



SERAM

Crane Manufacturer since 1973



THE HYDRAULIC BALANCING SYSTEM

THE SIMPLE AND EFFICIENT SOLUTION

ENJOY SOME UNIQUE AVANTAGES OF HYDRAULIC BALANCING SYSTEM, WORLDWIDE PATENTED :

Unequaled energy balance system

The weight of the boom is 100% balanced, only the load is being lifted.
 Energy consumption is reduced:
 - up to 50% compared to a conventional electric crane.
 - up to 80% compared to a diesel conventional crane.

Low pressure hydraulic

The average working pressure is 180 bar, whereas it is nearly 300 bar for a conventional crane.
 The components are designed and tested for a 420 bar pressure.

Result

An exceptional lifetime and reliability of the components.
 Increased safety

Work in flexibility

- Low constraints of the structure
- Rapid and accurate movement
- Exceptional lifetime



THE WEIGHT OF THE BOOM IS 100% BALANCED, ONLY THE LOAD IS BEING LIFTED.



Environmental Benefits

Electric crane

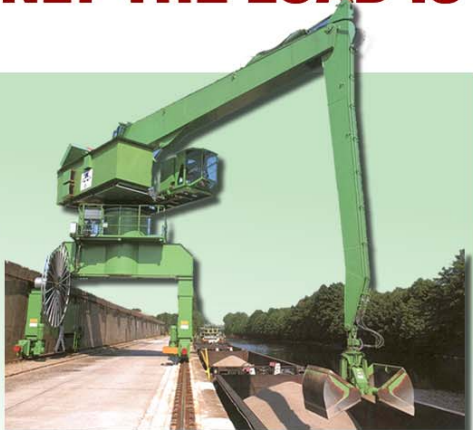
- No release of exhaust
- No engine oil drain

Equilibrium crane

- Low energy consumption

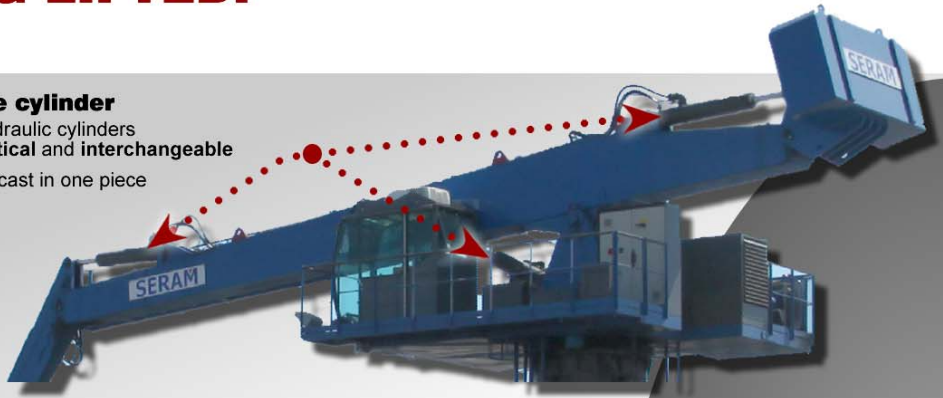
Silent crane

Particularly suitable for "indoor" applications



A single cylinder

3 hydraulic cylinders identical and interchangeable
 Rod cast in one piece




THE RANGE THE VERSATILITY

ENJOY A WIDE RANGE OF SERAM CRANES...
A CRANE FOR EACH FIELD OF APPLICATION...
AN IDEAL SOLUTION FOR HIGH PERFORMANCE

ELECTRICAL BALANCED CRANES BY HYDRAULIC SYSTEM

S40



75 kW 36 - 46 t

2.65t - 15m

2.35t - 17m

80 t/h*

S65




90 kW 58 - 82 t

3.2t - 20m

175 t/h*

S80




110 kW 64 - 94 t

4t - 20m

3.2t - 25m

245 t/h*

S100



160 kW 78 - 124 t


5t - 20m

4t - 25m

3.3t - 30m

340 t/h*

S125



160 kW 107 - 150 t


6t - 20m

5t - 25m

4.1t - 30m

380 t/h*

S150



200 kW 117 - 194 t

6t - 25m

5t - 30m

4.2t - 35m

400 t/h*

S200



250 kW 149 - 222 t


8t - 25m

6.6t - 30m

5.7t - 35m

490 t/h*

S250



250 kW 175 - 250 t

10t - 25m


8.3t - 30m

7t - 35m

620 t/h*

CONVENTIONAL CRANES

S200



75 kW 21 - 33 t

2t - 10m

1.6t - 12m

45 t/h*

S30 / S35



75 kW 24 - 38 t

3t - 10m

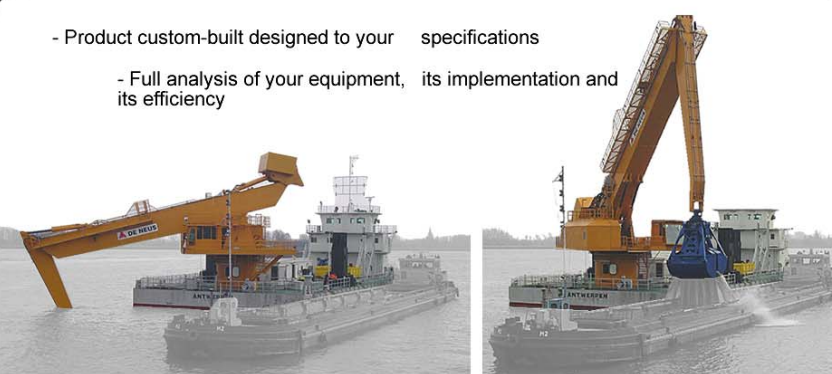
2.5t - 12m

2t - 15m

65 t/h*

CUSTOM-BUILT CRANES

- Product custom-built designed to your specifications
- Full analysis of your equipment, its implementation and its efficiency



Example: Crane on the barge - power 40t at 35m

SUPPORTS OF CRANES

- FIXED PEDESTAL**
Support is anchored on a concrete slab
- FREE STANDING**
No anchoring on the ground is necessary
Easy to move
- TROLLEY**
For a vast working zone
- GANTRY**
Suitable when trucks have to pass under the crane
- CRAWLERS**
Total autonomy of the crane thanks to the hybrid system
- BARGE**
Economical alternative to the construction of a dock

EQUILIBRIUM CRANES BI-ENERGY

- Self moving with diesel generator
- Stationary working with electrical supply



- Low energy consumption
- Reduced operating costs



OPTION POWER BOOSTER



- Increased lifting capacity in low speed mode

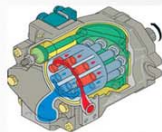
+20% additional power

* Average capacity product with a density 1. The schedule capacity depends of the environment of the machine, the nature of the product handled and the crane operator

ECONOMY ERGONOMY

A CONFIRMED TECHNOLOGY

↳ LOAD SENSING



Hydraulic unit equipped with "load sensing" distributor and variable delivery pumps.

- Exceptional energy balance
- Increased service life of hydraulic components
- Low noise level
- Reduced oil temperature rise

↳ SERAM ECO



Re-use of braking energy for other movements

- Reduced power consumption
- Reduced operating cost

↳ SERAM DATA



Device dedicated to supervisory control

- Preventive maintenance
- To diagnosis aid
- Anticipating needs of consumables
- Reduction of potential risks of breakdown

GSM module for SERAM technical assistance



↳ SERAM VISIO



Remote camera device

- Driver Assistance



↳ FIRE PROTECTION

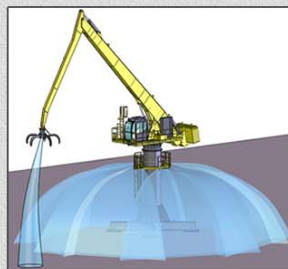


Creation of a water screen around the crane

- Person and machine protection

Fire hose installed on the arm

- Fire fighting against a fire
- Simple and accurate guidance



CABIN ALL CONFORT

↳ VISIBILITY:

- 55% of the total glass surface
- Horizontal Vision 270°
- Vertical Vision 150°
- Swivel sun visor
- 2 windshield wiper pantographs



↳ CONFORT:

- Swivel seat, adjustable back rest, armrest and footrest
- Armrest for access to workstation
- Thermic and phonic insulation
- The cabin is mounted on silent blocks

↳ EQUIPMENTS

- Interior ceiling lighting
- Electric heating
- Radio FM / CD Player
- Ergonomic control system
- Reversible Air-conditioning on the roof of cabin
- Laminated green athermic glass type Securit
- Document case
- Resistance material to hydrocarbons
- Electric jack 220V



THE MAINTENANCE FACILITY



EASY ACCESS TO ALL COMPONENTS

SERAM data
Located in the cabin



Maintenance assistance
To diagnosis aid

Hydraulic unit
Access from the platform side





A single cylinder




3 identical and interchangeable hydraulic cylinders

Cylinder of dipper arm
Access via the maintenance footbridge of the main arm



Lubrication



Centralization of manual lubrication points on the gateway

Slewing bearing
Access from the intermediate platform



external teething - 100% visible

Slewing motor
Access from the intermediate platform



Electrical box
Access from the lateral platform

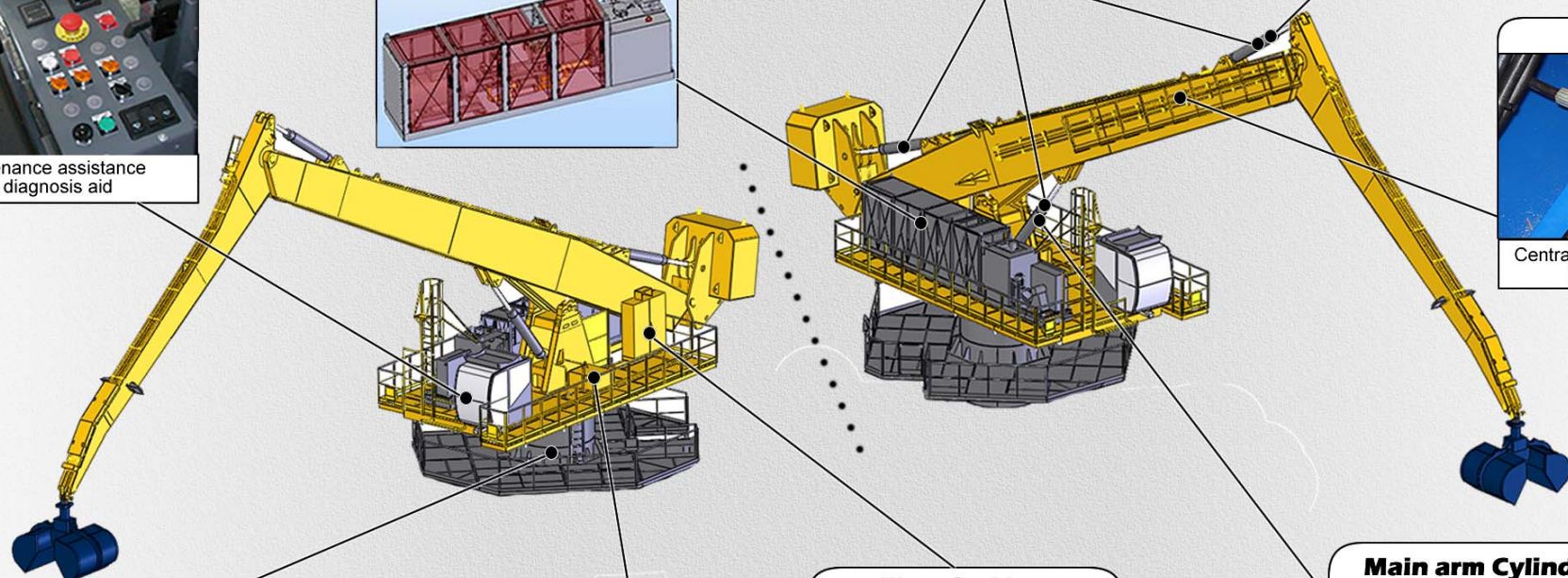


elevated from the ground to facilitate access to cables connections

Main arm Cylinder
Access from the central platform



Handling ring under its arm to allow the use of a hoist



S40.17E

FIXED SUPPORT



SHEAR FEEDING

S65.20E

FREE STANDING SUPPORT



SHEAR FEEDING



S80.25E

FREE STANDING SUPPORT



SHREDDER FEEDING

S80.25E

ON CRAWLERS



SCRAP HANDLING

S100.25E

FREE STANDING SUPPORT



SHREDDER FEEDING

S150.15E

ON GANTRY



LOG HANDLING

S150.35E

ON TROLLEY



DOCK SITE APPLICATION / BULK - HEAVY LIFT

S200.30E

ON GANTRY



DOCK SITE APPLICATION / BULK - HEAVY LIFT

S250.25E

FIXED SUPPORT



DOCK SITE APPLICATION / CLINKER - CEMENT

S250.30E

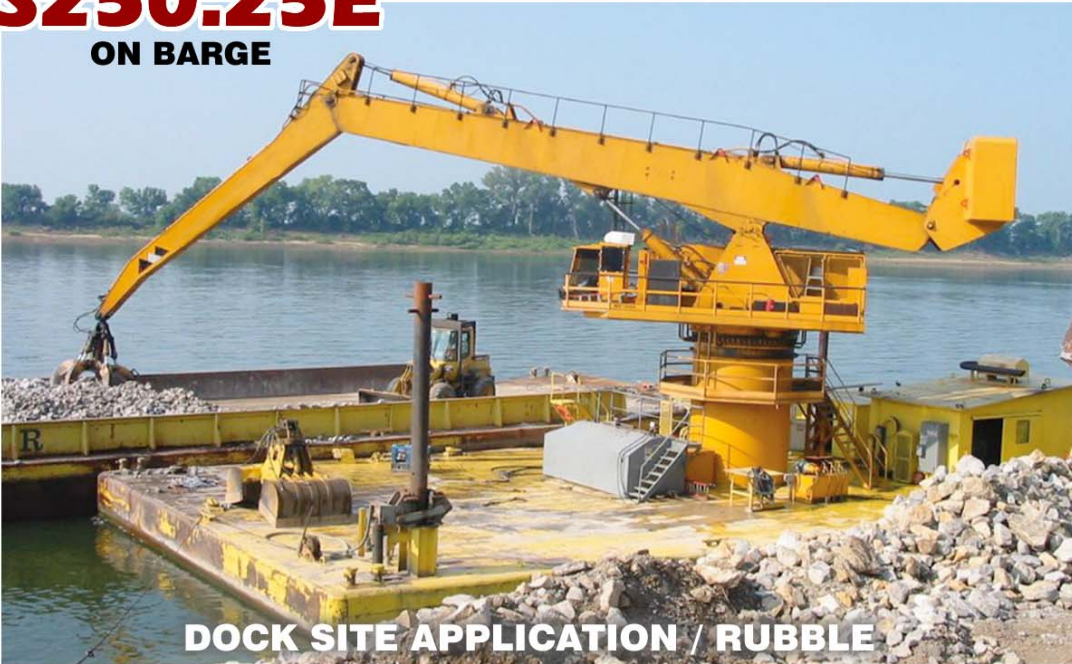
ON GANTRY



STEEL MILLS

S250.25E

ON BARGE



DOCK SITE APPLICATION / RUBBLE

S880.35E

ON BARGE



DREDGING

FAST

EASY

EFFICIENT

SERAM

Crane Manufacturer since 1973

100% French Manufacture

Classification A8M8 (FEM 1.001)

OUR SERVICES TO CUSTOMERS:

Large stock of spare parts for a worldwide SERAM Fleet

After Sales Service 365 days a year
on all 5 continents

Maintenance Contract / Full Service Contract



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