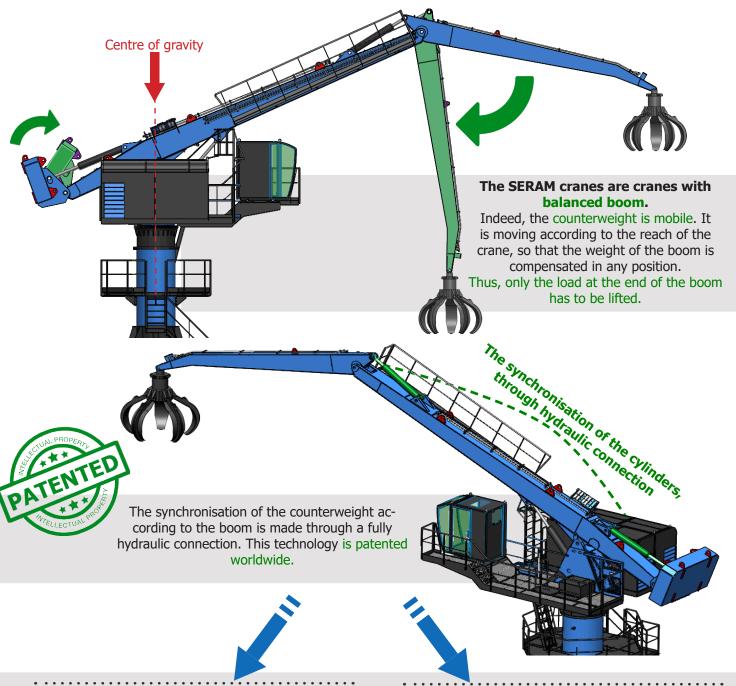


EQUILIBRIUM HANDLING CRANE

Equilibrium SERIES ES320, ES322



The Hydraulic Balance System



Unequalled operating costs

Up to 80% of energy savings compared to a thermic excavator

Thermic excavator

100%

Electrical non balanced excavator

50%



Electrical balanced crane SERAM

25%

75% savings

Low working pressure = Exceptional lifetime

The average working pressure is half lower than for a conventional excavator, the components are then less sollicitated, for the same performances

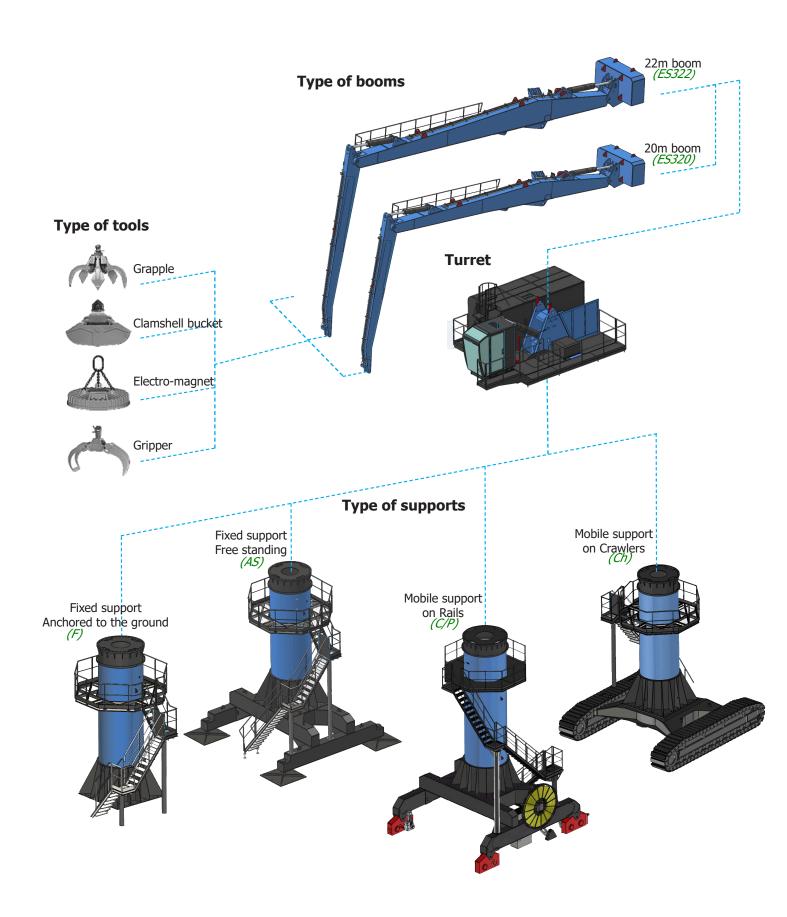
Non balanced excavator

~320 bars

Electrical balanced crane SERAM

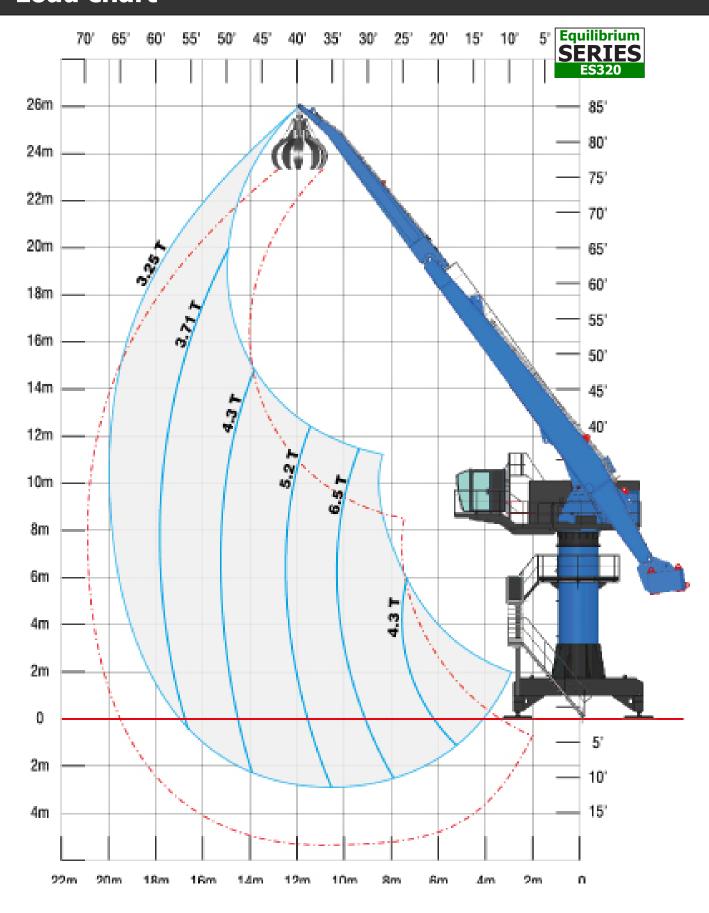
~150 bars

The different components

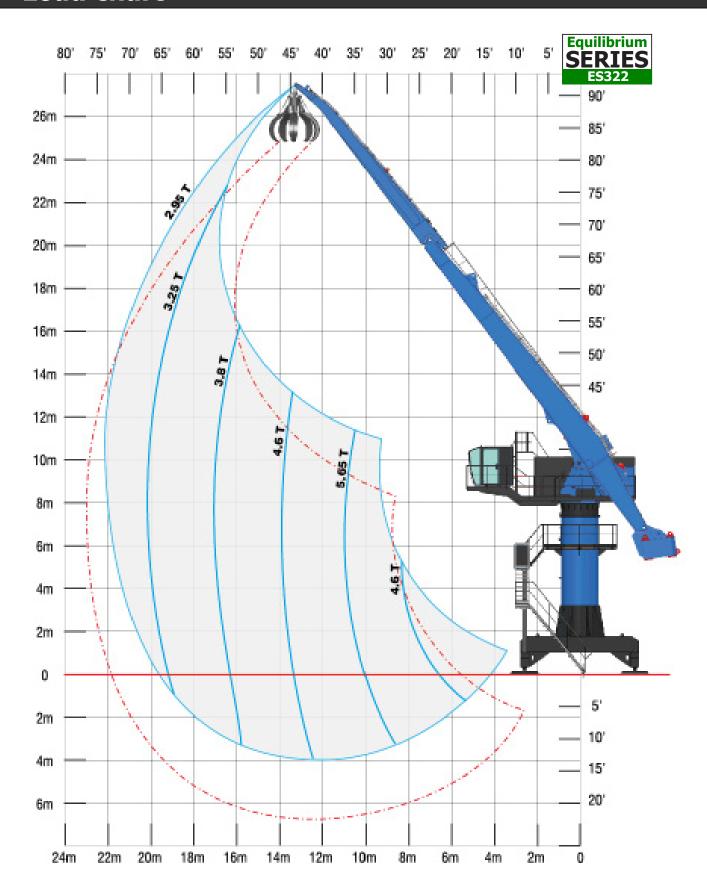


SERIES 3

Load chart



Load chart



Technical data

GENERAL FEATURES	ES320	ES322
Power	65 t/m	65 t/m
Horizontal maximum reach	20 m	22 m
Lifting capacity at full reach	3.25 t	2.9 t
Length of the main arm	11.5 m	12.5 m
Length of the dipper arm	8.5 m	9.5 m
Weight (with free standing support)	72 t	74 t
ELECTRICAL SYSTEM	<u> </u>	I I
Power of the main electrical motor	90 kW	
Type of start of the main motor	Star-delta or speed drive	
Voltage	400V / 480V / 600V - 50Hz/60Hz	
HYDRAULIC SYSTEM		
Pumps for the movements of the boom	210 сс	
Average working pressure	160 bars	
Pump for rotation	105 cc	
Capacity of the tank	1000 litres	
Filtration	2 filters of 10 microns	
Cooling system	In line	
Lubricating system	1 group with 3 separated circuits	
ROTATION		
Rotation motor	1 motor MS50	
Ø of the ring gear	Ø 1790mm	
Rotating speed	4 rpm	
CYLINDERS		
Type of cylinders	200mm x 120mm x 1450mm	
TYPE OF SUPPORT		
Fixed support anchored to the ground	Base of 4m x 4m - Ht: 8m	
Fixed support, free standing	Chassis of 5.5m x 5.5m - Ht: 8m	
Mobile support on rails	Trolley of 5.5m x 5.5m - Ht: 8m	
Mobile support on crawlers	Upon request	

OPERATING CABIN

- New raised and advanced operating cabin, in order to optimize the overview in the different feeding areas (shears, shredders, vessels, etc...).
- Large glazed area, athermic and safety type.
- Comfortable standard equipment: manipulators with control console, reversible air conditioning, control and monitoring screen, adjustable driver seat, MP3 player, etc...



SERIES 3

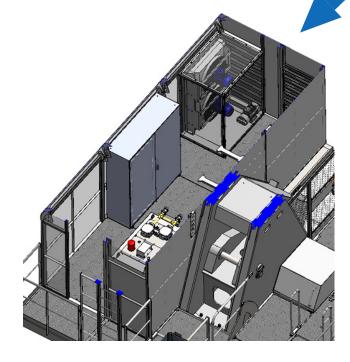
Technical data

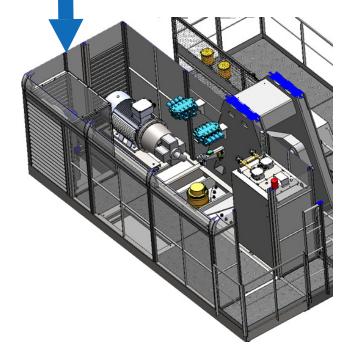
MACHINE ROOM

The machine room now includes the entire motor pump group, but also the coolers and the electrical cabinet. A set designed for easy and accessible maintenance.

This machine room can be thermally insulated and equipped with a heating system, for use in the cold countries.















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SERAM did not wait for the climate emergency to manufacture clean machines, since SERAM has chosen electricity to power its cranes from 1973.

SERAM patented **the balanced boom in 1984**, saving 45% of electrical energy*.

SERAM - An Ecological and Economic Awareness

