

# SERAM

LIFTING BALANCED  
CRANES

# S125

S125.20E / S125.25E / S125.30E



**160** kW



**20 m / 30 m**  
**66 ft / 98 ft**



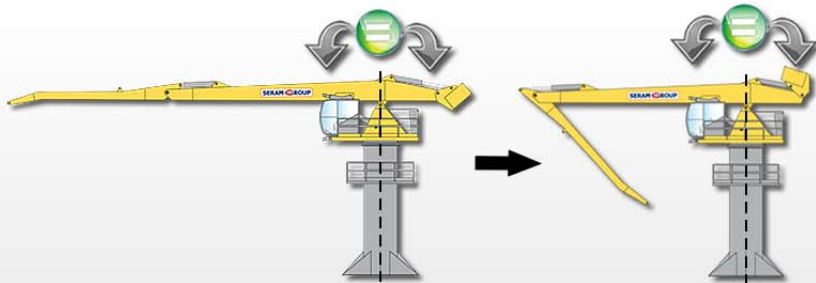
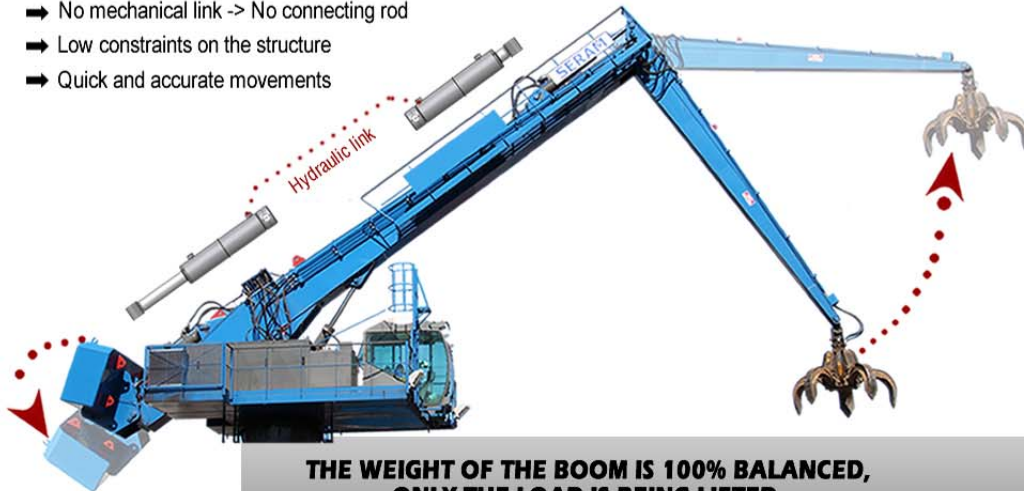
**97 t / 167 t**  
**107 USt / 184 USt**

# THE SERAM HYDRAULIC BALANCING THE EASY AND EFFICIENT SOLUTION

**S125**  
S125.20E / S125.25E / S125.30E

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

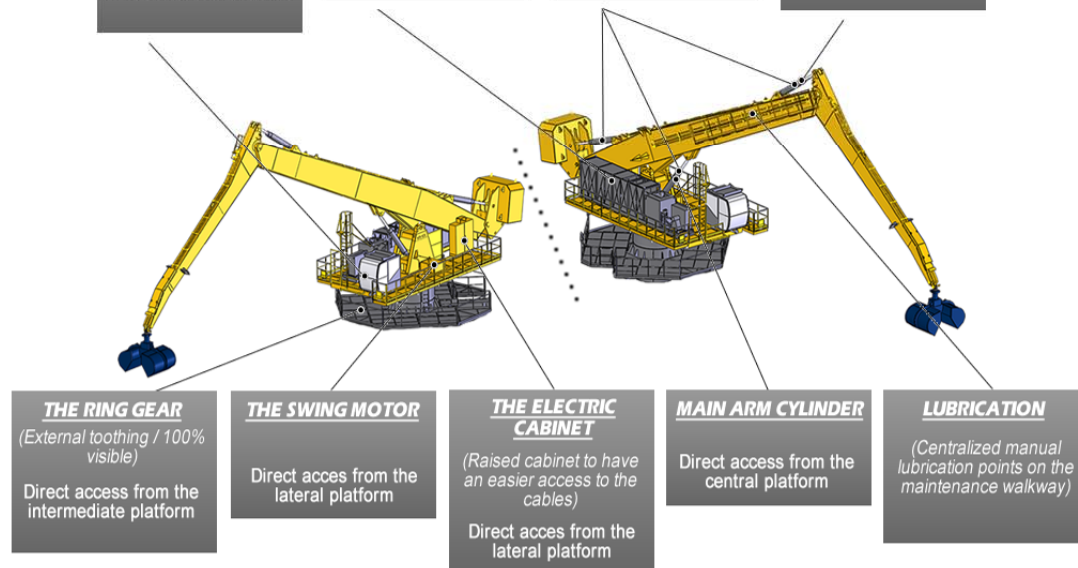
All the main components of the crane have an **easy access**

**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







# SPECIFICATIONS

## MAIN FEATURES

|                             | S125.20E |             | S125.25E |             | S125.30E |             |
|-----------------------------|----------|-------------|----------|-------------|----------|-------------|
| Power                       | 125 t.m  | 42.0 USt.ft | 125 t.m  | 42.0 USt.ft | 125 t.m  | 42.0 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     | 150 Bars / 2176 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

|                                  |  |  |  |
|----------------------------------|--|--|--|
| <b>Fixed support (F)</b>         | Support fixed on a concrete base                         |  |  |
| Dimensions of the anchoring base | 5000 x 5000 mm / 16.4 x 16.4 ft                          |  |  |
| Forces applied on the ground     | Fz= 1310 kN; Mx=2830 kN.m*<br>294.5 kipf, 695767 lbf.yd* | Fz= 1360 kN; Mx=2890 kN.m*<br>305.7 kipf, 710518 lbf.yd* | Fz= 1450 kN; Mx=2930 kN.m*<br>326 kipf, 720352 lbf.yd* |
| Total weight of the machine      | 97 t / 107 USt   | 107 t / 118 USt  | 117 t / 129 USt  |

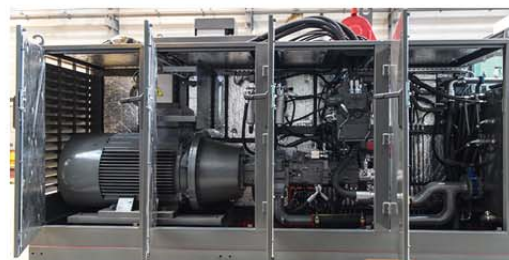
|                                   |   |                          |                          |
|-----------------------------------|---|--------------------------|--------------------------|
| <b>Free Standing support (AS)</b> | Support on 4 shoes - No ground anchoring needed - Can be moved if needed        |                          |                          |
| Dimensions                        | Base: 6500 x 6500 mm / 21.3 x 21.3 ft<br>4 shoes: 1500 x 1500 mm / 4.9 x 4.9 ft |                          |                          |
| Maximum forces applied on a shoe  | Fz= 680 kN* / 152.9 kipf  | Fz= 710 kN* / 159.6 kipf | Fz= 730 kN* / 164.1 kipf |
| Total weight of the machine       | 112 t / 123 USt   | 122 t / 134 USt          | 132 t / 145 USt          |

|                                   |  |                          |                          |
|-----------------------------------|--|--------------------------|--------------------------|
| <b>Trolley on rails (C)</b>       | Trolley equipped with 4 boggies, with 2 wheels each                              |                          |                          |
| Dimensions                        | Wheel base: 6500 x 6500 mm / 21.3 x 21.3 ft<br>Wheels of Boggies Ø630mm / 2.1 ft |                          |                          |
| Maximum forces applied on a bogie | Fz= 701 kN* / 157.6 kipf   | Fz= 730 kN* / 164.1 kipf | Fz= 760 kN* / 170.9 kipf |
| Total weight of the machine       | 121 t / 133 USt  | 131 t / 144 USt          | 141 t / 155 USt          |

|                             |  |                        |                        |
|-----------------------------|--|------------------------|------------------------|
| <b>Crawlers (Ch)</b>        | Base: 6500 x 6500 mm / 21.3 x 21.3 ft<br>Width of the crawlers: 800 mm / 2.6 ft<br>Speed: 0 to 2 km/h / 0 to 1.2 mph |                        |                        |
| Dimensions                  |  |                        |                        |
| Pression on the ground      | 14.1 N/cm²* / 20.5 psi   | 15.9 N/cm²* / 23.1 psi | 16.0 N/cm²* / 23.2 psi |
| Total weight of the machine | 147 t / 162 USt  | 157 t / 173 USt        | 167 t / 184 USt        |

## EQUIPMENTS

|  |     |
|--|-----|
| <b>ACCESS</b>  |     |
| Access ladder to the intermediate platform                                   | ●   |
| Access stairway to the intermediate platform                                 | Opt |
| Maintenance walkway  | ●   |
| <b>HYDRAULIC UNIT</b>  |     |
| 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 |
| <b>HYDRAULIC EQUIPMENTS</b>  |     |
| 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

|  |     |
|--|-----|
| <b>VISIBILITY</b>                                    |     |
| Panoramic windshield                                 | ●   |
| 2 Pantograph wipers + windshield washer              | ●   |
| Adjustable sun shades                                | ●   |
| <b>COMFORT</b>                                       |     |
| 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 |



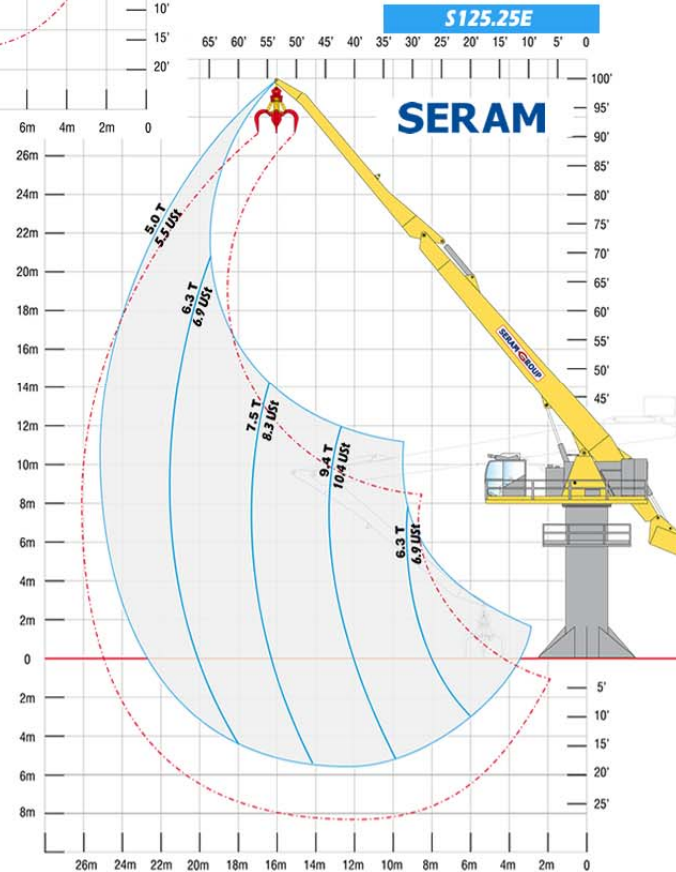
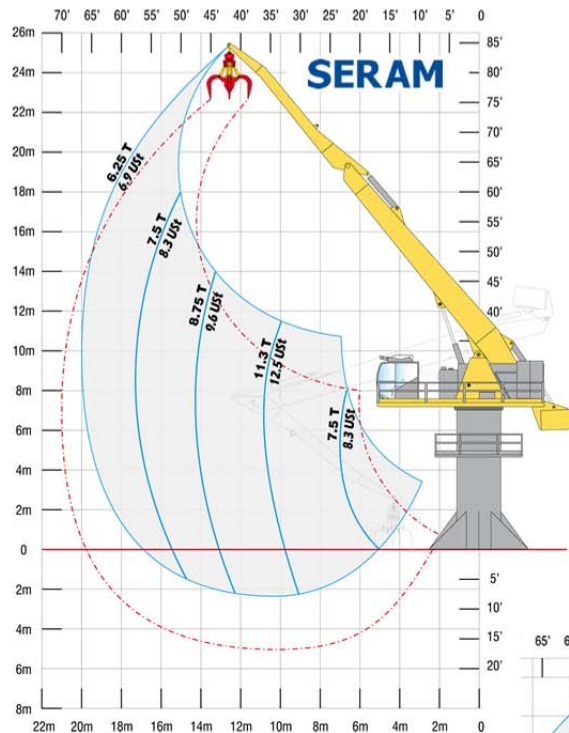
## ELECTRICAL EQUIPMENTS

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

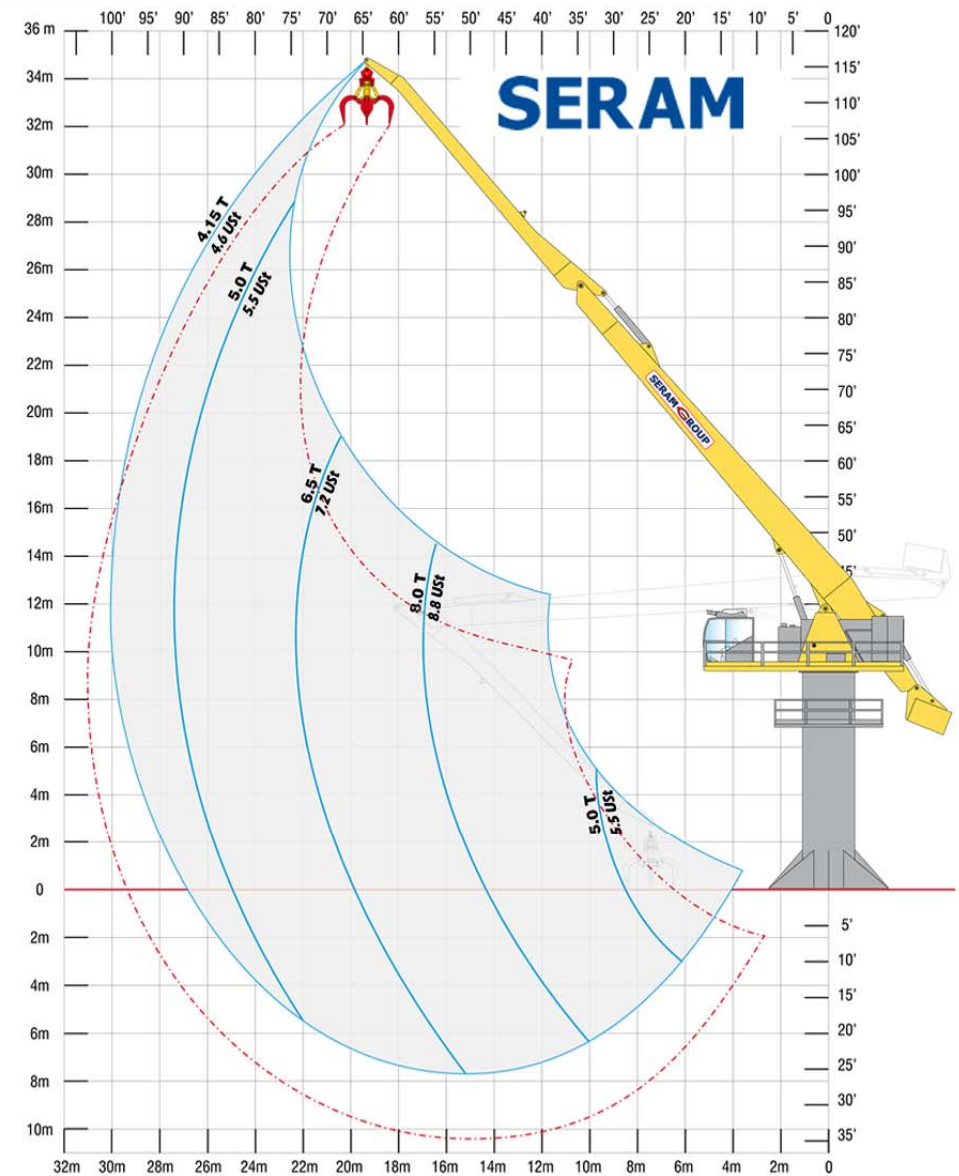


## ERGONOMICS

|  |     |
|--|-----|
| 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 |



S125.30E



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.

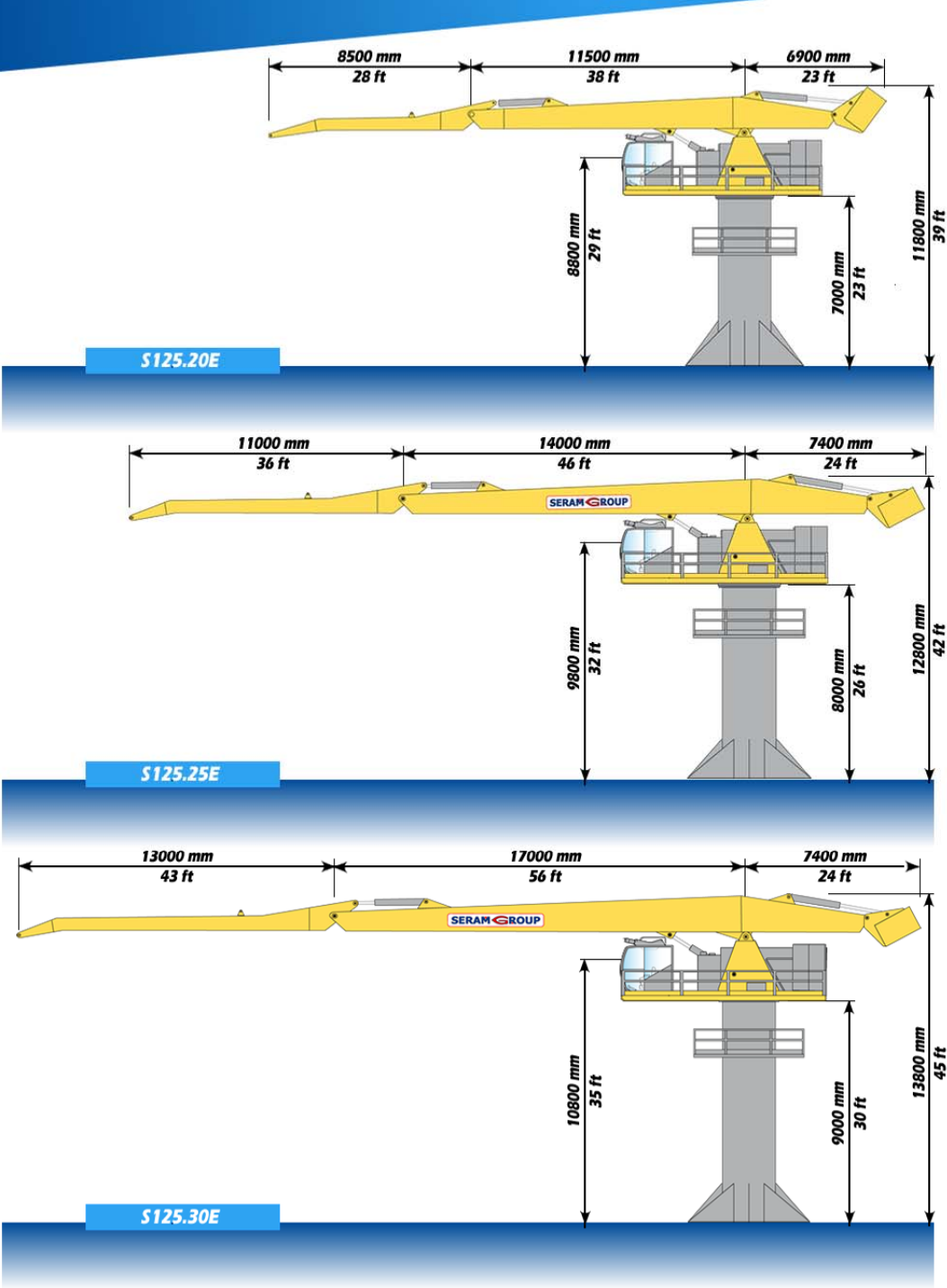
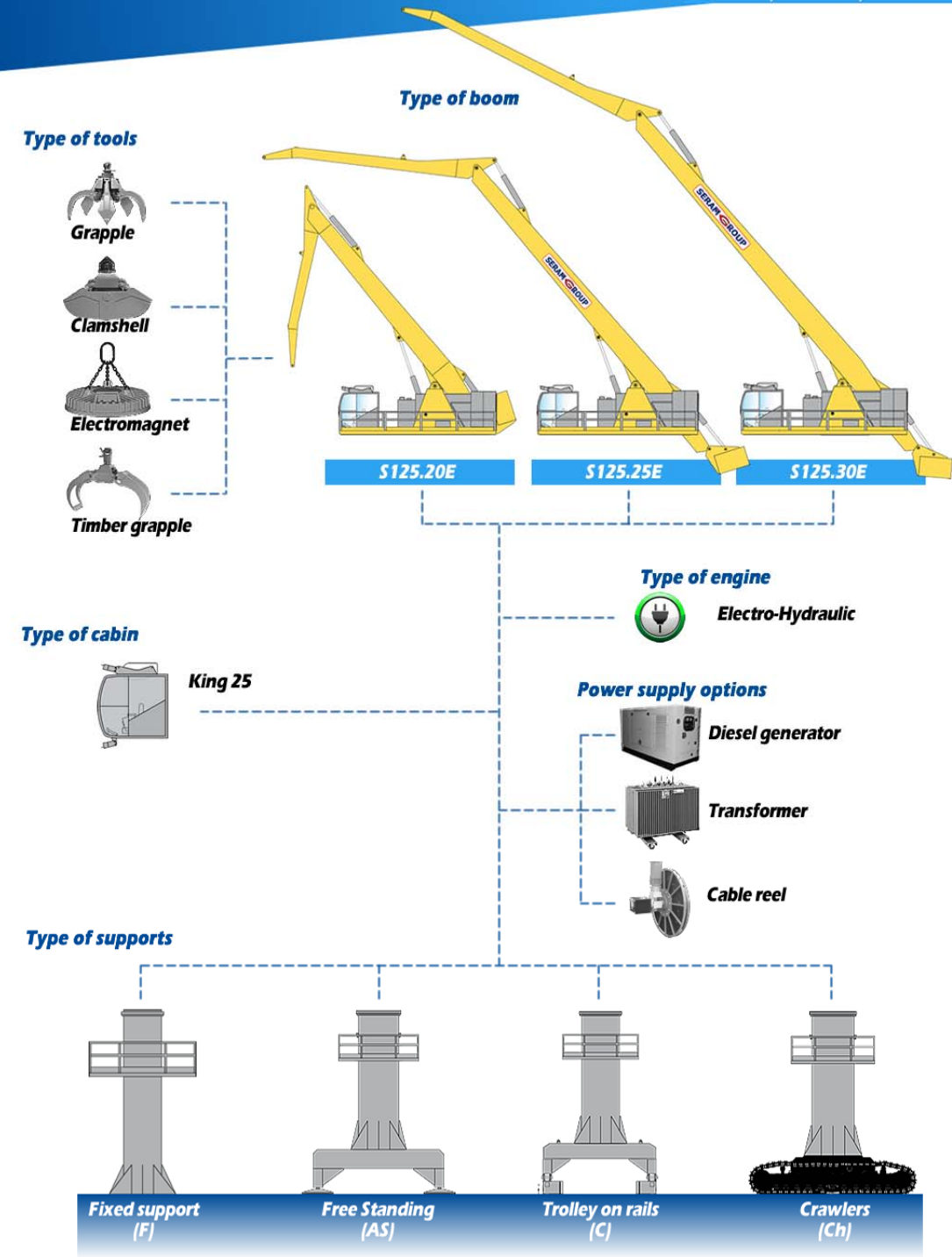


# MODULAR SOLUTIONS

# S125

S125.20E / S125.25E / S125.30E

# DIMENSIONS







# EXAMPLES

**S125**  
S125.20E / S125.25E / S125.30E

# S125

S125.20E / S125.25E / S125.30E



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