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Powerful Synergies

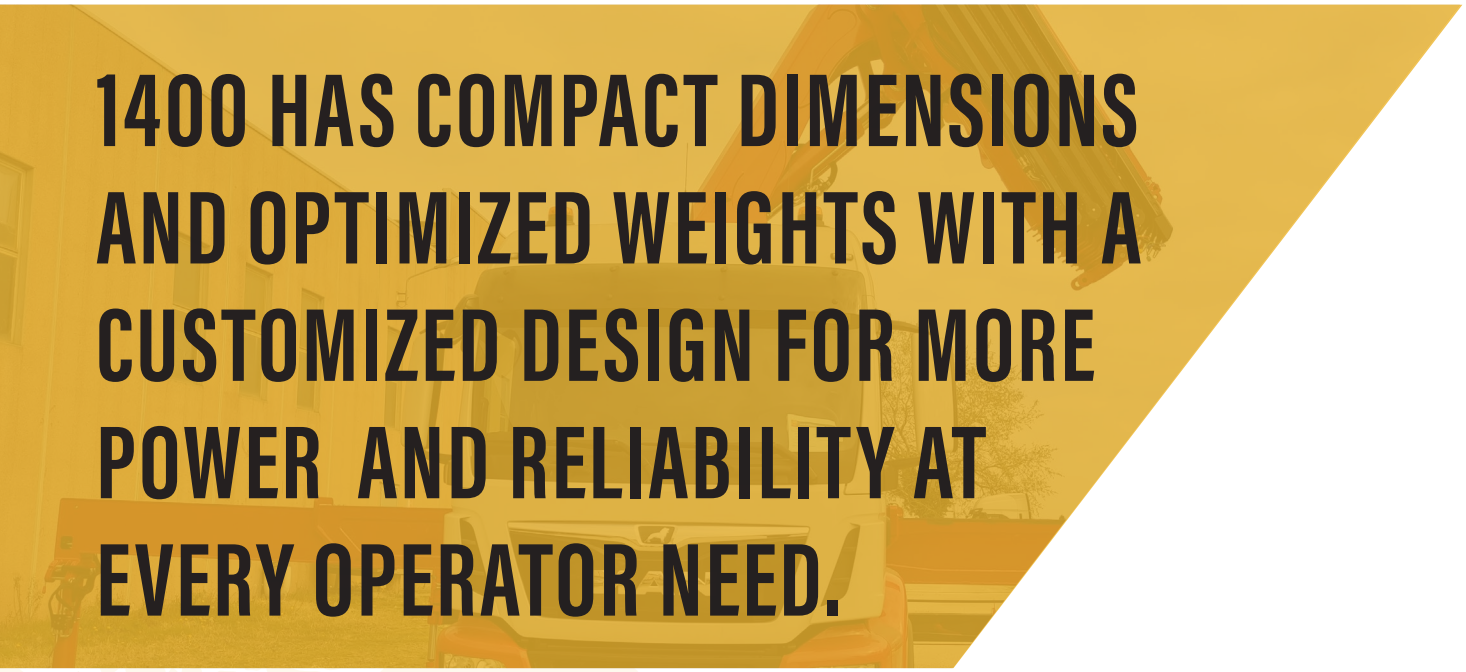


COPMA® 1400

TOP RANGE MODEL

COPMA 1400

Performance & Power



1400 HAS COMPACT DIMENSIONS AND OPTIMIZED WEIGHTS WITH A CUSTOMIZED DESIGN FOR MORE POWER AND RELIABILITY AT EVERY OPERATOR NEED.

- **TOP RANGE - HEAVY RANGE model, load category - 140 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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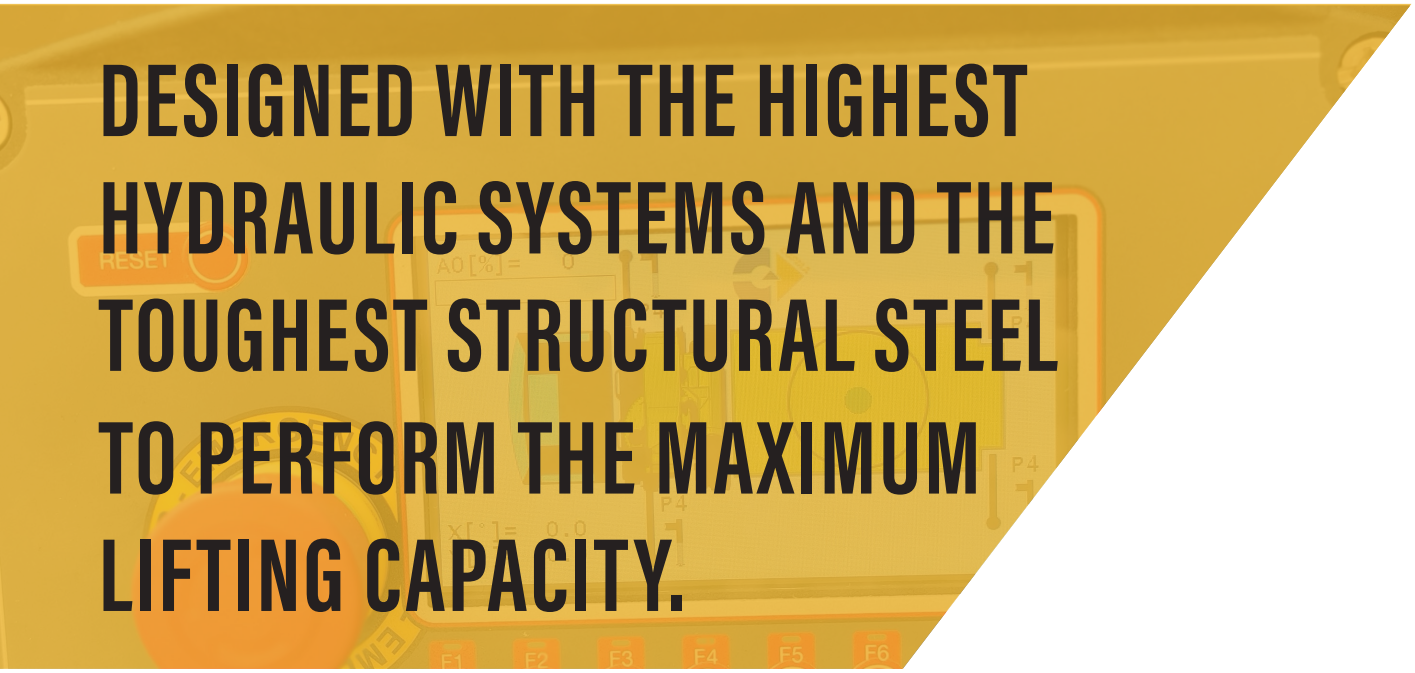


THE MOST POWERFUL CRANE FOR THE TOUGHEST MARKETS

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COPMA 1400

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 1400

Technical Features



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

Standard features

- easy use
  - HSE easy use
  - HPVe easy use
  - ERD easy use
  - HLS 2.0 easy use
- control *
  - TAD control
  - CMS 3.0 control
  - TES 4.0 control
  - NCS control
  - RRC 3.0 control
- structure
  - CCLS structure
  - NBS structure
  - RES 2.0 structure
  - HTSS structure

optional features

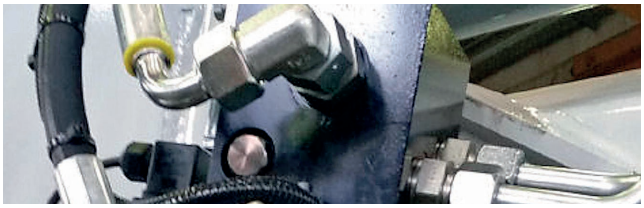
- control
  - WLC control
  - PJM control
  - CRC 4.0 control

*E.C. market specific equipment

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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.



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.



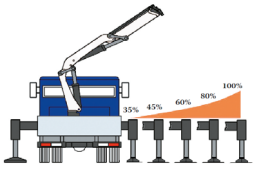
Transport Alert Device

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



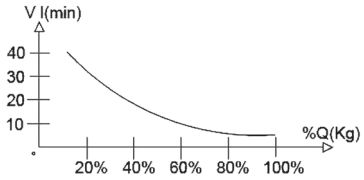
Truck Electronic Stability 4.0

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.



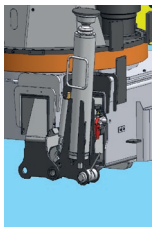
High Power Velocity Electronic

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 and allowing the reduction of dynamic effects while optimizing performance.



Hydraulic Lifting Stabilizers 2.0

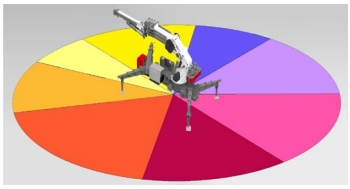
The cylinder of the stabilizer is lifted with an auxiliary jack, allowing the vertical movement within the bushes or rotating around a pin. It saves operative time in increasing the security of the setup.



Crane Monitoring System 3.0

Crane stability control system TES2-TES3, with safety and overload system, 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 with TES4.





Negative Control System

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



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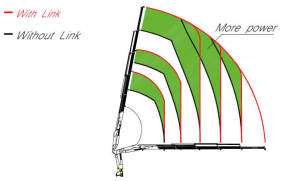
Radio Remote Control 3.0

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



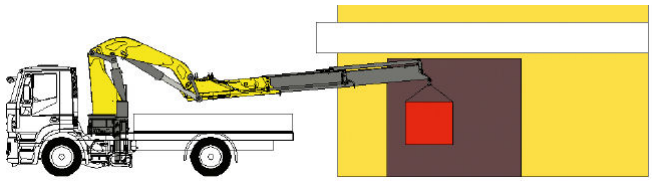
Constant Control Link System

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.



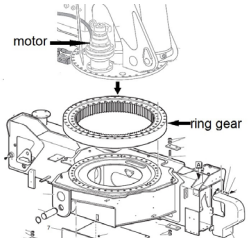
Negative Boom System

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.



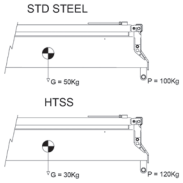
Rotation Endless System 2.0

A rotating bearing and double gearbox system, with a clearance adjusting system with an eccentric shaft. It provides the perfect transmission of the rotation with the bearing, allowing better crane optimization.



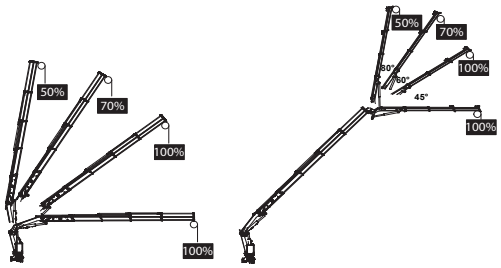
High Tensile Strength Steel

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.



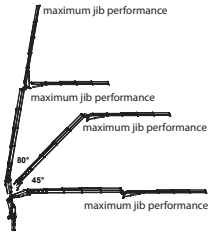
Winch Linear Control

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



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.



COPMA ® Remote Connectivity 4.0

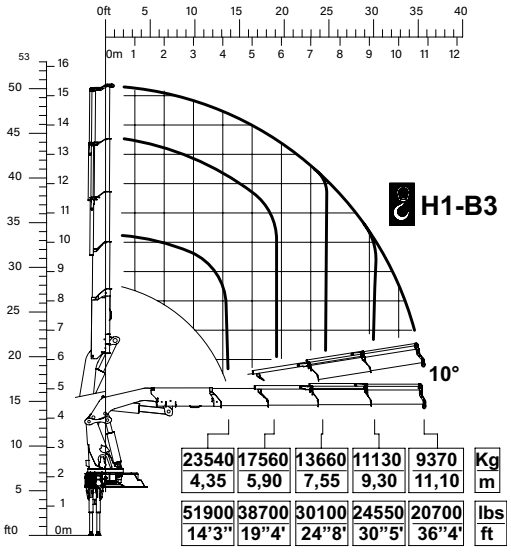
Connettività remota COPMA® 4.0 alla gru.
Comunicazione bidirezionale tramite GPRS per diagnosi in tempo reale e impostazione e / o regolazione remota dei parametri in tempo reale.

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1400 TOP RANGE

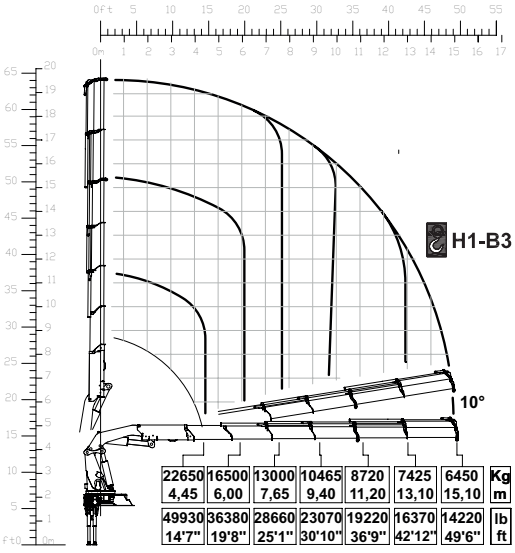
Load Charts

4 extensions



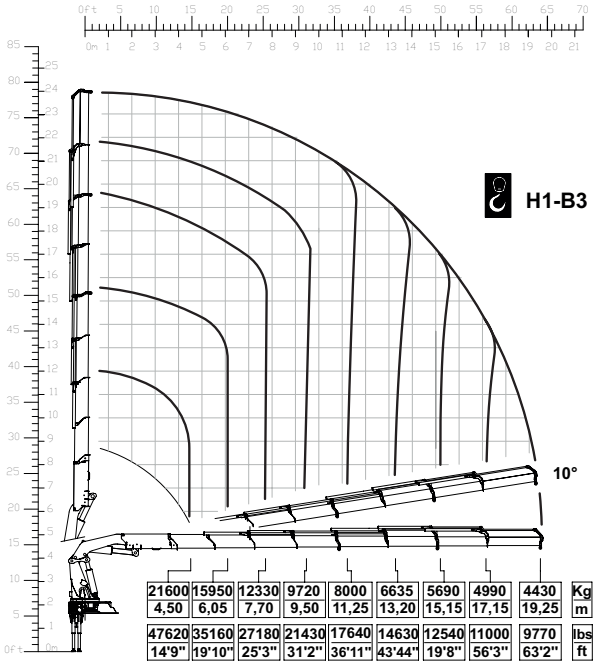
23540	17560	13660	11130	9370	Kg
4,35	5,90	7,55	9,30	11,10	m
51900	38700	30100	24550	20700	lbs
14’3”	19”4'	24”8'	30”5'	36”4'	ft

6 extensions



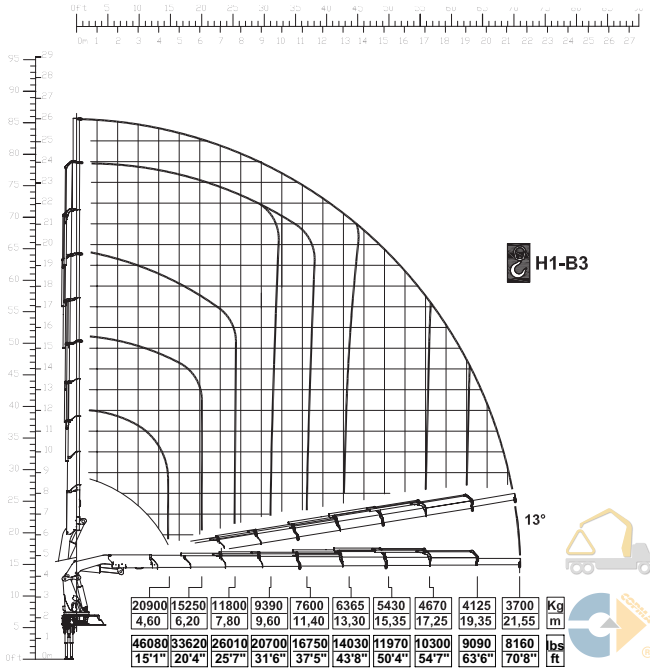
22650	16500	13000	10465	8720	7425	6450	Kg
4,45	6,00	7,65	9,40	11,20	13,10	15,10	m
49930	36380	28660	23070	19220	16370	14220	lb
14'7"	19'8"	25'1"	30'10"	36'9"	42'12"	49'6"	ft

8 extensions



21600	15950	12330	9720	8000	6635	5690	4990	4430	Kg
4,50	6,05	7,70	9,50	11,25	13,20	15,15	17,15	19,25	m
47620	35160	27180	21430	17640	14630	12540	11000	9770	lbs
14'9"	19'10"	25'3"	31'2"	36'11"	43'44"	19'8"	56'3"	63'2"	ft

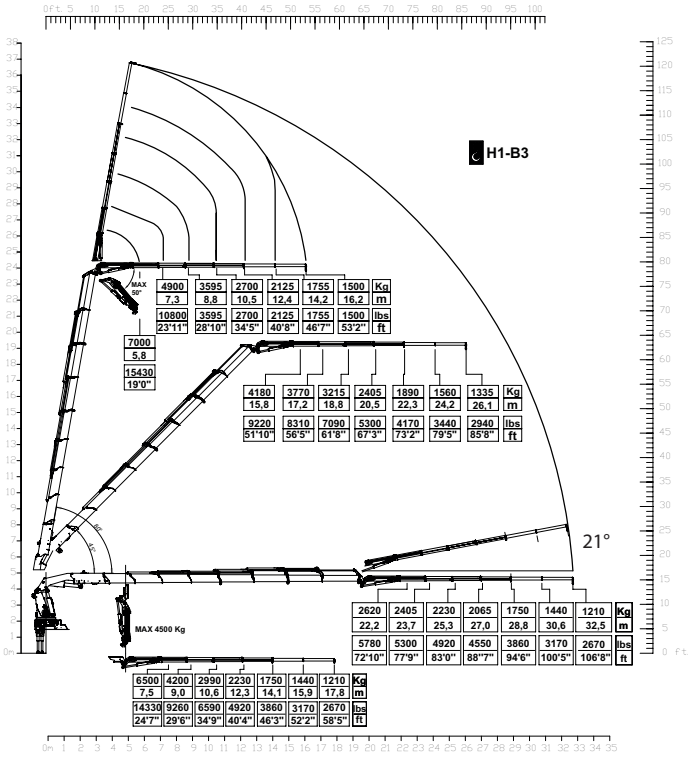
9 extensions



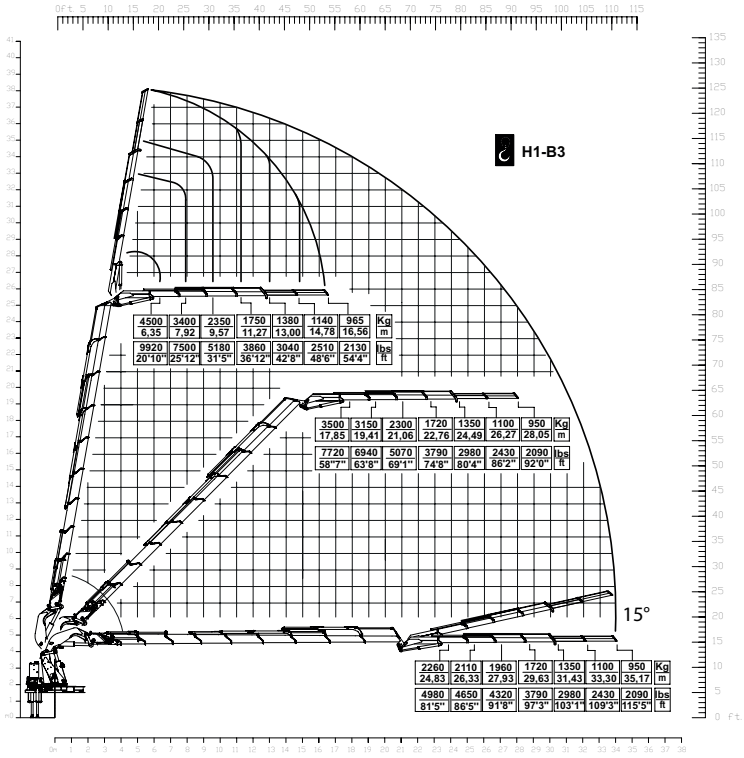
20900	15250	11800	9390	7600	6365	5430	4670	4125	3700	Kg
4,60	6,20	7,80	9,60	11,40	13,30	15,35	17,25	19,35	21,55	m
46080	33620	26010	20700	16750	14030	11970	10300	9090	8160	lbs
15'1"	20'4"	25'7"	31'6"	37'5"	43'8"	50'4"	54'7"	63'6"	70'8"	ft

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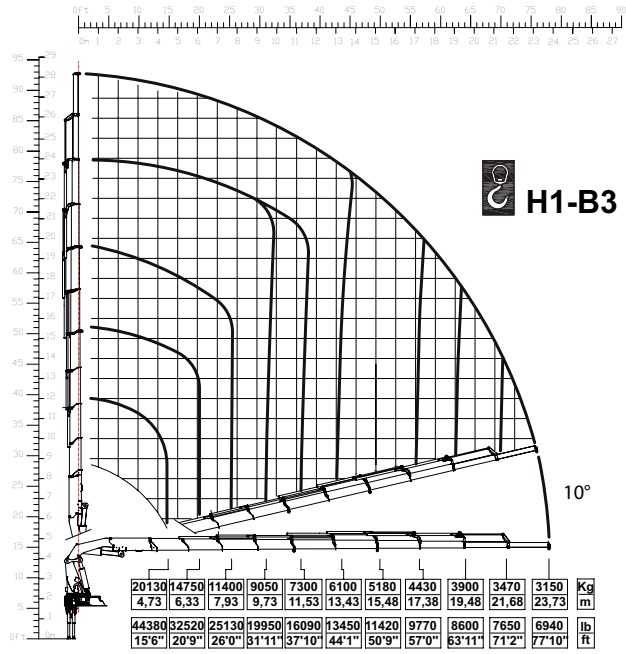
1400.8 + J6



1400.9 + J6



1400.10



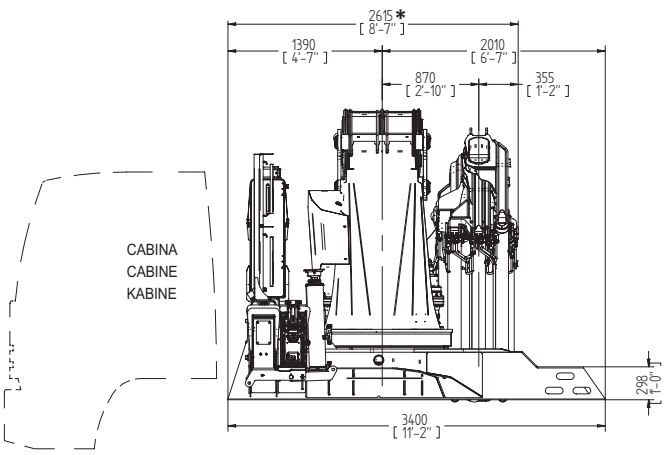
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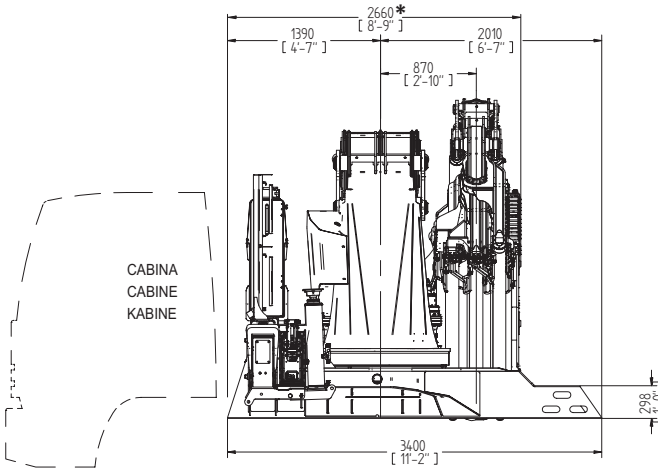
Crane Dimensions

back cabin left

* 1400.8J6 2780 mm 9'1" ft/inc with tracks
* 1400.9j6 2660 mm 8'9"ft/inc with hose rees (open center spools)

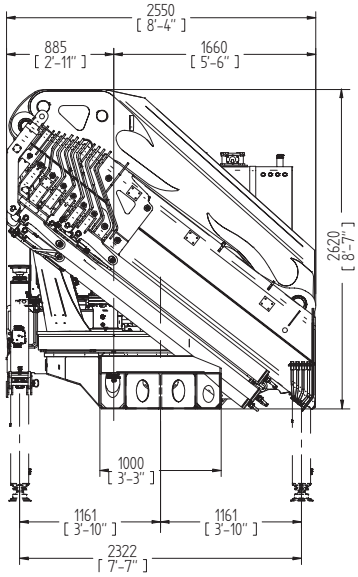
STD



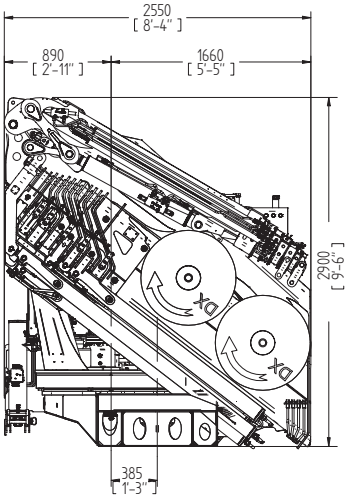


rear truck

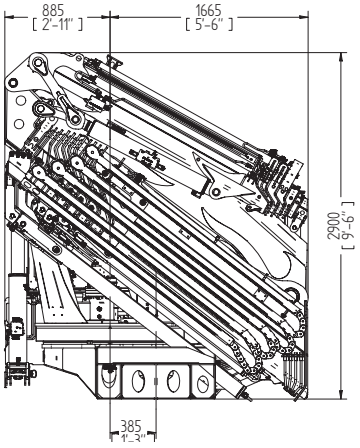
STD



1400.9j6 with with hose rees (open center spools)



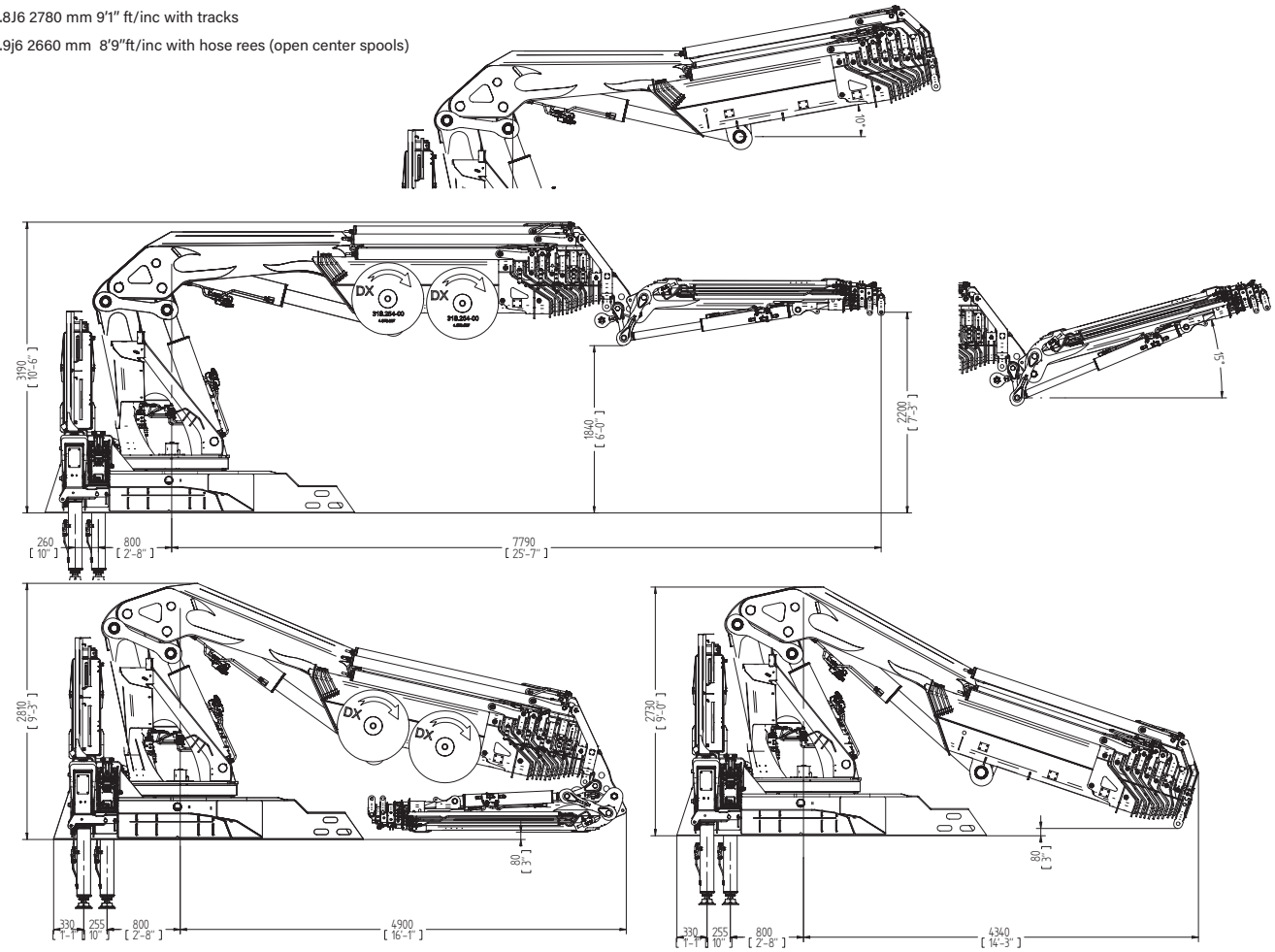
1400.8J6 with tracks (colosed center spools)



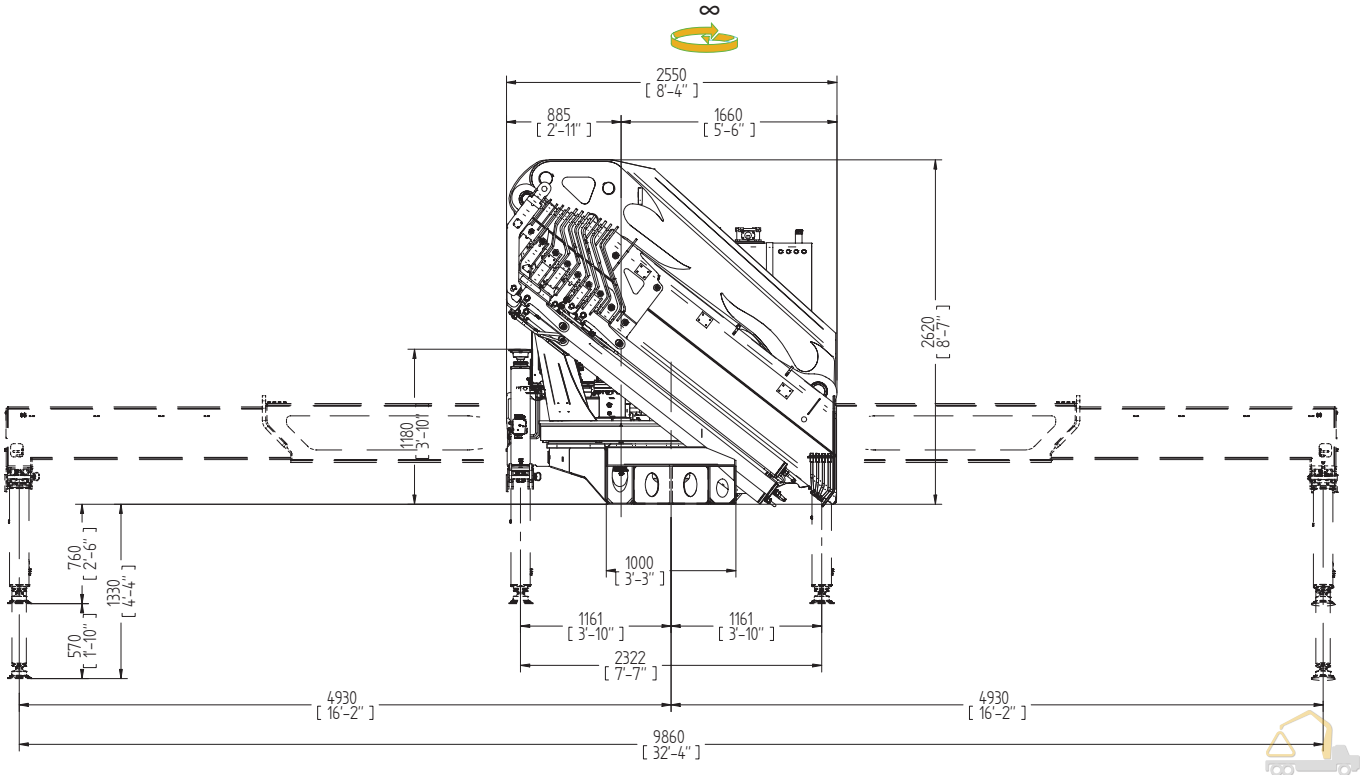
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operational

* 1400.8J6 2780 mm 9'1" ft/inc with tracks
* 1400.9j6 2660 mm 8'9"ft/inc with hose rees (open center spools)



extended outriggers



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

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1400 TOP RANGE

Technical Data

summarized data

	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
1400.4	1031	345	150	10280	∞	2550	2615	2620	9860
1400.6	1008	345	150	10940	∞	2550	2615	2620	9860
1400.8	947	345	150	11550	∞	2550	2615	2620	9860
1400.8J6	947	345	150	12630	∞	2550	2780	2900	9860
1400.9	945	345	150	11810	∞	2550	2615	2620	9860
1400.9J6	945	345	150	12890	∞	2550	2660	2900	9860
1400.10	934	345	150	12030	∞	2550	2615	2620	9860

	lbs	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
1400.4	745939	5003	39	22663	∞	8′4″	8′7″	8′7″	32′4″
1400.6	729014	5003	39	24118	∞	8′4″	8′7″	8′7″	32′4″
1400.8	684965	5003	39	25463	∞	8′4″	8′7″	8′7″	32′4″
1400.8J6	684965	5003	39	27844	∞	8′4″	9′1″	9′6″	32′4″
1400.9	683519	5003	39	26036	∞	8′4″	8′7″	8′7″	32′4″
1400.9J6	683519	5003	39	28417	∞	8′4″	8′9″	9′6″	32′4″
1400.10	675569	5003	39	26521	∞	8′4″	8′7″	9′6″	32′4″

technical data

Max. lifting moment	1031 kNm	745939 ft.lbs
Max. hydraulic outreach	23,73 m	77′10″
Slewing angle	∞	∞
Slewing torque	10000 daNm	72330 ft.lbs
Stabilizer spread	9,86 m	32′4″
Fitting space required (min./max)	3.6 m	11′10″
Width folded	2,70 m	8′9″
Max. operating pressure	345 bar	5003 psi
Recommended pump capacity	150 l/min	39 US gal./min
Dead weight (vers. 4)	10280 kg	22660 lbs

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GET READY TO A BETTER LIFTING EXPERIENCE

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COPMA 1400



knuckle
boom
cranes

Powerful Synergies

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