cps-group.com

*Powerful Synergies*




# COPMA
## 78

ESSENTIAL
MODEL

# COPMA 78

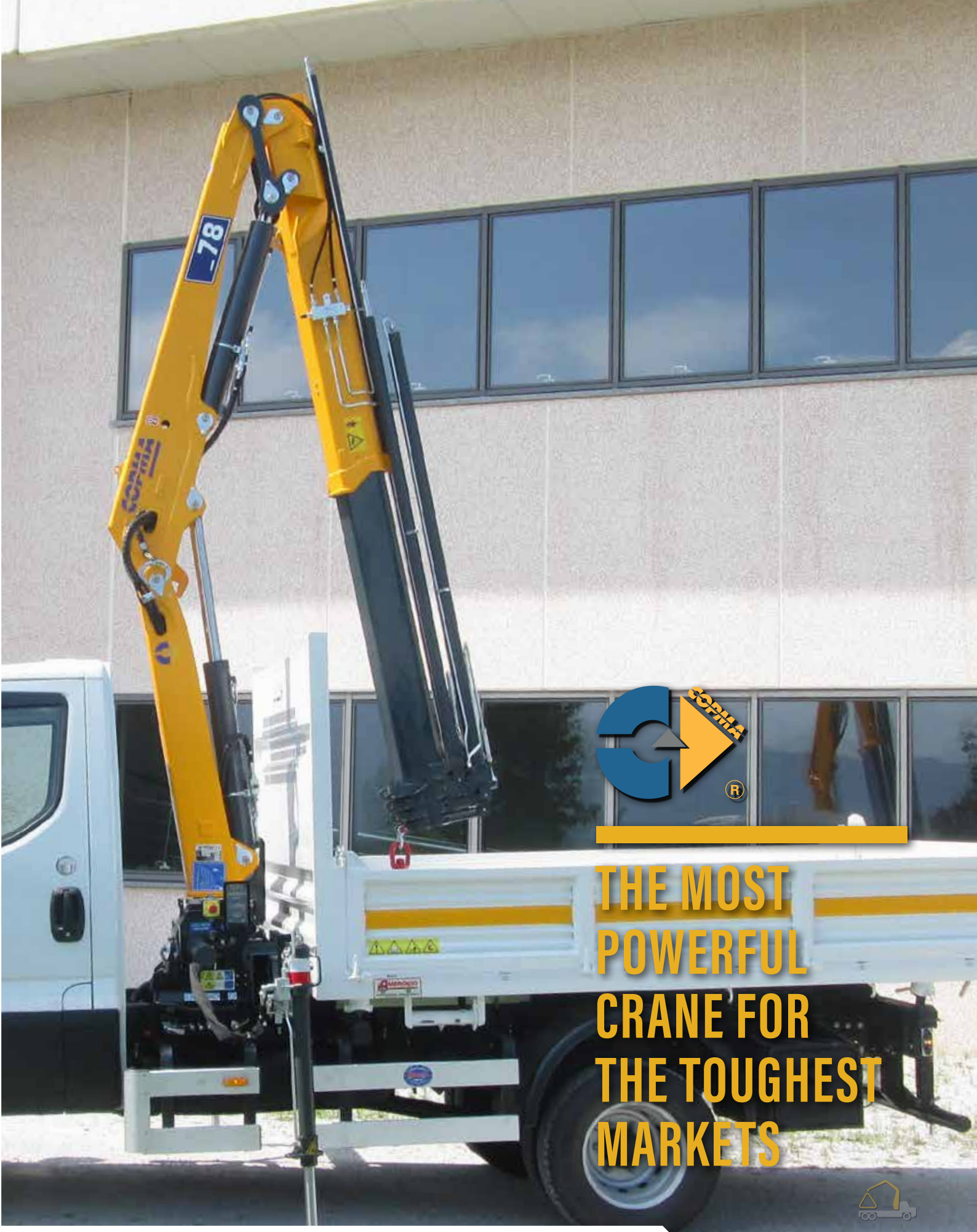
## Performance & Power

# 78 IS INNOVATIVE ENGINEERING FOR TOP PRECISION, EFFICIENCY, SPEED AND PERFORMANCE. AN ESSENTIAL MASTERPIECE OF LIFTING TECHNOLOGY.

- **ESSENTIAL model, load category - 7 Ton/Mt.**
- **Essential in design, powerful in performance**
- **Robust arm system**
- **Simple and reliable**
- **Excellent operational safety**




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# THE MOST POWERFUL CRANE FOR THE TOUGHEST MARKETS


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# COPMA 78

## More Safety & Security

# DESIGNED WITH THE HIGHEST HYDRAULIC SYSTEMS AND THE TOUGHEST STRUCTURAL STEEL TO PERFORM THE MAXIMUM LIFTING CAPACITY.

- **Optimized and reliable hydraulic technology**
- **Column with high mechanical characteristics**
- **High Degree of User Friendliness**
- **Efficiency and Reliability thanks to essential design**
- **Excellent weight/performance ratio**


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# DESIGNED FOR FLEXIBLE SERVICES


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# COPMA 78
## Technical Features

# CUTTING EDGE FEATURES FOR MAXIMUM LIFTING POWER, STABILITY AND OPERATIONAL SAFETY IN EVERY WORKING CONDITION.

### Standard features

- **easy use**




- **control**

* 

* 

* 


- **structure**






### optional features

- **control**





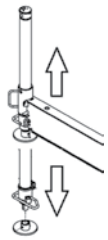



* CE version


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## Manual Lifting Stabilizers 1.0

Manual lifting of the crane legs.
The manual lifting of the legs helps the operator adjust its extension manually without additional assistance from electronics or hydraulic controls.



## Transport Alert Device

Sensors on the basement control the correct closing of the beams and a column switch sensor indicates if the crane is in a folded position, no more than 4 Mt in height. The operator is warned with light and sound signals in the truck cabin.




## Crane Monitoring System 1.0

Crane stability control system TES1-TES2, with safety control and overload control for medium-small cranes. Controls the crane in 4 work areas, and each zone can have custom lifting settings depending on the vehicle stability.

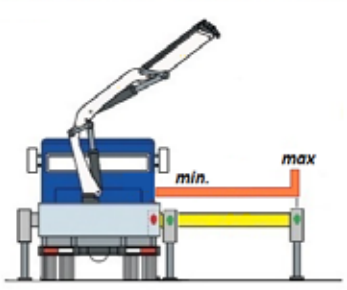



## COPMA ® Remote Connectivity 4.0

COPMA® Remote Connectivity 4.0 to the crane.
Two-way communication by GPRS for real-time diagnosis and remote real-time parameter setting and/or adjustment.

## Truck Electronic Stability 1.0

Active stability control for performance optimization according to the type of stabilization (1) to guarantee maximum safety in all working conditions. Mandatory in the CE market, it helps a better vehicle-crane configuration.




## Radio Remote Control 2.0

Radio remote control with the electro-hydraulic actuator connected directly to the standard control valve. The remote control allows operating the crane while continually monitoring the areas of operation.




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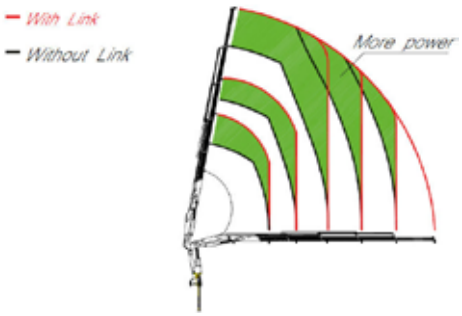
## Rotation system with Rack and Pinion

The rotation system with rack and pinion is the best optimal solution for the most performative lifting capacity, it reduce the weights and crane dimension for the most compact configuration.



## Constant Control Link System

The cranes equipped with connecting rods on the articulations, with a constant lifting moment over the entire working arc, allow to 100% optimize the crane's capacity in positions close to the maximum vertical.




## Radio Remote Control 3.0

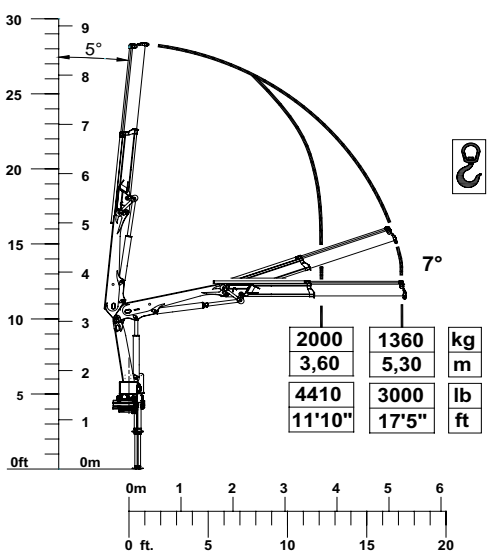
Radio control with directly flanged actuation electronics with proportional distribution.
The remote control allows operating the crane while constantly monitoring the areas of operation.



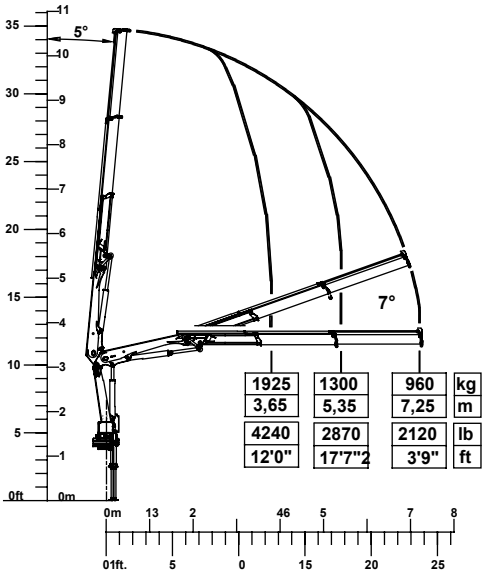

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# Load Charts

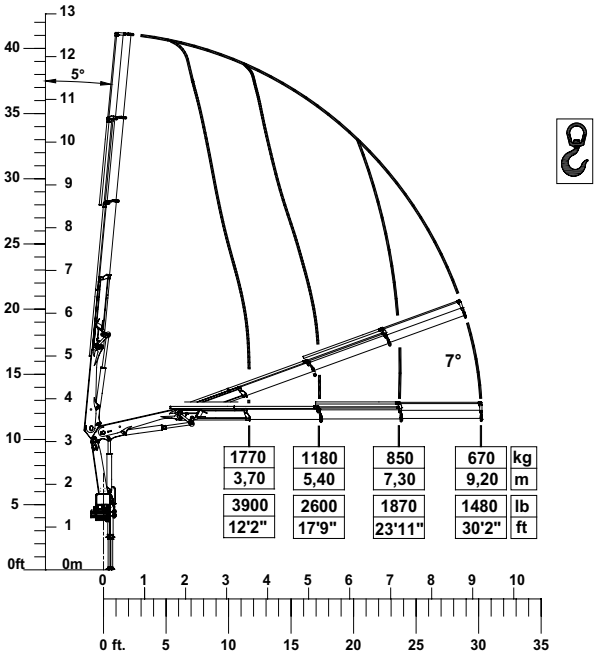
## 1 extensions



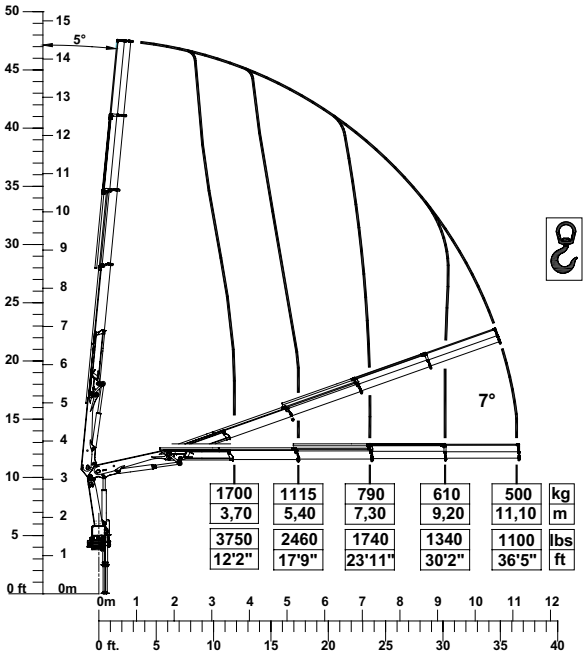

## 2 extensions




## 3 extensions



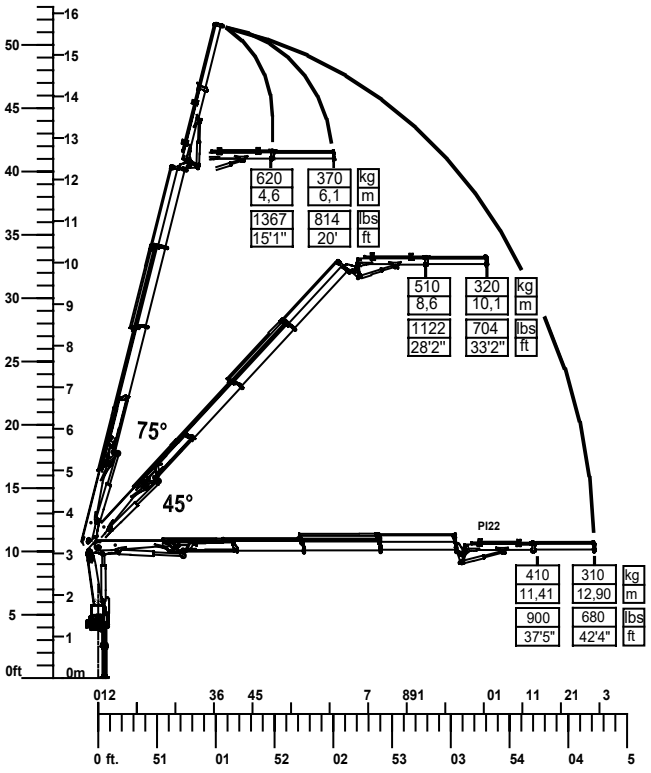

## 4 extensions



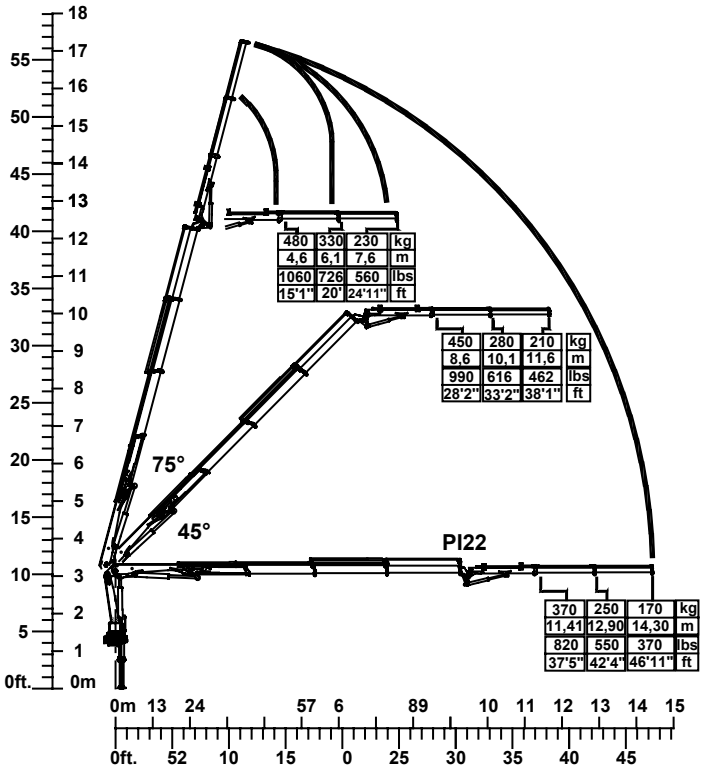


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## 78.3J1




## 78.3J2





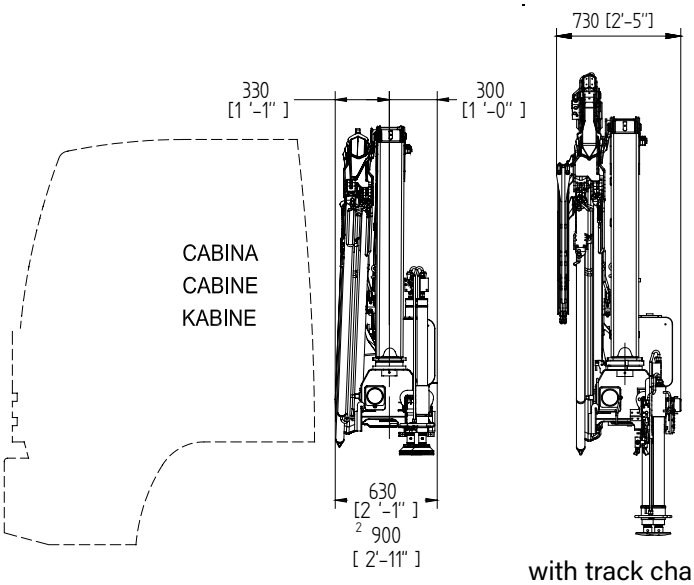




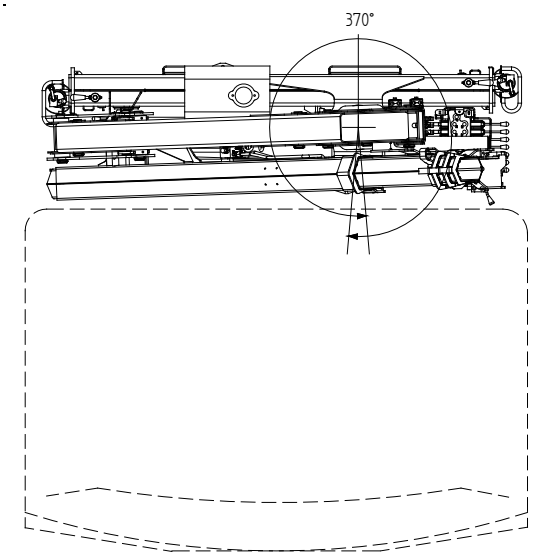

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# Crane Dimensions

## back cabin left



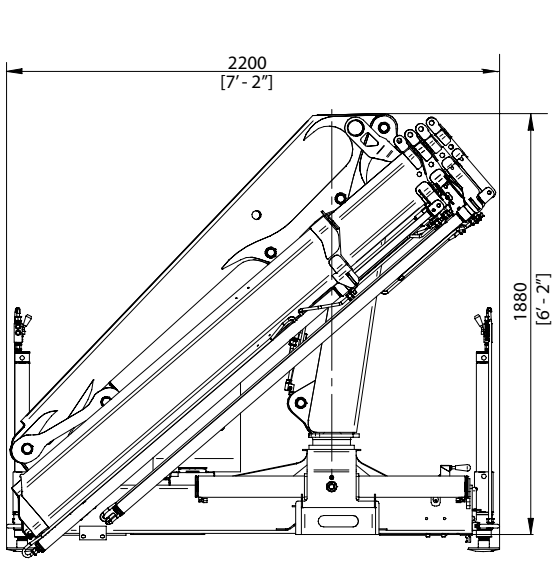

## top cabin

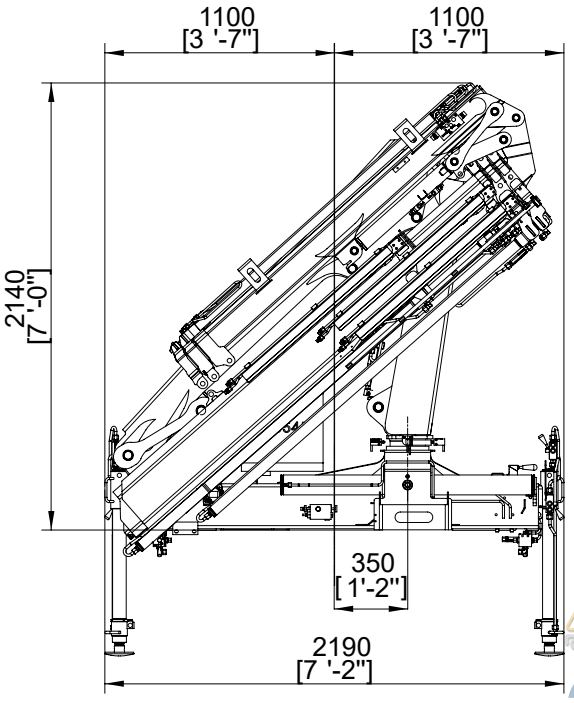



with track chain (78.1-2-3)

[2]With extra functions hose-reel (78.4)

## rear truck

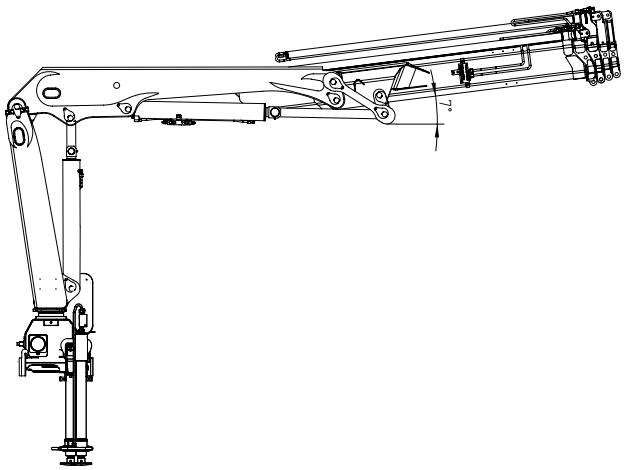


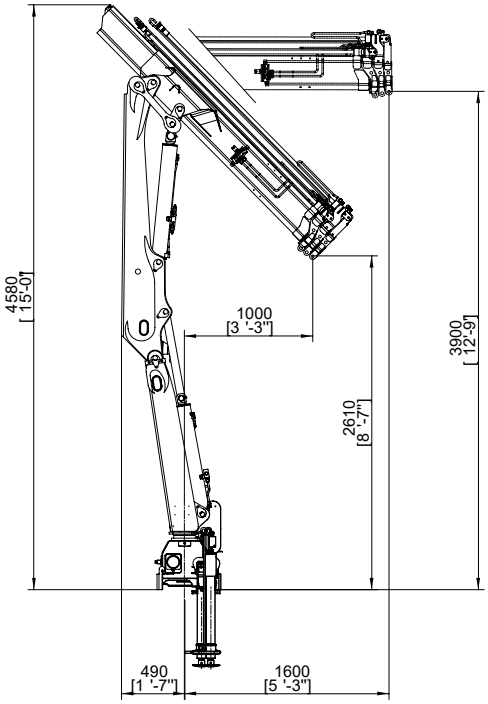





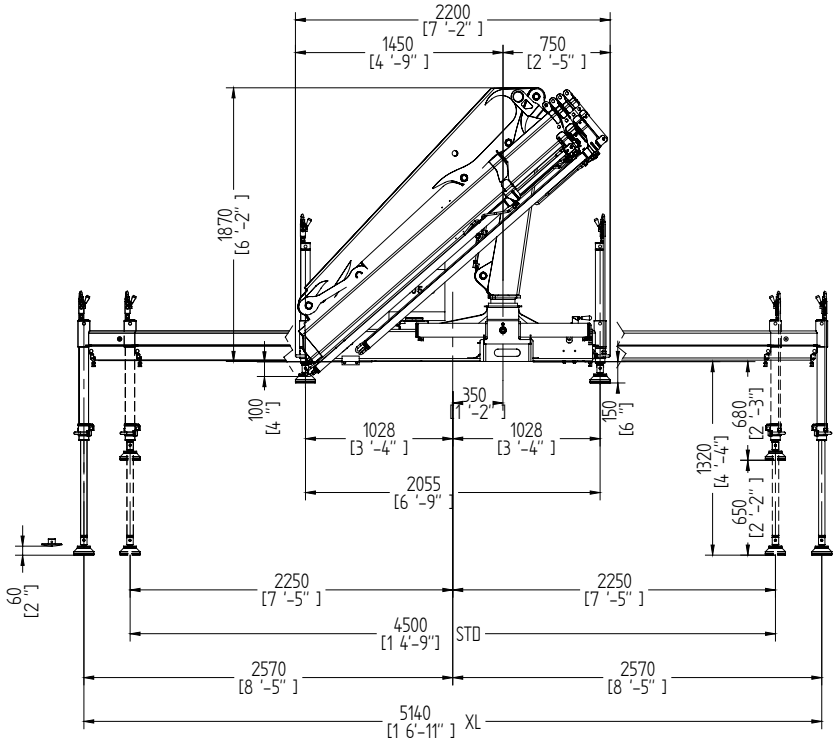
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## operational






## extended outriggers




* Note:
Technical features are not binding.
The company reserves itself the right to any modification without notice


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# 78 ESSENTIAL

## Technical Data

### summarized data

| | kN.m | bar | l/min | kg | ° | mm | mm | mm | mm |
|---|---|---|---|---|---|---|---|---|---|
| 78.1 | 70.6 | 295 | 18 | 800 | 370 | 2195 | 630 | 1880 | 4500/5140 |
| 78.2 | 68.9 | 295 | 18 | 870 | 370 | 2195 | 630 | 1880 | 4500/5140 |
| 78.3 | 64.3 | 295 | 18 | 930 | 370 | 2195 | 630 | 1880 | 4500/5140 |
| 78.3J1 | 64.3 | 295 | 18 | 1060 | 370 | 2195 | 730 | 2137 | 4500/5140 |
| 78.3J2 | 64.3 | 295 | 18 | 1090 | 370 | 2195 | 730 | 2137 | 4500/5140 |
| 78.4 | 61.7 | 295 | 18 | 1000 | 370 | 2195 | 630 | 1880 | 4500/5140 |

| | lbs.ft | psi | gal/min | lbs | ° | ft/inc | ft/inc | ft/inc | ft/inc |
|---|---|---|---|---|---|---|---|---|---|
| 78.1 | 51065 | 4278 | 4,75 | 1765 | 370 | 7'2" | 2'1" | 6'2" | 14'9"/16'10" |
| 78.2 | 49855 | 4278 | 4,75 | 1918 | 370 | 7'2" | 2'1" | 6'2" | 14'9"/16'10" |
| 78.3 | 33272 | 4278 | 4,75 | 2046 | 370 | 7'2" | 2'1" | 6'2" | 14'9"/16'10" |
| 78.3J1 | 33272 | 4278 | 4,75 | 2342 | 370 | 7'2" | 2'5" | 7'0" | 14'9"/16'10" |
| 78.3J2 | 33272 | 4278 | 4,75 | 2408 | 370 | 7'2" | 2'5" | 7'0" | 14'9"/16'10" |
| 78.4 | 32549 | 4278 | 4,75 | 2200 | 370 | 6'6" | 2'1" | 6'2" | 14'9"/16'10" |

### technical data

| | | |
|---|---|---|
| **Max. lifting moment** | 70.6 kNm | 51065 ft.lbs |
| **Max. hydraulic outreach** | 11.22 m | 36' |
| **Slewing angle** | 370° | 370° |
| **Slewing torque** | 900 daNm | 6510 ft.lbs |
| **Stabilizer spread** | 4.50/5.14 mt | 14'9"/16'10" |
| **Fitting space required (min./max)** | 0.63/0.73 m | 2'1"/2'5" |
| **Width folded** | 2.2 m | 7'2" |
| **Max. operating pressure** | 295 bar | 4278 psi |
| **Recommended pump capacity** | 25 l/min | 6.6 US gal./min |
| **Dead weight (vers .1)** | 800 kg | 1765 lbs |

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# GET READY TO A BETTER LIFTING EXPERIENCE


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# COPMA 78

knuckle boom cranes

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