CPS-GROUP.COM

Powerful Synergies




# COPMA®
## 158

ESSENTIAL
MODEL

# COPMA 158

## PERFORMANCE & POWER

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

- **ESSENTIAL model, load category - 15 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 158

## 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 158
## TECHNICAL FEATURES

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

### Standard features

- control

* TAD control
* CMS 1.0 control
* TES 1.0 control

- structure

CCLS structure
NBS structure
RRP structure

### optional features

- easy use

HLS 2.0 easy use
MLS 2.0 easy use
* ERD easy use

- control

* WLC control
* RRC 3.0 control
* CRC 4.0 control
* ELS control

* CE version


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## TAD control — 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.



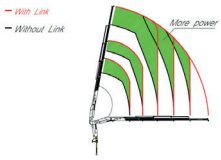

## CMS 1.0 control — CRANE MONITORING SYSTEM 1.0

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



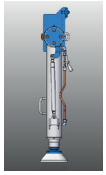

## CCLS structure — CONSTANT CONTROL LINK

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.




## MLS 2.0 easy use — MANUAL LIFTING STABILIZERS 2.0

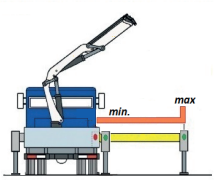
Manual raising of the stabilizers facilitated by a compressed gas cylinder which assists the operator during the rotation of the jack. This system assists the operator with less effort in adjusting the legs.





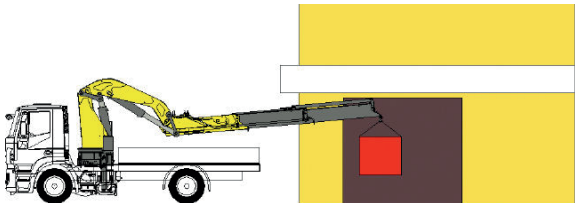
## TES 1.0 control — TRUCK ELECTRONIC STABILITY 1.0

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.



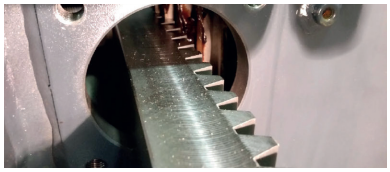

## NBS structure — NEGATIVE BOOM SYSTEM

The linkage on the articulation of the secondary boom permits the introduction of loads within restricted spaces. It enables the recovery of the deflection of the extension boom group due to the weight and the load raised on the extensions.



## RRP structure — 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.



## ERD easy use — ELECTRONIC RADIO DISPLAY

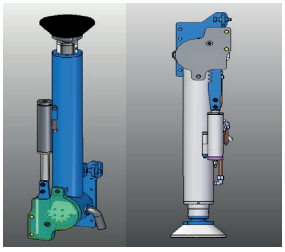
A display on the remote control allows the operator to maintain the total control of all the crane functions in real time by managing the work mode, the stability control, and oversee any maintenance and diagnostic messages.



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## HYDRAULIC LIFTING STABILIZERS 2.0

The cylinder of the stabilizer is lifted with an auxiliary jack, allowing the vertical movement within the bushes or rotating around a pin. It saves operative time in increasing the security of the setup.



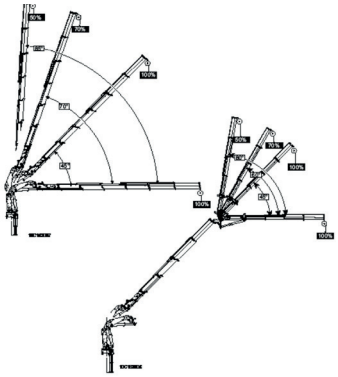
## RADIO REMOTE CONTROL 3.0

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



## WINCH LINEAR CONTROL

The winch linear electronic control allows pulling the rope according to the working angle of the crane and the JIB .
It optimize the load control and makes every movement easier and safer.

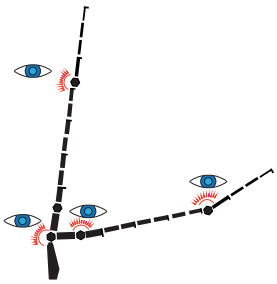


## COPMA ® REMOTE CONNECTIVITY 4.0

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.

## ELECTRONIC LIMIT SWITCH

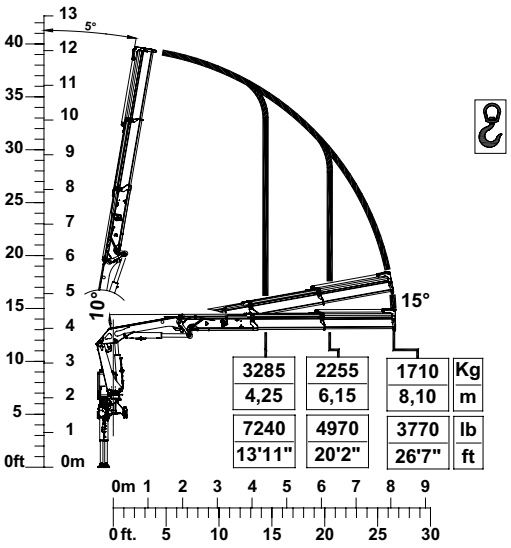
Electronic limit switch on articulation rams.
This device prevents the end run and therefore avoids the pressure peaks that stall the machine. The crane works in a smoother and safer way.



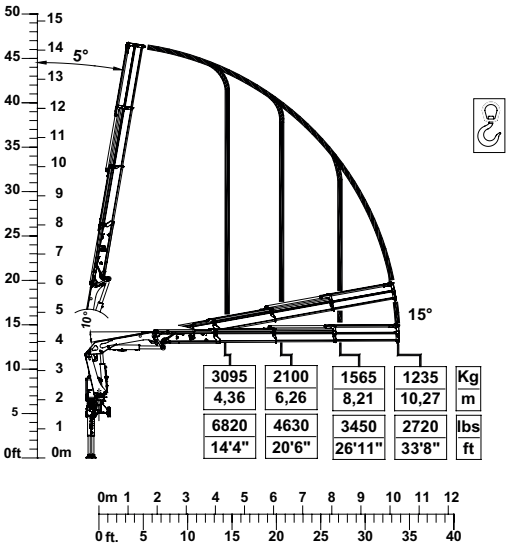
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# LOAD CHARTS

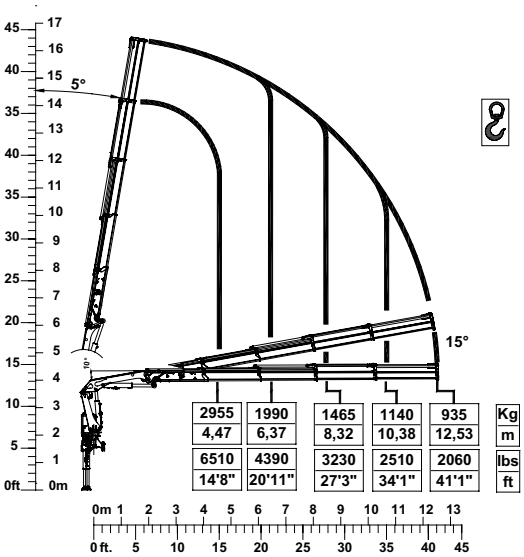
## 2 extensions



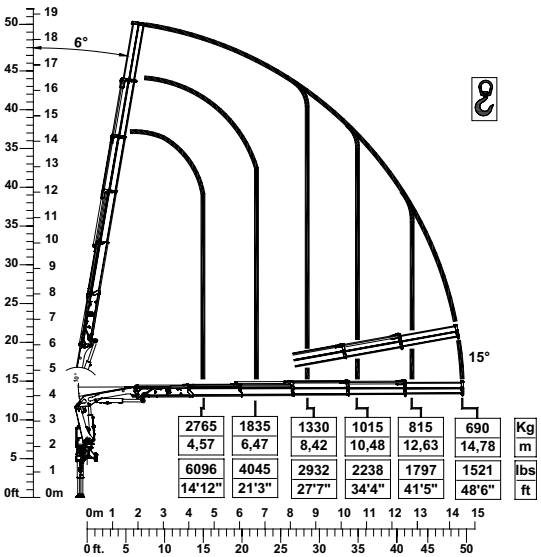

## 3 extensions




## 4 extensions



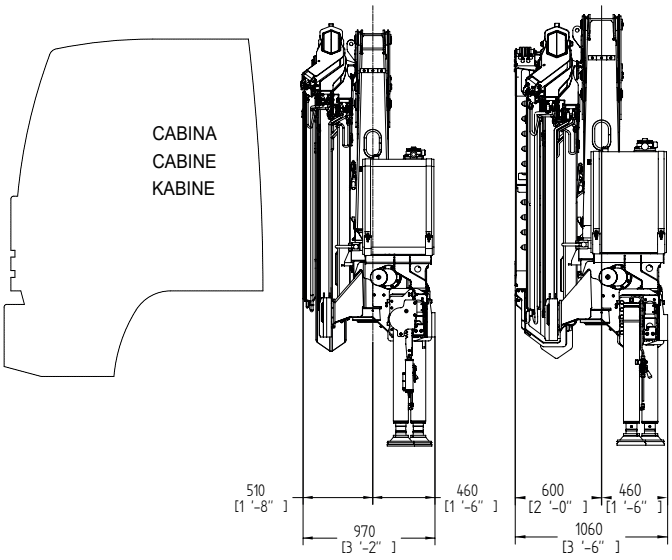

## 5 extensions




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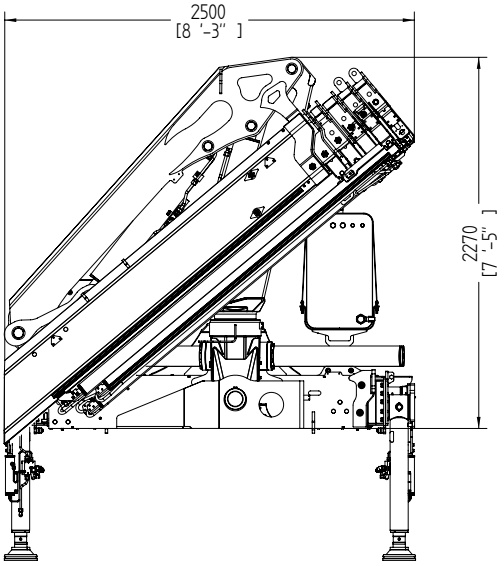
# CRANE DIMENSIONS

## back cabin left

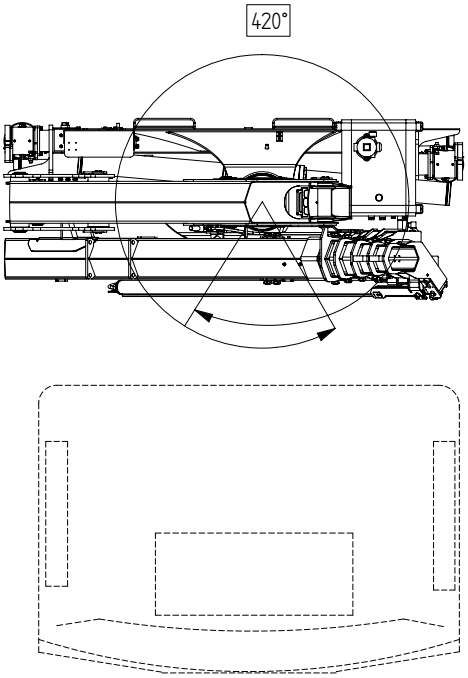



with track chain

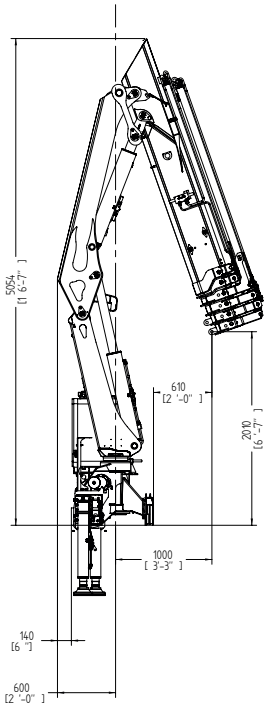
## rear truck




## top cabin



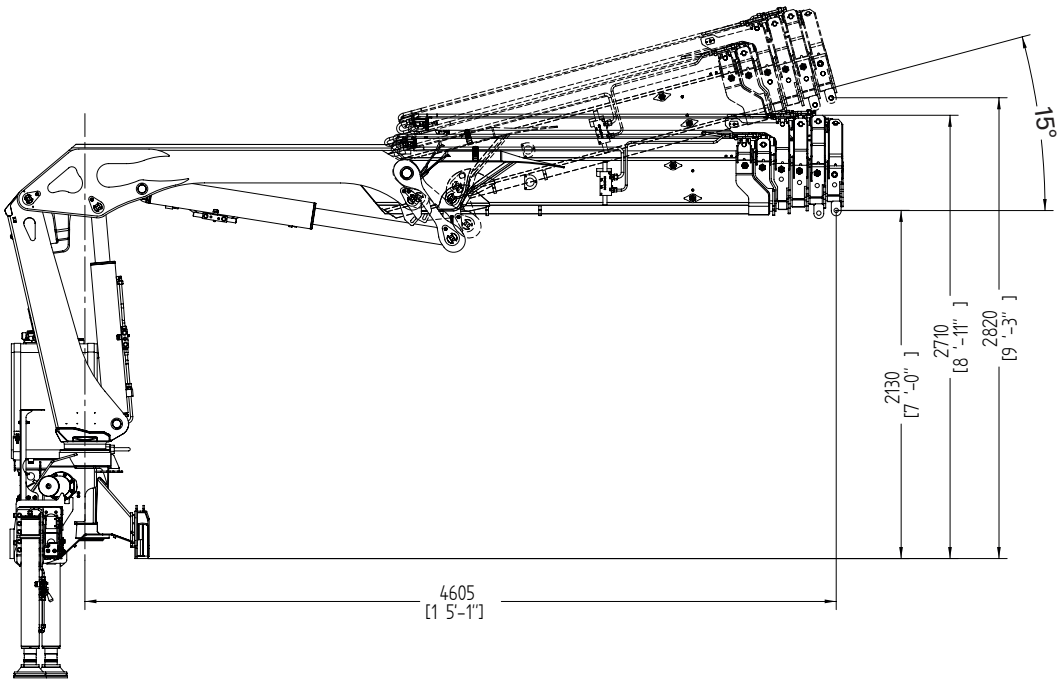

## operational



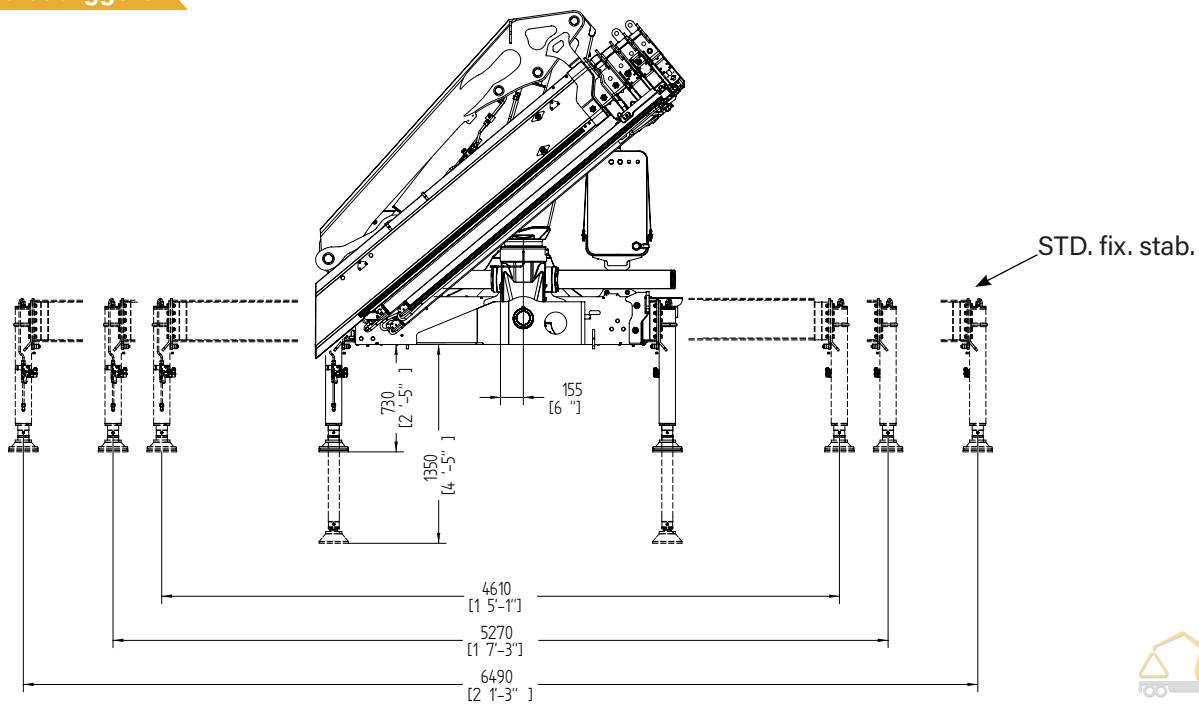


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## operational




## extended outriggers




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

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# 158 ESSENTIAL

## TECHNICAL DATA

### summarized data

| | kN.m | bar | l/min | kg | ° | mm | mm | mm | mm |
|---|---|---|---|---|---|---|---|---|---|
| 158.2 | 137 | 315 | 35 | 1800 | 420 | 2500 | 900 | 2270 | 4600/5270/6500 |
| 158.3 | 132,5 | 315 | 35 | 1920 | 420 | 2500 | 900 | 2270 | 4600/5270/6500 |
| 158.4 | 129,7 | 315 | 35 | 2030 | 420 | 2500 | 910 | 2270 | 4600/5270/6500 |
| 158.5 | 123,9 | 310 | 35 | 2135 | 420 | 2500 | 1000 | 2270 | 4600/5270/6500 |

| | lbs.ft | psi | gal/min | lbs | ° | ft/inc | ft/inc | ft/inc | ft/inc |
|---|---|---|---|---|---|---|---|---|---|
| 158.2 | 101011 | 4568 | 9,25 | 3968 | 420 | 8’2” | 2’10” | 7’5” | 15’1”-17’3”-21’3” |
| 158.3 | 97693 | 4568 | 9,25 | 4232 | 420 | 8’2” | 2’11” | 7’5” | 15’1”-17’3”-21’3” |
| 158.4 | 95629 | 4568 | 9,25 | 4784 | 420 | 8’2” | 3’ | 7’5” | 15’1”-17’3”-21’3” |
| 158.5 | 91352 | 4495 | 9,25 | 4706 | 420 | 8’2” | 3’3” | 7’5” | 15’1”-17’3”-21’3” |

### technical data

| | | |
|---|---|---|
| **Max. lifting moment** | 137 kNm | 101011 ft.lbs |
| **Max. hydraulic outreach** | 14.85 m | 48’72” |
| **Slewing angle** | 420° | 420° |
| **Slewing torque** | 1900 daNm | 14009 ft.lbs |
| **Stabilizer spread** | 4.60/5.27/6.5 mt | 15’1”/ 17’3” 21’3” |
| **Fitting space required (min./max)** | 0.80 m/0.97 m | 2’10”/3’2” |
| **Width folded** | 2,50 m | 8’2” |
| **Max. operating pressure** | 305 bar | 4425 psi |
| **Recommended pump capacity** | 35 l/min | 9,25 US gal./min |
| **Dead weight (vers .2)** | 1800 kg | 3968 lbs |

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# SUPERIOR RELIABILITY FOR EVERY OPERATOR

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# GET READY TO A BETTER LIFTING EXPERIENCE

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# COPMA
# 158



## KNUCKLE BOOM CRANES

*Powerful Synergies*


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