SERAM
LIFTING BALANCED
CRANES

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

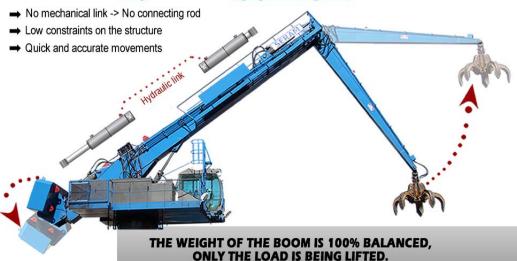
78 t / 134 t 86 USt / 148 USt

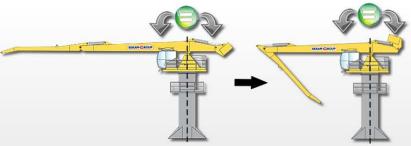


# THE SERAM HYDRAULIC BALANCING HE EASY AND EFFICIENT SOLUTION

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

#### 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

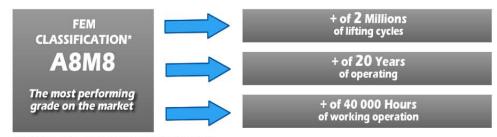
~140 bars ~2030 psi

SERAM Balanced Crane

### THE SERAM TECHNOLOGY

# THE SERAM STRUCTURE HE RELIABILITY

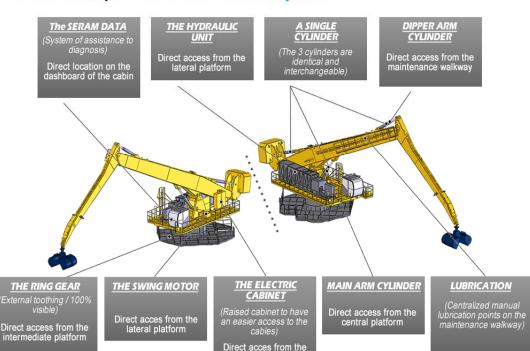
World Reference...



\*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**

	510	00.20E \$100.25E		).25E	S100.30E	
Power	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**

(For crawlers only)

Power 350 kVA

#### **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**

Pression on the ground
Total weight of the machine

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 support (F)	S .	Support fixed on a concrete base		
Dimensions of the anchoring base	5	5000 x 5000 mm / 16.4 x 16.4 ft		
Forces applied on the ground			Fz= 1070 kN; Mx=2350 kN.m*	
	191.1 kipf; 528586 lbf.yd*	215.8 kipf; 553172 lbf.yd*	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	eeded - Can	

Free Standing support (AS)	Support on 4 shoes - No ground anchoring needed - Can be moved if needed			
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 equipp	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			

12.3 N/cm<sup>2\*</sup> / 17.8 psi

128 t / 141 USt

Speed: 0 to 2 km/h / 0 to 1.2 mph

13.5 N/cm²\* / 19.6 psi 141 t / 155 USt 14.8 N/cm<sup>2\*</sup> / 21.5 psi

154 t / 170 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

#### **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

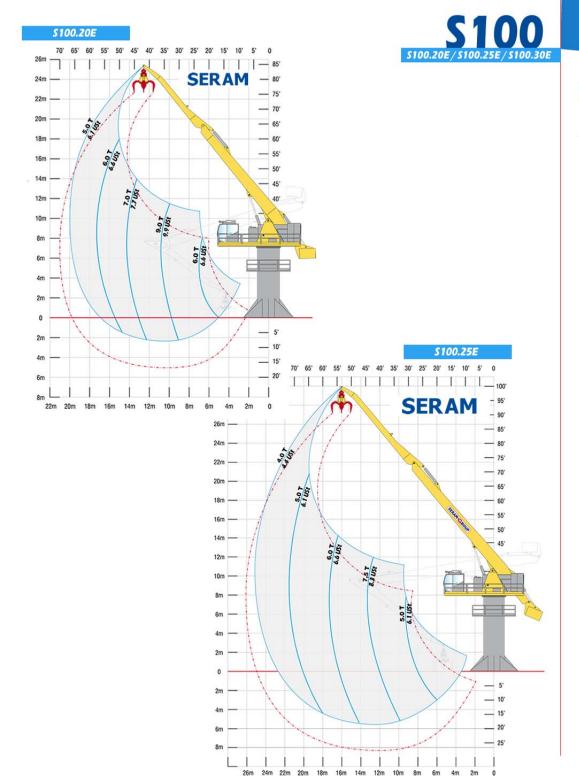


Opt

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

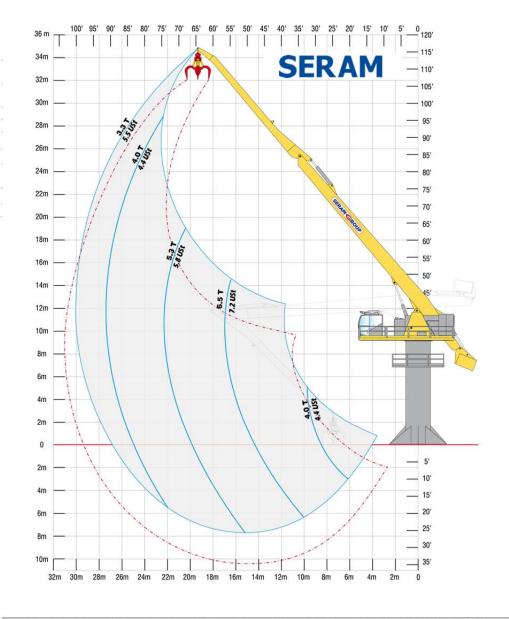


ERGONOMICS	
Ergonomic suspension seat	•
Adjustable backrest and armrests	•
Adjustable footrest	•
Operating and control panel of the crane	•
Hydraulic joysticks on the armrests	•
SERAM DATA: Control and defect recording module	•
SERAM DATA: GSM module for remote supervision	Opt
SERAM VISION : camera support	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



## **LOAD CHARTS**

#### \$100.30E

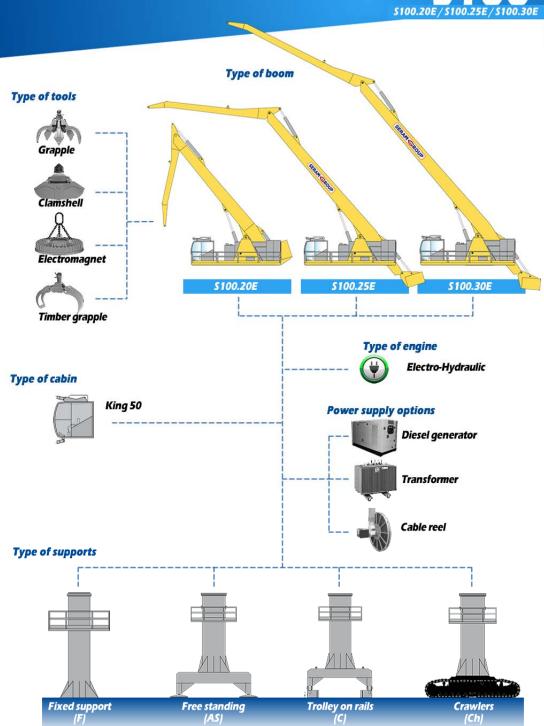


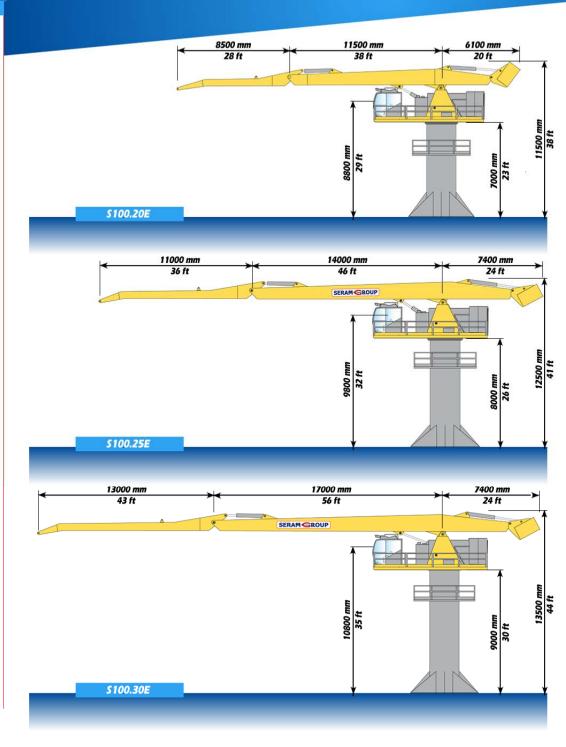
Load charts in Metric Tons and US Tons, valid at the end of the crane's boom without handling tool. According to the A8M8 classification of the FEM (European Federation of Materials Handling). The loading capacities are valid on a 360° working area.

# **MODULAR SOLUTIONS**

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

# **DIMENSIONS**









Your dealer:

# SERAM SERAM SA

817 boulevard Marius Berliet - 66000 Perpignan (France) Tél : 04 68 61 02 28 - seramsa@seram.net

WWW.SERAM.NET