

/// 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.

MCX110 / **MINI CRANES SERIES**

Evolution of the MCX90 model, with a larger counterweight but restrained weight (3T).

Medium-high performance machine, ideal for transport on a 3.5T trailer.

- Lifting capacity up to **11Tm**.
- Maximum outreach of the crane: **10m**.
- Crane movement up to **4T**.
- Articulated stabilizers with telescopic extensions.
- **"Pick and carry" mode**: translation with load up to **450 kg**.
- **Compact** size to pass through domestic doors.
- Available motorization:
 - **Diesel Kubota + electric pump 230 Vac** (option)
 - **Battery-powered 48Vdc 240Ah** (option).
- Integrated diagnostic and control display.
- Compatible with accessories such as glass handling systems.



OPTIONAL EQUIPMENT:

- Extendable tracks
- White rubber tracks
- 230Vac electric pump
- Jib with 2 hydraulic extensions
- 1.5T direct pull winch
- Double pull winch kit
- Quadruple pull winch kit
- Glass-handling system
- 48Vdc 240Ah Lithium Ion battery (E Version)

Boom without winch (detail)

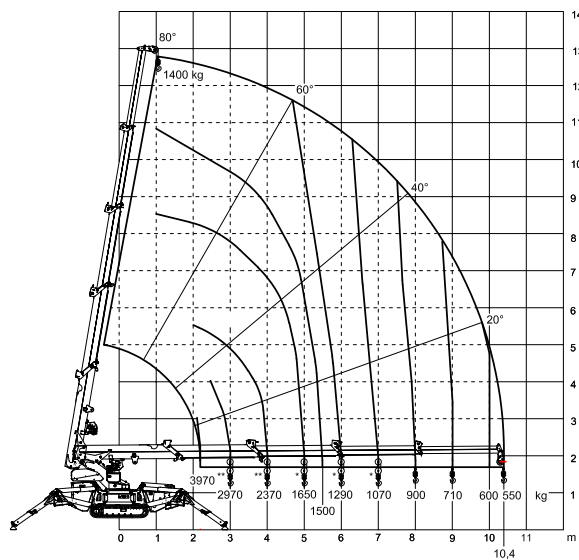


Boom with winch (detail)

11Tm

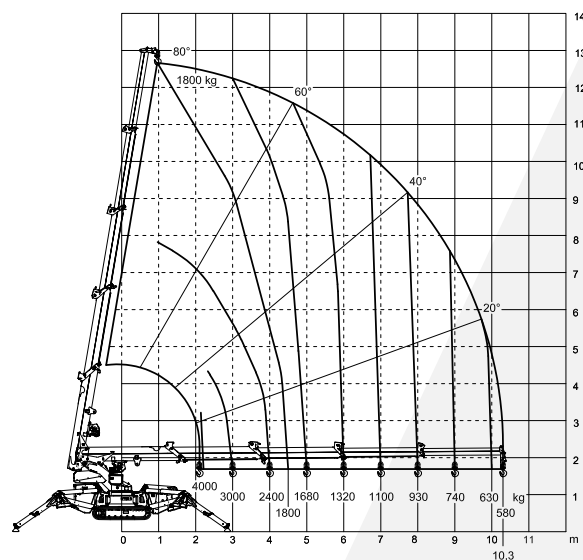


MCX90 + winch load chart

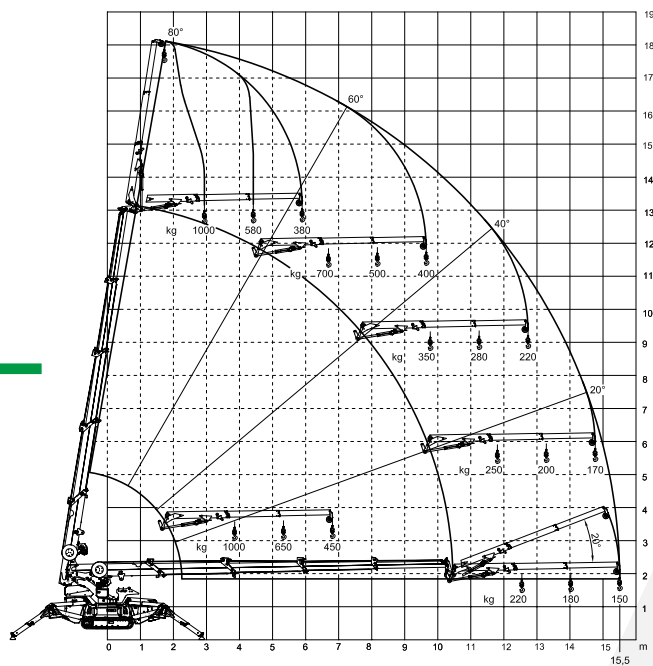


* Double pull winch
** Quadruple pull winch

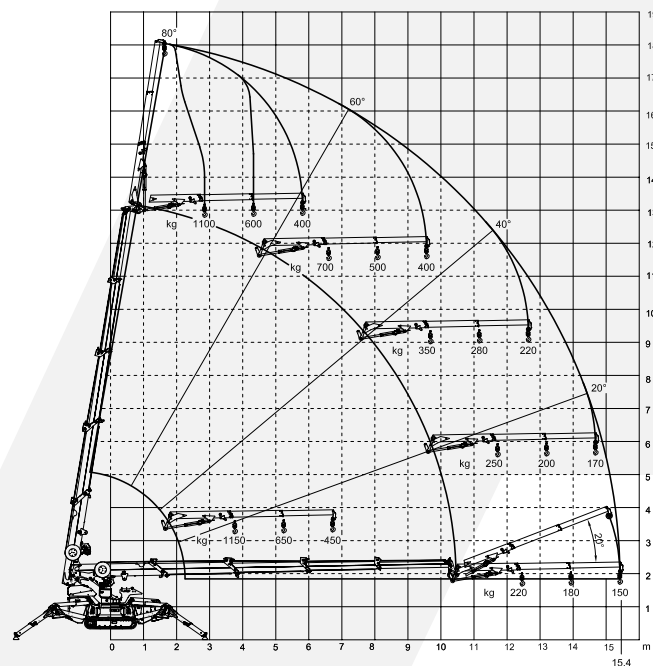
MCX90 + hook load chart



MCX90 + jib + hook load chart



MCX90 + jib + winch load chart



Technical data



TECHNICAL DATA		STD	E
A	m	0,79	
B	m	3,45	
B JIB	m	3,65	
C	m	1,24	
D	m	1,00	
D JIB	m	1,30	
E	m	0,51	
F	m	0,14	
G	m	0,98	
H	m	1,90	
H JIB	m	1,96	
a1	°	25°	
a2	°	25°	
X	m	max 5,7	min 4,4
Y	m	max 5,6	min 4,3
X1	m	max 7,8	min 5,9
Y1	m	max 7,6	min 5,7
Max moment crane	Tm	11,0	
Max horizontal outreach	m	10,3	
Maximum load capacity	kg	4000	
Crane boom working angle	°	- 5 + 80°	
Rotation angle of the crane arm	°	endless	
Rotation speed	kNm	15,6	
Max travel speed	km/h	2,1	
Max slope capability	°	25°	
Maximum working pressure	bar	260	
Max pressure at the distributor	l/min	40	
Hydraulic oil tank capacity	l	60	
Single line winch (optional)	kg rope	1500 (first layer) Ø 8 - 65 m	

WEIGHTS		STD	E
Standard machine weight	kg	2980	
Two-extension jib weight	kg	250	
1.5T winch kit weight	kg	70	
Double pull winch weight	kg	30	
Quadruple pull winch weight	kg	50	
Max ground pressure of the tracks	kg/cm ²	0,66	
Max load on stabilizer foot	kg	3100	
ALIMENTAZIONE		STD	E
Kubota D902 diesel engine	16,1kW/22HP @3600 rpm	•	-
Electric motor 230Vac (optional)	2,2kW/3HP 230Vac/50Hz	•	-
Electric motor	8kW/11HP 48Vdc	-	•
Battery characteristics	48Vdc 240Ah Lithium Ion	-	•

