaces and uneven surfaces. Featuring design logic similar to Platform Basket platforms, they can function both as stabilized cranes and as pick-and-carry cranes.



Easy to transport:

They are all transportable with a light trailer (3.5T).

Applications:

Ideal for maintenance and construction activities, both in indoor and outdoor environments, as well as in sectors such as material handling, construction, and support work on job sites.

Lightweight structure:

The reduced operational weight allows for low ground pressure, making them particularly suitable for delicate surfaces and in the presence of floors or balconies.



Motorization:

The entire range is available with petrol internal combustion engines, suitable for outdoor use, or in bi-energy version, with the addition of a single-phase 220Vac electric motor installed directly at the factory.

Alternatively, and in compliance with stricter environmental regulations, the range can be equipped with lithium-ion batteries and a charging system powered by the mains. This configuration allows for operation without noise and emissions, making the equipment highly sustainable and environmentally friendly.

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Simple and functional

For daily use applications, it is often preferable to have machines that are accessible to everyone, highly compact machines that can be used anywhere. Easy to operate even for a novice, thanks to intuitive instrumentation that suits any level of use.

PCR10 **PCR12**



1.1T



1.1T

PCR10 are tracked machines without stabilizers, with a load capacity on the loading platform of **1.1T**.

PCR12 are tracked machines without stabilizers, with a load capacity on the loading platform of **1.1T** and a reach of **1.2m**, with the possibility of equipping a winch or tools at the boom tip, like the glass manipulation system.

MCR30 **MCR40**



3Tm



4Tm

MCR30 are tracked machines with stabilizers, with variable positioning and a lifting performance of **3Tm**. It is possible to equip a winch or tools at the boom tip, like the glass manipulation system. They can also be used without stabilizers, as pick-and-carry machines.

MCR40 are tracked machines with stabilizers, with variable positioning and a lifting performance of **4Tm**. It is possible to equip a winch or tools at the boom tip, like the glass manipulation system. They can also be used without stabilizers, as pick-and-carry machines.



/// MCX90



9Tm

The **MCX90** are tracked machines with stabilizers, featuring variable positioning and a lifting performance of **9Tm**.

It is possible to equip a winch or tools at the boom tip, such as the glass manipulation system.

They can also be used without stabilizers, as pick-and-carry machines.



/// MCX110

11Tm

The **MCX110** are tracked machines with stabilizers, featuring variable positioning and a lifting performance of **11Tm**.

It is possible to equip a winch or tools at the boom tip, such as the glass manipulation system.

They can also be used without stabilizers, as pick-and-carry machines.

MCR30 / MINI CRANES SERIES

Entry-level model for mini cranes, designed for ease of use and operational simplicity.

- Lifting capacity of **3Tm** up to **9m** height and **7m** outreach.
- **Pick and carry mode:** Track movement with loads up to **250 kg**.
- Variable stabilizer positioning to adapt to difficult conditions.
- **Compact** size to pass through standard doors.
- Motorization available in two versions:
 - **Petrol + 230 Vac electric pump** (optional)
 - **Full-electric** with lithium-ion batteries **48Vdc 110Ah**.

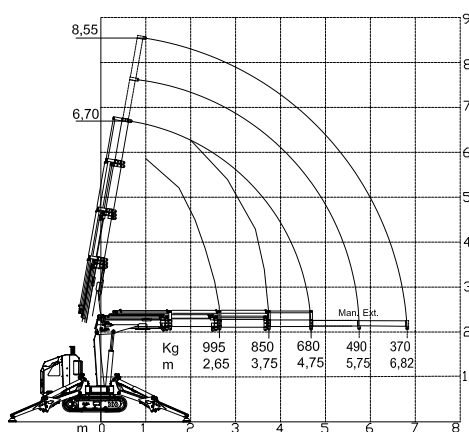
OPTIONAL EQUIPMENT:

- Optional equipment:
- Retractable tracks
- White tracks
- 230Vac electric pump
- Single rope winch 800kg
- Work lights
- Jib system
- Mechanical extension 2 m (1+1)

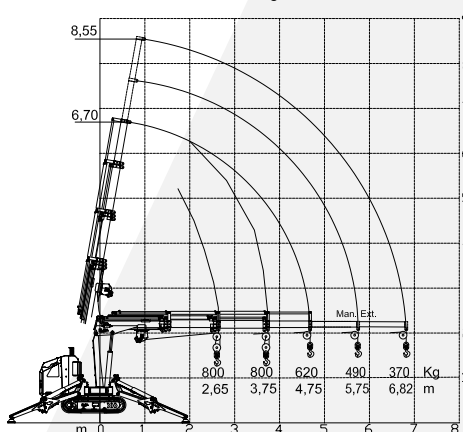


3Tm

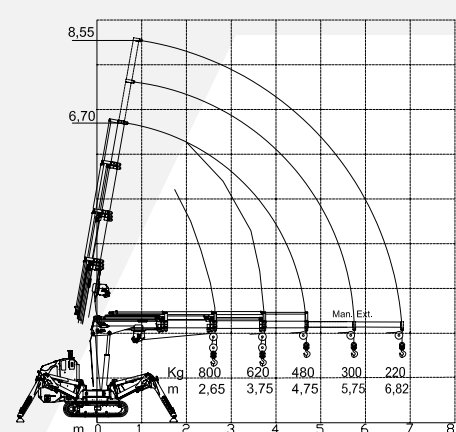
MCR30 load chart



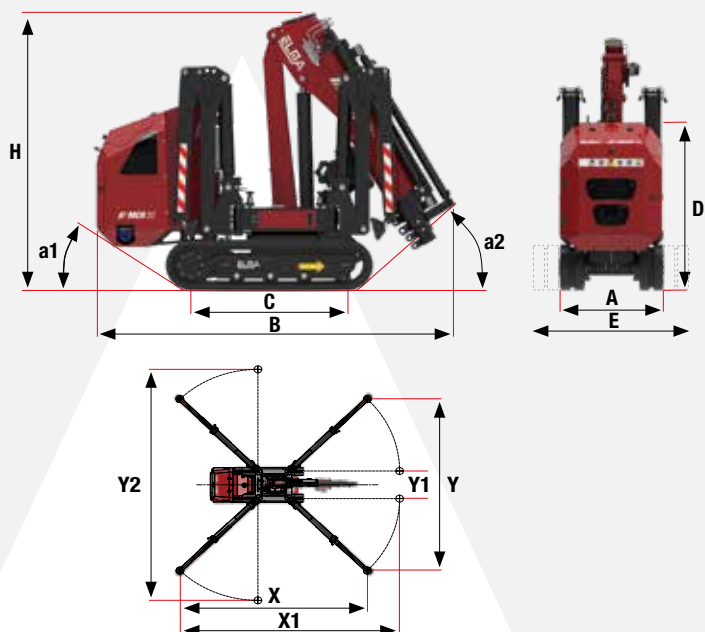
MCR30 + winch 800kg load chart



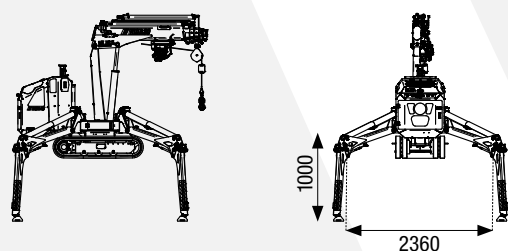
MCR30 narrow stabilization load chart



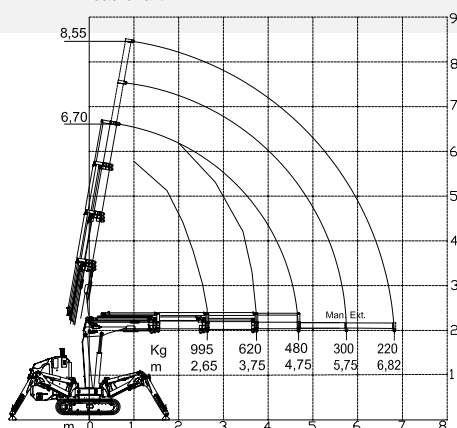
Technical data



Self-loading dimensions



MCR30 narrow stabilization + winch 800kg load chart



MCR30 PLUS / MINI CRANES SERIES

Advanced version with superior level sensor technology, ideal for operators who demand the highest safety standards.

- Lifting capacity of **3Tm** up to **9m** height and **7m** outreach.
- **Pick and carry mode:** Track movement with loads up to **250 kg**.
- Dual stabilizer positioning to adapt to challenging conditions.
- **Compact** size to fit through standard doors.
- Motorization available in two versions:
 - **Petrol + 230 Vac electric pump** (optional)
 - **Full-electric** with lithium-ion batteries **48Vdc 110Ah**.

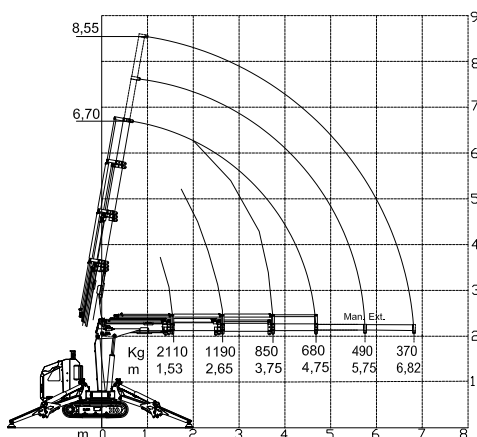


OPTIONAL EQUIPMENT:

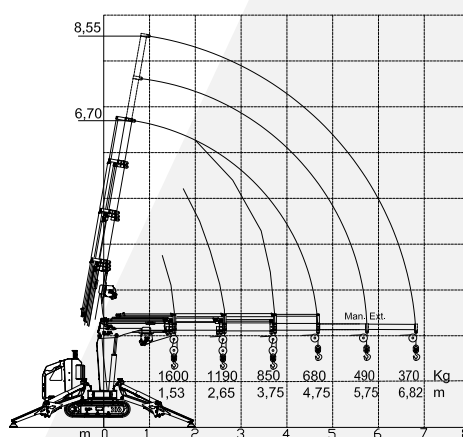
- Retractable tracks
- White tracks
- 230Vac electric pump
- Double rope winch 800 kg
- Work lights
- Jib system
- Mechanical extension 2 m (1+1)



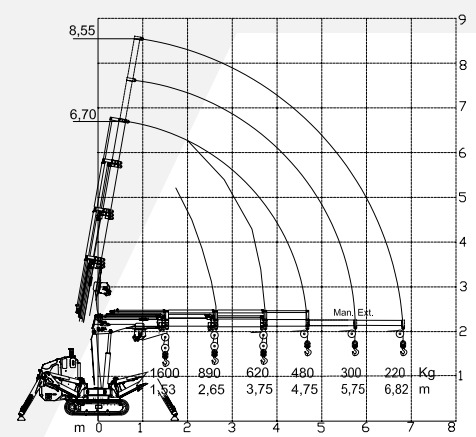
MCR30 Plus load chart



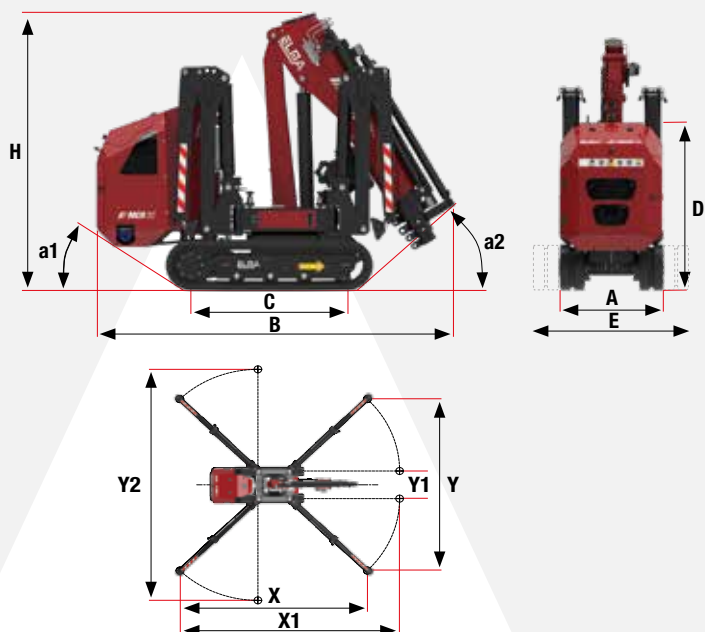
MCR30 Plus + Winch 800kg load chart



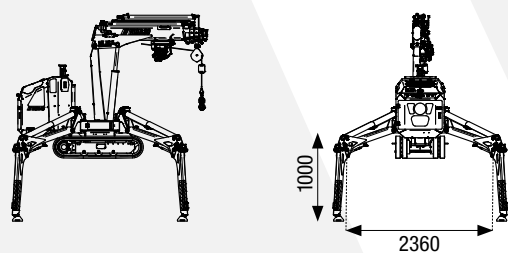
MCR30 Plus narrow stabilization load chart



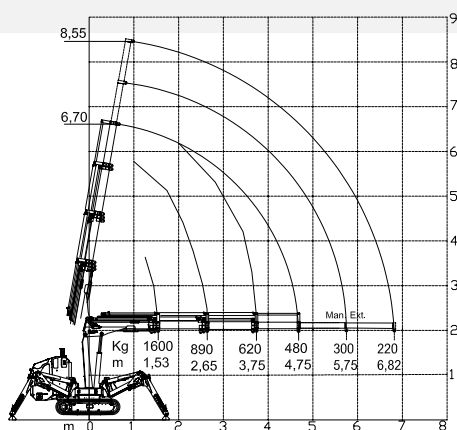
Technical data



Self-loading dimensions



MCR30 Plus narrow stabilization + Winch
800kg load chart



TECHNICAL DATA		STD	E
A	m	0,79	
B	m	2,22	
C	m	1,09	
D	m	1,25	
E	m	0,98	
H	m	1,9	
a1	°	33°	
a2	°	40°	
X	m	max 3,88	min 3,4
Y	m	max 3,88	min 3,4
X1	m	max 4,55	min 4,0
Y1	m	0,62	
Y2	m	max 5,20	min 4,5
Max moment crane	Tm	3,2	
Max horizontal outreach	m	4,75	
Maximum load capacity	kg	2110	
Crane boom working angle	°	± 80°	
Rotation angle of the crane arm	°	340°	
Rotation speed	kNm	3,2	
Travel speed	km/h	2,1	
Max slope capability	°	25°	
Maximum working pressure	bar	190	
Max pressure at the distributor	l/min	8	
Hydraulic oil tank capacity	l	22	
Single line winch (optional)	kg rope	800 Ø7mm - 46m	
WEIGHTS		STD	E
Standard machine weight	kg	1520	1550
Winch kit weight	kg	70	70
Ground pressure on tracks	kg/cm²	0,25	0,26
Max load on stabilizer foot	kg	1160	
ENGINE OPTIONS		STD	E
Petrol engine	8,7kW/11,7HP @3600 rpm	•	-
Electric motor 230Vac (optional)	2,2kW/3HP 230Vac/50Hz	•	-
Electric motor traction	3,5kW/5HP 48Vdc	-	•
Crane electric motor	2,5kW/3,5HP 48Vdc	-	•
Battery characteristics	51,2Vdc 105Ah Lithium Ion	-	•

Narrow stab. (detail)

