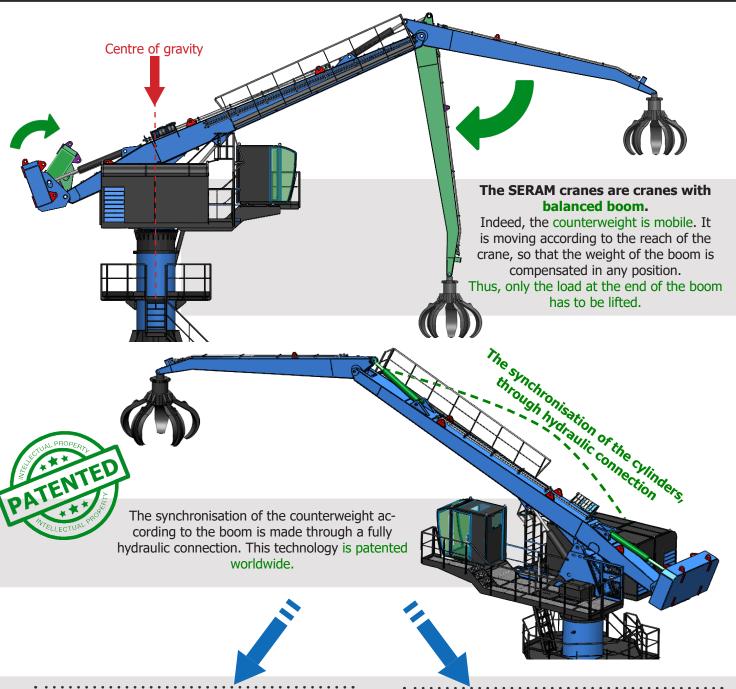


EQUILIBRIUM HANDLING CRANE

SERIES ES215, ES216, ES217, ES218



The Hydraulic 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% of 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

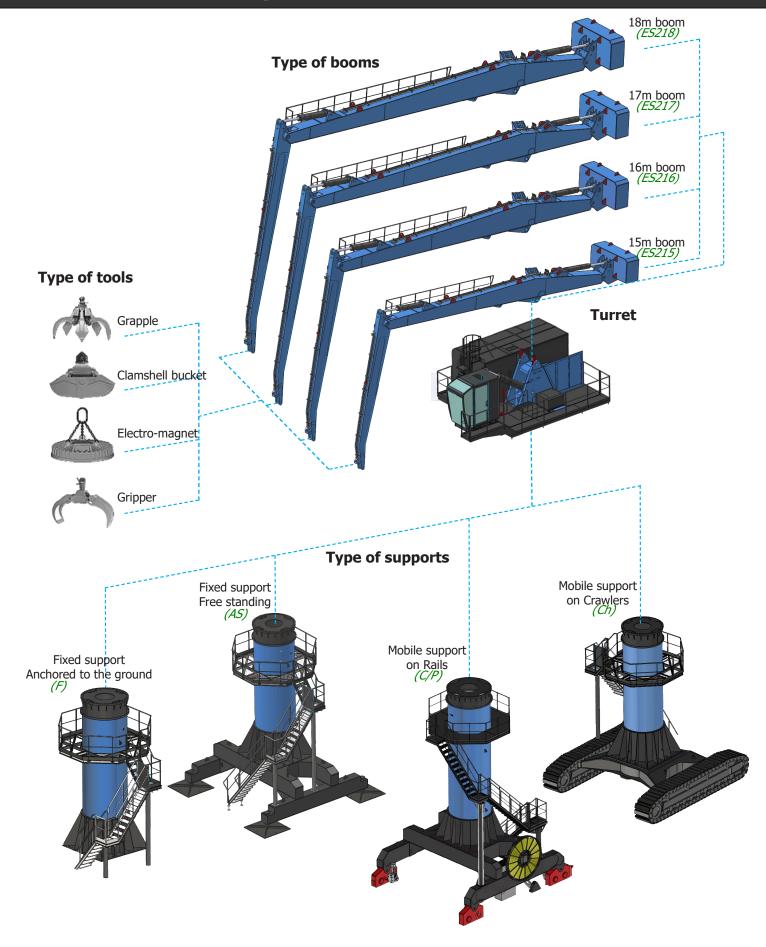
Non balanced excavator

~320 bars

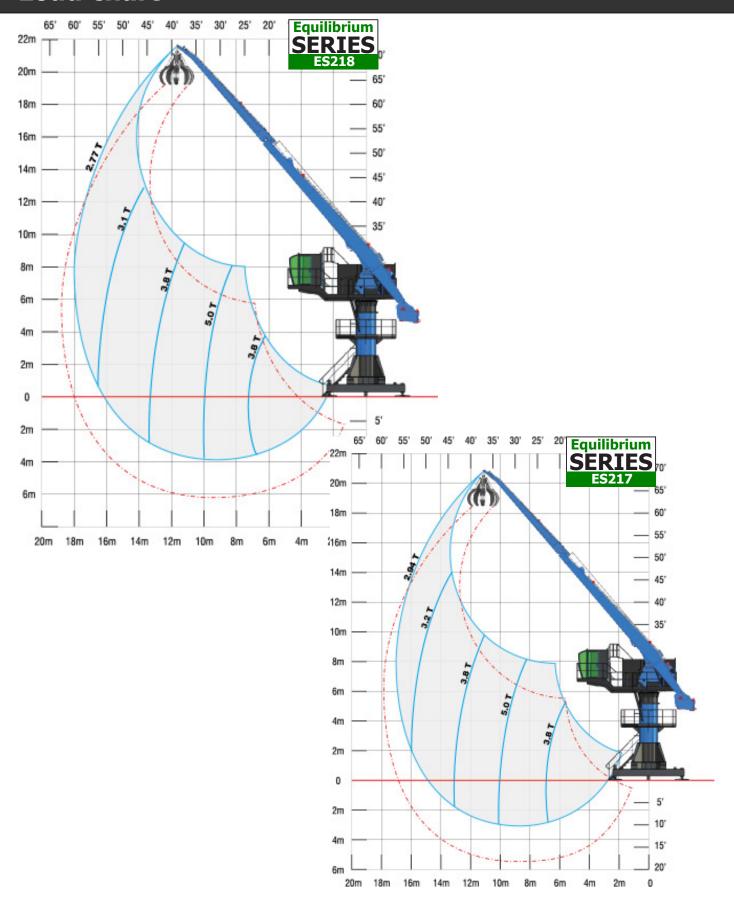
Electrical balanced crane SERAM

~150 bars

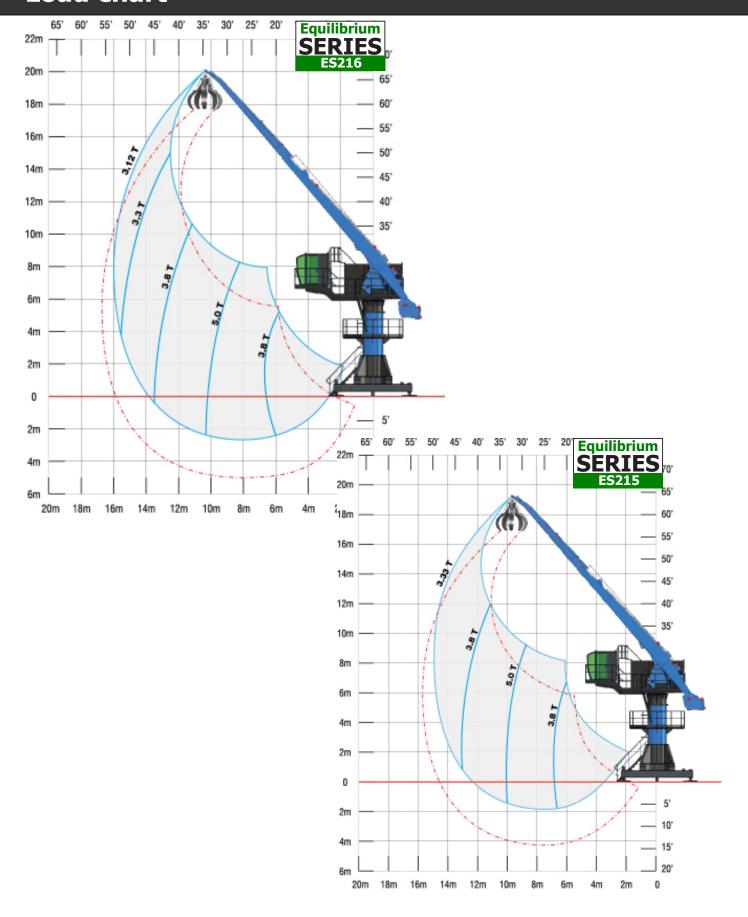
The different components



Load chart



Load chart



Technical data

GENERAL FEATURES	ES215	ES216	ES217	ES218
Power	50 t/m	50 t/m	50 t/m	50 t/m
Horizontal maximum reach	15 m	16 m	17 m	18 m
Lifting capacity at full reach	3.33 t	3.12 t	2.94 t	2.77 t
Length of the main arm	8.5 m	9 m	9.5 m	10 m
Length of the dipper arm	6.5 m	7 m	7.5 m	8 m
Weight (with free standing support)	40 t	42 t	44 t	46 t
ELECTRICAL SYSTEM Power of the main electrical motor	55 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	105 cc
Average working pressure	130 bars
Pump for rotation	75 cc
Capacity of the tank	800 litres
Filtration	1 filter of 10 microns
Cooling system	In line
Lubricating system	1 group with 3 separate circuits

ROTATION

Rotation motor	1 motor MS35
Ø of the ring gear	Ø 1250mm
Rotation speed	4 rpm

CYLINDERS

Type of cylinders Ø170mm x Ø120mm x 1450mm

TYPE OF SUPPORT

Fixed support anchored to the ground	Base of 2.3m x 2.3m - Ht: 6m
Fixed support, free standing	Chassis of 4.5m x 4.5m - Ht: 6m
Mobile support on rails	Trolley of 4.5m x 4.5m - Ht: 6m
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...



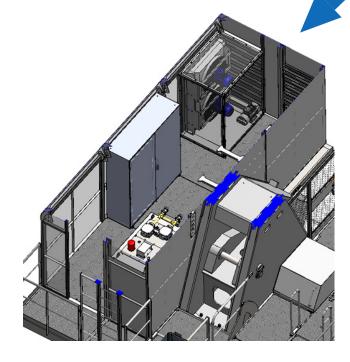
Technical data

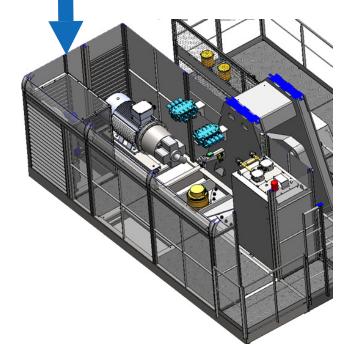
MACHINE ROOM

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.















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



