



Powerful Synergies



COPMA

POWER AND TECHNOLOGY

**ESSENTIAL \ HIGH POWER \ TOP RANGE
MODELS 2020**



COPMA

POWER AND TECHNOLOGY

COPMA STANDS FOR SUPERIOR PERFORMANCE, MAXIMUM LIFTING POWER, EXTREME DURABILITY, AND ACTIVE STABILITY POWER SYSTEMS.

For over 50 years COPMA has been guided by research and experimentation in materials and engineering. Its superior quality sits in technological expertise, engineering team, and mechanical know-how constantly pushing forward the boundaries of loader cranes.

COPMA is driven by a great passion for knuckle booms, a deeper focus on details and durability while expressing the optimal weight-power ratio for all the range of its loader cranes.

With a dynamic approach and a flexible design for serving the toughest markets and the most demanding operators, COPMA is a competitive truck lifting equipment and a true masterpiece of power and technology.

Mounted on industrial vehicles, heavy load vehicles, trucks and other vehicles these truck mounted knuckle booms can be fully hydraulic and equipped with secondary booms, jibs, remote controls and lifting work platforms. The complete range of models is organized in ESSENTIALS, HIGH POWER and TOP RANGE based on the lifting capacity, strength, weight and technological features.

ESSENTIAL

A POWERFUL AND COMPACT CRANE

COPMA ESSENTIAL models assist the load and unload of trucks and other vehicles. These essential knuckle booms for lorry vehicles have an exceptional operator friendliness and the best competitive engineering for efficiency, reliability and faster loading cycles. Engineered for a simpler design adopting a rotation with pinion and rack, articulation without linkages or only on the second arm and minimal hydraulic systems to facilitate and improve the speed of machine movements and minimize the necessity of maintenance. Completely fully hydraulic models in the NO-CE configurations, while in the CE versions they are equipped with a primary electronic assistance system ("light electronic system").

HIGH POWER

PERFORMANCE FOR EVERY OPERATOR

COPMA HIGH POWER knuckle booms are equipped with advanced solutions as linkages in both arms, secondary arms with a negative angle, a higher number of independent hydraulic extensions and innovative stabilizing solutions and outriggers to facilitate assembly even on the newest EURO 6 vehicles.

The full range of **HIGH POWER** models has a complete electronic system for managing additional accessories such as JIB, full range of sensor technology for maximizing the reach and the lifting capacity at the highest levels in their categories. These models can carry extra functions, winch, operator's basket, and other types of equipment and accessories.

TOP RANGE

EXTREME POWER FOR THE TOUGHEST NEEDS

TOP RANGE extreme powerful models are built tough for a superior lifting capacity and incredible power.

These models adopt all the features of the **HIGH POWER** knuckleboom cranes, plus a continuous rotation on the slewing bearing ring with a single or double geared motor, onboard active electronic system for handle any operator's need while improving the knuckleboom performance in every field of application.

Active sensors for controlling vehicle's frame flatness for directly optimize stability control together with the full possibility of radio control makes the **TOP RANGE** models the most performative on the field.

SALES & SERVICE

COMPREHENSIVE SPECIALIZED SALES

WE ENGINEER AND BUILD ALL OUR LIFTING SOLUTIONS IN CASTEL BOLOGNESE, BUT WE SELL WORLD-WIDE THROUGH A NETWORK OF DEALERS AND DISTRIBUTORS

We are a global team that originated in **Italy**, where we design, research and manufacture the entire spectrum of our products.

Our partners, dealers, sales and service agents are based in **Europe, Africa, North America, South America, Central America, Middle East, Asia**, and **Pacific Regions**.

We are local expertise of hard working conditions, heavy duty services, marine, and offshore environments with local teams able to assist and guide our operators for their best choice in their specific sector, for their specific needs as we are all part of the great team of **CPS GROUP**.

A GLOBAL PRESENCE FOR RELIABILITY, COMPETITIVITY AND LONG TERM QUALITY IN HEAVY LIFTING APPLICATIONS

CPS GROUP is an established presence in the global market, working with our operators and dealers in **Emea, Americas** and **Apac** facing diverse lifting challenges, complex operational environments with a direct approach to our customers, users, and operators for manufacturing and supplying the most flexible and tailored solutions for each specific need.

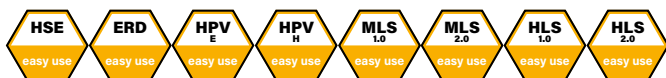
Our global presence is our field of experimentation, testing and research, integrating comprehensive know-how with highest levels of performance and the most endurance challenges for our equipment, we are a secure choice with an extensive network of sales, dealers, and service.

CONTENT OVERVIEW

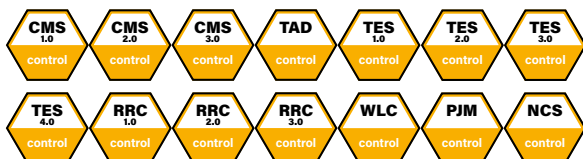
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TECHNICAL FEATURES

EASY USE



CONTROL



STRUCTURE



ADVANCED TECHNICAL FEATURES DESIGNED FOR EVERY FIELD OF APPLICATION. PROVIDING THE EASIEST USE AND OPERATOR FRIENDLY TECHNOLOGY, MORE CONTROL AND STRONGER STRUCTURAL IMPROVEMENTS TO THE KNUCKLE BOOM CRANE AS NEVER BEFORE.

Our technical features are optimized in **EASY USE**, **CONTROL**, and **STRUCTURE** for providing the best reliable and user-friendly technology features and highest grades of steel resistance for both standard and optional configurations.

COPMA knuckle booms are built tough to perform in every working condition at the highest standards of safety, lifting capacity and operational capabilities. With superior levels of performance, safety and security thanks to advanced stability controls, **COPMA** represents the cutting-edge of **CPS GROUP** research and development for providing the most comprehensive availability of lifting solutions.



TECHNICAL FEATURES

HSE High Speed Extension

easy use

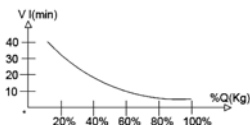
Hydraulic system for reducing load losses and bottlenecks for the correct output sequence of the extensions by increasing the speed of 30%-60% thanks to the regenerative valve. Greater continuous performance thanks to lower fluid temperature.



HPV E High Power Velocity Electronic

easy use

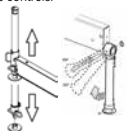
A valve electronically manages the flow of oil to the distributor by increasing the load capacity of the crane and intervening on the lifting speed and allowing the reduction of dynamic effects while optimizing performance.



MLS 1.0 Manual Lifting Stabilizers

easy use

Manual lifting of the crane legs. The manual lifting of the legs helps the operator adjust its extension manually without additional assistance from electronics or hydraulic controls.



HLS 1.0 Hydraulic Lifting Stabilizers

easy use

Simplified vertical hydraulic lifting system: no auxiliary hydraulic devices are supplied. The stabilizer cylinder lifts up thanks to the presence of a sliding rod equipped with a braking pad which allows the stabilizer cylinder to slide vertically inside the bushing attached to the stabilizing



CMS 1.0 Crane Monitoring System

control

Crane stability control system TES1-TES2, with safety control and overload control for medium-small cranes. Controls the crane in 4 work areas, and each zone can have custom lifting settings depending on the vehicle stability.



ERD Electronic Radio Display

easy use

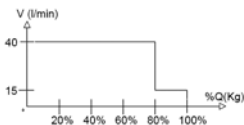
A display on the remote control allows the operator to maintain the total control of all the crane functions in real time by managing the work mode, the stability control, and oversee any maintenance and diagnostic messages.



HPV H High Power Velocity Hydraulic

easy use

Fully automatic hydraulic system for adjusting the crane lifting speed according to the maximum working pressure. With this system, the load capacity of the machine is optimized by reducing the dynamic structural effects.



MLS 2.0 Manual Lifting Stabilizers

easy use

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.



HLS 2.0 Hydraulic Lifting Stabilizers

easy use

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.



CMS 2.0 Crane Monitoring System

control

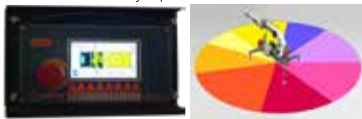
Crane stability control system TES2-TES3 with safety and overload controls and HPV E lifting speed management. Active control on 4-8 working areas according to the model and vehicle stability requirements.



TECHNICAL FEATURES

CMS 3.0 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.



TAD 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.



TES 1.0 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.



TES 2.0 Truck Electronic Stability 2.0

Active stability control for performance optimization according to the type of stabilization (2) to guarantee maximum safety in all working conditions. Mandatory in the CE market, it helps a better vehicle-crane configuration.



TES 3.0 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.



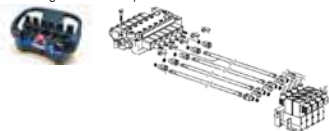
TES 4.0 Truck Electronic Stability 4.0

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.



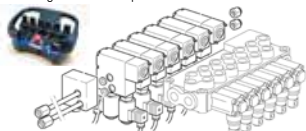
RRC 1.0 Radio Remote Control 1.0

Radio remote control with actuation electronics directly connected with the standard distribution. The remote control allows operating the crane while continually monitoring the areas of operation.



RRC 2.0 Radio Remote Control 2.0

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



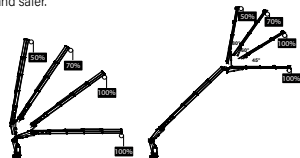
RRC 3.0 Radio Remote Control 3.0

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



WLC 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.



TECHNICAL FEATURES

PJM 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.



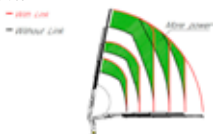
NCS Negative Control System

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.



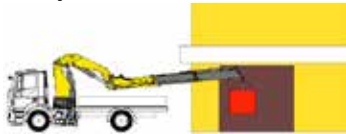
CCLS Constant Control Link System

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.



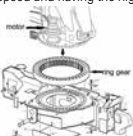
NBS Negative Boom System

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.



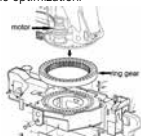
RES 1.0 Rotation Endless System

A rotating bearing and one or two gearboxes system, the electric wires are linked between base-column with a swivel electrical-hydraulic joint. Allows operator to gain maximum power also at the slowest operational speed and having the highest precision.



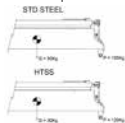
RES 2.0 Rotation Endless System

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.



HTSS 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.



RRP Rotation Rack Pinion

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



COPMA KNUCKLE BOOM CRANES ARE ENGINEERED WITH THE LIGHTEST AND STRONGEST STEEL, DESIGNED AND ASSEMBLED IN ITALY AT CPS GROUP'S FACTORIES IN CASTEL BOLOGNESE. DRIVEN BY A UNIQUE PASSION FOR RESEARCH, MATERIALS EXPERIMENTATION AND TECHNOLOGY, COPMA IS A TRUE MASTERPIECE OF HEAVY LIFTING.

ESSENTIAL MODEL 35



standard

- easy use
- control
- structure



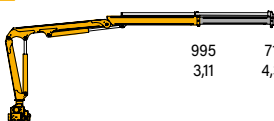
optional

- control



*CE version

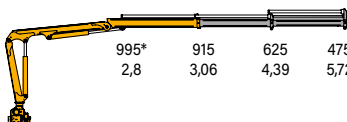
35.1



2190 1570 lbs
10'2" 14'3" ft

995 710 kg
3,11 4,34 m

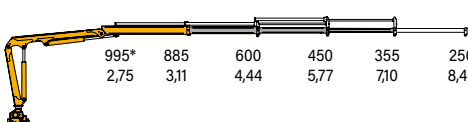
35.2



2020* 2190 1380 1050 lbs
9'2" 10" 14'5" 18'9" ft

995* 915 625 475 kg
2,8 3,06 4,39 5,72 m

35.3



2190* 1950 1320 990 780 550 lbs
9'0" 10'2" 14'7" 18'11" 23'4" 27'8" ft

995* 885 600 450 355 250 kg
2,75 3,11 4,44 5,77 7,10 8,45 m

*Theoretical capacity at fixed hook



kN.m bar l/min kg ° mm mm mm mm

35.1 30,36 235 10 455 400 1711 530 1576 3600

35.2 27,47 240 10 490 400 1711 530 1576 3600

35.3 27 240 10 515 400 1745 530 1576 3600



lbs psi gal/min lbs ° ft/inc ft/inc ft/inc ft/inc

35.1 21959 3408 2,6 1000 400 5' 7" 1'9" 5'2" 11'10"

35.2 19869 3480 2,6 1080 400 5' 7" 1'9" 5'2" 11'10"

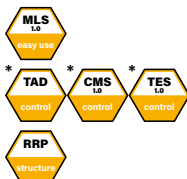
35.3 19529 3480 2,6 1140 400 5' 8" 1'9" 5'2" 11'10"

ESSENTIAL MODEL 37



standard

- easy use
- control
- structure

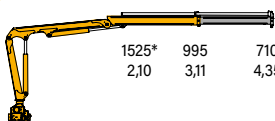


optional

- control



37.1

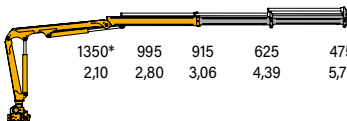


3360* 2190 1570 lbs
6'11" 10'2" 14'3" ft

1525* 995 710 kg
2,10 3,11 4,35 m

*CE version

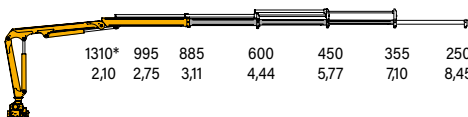
37.2



2980* 2190 2020 1380 1050 lbs
6'11" 9'2" 10'0" 14'5" 18'9" ft

1350* 995 915 625 475 kg
2,10 2,80 3,06 4,39 5,72 m

37.3



2890* 2190 2190 2060 1470 780 820 lbs
6'11" 9'0" 6'7" 11'2" 15'5" 20'4" 25'3" ft

1310* 995 885 600 450 355 250 kg
2,10 2,75 3,11 4,44 5,77 7,10 8,45 m

* Theoretical capacity at fixed hook

	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
37.1	31,4	235	10	455	400	1711	507	1576	3600
37.2	27,8	240	10	490	400	1711	507	1576	3600
37.3	27,01	240	10	515	400	1745	507	1576	3600

	lbs	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
37.1	22771	3408	2,6	1000	400	1'7"	1'8"	5'2"	11'10"
37.2	20188	3480	2,6	1080	400	1'7"	1'8"	5'2"	11'10"
37.3	19531	3480	2,6	1140	400	1'7"	1'8"	5'2"	11'10"

ESSENTIAL MODEL 42



standard

- easy use
- control
- structure



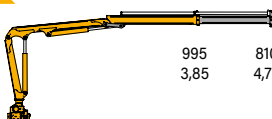
optional

- control



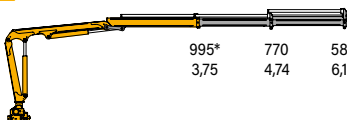
*CE version

42.1



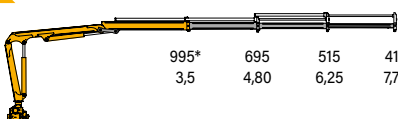
2190	1790	lbs
12'8"	15'5"	ft
995	810	kg
3,85	4,70	m

42.2



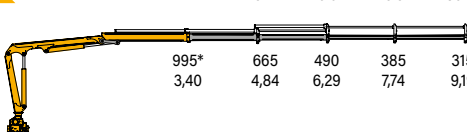
2190*	1700	1280	lbs
12'4"	15'7"	20'4"	ft
995*	770	580	kg
3,75	4,74	6,19	m

42.3



2190*	1530	1140	900	lbs
11'6"	15'9"	20'6"	25'3"	ft
995*	695	515	410	kg
3,5	4,80	6,25	7,70	m

42.4



2190*	1470	1080	850	690	lbs
11'2"	15'11"	20'8"	25'5"	30'2"	ft
995*	665	490	385	315	kg
3,40	4,84	6,29	7,74	9,19	m

*Theoretical capacity at fixed hook



	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
42.1	37,6	290	10	512	400	1784	530	1630	4000
42.2	36,6	290	10	550	400	1784	530	1630	4000
42.3	34,2	290	10	585	400	1840	530	1630	4000
42.4	33,2	290	10	620	400	1840	530	1630	4000



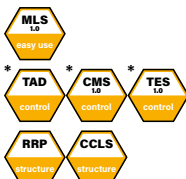
	lbs	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
42.1	27196	4205	2,6	1130	400	5'10"	1'9"	5'4"	13'1"
42.2	26473	4205	2,6	1210	400	5'10"	1'9"	5'4"	13'1"
42.3	24708	4205	2,6	1290	400	6'1"	1'9"	5'4"	13'1"
42.4	23999	4205	2,6	1370	400	6'1"	1'9"	5'4"	13'1"

ESSENTIAL MODEL 44



standard

- easy use
- control
- structure



optional

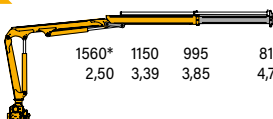
- control



*CE version

44.1

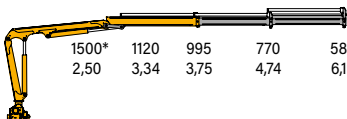
3440* 2540 2190 1790 lbs
8'2" 11'1" 12'8" 15'5" ft



1560* 1150 995 810 kg
2,50 3,39 3,85 4,70 m

44.2

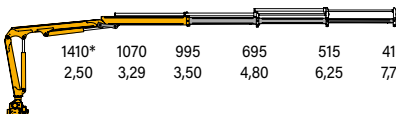
3310* 2470 2190 1700 1280 lbs
8'2" 10'11" 12'4" 15'7" 20'4" ft



1500* 1120 995 770 580 kg
2,50 3,34 3,75 4,74 6,19 m

44.3

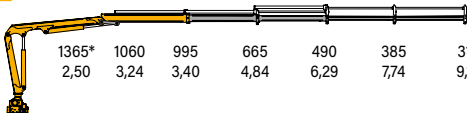
3110* 2360 2190 1530 1140 900 lbs
8'2" 10'10" 11'6" 15'9" 20'6" 25'3" ft



1410* 1070 995 695 515 410 kg
2,50 3,29 3,50 4,80 6,25 7,70 m

44.4

3030* 2340 2190 1470 1080 850 690 lbs
8'2" 10'8" 11'2" 15'11" 20'8" 25'5" 30'2" ft



1365* 1060 995 665 490 385 315 kg
2,50 3,24 3,40 4,84 6,29 7,74 9,19 m

* Theoretical capacity at fixed hook



	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
44.1	38,3	290	10	512	400	1784	530	1630	4000
44.2	36,8	290	10	550	400	1784	530	1630	4000
44.3	34,6	290	10	585	400	1840	530	1630	4000
44.4	33,7	290	10	620	400	1840	530	1630	4000



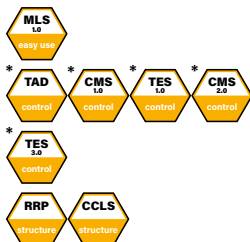
	lbs	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
44.1	2770	4205	2,6	1130	400	5'10"	1'9"	5'4"	13'1"
44.2	2662	4205	2,6	1210	400	5'10"	1'9"	5'4"	13'1"
44.3	2503	4205	2,6	1290	400	6'1"	1'9"	5'4"	13'1"
44.4	2438	4205	2,6	1370	400	6'1"	1'9"	5'4"	13'1"

ESSENTIAL MODEL 60



standard

- easy use
- control
- structure



optional

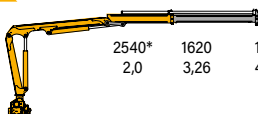
- control



*CE version
* Only for CE version
○ Only in combination with CMS 2.0

60.1

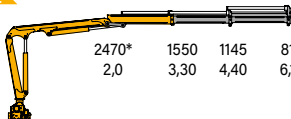
5600* 3570 2670 lbs
6'7" 10'8" 14'4" ft



2540* 1620 1210 kg
2,0 3,26 4,36 m

60.2

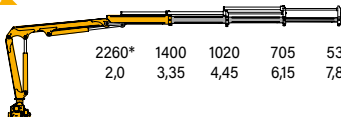
5450* 3420 2520 1800 lbs
6'7" 10'10" 14'5" 20" ft



2470* 1550 1145 815 kg
2,0 3,30 4,40 6,10 m

60.3

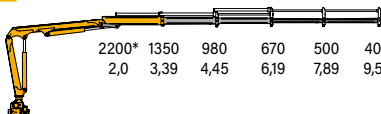
4980* 390 2250 1550 1180 lbs
13'00" 13'00" 14'7" 20'2" 25'7" ft



2260* 1400 1020 705 535 kg
2,0 3,35 4,45 6,15 7,80 m

60.4

4850* 2980 2160 1450 1100 880 lbs
6'7" 11'1" 14'7" 20'4" 25'1" 31'6" ft



2200* 1350 980 670 500 400 kg
2,0 3,39 4,45 6,19 7,89 9,59 m

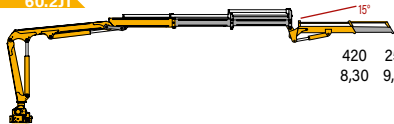
* Theoretical capacity at fixed hook

	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
60.1	52	270	20	720	400	1990	633	1908	3500/4600
60.2	50.2	270	20	790	400	1990	633	1908	3500/4600
60.2J1	50.2	270	20	970	400	1990	740	2100	3500/4600
60.2J2	50.2	270	20	1000	400	1990	740	2100	3500/4600
60.3	46	270	20	845	400	1990	633	1908	3500/4600
60.4	45	270	20	890	400	1990	633	1908	3500/4600



60.2J1

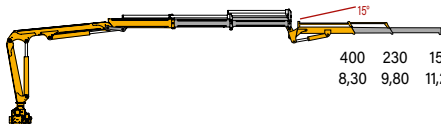
930 550 lbs
27'3" 32'2" ft



420 250 kg
8,30 9,80 m

60.2J2

880 510 330 lbs
27'3" 32'2" 36'9" ft



400 230 150 kg
8,30 9,80 11,20 m

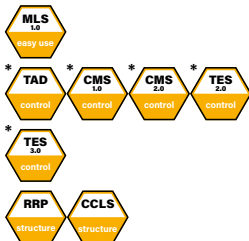
	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
60.1	37467	3840	5,3	1590	400	6'6"	2'1"	6'3"	11'6"/15'1"
60.2	37467	3840	5,3	1740	400	6'6"	2'1"	6'3"	11'6"/15'1"
60.2J1	37467	3840	5,3	2140	400	6'6"	2'5"	6'1"	11'6"/15'1"
60.2J2	37467	3840	5,3	2200	400	6'6"	2'5"	6'1"	11'6"/15'1"
60.3	33272	3840	5,3	1860	400	6'6"	2'1"	6'3"	11'6"/15'1"
60.4	32549	3840	5,3	1960	400	6'6"	2'1"	6'3"	11'6"/15'1"

ESSENTIAL MODEL 78



standard

- easy use
- control
- structure



optional

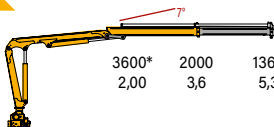
- control



*CE version
* Only for CE version
○ Only in combination with CMS 2.0

78.1

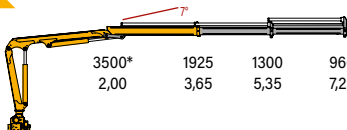
7940* 4410 3000 lbs
6'7" 11'10" 17'5" ft



3600* 2000 1360 kg
2,00 3,6 5,3 m

78.2

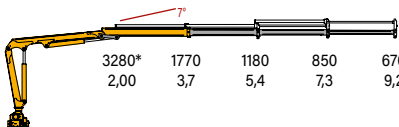
7720* 4240 2870 2120 lbs
6'7" 12'0" 17'7" 23'9" ft



3500* 1925 1300 960 kg
2,00 3,65 5,35 7,25 m

78.3

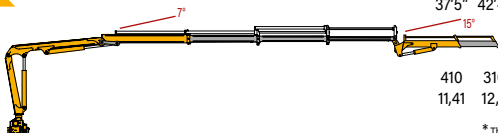
7216* 3894 2596 1870 1474 lbs
6'7" 12'2" 17'9" 23'1" 30'2" ft



3280* 1770 1180 850 670 kg
2,00 3,7 5,4 7,3 9,2 m

78.3J1

902 682 lbs
37'5" 42'4" ft



410 310 kg
11,41 12,9 m

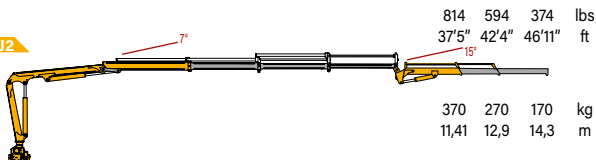
* Theoretical capacity at fixed hook



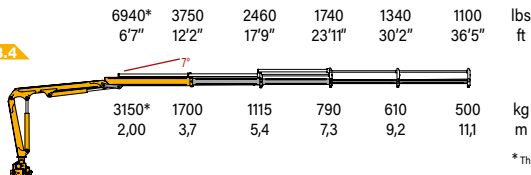
	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
78.1	70.6	300	25	800	370	2195	627	1876	4500/5150
78.2	68.9	300	25	870	370	2195	627	1876	4500/5150
78.3	64.3	300	25	930	370	2195	627	1876	4500/5150
78.3J1	64.3	300	25	1080	370	2195	733	2137	4500/5150
78.3J2	64.3	300	25	1110	370	2195	733	2137	4500/5150
78.4	61.7	300	25	1000	370	2195	627	1876	4500/5150



78.3J2



78.4



* Theoretical capacity at fixed hook

	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
78.1	51065	4350	6,6	1765	370	7'2"	2'1"	6'2"	14'9"/16'11"
78.2	49855	4350	6,6	1918	370	7'2"	2'1"	6'2"	14'9"/16'11"
78.3	33272	4350	6,6	2046	370	7'2"	2'1"	6'2"	14'9"/16'11"
78.3J1	33272	4350	6,6	2380	370	7'2"	2'5"	7'0"	14'9"/16'11"
78.3J2	33272	4350	6,6	2445	370	7'2"	2'5"	7'0"	14'9"/16'11"
78.4	32549	4350	6,6	2200	370	7'2"	2'1"	6'3"	14'9"/16'11"

ESSENTIAL MODEL 80



standard

• control



• structure



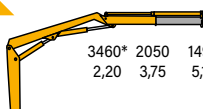
optional

• control



80.1

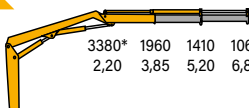
7630* 4520 3280 lbs
7'3" 12'4" 16'11" ft



3460* 2050 1490 kg
2,20 3,75 5,15 m

80.2

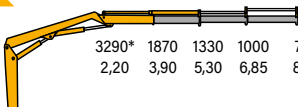
7450* 4320 3110 2350 lbs
7'3" 12'8" 17'1" 22'4" ft



3380* 1960 1410 1065 kg
2,20 3,85 5,20 6,80 m

80.3

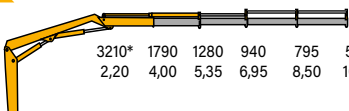
7250* 4120 2930 2200 1750 lbs
7'3" 12'10" 17'5" 22'6" 27'9" ft



3290* 1870 1330 1000 795 kg
2,20 3,90 5,30 6,85 8,45 m

80.4

7080* 3950 2820 2070 1753 1300 lbs
7'3" 13'1" 17'7" 22'10" 27'11" 33'4" ft



3210* 1790 1280 940 795 590 kg
2,20 4,00 5,35 6,95 8,50 10,15 m

*CE version
● Only with XL outlet outriggers

* Theoretical capacity at fixed hook



	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
80L.1	71,04	270	25	1040	370	2270	701	2079	3256/4426
80L.2	69,7	270	25	1110	370	2270	701	2079	3256/4426
80L.3	68,46	270	25	1170	370	2278	701	2079	3256/4426
80L.4	65,45	270	25	1220	370	2283	701	2079	3256/4426



	lbs	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
80L.1	51383	3915	6,6	2290	370	7'5"	2'4"	6'10"	10'8" / 14'6"
80L.2	50413	3915	6,6	2450	370	7'5"	2'4"	6'10"	10'8" / 14'6"
80L.3	49516	3915	6,6	2580	370	7'6"	2'4"	6'10"	10'8" / 14'6"
80L.4	47339	3915	6,6	2690	370	7'6"	2'4"	6'10"	10'8" / 14'6"

ESSENTIAL MODEL 108



standard

• control



• structure



optional

• control



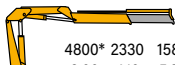
• easy use



*CE version
* Only for CE version
* Only in combination with CMS 2.0

108.1

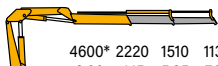
10580* 5140 3480 lbs
6'7" 13'5" 19'4" ft



4800* 2330 1580 kg
2,00 4,10 5,90 m

108.2

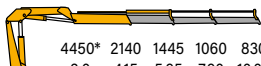
10140* 4890 3330 2490 lbs
6'7" 13'7" 19'6" 25'11" ft



4600* 2220 1510 1130 kg
2,00 4,15 5,95 7,90 m

108.3

9810* 4720 3190 2340 1830 lbs
6'7" 13'5" 19'4" 25'11" 32'9" ft



4450* 2140 1445 1060 830 kg
2,0 4,15 5,95 7,90 10,00 m

108.3J1

1034 880 lbs
40'8" 45'3" ft



470 400 kg
12,4 13,8 m

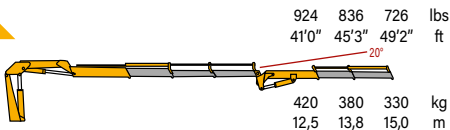
* Theoretical capacity at fixed hook



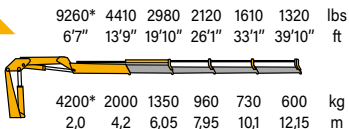
	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
108.1	93.7	280	25	1000	400	2323	737	2106	4350/5200
108.2	90.4	280	25	1100	400	2323	737	2106	4350/5200
108.3	87.1	280	25	1190	400	2323	737	2106	4350/5200
108.3J1	87.1	280	25	1310	400	2323	869	2350	4350/5200
108.3J2	87.1	280	25	1350	400	2323	869	2350	4350/5200
108.4	61.7	280	25	1260	400	2323	737	2106	4350/5200



108.3J2



108.4



* Theoretical capacity at fixed hook

	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
108.1	69109	4060	6,6	2205	400	7'7"	2'1"	6'1"	14'9"/16'11"
108.2	66675	4060	6,6	2425	400	7'7"	2'1"	6'1"	14'9"/16'11"
108.3	64242	4060	6,6	2620	400	7'7"	2'1"	6'1"	14'9"/16'11"
108.3J1	64242	4060	6,6	2890	400	7'7"	2'10"	7'9"	14'9"/16'11"
108.3J2	64242	4060	6,6	2975	400	7'7"	2'10"	7'9"	14'9"/16'11"
108.4	32549	4060	6,6	2775	400	7'7"	2'1"	6'1"	14'9"/16'11"

ESSENTIAL MODEL 128



standard

- control
- structure



optional

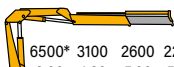
- control
- easy use



*CE version

128.1

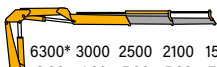
14330* 6830 5730 4850 lbs
6'7" 13'9" 16'5" 19'4" ft



6500* 3100 2600 2200 kg
2,00 4,20 5,00 5,90 m

128.2

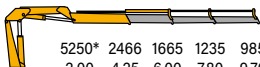
13890* 6610 5510 4630 3440 lbs
6'7" 13'9" 16'50" 19'4" 25'3" ft



6300* 3000 2500 2100 1560 kg
2,00 4,20 5,00 5,90 7,70 m

128.3

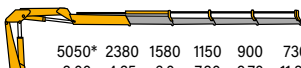
11570* 5440 3670 2720 2170 lbs
6'7" 13'11" 19'8" 25'7" 31'10" ft



5250* 2466 1665 1235 985 kg
2,00 4,25 6,00 7,80 9,70 m

128.4

11130* 5250 3480 2540 1980 1610 lbs
6'7" 13'11" 19'8" 25'7" 31'1" 38'9" ft



5050* 2380 1580 1150 900 730 kg
2,00 4,25 6,0 7,80 9,70 11,80 m

* Theoretical capacity at fixed hook

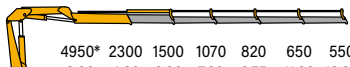


	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
128.1	128	310	25	1330	400	2360	821	2202	4380/5240
128.2	123	310	25	1420	400	2360	821	2202	4380/5240
128.3	102	290	25	1526	400	2360	821	2202	4380/5240
128.4	99,3	290	25	1623	400	2360	821	2202	4380/5240
128.5	97	290	25	1700	400	2362	821	2202	4380/5240
128.6	94,3	290	30	1781	400	2412	830	2202	4380/5240



128.5

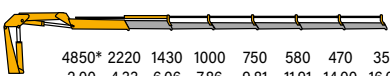
10910* 5070 3310 2360 1810 1430 1210 lbs
 6'7" 14'1" 19'8" 25'7" 32'0" 38'9" 45'7" ft



4950* 2300 1500 1070 820 650 550 kg
 2,00 4,30 6,00 7,80 9,75 11,80 13,90 m

128.6

10690* 4890 3150 2200 1650 1280 1040 770 lbs
 6'7" 14'2" 19'11" 25'9" 32'2" 39'1" 45'11" 52'6" ft



4850* 2220 1430 1000 750 580 470 350 kg
 2,00 4,33 6,06 7,86 9,81 11,91 14,00 16,00 m

* Theoretical capacity at fixed hook



	lbs	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
128.1	92400	4495	6,6	2930	400	7'9"	2'8"	7'3"	14'4"/17'2"
128.2	89000	4495	6,6	3100	400	7'9"	2'8"	7'3"	14'4"/17'2"
128.3	74365	4205	6,6	3327	400	7'9"	2'8"	7'3"	14'4"/17'2"
128.4	71824	4205	6,6	3538	400	7'9"	2'8"	7'3"	14'4"/17'2"
128.5	70160	4205	6,6	3740	400	7'9"	2'8"	7'3"	14'4"/17'2"
128.6	68207	4205	6,6	3882	400	7'11"	2'9"	7'3"	14'4"/17'2"

HIGH POWER MODEL 130A

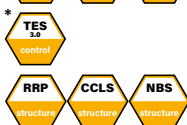


standard

• control



• structure



optional

• control



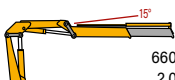
• easy use



*CE version
 ° Only for CE version
 ○ only in combination with CMS 2.0

130A.1

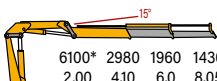
15551* 7210 4410 lbs
 6'6" 13'3" 19'6" ft



6600* 3270 2000 kg
 2,00 4,05 5,95 m

130A.2

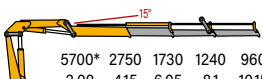
13448* 6570 4320 3153 lbs
 6'6" 13'45" 19'7" 26'5" ft



6100* 2980 1960 1430 kg
 2,00 4,10 6,0 8,05 m

130A.3

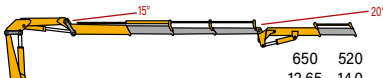
12566* 6063 3814 2734 2117 lbs
 6'6" 13'7" 19'9" 26'6" 33'3" ft



5700* 2750 1730 1240 960 kg
 2,00 4,15 6,05 8,1 10,15 m

130A.3J1

1430 1145 lbs
 4'16" 45'11" ft



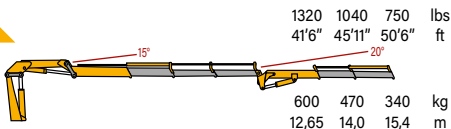
650 520 kg
 12,65 14,0 m

* Theoretical capacity at fixed hook

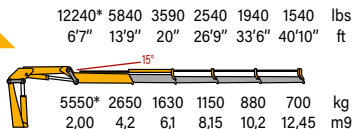


	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
130A.1	130	280	40	1520	400	2470	792	2185	4600/5600
130A.2	120	280	40	1630	400	2470	792	2185	4600/5600
130A.3	112	305	40	1730	400	2470	850	2185	4600/5600
130A.3J1	112	305	40	1950	400	2470	979	2475	4600/5600
130A.3J2	112	305	40	1990	400	2470	979	2475	4600/5600
130A.4	109	305	40	1830	400	2470	850	2185	4600/5600
130A.4J1	109	305	40	2070	400	2470	979	2475	4600/5600
130A.4J2	109	305	40	2105	400	2470	979	2475	4600/5600
130A.5	105	305	40	1920	400	2470	850	2185	4600/5600
130A.6	101	305	40	2000	400	2470	850	2185	4600/5600

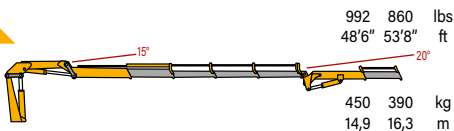
130A.3J2



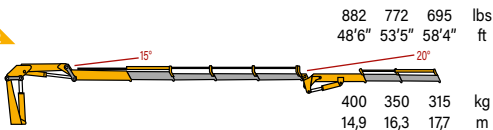
130A.4



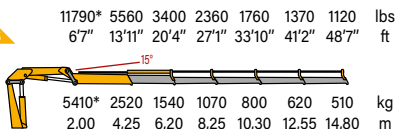
130A.4J1



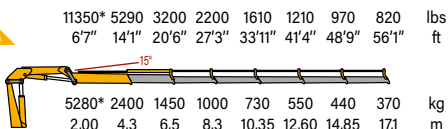
130A.4J2



130A.5



130A.6



* Theoretical capacity at fixed hook



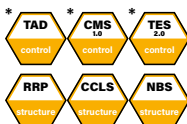
	lbs	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
130A.1	94030	4060	10.5	3350	400	7'12"	2'7"	7'2"	15' 1"/18'4"
130A.2	88507	4060	10.5	3590	400	7'12"	2'7"	7'2"	15' 1"/18'4"
130A.3	81009	4423	10.5	3810	400	7'12"	2'9"	3'3"	15' 1"/18'4"
130A.3J1	81009	4423	10.5	4300	400	7'12"	3'3"	8'2"	15'1"/18'4"
130A.3J2	81009	4423	10.5	4390	400	7'12"	3'3"	8'2"	15'1"/18'4"
130A.4	80394	4423	10.5	4030	400	7'12"	2'9"	7'2"	15' 1"/18'4"
130A.4J1	80394	4423	10.5	4340	400	7'12"	3'3"	8'2"	15'1"/18'4"
130A.4J2	80394	4423	10.5	4430	400	7'12"	3'3"	8'2"	15'1"/18'4"
130A.5	77444	4423	10.5	4230	400	7'12"	2'9"	7'3"	15' 1"/18'4"
130A.6	73219	4423	10.5	4410	400	7'12"	2'9"	7'3"	15' 1"/18'4"

ESSENTIAL MODEL 158



standard

- control
- structure



optional

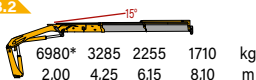
- control
- easy use



*CE version
* Only for CE version
○ Only in combination with CMS 2.0

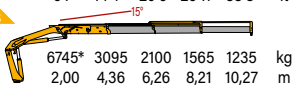
15390* 7240 4970 3770 lbs
6'7" 13'11" 20'2" 26'7" ft

158.2



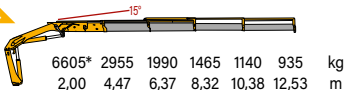
14870* 6820 4630 3450 2720 lbs
6'7" 14'4" 20'6" 26'11" 33'8" ft

158.3



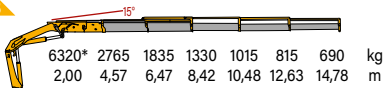
14560* 6510 4390 3230 2510 2060 lbs
6'7" 14'8" 20'11" 27'3" 34'1" 41'1" ft

158.4



13930* 6096 4045 2932 2238 1797 1521 lbs
6'7" 14'12" 21'3" 27'7" 34'4" 41'5" 48'6" ft

158.5



* Theoretical capacity at fixed hook

	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
158.2	137	305	40	1800	420	2500	880	2270	4600/5270/6500
158.3	132,5	305	40	1920	420	2500	880	2270	4600/5270/6500
158.4	129,7	305	40	2030	420	2500	910	2270	4600/5270/6500
158.5	123,9	305	40	2135	420	2500	970	2270	4600/5270/6500

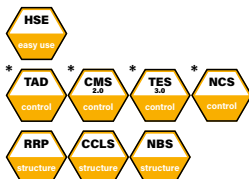
	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
158.2	101011	4423	10,57	3968	420	8'2"	2'10"	7'5"	15'1"-17'3"-21'3"
158.3	97693	4423	10,57	4232	420	8'2"	2'12"	7'5"	15'1"-17'3"-21'3"
158.4	95629	4423	10,57	4784	420	8'2"	3'	7'5"	15'1"-17'3"-21'3"
158.5	91352	4423	10,57	4706	420	8'2"	3'2"	7'5"	15'1"-17'3"-21'3"

HIGH POWER MODEL 168



standard

- easy use
- control
- structure



optional

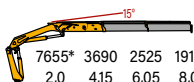
- control
- easy use



*CE version
* Only for CE version
○ Only in combination with CMS 2.0

168.2

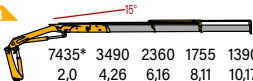
16880* 8130 5570 4210 lbs
6'7" 13'7" 19'10" 26'3" ft



7655* 3690 2525 1910 kg
2,0 4,15 6,05 8,0 m

16391* 7690 5200 3870 3060 lbs
6'7" 13'12" 20'2" 26'7" 33'4" ft

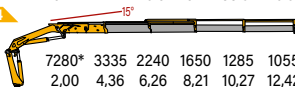
168.3



7435* 3490 2360 1755 1390 kg
2,0 4,26 6,16 8,11 10,17 m

168.4

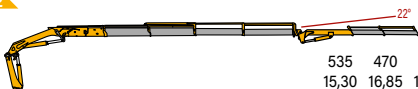
16050* 7360 4950 3650 2840 2340 lbs
6'7" 14'4" 20'6" 26'11" 33'8" 40'9" ft



7280* 3335 2240 1650 1285 1055 kg
2,00 4,36 6,26 8,21 10,27 12,42 m

168.4J2

1180 1040 940 lbs
50'2" 55'3" 60'8" ft

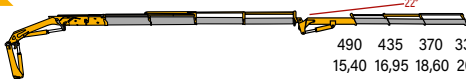


535 470 425 kg
15,30 16,85 18,50 m

*Theoretical capacity at fixed hook

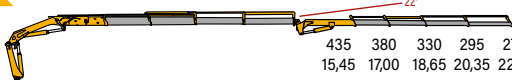
	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
168.2	150	300	40	1935	420	2500	880	2275	4600/5270/6500
168.3	146	300	40	2055	420	2500	880	2275	4600/5270/6500
168.4	143	300	40	2170	420	2500	915	2275	4600/5270/6500
168.4J2	143	300	40	2525	420	2500	1060	2640	4600/5270/6500
168.4j3	143	300	40	2590	420	2500	1060	2640	4600/5270/6500
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	996	2275	4600/5270/6500
168.7	130.6	300	40	2470	420	2500	996	2310	4600/5270/6500

168.4J3



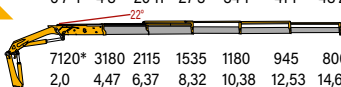
1080 960 820 730 lbs
50'6" 55'7" 61'0" 66'7" ft
490 435 370 330 kg
15,40 16,95 18,60 20,30 m

168.4J4



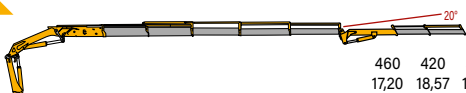
960 840 730 650 600 lbs
50'8" 55'9" 61'2" 66'9" 72'6" ft
435 380 330 295 270 kg
15,45 17,00 18,65 20,35 22,10 m

168.5



15700*7020 4670 3400 2600 2090 1770 lbs
6'7"1 4'8" 20'11" 27'3" 34'1" 41'1" 48'2" ft
7120* 3180 2115 1535 1180 945 800 kg
2,0 4,47 6,37 8,32 10,38 12,53 14,68 m

168.5J2



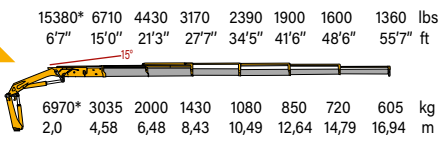
1010 930 770 lbs
56'5" 60'11" 65'6" ft
460 420 350 kg
17,20 18,57 19,97 m

* Theoretical capacity at fixed hook

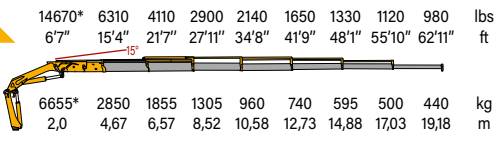
	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
168.2	110596	4351	10,57	3968	420	8'2"	2'11"	7'6"	15'1"-17'3"-21'3"
168.3	107426	4351	10,57	4530	420	8'2"	2'11"	7'6"	15'1"-17'3"-21'3"
168.4	105214	4351	10,57	4784	420	8'2"	2'11"	7'6"	15'1"-17'3"-21'3"
168.4J2	105214	4351	10,57	5570	420	8'2"	3'6"	8'8"	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"	3'0"	7'6"	15'1"-17'3"-21'3"
168.5J2	102816	4351	10,57	5580	420	8'2"	3'6"	8'7'4"	15'1"-17'3"-21'3"
168.6	100569	4351	10,57	5247	420	8'2"	3'3"	7'6"	15'1"-17'3"-21'3"
168.7	96292	4351	10,57	5445	420	8'2"	3'4"	7'7"	15'1"-17'3"-21'3"



168.6



168.7



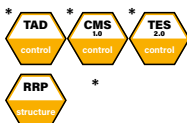
* Theoretical capacity at fixed hook

ESSENTIAL MODEL 170



standard

- control
- structure

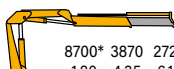


optional

- control
- easy use



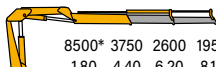
170.1 19180* 8530 6000 lbs
5'11" 14'3" 20'2" ft



8700* 3870 2720 kg
1,80 4,35 6,15 m

170.2 18740* 8270 5730 4300 lbs

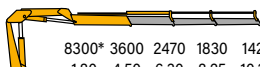
5'11" 14'5" 20'4" 26'9" ft



8500* 3750 2600 1950 kg
1,80 4,40 6,20 8,15 m

170.3 18300* 7940 5450 4030 3130 lbs

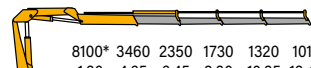
5'11" 14'9" 20'8" 27'1" 33'10" ft



8300* 3600 2470 1830 1420 kg
1,80 4,50 6,30 8,25 10,30 m

170.4 17855* 7630 5180 3810 2910 2230 lbs

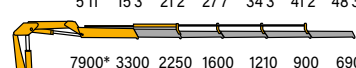
5'11" 14'11" 20'10" 27'3" 33'11" 40'10" ft



8100* 3460 2350 1730 1320 1010 kg
1,80 4,65 6,45 8,30 10,35 12,45 m

170.5 17415* 7280 4960 3530 2670 1980 1520 lbs

5'11" 15'3" 21'2" 27'7" 34'3" 41'2" 48'3" ft



7900* 3300 2250 1600 1210 900 690 kg
1,80 4,65 6,45 8,40 10,45 12,55 14,70 m

* Theoretical capacity at fixed hook



	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
170.1	168	300	40	1785	395	2486	831	2228	4555/5437
170.2	165	300	40	1985	395	2486	831	2228	4555/5437
170.3	162	300	40	2120	395	2486	834	2228	4555/5437
170.4	157	300	40	2250	395	2486	834	2228	4555/5437
170.5	153	300	40	2370	395	2486	920	2228	4555/5437



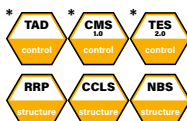
	lbs	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
170.1	121730	4349	10,5	3935	395	8'2"	2'9"	7'4"	14'11"/17'10"
170.2	119343	4349	10,5	4367	395	8'2"	2'9"	7'4"	14'11"/17'10"
170.3	117173	4349	10,5	4664	395	8'2"	2'9"	7'4"	14'11"/17'10"
170.4	113868	4349	10,5	4950	395	8'2"	2'9"	7'4"	14'11"/17'10"
170.5	110989	4349	10,5	5214	395	8'2"	3'0"	7'4"	14'11"/17'10"

ESSENTIAL MODEL 178



standard

- control
- structure



optional

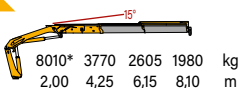
- control
- easy use



*CE version
* Only for CE version
○ Only in combination with CMS 2.0

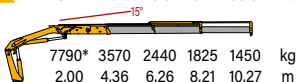
178.2

17660* 8310 5740 4370 lbs
6'7" 13'11" 20'2" 26'7" ft



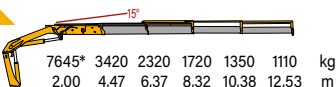
178.3

17170* 7870 5380 4020 3200 lbs
6'7" 14'4" 20'6" 26'11" 33'8" ft



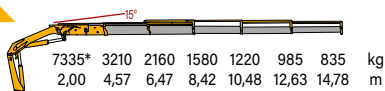
178.4

16850* 7540 5110 3790 2980 2450 lbs
6'7" 14'8" 20'11" 27'3" 34'1" 41'1" ft



178.5

16170* 7080 4760 3480 2690 2170 1840 lbs
6'7" 14'12" 21'3" 27'7" 34'4" 41'5" 48'6" ft



* Theoretical capacity at fixed hook

	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
178.2	157.3	300	40	1880	420	2500	880	2270	4600/5270/6500
178.3	152.9	300	40	2000	420	2500	880	2270	4600/5270/6500
178.4	150	300	40	2110	420	2500	910	2270	4600/5270/6500
178.5	143,9	300	40	2215	420	2500	970	2270	4600/5270/6500

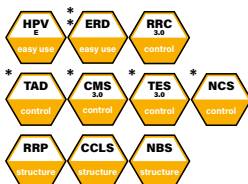
	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
178.2	115978	4641	13,21	4144	420	8'2"	2'10"	7'5"	15'1"-17'3"-21'3"
178.3	112734	4641	13,21	4409	420	8'2"	2'10"	7'5"	15'1"-17'3"-21'3"
178.4	110596	4641	13,21	4651	420	8'2"	3'	7'5"	15'1"-17'3"-21'3"
178.5	106098	4641	13,21	4883	420	8'2"	3'2"	7'5"	15'1"-17'3"-21'3"

HIGH POWER MODEL 188



standard

- easy use
- control
- structure



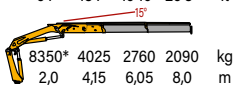
optional

- control
- easy use



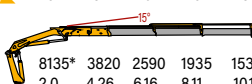
*CE version
- Only for CE version

188.2 18410* 8870 6085 4608 lbs
6'7" 13'7" 19'10" 26'3" ft



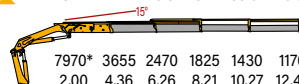
8350* 4025 2760 2090 kg
2,0 4,15 6,05 8,0 m

188.3 17930* 8420 5710 4270 3370 lbs
6'7" 13'12" 20'2" 26'7" ft



8135* 3820 2590 1935 1530 kg
2,0 4,26 6,16 8,11 10,17 m

188.4 17570* 8060 5450 4020 3150 2580 lbs
6'7" 14'4" 20'6" 26'11" 33'8" 40'9" ft

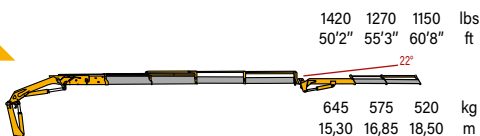


7970* 3655 2470 1825 1430 1170 kg
2,00 4,36 6,26 8,21 10,27 12,42 m

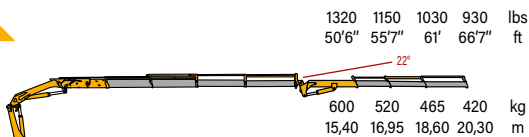
* Theoretical capacity at fixed hook

	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
188.2	163,9	325	60	1935	420	2500	880	2275	4600/5270/6500
188.3	159.5	325	60	2055	420	2500	880	2275	4600/5270/6500
188.4	156.6	325	60	2170	420	2500	915	2286	4600/5270/6500
188.4J2	156.6	325	60	2530	420	2500	1060	2640	4600/5270/6500
188.4J3	156.6	325	60	2595	420	2500	1060	2640	4600/5270/6500
188.4J4	156.6	325	60	2635	420	2500	1060	2640	4600/5270/6500
188.5	153.3	325	60	2280	420	2500	980	2275	4600/5270/6500
188.5J2	153.3	325	60	2535	420	2500	1060	2550	4600/5270/6500
188.6	150.9	325	60	2380	420	2500	1010	2275	4600/5270/6500
188.7	144.5	325	60	2470	420	2500	1010	2310	4600/5270/6500

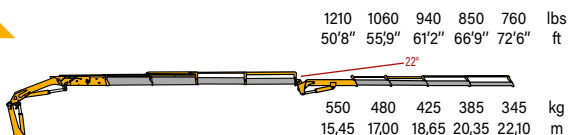
188.4J2



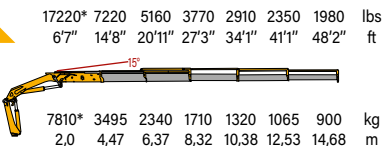
188.4J3



188.4J4



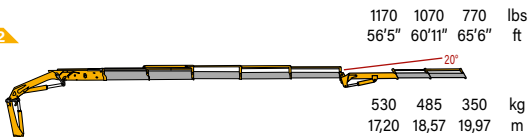
188.5



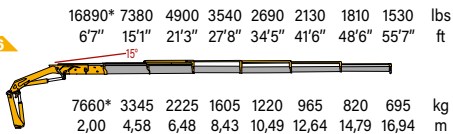
	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
188.2	120845	4713	15,85	4270	420	8'2"	2'12"	7'6"	15'1"-17'3"-21'3"
188.3	117600	4713	15,85	4530	420	8'2"	2'12"	7'6"	15'1"-17'3"-21'3"
188.4	115462	4713	15,85	4784	420	8'2"	3'0"	7'6"	15'1"-17'3"-21'3"
184.4J2	115462	4713	15,85	5580	420	8'2"	3'6"	8'8"	15'1"-17'3"-21'3"
184.4J3	115462	4713	15,85	5720	420	8'2"	3'6"	8'8"	15'1"-17'3"-21'3"
184.4J4	115462	4713	15,85	5810	420	8'2"	3'6"	8'8"	15'1"-17'3"-21'3"
188.5	113030	4713	15,85	5030	420	8'2"	3'0"	7'6"	15'1"-17'3"-21'3"
188.5J2	113030	4713	15,85	5590	420	8'2"	3'6"	7'6"	15'1"-17'3"-21'3"
188.6	111260	4713	15,85	5250	420	8'2"	3'3"	7'6"	15'1"-17'3"-21'3"
188.7	106541	4713	15,85	5445	420	8'2"	3'4"	7'7"	15'1"-17'3"-21'3"



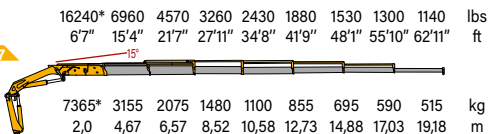
188.5J2



188.6



188.7



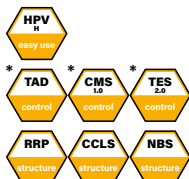
* Theoretical capacity at fixed hook

ESSENTIAL MODEL 198



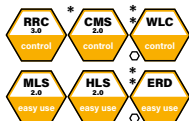
standard

- easy use
- control
- structure



optional

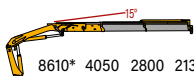
- control
- easy use



*CE version
* Only for CE version
○ Only in combination with CMS 2.0

198.2

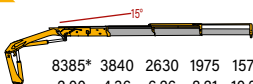
18980* 8930 6170 4700 lbs
6'7" 13'11" 20'2" 26'7" ft



8610* 4050 2800 2130 kg
2,00 4,25 6,15 8,10 m

198.3

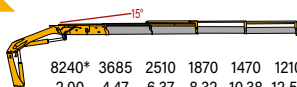
18490* 8470 5800 4350 3460 lbs
6'7" 14'4" 20'6" 26'11" 33'8" ft



8385* 3840 2630 1975 1570 kg
2,00 4,36 6,26 8,21 10,27 m

198.4

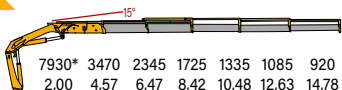
18170* 8120 5530 4120 3240 2670 lbs
6'7" 14'8" 20'11" 27'3" 34'4" 41'1" ft



8240* 3685 2510 1870 1470 1210 kg
2,00 4,47 6,37 8,32 10,38 12,53 m

198.5

17480* 7650 5170 3800 2940 2390 2030 lbs
6'7" 14'12" 21'3" 27'7" 34'4" 41'5" 48'6" ft



7930* 3470 2345 1725 1335 1085 920 kg
2,00 4,57 6,47 8,42 10,48 12,63 14,78 m

* Theoretical capacity at fixed hook

	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
198.2	169	320	50	1880	420	2500	880	2270	4600/5270/6500
198.3	164,5	320	50	2000	420	2500	880	2270	4600/5270/6500
198.4	161,7	320	50	2110	420	2500	910	2270	4600/5270/6500
198.5	155,6	315	50	2215	420	2500	970	2270	4600/5270/6500

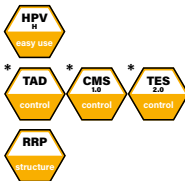
	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
198.2	124752	4641	13,21	4144	420	8'2"	2'10"	7'5"	15'1"-17'3"-21'3"
198.3	121287	4641	13,21	4409	420	8'2"	2'10"	7'5"	15'1"-17'3"-21'3"
198.4	119222	4641	13,21	4651	420	8'2"	3'	7'5"	15'1"-17'3"-21'3"
198.5	114725	4568	13,21	4883	420	8'2"	3'2"	7'5"	15'1"-17'3"-21'3"

ESSENTIAL MODEL 200



standard

- easy use
- control
- structure



optional

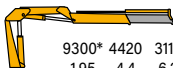
- control
- easy use



*CE version

200.1

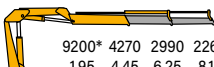
20500* 9740 6870 lbs
6'5" 14'5" 20'4" ft



9300* 4420 3115 kg
1,95 4,4 6,2 m

200.2

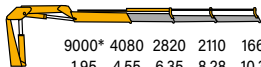
20280* 9410 6590 4980 lbs
6'5" 14'7" 20'6" 26'10" ft



9200* 4270 2990 2260 kg
1,95 4,45 6,25 8,18 m

200.3

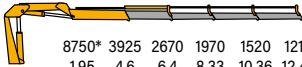
19840* 8990 6220 4650 3660 lbs
6'5" 14'11" 20'10" 27'2" 33'10" ft



9000* 4080 2820 2110 1660 kg
1,95 4,55 6,35 8,28 10,32 m

200.4

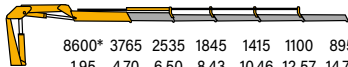
19290* 8650 5870 4340 3350 2680 lbs
6'5" 15'1" 21'0" 27'4" 34'0" 40'11" ft



8750* 3925 2670 1970 1520 1215 kg
1,95 4,6 6,4 8,33 10,36 12,47 m

200.5

18920* 8283 5577 4059 3113 2420 1969 lbs
6'5" 15'5" 21'4" 27'8" 34'4" 41'3" 48'4" ft



8600* 3765 2535 1845 1415 1100 895 kg
1,95 4,70 6,50 8,43 10,46 12,57 14,73 m

* Theoretical capacity at fixed hook



	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
200.1	191	300	40	1960	395	2486	860	2228	4555/5437
200.2	186,5	300	40	2090	395	2486	860	2228	4555/5437
200.3	182	300	40	2220	395	2486	860	2228	4555/5437
200.4	177	300	40	2350	395	2486	860	2228	4555/5437
200.5	174	300	40	2480	395	2486	956	2228	4555/5437



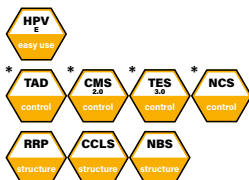
	lbs	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
200.1	140636	4349	10,5	4321	395	8'2"	2'10"	7'4"	14'11"/17'10"
200.2	137459	4349	10,5	4610	395	8'2"	2'10"	7'4"	14'11"/17'10"
200.3	134046	4349	10,5	4894	395	8'2"	2'10"	7'4"	14'11"/17'10"
200.4	130684	4349	10,5	5182	395	8'2"	2'10"	7'4"	14'11"/17'10"
200.5	125854	4349	10,5	5456	395	8'2"	3'1"	7'4"	14'11"/17'10"

HIGH POWER MODEL 208



standard

- easy use
- control
- structure



optional

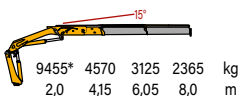
- control
- easy use



*CE version
* Only for CE version

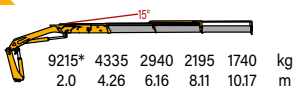
208.2

20840* 10080 6890 5210 lbs
6'7" 13'7" 19'10" 26'3" ft



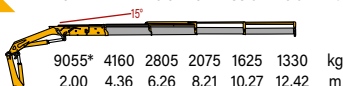
208.3

20320* 9560 6480 4840 3840 lbs
6'7" 13'12" 20'2" 26'7" 33'4" ft



208.4

19960* 9170 6180 4570 3580 2930 lbs
6'7" 14'4" 20'6" 26'11" 33'8" 40'9" ft

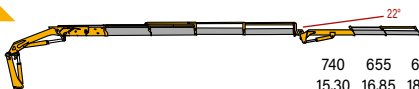


* Theoretical capacity at fixed hook

	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
208.2	185,5	325	50	2220	420	2500	904	2275	5270/6500
208.3	180,8	325	50	2360	420	2500	904	2275	5270/6500
208.4	177,7	325	50	2490	420	2500	935	2275	5270/6500
208.4j2	177,7	325	50	2850	420	2500	1084	2640	5270/6500
208.4j3	177,7	325	50	2910	420	2500	1084	2640	5270/6500
208.4j4	177,7	325	50	2955	420	2500	1084	2640	5270/6500
208.5	174	325	50	2610	420	2500	1000	2275	5270/6500
208.5j2	174	325	50	2980	420	2500	1084	2640	5270/6500
208.5j3	174	325	50	3040	420	2500	1084	2640	5270/6500
208.5j4	174	325	50	3085	420	2500	1084	2640	5270/6500
208.6	170,9	325	50	2710	420	2500	1030	2275	5270/6500
208.6j2	170,9	325	50	3015	420	2500	1170	2620	5270/6500
208.7	164,4	325	50	2810	420	2500	1030	2310	5270/6500



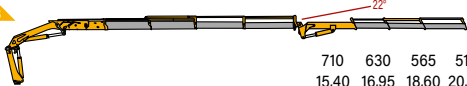
208.4J2



1630 1440 1320 lbs
50'2" 55'7" 60'8" ft

740 655 600 kg
15,30 16,85 18,50 m

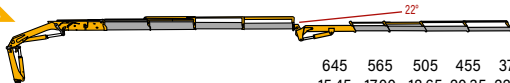
208.4J3



1570 1390 1250 1140 lbs
50'6" 55'7" 61' 66'7" ft

710 630 565 515 kg
15,40 16,95 18,60 20,30 m

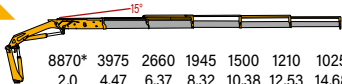
208.4J4



1420 1250 1110 1000 820 lbs
50'8" 55'9" 61'2" 66'9" 72'6" ft

645 565 505 455 370 kg
15,45 17,00 18,65 20,35 22,10 m

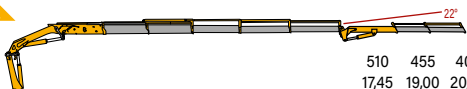
208.5



19550* 8760 5860 4290 3310 2670 2260 lbs
6'7" 14'8" 20'11" 27'3" 34'1" 41'1" 48'2" ft

8870* 3975 2660 1945 1500 1210 1025 kg
2,0 4,47 6,37 8,32 10,38 12,53 14,68 m

208.5J2

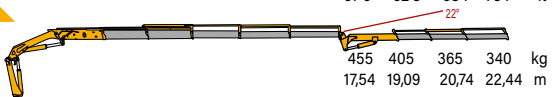


1120 1000 890 lbs
57'3" 62'4" 67'9" ft

510 455 405 kg
17,45 19,00 20,66 m

* Theoretical capacity at fixed hook

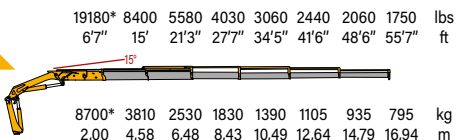
208.5J3



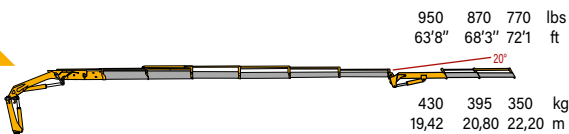
208.5J4



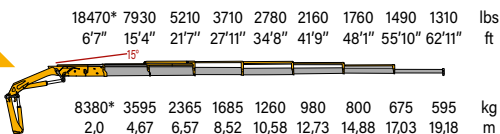
208.6



208.6J2



208.7



* Theoretical capacity at fixed hook

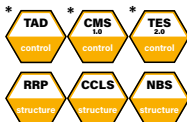
	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
208.2	136818	4713	13,21	4890	420	8'2"	3'0"	7'6"	17'3"-21'3"
208.3	133351	4713	13,21	5200	420	8'2"	3'0"	7'6"	17'3"-21'3"
208.4	131065	4713	13,21	5490	420	8'2"	3'1"	7'6"	17'3"-21'3"
208.4J2	131065	4713	13,21	6280	420	8'2"	3'7"	8'8"	17'3"-21'3"
208.4J3	131065	4713	13,21	6420	420	8'2"	3'7"	8'8"	17'3"-21'3"
208.4J4	131065	4713	13,21	6510	420	8'2"	3'7"	8'8"	17'3"-21'3"
208.5	128336	4713	13,21	5750	420	8'2"	3'3"	7'6"	17'3"-21'3"
208.5J2	128336	4713	13,21	6570	420	8'2"	3'7"	8'8"	17'3"-21'3"
208.5J3	128336	4713	13,21	6700	420	8'2"	3'7"	8'8"	17'3"-21'3"
208.5J4	128336	4713	13,21	6800	420	8'2"	3'7"	8'8"	17'3"-21'3"
208.6	125902	4713	13,21	5970	420	8'2"	3'5"	7'6"	17'3"-21'3"
208.6j2	125902	4713	13,21	6650	420	8'2"	3'10"	8'7"	17'3"-21'3"
208.7	106541	4713	13,21	6190	420	8'2"	3'5"	7'7"	17'3"-21'3"

ESSENTIAL MODEL 218



standard

- control
- structure



optional

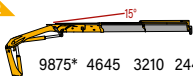
- control
- easy use



*CE version
* Only for CE version
○ Only in combination with CMS 2.0

21770* 10240 7080 5380 lbs
6'7" 13'11" 20'2" 26'7" ft

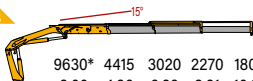
218.2



9875* 4645 3210 2440 kg
2,00 4,25 6,15 8,10 m

18490* 8470 5800 4350 3460 lbs
6'7" 14'4" 20'6" 26'11" 33'8" ft

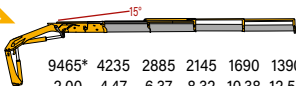
218.3



9630* 4415 3020 2270 1800 kg
2,00 4,36 6,26 8,21 10,27 m

20870* 9340 6360 4730 3730 3060 lbs
6'7" 14'8" 20'11" 27'3" 34'1" 41'1" ft

218.4



9465* 4235 2885 2145 1690 1390 kg
2,00 4,47 6,37 8,32 10,38 12,53 m

* Theoretical capacity at fixed hook

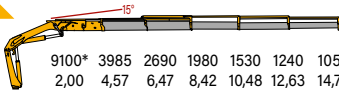


	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
218.2	193.9	320	50	2160	420	2500	895	2270	5270/6500
218.3	188.9	320	50	2290	420	2500	895	2270	5270/6500
218.4	185.6	320	50	2420	420	2500	925	2270	5270/6500
218.5	178.6	320	50	2540	420	2500	985	2270	5270/6500
218.6	165.6	320	50	2640	420	2500	985	2270	5270/6500



20060* 8790 5930 4370 3370 2730 2310 lbs
 6'7" 14'12" 21'3" 27'7" 34'4" 41'5" 48'6" ft

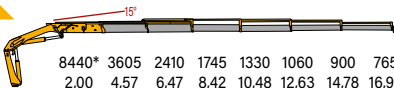
218.5



9100* 3985 2690 1980 1530 1240 1050 kg
 2,00 4,57 6,47 8,42 10,48 12,63 14,78 m

18610* 7950 5310 3850 2930 2340 1980 1690 lbs
 6'7" 14'12" 21'3" 27'7" 34'4" 41'5" 48'6" 55'7" ft

218.6



8440* 3605 2410 1745 1330 1060 900 765 kg
 2,00 4,57 6,47 8,42 10,48 12,63 14,78 16,93 m

*Theoretical capacity at fixed hook



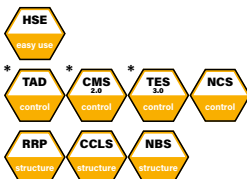
	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
218.2	142964	4641	13,21	4761	420	8'2"	2'11"	7'5"	17'3"-21'3"
218.3	139277	4641	13,21	5048	420	8'2"	2'11"	7'5"	17'3"-21'3"
218.4	136844	4641	13,21	5335	420	8'2"	3'	7'5"	17'3"-21'3"
218.5	131683	4641	13,21	5599	420	8'2"	3'3"	7'5"	17'3"-21'3"
218.6	122140	4641	13,21	5820	420	8'2"	3'3"	7'5"	17'3"-21'3"

HIGH POWER MODEL 220



standard

- easy use
- control
- structure



optional

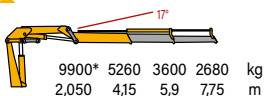
- control
- easy use



*CE version
*Only for CE version

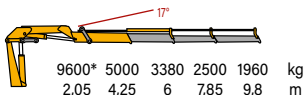
220.2

21830* 11600 7940 5910 lbs
6'1" 13'7" 19'4" 25'5" ft



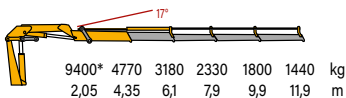
220.3

21160* 11020 7450 5510 4320 lbs
6'9" 13'11" 19'8" 25'9" 32'2" ft



220.4

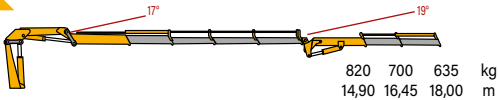
20720*10520 7010 5140 3970 1440 lbs
6'7" 14'3" 20" 26'1" 32'5" 39'2" ft



*Theoretical capacity at fixed hook

	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
220.2	214	280	40	2870	400	2540	1150	2190	5200/6400
220.3	208,5	280	40	3024	400	2540	1190	2190	5200/6400
220.4	203,6	280	40	3170	400	2540	1190	2190	5200/6400
220.4J2	203,6	280	40	3530	400	2540	1332	2610	5200/6400
220.4J3	203,6	280	40	3606	400	2540	1332	2610	5200/6400
220.4J4	203,6	280	40	3765	400	2540	1332	2610	5200/6400
220.5	197,82	280	40	3310	400	2540	1190	2190	5200/6400
220.5J3	197,82	280	40	3746	400	2540	1330	2470	5200/6400
220.5J4	197,82	280	40	3790	400	2540	1330	2470	5200/6400
220.6	192,44	280	40	3430	400	2540	1190	2190	5200/6400
220.6J3	192,44	280	40	3866	400	2540	1330	2470	5200/6400
220.7	188,45	280	40	3532	400	2540	1190	2230	5200/6400

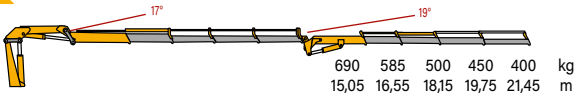
220.4J2



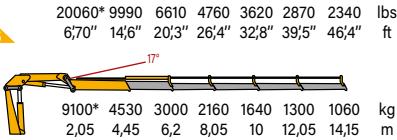
220.4J3



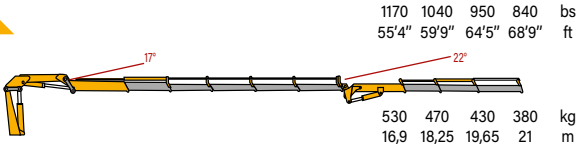
220.4J4



220.5



220.5J3

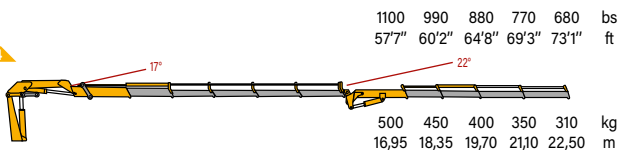


* Theoretical capacity at fixed hook

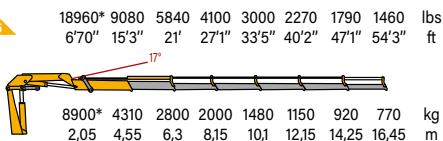
	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
220.2	154889	4060	10,5	6330	400	8'4"	3'9"	7'2"	16'11" / 21'0"
220.3	150781	4060	10,5	6720	400	8'4"	3'11"	7'2"	16'11" / 21'0"
220.4	147780	4060	10,5	6990	400	8'4"	3'11"	7'2"	16'11" / 21'0"
220.4J2	147780	4060	10,5	7780	400	8'4"	4'4"	8'7"	16'11" / 21'0"
220.4J3	147780	4060	10,5	7950	400	8'4"	4'4"	8'7"	16'11" / 21'0"
220.4J4	147780	4060	10,5	8300	400	8'4"	4'4"	8'7"	16'11" / 21'0"
220.5	143571	4060	10,5	7300	400	8'4"	3'11"	7'2"	16'11" / 21'0"
220.5J3	143571	4060	10,5	8260	400	8'4"	4'4"	8'1"	16'11" / 21'0"
220.5J4	143571	4060	10,5	8360	400	8'4"	4'4"	8'1"	16'11" / 21'0"
220.6	139670	4060	10,5	7560	400	8'4"	3'11"	7'2"	16'11" / 21'0"
220.6j3	139670	4060	10,5	8520	400	8'4"	4'4"	8'1"	16'11" / 21'0"
220.7	136780	4060	10,5	7790	400	8'4"	3'11"	7'4"	16'11" / 21'0"



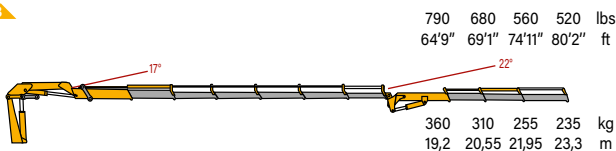
220.514



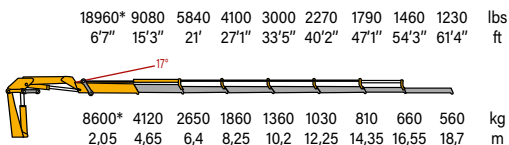
220.6



220.613



220.7



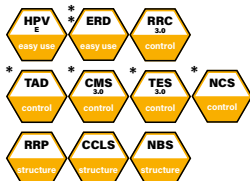
* Theoretical capacity at fixed hook

HIGH POWER MODEL 228



standard

- easy use
- control
- structure



optional

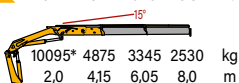
- control
- easy use



*CE version
*Only for CE version

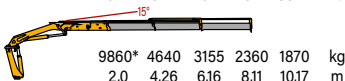
228.2

22260*10750 7370 5580 lbs
6'7" 13'7" 19'10" 26'3" ft



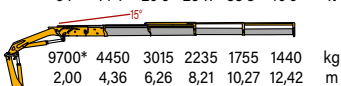
228.3

21740*10230 6960 5200 4120 lbs
6'7" 13'12" 20'2" 26'7" 33'4" ft



228.4

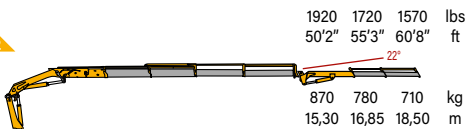
21380* 9810 6650 4930 3870 3170 lbs
6'7" 14'4" 20'6" 26'11" 33'8" 40'9" ft



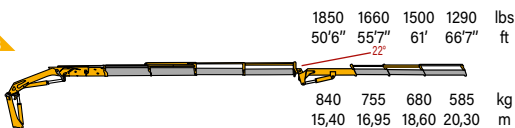
*Theoretical capacity at fixed hook

	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	2610	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	1010	2310	5270/6500

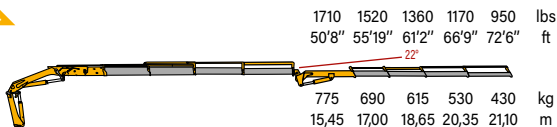
228.4J2



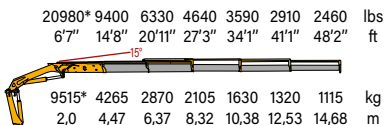
228.4J3



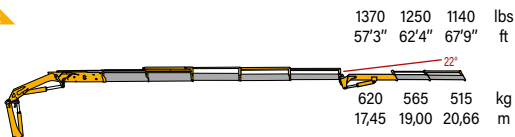
228.4J4



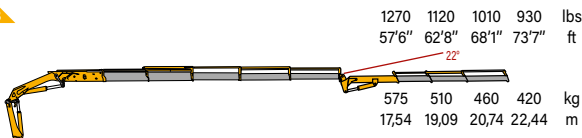
228.5



228.5J2



228.5J3



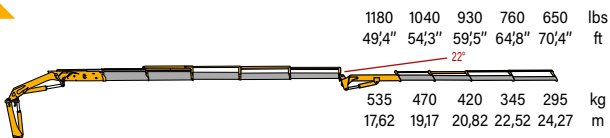
* Theoretical capacity at fixed hook



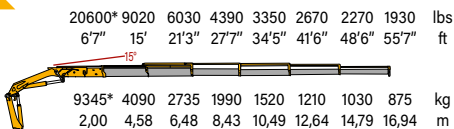
	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
228.2	146406	5003	17,17	4890	420	8'2"	3'1"	7'6"	17'3"-21'3"
228.3	142349	5003	17,17	5200	420	8'2"	3'1"	7'6"	17'3"-21'3"
228.4	140317	5003	17,17	5490	420	8'2"	3'1"	7'8"	17'3"-21'3"
228.4J2	140317	5003	17,17	6290	420	8'2"	3'7"	8'8"	17'3"-21'3"
228.4J3	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	5754	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"	7'8"	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"	3'4"	7'7"	17'3"-21'3"



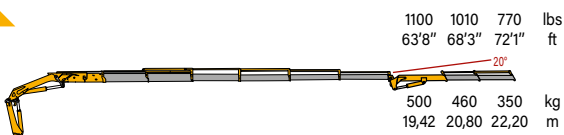
228.5J4



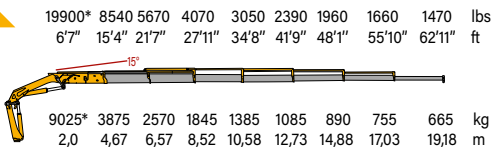
228.6



228.6J2



228.7



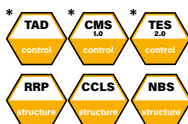
* Theoretical capacity at fixed hook

ESSENTIAL MODEL 238



standard

- control
- structure



optional

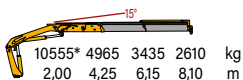
- control
- easy use



*CE version
 *Only for CE version
 ○ Only in combination with CMS 2.0

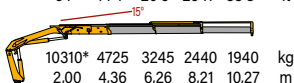
238.2

23270* 10950 7570 5750 lbs
 6'7" 13'11" 20'2" 26'7" ft



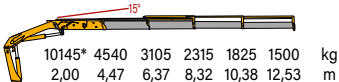
238.3

22730* 10420 7150 5380 4280 lbs
 6'7" 14'4" 20'6" 26'11" 33'8" ft



238.4

22370* 10010 6850 5100 4020 3310 lbs
 6'7" 14'8" 20'11" 27'3" 34'1" 41'1" ft



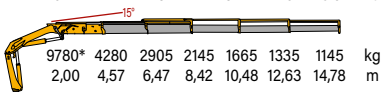
* Theoretical capacity at fixed hook

	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
238.2	207,7	340	65	2160	420	2500	895	2270	5270/6500
238.3	202,2	340	65	2290	420	2500	895	2270	5270/6500
238.4	198,9	340	65	2420	420	2500	925	2270	5270/6500
238.5	192	340	65	2540	420	2500	985	2270	5270/6500
238.6	178,9	340	65	2640	420	2500	985	2270	5270/6500



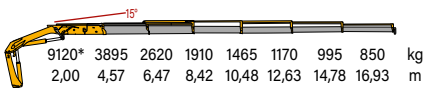
238.5

21560* 9440 6400 4730 3670 2730 2520 lbs
6'7" 14'12" 21'3" 27'7" 34'4" 41'5" 48'6" ft












238.6

20110* 8590 5780 4210 3230 2580 2190 1870 lbs
6'7" 14'12" 21'3" 27'7" 34'4" 41'5" 48'6" 55'7" ft



* Theoretical capacity at fixed hook

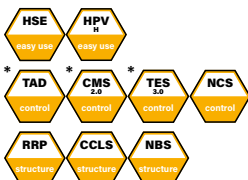
									
	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
238.2	153139	4931	17,17	4762	420	8'2"	2'11"	7'5"	17'3"-21'3"
238.3	149084	4931	17,17	5048	420	8'2"	2'11"	7'5"	17'3"-21'3"
238.4	146650	4931	17,17	5335	420	8'2"	3'	7'5"	17'3"-21'3"
238.5	141563	4931	17,17	5599	420	8'2"	3'3"	7'5"	17'3"-21'3"
238.6	131972	4931	17,17	5820	420	8'2"	3'3"	7'5"	17'3"-21'3"

HIGH POWER MODEL 240



standard

- easy use
- control
- structure



optional

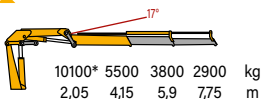
- control
- easy use



*CE version
* Only for CE version

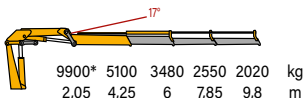
240.2

22270* 12130 8380 6390 lbs
6'9" 13'7" 19'4" 25'5" ft



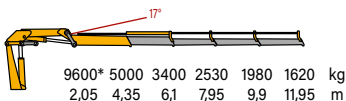
240.3

21830* 11240 7670 5620 4453 lbs
6'9" 13'11" 19'8" 25'9" 32'2" ft



240.4

21160* 11020 7500 5580 4370 3570 lbs
6'7" 14'3" 20' 26'1" 32'5" 39'2" ft

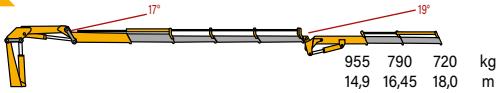


* Theoretical capacity at fixed hook

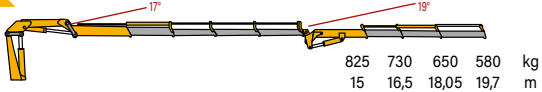


	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
240.2	224	280	40	2885	400	2540	1150	2190	5200/6400
240.3	219	280	40	3039	400	2540	1190	2190	5200/6400
240.4	213	280	40	3185	400	2540	1190	2190	5200/6400
240.4J2	213	280	40	3545	400	2540	1332	2610	5200/6400
240.4J3	213	280	40	3621	400	2540	1332	2610	5200/6400
240.4J4	213	280	40	3780	400	2540	1332	2610	5200/6400
240.5	207	280	40	3325	400	2540	1190	2190	5200/6400
240.5J3	207	280	40	3761	400	2540	1330	2470	5200/6400
240.5J4	207	280	40	3805	400	2540	1330	2470	5200/6400
240.6	207	280	40	3445	400	2540	1190	2190	5200/6400
240.6J3	201	280	40	3881	400	2540	1330	2470	5200/6400
240.7	198	280	40	3547	400	2540	1190	2230	5145/6398

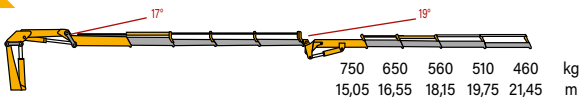
240.4J2



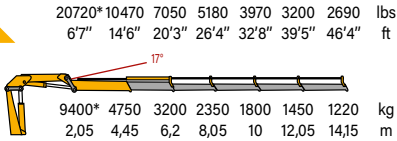
240.4J3



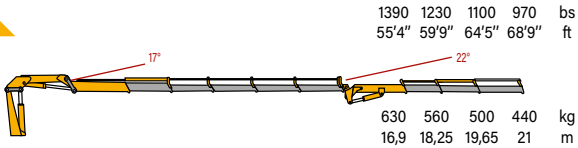
240.4J4



240.5



240.5J3

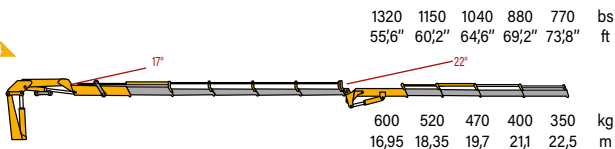


* Theoretical capacity at fixed hook

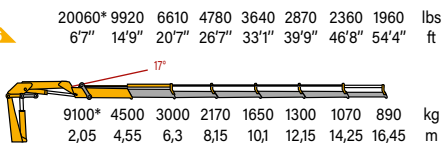
	lbs	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
240.2	161956	4060	10,5	6360	400	8'4"	3'9"	7'2"	16'11" / 21'0"
240.3	158320	4060	10,5	6700	400	8'4"	3'11"	7'2"	16'11" / 21'0"
240.4	154329	4060	10,5	7020	400	8'4"	3'11"	7'2"	16'11" / 21'0"
240.4J2	154329	4060	10,5	7820	400	8'4"	4'4"	8'7"	16'11" / 21'0"
240.4J3	154329	4060	10,5	7980	400	8'4"	4'4"	8'7"	16'11" / 21'0"
240.4J4	154329	4060	10,5	8330	400	8'4"	4'4"	8'7"	16'11" / 21'0"
240.5	149983	4060	10,5	7330	400	8'4"	3'11"	7'2"	16'11" / 21'0"
240.5J3	149983	4060	10,5	8300	400	8'4"	4'4"	8'1"	16'11" / 21'0"
240.5J4	149983	4060	10,5	8390	400	8'4"	4'4"	8'1"	16'11" / 21'0"
240.6	145282	4060	10,5	7590	400	8'4"	3'11"	7'2"	16'11" / 21'0"
240.6J3	145282	4060	10,5	8560	400	8'4"	4'4"	8'1"	16'11" / 21'0"
240.7	143526	4060	10,5	7820	400	8'4"	3'11"	7'4"	16'11" / 21'0"



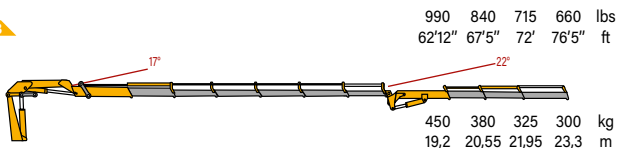
240.5J4



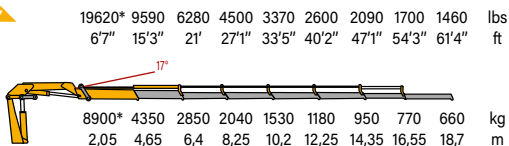
240.6



240.6J3



240.7



* Theoretical capacity at fixed hook

TOP RANGE MODEL 280B



standard

• easy use



• control



• structure



optional

• control



• easy use



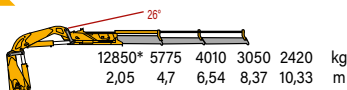
*CE version

- Only for CE version/600* for NO CE version

□ OPT. for NO CE version

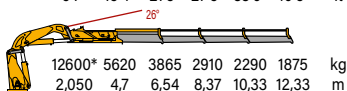
280B.3

28330* 12730 8840 6720 5340 lbs
6'9" 15'4" 21'5" 27'6" 33'11" ft



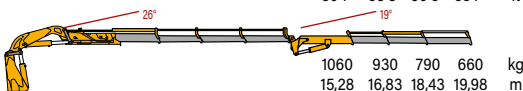
280B.4

27780* 12390 8520 6420 5050 4130 lbs
6'7" 15'4" 21'5" 27'5" 33'9" 40'5" ft



280B.4J3

2340 2050 1740 1460 lbs
50'1" 55'3" 60'6" 65'7" ft



*Theoretical capacity at fixed hook

600 for Extra E.C. market



	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
280B.3	261	305	50	3600	∞*	2540	1270	2330	5155/6400/7800
280B.4	259,1	305	50	3780	∞*	2540	1270	2330	5155/6400/7800
280B.4J3	259,1	305	50	4330	∞*	2540	1470	2620	5155/6400/7800
280B.4J4	259,1	305	50	4405	∞*	2540	1470	2620	5155/6400/7800
280B.5	253	305	50	3930	∞*	2540	1270	2330	5155/6400/7800
280B.5J3	253	305	50	4490	∞*	2540	1470	2620	5155/6400/7800
280B.5J4	253	305	50	4550	∞*	2540	1470	2620	5155/6400/7800
280B.6	253,4	305	50	4080	∞*	2540	1340	2330	5155/6400/7800
280B.6J2	253,4	305	50	4580	∞*	2540	1470	2630	5155/6400/7800
280B.6J3	253,4	305	50	4640	∞*	2540	1470	2630	5155/6400/7800
280B.6J4	253,4	305	50	4700	∞*	2540	1470	2630	5155/6400/7800
280B.7	243	305	50	4205	∞*	2540	1360	2330	5155/6400/7800
280B.8	239	305	50	4330	∞*	2540	1370	2330	5155/6400/7800

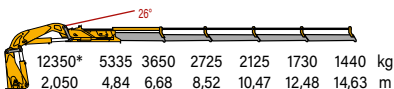
280B.4J4

2230 1940 1630 1340 1150 lbs
50'3" 55'4" 60'7" 65'8" 71'22" ft



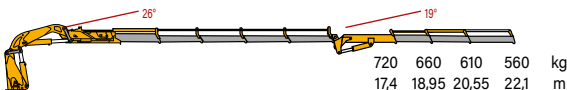
208B.5

27230* 11760 8050 6018 4680 3810 3170 lbs
6'7" 15'11" 21'11" 28' 34'4" 40'11" 48' ft



280B.5J3

1590 1460 1340 1230 lbs
57'1" 62'2" 67'5" 72'6" ft



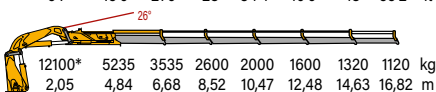
280B.5J4

1480 1340 1230 1120 1040 lbs
57'4" 62'5" 67'8" 72'7" 78'2" ft



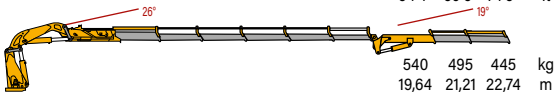
280B.6

26600* 11540 7790 5730 4410 3530 2910 2470 lbs
6'7" 15'9" 21'9" 28' 34'4" 40'9" 48' 55'2" ft



280B.6J2

1190 1090 900 lbs
64'4" 69'6" 74'6" ft



* Theoretical capacity at fixed hook

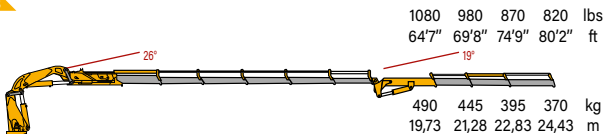
600 for Extra E.C. market



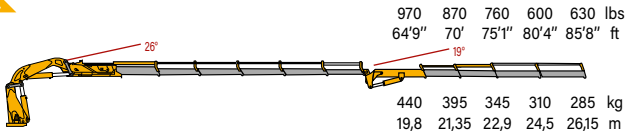
	lbs	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
280B.3	188590	4423	13,1	7940	∞*	8'4"	4'2"	7'8"	16'1"/21'1"/25'7"
280B.4	187000	4423	13,1	8330	∞*	8'4"	4'2"	7'8"	16'1"/21'1"/25'7"
280B.4J3	187000	4423	13,1	9550	∞*	8'4"	4'10"	8'7"	16'1"/21'1"/25'7"
280B.4J4	187000	4423	13,1	9710	∞*	8'4"	4'10"	8'7"	16'1"/21'1"/25'7"
280B.5	183217	4423	13,1	8660	∞*	8'4"	4'2"	7'8"	16'1"/21'1"/25'7"
280B.5J3	183217	4423	13,1	9890	∞*	8'4"	4'10"	8'7"	16'1"/21'1"/25'7"
280B.5J4	183217	4423	13,1	10030	∞*	8'4"	4'10"	8'7"	16'1"/21'1"/25'7"
280B.6	183000	4423	13,1	8990	∞*	8'4"	4'5"	7'8"	16'1"/21'1"/25'7"
280B.6J2	183000	4423	13,1	10090	∞*	8'4"	4'10"	8'7"	16'1"/21'1"/25'7"
280B.6J3	183000	4423	13,1	10120	∞*	8'4"	4'10"	8'7"	16'1"/21'1"/25'7"
280B.6J4	183000	4423	13,1	10360	∞*	8'4"	4'10"	8'7"	16'1"/21'1"/25'7"
280B.7	175796	4423	13,1	9270	∞*	8'4"	4'6"	7'8"	16'1"/21'1"/25'7"
280B.8	176277	4423	13,1	9550	∞*	8'4"	4'6"	7'8"	16'1"/21'1"/25'7"



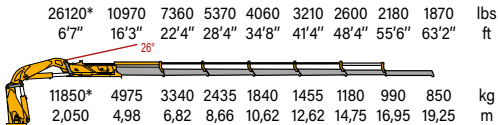
280B.6J3



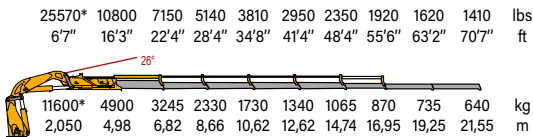
280B.6J4



280B.7



280B.8



* Theoretical capacity at fixed hook

TOP RANGE MODEL 300



standard

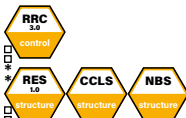
• easy use



• control



• structure



optional

• control



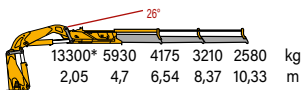
• easy use



*CE version
+ Only for CE version/600* for NO CE version
□ OPT. for NO CE version

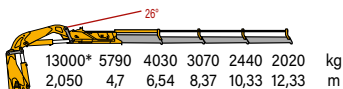
300.3

29320*13070 9200 7080 5690 lbs
6'9" 15'5" 21'5" 27'6" 33'11" ft



300.4

28660*12760 8880 6770 5380 4450 lbs
6'9" 15'5" 21'6" 27'6" 33'11" 40'5" ft



300.4J3

2780 2450 2070 1740 lbs
50'1" 55'3" 60'6" 65'7" ft



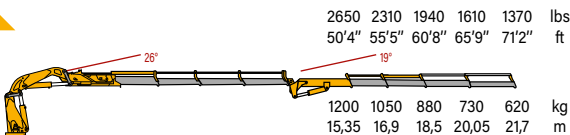
*Theoretical capacity at fixed hook

600 for Extra E.C. market

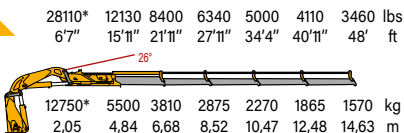


	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
300.3	273	310	50	3620	∞*	2540	1270	2330	5155/6425/7800
300.4	267	310	50	3800	∞*	2540	1270	2330	5155/6425/7800
300.4J3	267	310	50	4360	∞*	2540	1470	2620	5155/6425/7800
300.4J4	267	310	50	4420	∞*	2540	1470	2620	5155/6425/7800
300.5	261	310	50	3950	∞*	2540	1270	2330	5155/6425/7800
300.5J3	261	310	50	4510	∞*	2540	1470	2620	5155/6425/7800
300.5J4	261	310	50	4570	∞*	2540	1470	2620	5155/6425/7800
300.6	256	310	50	4100	∞*	2540	1340	2330	5155/6425/7800
300.6J2	256	310	50	4600	∞*	2540	1470	2630	5155/6425/7800
300.6J3	256	310	50	4660	∞*	2540	1470	2630	5155/6425/7800
300.6J4	256	310	50	4720	∞*	2540	1470	2630	5155/6425/7800
300.7	251	310	50	4225	∞*	2540	1360	2330	5155/6425/7800
300.8	247	310	50	4350	∞*	2540	1370	2330	5155/6425/7800

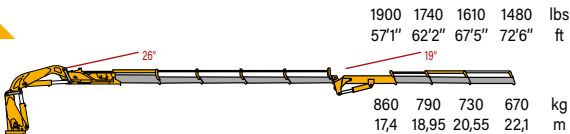
300.4J4



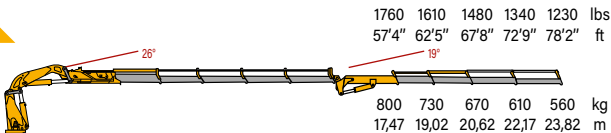
300.5



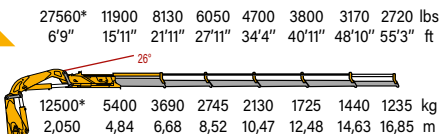
300.5J3



300.5J4



300.6



* Theoretical capacity at fixed hook

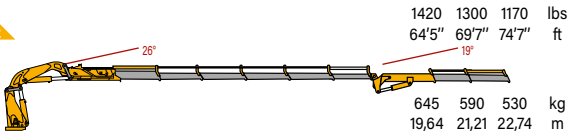
*600° for Extra E.C. market



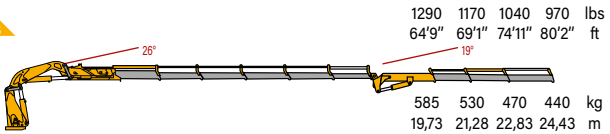
	lbs	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
300.3	18884	4495	13,1	7980	∞*	8'4"	4'2"	7'8"	16'1"/21'1"/25'7"
300.4	193000	4495	13,1	8377	∞*	8'4"	4'2"	7'8"	16'1"/21'1"/25'7"
300.4J3	193000	4495	13,1	9610	∞*	8'4"	4'10"	8'7"	16'1"/21'1"/25'7"
300.4J4	193000	4495	13,1	9750	∞*	8'4"	4'10"	8'7"	16'1"/21'1"/25'7"
300.5	192380	4495	13,1	8710	∞*	8'4"	4'2"	7'8"	16'1"/21'1"/25'7"
300.5J3	192380	4495	13,1	9940	∞*	8'4"	4'10"	8'7"	16'1"/21'1"/25'7"
300.5J4	192380	4495	13,1	10080	∞*	8'4"	4'10"	8'7"	16'1"/21'1"/25'7"
300.6	185000	4495	13,1	9040	∞*	8'4"	4'5"	7'8"	16'1"/21'1"/25'7"
300.6J2	185000	4495	13,1	10140	∞*	8'4"	4'10"	8'7"	16'1"/21'1"/25'7"
300.6J3	185000	4495	13,1	10270	∞*	8'4"	4'10"	8'7"	16'1"/21'1"/25'7"
300.6J4	185000	4495	13,1	10410	∞*	8'4"	4'10"	8'7"	16'1"/21'1"/25'7"
300.7	181626	4495	13,1	9295	∞*	8'4"	4'6"	7'8"	16'1"/21'1"/25'7"
300.8	179000	4495	13,1	9600	∞*	8'4"	4'6"	7'8"	16'1"/21'1"/25'7"



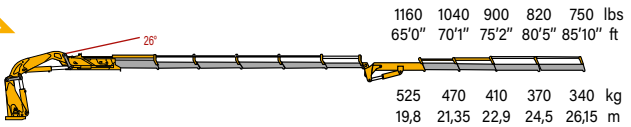
300.6J2



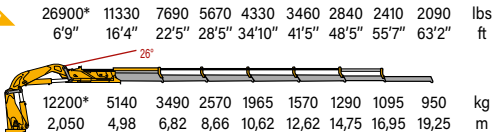
300.6J3



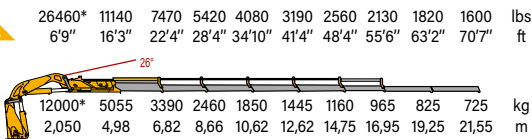
300.6J4



300.7



300.8



* Theoretical capacity at fixed hook

TOP RANGE MODEL 340



standard

• easy use



• control



• structure



optional

• control



• easy use



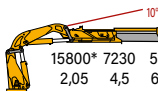
*CE version

+ Only for CE version/600° for NO CE version

□ OPT. for NO CE version

340.3

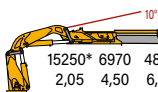
34830* 15940 11290 8580 6880 lbs
6'9" 14'9" 20'6" 26'7" 32'1" ft



15800* 7230 5120 3890 3120 kg
2,05 4,5 6,25 8,1 10,00 m

340.4

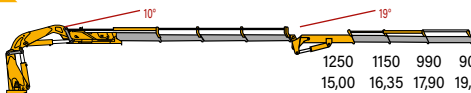
33620* 15370 10740 8070 6390 5220 lbs
6'9" 14'9" 20'6" 26'7" 32'10" 39'4" ft



15250* 6970 4870 3660 2900 2370 kg
2,05 4,50 6,25 8,10 10,00 12,00 m

340.4J3

2760 2540 2180 1980 lbs
49'2" 53'8" 58'9" 63'8" ft



1250 1150 990 900 kg
15,00 16,35 17,90 19,40 m

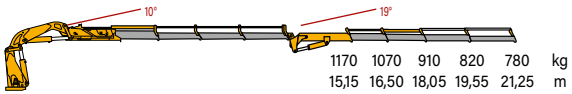
* Theoretical capacity at fixed hook

*600° for Extra E.C. market

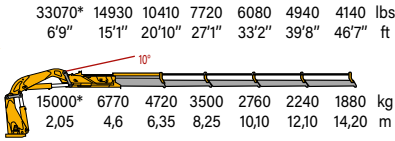


	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
340.3	319	290	60	3990	∞*	2540	1338	2354	6200/7800
340.4	307	290	60	4160	∞*	2540	1338	2355	6200/7800
340.4J3	307	290	60	4720	∞*	2540	1540	2640	6200/7800
340.4J4	307	290	60	4780	∞*	2540	1540	2640	6200/7800
340.5	305	290	60	4320	∞*	2540	1338	2355	6200/7800
340.5J3	305	290	60	4880	∞*	2540	1540	2640	6200/7800
340.5J4	305	290	60	4940	∞*	2540	1540	2640	6200/7800
340.6	297	290	60	4480	∞*	2540	1442	2355	6200/7800
340.6J2	297	290	60	4980	∞*	2540	1540	2696	6200/7800
340.6J3	297	290	60	5040	∞*	2540	1540	2696	6200/7800
340.6J4	297	290	60	5100	∞*	2540	1540	2696	6200/7800
340.7	295	290	60	4610	∞*	2540	1442	2355	6200/7800
340.8	281	290	60	4720	∞*	2540	1442	2355	6200/7800

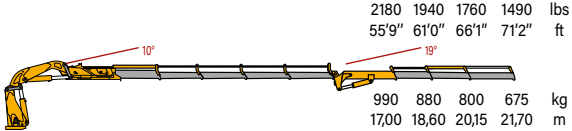
340.414



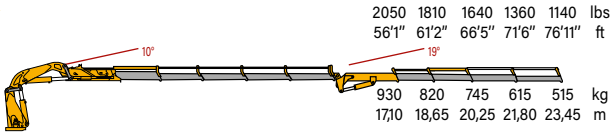
340.5



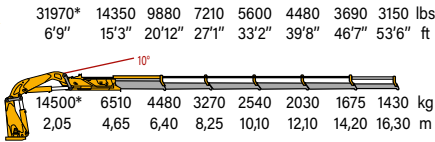
340.513



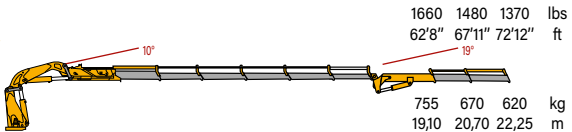
340.514



340.6



340.612



* Theoretical capacity at fixed hook

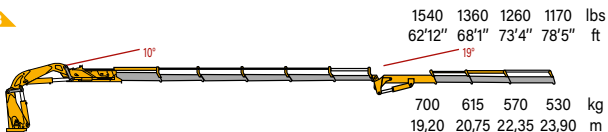
*600° for Extra E.C. market



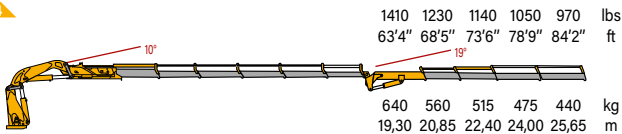
	lbs	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
340.3	230856	4205	15,8	8800	∞*	8'4"	4'9"	7'9"	20'5"/25'7"
340.4	230856	4205	15,8	9170	∞*	8'4"	4'9"	7'9"	20'5"/25'7"
340.4J3	230856	4205	15,8	10710	∞*	8'4"	5'1"	8'10"	20'5"/25'7"
340.4J4	230856	4205	15,8	10890	∞*	8'4"	5'1"	8'10"	20'5"/25'7"
340.5	220968	4205	15,8	9520	∞*	8'4"	4'9"	7'9"	20'5"/25'7"
340.5J3	220968	4205	15,8	10760	∞*	8'4"	5'1"	8'10"	20'5"/25'7"
340.5J4	220968	4205	15,8	10890	∞*	8'4"	5'1"	8'10"	20'5"/25'7"
340.6	219056	4205	15,8	9880	∞*	8'4"	4'9"	7'9"	20'5"/25'7"
340.6J2	219056	4205	15,8	10980	∞*	8'4"	5'1"	8'10"	20'5"/25'7"
340.6J3	219056	4205	15,8	11110	∞*	8'4"	5'1"	8'10"	20'5"/25'7"
340.6J4	219056	4205	15,8	11240	∞*	8'4"	5'1"	8'10"	20'5"/25'7"
340.7	217551	4205	15,8	10160	∞*	8'4"	4'9"	7'9"	20'5"/25'7"
340.8	211167	4205	15,8	10410	∞*	8'4"	4'9"	7'9"	20'5"/25'7"



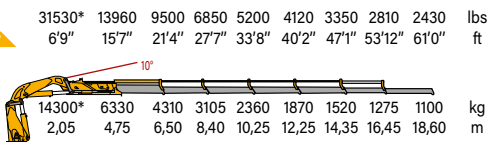
340.6J3



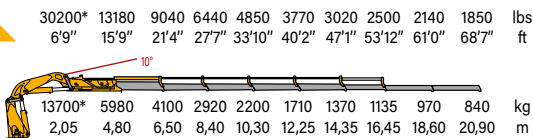
340.6J4



340,7



340.8



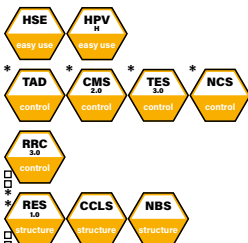
* Theoretical capacity at fixed hook

TOP RANGE MODEL 360



standard

- easy use
- control
- structure



optional

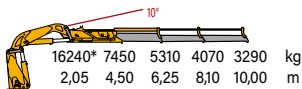
- control
- easy use



*CE version
 * Only for CE version/600* for NO CE version
 □ OPT. for NO CE version

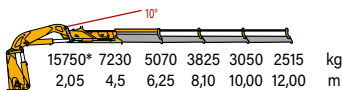
360.3

35800*16420 11710 8970 7250 lbs
 6'9" 14'9" 20'6" 26'7" 32'10" ft



360.4

34720*15940 11180 8430 6720 5540 lbs
 6'9" 14'9" 20'6" 26'7" 32'10" 39'4" ft



360.4J3

2950 2690 2380 2250 lbs
 49'2" 53'8" 58'9" 63'8" ft



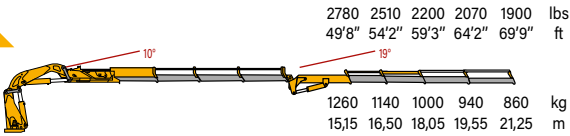
* Theoretical capacity at fixed hook

600 for Extra E.C. market

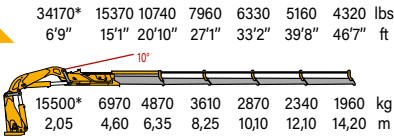


	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
360.3	328	300	60	3990	∞*	2540	1338	2354	6200/7800
360.4	319	300	60	4160	∞*	2540	1338	2354	6200/7800
360.4J3	319	300	60	4630	∞*	2540	1540	2640	6200/7800
360.4J4	319	300	60	4780	∞*	2540	1540	2640	6200/7800
360.5	314	300	60	4320	∞*	2540	1338	2354	6200/7800
360.5J3	314	300	60	4880	∞*	2540	1540	2640	6200/7800
360.5J4	314	300	60	4940	∞*	2540	1540	2640	6200/7800
360.6	307	300	60	4480	∞*	2540	1413	2354	6200/7800
360.6J2	307	300	60	4980	∞*	2540	1540	2696	6200/7800
360.6J3	307	300	60	5040	∞*	2540	1540	2696	6200/7800
360.6J4	307	300	60	5100	∞*	2540	1540	2696	6200/7800
360.7	304	300	60	4610	∞*	2540	1432	2354	6200/7800
360.8	292	300	60	4720	∞*	2540	1442	2354	6200/7800

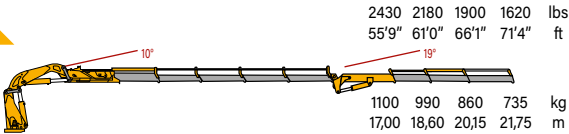
360.4J4



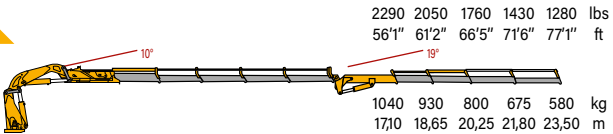
360.5



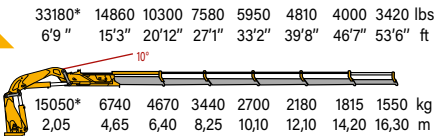
360.5J3



360.5J4



360.6



* Theoretical capacity at fixed hook

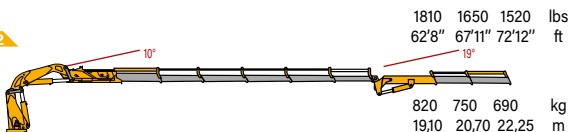
*600° for Extra E.C. market



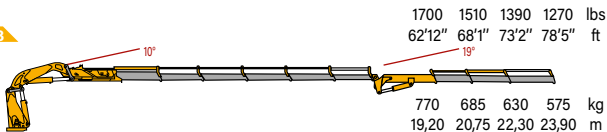
	lbs	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
360.3	237878	4350	15,8	8800	∞*	8'4"	4'5"	7'9"	20'5"/25'7"
360.4	230856	4350	15,8	9170	∞*	8'4"	4'5"	7'9"	20'5"/25'7"
360.4J3	230856	4350	15,8	10339	∞*	8'4"	5'1"	8'8"	20'5"/25'7"
360.4J4	230856	4350	15,8	10537	∞*	8'4"	5'1"	8'8"	20'5"/25'7"
360.5	227500	4350	15,8	9520	∞*	8'4"	4'5"	7'9"	20'5"/25'7"
360.5J3	220968	4350	15,8	10760	∞*	8'4"	5'1"	8'8"	20'5"/25'7"
360.5J4	220968	4350	15,8	10890	∞*	8'4"	5'1"	8'8"	20'5"/25'7"
360.6	222379	4350	15,8	9880	∞*	8'4"	4'8"	7'9"	20'5"/25'7"
360.6J2	222379	4350	15,8	10980	∞*	8'4"	5'1"	8'10"	20'5"/25'7"
360.6J3	222379	4350	15,8	11110	∞*	8'4"	5'1"	8'10"	20'5"/25'7"
360.6J4	222379	4350	15,8	11240	∞*	8'4"	5'1"	8'10"	20'5"/25'7"
360.7	222085	4350	15,8	10160	∞*	8'4"	4'8"	7'9"	20'5"/25'7"
360.8	211167	4350	15,8	10410	∞*	8'4"	4'9"	7'9"	20'5"/25'7"



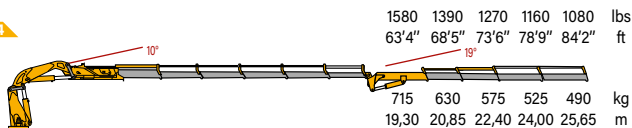
360.6J2



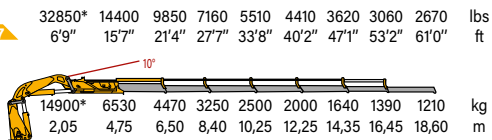
360.6J3



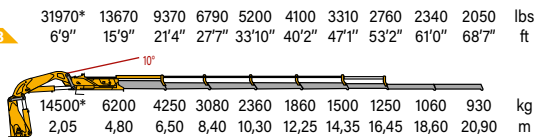
360.6I4



360.7



360.8



* Theoretical capacity at fixed hook

TOP RANGE MODEL 450



standard

• easy use



• control



• structure



optional

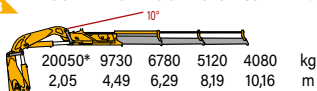
• control



*CE version
□OPT. for NO CE version

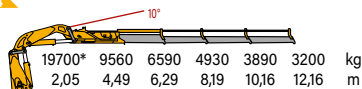
450.3

44200* 21450 14945 11285 8995 lbs
6'9" 14'9" 20'8" 26'10" 33'4" ft



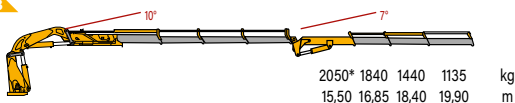
450.4

43430* 21075 14525 10865 8575 7055 lbs
6'9" 14'9" 20'8" 26'10" 33'4" 39'11" ft



450.4J3

4519 4057 3175 2502 lbs
50'9" 55'3" 60'4" 65'3" ft

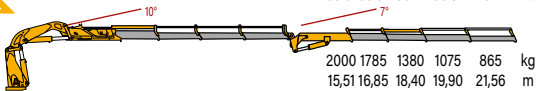


* Theoretical capacity at fixed hook

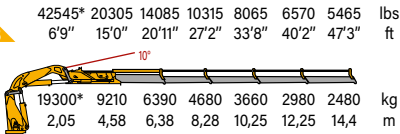


	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
450.3	428	320	70	4960	∞	2525	1329	2349	7800
450.4	421	320	70	5140	∞	2525	1329	2349	7800
450.4j3	421	320	70	5920	∞	2525	1650	2570	7800
450.4j4	421	320	70	6020	∞	2525	1650	2570	7800
450.5	413	320	70	5300	∞	2525	1345	2349	7800
450.5j3	413	320	70	6080	∞	2536	1570	2767	7800
450.5j4	413	320	70	6180	∞	2536	1570	2767	7800
450.6	407	320	70	5480	∞	2525	1422	2349	7800
450.6j3	407	320	70	6260	∞	2525	1570	2800	7800
450.6j4	407	320	70	6360	∞	2525	1570	2800	7800
450.7	402	320	70	5500	∞	2525	1451	2388	7800
450.7j3	402	320	70	6100	∞	2525	1701	2710	7800
450.7j4	402	320	70	6165	∞	2525	1701	2710	7800
450.8	396	320	70	5620	∞	2525	1451	2388	7800

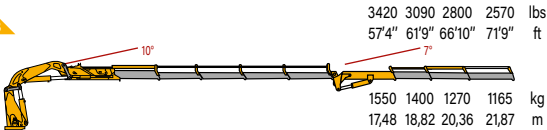
450.414



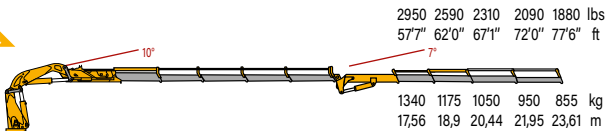
450.5



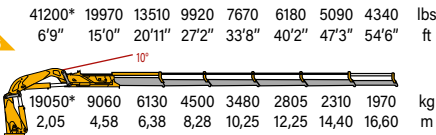
450.513



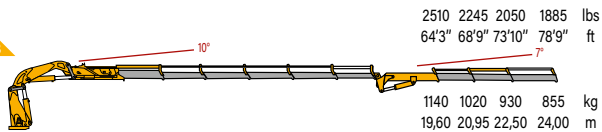
450.514



450.6



450.613

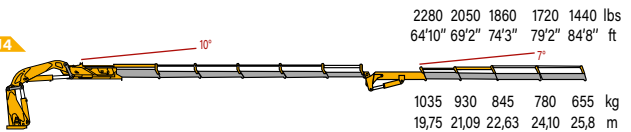


* Theoretical capacity at fixed hook

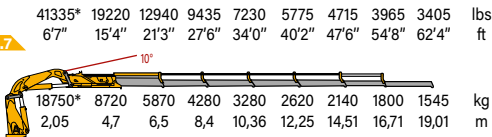
	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
450.3	315677	4640	18.4	10912	∞	8'3"	4'4"	7'8"	25'7"
450.4	310514	4640	18.4	11308	∞	8'3"	4'4"	7'8"	25'7"
450.4j3	310514	4640	18.4	13050	∞	8'3"	5'2"	7'8"	25'7"
450.4j4	310514	4640	18.4	13270	∞	8'3"	5'2"	8'5"	25'7"
450.5	304613	4640	18.4	11680	∞	8'3"	4'5"	7'8"	25'7"
450.5j3	304613	4640	18.4	13400	∞	8'3"	5'2"	7'8"	25'7"
450.5j4	304613	4640	18.4	13620	∞	8'3"	5'2"	7'8"	25'7"
450.6	300118	4640	18.4	12056	∞	8'3"	4'8"	7'8"	25'7"
450.6j3	300118	4640	18.4	13776	∞	8'3"	5'2"	7'8"	25'7"
450.6j4	300118	4640	18.4	13996	∞	8'3"	5'2"	7'8"	25'7"
450.7	296500	4640	18.4	12130	∞	8'3"	4'9"	7'10"	25'7"
450.7j3	296500	4640	18.4	13450	∞	8'3"	5'7"	8'11"	25'7"
450.7j4	296500	4640	18.4	13590	∞	8'3"	5'7"	8'11"	25'7"
450.8	292075	4640	18.4	12390	∞	8'3"	4'9"	7'10"	25'7"



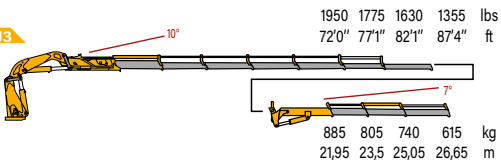
450.6J4



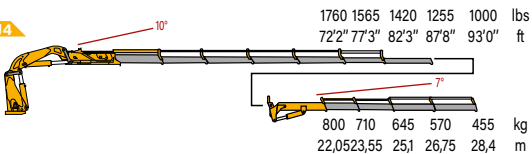
450.7



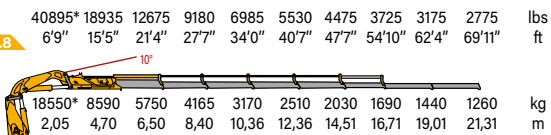
450.7J3



450.7J4



450.8



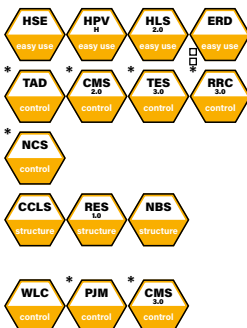
* Theoretical capacity at fixed hook

TOP RANGE MODEL 510



standard

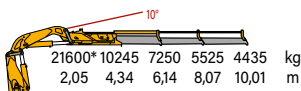
- easy use
- control
- structure



*CE version
□OPT. for NO CE version

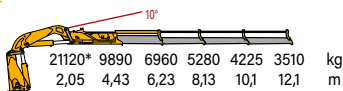
510.3

47520*22539 15950 12155 9757 lbs
6'7" 14'2" 20'1" 26'5" 32'8" ft



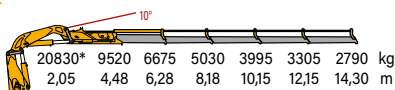
510.4

46570* 21810 15350 11640 9320 7740 lbs
6'9" 14'6" 20'5" 26'8" 33'2" 39'8" ft



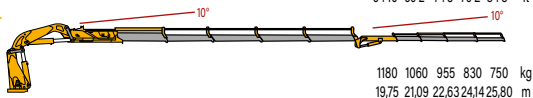
510.5

45826* 20944 14685 11066 8789 7271 6138 lbs
6'7" 14'7" 20'6" 26'8" 33'3" 39'9" 46'9" ft



510.6/4

2600 2340 2105 1830 1655 lbs
64'10" 69'2" 74'3" 79'2" 84'8" ft



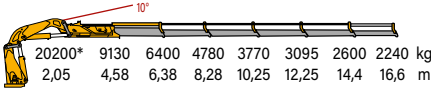
*Theoretical capacity at fixed hook



	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
510.3	437	330	70	4960	∞	2525	1329	2349	7800
510.4	429	330	70	5140	∞	2525	1329	2349	7800
510.5	418	330	70	5300	∞	2525	1345	2349	7800
510.5/4	418	330	70	6180	∞	2536	1570	2800	7800
510.6	411	330	70	5480	∞	2525	1437	2349	7800
510.6/4	411	330	70	6360	∞	2525	1570	2800	7800
510.7	410	330	70	5540	∞	2525	1451	2388	7800
510.7/3	410	330	70	6070	∞	2525	1710	2710	7800
510.7/4	410	330	70	6135	∞	2525	1710	2710	7800
510.8	402	320	70	5670	∞	2525	1451	2388	7800

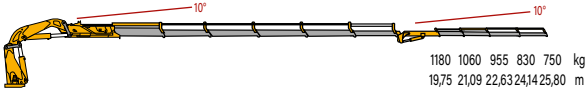
510.6

44540* 20130 14110 10540 8310 6825 5735 4940 lbs
6'9" 15'0" 20'11" 27'2" 33'8" 40'2" 47'3" 54'6" ft



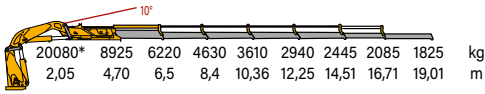
510.6J4

2600 2340 2105 1830 1655 lbs
64'10" 69'2" 74'3" 79'2" 84'8" ft



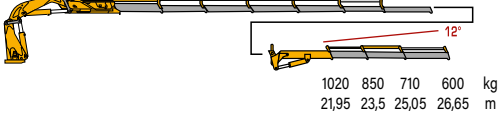
510.7

44176* 19635 13684 10186 7942 6468 5379 4587 4015 lbs
6'7" 15'4" 21'3" 27'6" 34'0" 40'2" 47'6" 54'8" 62'4" ft



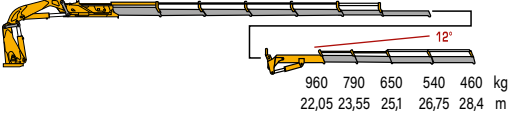
510.7J3

2250 1870 1570 1320 lbs
72'0" 77'1" 82'1" 87'5" ft



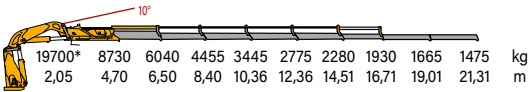
510.7J4

2110 1740 1430 1190 1010 lbs
72'2" 77'3" 82'3" 87'8" 93'0" ft



510.8

43440* 19250 13320 9825 7600 6120 5030 4255 3670 3255 lbs
6'9" 15'5" 21'4" 27'7" 33'12" 40'7" 47'7" 54'10" 62'4" 69'11" ft



* Theoretical capacity at fixed hook



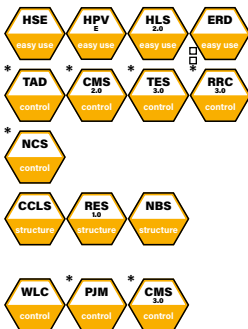
	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
510.3	316299	4785	18.4	10912	∞	8'3"	4'4"	7'8"	25'7"
510.4	310802	4785	18.4	11308	∞	8'3"	4'4"	7'8"	25'7"
510.5	302918	4785	18.4	11680	∞	8'3"	4'5"	7'8"	25'7"
510.5J4	302918	4785	18.4	13620	∞	8'3"	5'2"	9'1"	25'7"
510.6	297566	4785	18.4	12056	∞	8'3"	4'8"	7'8"	25'7"
510.6J4	297566	4785	18.4	13996	∞	8'3"	5'2"	7'8"	25'7"
510.7	296625	4785	18.4	12188	∞	8'3"	4'9"	7'10"	25'7"
510.7j3	296625	4785	18.4	13356	∞	8'3"	5'7"	8'11"	25'7"
510.7j4	296625	4785	18.4	13500	∞	8'3"	5'7"	8'11"	25'7"
510.8	291128	4640	18.4	12474	∞	8'3"	4'9"	7'10"	25'7"

TOP RANGE MODEL 530



standard

- easy use
- control
- structure



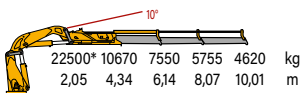
*CE version
□ OPT. for NO CE version

optional

- control

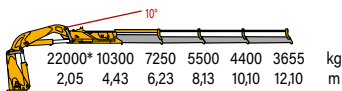
530.3

49500* 23474 16610 12661 10164 lbs
6'7" 14'2" 20'1" 26'5" 32'8" ft



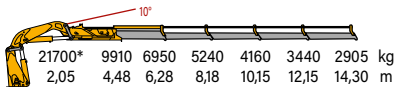
530.4

48500* 22710 15980 12130 9700 8060 lbs
6'9" 14'6" 20'5" 26'8" 33'2" 39'8" ft



530.5

47740* 21802 15290 11528 9152 7568 6391 lbs
6'7" 14'7" 20'6" 26'8" 33'3" 39'9" 46'9" ft



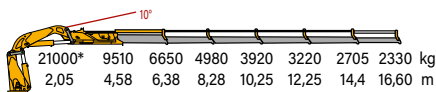
*Theoretical capacity at fixed hook



	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
530.3	455	330	70	4960	∞	2525	1329	2349	7800
530.4	447	330	70	5140	∞	2525	1329	2349	7800
530.5	435	330	70	5300	∞	2525	1345	2349	7800
530.6	427	330	70	5480	∞	2525	1437	2349	7800
530.6J4	427	330	70	6360	∞	2525	1701	2800	7800
530.7	424	330	70	5540	∞	2525	1451	2388	7800
530.7J3	424	330	70	6070	∞	2525	1701	2710	7800
530.7J4	424	330	70	6135	∞	2525	1701	2710	7800
530.8	415	330	70	5670	∞	2525	1451	2388	7800

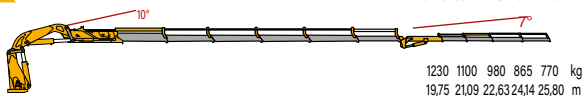
530.6

46300* 20970 14660 10980 8640 7100 5960 5140 lbs
6'9" 15'0" 20'11" 27'2" 33'8" 40'2" 47'3" 54'6" ft



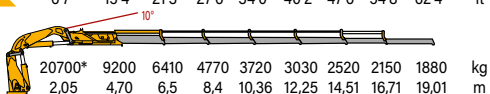
530.6J4

2710 2430 2160 1910 1700 lbs
64'10" 69'2" 74'3" 79'2" 84'8" ft



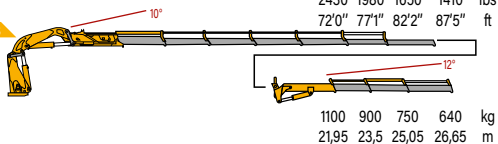
530.7

45540* 20240 14102 10494 8184 6666 5544 4730 4136 lbs
6'7" 15'4" 21'3" 27'6" 34'0" 40'2" 47'6" 54'8" 62'4" ft



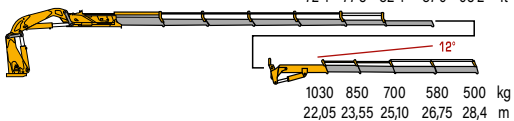
530.7J3

2430 1980 1650 1410 lbs
72'0" 77'1" 82'2" 87'5" ft



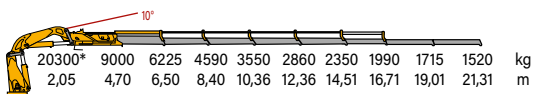
530.7J4

2270 1870 1540 1280 1100 lbs
72'4" 77'3" 82'4" 87'9" 93'2" ft



530.8

44750* 19840 13720 10120 7830 6310 5180 4390 3780 3350 lbs
6'9" 15'5" 21'4" 27'7" 34'0" 40'7" 47'7" 54'10" 62'4" 69'11" ft



* Theoretical capacity at fixed hook



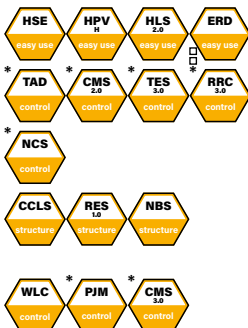
	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
530.3	329535	4857	18.4	10912	∞	8'3"	4'4"	7'8"	25'7"
530.4	323677	4857	18.4	11308	∞	8'3"	4'4"	7'8"	25'7"
530.5	315142	4857	18.4	11680	∞	8'3"	4'5"	7'8"	25'7"
530.6	308994	4857	18.4	12056	∞	8'3"	4'8"	7'8"	25'7"
530.6J4	297566	4857	18.4	13996	∞	8'3"	5'7"	7'8"	25'7"
530.7	306896	4857	18.4	12188	∞	8'3"	4'9"	7'10"	25'7"
530.7j3	296625	4857	18.4	13356	∞	8'3"	5'7"	8'11"	25'7"
530.7j4	296625	4857	18.4	13500	∞	8'3"	5'7"	8'11"	25'7"
530.8	300170	4857	18.4	12474	∞	8'3"	4'9"	7'10"	25'7"

TOP RANGE MODEL 630



standard

- easy use
- control
- structure



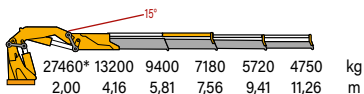
optional

- control

*CE version
□OPT. for NO CE version

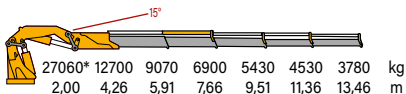
630.4

60540* 29100 20720 15830 12610 10470 lbs
6'7" 13'8" 19'1" 24'10" 30'10" 36'11" ft



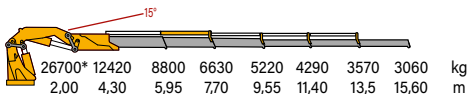
630.5

59660* 28000 20000 15210 11970 9990 8330 lbs
6'7" 14'0" 19'5" 25'2" 31'2" 37'3" 44'2" ft



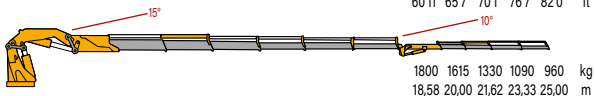
630.6

58860* 27380 19400 14620 11510 9460 7870 6750 lbs
6'7" 14'1" 19'6" 25'3" 31'4" 37'5" 44'3" 51'2" ft



630.6J4

3970 3560 2930 2400 2120 lbs
60'11" 65'7" 70'1" 76'7" 82'0" ft



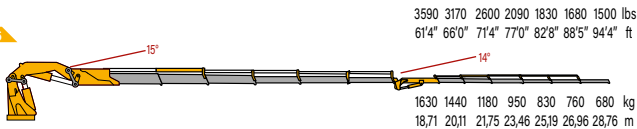
* Theoretical capacity at fixed hook



	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
630.4	538	310	70	6030	∞	2515	1500	2470	8300
630.5	532	310	70	6290	∞	2515	1500	2470	8300
630.6	524	310	70	6530	∞	2515	1500	2470	8300
630.6J4	524	310	70	7630	∞	2515	1700	2844	8300
630.6j6	517	310	70	7790	∞	2515	1700	2844	8300
630.7	517	310	70	6525	∞	2515	1500	2500	8300
630.8	514	310	70	6870	∞	2515	1500	2500	8300

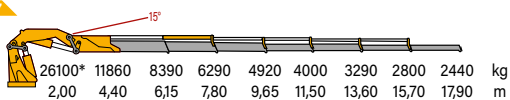


630.6J6

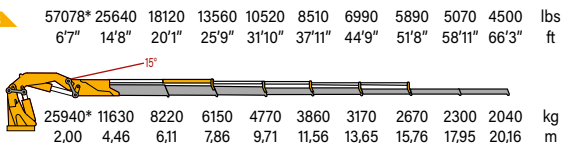


57420*	26150	18500	13870	10850	8820	7250	6170	5380	lbs
6'7"	14'5"	20'0"	25'7"	31'8"	37'9"	44'7"	51'6"	58'9"	ft

630.7



630.8



*Theoretical capacity at fixed hook

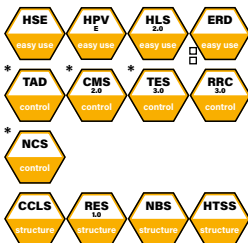
	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
630.4	389135	4495	18.4	13375	∞	8'3"	4'11"	8'11"	27'3"
630.5	384795	4495	18.4	13886	∞	8'3"	4'11"	8'11"	27'3"
630.6	379009	4495	18.4	1440	∞	8'3"	4'11"	8'11"	27'3"
630.6J4	379009	4495	18.4	16820	∞	8'3"	5'7"	7'8"	27'3"
630.6J6	379009	4495	18.4	17170	∞	8'3"	5'7"	7'10"	27'3"
630.7	373946	4495	18.4	14825	∞	8'3"	4'11"	8'11"	27'3"
630.8	371776	4495	18.4	15145	∞	8'3"	4'11"	8'11"	27'3"

TOP RANGE MODEL 650



standard

- easy use
- control
- structure



optional

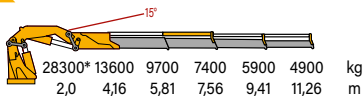
- control



*CE version
 □OPT. for NO CE version

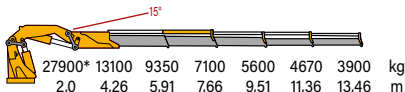
650.4

62260* 29980 21380 16310 13010 10800 lbs
 6'7" 13'8" 19'1" 24'10" 30'10" 36'11" ft



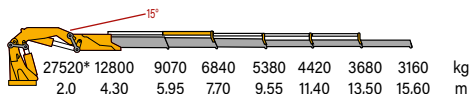
650.5

61510* 22880 20610 15650 12350 10300 8600 lbs
 6'7" 14'0" 19'5" 25'2" 31'2" 37'3" 44'2" ft



650.6

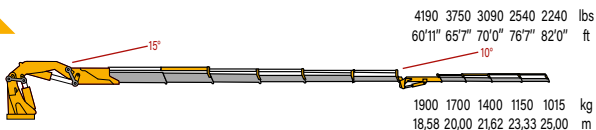
60670* 28220 20000 15080 11860 9740 8110 6970 lbs
 6'7" 14'1" 19'6" 25'3" 31'4" 37'5" 44'3" 51'2" ft



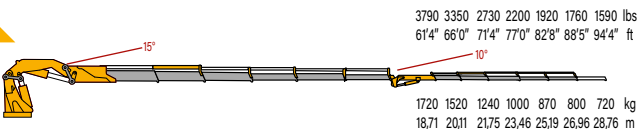
* Theoretical capacity at fixed hook

	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
650.4	555	330	70	6060	∞	2515	1500	2470	8300
650.5	548	330	70	6290	∞	2515	1500	2470	8300
650.6	540	330	70	6530	∞	2515	1500	2470	8300
650.6j4	540	330	70	7630	∞	2515	1700	2844	8300
650.6j6	540	330	70	7790	∞	2515	1700	2844	8300
650.7	533	330	70	6700	∞	2515	1500	2500	8300
650.8	530	330	70	6900	∞	2515	1500	2500	8300
650.8j4	530	330	70	7675	∞	2525	1700	2844	8300
650.8j6	530	330	70	7760	∞	2525	1700	2844	8300

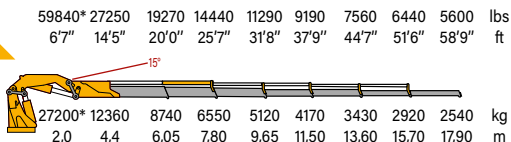
650.6J4



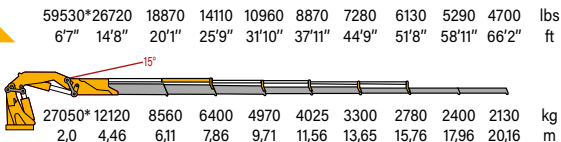
650.6J6



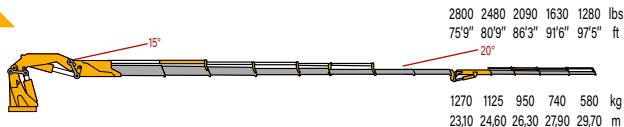
650.7



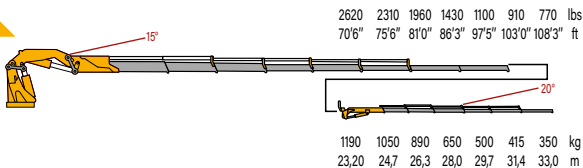
650.8



650.8J4



650.8J6



* Theoretical capacity at fixed hook

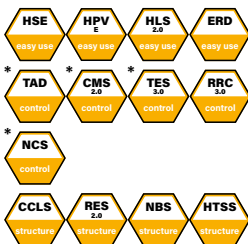
	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
650.4	401431	4785	18.4	13375	∞	8'3"	4'11"	8'11"	27'3"
650.5	396368	4785	18.4	13886	∞	8'3"	4'11"	8'11"	27'3"
650.6	390582	4785	18.4	14400	∞	8'3"	4'11"	8'11"	27'3"
650.6J4	390582	4785	18.4	16820	∞	8'3"	5'7"	9'4"	27'3"
650.6J6	390582	4785	18.4	17170	∞	8'3"	5'7"	9'4"	27'3"
650.7	385518	4785	18.4	14770	∞	8'3"	4'11"	8'2"	27'3"
650.8	383349	4785	18.4	15211	∞	8'3"	4'11"	8'11"	27'3"
650.8J4	383349	4785	18.4	16921	∞	8'3"	5'7"	9'4"	27'3"
650.8J6	383349	4785	18.4	17110	∞	8'3"	5'7"	9'4"	27'3"

TOP RANGE MODEL 820



standard

- easy use
- control
- structure



optional

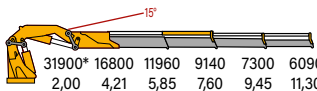
- control



*CE version

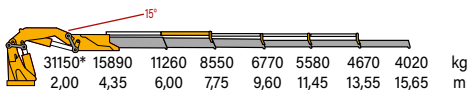
820.4

70325* 37035 26365 20150 16090 13425 lbs
6'7" 14'0" 19'2" 24'10" 31'0" 37'10" ft



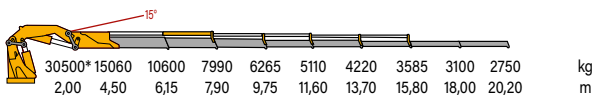
820.6

68670* 35030 24825 18850 14925 12300 10295 8860 lbs
6'7" 14'3" 19'8" 25'5" 31'6" 37'7" 44'5" 51'4" ft



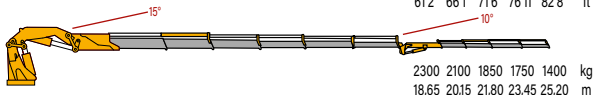
820.8

67240* 33200 23370 17615 13810 11265 9305 7905 6835 6060 lbs
6'7" 14'9" 20'2" 25'1" 31'1" 38'1" 44'1" 51'1" 59'0" 66'3" ft



820.6j4

5770 4630 4080 3860 3090 lbs
61'2" 66'1" 71'6" 76'11" 82'8" ft

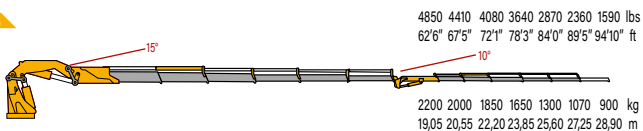


* Theoretical capacity at fixed hook

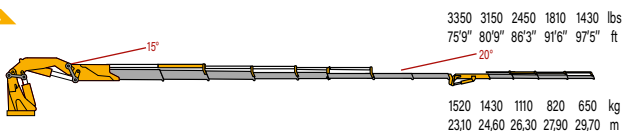
	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
820.4	694	345	70	7180	∞	2500	1660	2480	8300
820.6	678	345	70	7650	∞	2500	1660	2480	8300
820.6j4	678	345	70	8750	∞	2510	1850	2810	8300
820.6j6	678	345	70	8910	∞	2510	1850	2810	8300
820.8	665	345	70	8100	∞	2520	1670	2500	8300
820.8j4	665	345	70	8870	∞	2510	1850	2810	8300
820.8j6	665	345	70	8960	∞	2510	1850	2810	8300



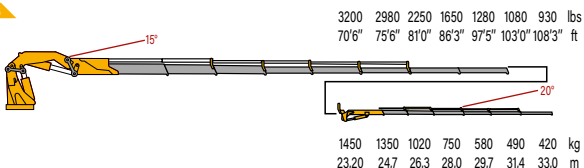
820.6J6



820.8J4



820.8J6



	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
820.4	511868	5004	18.4	13290	∞	8'2"	5'5'	8'2"	27'3"
820.6	500067	5004	18.4	14330	∞	8'2"	5'5'	8'2"	27'3"
820.6j4	500067	5004	18.4	19290	∞	8'3"	6'1"	9'3"	27'3"
820.6j6	500067	5004	18.4	19640	∞	8'3"	6'1"	9'3"	27'3"
820.8	490479	5004	18.4	17857	∞	8'3"	5'6"	8'2"	27'3"
820.8j4	490479	5004	18.4	19554	∞	8'3"	6'1"	9'3"	27'3"
820.8j6	490479	5004	18.4	19775	∞	8'3"	6'1"	9'3"	27'3"

TOP RANGE MODEL 950



standard

• easy use



• control



• structure



optional

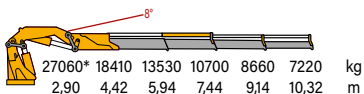
• control



*CE version

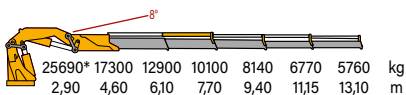
950.4

59660* 40560 29830 23590 19090 15920 lbs
9'6" 14'6" 19'6" 24'5" 29'12" 35'10" ft



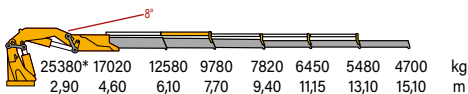
950.5

56640* 38140 28440 22270 17950 14930 12700 lbs
9'6" 15'1" 20'0" 25'3" 30'10" 37'9" 42'12" ft



950.6

55950* 37520 27530 21560 17240 14220 12080 10360 lbs
9'6" 15'1" 20'0" 25'3" 30'10" 36'7" 43'0" 49'6" ft

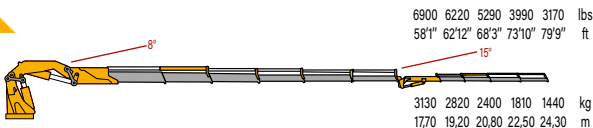


*Theoretical capacity at fixed hook

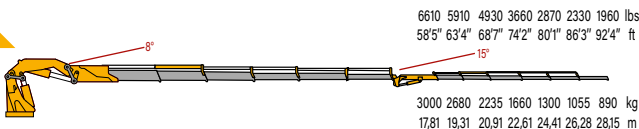


	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
950.4	805	345	80	8370	∞	2550	1980	2474	8800
950.5	781	345	80	8795	∞	2550	1980	2474	8800
950.6	768	345	80	9055	∞	2550	1980	2474	8800
950.6j4	768	345	80	9845	∞	2550	2260	2915	8800
950.6j6	768	345	80	9960	∞	2550	2260	2915	8800
950.7	760	345	80	9400	∞	2550	1980	2470	8800
950.8	747	345	80	9520	∞	2550	1980	2470	8800
950.8j4	747	345	80	10305	∞	2550	2260	2915	8800
950.8j6	747	345	80	10425	∞	2550	2260	2915	8800
950.9	742	345	80	9700	∞	2550	1980	2470	8800

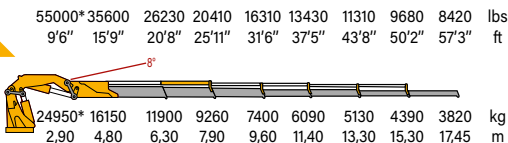
950.614



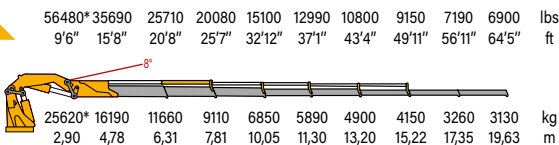
950.616



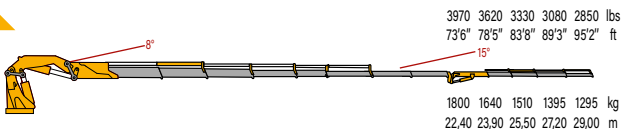
950.7



950.8

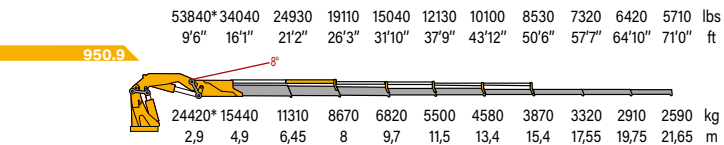
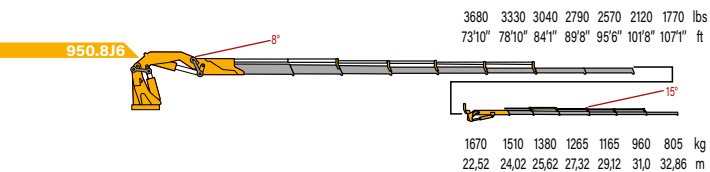


950.814



* Theoretical capacity at fixed hook

	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
950.4	593885	5003	21	19140	∞	8'4"	6'6"	8'1"	28'11"
950.5	575298	5003	21	19390	∞	8'4"	6'6"	8'1"	28'11"
950.6	566447	5003	21	19960	∞	8'4"	6'6"	8'1"	28'11"
950.614	566447	5003	21	21700	∞	8'4"	7'5"	9'7"	28'11"
950.616	566447	5003	21	21960	∞	8'4"	7'5"	9'7"	28'11"
950.7	560547	5003	21	20720	∞	8'4"	6'6"	8'1"	28'11"
950.8	550811	5003	21	20990	∞	8'4"	6'6"	8'1"	28'11"
950.8j4	550811	5003	21	22720	∞	8'4"	7'5"	9'7"	28'11"
950.8j6	550811	5003	21	22980	∞	8'4"	7'5"	9'7"	28'11"
950.9	547344	5003	21	21380	∞	8'4"	6'6"	8'1"	28'11"



* Theoretical capacity at fixed hook

TOP RANGE MODEL 1150



standard

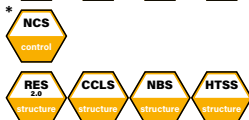
• easy use



• control



• structure



optional

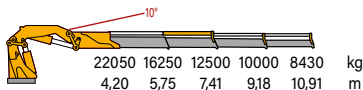
• control



*CE version

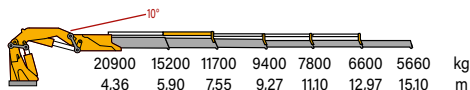
1150.4

48610 35820 27560 22050 18580 lbs
13'9" 18'10" 24'4" 30'10" 36'11" ft



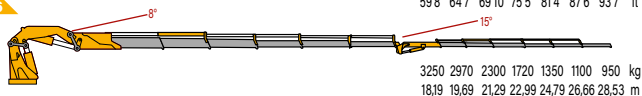
1150.6

46080 35510 25790 20720 17200 14550 12350 lbs
14'4" 19'4" 24'9" 30'5" 36'5" 42'7" 49'6" ft



1150.6J6

7160 6550 5070 3790 2980 2430 2090 lbs
59'8" 64'7" 69'10" 75'5" 81'4" 87'6" 93'7" ft

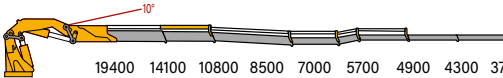


	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
1150.4	908	335	110	8680	∞	2530	1890	2650	9200
1150.6	894	335	110	9310	∞	2550	1890	2650	9200
1150.6j6	894	335	110	10215	∞	2550	2110	2998	9200
1150.8	860	335	110	9740	∞	2550	1890	2710	9200
1150.8j6	860	335	110	10645	∞	2550	2110	3000	9200
1150.10	853	335	110	9700	∞	2550	1898	2790	9200



1150.8

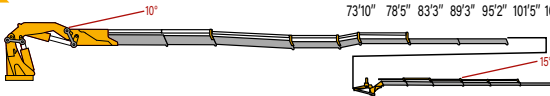
42770 31080 23810 18740 15430 12750 10800 9480 4700 lbs
 14'10" 20'0" 25'4" 31'10" 36'10" 43'7" 49'10" 56'3" 64'1" ft



19400 14100 10800 8500 7000 5700 4900 4300 3760 kg
 4,52 6,10 7,72 9,47 11,22 13,28 15,20 17,15 19,52 m

1150.8j6

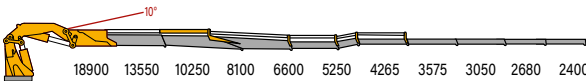
4060 3680 3370 2950 2310 1870 1590 lbs
 73'10" 78'5" 83'3" 89'3" 95'2" 101'5" 107'7" ft



1840 1670 1530 1340 1050 850 720 kg
 22,50 23,9 25,5 27,2 29,0 30,9 32,8 m

1150.10

41675 29880 22600 17860 14555 11580 9400 7880 6725 5910 5290 lbs
 15'1" 20'4" 25'7" 31'4" 37'2" 43'10" 50'1" 56'7" 64'4" 71'2" 78'1" ft



18900 13550 10250 8100 6600 5250 4265 3575 3050 2680 2400 kg
 4,60 6,20 7,80 9,55 11,30 13,35 15,30 17,25 19,60 21,70 23,80 m



	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
1150.4	656756	4858	28,9	19130	∞	8'4"	6'2"	8'8"	30'2"
1150.6	646630	4858	28,9	20525	∞	8'4"	6'2"	8'9"	30'2"
1150.6j6	646630	4858	28,9	22520	∞	8'4"	6'11"	9'11"	30'2"
1150.8	622038	4858	28,9	21470	∞	8'4"	7'6"	8'11"	30'2"
1150.8j6	622038	4858	28,9	23461	∞	8'4"	6'11"	9'11"	30'2"
1150.10	616975	4858	28,9	21380	∞	8'4"	6'2"	9'2"	30'2"

TOP RANGE MODEL 1600



standard

• easy use



• control



• structure



optional

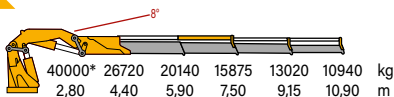
• control



*E.C. market specific equipment

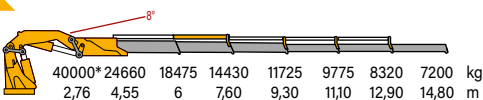
1600.4

88200* 58910 44400 35000 28700 24120 lbs
9'22" 14'5" 19'4" 24'7" 30'0" 35'9" ft



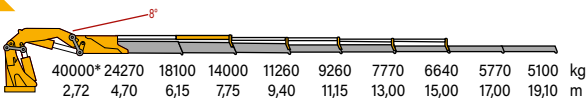
1600.6

88200* 54370 40730 31810 25850 21550 18340 15870 lbs
9'06" 14'11" 19'8" 24'11" 30'6" 36'1" 42'4" 48'7" ft



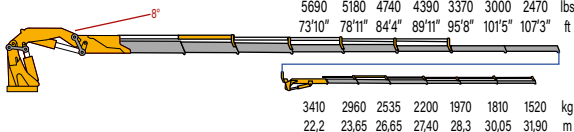
1600.8

88200* 53510 39900 30860 24820 20410 17130 14640 12720 11240 lbs
8'92" 15'5" 20'2" 25'5" 30'10" 36'7" 42'8" 49'3" 55'9" 62'8" ft



1600.8J6

5690 5180 4740 4390 3370 3000 2470 lbs
73'10" 78'11" 84'4" 89'11" 95'8" 101'5" 107'3" ft



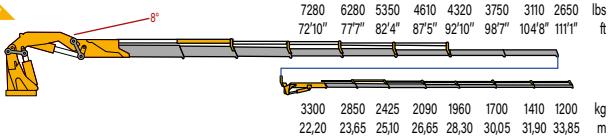
* Theoretical capacity at fixed hook



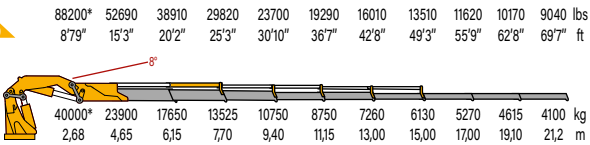
	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
1600.4	1170	345	100+50	12750	cont.	2550	3176	2444	9280/11080/12880
1600.6	1149	345	100+50	13700	cont.	2550	3176	2444	9280/11080/12880
1600.8	1135	345	100+50	14360	cont.	2550	3176	2444	9280/11080/12880
1600.8J7	1135	345	100+50	15960	cont.	2550	3600	2886	9280/11080/12880
1600.9	1090	345	100+50	14660	cont.	2550	3246	2595	9280/11080/12880
1600.9J7	1090	345	100+50	16260	cont.	2550	3600	2895	9280/11080/12880



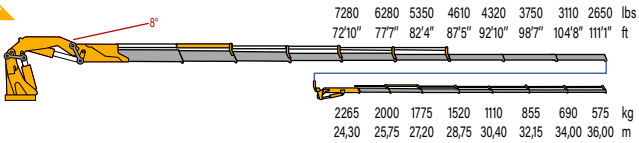
1600.8J7



1600.9



1600.9J7



* Theoretical capacity at fixed hook

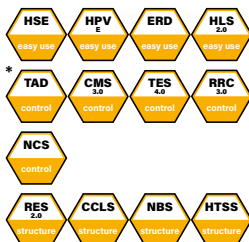
	lbs	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
1600.4	846261	5003	22+11	28110	cont.	8'4"	11'10"	8'6"	30'5"/36'4"/42'3"
1600.6	831072	5003	22+11	30200	cont.	8'4"	11'10"	8'6"	30'5"/36'4"/42'3"
1600.8	821669	5003	22+11	31660	cont.	8'4"	11'10"	8'6"	30'5"/36'4"/42'3"
1600.8J7	821669	5003	22+11	35190	cont.	8'4"	11'10"	9'6"	30'5"/36'4"/42'3"
1600.9	788563	5003	22+11	32320	cont.	8'4"	11'10"	8'6"	30'5"/36'4"/42'3"
1600.9J7	788563	5003	22+11	35850	cont.	8'4"	11'10"	9'6"	30'5"/36'4"/42'3"

TOP RANGE MODEL 2000



standard

- easy use
- control
- structure



optional

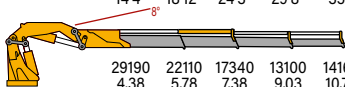
- control



*CE version

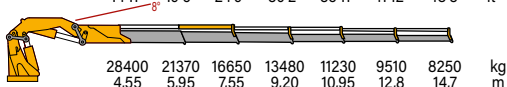
2000.4

64350 48740 38230 31220 26170 lbs
14'4" 18'12" 24'3" 29'8" 35'4" ft



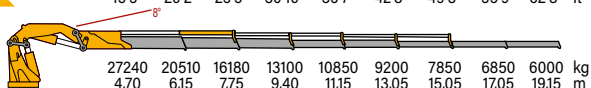
2000.6

62610 47110 36710 29720 24760 20285 18190 lbs
14'11" 19'6" 24'9" 30'2" 35'11" 41'12" 48'3" ft



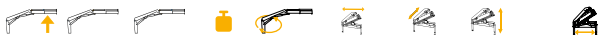
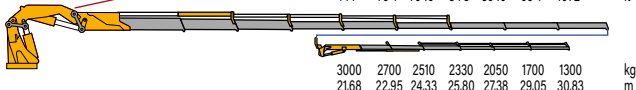
2000.8

60060 45225 35675 28885 23925 20285 17310 15100 13230 lbs
15'5" 20'2" 25'5" 30'10" 36'7" 42'8" 49'3" 55'9" 62'8" ft



2000.8J6

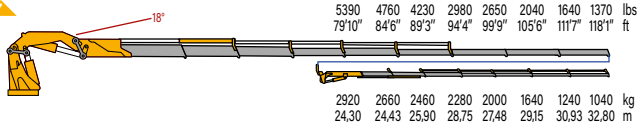
6610 5950 5530 5140 4520 3750 2730 lbs
71" 75'4" 79'10" 84'8" 89'10" 95'4" 101'2" ft



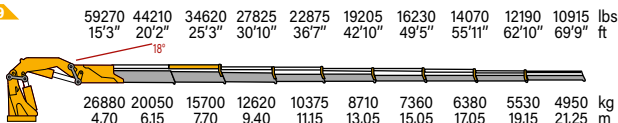
	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
2000.4		345	130	15325	∞	2550	3285	2711	9280/11080/12880
2000.6	1267	345	130	16000	∞	2550	3285	2711	9280/11080/12880
2000.8	1256	345	130	16735	∞	2550	3285	2711	9280/11080/12880
2000.8J6	1256	345	130	18705	∞	2550	3285	3010	9280/11080/12880
2000.8J7	1256	345	130	18825	∞	2550	3285	3010	9280/11080/12880
2000.9	1239	345	130	17045	∞	2550	3285	2711	9280/11080/12880
2000.9J7	1239	345	130	19135	∞	2550	3285	3010	9280/11080/12880



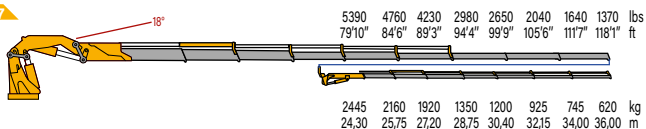
2000.8J7













2000.9



2000.9J7



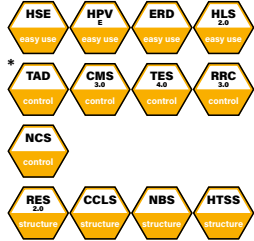
										
	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc	ft/inc
2000.4		5003	34	33790	∞	8'4"	10'9"	8'11"	30'5"/36'4"/42'3"	
2000.6	934491	5003	34	35270	∞	8'4"	10'9"	8'11"	30'5"/36'4"/42'3"	
2000.8	926378	5003	34	36890	∞	8'4"	10'9"	8'11"	30'5"/36'4"/42'3"	
2000.8J6	926378	5003	34	41240	∞	8'4"	11'12"	9'10"	30'5"/36'4"/42'3"	
2000.8J7	926378	5003	34	41500	∞	8'4"	11'12"	9'10"	30'5"/36'4"/42'3"	
2000.9	896458	5003	34	37580	∞	8'4"	10'9"	8'11"	30'5"/36'4"/42'3"	
2000.9J7	896458	5003	34	42900	∞	8'4"	11'12"	9'10"	30'5"/36'4"/42'3"	

TOP RANGE MODEL 3500



standard

- easy use
- control
- structure



optional

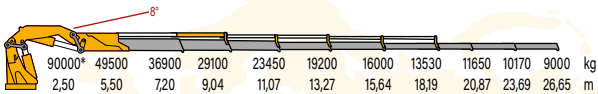
- control



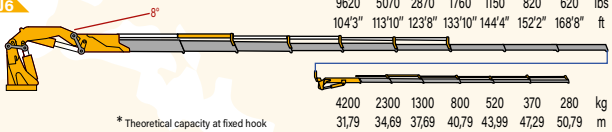
*CE version

3500.9

198410*	109130	81350	64150	51700	42330	35270	29830	25680	22420	19840	lbs
8'2"	18'1"	23'7"	29'8"	36'4"	43'6"	51'4"	59'8"	68'6"	77'9"	87'5"	ft



3500.9J6



	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
3500.9	2700	330	100+50	-	∞	2500	9160	2915	11540
3500.9J7	2700	330	100+50	-	∞	2550	9160	2750	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"	30'1"	9'7"	37'10"
3500.9J7	1952910	4785	26,3+13,1	-	∞	8'2"	30'1"	9'7"	37'10"

SPECIAL MODELS

COPMA SPECIAL MODELS, T MODELS, SPE MODELS, SC MODELS.

Remarkable Lifting Power, special lifting applications, short boom maximum load capacity.

A superior lifting equipment with a history of unique excellence and durability.

T MODELS

T special models for simple operations

"Serving operators for easy operations"

Superior quality T models are tailored for service trucks, utility lifting applications, and rescue mobility. A simplified knuckle boom for the most comfortable lifting configurations and the maximum rotational ability while maintaining the durability .



T MODEL - ESSENTIAL MODEL 24T



standard

- easy use
- control
- structure



optional

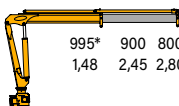
- control



*CE version

24T.1

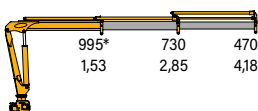
2190 1980 1760 lbs
4'10" 8'0" 9'2" ft



995* 900 800 kg
1,48 2,45 2,80 m

24T.2

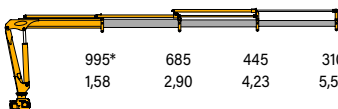
2190 1510 1040 lb
5' 9'4" 13'9" ft



995* 730 470 kg
1,53 2,85 4,18 m

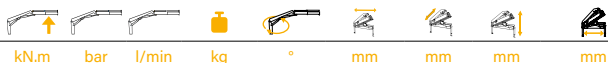
24T.3

2190 1510 980 680 lbs
5'2" 9'6" 13'11" 18'4" ft

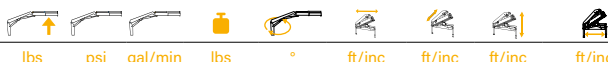


995* 685 445 310 kg
1,58 2,90 4,23 5,58 m

* Theoretical capacity at fixed hook



	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
24T.1	21,64	170	9	325	400	1711	450	1605	2600
24T.2	20,1	170	9	365	400	1711	450	1605	2600
24T.3	19,8	170	9	395	400	1711	450	1605	2600



	lbs	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
24T.1	15652	2465	2,4	715	400	5' 7"	1'6"	5'3"	8'6"
24T.2	14538	2465	2,4	803	400	5' 7"	1'6"	5'3"	8'6"
24T.3	14321	2465	2,4	869	400	5' 7"	1'6"	5'3"	8'6"

T MODEL - ESSENTIAL MODEL 28T



standard

- easy use
- control
- structure



optional

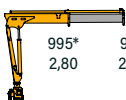
- control



*CE version

28T.1

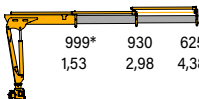
2190 2160 lbs
9'2" 9'7" ft



995* 980 kg
2,80 2,93 m

28T.2

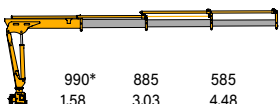
2190 2050 1380 lb
5' 2" 9'9" 14'4" ft



999* 930 625 kg
1,53 2,98 4,38 m

28T.3

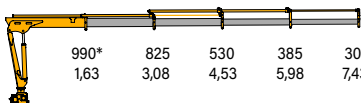
2180 1950 980 950 lbs
5'2" 9'11" 14'8" 19'5" ft



990* 885 585 430 kg
1,58 3,03 4,48 5,93 m

28T.4

2180* 1820 1170 850 660 lbs
5'4" 10'1" 14'10" 19'7" 24'5" ft



990* 825 530 385 300 kg
1,63 3,08 4,53 5,98 7,43 m

* Theoretical capacity at fixed hook

	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
28T.1	28	245	10	330	400	1711	450	1764	2900
28T.2	27	245	10	370	400	1711	450	1764	2900
28T.3	26	245	10	405	400	1711	450	1764	2900
28T.4	25	245	10	445	400	1711	450	1764	2900

	lbs	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
28T.1	20397	3552	2,6	726	400	7'2"	1'6"	5'9"	9'7"
28T.2	19673	3552	2,6	814	400	7'2"	1'6"	5'9"	9'7"
28T.3	19022	3552	2,6	902	400	7'2"	1'6"	5'9"	9'7"
28T.4	18031	3552	2,6	979	400	7'2"	1'6"	5'9"	9'7"

T MODEL - ESSENTIAL MODEL 80TN



standard

- easy use
- control
- structure



optional

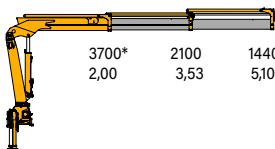
- control



*CE version

80TN.2

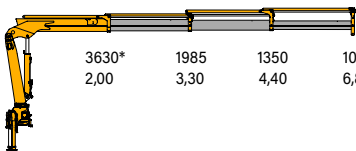
8140* 4620 3168 lbs
8'2" 11'1" 5'5" ft



3700* 2100 1440 kg
2,00 3,53 5,10 m

80TN.3

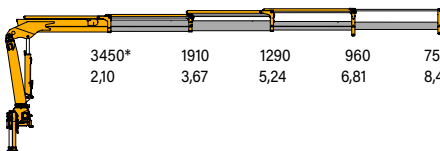
7986* 4367 2970 2222 lbs
6'7" 10'10" 16'11" 20'4" ft



3630* 1985 1350 1010 kg
2,00 3,30 4,40 6,80 m

80TN.4

7590* 4202 2838 2112 1661 lbs
6'11" 12'0" 17'2" 22'4" 27'10" ft



3450* 1910 1290 960 755 kg
2,10 3,67 5,24 6,81 8,48 m

* Theoretical capacity at fixed hook

	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
80TN.2	72,6	290	20	950	370	2195	539	1970	4480/5145
80TN.3	71,2	290	20	1003	370	2195	539	1970	4480/5145
80TN.4	70,1	290	20	1020	370	2195	539	1970	4480/5145

	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
80TN.2	52511	4205	5.26	2090	370	7'2"	1'9"	6'6"	14'8"/16'10"
80TN.3	51948	4205	5.26	2110	370	7'2"	1'9"	6'6"	14'8"/16'10"
80TN.4	51426	4205---	5.26	2244	370	7'2"	1'9"	6'6"	14'8"/16'10"

T MODEL - ESSENTIAL MODEL 150TN



standard

- control
- structure



optional

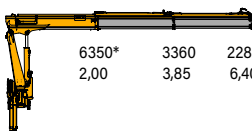
- control
- easy use



*CE version

150TN.2

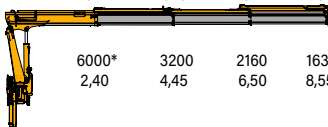
14000* 7410 5030 lbs
77" 14'3" 21'1" ft



6350* 3360 2280 kg
2,00 3,85 6,40 m

150TN.3

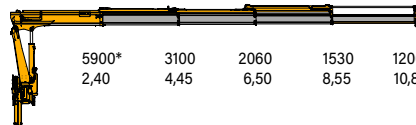
13230* 7050 4760 3590 lbs
6'7" 10'10" 16'11" 28'1" ft



6000* 3200 2160 1630 kg
2,40 4,45 6,50 8,55 m










150TN.4










13010* 6830 4540 3370 2650 lbs
7'10" 14'7" 21'4" 28'1" 35'5" ft



5900* 3100 2060 1530 1200 kg
2,40 4,45 6,50 8,55 10,80 m

* Theoretical capacity at fixed hook

									
	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
150TN.2	143.3	330	25	1320	400	2522	775	2569	4600
150TN.3	141.3	330	25	1440	400	2522	775	2569	4600
150TN.4	139	330	25	1560	400	2195	775	2569	4600

									
	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
150TN.2	102202	4785	6,57	2910	400	8'3"	2'7"	8'5"	15'1"
150TN.3	105693	4785	6,57	3175	400	8'3"	2'7"	8'5"	15'1"
150TN.4	100538	4785	6,57	3440	400	7'2"	2'7"	8'5"	15'1"

SPECIAL MODELS

SPE MODELS

SPE special compact models for the maximum power

"The Strongest Short-Boom knuckle boom crane"

COPMA means great indoor lifting performance suited for short distance lifting in extremely tight spaces. Powerful lifting capacity with a compact design fitted for industrial operations and short distances heavy lifting and engineered with back cabin folding with optimized stabilizers for better adaptation to the most massive indoor machinery movements.



SPE MODEL - ESSENTIAL MODEL SPE 130



standard

- control
- structure



optional

- control
- easy use

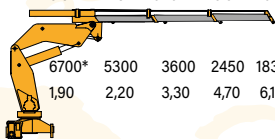


*CE version

SPE 130.3

14740* 11660 7920 5390 4026 lbs

6'3" 7'3" 10'10" 15'5" 20'0" ft



6700* 5300 3600 2450 1830 kg

1,90 2,20 3,30 4,70 6,10 m



* Theoretical capacity at fixed hook

	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
SPE 130.3	127,3	290	35	1950	395	2433	698	2340	4505/5383
	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
SPE 130.3	92096	4200	9.2	4145	395	7'12"	2'3"	7'8"	14'9"/17'8"

SPE MODEL - HIGH POWER MODEL SPE 350



standard

- easy use



- control



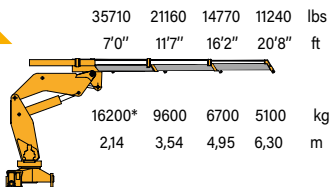
optional

- control

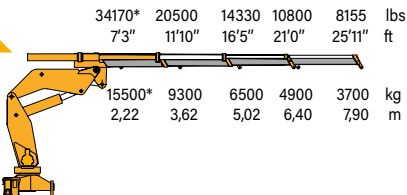


*CE version
Slewing system with motor, pinion and gear

SPE 350.3



SPE 350.3



* Theoretical capacity at fixed hook

OPT.∞ rotation with Column mounted controls instead of controls on the base

	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
SPE350.3	343,5	320	60	4100	600 *	2430	1290	2570	5600-8800
SPE350.4	339,5	320	60	4170	600 *	2430	1290	2570	5600-8800

	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
SPE350.3	248450	4640	15,8	9040	600 *	7'12"	4'1"	8'5"	18'4"-28'10"
SPE350.4	245560	4640	15,8	9190	600 *	7'12"	4'1"	8'5"	18'4"-28'10"

SPE MODEL - HIGH POWER MODEL SPE 560



standard

- easy use



- control



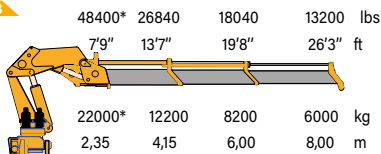
optional

- control

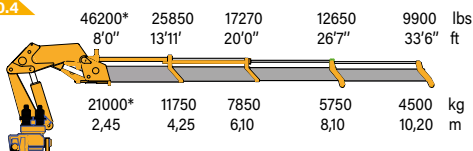


*CE version
Slewing system with motor, pinion and gear

SPE 560.3



SPE 560.4



* Theoretical capacity at fixed hook

OPT.∞ rotation with Column mounted controls instead of controls on the base

	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
SPE560.3	507	315	80	5230	600° *	2500	1410	2350	7800
SPE560.4	504	315	80	5520	600° *	2500	1410	2350	7800

	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
SPE560.3	366713	4567	21	11530	600° *	8'2"	4'7"	7'8"	25'7"
SPE560.4	364543	4567	21	12169	600° *	8'2"	4'7"	7'8"	25'7"

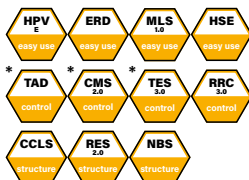
SPE MODEL - TOP RANGE

MODEL SPE 900



standard

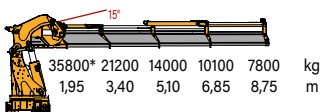
- easy use
- control
- structure



*CE version

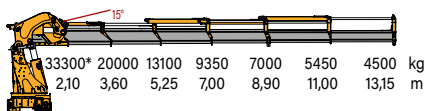
SPE 900.4

78925* 46738 30864 22267 17196 lbs
6'4" 11'15" 16'73" 2247" 28'71" ft



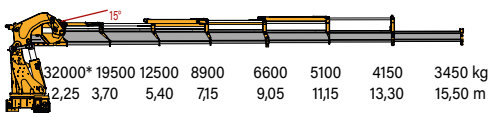
SPE 900.6

73414* 44092 28881 20613 15432 12015 9921 lbs
6'12' 15'1" 20'0" 25'3" 30'10" 37'9" 43'14" ft



SPE 900.7

70550* 42990 27560 19620 12350 11240 9150 7610 lbs
7'5" 12'2" 17'9" 23'5" 29'8" 36'7" 43'8" 50'10" ft



* Theoretical capacity at fixed hook

	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
SPE 900.4	707	320	80	7880	∞	2517	1874	2700	8000
SPE 900.6	706,5	320	80	8100	∞	2517	1960	2707	8000
SPE 900.7	706	320	80	8400	∞	2523	1967	2707	8000

	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
SPE 900.4	521456	4640	21,1	17370	∞	8'3"	6'2"	8'10"	26'3"
SPE 900.6	521088	4640	21,1	17860	∞	8'3"	6'5"	8'10"	26'3"
SPE 900.7	521456	4640	21,1	18520	∞	8'3"	6'6"	8'11"	26'3"

SPECIAL MODELS

SC MODELS

SC special models for heavy loads

"Unique performance for the toughest needs"

COPMA SC models are special knuckle boom cranes with a shorter secondary arm which allows heavy loading and unloading at a very close distance to the crane column while maintaining the highest hydraulic reach length.

COPMA SC models allow the application of winch, operator's basket, and many others optionals.

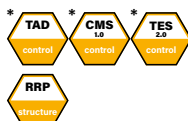


SC MODEL - ESSENTIAL MODEL 108 sc



standard

- control
- structure



optional

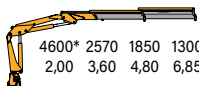
- control
- easy use



*CE version
* Only for CE version
○ Only in combination with CMS 2.0

108.2 sc

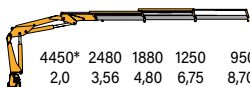
10140* 5680 4080 2870 lbs
6'7" 10'10" 15'11" 22'6" ft



4600* 2570 1850 1300 kg
2,00 3,60 4,80 6,85 m

108.3 sc

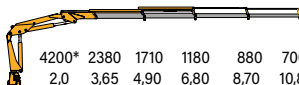
9810* 5470 3970 2755 2095 bs
6'7" 11'7" 15'75 21'1" 28'55" ft



4450* 2480 1880 1250 950 kg
2,0 3,56 4,80 6,75 8,70 m

108.4 sc

9260* 5250 3770 2600 1940 1540 lbs
6'7" 12'0" 16'1" 22'3" 28'55" 35'4" ft



4200* 2380 1710 1180 880 700 kg
2,0 3,65 4,90 6,80 8,70 10,80 m

* Theoretical capacity at fixed hook

	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
108.2sc	90,7	280	25	1050	400	2323	737	2106	4350/5200
108.3sc	86,6	280	25	1140	400	2323	737	2106	4350/5200
108.4sc	85,2	280	25	1210	400	2323	737	2106	4350/5200

	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
108.2sc	66896	4060	6,6	2310	400	7'7"	2'5"	6'1"	14'9"/16'11"
108.3sc	63872	4060	6,6	2510	400	7'7"	2'5"	6'1"	14'9"/16'11"
108.4sc	62840	4060	6,6	2670	400	7'7"	2'5"	6'1"	14'9"/16'11"

SC MODEL - ESSENTIAL MODEL 128 sc



standard

- control
- structure



optional

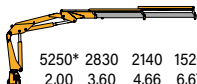
- control
- easy use



*CE version

128.2 sc

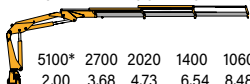
11570* 6240 2140 1520 lbs
6'7" 10'11" 15'3" 21'3" ft



5250* 2830 2140 1520 kg
2,00 3,60 4,66 6,67 m

128.3 sc

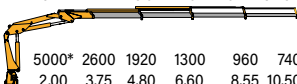
11240* 5950 4450 3090 2340 lbs
6'7" 12'1" 15'6" 21'5" 27'10" ft



5100* 2700 2020 1400 1060 kg
2,00 3,68 4,73 6,54 8,48 m

128.4 sc

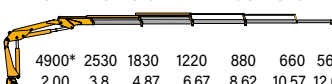
11130* 5950 4230 2870 2120 1630 lbs
6'7" 12'4" 15'9" 21'8" 28'1 34'5" ft



5000* 2600 1920 1300 960 740 kg
2,00 3,75 4,80 6,60 8,55 10,50 m

128.5 sc

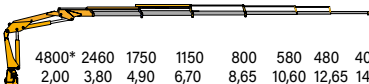
10800* 5580 4030 2690 1810 1430 1210 lbs
6'7" 12'6" 16'10" 21'11" 28'3" 34'8 41'4" ft



4900* 2530 1830 1220 880 660 560 kg
2,00 3,8 4,87 6,67 8,62 10,57 12,60 m

128.6 sc

10580* 5420 3860 2540 1760 1280 1060 880 lbs
6'7" 12'6" 16'1" 22'0" 28'5" 34'9" 41'6" 48'3" ft



4800* 2460 1750 1150 800 580 480 400 kg
2,00 3,80 4,90 6,70 8,65 10,60 12,65 14,70 m

* Theoretical capacity at fixed hook



	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
128.2sc	100	310	25	1370	400	2360	821	2202	4380/5240
128.3sc	97,4	310	25	1476	400	2360	821	2202	4380/5240
128.4sc	95,6	290	25	1573	400	2360	821	2202	4380/5240
128.5sc	94,3	290	25	1650	400	2362	821	2202	4380/5240
128.6sc	91,7	290	25	1730	400	2412	830	2202	4380/5240



	lbs	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
128.2sc	89000	4495	7.9	3020	400	7'9"	2'8"	7'3"	14'4"/17'2"
128.3sc	74365	4205	7.9	3250	400	7'9"	2'8"	7'3"	14'4"/17'2"
128.4sc	71824	4205	7.9	3470	400	7'9"	2'8"	7'3"	14'4"/17'2"
128.5sc	70160	4205	7.9	3640	400	7'9"	2'8"	7'3"	14'4"/17'2"
128.6sc	68207	4205	7.9	3810	400	7'11"	2'9"	7'3"	14'4"/17'2"

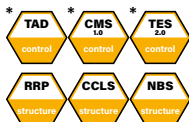
SC MODEL - ESSENTIAL

MODEL 158 sc



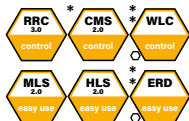
standard

- control
- structure



optional

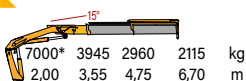
- control
- easy use



*CE version
 * Only for CE version
 ○ Only in combination with CMS 2.0

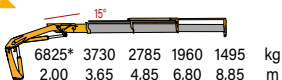
158 .2sc

15430* 8695 6525 4660 lbs
 6'7" 11'6" 15'6" 21'9" ft



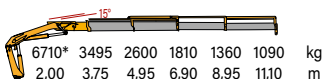
158 .3sc

15050* 8225 6140 4320 3295 lbs
 6'7" 11'9" 15'9" 22'3" 29'0" ft



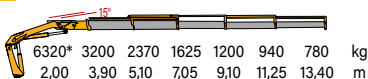
158.4sc

14790* 7705 5730 3990 3000 2405 lbs
 6'7" 12'3" 16'2" 22'6" 29'4" 36'4" ft



158.5sc

13990* 7055 5225 3580 2645 2070 1720 lbs
 6'7" 12'18" 16'7" 23'1" 29'9" 36'9" 43'96" ft



* Theoretical capacity at fixed hook

	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
158.2sc	137,3	305	40	1750	420	2500	890	2270	4600/5+270/6500
158.3sc	133,5	305	40	1870	420	2500	900	2270	4600/5270/6500
158.4sc	128,5	305	40	1980	420	2500	910	2270	4600/5270/6500
158.5sc	122,4	305	40	2075	420	2500	1000	2270	4600/5270/6500

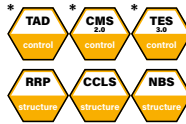
	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
158.2sc	101011	4423	10,57	3860	420	8'2"	2'11"	7'5"	15'1"-17'3"-21'3"
158.3sc	97693	4423	10,57	4120	420	8'2"	2'11"	7'5"	15'1"-17'3"-21'3"
158.4sc	95629	4423	10,57	4370	420	8'2"	3'	7'5"	15'1"-17'3"-21'3"
158.5sc	91352	4423	10,57	4570	420	8'2"	3'3"	7'5"	15'1"-17'3"-21'3"

SC MODEL - HIGH POWER MODEL 168 sc



standard

- control
- structure



optional

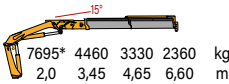
- control
- easy use



*CE version
*Only for Ce version

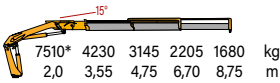
168.2sc

16960* 9830 7340 5210 lbs
6'7" 11'4" 15'3" 21'8" ft



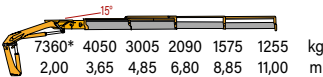
168.3sc

16560* 9330 6930 4860 3705 lbs
6'7" 11'8" 15'7" 21'12" 28'8" ft












168.4sc

16560* 8930 6625 4610 3475 2770 lbs
6'7" 11'9" 15'9" 22'3" 29'1" 36'1" ft



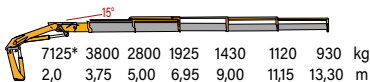
* Theoretical capacity at fixed hook

	 kN.m	 bar	 l/min	 kg	 °	 mm	 mm	 mm	 mm
168.2sc	151	300	40	1885	420	2500	910	2275	4600/5270/6500
168.3sc	147,3	300	40	2005	420	2500	910	2275	4600/5270/6500
168.4sc	145	300	40	2120	420	2500	910	2275	4600/5270/6500
168.5sc	139,7	300	40	2230	420	2500	1000	2275	4600/5270/6500
168.6sc	136.0	300	40	2330	420	2510	1030	2275	4600/5270/6500



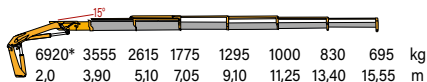
168.5sc

15710* 8380 6170 4230 3140 2470 2050 lbs
6'7" 12'3" 16'4" 22'8" 29'5" 36'6" 43'6" ft












168.6sc

15260* 7840 5765 3915 2855 2205 1830 1530 lbs
6'7" 12'10" 16'9" 23'1" 29'10" 36'11" 43'12" 51'0" ft



* Theoretical capacity at fixed hook

									
	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
168.2sc	111372	4351	10,57	4160	420	8'2"	3'0"	7'6"	15'1"-17'3"-21'3"
168.3sc	108643	4351	10,57	4420	420	8'2"	3'0"	7'6"	15'1"-17'3"-21'3"
168.4sc	106947	4351	10,57	4670	420	8'2"	3'0"	7'6"	15'1"-17'3"-21'3"
168.5sc	103037	4351	10,57	4920	420	8'3"	3'3"	7'6"	15'1"-17'3"-21'3"
168.6sc	100308	4351	10,57	5140	420	8'3"	3'5"	7'6"	15'1"-17'3"-21'3"

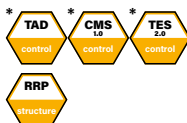
SC MODEL - ESSENTIAL

MODEL 170 sc



standard

- control
- structure



optional

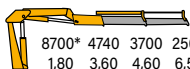
- control
- easy use



*CE versiont

170.2sc

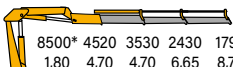
19180* 10450 8160 5640 lbs
5'11" 11'10" 15'1" 21'6" ft



8700* 4740 3700 2560 kg
1,80 3,60 4,60 6,55 m

170.3sc

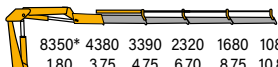
18740* 9960 7780 5360 3950 lbs
5'11" 12'2" 15'5" 21'10" 28'7" ft



8500* 4520 3530 2430 1790 kg
1,80 4,70 4,70 6,65 8,70 m

170.4sc

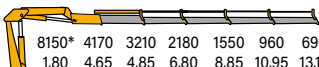
18410* 9660 7470 5110 3700 2380 lbs
5'11" 12'4" 15'7" 21'12" 28'8" 35'7" ft



8350* 4380 3390 2320 1680 1080 kg
1,80 3,75 4,75 6,70 8,75 10,85 m










170.5sc










17970* 9190 7080 4810 3420 2120 1520 lbs
5'11" 12'8" 15'11" 22'4" 29'0" 35'11" 43'0" ft



8150* 4170 3210 2180 1550 960 690 kg
1,80 4,65 4,85 6,80 8,85 10,95 13,10 m

*Theoretical capacity at fixed hook

									
	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
170.2sc	167,4	300	40	1935	395	2486	831	2228	4555/5437
170.3sc	164	300	40	2070	395	2486	834	2228	4555/5437
170.4sc	161	300	40	2200	395	2486	834	2228	4555/5437
170.5sc	157,5	300	40	2320	395	2486	920	2228	4555/5437

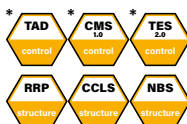
									
	lbs	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
170.2sc	123468	4349	10,5	4270	395	8'2"	2'9"	7'4"	14'11"/17'10"
170.3sc	120960	4349	10,5	4560	395	8'2"	2'9"	7'4"	14'11"/17'10"
170.4sc	118748	4349	10,5	4850	395	8'2"	2'9"	7'4"	14'11"/17'10"
170.5sc	116166	4349	10,5	5110	395	8'2"	3'0"	7'4"	14'11"/17'10"

SC MODEL - ESSENTIAL MODEL 178 sc



standard

- control
- structure



optional

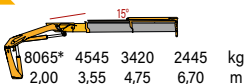
- control
- easy use



*CE version
* Only for CE version
○ Only in combination with CMS 2.0

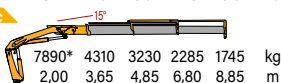
178.2sc

17780* 10022 7540 5390 lbs
6'7" 11'6" 15'6" 21'9" ft



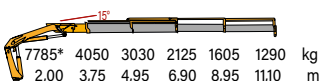
178.3sc

17390* 9500 7120 5040 3850 lbs
6'7" 11'9" 15'9" 22'3" 29'0" ft



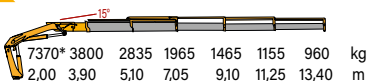
178.4sc

17160* 8930 6680 4685 3540 2845 lbs
6'7" 12'3" 16'2" 22'6" 29'4" 36'4" ft



178.5sc

16250* 8380 6250 4330 3230 2545 2115 lbs
6'7" 12'18" 16'7" 23'1" 29'9" 36'9" 43'96" ft



* Theoretical capacity at fixed hook

	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
178.2sc	158	300	40	1830	420	2500	890	2270	4600/5270/6500
178.3sc	154	300	40	1950	420	2500	900	2270	4600/5270/6500
178.4sc	149	300	40	2060	420	2500	910	2270	4600/5270/6500
178.5sc	145	300	40	2165	420	2500	1000	2270	4600/5270/6500

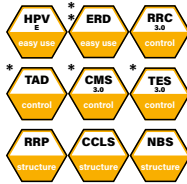
	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
178.2sc	101011	4351	10,57	4030	420	8'2"	2'11"	7'5"	15'1"-17'3"-21'3"
178.3sc	113806	4351	10,57	4300	420	8'2"	2'11"	7'5"	15'1"-17'3"-21'3"
178.4sc	109897	4351	10,57	4540	420	8'2"	3'	7'5"	15'1"-17'3"-21'3"
178.5sc	106947	4351	10,57	4770	420	8'2"	3'3"	7'5"	15'1"-17'3"-21'3"

SC MODEL - HIGH POWER MODEL 188 sc



standard

- easy use
- control
- structure



optional

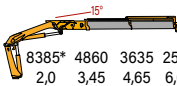
- control
- easy use



*CE version
* Only for CE version

188.2sc

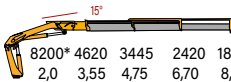
18490*10710 8010 5700 lbs
6'7" 11'4" 15'3" 21'8" ft



8385* 4860 3635 2585 kg
2,0 3,45 4,65 6,60 m

188.3sc

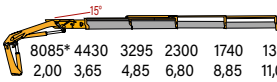
18080* 10190 7580 5340 4070 lbs
6'7" 11'8" 15'7" 21'12" 28'8" ft



8200* 4620 3445 2420 1845 kg
2,0 3,55 4,75 6,70 8,75 m

188.4sc

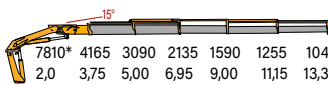
17820* 9770 7250 5070 3820 3060 lbs
6'7" 11'12" 15'11" 22'4" 29'0" 36'11" ft



8085* 4430 3295 2300 1740 1390 kg
2,00 3,65 4,85 6,80 8,85 11,00 m

188.5sc

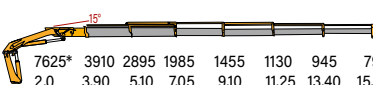
17220* 9180 6800 4700 3510 2765 2300 lbs
6'7" 12'4" 16'5" 22'10" 29'6" 36'7" 43'7" ft



7810* 4165 3090 2135 1590 1255 1045 kg
2,0 3,75 5,00 6,95 9,00 11,15 13,30 m

188.6sc

16810* 8620 6360 4375 3205 2490 2085 1740 lbs
6'7" 12'10" 16'9" 23'1" 29'10" 36'11" 43'12" 51'0" ft



7625* 3910 2895 1985 1455 1130 945 795 kg
2,0 3,90 5,10 7,05 9,10 11,25 13,40 15,55 m

* Theoretical capacity at fixed hook



	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
188.2sc	164,5	325	60	1885	420	2500	910	2275	4600/5270/6500
188.3sc	160,8	325	60	2005	420	2500	910	2275	4600/5270/6500
188.4sc	158,6	325	60	2120	420	2500	910	2275	4600/5270/6500
188.5sc	153	325	60	2230	420	2500	1000	2275	4600/5270/6500
188.6sc	149,5	325	60	2330	420	2510	1030	2275	4600/5270/6500



	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
188.2sc	121314	4713	15,85	4160	420	8'2"	3'0"	7'6"	15'1"-17'3"-21'3"
188.3sc	118600	4713	15,85	4420	420	8'2"	3'0"	7'6"	15'1"-17'3"-21'3"
188.4sc	116977	4713	15,85	4670	420	8'2"	3'0"	7'6"	15'1"-17'3"-21'3"
188.5sc	112847	4713	15,85	4920	420	8'2"	3'3"	7'6"	15'1"-17'3"-21'3"
188.6sc	110266	4713	15,85	5140	420	8'3"	3'5"	7'6"	15'1"-17'3"-21'3"

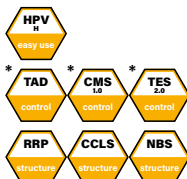
SC MODEL - ESSENTIAL

MODEL 198 sc



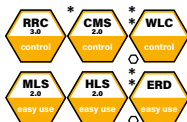
standard

- easy use
- control
- structure



optional

- control
- easy use

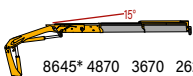


* Only for CE version

* only in combination with CMS 2.0

198.2sc

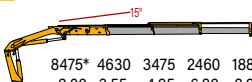
19060* 10735 8090 5790 lbs
6'7" 11'3" 15'6" 21'9" ft



8645* 4870 3670 2625 kg
2,00 3,45 4,75 6,70 m

198.3sc

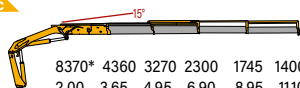
18680* 10210 7660 5425 4155 lbs
6'7" 11'6" 15'9" 22'3" 29'0" ft



8475* 4630 3475 2460 1885 kg
2,00 3,55 4,95 6,80 8,95 m

198.4sc

18450* 9610 7210 5070 3850 3085 lbs
6'7" 11'9" 16'2" 22'6" 29'3" 36'4" ft



8370* 4360 3270 2300 1745 1400 kg
2,00 3,65 4,95 6,90 8,95 11,10 m

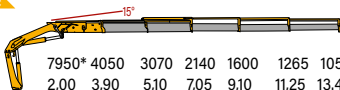
* Theoretical capacity at fixed hook

	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
198.2sc	164,8	320	50	1830	420	2500	890	2270	4600/5270/6500
198.3sc	161,2	320	50	1940	420	2500	900	2270	4600/5270/6500
198.4sc	156,1	320	50	2060	420	2500	910	2270	4600/5270/6500
198.5sc	154,9	315	50	2165	420	2500	1000	2270	4600/5270/6500



198.5sc

17530* 9040 6770 4720 3525 2790 2325 lbs
 6'7" 12'18" 16'7" 23'1" 29'9" 36'9" 43'96" ft



7950* 4050 3070 2140 1600 1265 1055 kg
 2,00 3,90 5,10 7,05 9,10 11,25 13,40 m

* Theoretical capacity at fixed hook

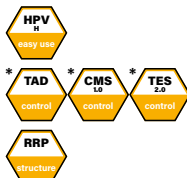
	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc
198.2sc	121550	4641	13,21	4030	420	8'2"	2'11"	7'5" 15'1"-17'3"-21'3"
198.3sc	118895	4641	13,21	4409	420	8'2"	2'11"	7'5" 15'1"-17'3"-21'3"
198.4sc	115060	4641	13,21	4540	420	8'2"	3'	7'5" 15'1"-17'3"-21'3"
198.5sc	115650	4568	13,21	4770	420	8'2"	3'3"	7'5" 15'1"-17'3"-21'3"

SC MODEL - ESSENTIAL MODEL 200 sc



standard

- easy use
- control
- structure



optional

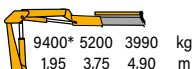
- control
- easy use



*CE version

200.1sc

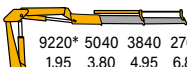
20720* 1150 8800 lbs
6'4" 12'3" 16'1" ft



9400* 5200 3990 kg
1,95 3,75 4,90 m

200.2sc

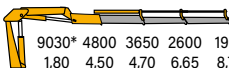
20330* 1110 8470 6080 lbs
6'5" 12'6" 16'3" 22'7" ft



9220* 5040 3840 2760 kg
1,95 3,80 4,95 6,88 m

200.3sc

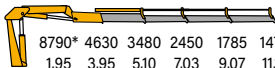
19910* 10580 8050 5730 4370 lbs
6'5" 12'12" 16'7" 21'11" 29'7" ft



9030* 4800 3650 2600 1980 kg
1,80 4,50 4,70 6,65 8,70 m

200.4sc

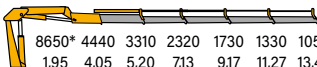
19380* 10210 7670 5400 3940 3240 lbs
6'5" 13'0" 16'9" 23'11" 29'9" 36'8" ft



8790* 4630 3480 2450 1785 1470 kg
1,95 3,95 5,10 7,03 9,07 11,17 m

200.5sc

19070* 9790 7300 5110 3810 2930 2310 lbs
6'5" 13'3" 17'1" 23'5" 30'1" 37'0" 44'1" ft



8650* 4440 3310 2320 1730 1330 1050 kg
1,95 4,05 5,20 7,13 9,17 11,27 13,43 m

*Theoretical capacity at fixed hook



	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
200.1sc	191	300	40	1860	395	2510	848	2230	4555/5437
200.2sc	187,9	300	40	1990	395	2510	848	2230	4555/5437
200.3sc	183,6	300	40	2120	395	2510	848	2230	4555/5437
200.4sc	179,4	300	40	2235	395	2510	848	2230	4555/5437
200.5sc	176,4	300	40	2380	395	2510	948	2230	4555/5437



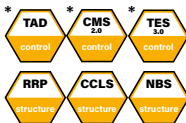
	lbs	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
200.1sc	140874	4350	10,5	4100	395	8'3"	2'9"	7'4"	14'11"/17'10"
200.2sc	138573	4350	10,5	4390	395	8'3"	2'9"	7'4"	14'11"/17'10"
200.3sc	135416	4349	10,5	4670	395	8'3"	2'9"	7'4"	14'11"/17'10"
200.4sc	132319	4350	10,5	4930	395	8'3"	2'9"	7'4"	14'11"/17'10"
200.5sc	130106	4350	10,5	5250	395	8'3"	3'1"	7'4"	14'11"/17'10"

SC MODEL - HIGH POWER MODEL 208 sc



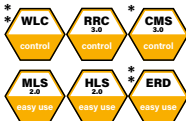
standard

- control
- structure



optional

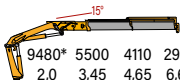
- control
- easy use



*CE version
* Only for CE version

208.2sc

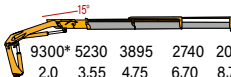
20900*12130 9060 6440 lbs
6'7" 11'3" 15'3" 21'7" ft



9480* 5500 4110 2920 kg
2,0 3,45 4,65 6,60 m

208.3sc

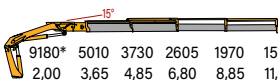
20500* 11530 8590 6040 4610 lbs
6'7" 11'6" 15'6" 21'9" 28'7" ft



9300* 5230 3895 2740 2090 kg
2,0 3,55 4,75 6,70 8,75 m

208.4sc

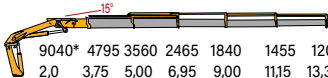
20240* 11045 8220 5740 4345 3470 lbs
6'7" 11'9" 15'9" 22'4" 29'1" 36'1" ft



9180* 5010 3730 2605 1970 1575 kg
2,00 3,65 4,85 6,80 8,85 11,00 m

208.5sc

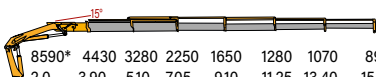
19930* 10570 7850 5435 4055 3210 2660 lbs
6'7" 12'3" 16'4" 22'8" 29'5" 36'6" 43'6" ft



9040* 4795 3560 2465 1840 1455 1205 kg
2,0 3,75 5,00 6,95 9,00 11,15 13,30 m

208.6sc

18940* 9770 7230 4960 3640 2820 2360 1970 lbs
6'7" 12'8" 16'7" 23'1" 29'9" 36'9" 43'9" 51'4" ft



8590* 4430 3280 2250 1650 1280 1070 895 kg
2,0 3,90 5,10 7,05 9,10 11,25 13,40 15,55 m

* Theoretical capacity at fixed hook



	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
208.2sc	186	325	50	2170	420	2500	920	2280	5270/6500
208.3sc	182	325	50	2310	420	2500	920	2280	5270/6500
208.4sc	179	325	50	2440	420	2500	1010	2280	5270/6500
208.5sc	176,4	325	50	2560	420	2500	1010	2280	5270/6500
208.6sc	169,5	325	50	2660	420	2500	1030	2280	5270/6500



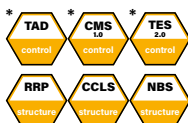
	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
208.2sc	137187	4713	13,21	4780	420	8'3"	3'0"	7'6"	17'3"-21'3"
208.3sc	134236	4713	13,21	5090	420	8'3"	3'0"	7'6"	17'3"-21'3"
208.4sc	132024	4713	13,21	5380	420	8'3"	3'4"	7'6"	17'3"-21'3"
208.5sc	129811	4713	13,21	5640	420	8'3"	3'4"	7'6"	17'3"-21'3"
208.6sc	124648	4713	13,21	5840	420	8'3"	3'5"	7'6"	17'3"-21'3"

SC MODEL - ESSENTIAL MODEL 218 sc



standard

- control
- structure



optional

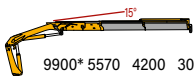
- control
- easy use



*CE version
 *Only for CE version
 ○ Only in combination with CMS 2.0

218.2sc

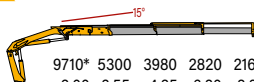
21838* 12200 9260 6610 lbs
 6'7" 11'4" 15'7" 21'12" ft



9900* 5570 4200 3000 kg
 2,00 3,45 4,75 6,70 m

218.3sc

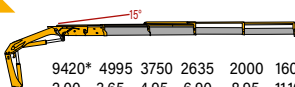
21410* 11600 8770 6220 4760 lbs
 6'7" 11'8" 15'11" 22'4" 29'0" ft



9710* 5300 3980 2820 2160 kg
 2,00 3,55 4,85 6,80 8,85 m

218.4sc

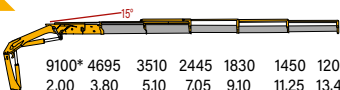
20770* 11010 8270 5810 4410 3540 lbs
 6'7" 12'8" 16'3" 22'8" 29'4" 36'5" ft



9420* 4995 3750 2635 2000 1605 kg
 2,00 3,65 4,95 6,90 8,95 11,10 m

218.5sc

20060* 10350 7740 5390 4030 3200 2660 lbs
 6'7" 12'5" 16'9" 23'2" 29'10" 36'11" 43'12" ft



9100* 4695 3510 2445 1830 1450 1205 kg
 2,00 3,80 5,10 7,05 9,10 11,25 13,40 m

* Theoretical capacity at fixed hook

	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
218.2sc	188,5	320	50	1830	420	2500	920	2270	5270/6500
218.3sc	184,5	320	50	1940	420	2500	920	2270	5270/6500
218.4sc	178,8	320	50	2060	420	2500	1010	2285	5270/6500
218.5sc	175	320	50	2165	420	2500	1025	2341	5270/6500

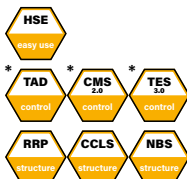
	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
218.2sc	139030	4641	13,21	4030	420	8'3"	3'0"	7'6"	17'3"-21'3"
218.3sc	136080	4280	13,21	4409	420	8'3"	3'0"	7'6"	17'3"-21'3"
218.4sc	131876	4641	13,21	4540	420	8'3"	3'4"	7'6"	17'3"-21'3"
218.5sc	129073	4641	13,21	4770	420	8'3"	3'4"	7'8"	17'3"-21'3"

SC MODEL - HIGH POWER MODEL 220 sc



standard

- easy use
- control
- structure



optional

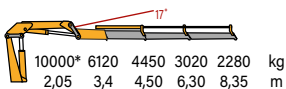
- control
- easy use



*CE version
- Only for CE version

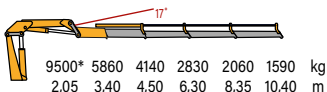
220.3sc

22050*13490 9810 6660 5030 lbs
6'9" 11'2" 14'9" 20'8" 27'5" ft



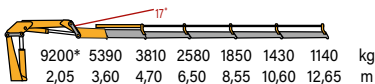
220.4sc

20940*12920 9130 6240 4540 3510 lbs
6'7" 11'2" 14'9" 20'8" 27'5" 34'1" ft



220.5sc

20280*11880 8400 5690 4080 3150 2510 lbs
6'70" 11'10" 15'5" 21'4" 28'1" 34'9" 41'6" ft

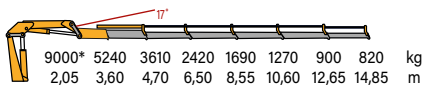


	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
220.3sc	204	280	40	2974	400	2540	1160	2190	5200/6400
220.4sc	195,4	280	40	3120	400	2540	1160	2190	5200/6400
220.5sc	190,3	280	40	3260	400	2540	1160	2190	5200/6400
220.6sc	185	280	40	3430	400	2540	1160	2220	5200/6400
220.7sc	181	280	40	3482	400	2540	1200	2240	5200/6400



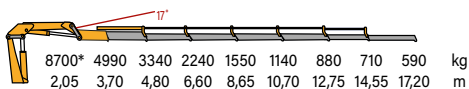
220.6sc

19840* 11550 7960 5340 3730 2800 19800 1810 lbs
 6'9" 11'10" 15'10" 21'4" 28'1" 34'9" 41'6" 48'9" ft



220.7sc

19180* 11000 7360 4940 3420 2510 1940 1570 1300 lbs
 6'9" 12'2" 15'9" 21'8" 28'5" 35'1" 41'10" 49'1" 56'5" ft



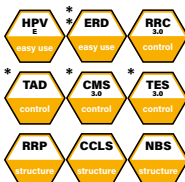
	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
220.3sc	150463	4060	10,5	6560	400	8'4"	3'10"	7'2"	16'11" / 21'0"
220.4sc	147780	4060	10,5	6880	400	8'4"	3'10"	7'2"	16'11" / 21'0"
220.5sc	140137	4060	10,5	7190	400	8'4"	3'10"	7'2"	16'11" / 21'0"
220.6sc	136449	4060	10,5	7560	400	8'4"	3'10"	7'3"	16'11" / 21'0"
220.7sc	133499	4060	10,5	7670	400	8'4"	3'11"	7'4"	16'11" / 21'0"

SC MODEL - HIGH POWER MODEL 228 sc



standard

- easy use
- control
- structure



optional

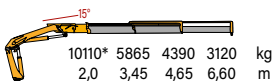
- control
- easy use



*CE version
*Only for CE version

228.2sc

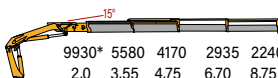
22290*12930 9680 6880 lbs
6'7" 11'4" 15'3" 21'8" ft



10110* 5865 4390 3120 kg
2,0 3,45 4,65 6,60 m

228.3sc

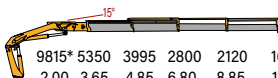
21890* 12300 9190 6470 4940 lbs
6'7" 11'8" 15'7" 21'12" 28'8" ft



9930* 5580 4170 2935 2240 kg
2,0 3,55 4,75 6,70 8,75 m

228.4sc

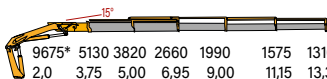
21640* 11790 8811 6170 4670 3740 lbs
6'7" 11'12" 15'11" 22'4" 29'0" 36'1" ft



9815* 5350 3995 2800 2120 1695 kg
2,00 3,65 4,85 6,80 8,85 11,00 m

228.5sc

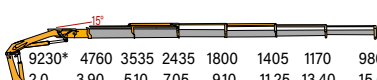
21330* 11310 8420 5860 4390 3470 2890 lbs
6'7" 12'4" 16'5" 22'10" 29'6" 36'7" 43'8" ft



9675* 5130 3820 2660 1990 1575 1310 kg
2,0 3,75 5,00 6,95 9,00 11,15 13,30 m

228.6sc

20350* 10490 7790 5370 3970 3100 2580 2160 lbs
6'7" 12'10" 16'9" 23'2" 29'10" 36'11" 43'12" 51'0" ft



9230* 4760 3535 2435 1800 1405 1170 980 kg
2,0 3,90 5,10 7,05 9,10 11,25 13,40 15,55 m

*Theoretical capacity at fixed hook

	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
228.2sc	146406	5003	17,17	4780	420	8'3"	3'0"	7'6"	17'3"-21'3"
228.3sc	142349	5003	17,17	5200	420	8'3"	3'0"	7'6"	17'3"-21'3"
228.4sc	140317	5003	17,17	5490	420	8'3"	3'4"	7'6"	17'3"-21'3"
228.5sc	137703	5003	17,17	5640	420	8'3"	3'4"	7'6"	17'3"-21'3"
228.6sc	134974	5003	17,17	5860	420	8'3"	3'5"	7'6"	17'3"-21'3"

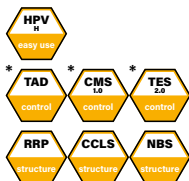
	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
228.2sc	198.5	345	65	2170	420	2500	920	2280	5270/6500
228.3sc	194	345	65	2360	420	2500	920	2280	5270/6500
228.4sc	191,5	345	65	2490	420	2500	1010	2280	5270/6500
228.5sc	188,7	345	65	2560	420	2500	1010	2280	5270/6500
228.6sc	182	345	65	2660	420	2500	1050	2280	5270/6500

SC MODEL ESSENTIAL MODEL 238 sc



standard

- easy use
- control
- structure



optional

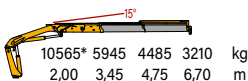
- control
- easy use



*CE version
* Only for CE version
O Only in combination with CMS 2.0

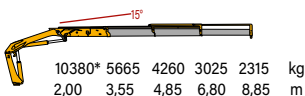
238.2sc

23290* 13110 9890 7080 lbs
6'7" 11'4" 15'7" 21'12" ft



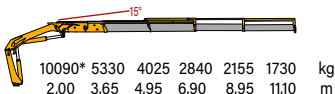
238.3sc

22880* 12490 9390 6670 5100 lbs
6'7" 11'8" 15'11" 22'4" 29'0" ft



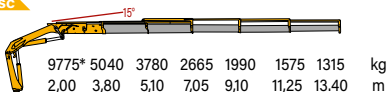
238.4sc

22240* 11790 8870 6260 4750 1110 lbs
6'7" 12'8" 16'3" 22'8" 29'4" 36'5" ft



238.5sc

21550* 11110 8330 5830 4390 3470 2900 lbs
6'7" 12'5" 16'9" 23'2" 29'10" 36'11" 43'12" ft



* Theoretical capacity at fixed hook

	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
238.2sc	201	340	65	2110	420	2500	920	2270	5270/6500
238.3sc	197	340	65	2240	420	2500	920	2270	5270/6500
238.4sc	191,5	340	65	2370	420	2500	1010	2270	5270/6500
238.5sc	187,8	340	65	2490	420	2500	1025	2285	5270/6500

	lbs.ft	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
238.2sc	148250	4931	17,17	4650	420	8'2"	3'0"	7'5"	17'3"-21'3"
238.3sc	145300	4931	17,17	4940	420	8'2"	2'10"	7'5"	17'3"-21'3"
238.4sc	142143	4931	17,17	5220	420	8'2"	3'4"	7'5"	17'3"-21'3"
238.5sc	138514	4931	17,17	5490	420	8'2"	3'4"	7'6"	17'3"-21'3"

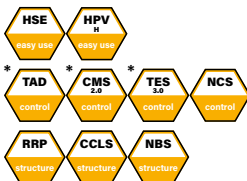
SC MODEL - HIGH POWER

MODEL 240 sc



standard

- easy use
- control
- structure



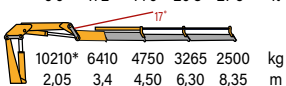
optional

- control
- easy use

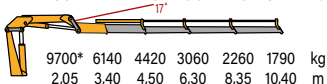


*CE version
* Only for CE version

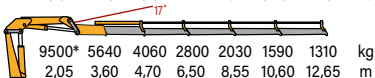
240.3sc 22510* 14130 10470 7200 5510 lbs
6'9" 11'2" 14'9" 20'8" 27'5" ft



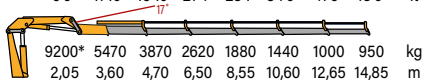
240.4sc 21380* 13540 9740 6750 4980 3950 lbs
6'9" 11'2" 14'9" 20'8" 27'5" 34'1" ft



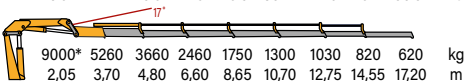
240.5sc 20940* 12430 8950 6170 4480 3510 2980 lbs
6'9" 11'10" 15'5" 21'4" 28'1" 34'9" 41'6" ft



240.6sc 20280* 12060 8530 5780 4140 3170 2200 2090 lbs
6'9" 11'10" 15'10" 21'4" 28'1" 34'9" 41'6" 48'9" ft



240.7sc 19840* 11060 8070 5420 3860 2870 2270 1810 1520 lbs
6'9" 12'2" 15'9" 21'8" 28'5" 35'1" 41'10" 49'1" 56'5" ft



* Theoretical capacity at fixed hook

	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
240.3sc	213,7	280	40	2990	400	2540	1160	2190	5200/6400
240.4sc	204,7	280	40	3135	400	2540	1160	2190	5200/6400
240.5sc	199	280	40	3275	400	2540	1160	2190	5200/6400
240.6sc	193	280	40	3445	400	2540	1160	2220	5200/6400
240.7sc	191	280	40	3497	400	2540	1200	2240	5200/6400

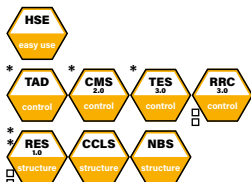
	lbs	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
240.3sc	157617	4060	10,5	6590	400	8'4"	3'10"	7'2"	16'11" / 21'0"
240.4sc	150979	4060	10,5	6910	400	8'4"	3'10"	7'2"	16'11" / 21'0"
240.5sc	146775	4060	10,5	7220	400	8'4"	3'10"	7'2"	16'11" / 21'0"
240.6sc	142349	4060	10,5	7590	400	8'4"	3'10"	7'3"	16'11" / 21'0"
240.7sc	140874	4060	10,5	7710	400	8'4"	3'11"	7'4"	16'11" / 21'0"

SC MODEL - TOP RANGE MODEL 280B sc



standard

- easy use
- control
- structure



optional

- control



*CE version
 * Only for CE version/600* for NO CE version
 OPT. for NO CE version

280B.4sc

28660* 15170 11350 8160 6170 4980 lbs
 6'7" 13'2" 17'1" 22'9" 29'5" 35'9" ft

13000*	6880	5150	3700	2800	2260	kg
2,05	4,05	5,20	7,00	9,00	10,95	m

280B.5sc

27778* 13779 10252 7275 5467 4343 3594 lbs
 6'7" 13'8" 17'6" 23'5" 30'0" 36'4" 43'1" ft

12250*	6250	4650	3300	2480	1970	1630	kg
2,05	4,20	5,35	7,15	9,15	11,10	13,15	m

280B.6sc

27010* 13470 9965 6890 5160 4045 3285 2778 lbs
 6'7" 13'8" 17'6" 23'5" 30'0" 36'4" 43'1" 50'2" ft

12250*	6110	4520	3170	2340	1835	1490	1260	kg
2,05	4,20	5,35	7,15	9,15	11,10	13,15	15,30	m

280B.7sc

26455* 13140 9655 6770 4960 3840 3065 2570 2185 lbs
 6'7" 14'1" 18'0" 23'9" 30'3" 36'7" 43'6" 50'7" 57'9" ft

12000*	5960	4380	3070	2250	1740	1390	1165	990	kg
2,05	4,30	5,50	7,25	9,25	11,20	13,30	15,45	17,65	m

280B.8sc

25575* 12455 9040 6285 4530 3440 2715 2205 1855 1590 lbs
 6'7" 14'3" 18' 23'9" 30'3" 36'7" 43'6" 50'7" 57'9" 65'3" ft

11600*	5660	4100	2850	2055	1560	1230	1000	840	720	kg
2,0	4,35	5,50	7,25	9,25	11,20	13,30	15,45	17,65	19,90	m

* Theoretical capacity at fixed hook

600 for no CE version



	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
280B.4sc	273,3	305	50	3730	∞*	2540	1270	2330	5155/6400/7800
280B.5sc	257,5	305	50	3880	∞*	2540	1270	2330	5155/6400/7800
280B.6sc	251,7	305	50	4030	∞*	2540	1270	2330	5155/6400/7800
280B.7sc	251,4	305	50	4155	∞*	2540	1360	2330	5155/6400/7800
280B.8sc	241,5	305	50	4280	∞*	2540	1370	2330	5155/6400/7800



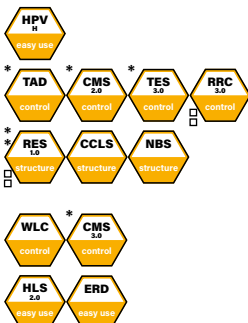
	lbs	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
280B.4sc	201576	4423	13,1	8220	∞*	8'4"	4'2"	7'8"	6'11"/21'0"/25'7"
280B.5sc	189922	4423	13,1	8550	∞*	8'4"	4'2"	7'8"	6'11"/21'0"/25'7"
280B.6sc	185644	4423	13,1	8880	∞*	8'4"	4'2"	7'8"	6'11"/21'0"/25'7"
280B.7sc	185423	4423	13,1	9160	∞*	8'4"	4'6"	7'8"	6'11"/21'0"/25'7"
280B.8sc	178121	4423	13,1	9440	∞*	8'4"	4'6"	7'8"	6'9"/21'0"/25'5"

SC MODEL - TOP RANGE MODEL 300 sc



standard

- easy use
- control
- structure

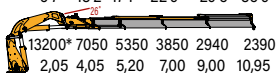


optional

- control

300.4sc

29100* 15545 11795 8490 6480 5270 lbs
6'7" 13'2" 17'1" 22'9" 29'5" 35'9" ft

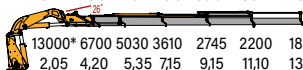


13200* 7050 5350 3850 2940 2390 kg
2,05 4,05 5,20 7,00 9,00 10,95 m

*CE version
± Only for CE version/600* for NO CE version
□ OPT. for NO CE version

300.5sc

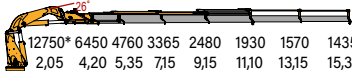
28660* 14770 11090 7960 6050 4850 4045 lbs
6'7" 13'8" 17'6" 23'5" 30'0" 36'4" 43'1" ft



13000* 6700 5030 3610 2745 2200 1835 kg
2,05 4,20 5,35 7,15 9,15 11,10 13,15 m

300.6sc

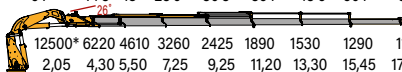
28110* 14220 10495 7420 5470 4255 3460 3165 lbs
6'7" 13'8" 17'6" 23'5" 30'0" 36'4" 43'1" 50'2" ft



12750* 6450 4760 3365 2480 1930 1570 1435 kg
2,05 4,20 5,35 7,15 9,15 11,10 13,15 15,30 m

300.7sc

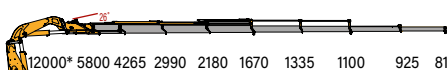
27560* 13715 10165 7190 5345 4170 2845 2425 2185 lbs
6'7" 14'3" 18' 23'9" 30'3" 36'7" 43'6" 50'7" 57'9" ft



12500* 6220 4610 3260 2425 1890 1530 1290 1100 kg
2,05 4,30 5,50 7,25 9,25 11,20 13,30 15,45 17,65 m

300.8sc

26455* 12790 9400 6590 4810 3680 2945 2425 2040 1785 lbs
6'7" 14'3" 18'0" 23'9" 30'3" 36'7" 43'6" 50'7" 57'9" 65'3" ft



12000* 5800 4265 2990 2180 1670 1335 1100 925 810 kg
2,05 4,35 5,50 7,25 9,25 11,20 13,30 15,45 17,65 19,95 m

* Theoretical capacity at fixed hook

600 for *600* for no CE version

	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
300.4sc	280	310	50	3745	∞*	2540	1270	2330	5155/6425/7800
300.5sc	276	310	50	3895	∞*	2540	1270	2330	5155/6425/7800
300.6sc	265,7	310	50	4045	∞*	2540	1270	2330	5155/6425/7800
300.7sc	264,5	310	50	4170	∞*	2540	1360	2330	5155/6425/7800
300.8sc	247,5	310	50	4295	∞*	2540	1370	2330	5155/6425/7800

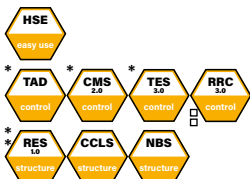
	lbs	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
300.4sc	206517	4495	13,1	8260	∞*	8'4"	4'2"	7'8"	6'11"/21'0"/25'7"
300.5sc	203567	4495	13,1	8590	∞*	8'4"	4'2"	7'8"	6'11"/21'0"/25'7"
300.6sc	195823	4495	13,1	8920	∞*	8'4"	4'2"	7'8"	6'9"/21'0"/25'5"
300.7sc	195085	4495	13,1	9190	∞*	8'4"	4'6"	7'8"	6'9"/21'0"/25'5"
300.8sc	182547	4495	13,1	947-0	∞*	8'4"	4'6"	7'8"	6'9"/21'0"/25'5"

SC MODEL - TOP RANGE MODEL 340 sc



standard

- easy use
- control
- structure



optional

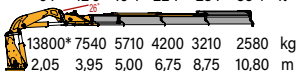
- control
- easy use



*CE version
 * Only for CE version/600* for NO CE version
 □ OPT. for NO CE version

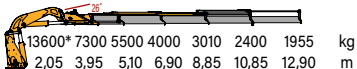
340.4sc

30425*16625 12590 9260 7080 5690 lbs
 6'7" 12'9" 16'4" 22'1" 28'7" 35'4" ft



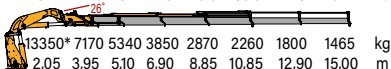
340.5sc

29985*16095 12125 8820 6635 5290 4310 lbs
 6'7" 12'9" 16'7" 22'6" 29'0" 35'6" 42'3" ft



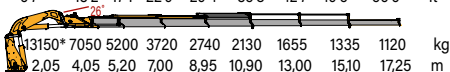
340.6sc

29430* 15810 11775 8490 6330 4985 3970 3230 lbs
 6'7" 12'9" 16'7" 22'6" 29'0" 35'6" 42'3" 49'2" ft



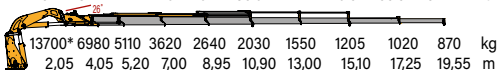
340.7sc

28990* 15545 11465 8200 6040 4695 3650 2945 2470 lbs
 6'7" 13'2" 17'1" 22'9" 29'4" 35'8" 42'7" 49'5" 56'6" ft



340.8sc

30205* 15390 11265 7980 5820 4475 3420 2660 2250 1920 lbs
 6'7" 13'2" 17'1" 22'9" 29'4" 35'8" 42'7" 49'5" 56'6" 64'1" ft



*Theoretical capacity at fixed hook

600 for no CE version

	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
340.4sc	292	290	60	4095	∞*	2540	1380	2390	6200/7800
340.5sc	282,8	290	60	4255	∞*	2540	1380	2390	6200/7800
340.6sc	279,8	290	60	4415	∞*	2540	1460	2390	6200/7800
340.7sc	277,8	290	60	4545	∞*	2540	1480	2390	6200/7800
340.8sc	277,3	290	60	4655	∞*	2540	1480	2390	6200/7800

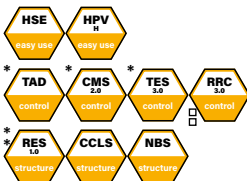
	lbs	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
340.4sc	215368	4205	15,8	9030	∞*	8'4"	4'6"	7'10"	20'5"/25'7"
340.5sc	208583	4205	15,8	9380	∞*	8'4"	4'6"	7'10"	20'5"/25'7"
340.6sc	207360	4205	15,8	9730	∞*	8'4"	4'9"	7'10"	20'5"/25'7"
340.7sc	204895	4205	15,8	10020	∞*	8'4"	4'10"	7'10"	20'5"/25'7"
340.8sc	204526	4205	15,8	10260	∞*	8'4"	4'10"	7'10"	20'5"/25'7"

SC MODEL - TOP RANGE MODEL 360 sc



standard

- easy use
- control
- structure



optional

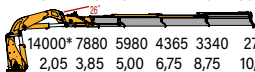
- control
- easy use



*CE version
 * Only for CE version/600" for NO CE version
 □ OPT. for NO CE version

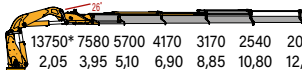
360.4sc

30865* 17375 13185 9625 7365 5955 lbs
 6'7" 12'6" 16'4" 22'1" 28'7" 35'4" ft



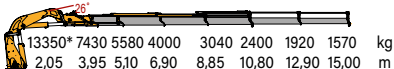
360.5sc

30315* 16710 12570 9195 6990 5600 4555 lbs
 6'7" 12'9" 16'7" 22'6" 29'0" 35'6" 42'3" ft



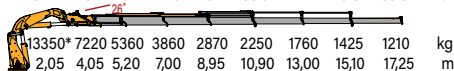
360.6sc

29875* 16380 12300 8820 6700 6700 4235 3460 lbs
 6'7" 12'9" 16'7" 22'6" 29'0" 35'6" 42'3" 49'2" ft



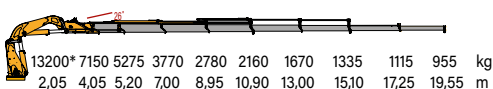
360.7sc

29430* 15920 11815 8510 6330 4960 3880 3140 2670 lbs
 6'7" 13'2" 17'1" 22'9" 29'4" 35'8" 42'7" 49'5" 56'6" ft



360.8sc

29100* 15765 11630 8310 6130 4760 3680 2945 2460 2105 lbs
 6'7" 13'2" 17'1" 22'9" 29'4" 35'8" 42'7" 49'5" 56'6" 64'1" ft



* Theoretical capacity at fixed hook

*600" for no CE version

	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
360.4sc	297,6	300	60	4125	∞*	2540	1380	2390	6200/7800
360.5sc	293,7	300	60	4285	∞*	2540	1380	2390	6200/7800
360.6sc	287,9	300	60	4445	∞*	2540	1460	2390	6200/7800
360.7sc	286,8	300	60	4570	∞*	2540	1480	2390	6200/7800
360.8sc	284	300	60	4685	∞*	2540	1480	2390	6200/7800

	lbs	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
360.4sc	219498	4350	15,8	9090	∞*	8'4"	4'6"	7'10"	20'5"/25'7"
360.5sc	216622	4350	15,8	9450	∞*	8'4"	4'6"	7'10"	20'5"/25'7"
360.6sc	212344	4350	15,8	9800	∞*	8'4"	4'9"	7'10"	20'5"/25'7"
360.7sc	211533	4350	15,8	10080	∞*	8'4"	4'10"	7'10"	20'5"/25'7"
360.8sc	209468	4350	15,8	10330	∞*	8'4"	4'10"	7'10"	20'5"/25'7"

SC MODEL - HIGH POWER MODEL 1100 sc



standard

• easy use



• control



• structure



optional

• control



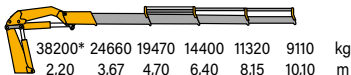
• easy use



*CE version
Slewing system with 2 motors, pinion and gear
* Only for CE version

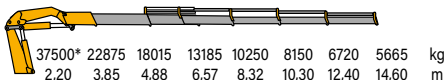
1100.4sc

81570* 54370 42520 31750 24960 20080 lbs
7'2" 12' 15'4" 21' 26'7" 33'2" ft



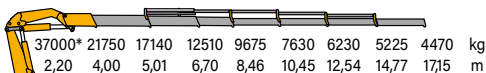
1100.6sc

82670* 50430 39720 29070 22600 17970 14810 12490 lbs
7'2" 12'6" 16' 21'6" 27'3" 33'8" 40'7" 47'9" ft



1100.7sc

8160* 47950 37790 27580 21330 16820 13730 11520 9850 lbs
7'2" 13'1" 16'4" 22' 27'8" 34'3" 41'1" 48'5" 61'4" ft



* Theoretical capacity at fixed hook

	kN.m	bar	l/min	kg	°	mm	mm	mm	mm
1100.4sc	888,1	330	100	8900	∞	2500	1944	2768	9050/1205
1100.6sc	864,2	330	100	9500	∞	2530	1950	2768	9050/1205
1100.7sc	853,73	330	100	9920	∞	2547	1970	2768	9050/1205

	lbs	psi	gal/min	lbs	°	ft/inc	ft/inc	ft/inc	ft/inc
1100.4sc	644570	4785	26,3	19625	∞	8'2"	6'6"	9'1"	29'9"/39'6"
1100.6sc	637000	4785	26,3	20950	∞	8'4"	6'11"	9'1"	29'9"/39'6"
1100.7sc	619630	4785	26,3	21870	∞	8'4"	6'11"	9'1"	29'9"/39'6"

NOTES



NOTES

COPMA MODELS 2020



truck loader cranes



Powerful Synergies



CPS



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STEEL**



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