

SERAM

LIFTING BALANCED
CRANES

S40

S40.15E / S40.17E



75 kW



15 m / 17 m
49 ft / 56 ft



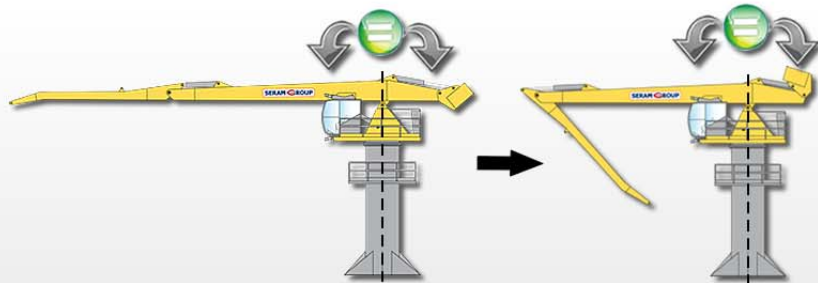
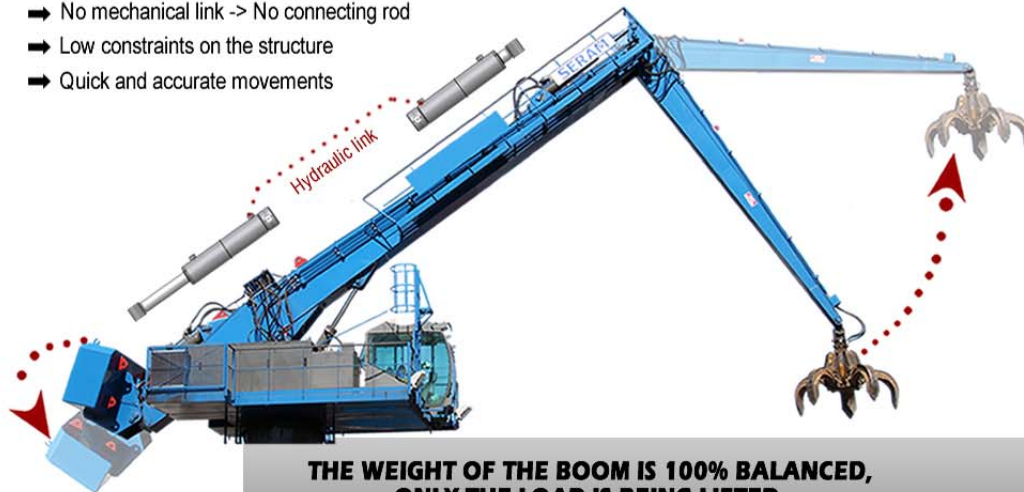
36 t / 46 t
39 USt / 50 USt

THE SERAM HYDRAULIC BALANCING THE EASY AND EFFICIENT SOLUTION

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The SERAM crane is the **only** balanced crane **by hydraulic system**

- No mechanical link -> No connecting rod
- Low constraints on the structure
- Quick and accurate movements



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 THE RELIABILITY

World Reference...

FEM
CLASSIFICATION*
A8M8

The most performing
grade on the market

+ of 2 Millions
of lifting cycles

+ of 20 Years
of operating

+ of 40 000 Hours
of working operation

*FEM: European Federation of Materials Handling

THE SERAM MAINTENANCE THE SIMPLICITY

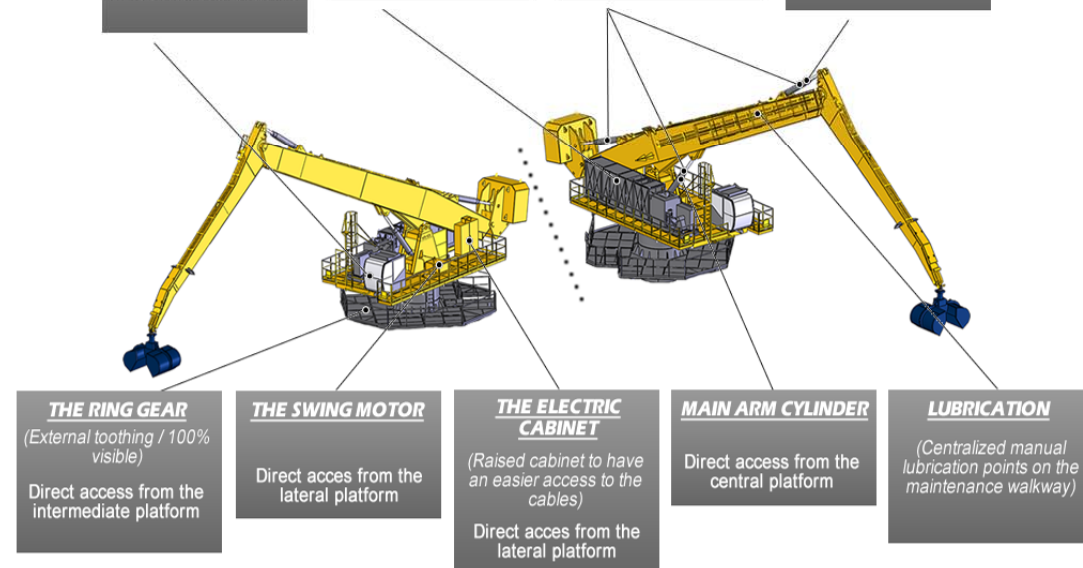
All the main components of the crane have an **easy access**

The SERAM DATA
(System of assistance to diagnosis)
Direct location on the dashboard of the cabin

THE HYDRAULIC UNIT
Direct access from the lateral platform

A SINGLE CYLINDER
(The 3 cylinders are identical and interchangeable)

DIPPER ARM CYLINDER
Direct access from the maintenance walkway





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SPECIFICATIONS

MAIN FEATURES

	S40.15E		S40.17E	
Power	40 t.m	13.4 USt.ft	40 t.m	13.4 USt.ft
Maximum horizontal outreach	15 m	49 ft	17 m	56 ft
Length of the main arm	8.5 m	28 ft	9.5 m	31 ft
Length of the dipper arm	6.5 m	21 ft	7.5 m	25 ft

ELECTRIC MOTOR

Power	75 kW (400 volts - 50 hertz) / (480 volts - 60 hertz)
Type of starting	By variable frequency drive

DIESEL GENERATOR

(For crawlers support only)

Power	125 kVA
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HYDRAULIC SYSTEM

Type of the hydraulic system	Load Sensing
Hydraulic pumps	Regulating pumps with Load Sensing regulation
Pump flow for the movements	195 l/min / 51 gal/min
Average working pressure	140 Bars / 2030 psi
Pump flow for the rotation	80 l/min (dedicated closed circuit) / 21 gal/min
Maximum rotation speed	4 tr/min
Hydraulic tank	775 l / 205 gal
Cooling	Oil/Air heat exchanger

WORKING EQUIPMENT

Hydraulic cylinders	170 x 100 x 1330 mm / 6.7 x 3.9 x 52.4 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 concrete base	
Dimensions of the anchoring base	2350 x 2350 mm / 7.7 x 7.7 ft	
Forces applied on the ground	Fz= 395kN; Mx=760kN.m* 88.8 klpf; 186849 lbf.yd	Fz= 440kN; Mx=780kN.m* 98.9 klpf; 191766 lbf.yd
Total weight of the machine	33 t / 37 USt	36 t / 39 USt

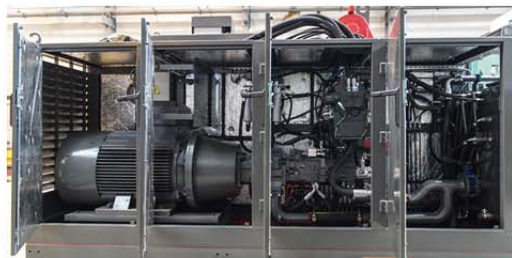
Free Standing support (AS)	Support on 4 shoes - No ground anchoring needed - Can be moved if needed	
Dimensions	Base: 4500 x 4500 mm / 14.8 x 14.8 ft 4 shoes: 1500 x 1500 mm / 4.9 x 4.9 ft	
Maximum forces applied on a shoe	Fz= 240kN* / 54 klpf	Fz= 260kN* / 58.4 klpf
Total weight of the machine	41 t / 45 USt	44 t / 48 USt

Trolley on rails (C)	Trolley equipped with 4 boggies, with 2 wheels each	
Dimensions	Wheel base: 4500 x 4500 mm / 14.8 x 14.8 ft Wheels of boggies Ø400mm / 1.3 ft	
Maximum forces applied on a bogie	Fz= 245kN* / 55.1 klpf	Fz= 265kN* / 59.6 klpf
Total weight of the machine	42 t / 47 USt	45 t / 49 USt

Crawlers (Ch)	Base: 4500 x 5000 mm / 14.8 x 16.4 ft Width of the crawlers: 600 mm / 2 ft Speed: 0 to 2 km/h / 1.22 mph	
Dimensions		
Presson on the ground	8.8 N/cm²* / 12.6 psi	9.3 N/cm²* / 13.4 psi
Total weight of the machine	53 t / 59 USt	56 t / 61 USt

EQUIPMENTS

ACCESS	
Access ladder to the intermediate platform	●
Access stairway to the intermediate platform	Opt
Maintenance walkway	Opt
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



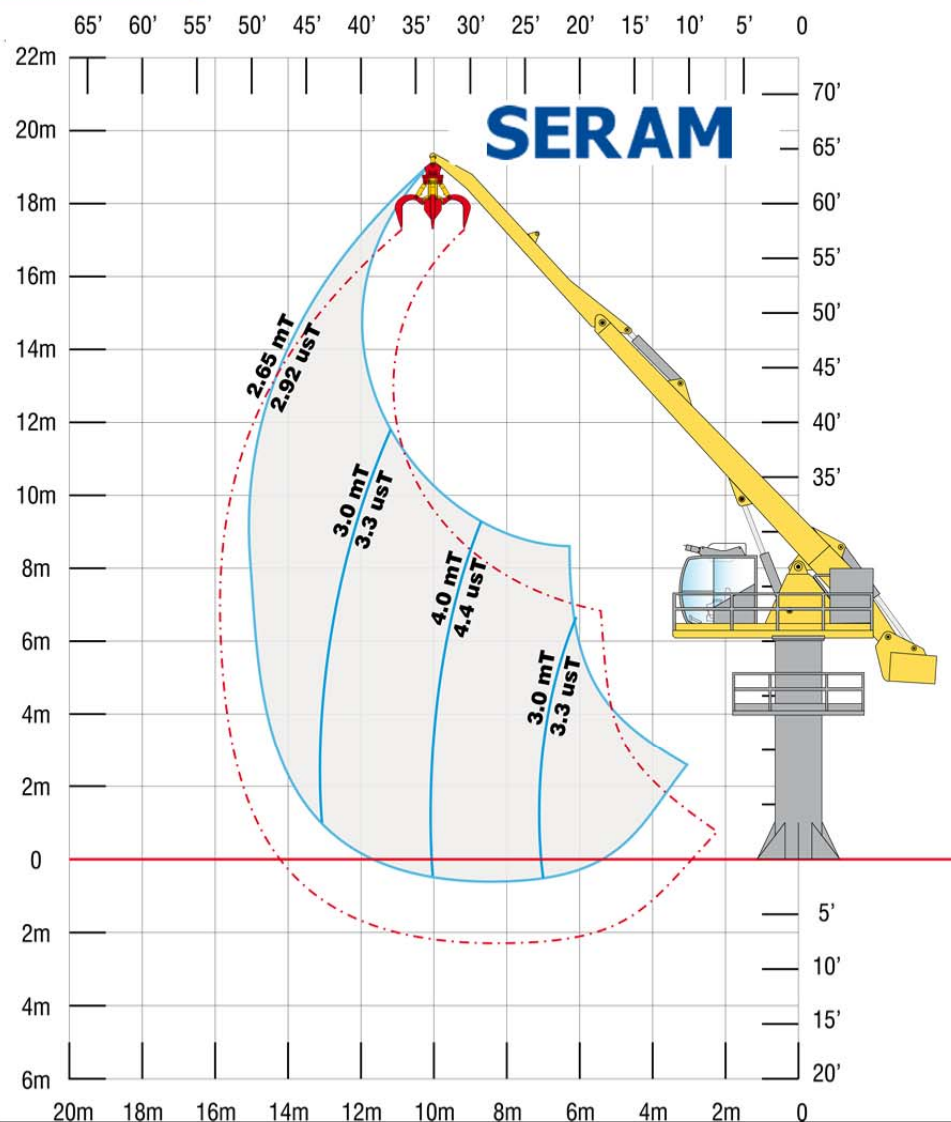
ERGONOMICS	
Ergonomic suspension seat	●
Adjustable backrest and armrests	●
Adjustable footrest	●
Operating and control panel of the crane	●
Hydraulic joysticks on the armrests	●
SERAM DATA : Control and defect recording module	●
SERAM DATA : GSM module for remote supervision	Opt
SERAM VISION : camera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



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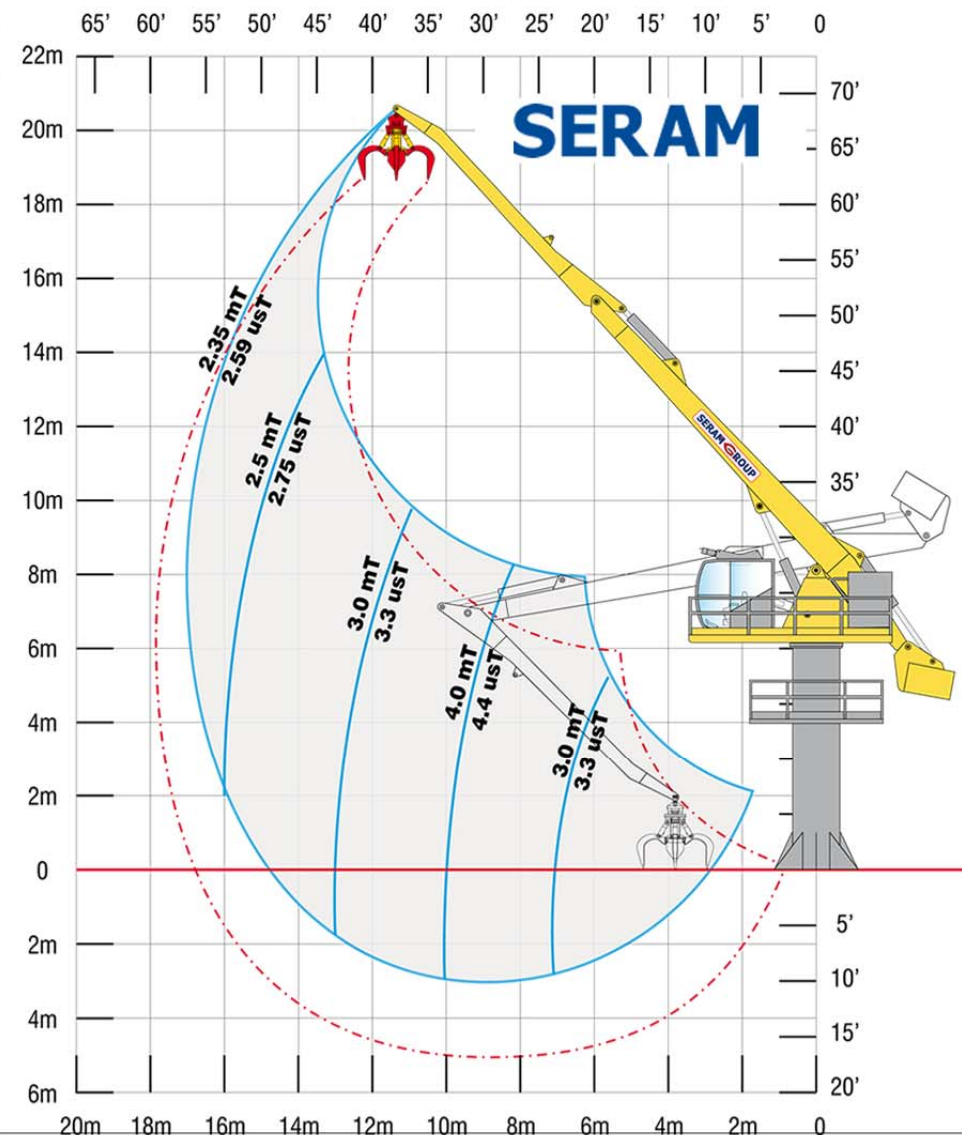
LOAD CHARTS

S40.15E



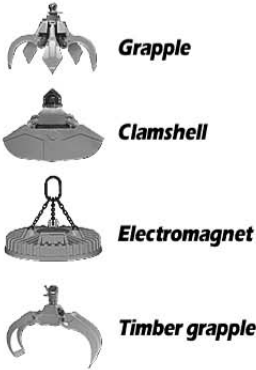
Load charts in Metric Tons and US Tons, valid at the end of the crane's boom without handling tool. According to the A8M8 classification of the FEM (European Federation of Materials Handling). The loading capacities are valid on a 360° working area.

S40.17E

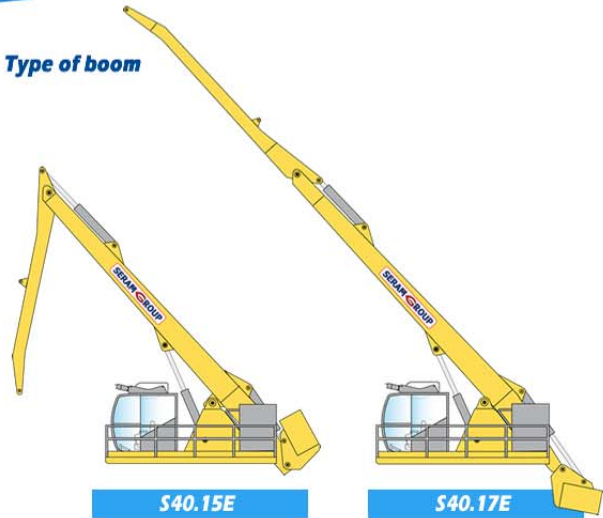


Load charts in Metric Tons and US Tons, valid at the end of the crane's boom without handling tool. According to the A8M8 classification of the FEM (European Federation of Materials Handling). The loading capacities are valid on a 360° working area.

Type of tools



Type of boom



Type of cabin



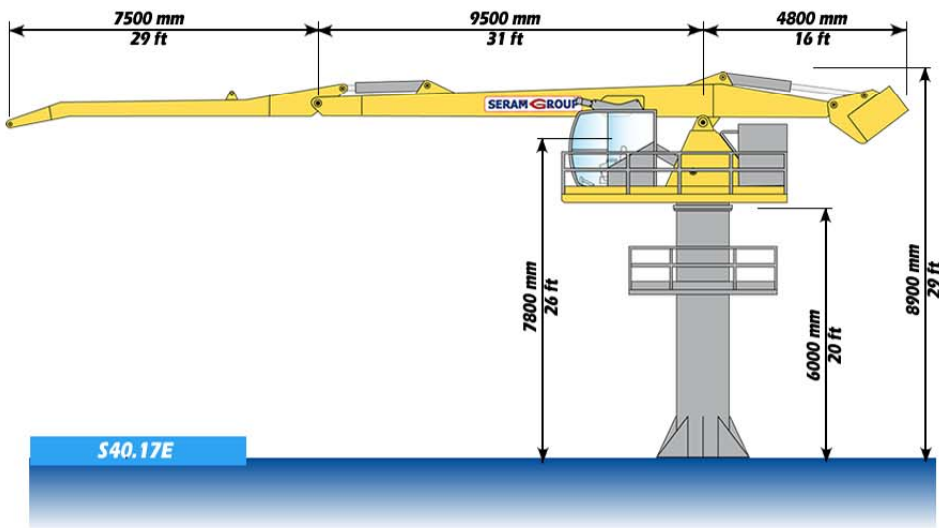
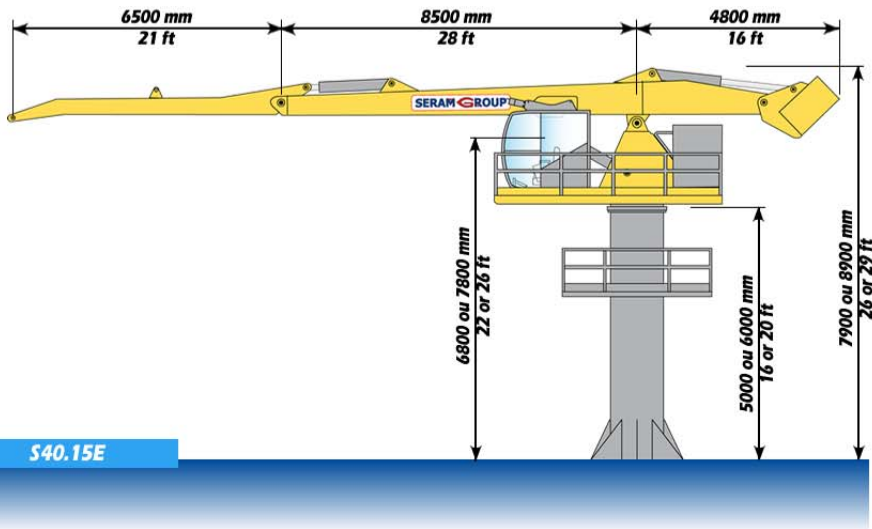
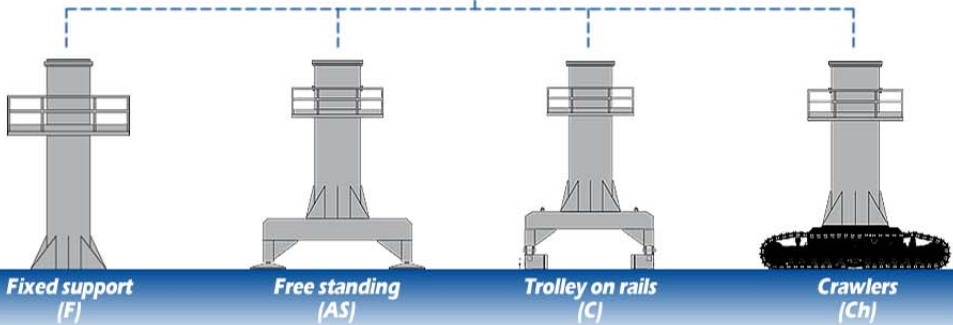
Type of engine



Power supply options



Type of supports



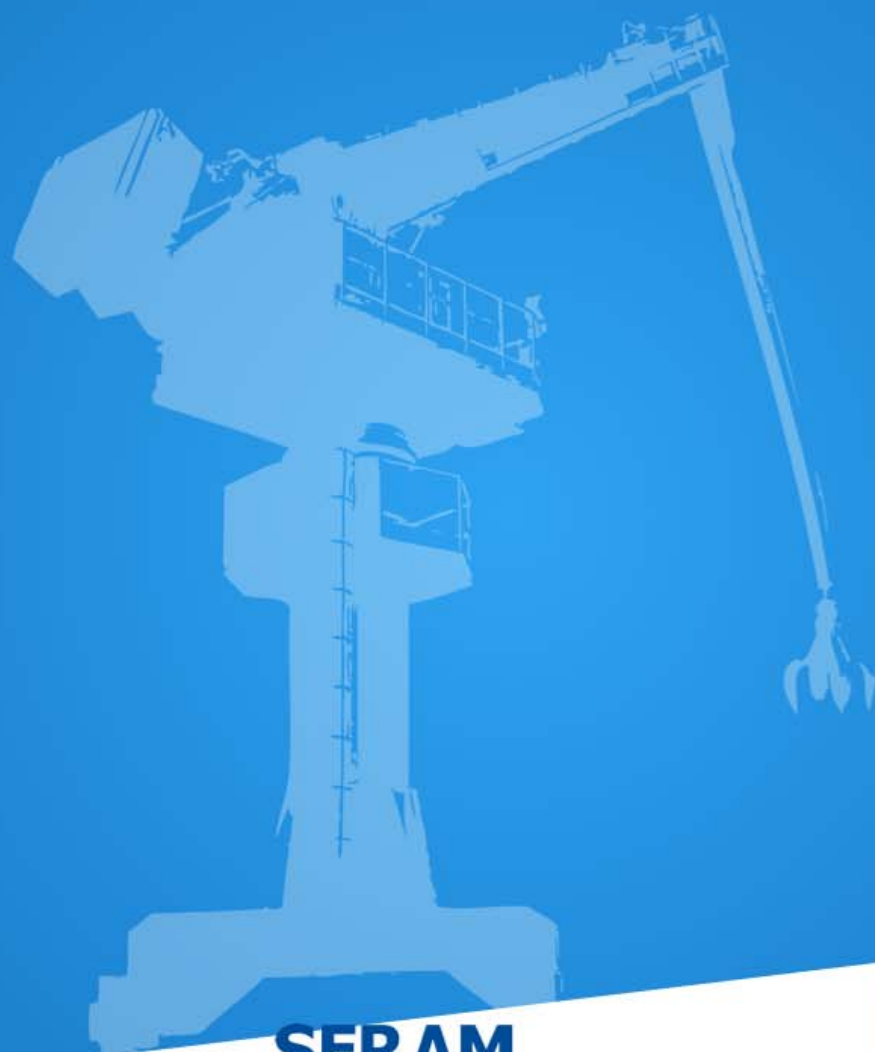
EXAMPLES

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S40

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