cps-group.com

Powerful Synergies



COPMA
3500

TOP RANGE
MODEL



COPMA 3500

Performance & Power

3500 HAS A STRONG AND FLEXIBLE DESIGN TO SERVE THE NEEDS OF THE TOUGHEST MARKETS AND THE MOST DEMANDING OPERATORS.

- **TOP RANGE - HEAVY RANGE model, over 300 Ton/Mt**
- **High tensile strength steel**
- **Efficient safety system**
- **Reliability, speed and precision**
- **Extra long working life cycle**
- **Easier maintenance operations**

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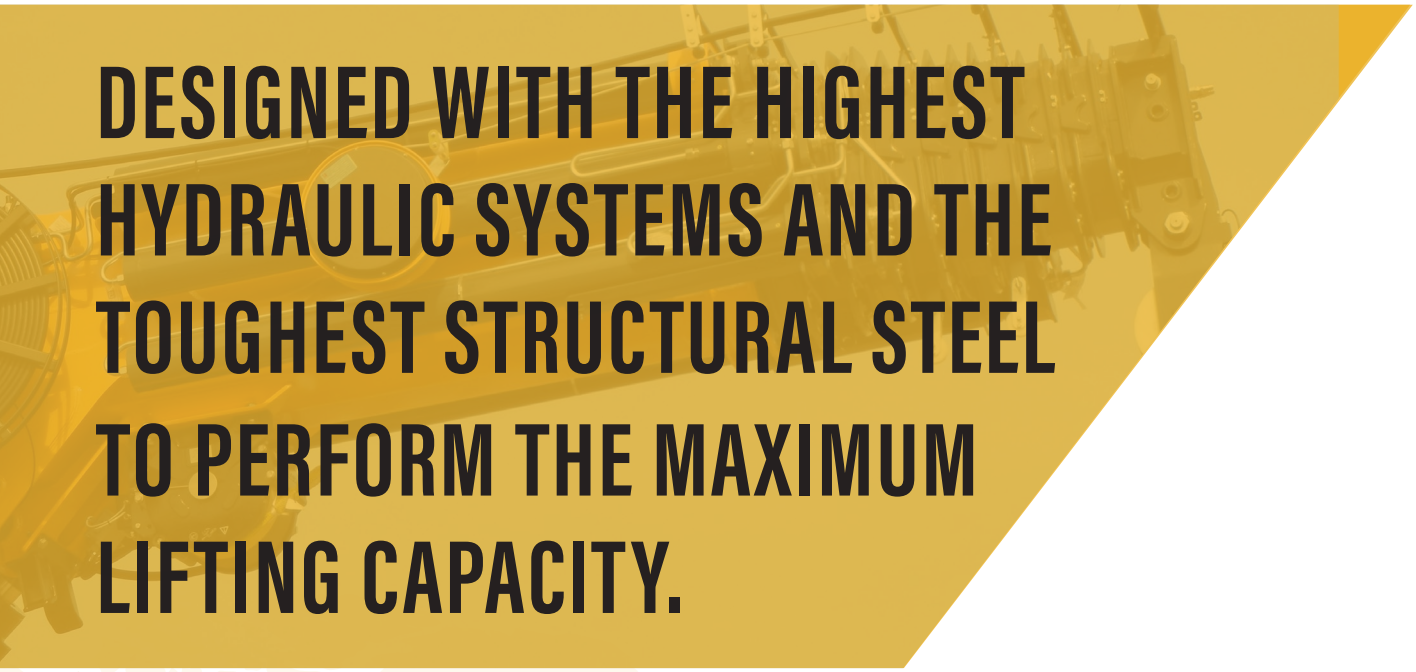


THE MOST POWERFUL CRANE FOR THE TOUGHEST MARKETS

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COPMA 3500

More Safety & Security



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

- **Superior Hydraulic Technology**
- **Dynamic Electronic Controls**
- **High Degree of User Friendliness**
- **Efficiency and Reliability thanks to superior structural features**
- **More Efficiency with advanced electronic controls.**

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DESIGNED FOR FLEXIBLE SERVICES

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COPMA 3500

Technical Features



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

Standard features

- easy use

HSE easy use | ERD easy use | HPV E easy use | HLS 2.0 easy use

- control

TAD control | RRC 3.0 control | CMS 3.0 control | TES 4.0 control | NCS control

- structure

CCLS structure | NBS structure | RES 2.0 structure | HTSS structure

optional features

- control

WLC control | PJM control | CMS 3.0 control

*E.C. market specific equipment

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HSE easy use — 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.



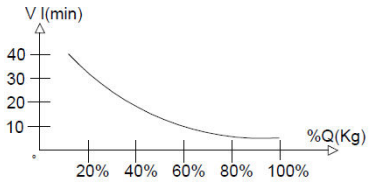
ERD easy use — Electronic Radio Display

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.



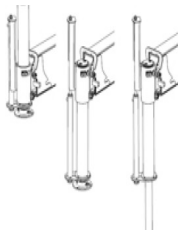
HPV E easy use — High Power Velocity Electronic

A valve electronically manages the flow of oil to the distributor by increasing the load capacity of the crane and intervening on the lifting speed. Allowing the reduction of dynamic effects while optimizing performance.



HLS 2.0 easy use — Hydraulic Lifting Stabilizers 2.0

The stabilizer cylinder is lifted thanks to an auxiliary jack, allowing the vertical movement inside a bush or a rotation around a pin. This easy use system saves time and allows an efficient stabilizer set up.



TAD control — Transport Alert Device

Sensors on the basement guarantee 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.



RRC 3.0 control — Radio Remote Control 3.0

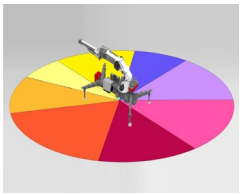
Radio control with directly flanged actuation electronics with proportional distribution.
The remote control allows operating the crane while constantly monitoring the areas of operation.



CMS 3.0 control — Crane Monitoring System 3.0

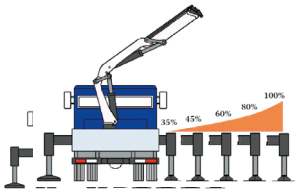
Crane stability control system TES2-TES3, with safety and overload controls medium high-range crane and HPVE lifting speed management. Active control on 4-8 working areas according to the model and vehicle stability requirements.





TES 4.0 control — Truck Electronic Stability 4.0

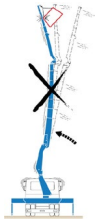
Active stability control for performance optimization according to the type of stabilization (4) to guarantee maximum safety in all working conditions. Mandatory in the CE market, it helps a better vehicle-crane configuration.



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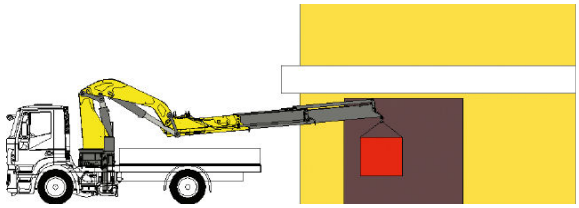
Negative Control System

Slope sensors mounted on the articulated booms of the crane, combined with the electronic control, manage the maximum vertical angle of the arms and the JIB preventing incorrect or dangerous movements by the operator.



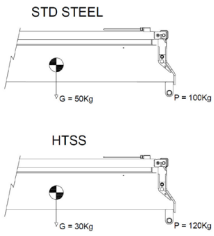
Negative Boom System

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.



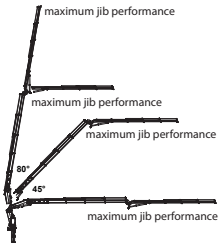
High Tensile Strength Steel

The entire high-strength steel structure thanks to an advanced FEM engineering process, develops an extraordinarily light and performing crane structure. In the perfect balance between maximum performance and operational safety.



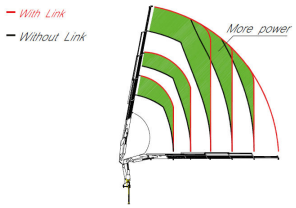
Power Jib Monitoring

The PJM system guarantees to operate with the maximum performance in every working condition thanks to a dynamic variation of the maximum pressure according to the crane arm angles.



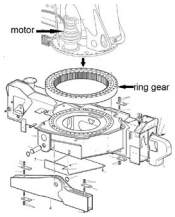
Constant Control Link

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.



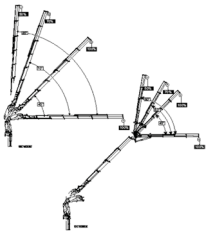
Rotation Endless System 2.0

Rotating system with bearing and double gearbox, equipped with clearance adjusting system with eccentric shaft.
It provides the perfect transmission of the rotation with the bearing.



Winch Linear Control

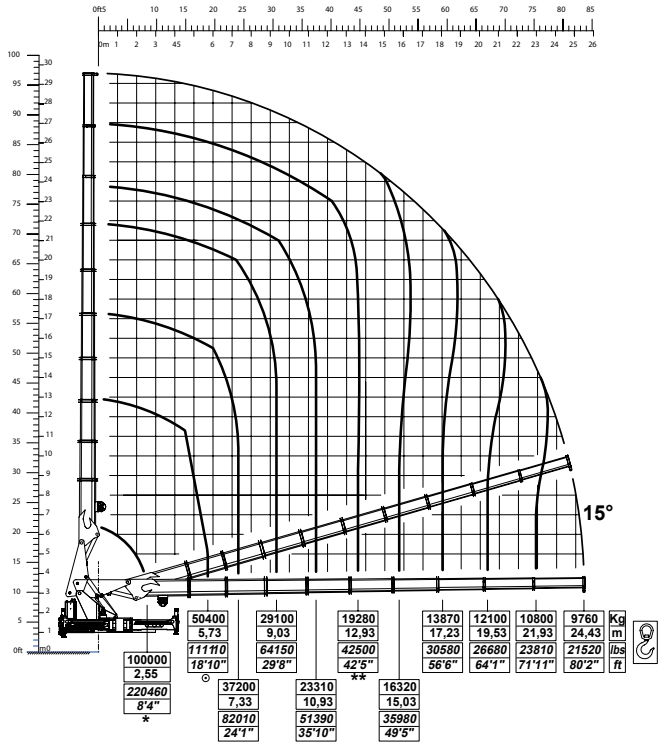
The winch linear electronic control allows pulling the rope according to the working angle of the crane and the JIB .
It optimize the load control and makes every movement easier and safer.



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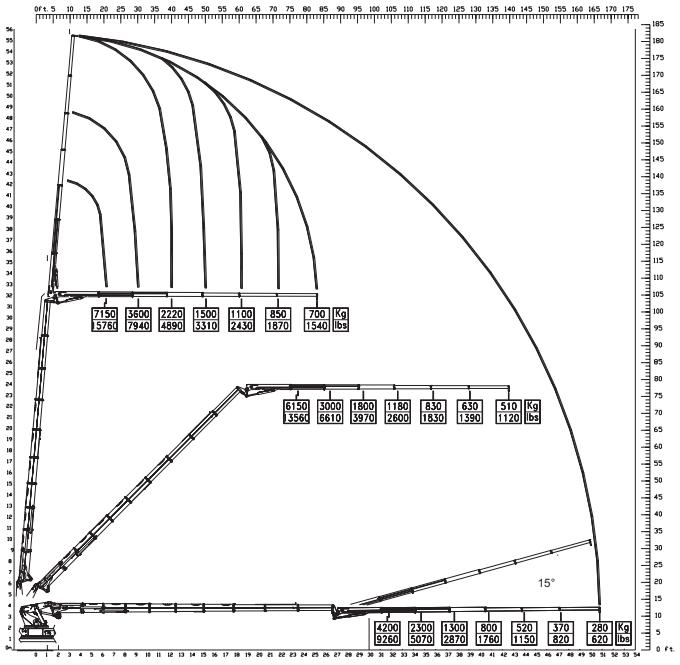
3500 TOP RANGE

9 extensions



(*) portata max. al gancio fisso con gancio e attacco opzionali –(⊙) max. carico passante dall'orizzontale con braccio secondario a 0° –(**) max. carico appeso e trattenuto dai cilindr
(*) Max load with fixed hook optional -- (⊙) Max. load with secondary boom in orizontal position --(**) Max. load attached to the extensions and secondary boom in selon position

3500.9+j6

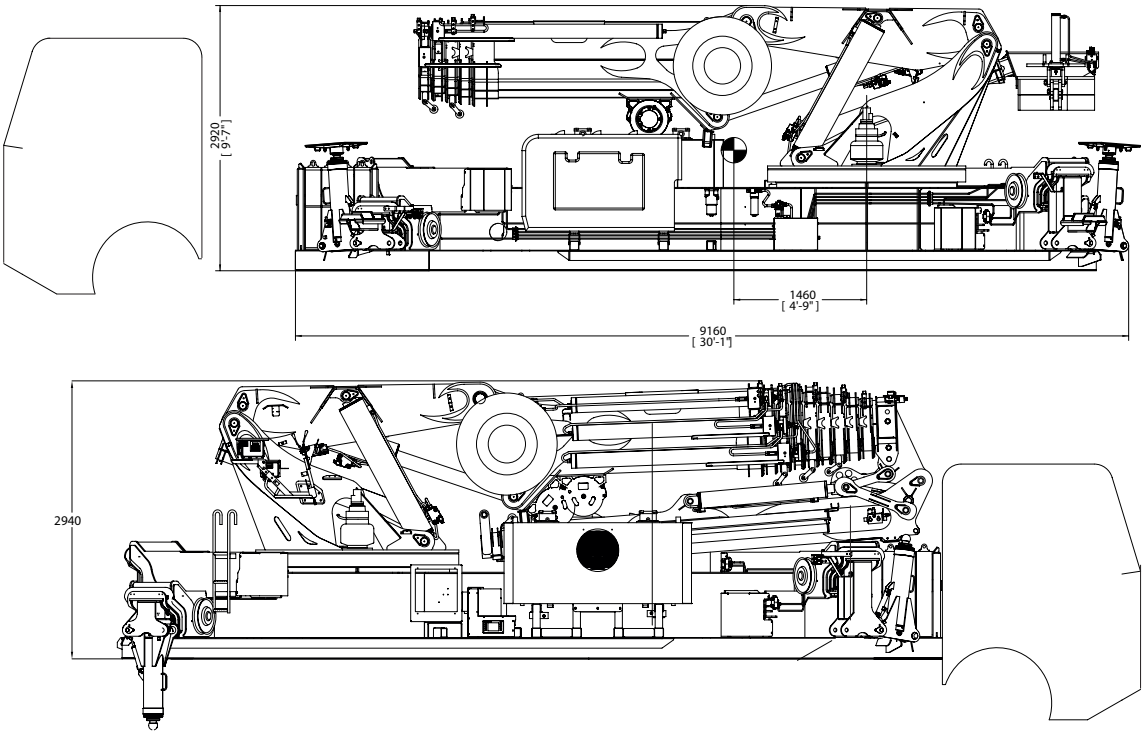


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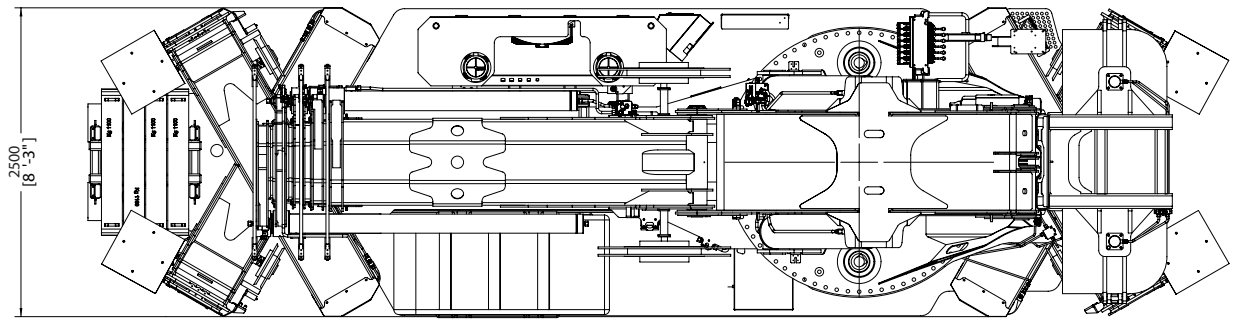
3500 TOP RANGE

Crane Dimensions

back cabin

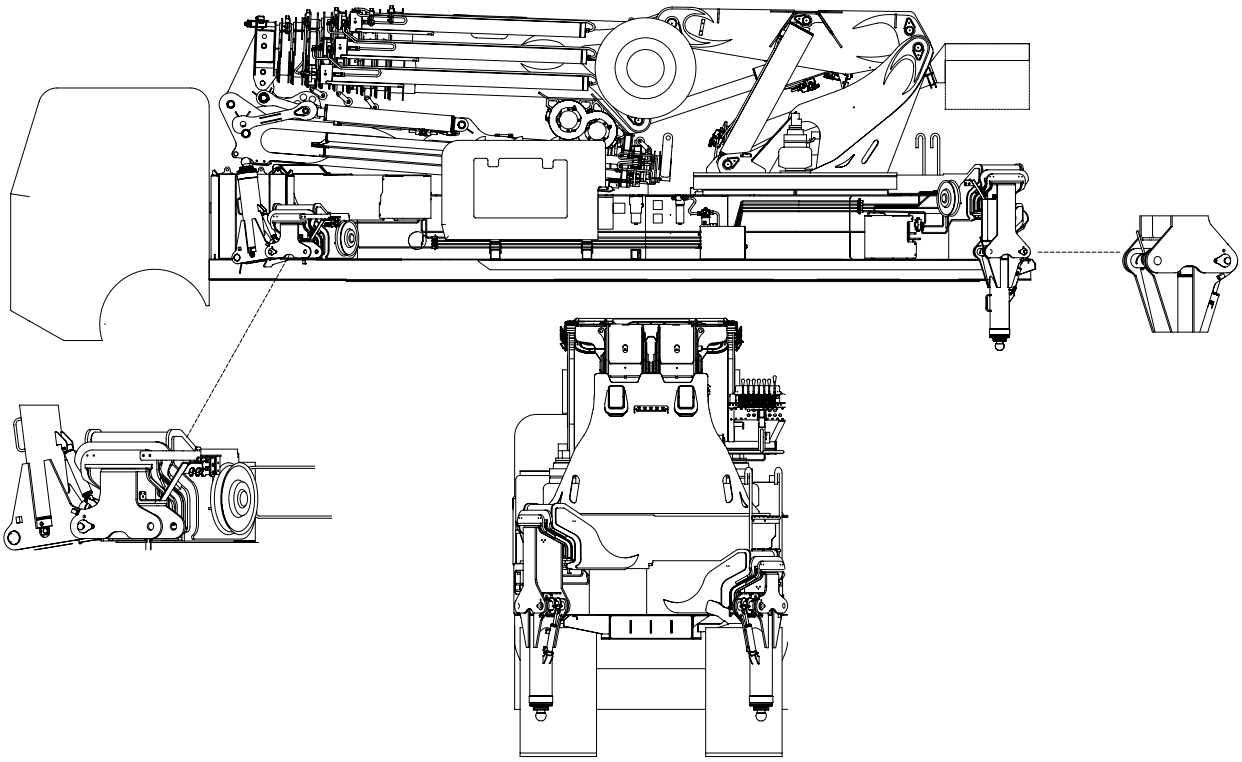


top cabin

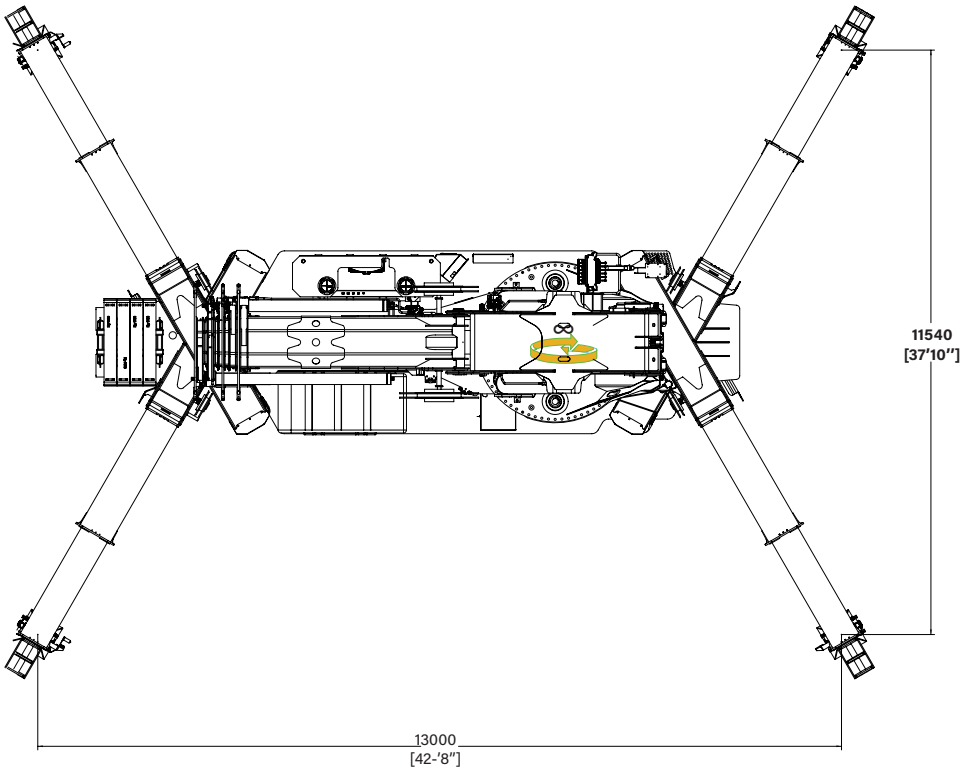


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operational



extended outriggers



* Note: technical features are not binding, the company reserves itself the right to any modification without notice

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3500 TOP RANGE

Technical Data

summarized data

	kN.m	bar	l/m	kg	°	mm	mm	mm	mm
3500.9	2700	330	100+50	/	∞	2500	/	/	11540
3500.9J7	2700	330	100+50	/	∞	2500	/	/	11540

	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
3500.9	1952910	4785	26,3+13,1	/	∞	8'2"	/	/	37'10"
3500.9J7	1952910	4785	26,3+13,1	/	∞	8'2"	/	/	37'10"

technical data

Max. lifting moment	2700 kNm	656756 ft.lbs
Max. hydraulic outreach	26.65 m	78'1"
Slewing angle	∞	∞
Slewing torque	25000 kNm	184390 ft.lbs
Stabilizer spread	11,54 mt	37'10"
Fitting space required (min./max)	1.66 m/1.85 m	5'5"/6'1"
Width folded	2,50 m	8'2"
Max. operating pressure	330 bar	4785 psi
Recommended pump capacity	100+50 l/min	26,3+13,1 US gal./min

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SUPERIOR RELIABILITY FOR EVERY OPERATOR

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COPMA 3500



knuckle boom cranes

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