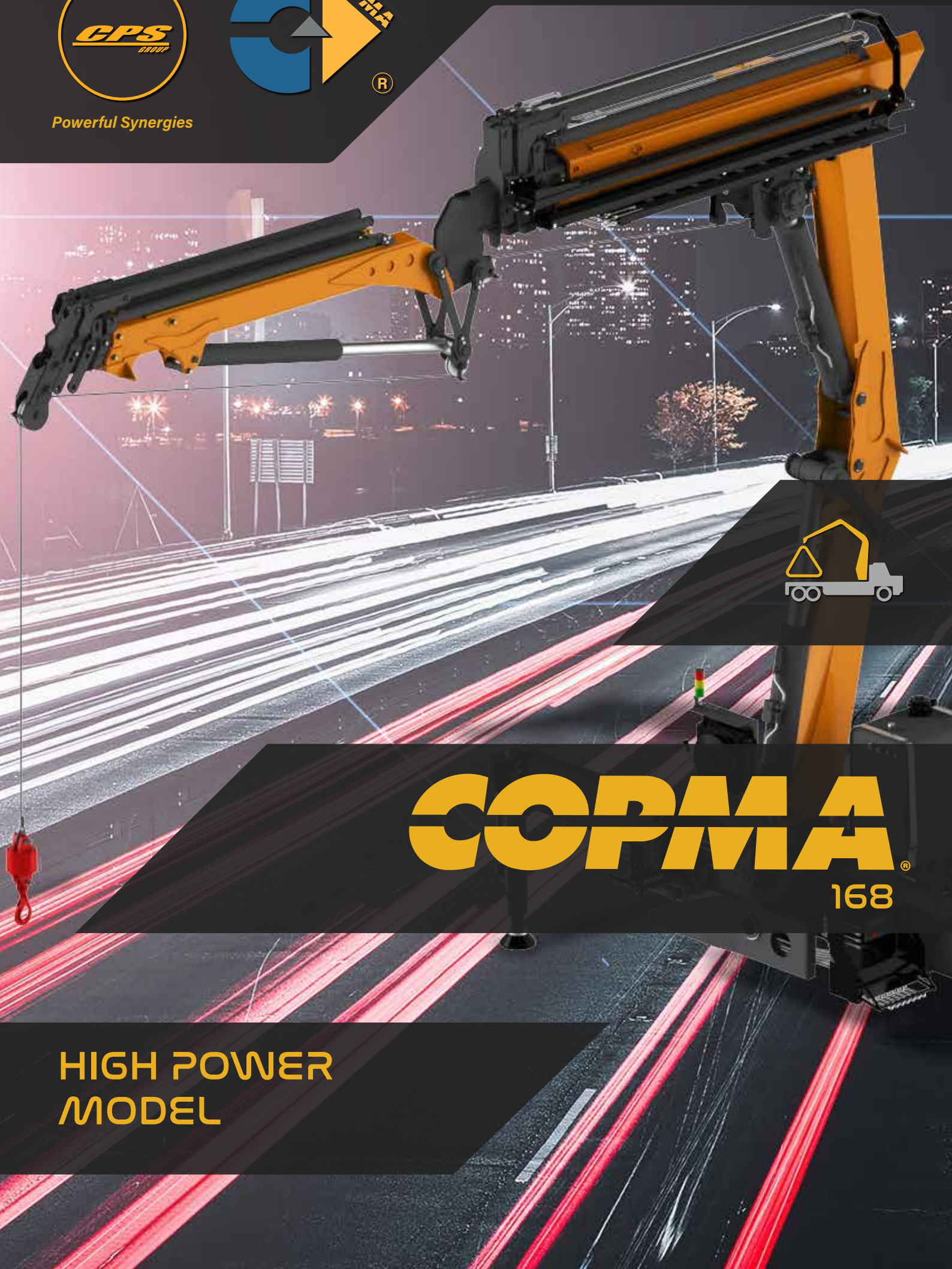
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Powerful Synergies



COPMA® 168

HIGH POWER MODEL

COPMA 168

Performance & Power

168 HAS THE HIGHEST LIFTING RANGE AND TOP POWER-WEIGHT RATIO COMBINING ADVANCED TECHNOLOGY FEATURES FOR MORE PERFORMANCE.

- **HIGH POWER model, load category - 16 Ton/Mt**
- **Designed for every kind of job**
- **Strong linkage system on each arm to get maximum performance**
- **Precise and fast work execution**
- **High safety standards**

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THE MOST POWERFUL CRANE FOR THE TOUGHEST MARKETS

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COPMA 168

More Safety & Security

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

- **Performing and reliable electronic devices**
- **Column with high mechanical characteristics**
- **High Degree of User Friendliness**
- **Ready to work in a few movements**
- **Excellent weight/performance ratio**

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DESIGNED FOR FLEXIBLE SERVICES

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COPMA 168
Technical Features

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

Standard features

- control



- structure



optional features

- easy use



- control



* CE version

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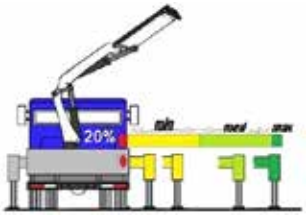
Transport Alert Device

Sensors on the basement controls 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.



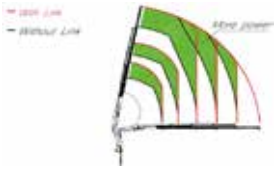
Truck Electronic Stability 3.0

Active stability control for performance optimization according to the type of stabilization (3) to guarantee maximum safety in all working conditions. Mandatory in the CE market, it helps a better vehicle-crane configuration.



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.

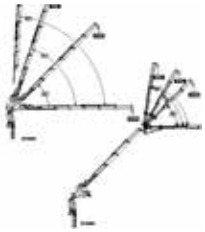


Crane Monitoring System 3.0

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.

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.



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.

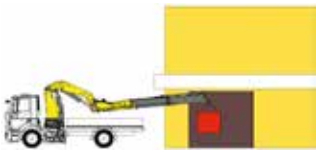


Negative Boom System

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.







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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.



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.



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.



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.



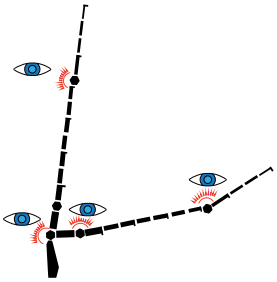
Radio Remote Control 3.0

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



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.



COPMA ® Remote Connectivity 4.0

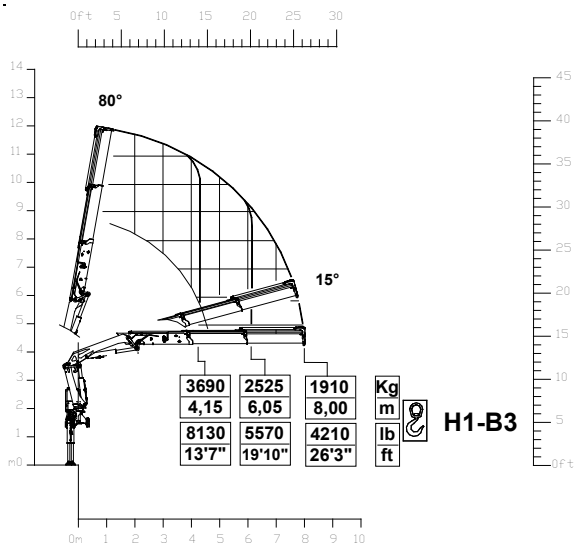
COPMA® Remote Connectivity 4.0 to the crane.
Two-way communication by GPRS for real-time diagnosis and remote real-time parameter setting and/or adjustment.

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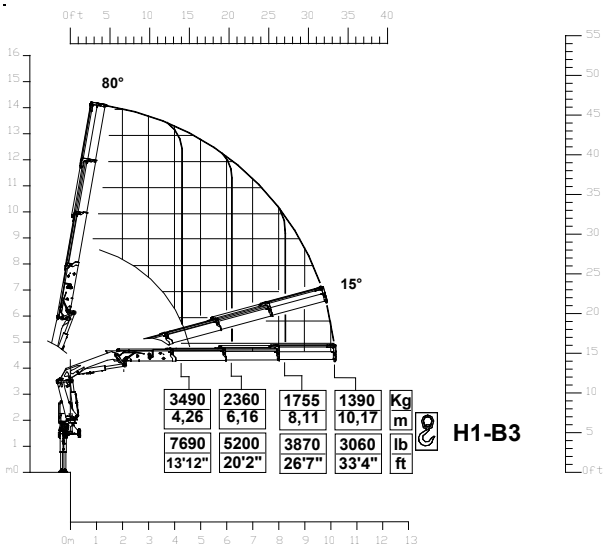
168 HIGH POWER

Load Charts

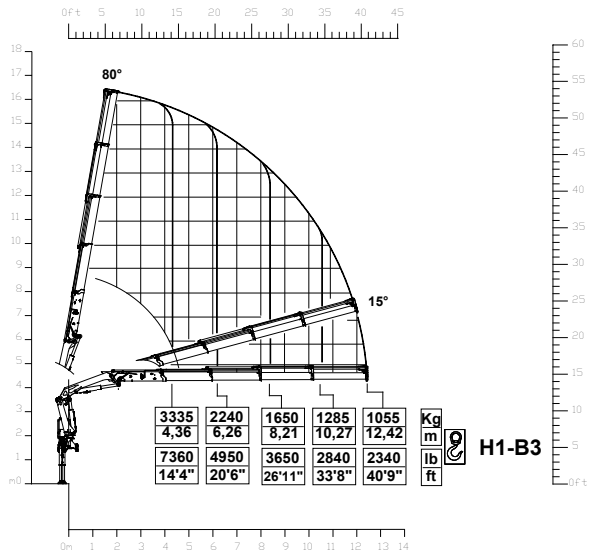
2 extensions



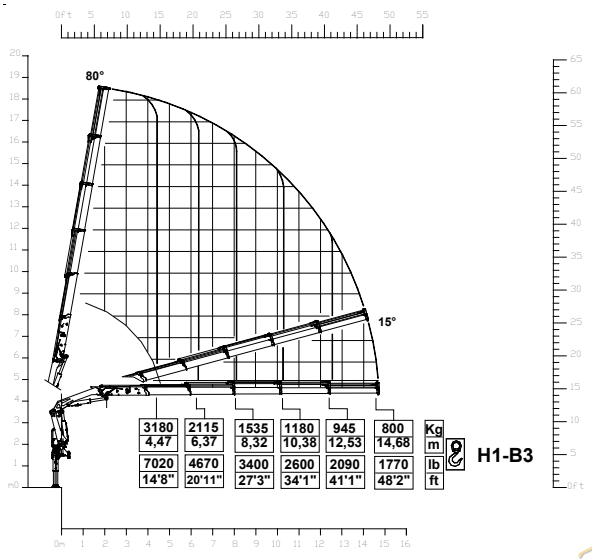
3 extensions



4 extensions

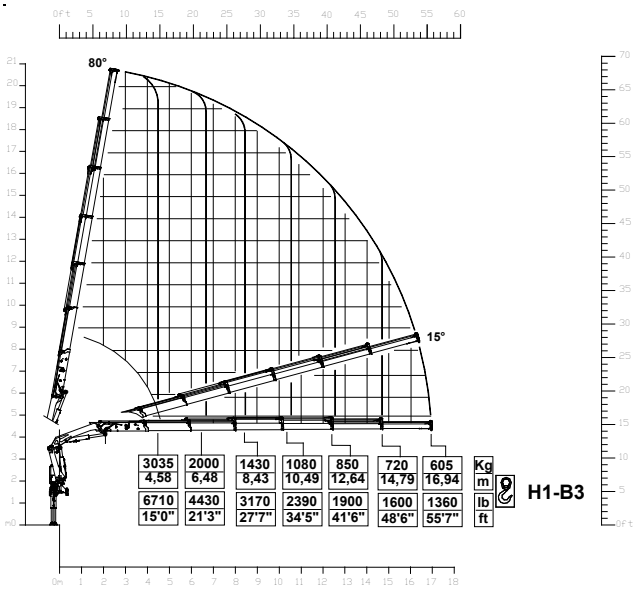


5 extensions

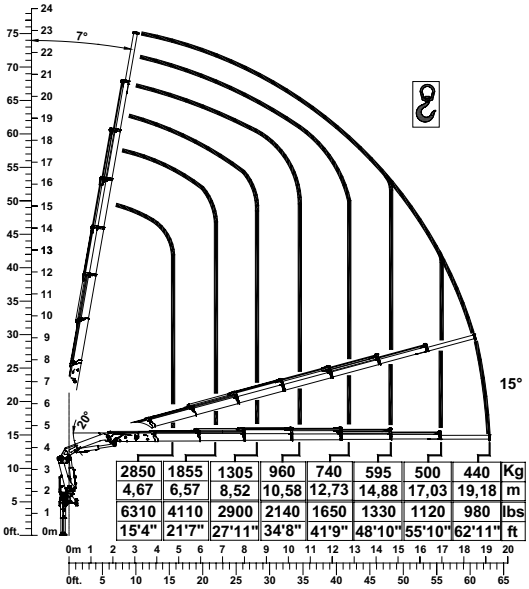


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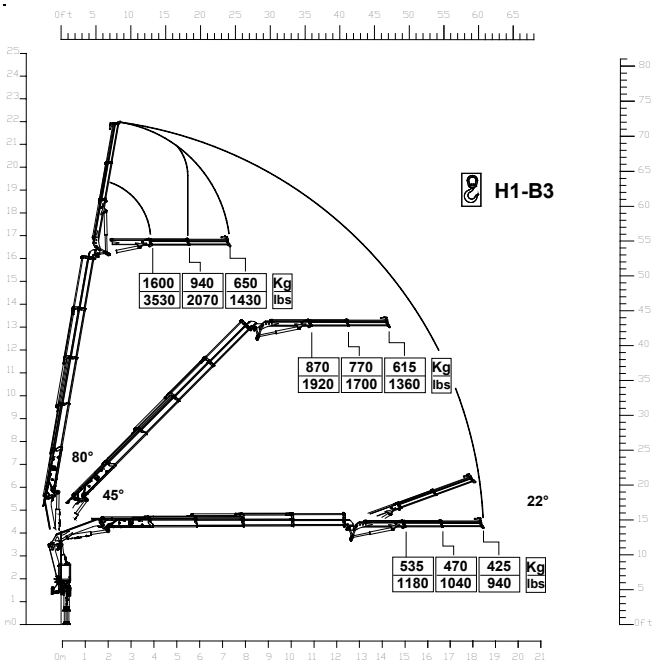
6 extensions



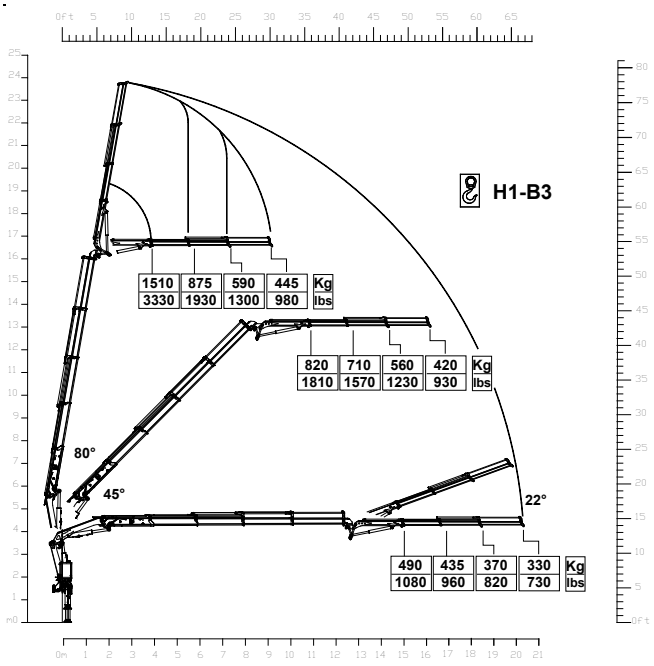
7 extensions



168.4J2



168.4J3

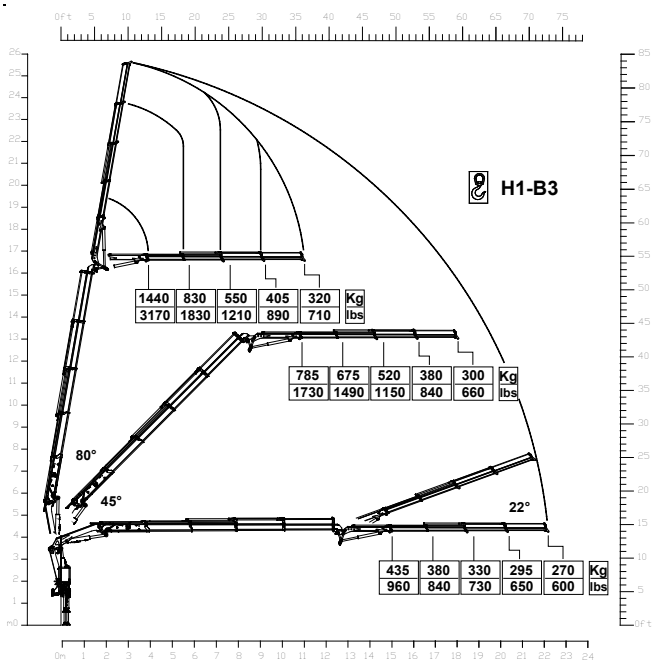


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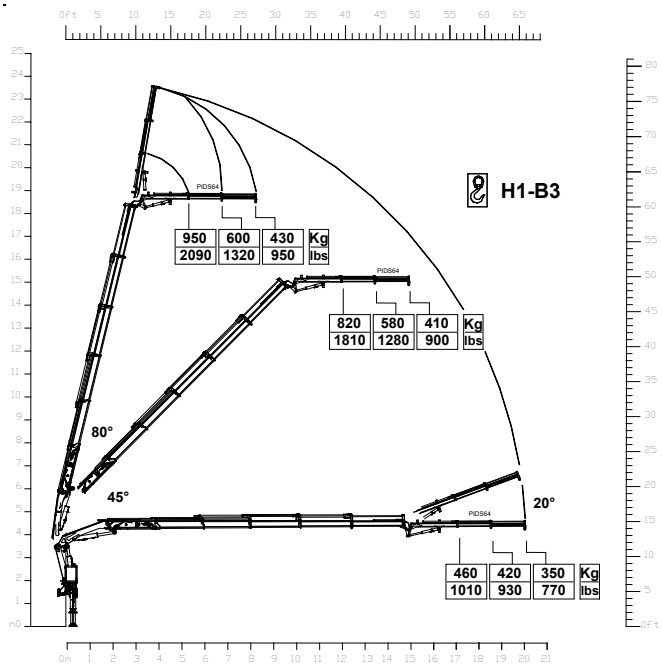


SUPERIOR RELIABILITY FOR EVERY OPERATOR

168.4J4



168.5J2

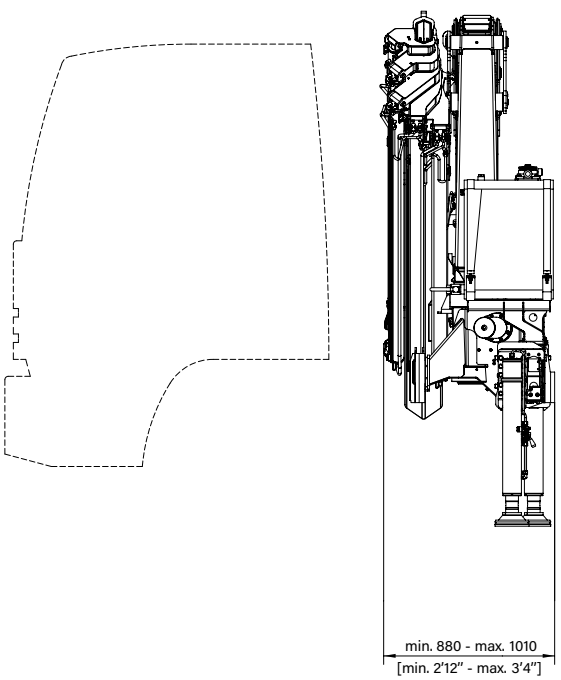


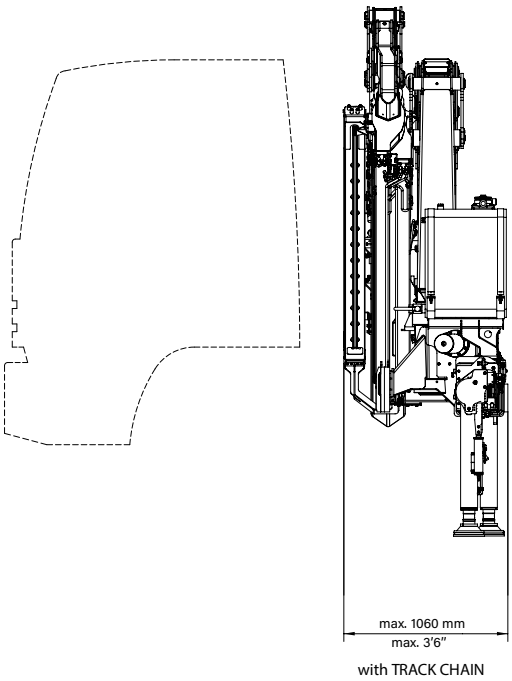
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168 HIGH POWER

Crane Dimensions

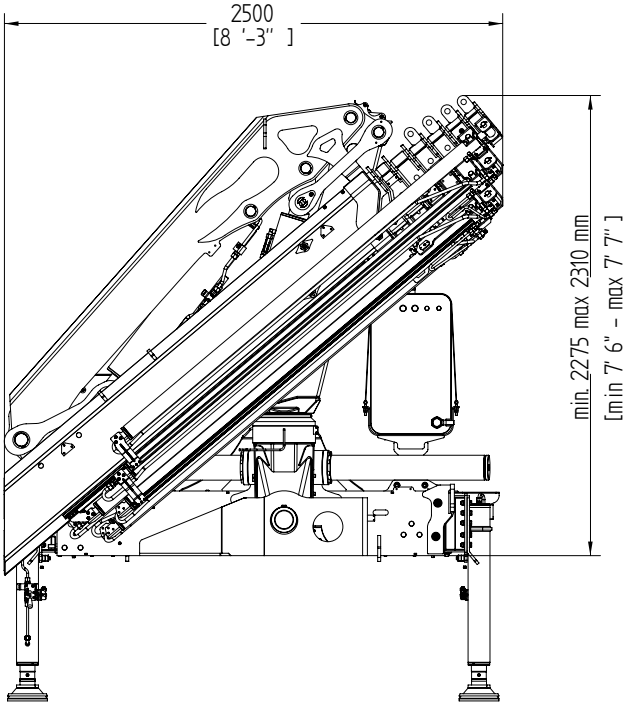
back cabin left

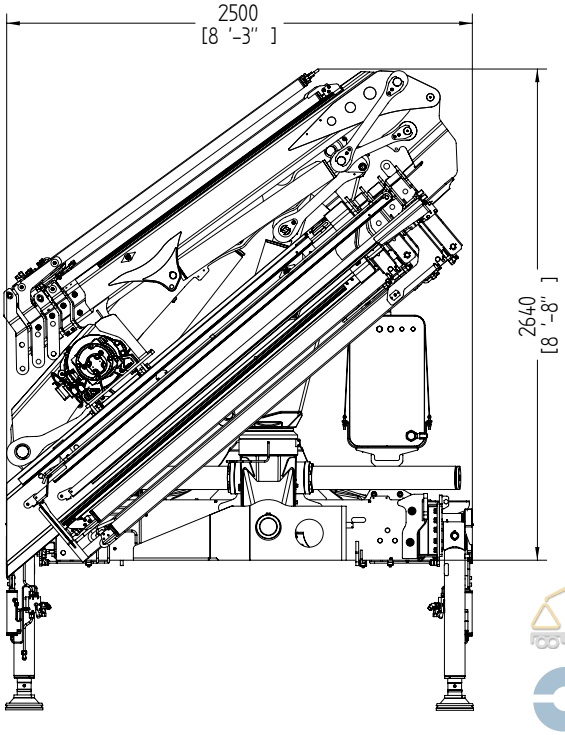




with TRACK CHAIN

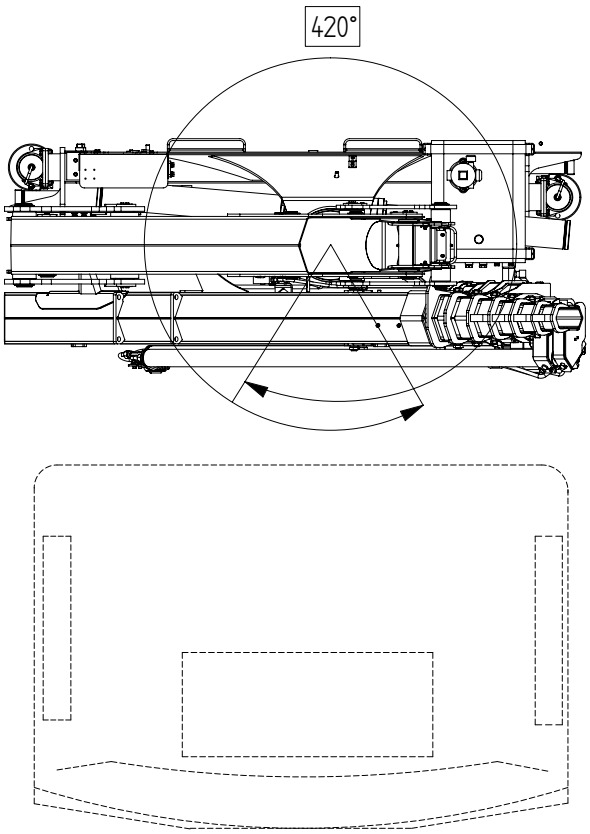
rear truck



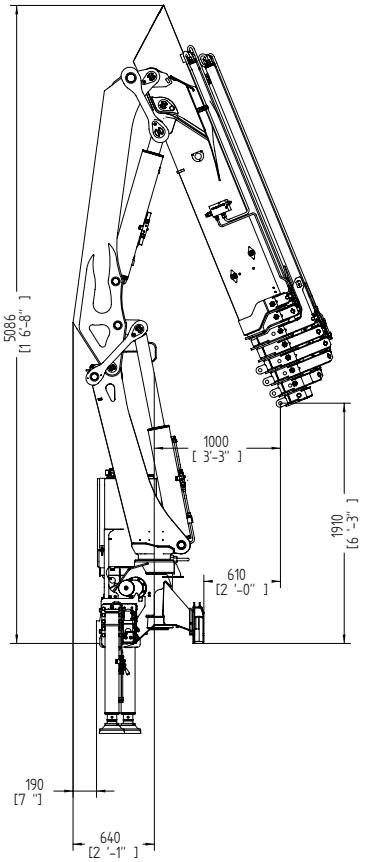


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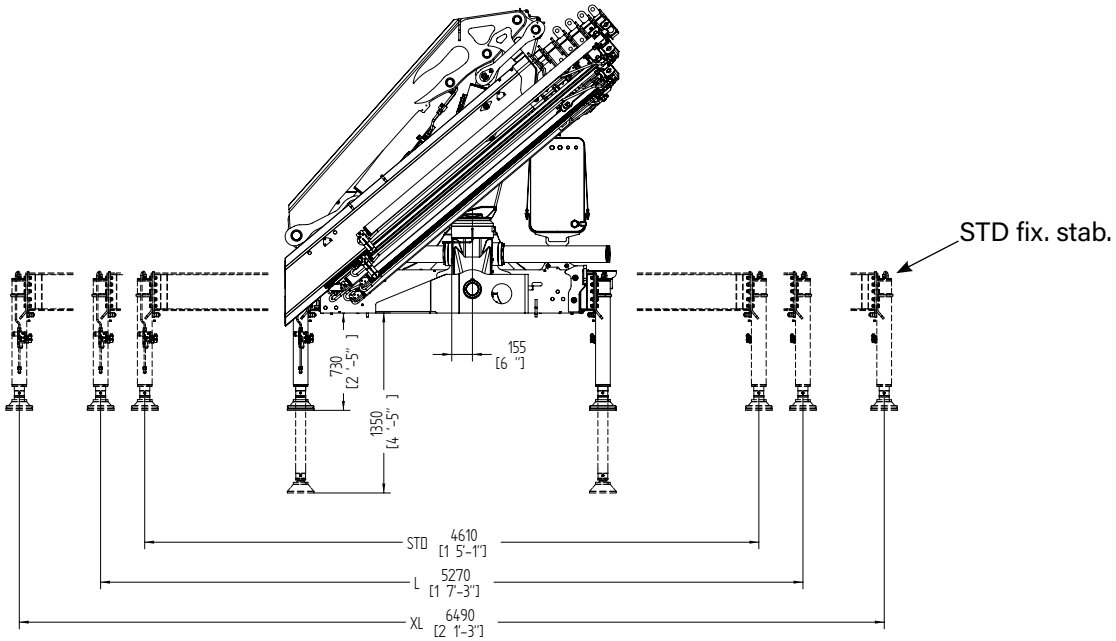
top cabin



operational



extended outriggers



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

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168 HIGH POWER

Technical Data

summarized data

	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
168.2	150	300	40	1935	420	2500	880	2275	4600/5270/6500
168.3	146	300	40	2055	420	2500	880	2275	4600/5270/6500
168.4	143	300	40	2170	420	2500	915	2275	4600/5270/6500
168.4J2	143	300	40	2525	420	2500	1060	2640	4600/5270/6500
168.4j3	143	300	40	2590	420	2500	1060	2640	4600/5270/6500
168.4j4	143	300	40	2630	420	2500	1060	2640	4600/5270/6500
168.5	139,4	300	40	2280	420	2500	980	2275	4600/5270/6500
168.5J2	139,4	300	40	2530	420	2500	1060	2550	4600/5270/6500
168.6	136.4	300	40	2380	420	2500	1010	2275	4600/5270/6500
168.7	130.6	300	40	2470	420	2500	1010	2310	4600/5270/6500

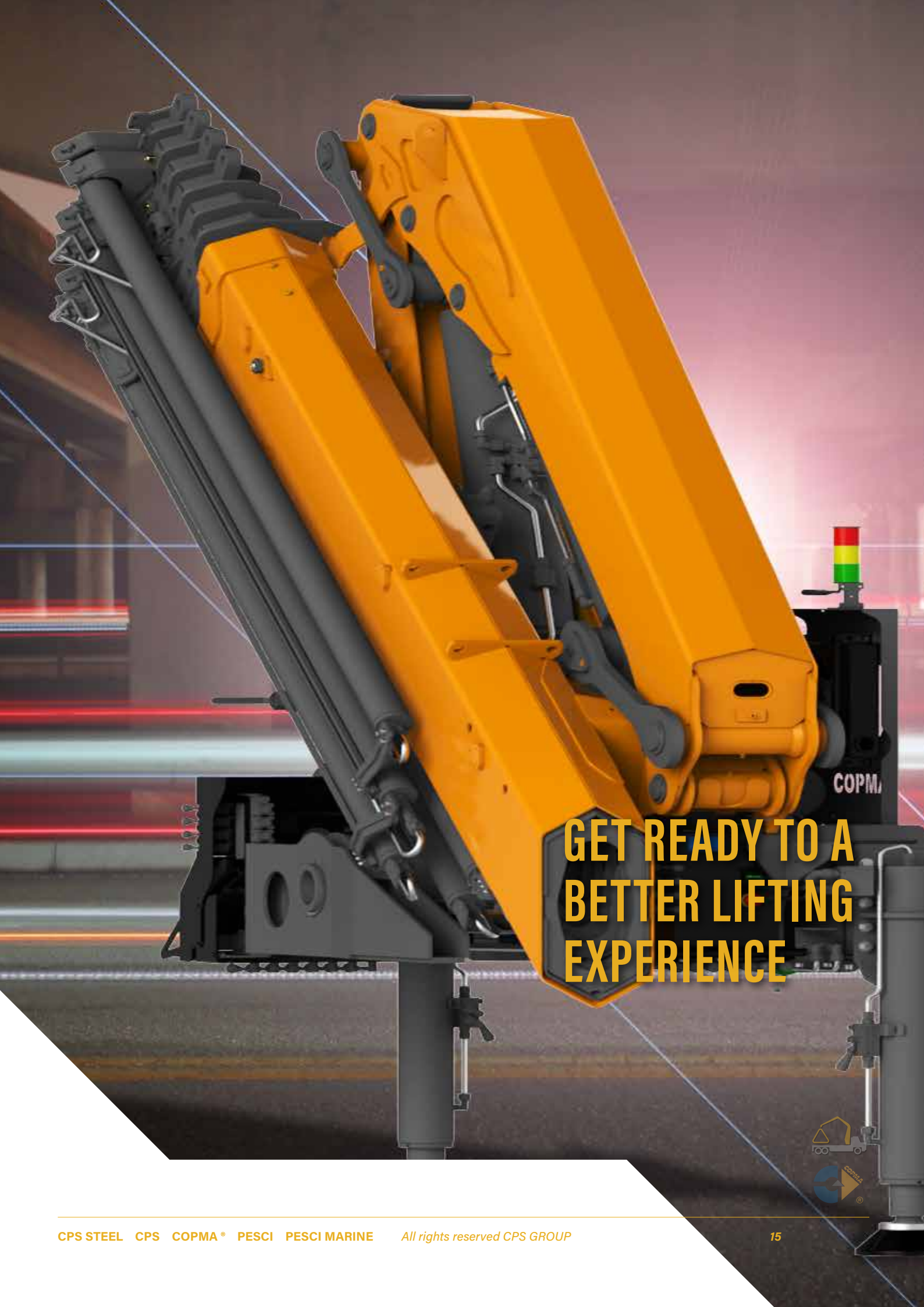
	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
168.2	110596	4351	10,57	3968	420	8'2"	2'12"	7'6"	15'1"-17'3"-21'3"
168.3	107426	4351	10,57	4530	420	8'2"	2'12"	7'6"	15'1"-17'3"-21'3"
168.4	105214	4351	10,57	4784	420	8'2"	3'	7'6"	15'1"-17'3"-21'3"
168.4J2	105214	4351	10,57	5570	420	8'2"	3'6"	8'8"	15'1"-17'3"-21'3"
168.4j3	105214	4351	10,57	5710	420	8'2"	3'6"	8'8"	15'1"-17'3"-21'3"
168.4j4	105214	4351	10,57	5800	420	8'2"	3'6"	8'8"	15'1"-17'3"-21'3"
168.5	102816	4351	10,57	5300	420	8'2"	3'3"	7'6"	15'1"-17'3"-21'3"
168.5J2	102816	4351	10,57	5580	420	8'2"	3'6"	8'4"	15'1"-17'3"-21'3"
168.6	100569	4351	10,57	5247	420	8'2"	3'5"	7'6"	15'1"-17'3"-21'3"
168.7	96292	4351	10,57	5445	420	8'2"	3'5"	7'7"	15'1"-17'3"-21'3"

technical data

Max. lifting moment	150 kNm	110596 ft.lbs
Max. hydraulic outreach	19.32 m	63'39"
Slewing angle	420°	420°
Slewing torque	2200 daNm	16220.8 ft.lbs
Stabilizer spread	4.60/5.27/6.5 mt	15'1"/ 17'3" 21'3"
Fitting space required (min./max)	0.88 m/1.01 m	2'12"/3'4"
Width folded	2,50 m	8'2"
Max. operating pressure	300 bar	4641 psi
Recommended pump capacity	40 l/min	10.57 US gal./min
Dead weight (vers .2)	1935 kg	4266 lbs

* Note:
Technical features are not binding.
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GET READY TO A BETTER LIFTING EXPERIENCE

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COPMA 168



knuckle boom cranes

Powerful Synergies

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