SERAM LIFTING BALANCED CRANES

580.20E / **580.25E**







20 m / 25 m 66 ft / 82 ft

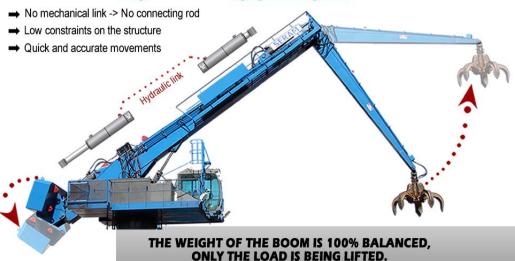


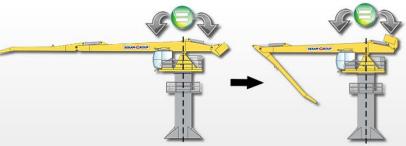
64 t/95 t 71 Ust/105 Ust

THE SERAM HYDRAULIC BALANCING HE EASY AND EFFICIENT SOLUTION

\$80.20E/\$80.25E

The SERAM crane is the only balanced crane by hydraulic system





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

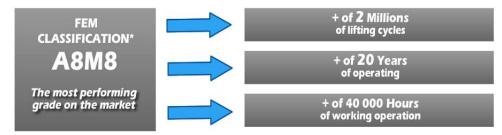
~140 bars ~2030 psi

SERAM Balanced Crane

THE SERAM TECHNOLOGY

THE SERAM STRUCTURE HE RELIABILITY

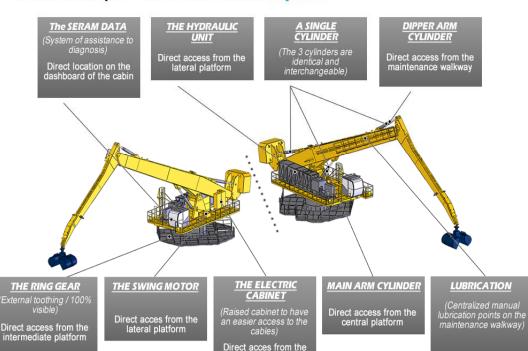
World Reference...



*FEM: European Federation of Materials Handling

THE SERAM MAINTENANCE HE SIMPLICITY

All the main components of the crane have an easy access



lateral platform



MAIN FEATURES

	\$80.20E		\$80.25E	
Power	80 t.m	26.9 USt.ft	80 t.m	26.9 USt.ft
Maximum horizontal outreach	20 m	66 ft	25 m	82 ft
Length of the main arm	11.5 m	38 ft	14 m	46 ft
Length of the dipper arm	8.5 m	28 ft	11 m	36 ft

ELECTRIC MOTOR

Power	110 kW (400 volts - 50 hertz) / (480 volts - 60 hertz)
Type of starting	By variable frequency drive

DIESEL GENERATOR

(For crawlers only)

Power

210 kVA

HYDRAULIC SYSTEM

Type of the hydraulic system	Load Sensing	
Hydraulic pumps	Regulating pumps with Load Sensing regulation	
Pump flow for the movements	415 Vmin / 110 gal/min	
Average working pressure	140 Bars / 2030 psi	
Pump flow for the rotation	155 l/min (dedicated closed circuit) / 41 gal/mir	
Maximum rotation speed	5 tr/min	
Hydraulic tank	775 I / 205 gal	
Cooling	Oil/Air heat exchanger	

WORKING EQUIPMENT

Hydraulic cylinders	250 x 140 x 1415 mm / 9.8 x 5.5 x 55.7 in
Swing motors	Radial piston engine with hydraulic safety brake
Ring gears	Crossed rollers with external toothing

SUPPORT

Fixed support (F)	Support fixed on a	Support fixed on a concrete base	
Dimensions of the anchoring base	4000 x 4000 mm	/ 13.1 x 13.1 ft	
Forces applied on the ground	Fz= 768kN; Mx=1650kN:m* 172.7 kipf; 405659 lbf.yd	Fz= 770kN; Mx=1770kN.m* 173.1 kipf; 435162 lbf.yd	
Total weight of the machine	64 t / 71 USt	68 t / 75 USt	

Free Standing support (AS)	Support on 4 shoes - No ground anchoring needed - Can be moved if needed		
Dimensions	Base: 5500 x 5500 4 shoes: 1500 x 1500		
Maximum forces applied on a shoe	Fz= 335kN* / 75.3 kipf	Fz= 430kN* / 96.7 kipf	
Total weight of the machine	78 t / 86 USt	82 t / 90 USt	

Trolley on rails (C)	Trolley equipped with 4 boggies, with 2 wheels each		
Dimensions	Wheel base: 5500 x 5500 mm / 18 x 18 ft Wheels of boggies Ø630mm / 2.1 ft		
Maximum forces applied on a boggie	Fz= 338kN* / 76 kipf	Fz= 435kN* / 97.8 kipf	
Total weight of the machine	85 t / 94 USt	89 t / 98 USt	
Crawlers (Ch)	Page: 5500 × 6000 r	nm / 10 v 10 7 ft	

	1		
Crawlers (Ch)	Base: 5500 x 6000 mm / 18 x 19.7 ft Width of the crawlers: 600 mm / 2 ft Speed: 0 to 2 km/h / 0 to 1.22 mph		
Dimensions			
Pression on the ground	14.7 N/cm ^{2*} / 21.3 psi	15.3 N/cm²* / 22.2 psi	
Total weight of the machine	106 t / 117 USt	110 t / 121 USt	

SPECIFICATIONS

EQUIPMENTS

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	Opt
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



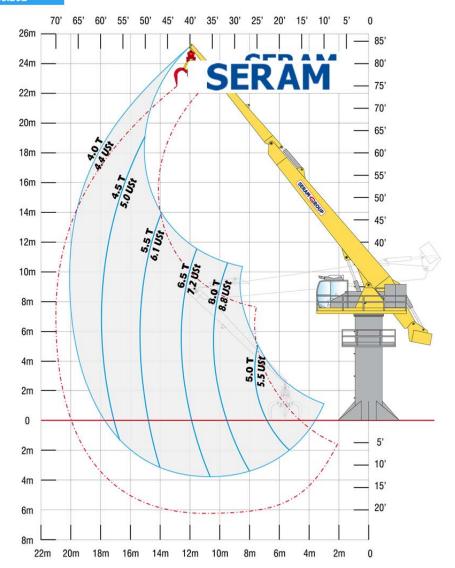
ELECTRICAL EQUIPMENTS	
Hydraulic collector - 4 power slip rings 3ph+t	•
Hydraulic collector - Additional switching ring	Opt
High Voltage / Low Voltage transformer	Opt
OPTIONS	
Handling tools (grapple, clamshell, etc)	Opt
Automatic Weighing system	Opt
Fire hose protection	Opt



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	Opt
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



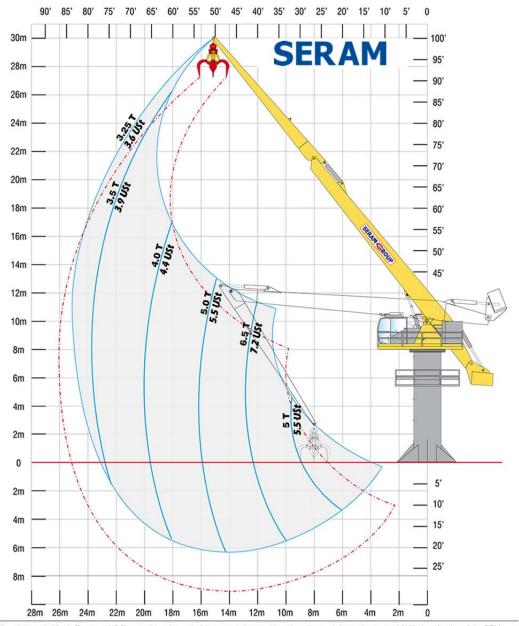
\$80.20E



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.

ABAQUES DE CHARGES

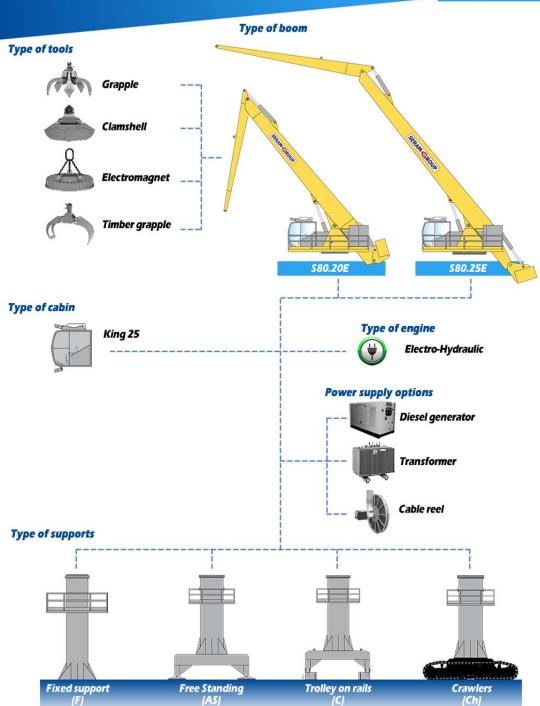
S80.25E



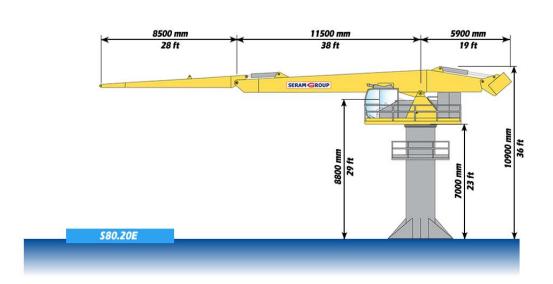
Load charts in Metric Tons and US Tons, valid at the end of the crane's boom without handling tool. According to the A8M8 classification of the FEM (European Federation of Materials Handling). The loading capacities are valid on a 360° working area.

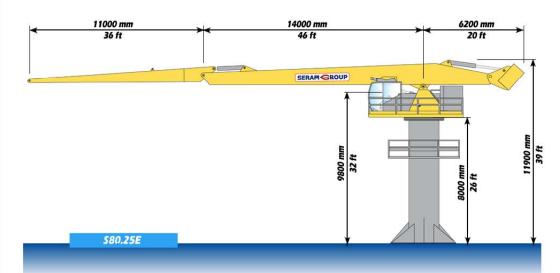
SOLUTIONS MODULAIRES

580580.20E/580.25E



DIMENSIONS









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