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**

THE MOST POWERFUL CRANE FOR THE TOUGHEST MARKETS

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**

DESIGNED FOR FLEXIBLE SERVICES

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 2.0 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 — HSE easy use

- control

  WLC control — RRC 3.0 control — * CMS 2.0 control

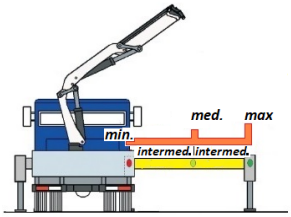
*E.C. market specific equipement

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.

TES 2.0 control — Truck Electronic Stability 2.0

Active stability control for performance optimization according to the type of stabilization (2) to guarantee maximum safety in all working conditions. Mandatory in the CE market, it helps a better vehicle-crane configuration.

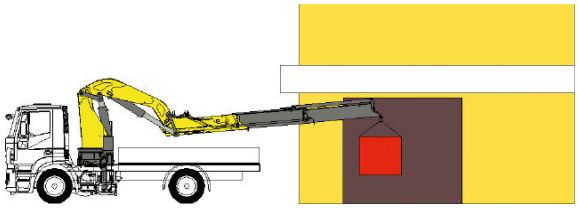


CMS 1.0 control — Crane Monitoring System 1.0

Crane stability control system TES1-TES2, 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.

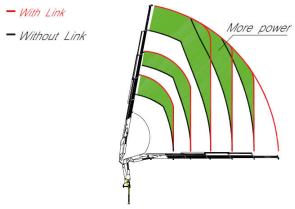
NBS structure — Negative Boom System

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.



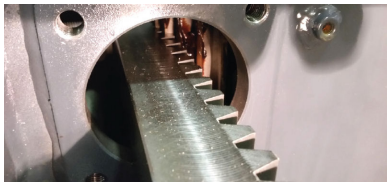
CCLS structure — Constant Control Link

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.



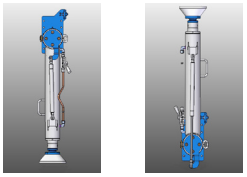
RRP structure — Rotation Rack Pinion

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.



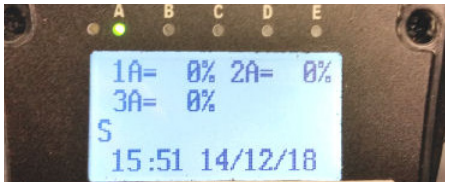
MLS 2.0 easy use — Manual Lifting Stabilizers 2.0

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.



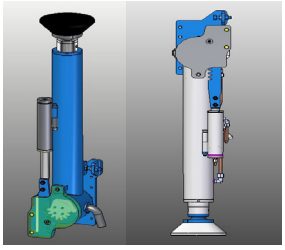
ERD easy use — Electronic Radio Display

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.



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.



High Speed Extension

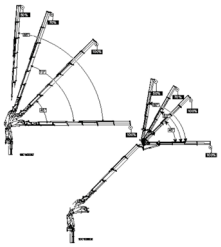
Hydraulic system for reducing load losses and bottlenecks for the correct output sequence of the extensions by increasing the speed of 30%-60% thanks to the regenerative valve. Greater continuous performance thanks to lower fluid temperature.

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.



Crane Monitoring System 2.0

Crane stability control system TES2-TES3 with safety and overload controls and HPVE lifting speed management.
Active control on 4-8 working areas according to the model and vehicle stability requirements.

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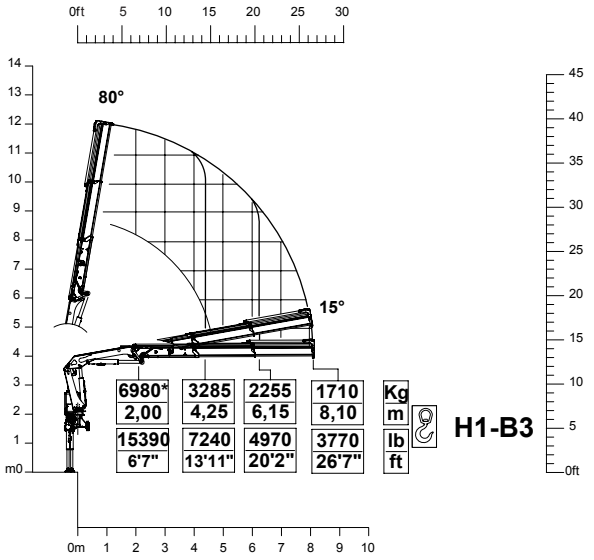
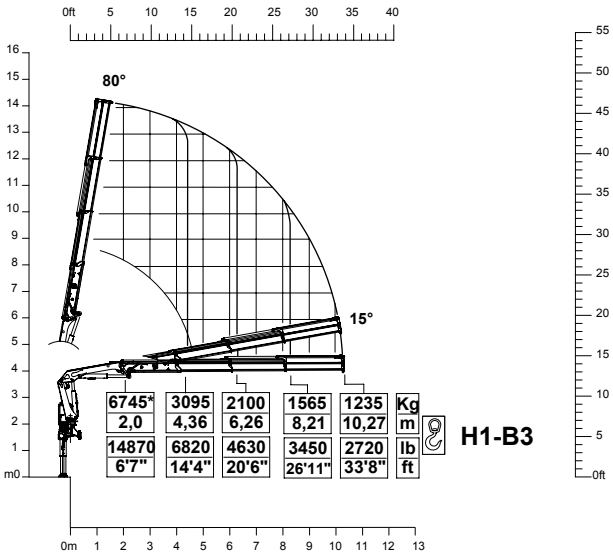
Load Charts

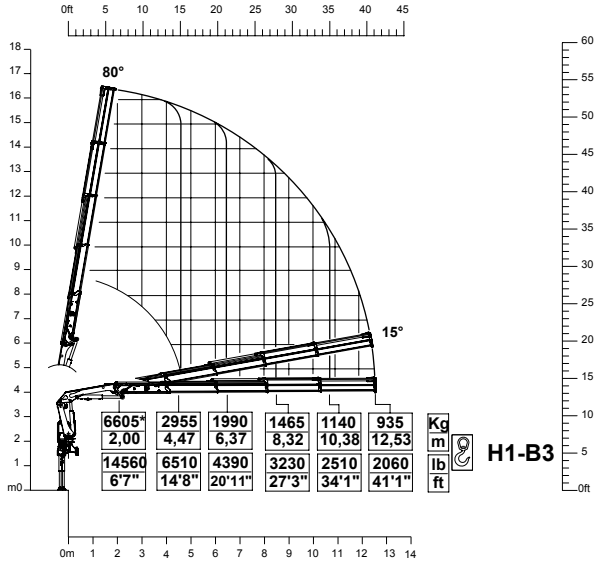
2 extensions



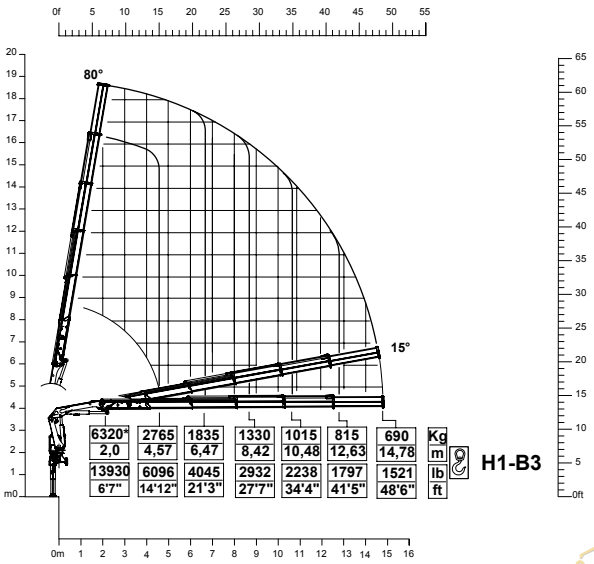
3 extensions



4 extensions



5 extensions



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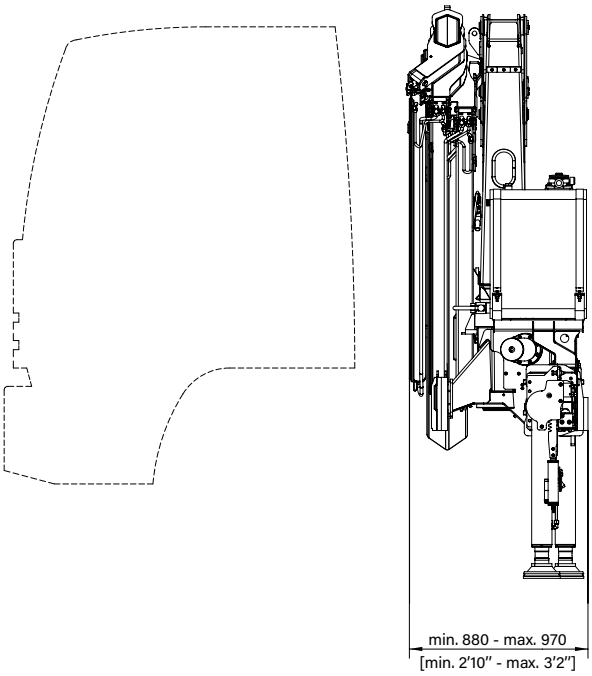
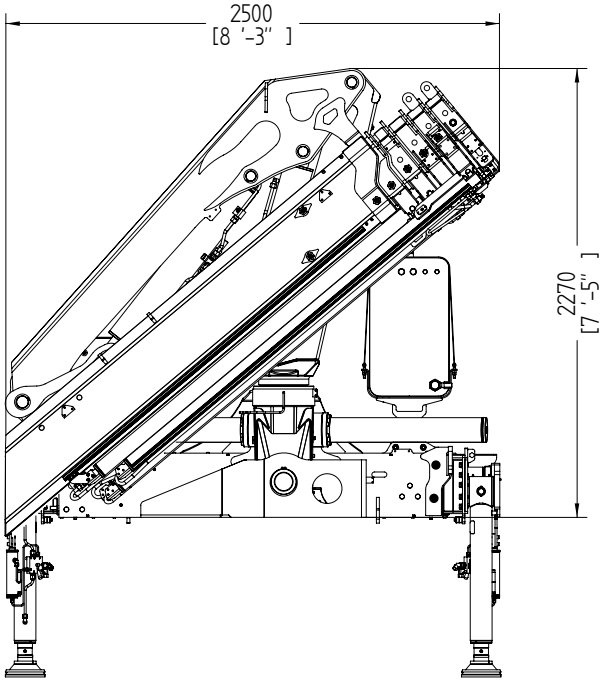
Crane Dimensions

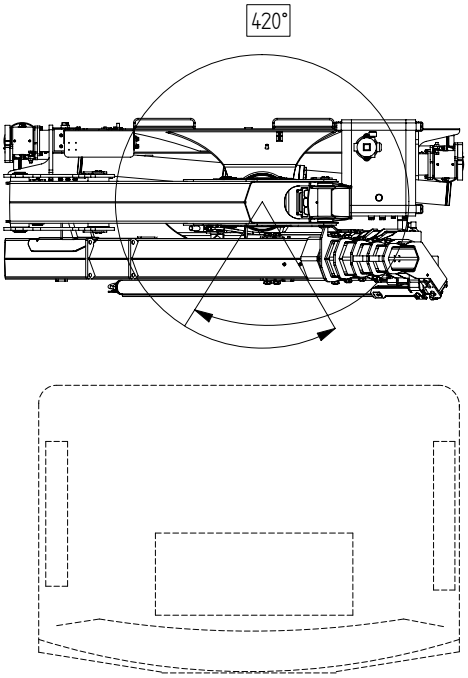
back cabin left



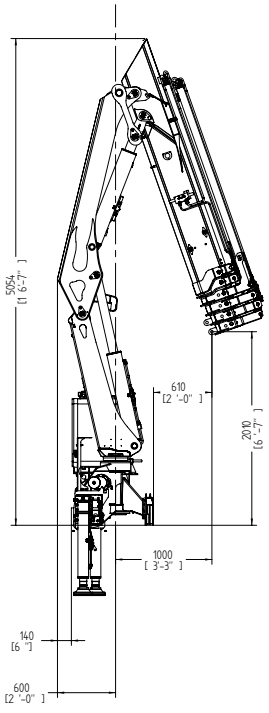
rear truck



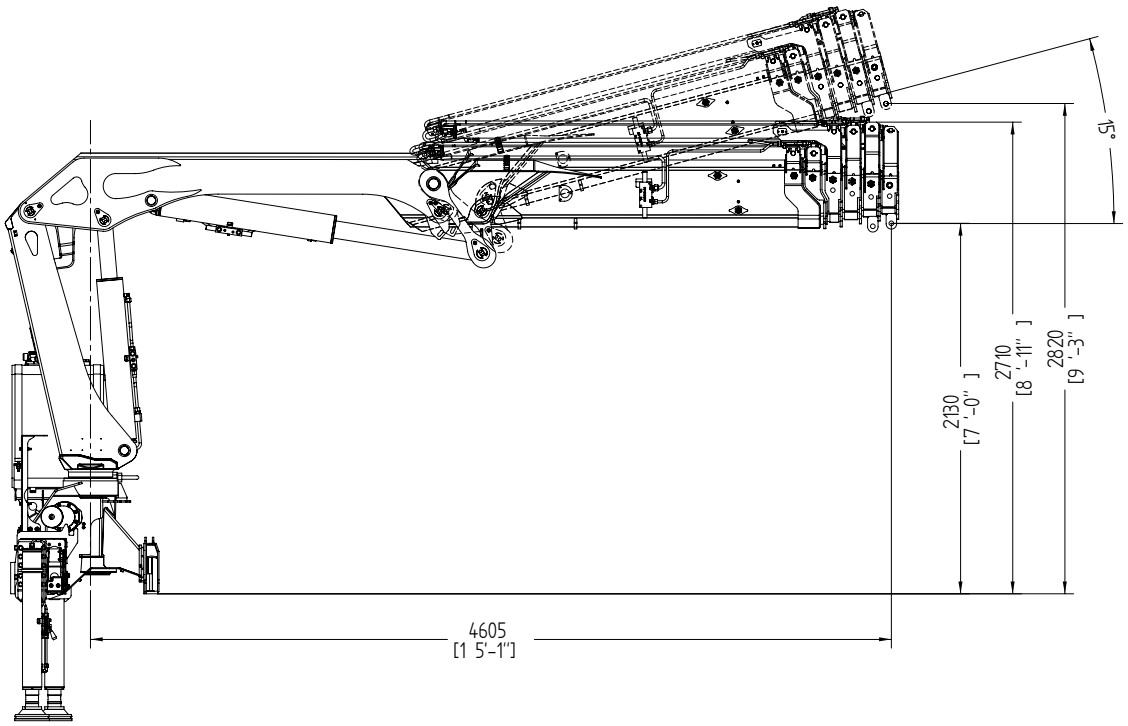
top cabin



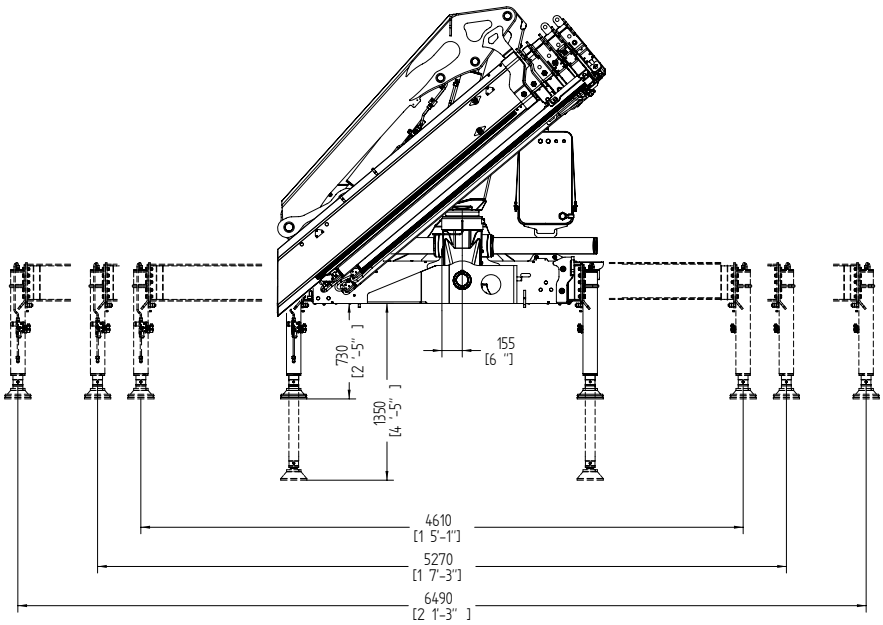
operational



operational



extended outriggers



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

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Technical Data

summarized data

	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
158.2	137	305	40	1800	420	2500	880	2270	4600/5270/6500
158.3	132,5	305	40	1920	420	2500	880	2270	4600/5270/6500
158.4	129,7	305	40	2030	420	2500	910	2270	4600/5270/6500
158.5	123,9	305	40	2135	420	2500	970	2270	4600/5270/6500

	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
158.2	101011	4425	10,57	3968	420	8'2"	2'10"	7'5"	15'1"-17'3"-21'3"
158.3	97693	4425	10,57	4232	420	8'2"	2'12"	7'5"	15'1"-17'3"-21'3"
158.4	95629	4425	10,57	4784	420	8'2"	3'	7'5"	15'1"-17'3"-21'3"
158.5	91352	4425	10,57	4706	420	8'2"	3'2"	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	40 l/min	10.57 US gal./min
Dead weight (vers .2)	1800 kg	3968 lbs

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SUPERIOR RELIABILITY FOR EVERY OPERATOR

COPMA 158

knuckle boom cranes

Powerful Synergies

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