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Powerful Synergies



COPMA 178

ESSENTIAL MODEL

COPMA 178

Performance & Power

178 IS INNOVATIVE ENGINEERING FOR TOP PRECISION, EFFICIENCY, SPEED AND PERFORMANCE. AN ESSENTIAL MASTERPIECE IN LIFTING TECHNOLOGY.

- **ESSENTIAL model, load category - 17 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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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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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 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.



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.



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.



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.





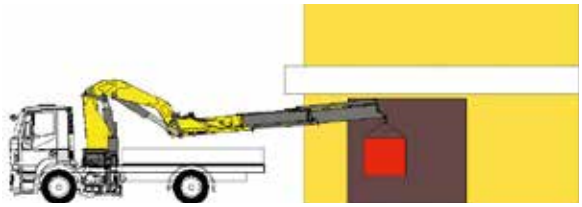
Truck Electronic Stability 1.0

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.



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 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.



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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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.

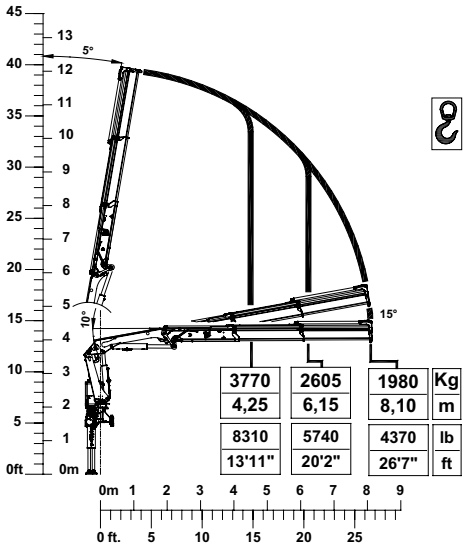




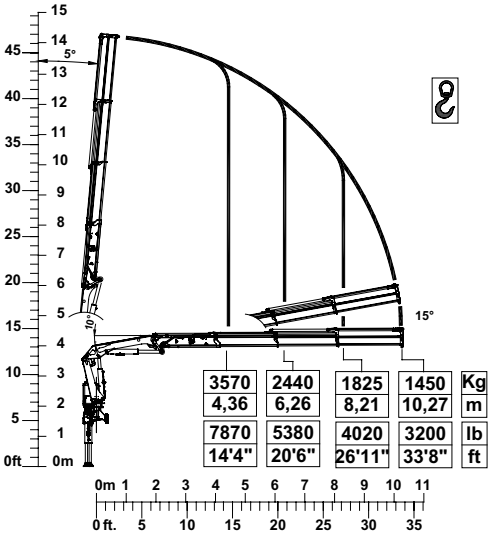
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Load Charts

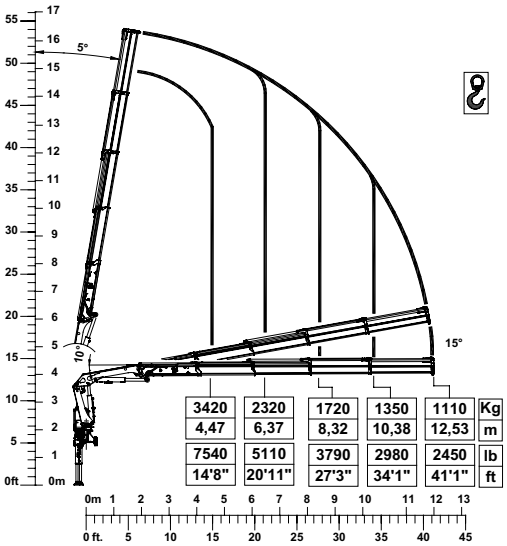
2 extensions



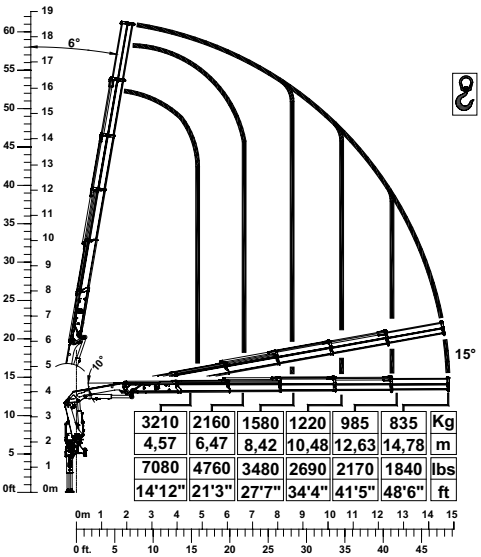
3 extensions



4 extensions



5 extensions

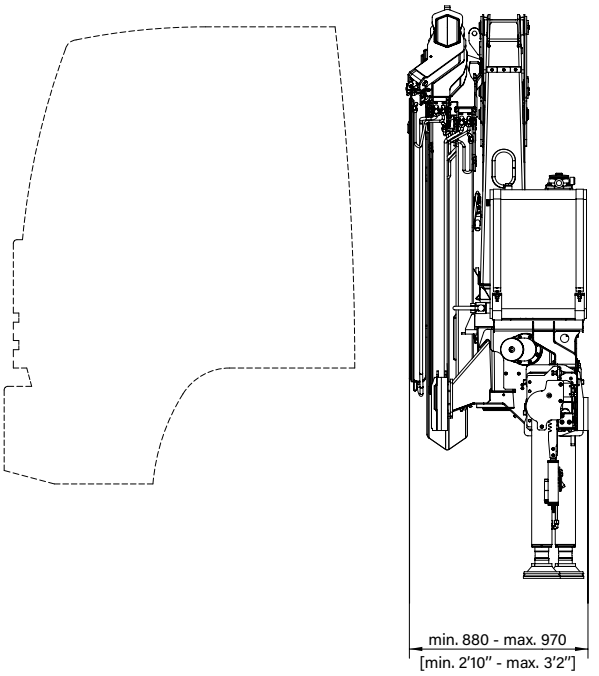


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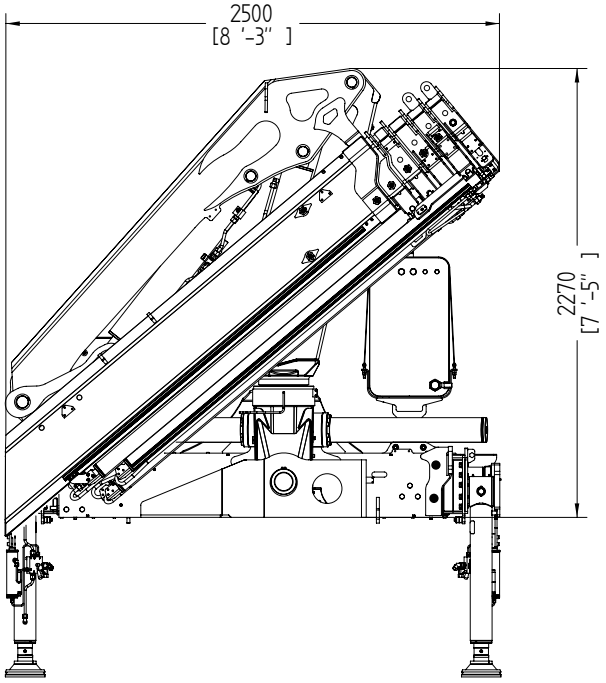
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Crane Dimensions

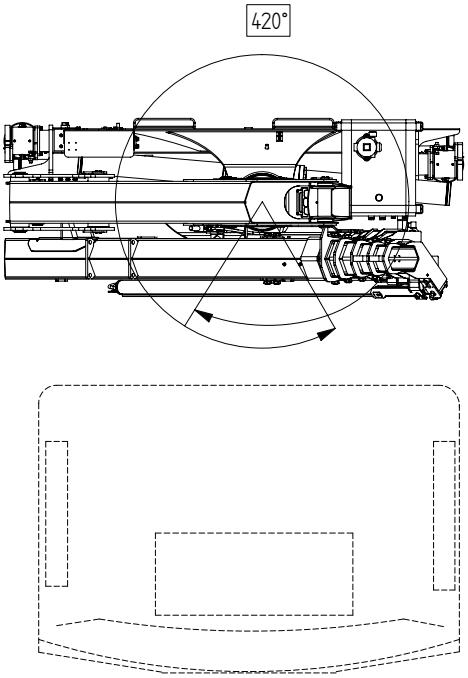
back cabin left



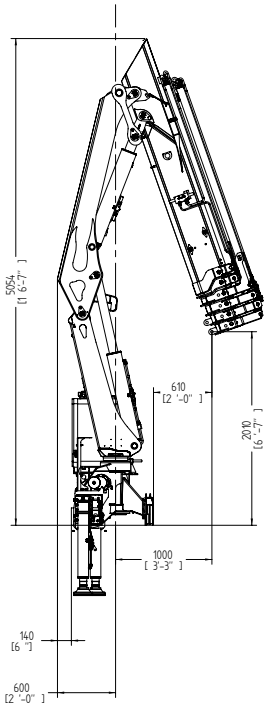
rear truck



top cabin

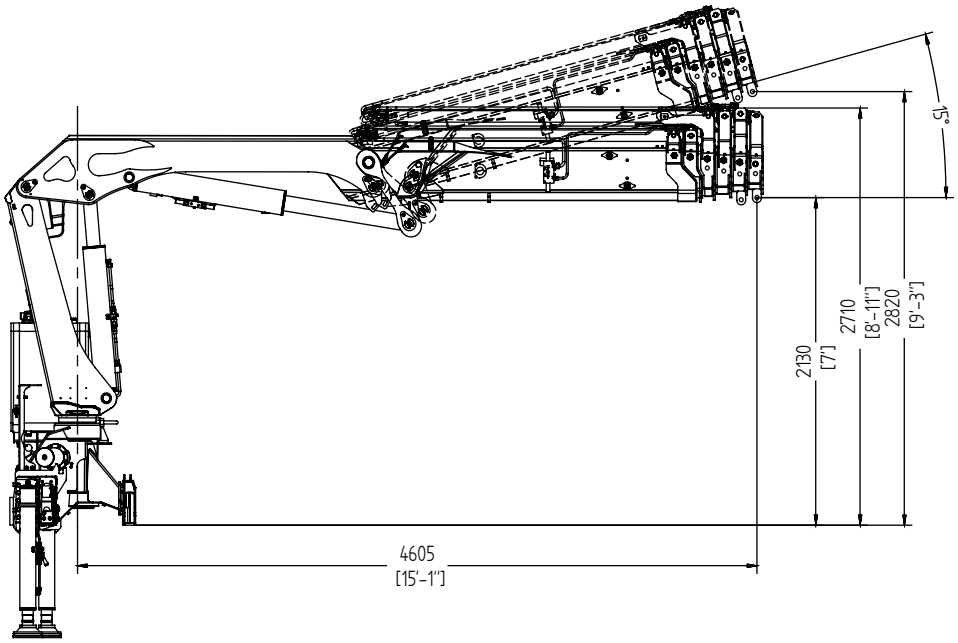


operational

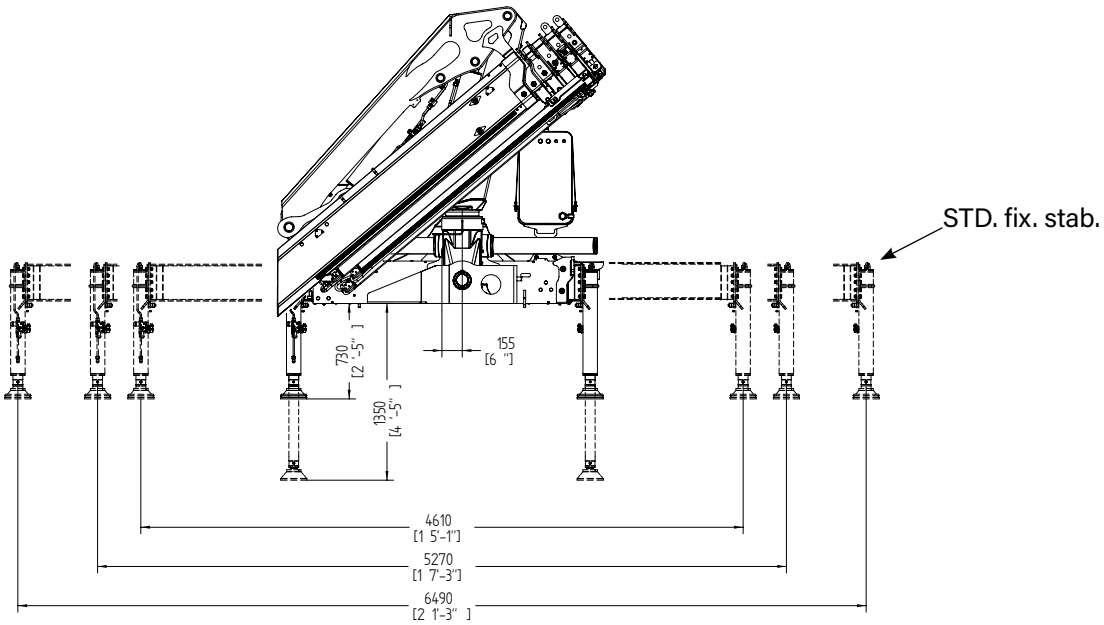


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operational



extended outriggers



* Note:
Technical features are not binding.
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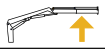
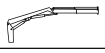
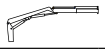
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Technical Data

summarized data

									
	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
178.2	157.3	310	35	1880	420	2500	880	2270	4600/5270/6500
178.3	152.9	310	35	2000	420	2500	880	2270	4600/5270/6500
178.4	150	315	35	2110	420	2500	910	2270	4600/5270/6500
178.5	143,9	305	35	2215	420	2500	970	2270	4600/5270/6500

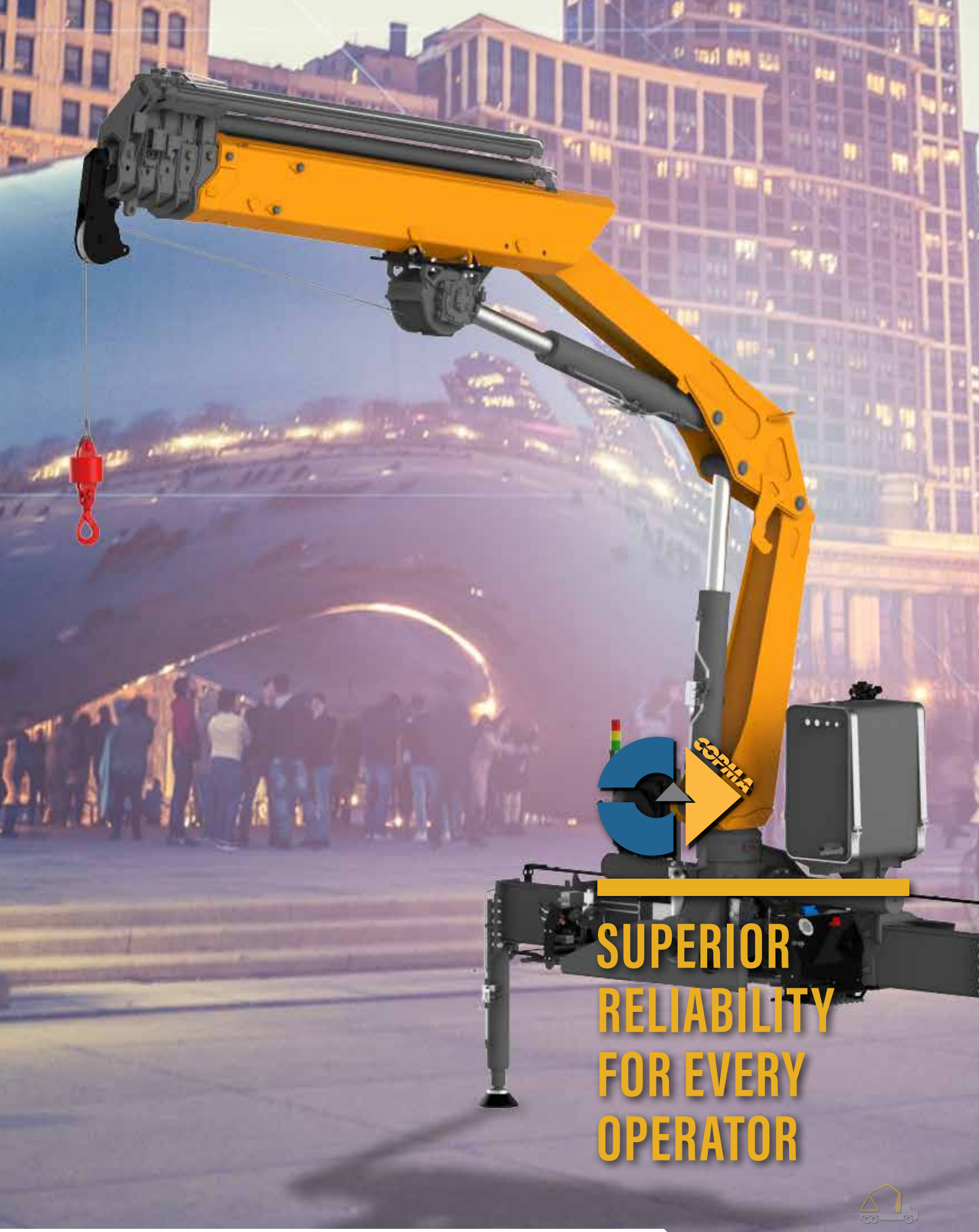
									
	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
178.2	115978	4495	9,25	4144	420	8’2”	2’10”	7’5”	15’1”-17’3”-21’3”
178.3	112734	4495	9,25	4409	420	8’2”	2’10”	7’5”	15’1”-17’3”-21’3”
178.4	110596	4568	9,25	4651	420	8’2”	3’	7’5”	15’1”-17’3”-21’3”
178.5	106209	4423	9,25	4883	420	8’2”	3’2”	7’5”	15’1”-17’3”-21’3”

technical data

Max. lifting moment	157.3 kNm	115978 ft.lbs
Max. hydraulic outreach	14.85 m	48’72”
Slewing angle	420°	420°
Slewing torque	2200 daNm	16220 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/0.97 m	2’10”/3’2”
Width folded	2,50 m	8’2”
Max. operating pressure	310 bar	4495 psi
Recommended pump capacity	35 l/min	9,25 US gal./min
Dead weight (vers .2)	1880 kg	4144 lbs

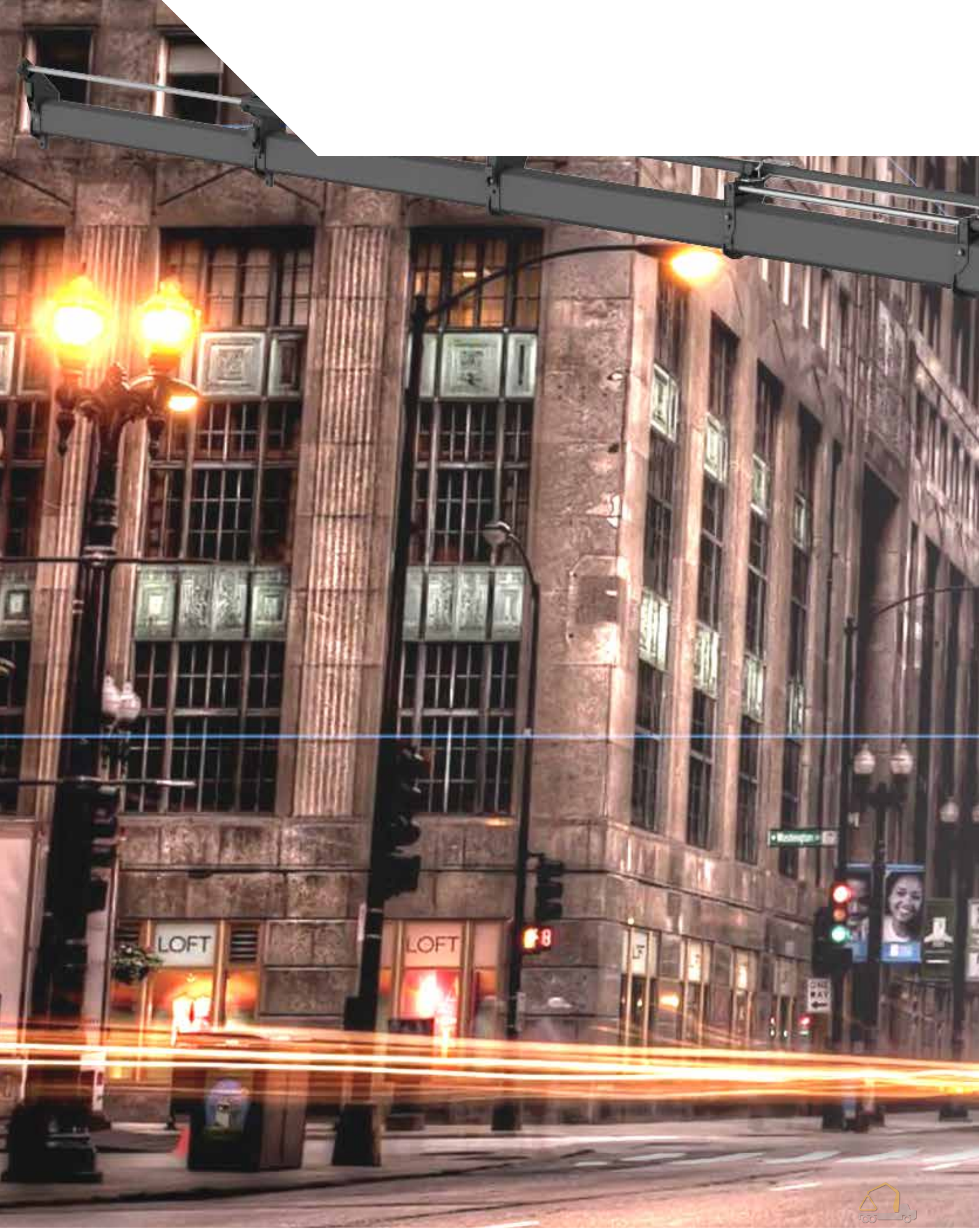
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SUPERIOR RELIABILITY FOR EVERY OPERATOR

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knuckle boom cranes

Powerful Synergies

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