SERAM LIFTING BALANCED **CRANES**

S100.20E/S100.25E/S100.30E



≥ 20 m / 30 m 66 ft / 98 ft



78 t / 134 t 86 USt / 148 USt

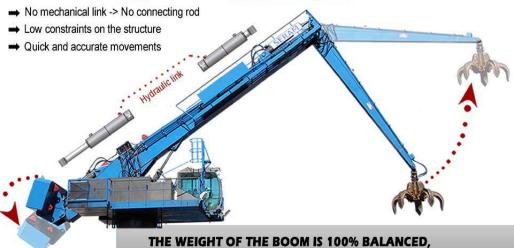
Courtesy of Crane.Market

THE SERAM HYDRAULIC BALANCING HE EASY AND EFFICIENT SOLUTION

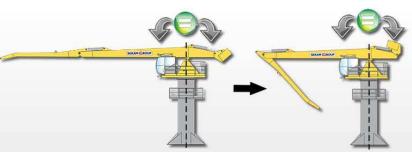
\$100 \$100.20E/\$100.25E/\$100.30E

THE SERAM TECHNOLOGY

The SERAM crane is the only balanced crane by hydraulic system



ONLY THE LOAD IS BEING LIFTED.



Enjoy the unique advantages of the balanced crane



Unequaled operating costs

Up to 80% energy consumption compared to a diesel conventional crane

Diesel Conventional Crane

- 50%

Electric Conventional Crane

- 80%

SERAM Electric Balanced Crane

An exceptional lifetime of the hydraulic components

The average working pressure of a SERAM crane is 55% lower than a conventional crane.

~320 bars ~4650 psi

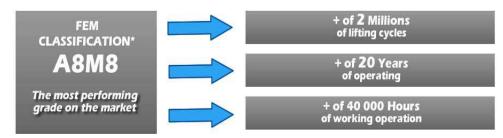
Conventional Crane

~140 bars ~2030 psi

SERAM Balanced Crane

THE SERAM STRUCTURE HE RELIABILITY

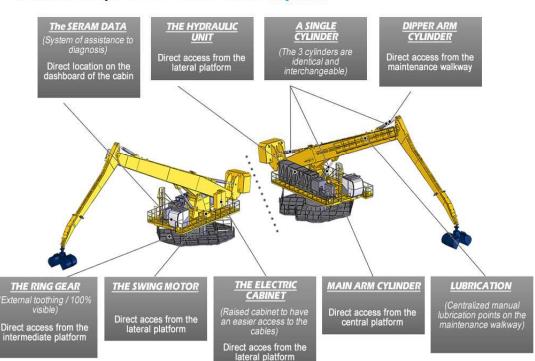
World Reference...



*FEM: European Federation of Materials Handling

THE SERAM MAINTENANCE HE SIMPLICITY

All the main components of the crane have an easy access





MAIN FEATURES

Power	\$100.20E		\$100.25E		\$100.30E	
	100 t.m	33.6 USt.ft	100 t.m	33.6 USt.ft	100 t.m	33.6 USt.ft
Maximum horizontal outreach	20 m	66 ft	25 m	82 ft	30 m	98 ft
Length of the main arm	11.5 m	38 ft	14 m	46 ft	17 m	56 ft
Length of the dipper arm	8.5 m	28 ft	11 m	36 ft	13 m	43 ft

ELECTRIC MOTOR

Power	160 kW (400 volts - 50 hertz) / (480 volts - 60 hertz)
Type of starting	By variable frequency drive

DIESEL GENERATOR

Power 350 kVA

(For crawlers only)

HYDRAULIC SYSTEM

Type of the hydraulic system	Load Sensing	
Hydraulic pumps	Regulating pumps with Load Sensing regulation	
Pump flow for the movements	510 l/min / 135 gal/min	
Average working pressure	140 Bars / 2030 psi	
Pump flow for the rotation	380 l/min (dedicated closed circuit) / 100 gal/min	
Maximum rotation speed	3.5 tr/min	
Hydraulic tank	1600 l / 422 gal	
Cooling	Oil/Air heat exchanger	

WORKING EQUIPMENT

Hydraulic cylinders	250 x 140 x 1750 mm / 9.8 x 5.5 x 68.9 in	
Swing motors	Double radial piston engine with hydraulic safety brake	
Ring gears	Crossed rollers with external toothing	

Support fixed on a concrete base

141 t / 155 USt

154 t / 170 USt

SUPPORT

Fixed support (F)

Total weight of the machine

to finish the body and a principle of the little of the li					
Dimensions of the anchoring base	5000 x 5000 mm / 16.4 x 16.4 ft				
Forces applied on the ground	Fz= 850 kN; Mx=2150 kN:m* 191.1 kipf; 528586 lbf.yd*	Fz= 960 kN; Mx=2250 kN.m* 215.8 kipf; 553172 lbf.yd*	Fz= 1070 kN; Mx=2350 kN.m 240.5 kipf; 577757 lbf.yd*		
Total weight of the machine	78 t / 86 USt	91 t / 100 USt	104 t / 115 USt		
Free Standing support (AS)	Support on 4 sh	noes - No ground anchoring ne be moved if needed	eded - Can		
Dimensions	Base: 6500 x 6500 mm / 21.3 x 21.3 ft 4 shoes: 1500 x 1500 mm / 4.9 x 4.9 ft				
Maximum forces applied on a shoe	Fz= 545 kN* / 122.5 kipf	Fz= 575 kN* / 129.3 kipf	Fz= 600 kN* / 134.9 kipf		
Total weight of the machine	93 t / 103 UST	105 t / 116 USt	117 t / 129 USt		
Trolley on rails (C)	Trolley equipped with 4 boggies, with 2 wheels each				
Dimensions	Wheel base: 6500 x 6500 mm / 21.3 x 21.3 ft Wheels of Boggies Ø630mm / 2.1 ft				
Maximum forces applied on a boggie	Fz= 550 kN* / 123.6 kipf	Fz= 580 kN* / 130.4 kipf	Fz= 605 kN* / 136 kipf		
Total weight of the machine	102 t / 112 USt	115 t / 127 USt	127 t / 140 USt		
Crawlers (Ch)	Base: 6500 x 6500 mm / 21.3 x 21.3 ft				
Dimensions	Width of the crawlers: 800 mm / 2.6 ft Speed: 0 to 2 km/h / 0 to 1.2 mph				
Pression on the ground	12.3 N/cm²* / 17.8 psi	13.5 N/cm²* / 19.6 psi	14.8 N/cm ^{2*} / 21.5 psi		

128 t / 141 USt

SPECIFICATIONS

EQUIPMENTS

ACCESS	
Access ladder to the intermediate platform	•
Access stairway to the intermediate platform	Opt
Maintenance walkway	•
HYDRAULIC UNIT	
Lateral and upper openings allowing a total access to the hydraulic unit	•
Motor pump support equipped with an anti-vibration system - Noise mitigation	•
Enhanced cooling	Opt
Sound insulation	Opt
HYDRAULIC EQUIPMENTS	
Cylinders - Single piece chrome steel rods	•
Cylinders - equipped with safety valves and with load limiters	•
Automatic lubrication of the joints and cylinders	•
Automatic lubrication of the tracks and rollers of the gear	•
Automatic lubrication of the toothing of the gear	Opt



OPERATING CABIN

VISIBILITY

Panoramic windshield	•
2 Pantograph wipers + windshield washer	•
Adjustable sun shades	•
COMFORT	
Reversible air conditioning on the roof of the cabin	
Additional fan heater	•
Heat-insulating laminated glass type Securit	•
Lateral polycarbonate glazing	Opt
Interior lighting	•
FM radio station / MP3 player	•
Briefcase	•
Hydrocarbon resistant, textured floor mat	•
Electrical outlets 220 volts / 110 volts	•
12V cigare lighter socket	Opt
Communication radio	Opt
Starting with breath test	Opt
Pressurization system of the cabin	Opt
Customer's logo on the arm	Opt



ELECTRICAL EQUIPMENTS	
Hydraulic collector - 4 power slip rings 3ph+t	•
Hydraulic collector - Additional switching ring	Opt
High Voltage / Low Voltage transformer	Opt
OPTIONS	
Handling tools (grapple, clamshell, etc)	Opt
Automatic Weighing system	Opt
Fire hose protection	Opt

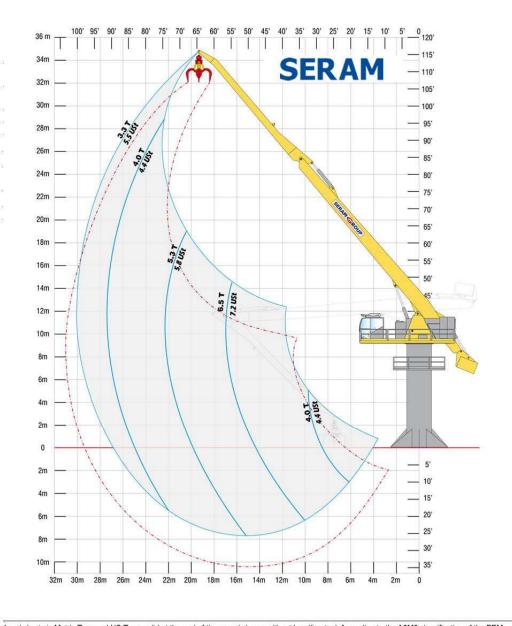


ERGONOMICS	
Ergonomic suspension seat	
Adjustable backrest and armrests	•
Adjustable footrest	•
Operating and control panel of the crane	•
Hydraulic joysticks on the armrests	•
SERAM DATA: Control and defect recording module	
SERAM DATA: GSM module for remote supervision	Opt
SERAM VISION : camera support	Opi
Anti-collision system: driving assistance	Opt
Cabin extension	Opt
Guard screen for the windshield	Opt
Lighting of the working area: 2 x 400W	•
Additional lighting	Opt

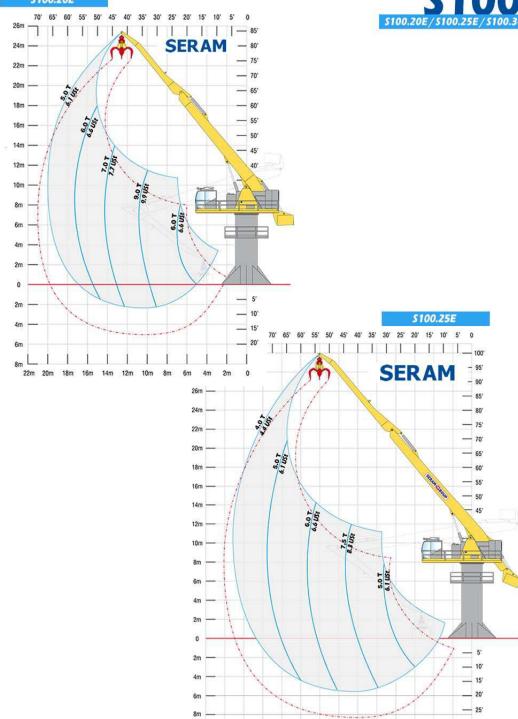


LOAD CHARTS





Load charts in Metric Tons and US Tons, valid at the end of the crane's boom without handling tool. According to the A8M8 classification of the FEM (European Federation of Materials Handling). The loading capacities are valid on a 360° working area.

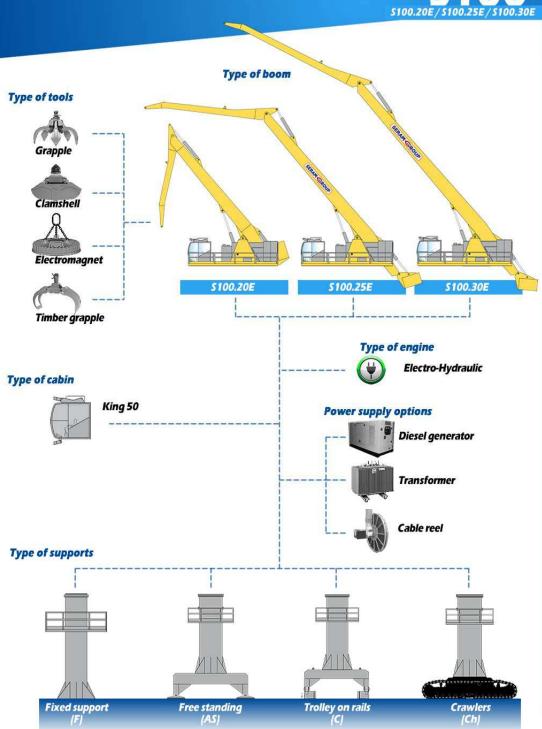


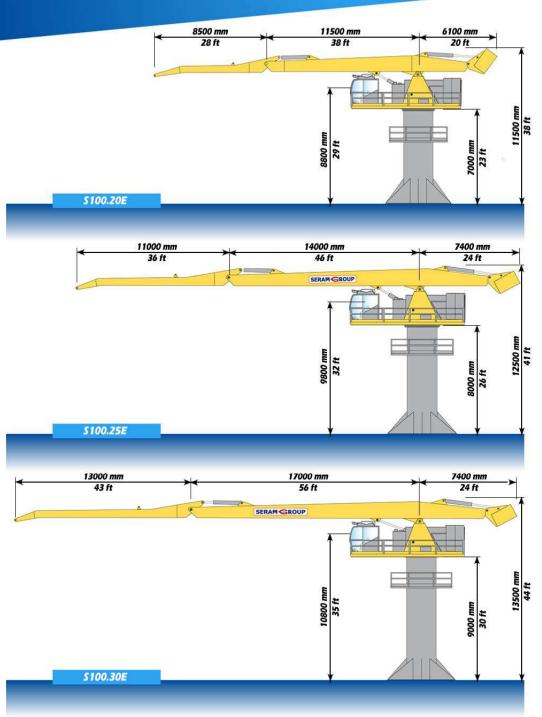
26m 24m 22m 20m 18m 16m 14m 12m 10m 8m

MODULAR SOLUTIONS

\$100 \$100,20E/\$100,25E/\$100,30E

DIMENSIONS









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