



Powerful Synergies



# COPMA<sup>®</sup> 228

## HIGH POWER MODEL

# COPMA 228

Performance & Power

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

- **HIGH POWER model, load category - 20 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**





**THE MOST  
POWERFUL  
CRANE FOR  
THE TOUGHEST  
MARKETS**



# COPMA 228

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**





**DESIGNED  
FOR FLEXIBLE  
SERVICES**



# COPMA 228

## Technical Features

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

### Standard features

- easy use



- control



- structure



### optional features

- easy use



- control



\* CE version

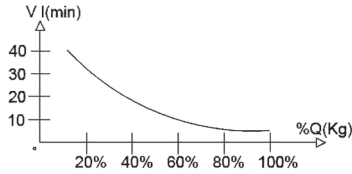
\*\* Only for CE version





### 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.



### 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.



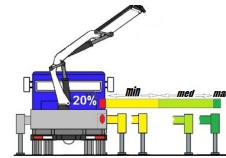
### Crane Monitoring System 2.0

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.



### 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.



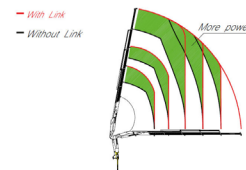
### Negative Control System

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.



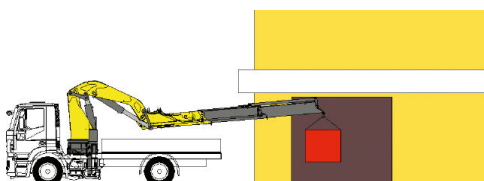
### Constant Control Link

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.



### 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 Rack Pinion

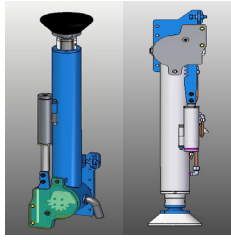
The rotation system with rack and pinion is the best optimal solution for the most performative lifting capacity, it reduce the weights and crane dimension for the most compact configuration.





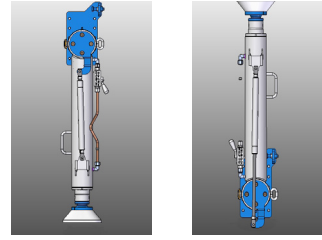
## Hydraulic Lifting Stabilizers 2.0

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.



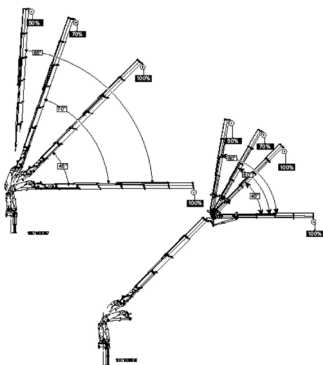
## Radio Remote Control 3.0

Radio remote 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 optimizes the load control and makes every movement easier and safer.



## 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.

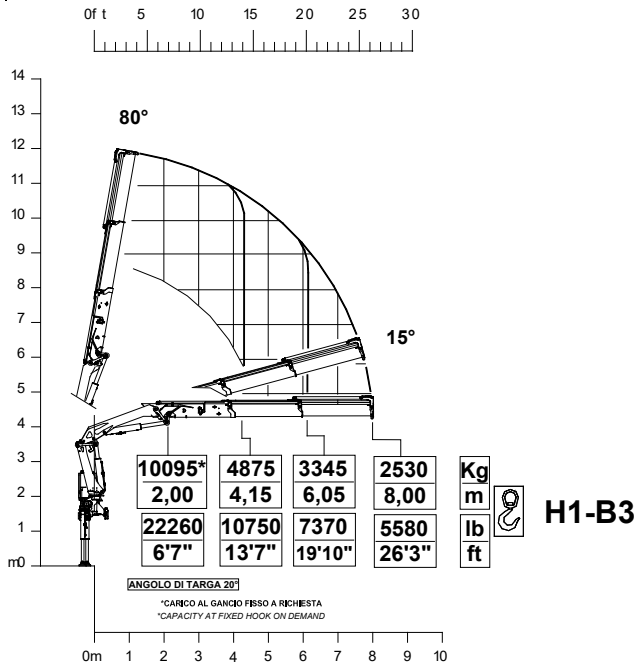




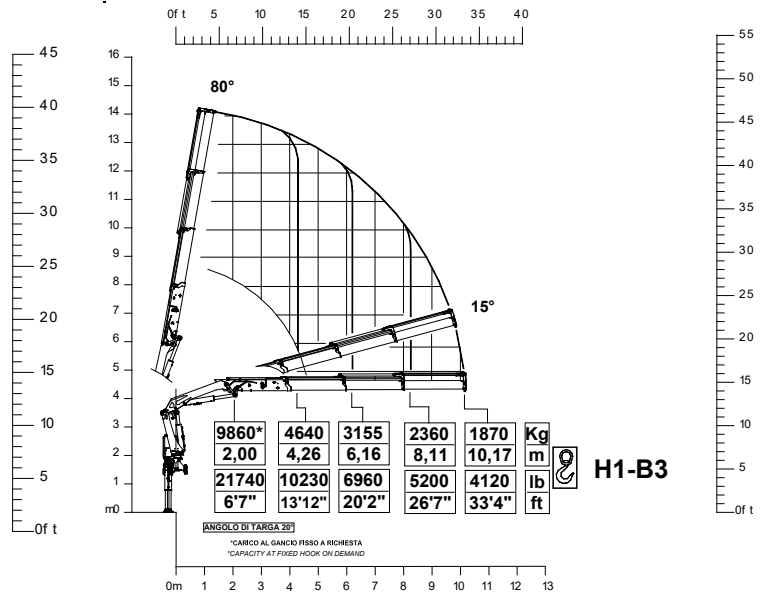
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## Load Charts

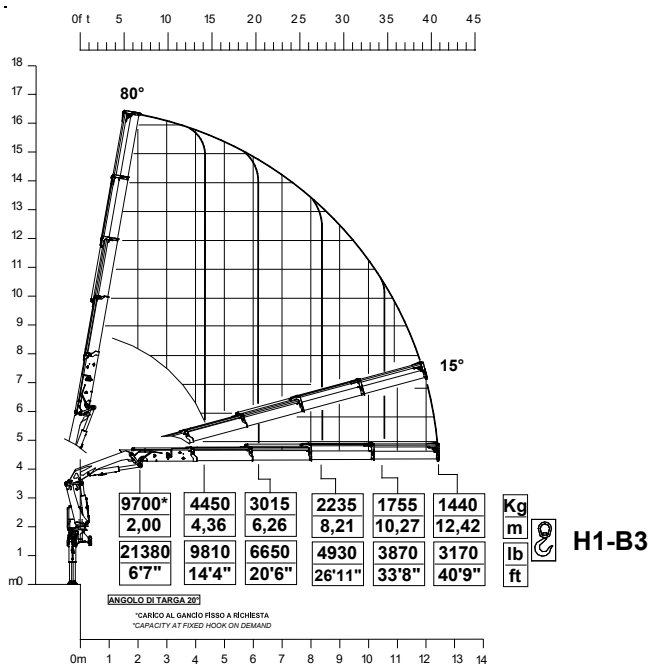
### 2 extensions



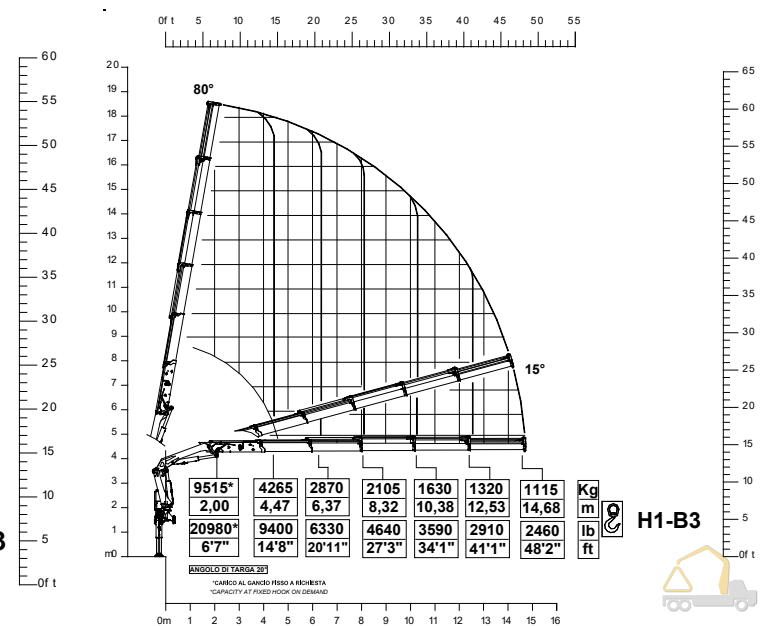
### 3 extensions



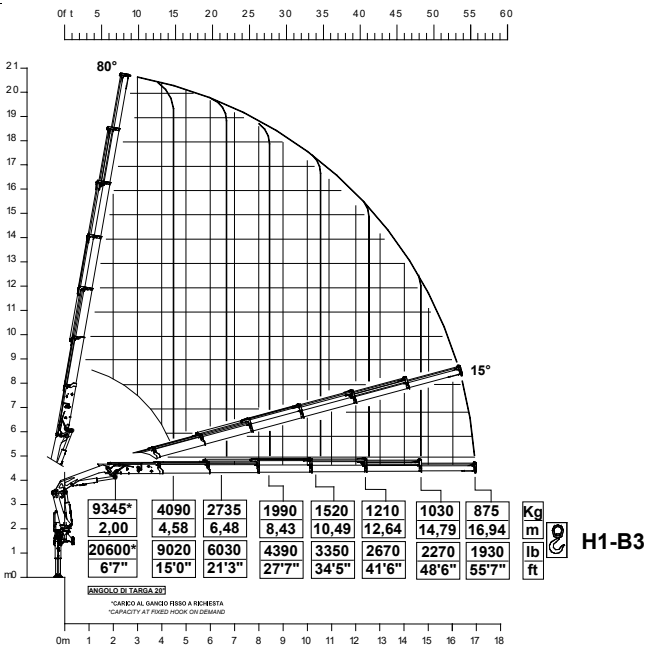
### 4 extensions



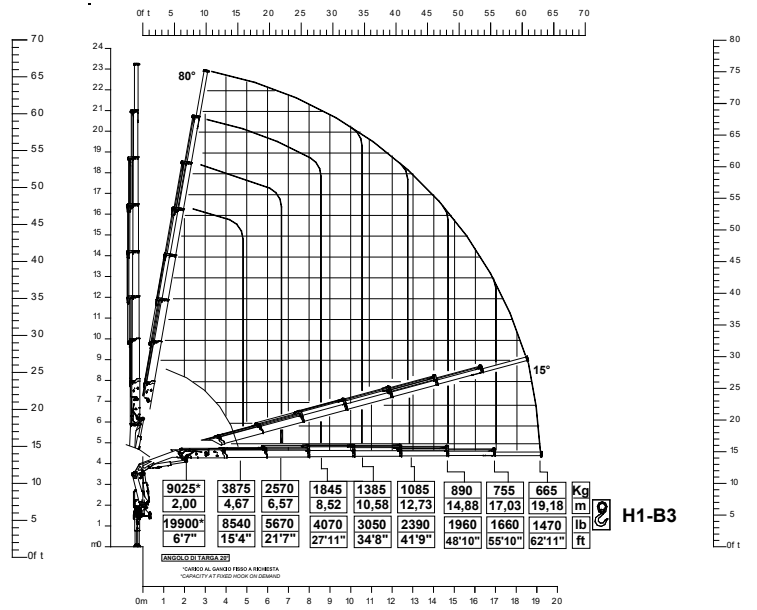
### 5 extensions



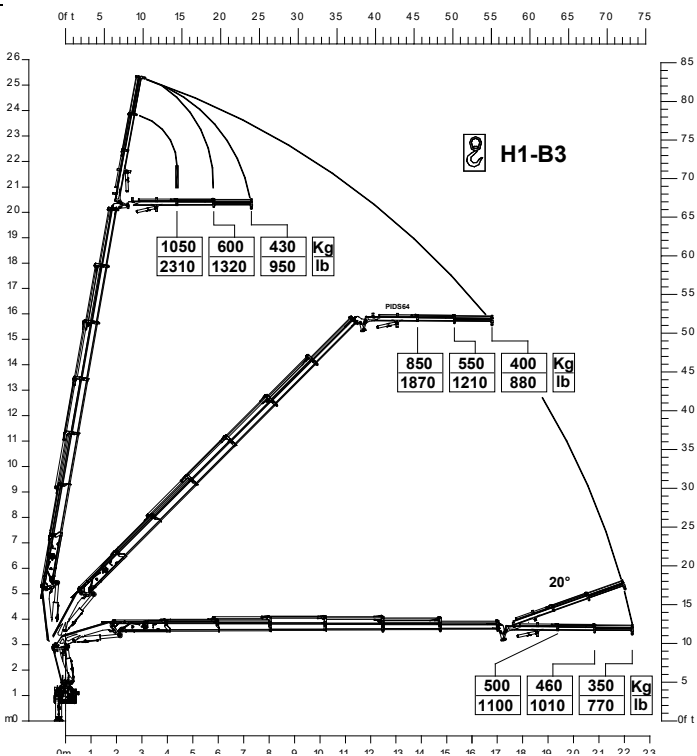
## 6 extensions



## 7 extensions



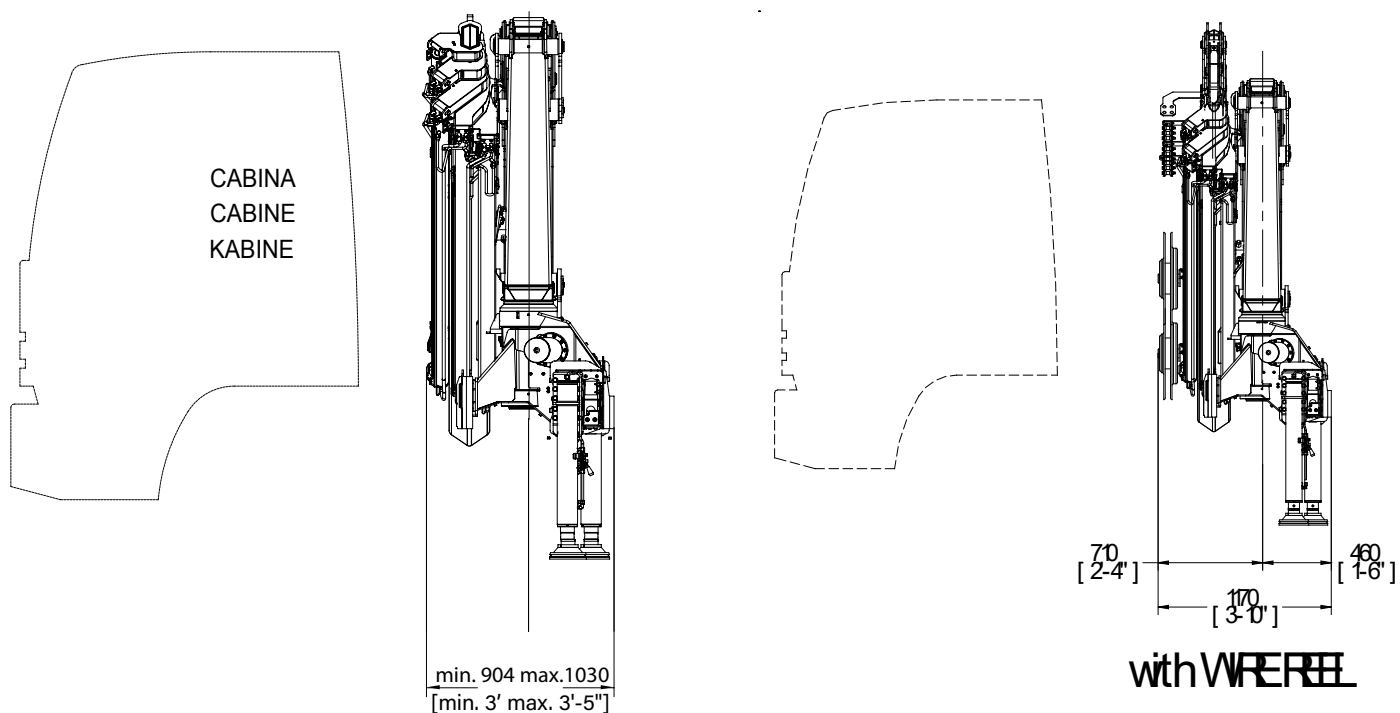
## 228.6 + J2



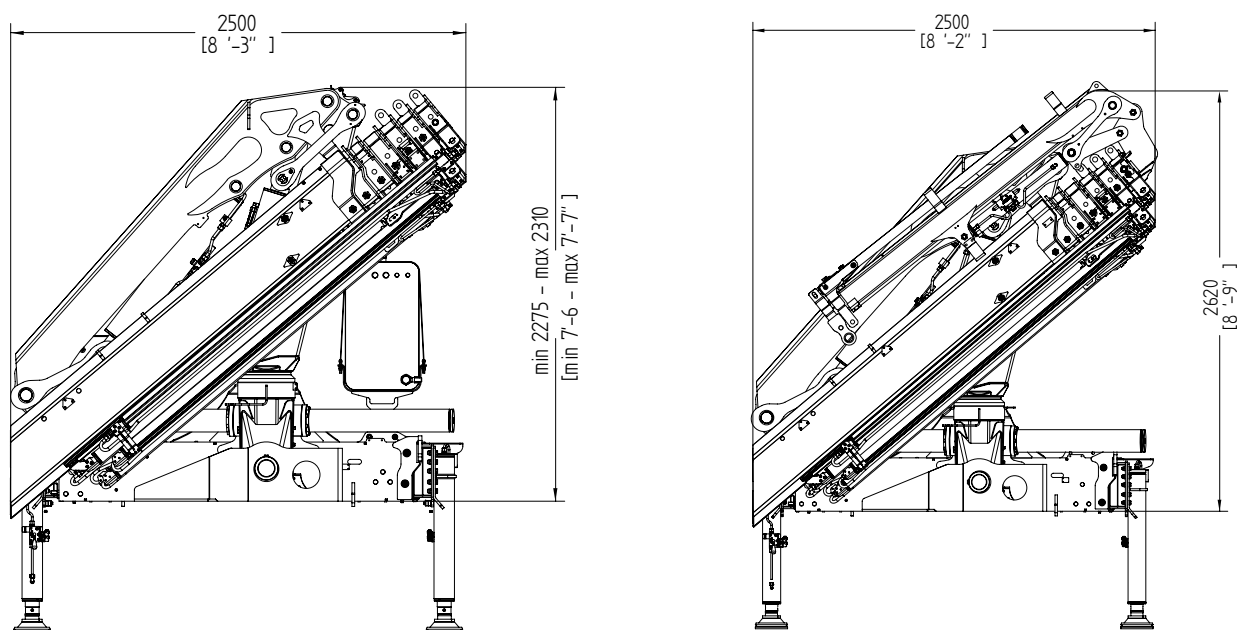
# 228 HIGH POWER

## Crane Dimensions

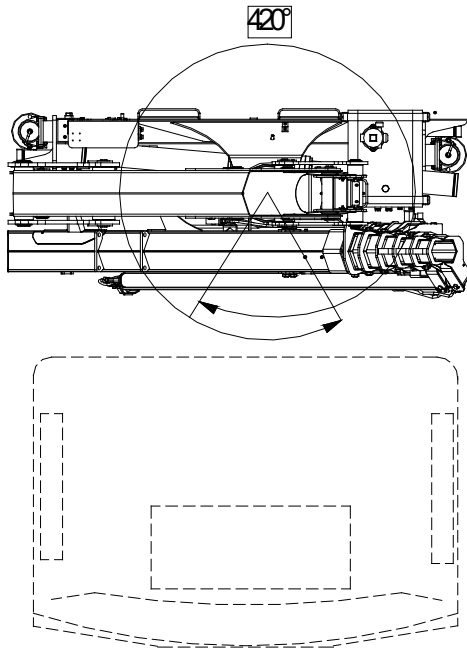
### back cabin left



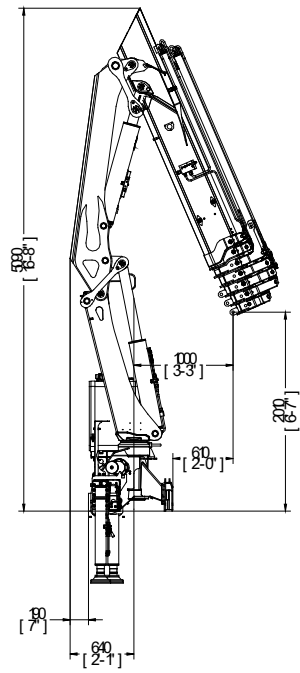
### rear truck



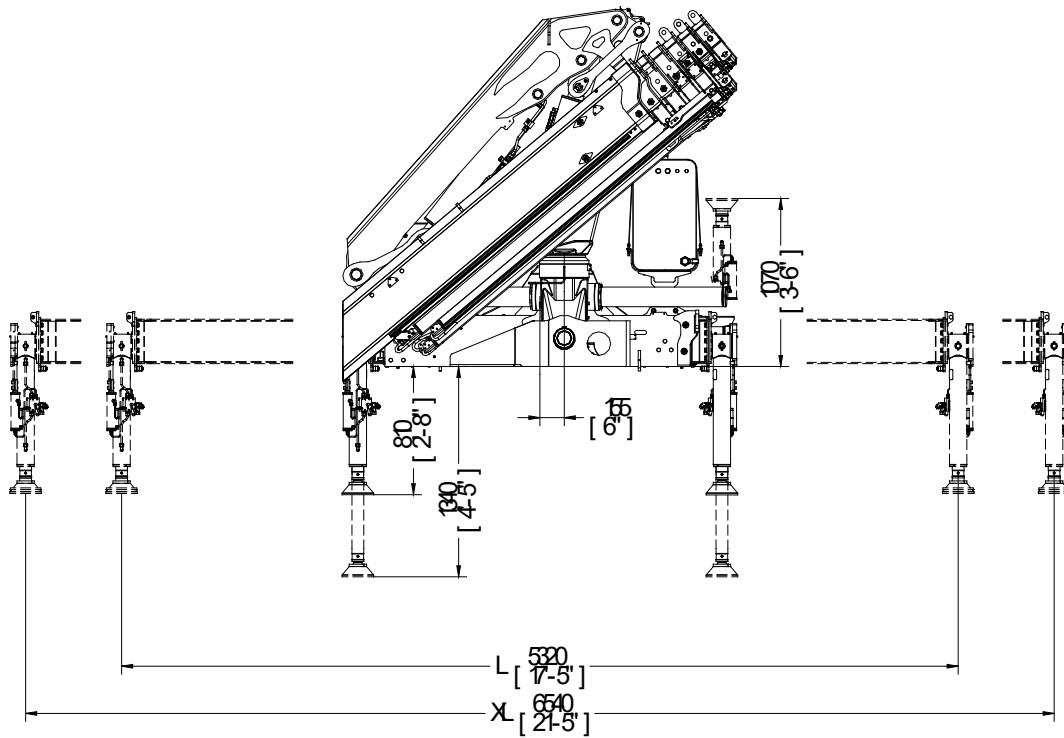
top cabin



operational



extended outriggers












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












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## Technical Data

### summarized data

									
	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
228.2	198.5	345	65	2220	420	2500	904	2275	5270/6500
228.3	193	345	65	2360	420	2500	904	2275	5270/6500
228.4	190	345	65	2490	420	2500	935	2275	5270/6500
228.4J2	190	345	65	2855	420	2500	1084	2640	5270/6500
228.4J3	190	345	65	2915	420	2500	1084	2640	5270/6500
228.4J4	190	345	65	2960	420	2500	1084	2640	5270/6500
228.5	186.7	345	65	2960	420	2500	1000	2275	5270/6500
228.5J2	186.7	345	65	2985	420	2500	1084	2640	5270/6500
228.5J3	186.7	345	65	3045	420	2500	1084	2640	5270/6500
228.5J4	186.7	345	65	3090	420	2500	1084	2640	5270/6500
228.6	183	345	65	2710	420	2500	1030	2275	5270/6500
228.6J2	183	345	65	3020	420	2500	1170	2620	5270/6500
228.7	177	345	65	2810	420	2500	1030	2310	5270/6500

									
	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
228.2	146406	5003	17.17	4890	420	8'2"	3'	7'6"	17'3"-21'3"
228.3	142349	5003	17.17	5200	420	8'2"	3'	7'6"	17'3"-21'3"
228.4	140317	5003	17.17	5490	420	8'2"	3'1"	7'6"	17'3"-21'3"
228.4J2	140317	5003	17.17	6290	420	8'2"	3'7"	8'8"	17'3"-21'3"
228.4J3	140317	5003	17.17	6430	420	8'2"	3'7"	8'8"	17'3"-21'3"
228.4J4	140317	5003	17.17	6530	420	8'2"	3'7"	8'8"	17'3"-21'3"
228.5	137703	5003	17.17	5750	420	8'2"	3'3"	7'6"	17'3"-21'3"
228.5J2	137703	5003	17.17	6580	420	8'2"	3'7"	8'8"	17'3"-21'3"
228.5J3	137703	5003	17.17	6710	420	8'2"	3'7"	8'8"	17'3"-21'3"
228.5J4	137703	5003	17.17	6810	420	8'2"	3'7"	8'8"	17'3"-21'3"
228.6	134974	5003	17.17	5970	420	8'2"	3'5"	7'6"	17'3"-21'3"
228.6J2	134974	5003	17.17	6660	420	8'2"	3'10"	8'7"	17'3"-21'3"
228.7	130549	5003	17.17	6190	420	8'2"	3'5"	7'7"	17'3"-21'3"

### technical data

Max. lifting moment	198.5 kNm	146406 ft.lbs
Max. hydraulic outreach	19.32 m	63'39"
Slewing angle	420°	420°
Slewing torque	2840 daNm	20939 ft.lbs
Stabilizer spread	5.27/6.5 mt	17'3"/21'3"
Fitting space required (min./max)	0.9 m/1.03 m	2'12"/3'5"
Width folded	2,50 m	8'2"
Max. operating pressure	345 bar	5003 psi
Recommended pump capacity	65 l/min	17.17 US gal./min
Dead weight (vers .2)	2220 kg	4890 lbs

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







**GET READY TO A  
BETTER LIFTING  
EXPERIENCE**



# COPMA 228



knuckle  
boom  
cranes



Powerful Synergies



**CPS**



**CPS  
STEEL**

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ISO 9001:2008



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