

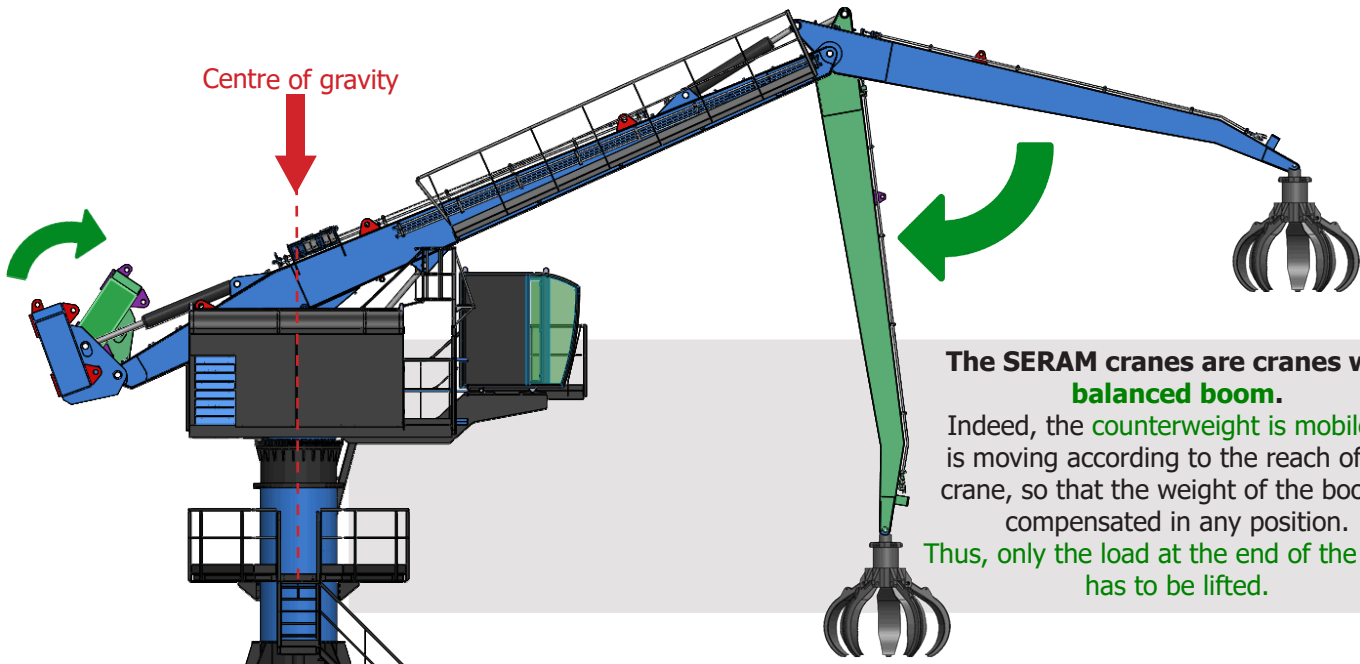


EQUILIBRIUM HANDLING CRANE

Equilibrium
SERIES 5
ES520, ES525

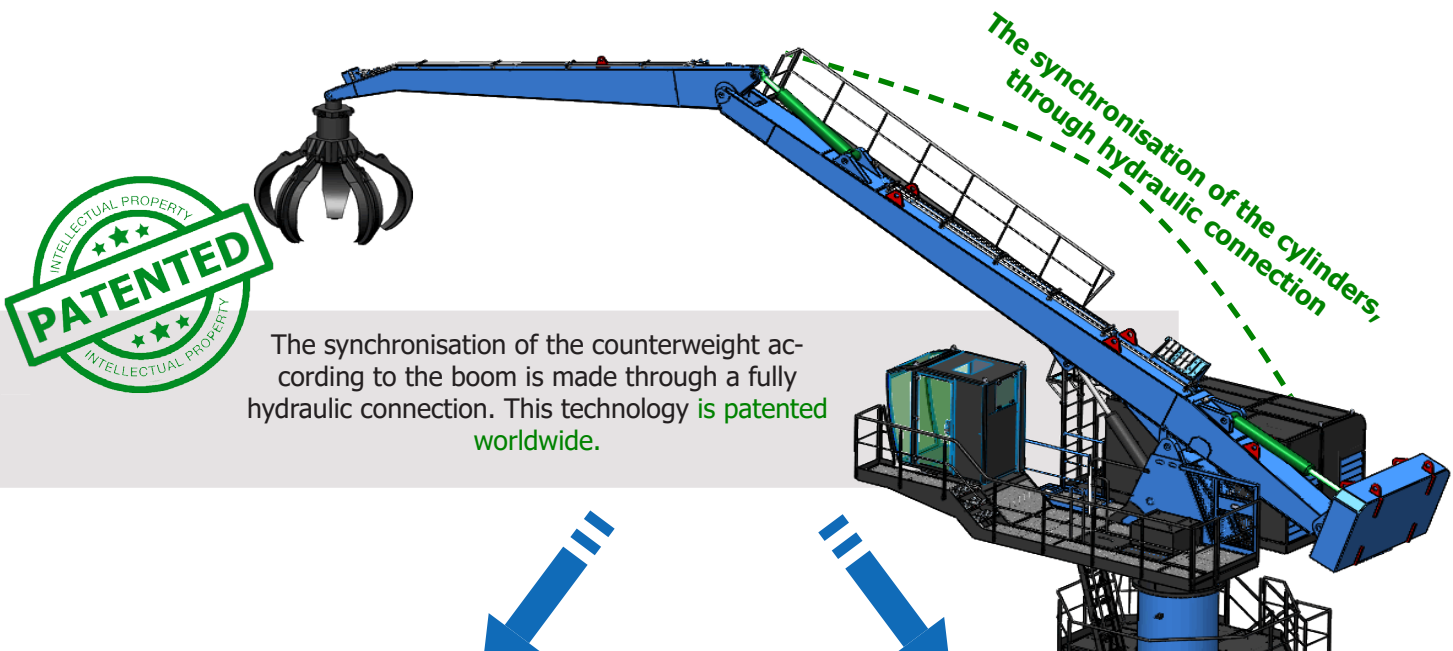
SERAM
L'EXPERIENCE

The Hydraulic Balance System



The SERAM cranes are cranes with **balanced boom**.

Indeed, the counterweight is mobile. It is moving according to the reach of the crane, so that the weight of the boom is compensated in any position. Thus, only the load at the end of the boom has to be lifted.



The synchronisation of the counterweight according to the boom is made through a fully hydraulic connection. This technology is patented worldwide.

Unequaled operating costs

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

Thermic excavator



Electrical non balanced excavator



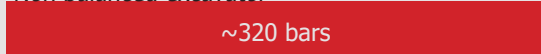
Electrical balanced crane SERAM



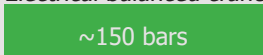
Low working pressure = Exceptional life-time

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

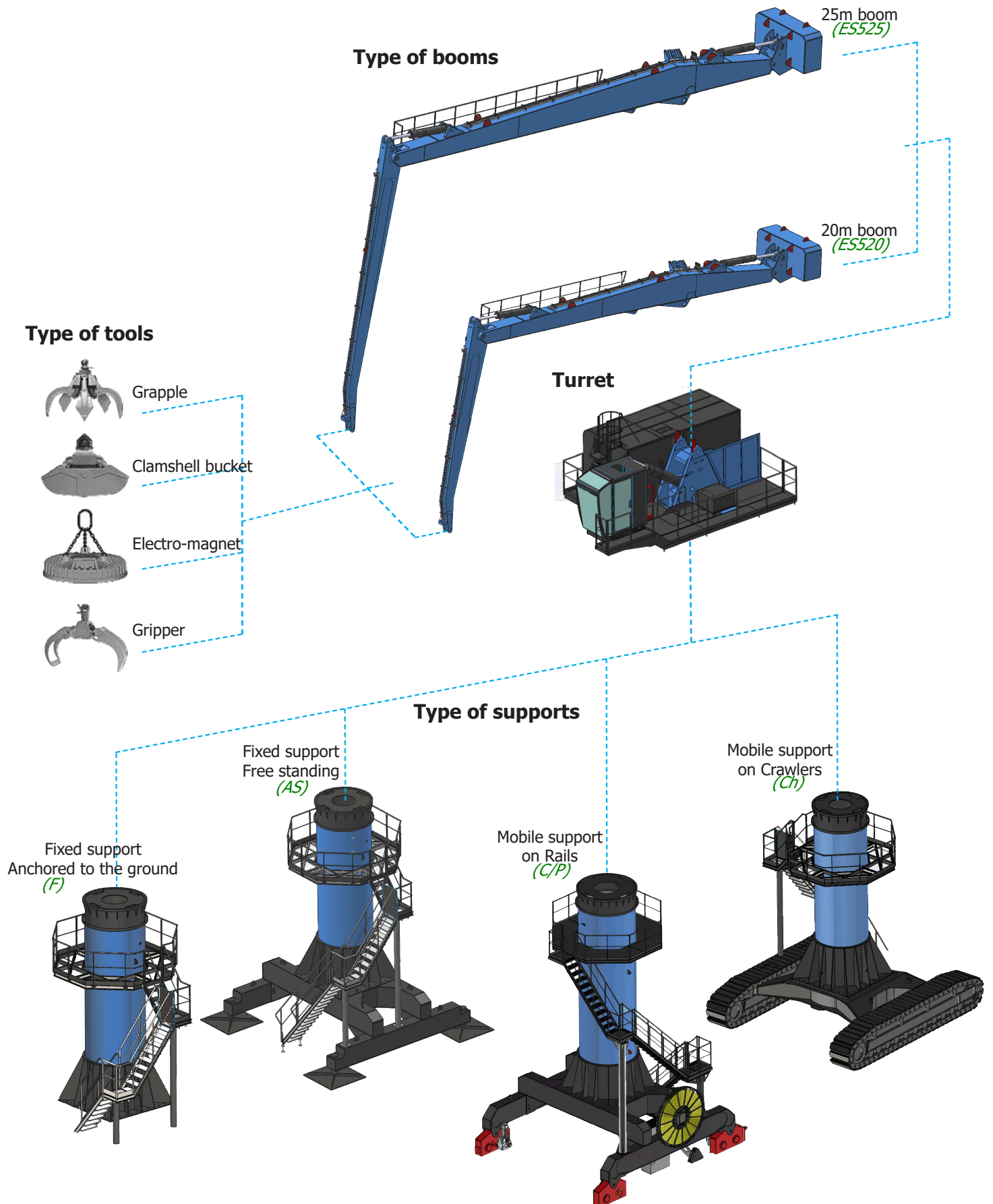
Non balanced excavator



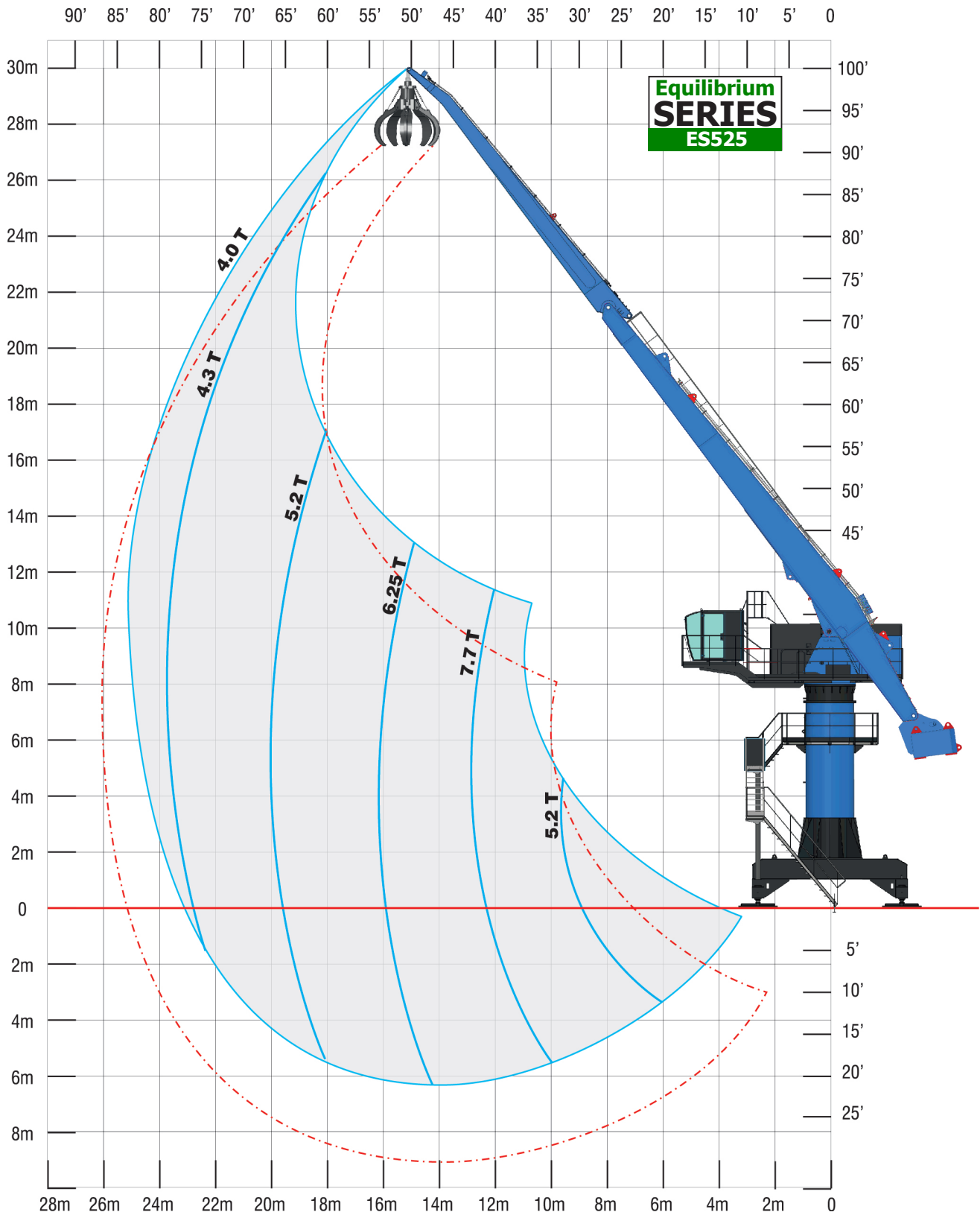
Electrical balanced crane SERAM



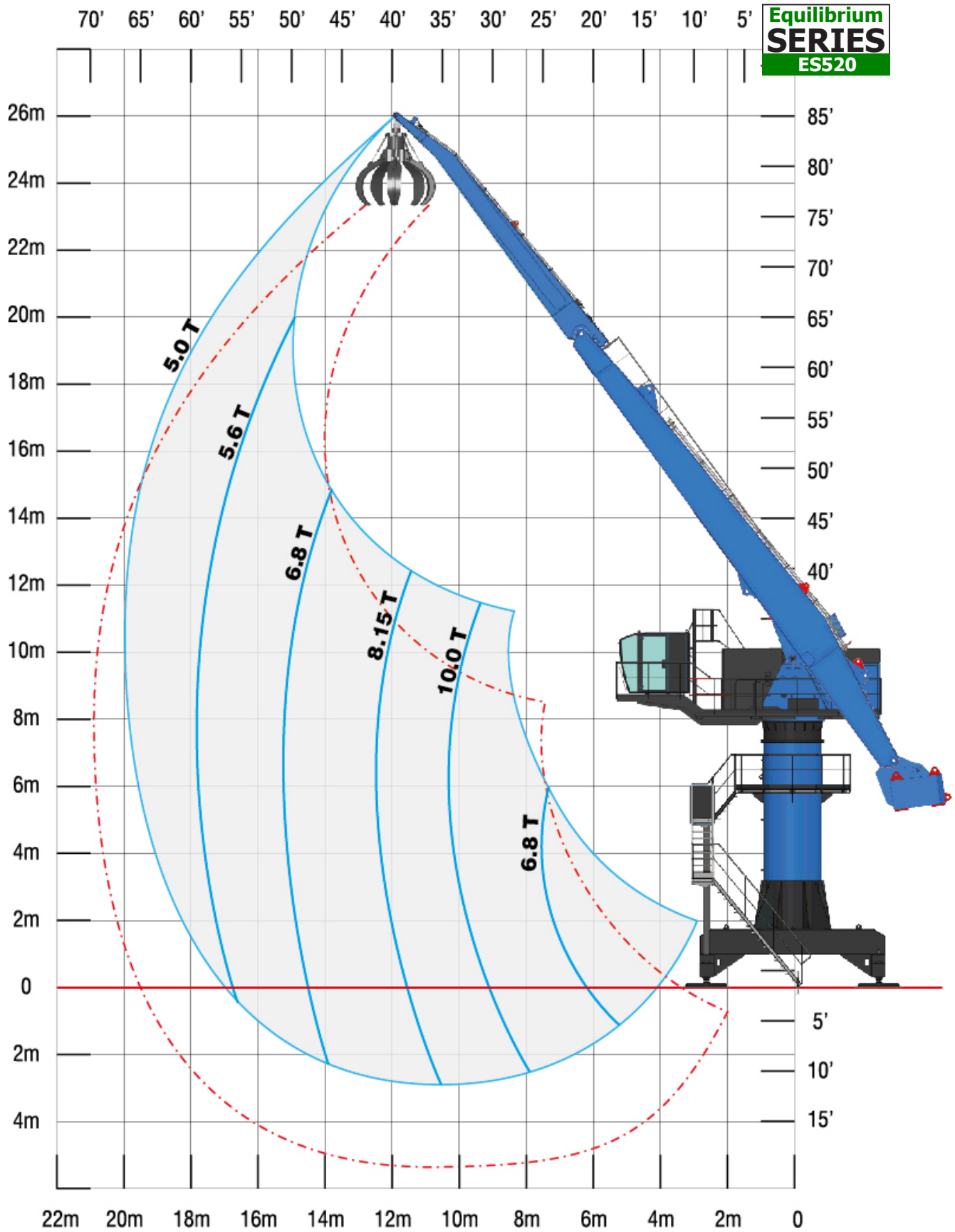
The different components



Load chart



Load chart



Technical data

	ES520	ES525
GENERAL FEATURES		
Power	100 t/m	100 t/m
Horizontal maximum reach	20 m	25 m
Lifting capacity at full reach	5 t	4 t
Length of the main arm	11.5 m	14 m
Length of the dipper arm	8.5 m	11 m
Weight (with free standing support)	93 t	101 t
ELECTRICAL SYSTEM		
Power of the main electrical motor	160 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	280 cc	
Average working pressure	200 bars	
Pump for rotation	105 cc	
Capacity of the tank	1600 litres	
Filtration	2 filters of 10 microns	
Cooling system	In line	
Lubricating system	2 groups with separated circuits	
ROTATION		
Rotation motor	2 motors MS50	
Ø of the ring gear	Ø 1790mm	
Rotating speed	4 rpm	
CYLINDERS		
Type of cylinders	250mm x 140mm 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...

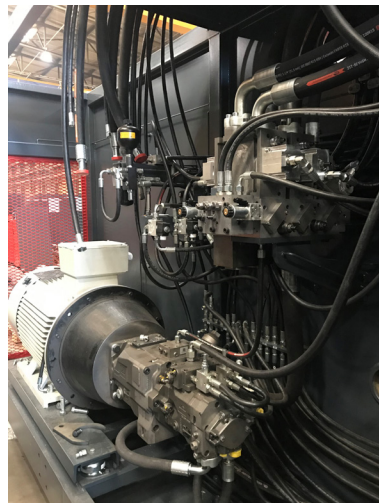
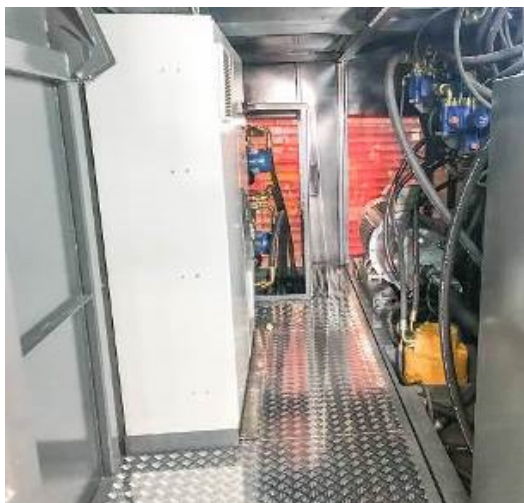
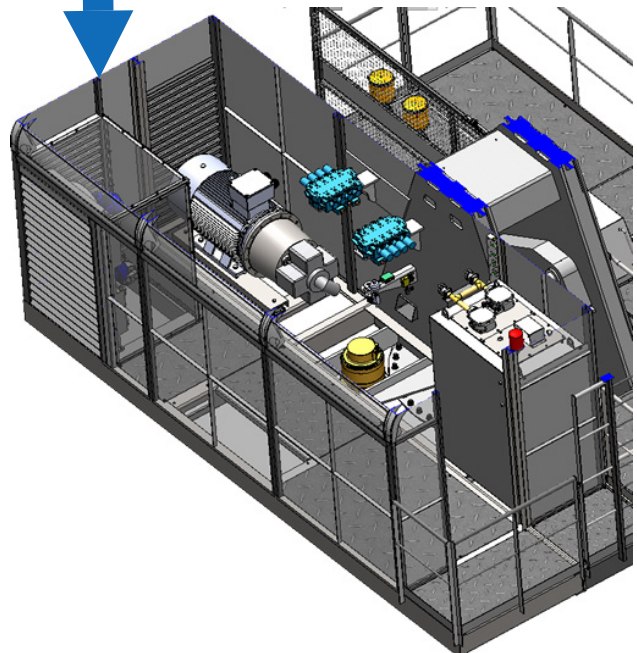
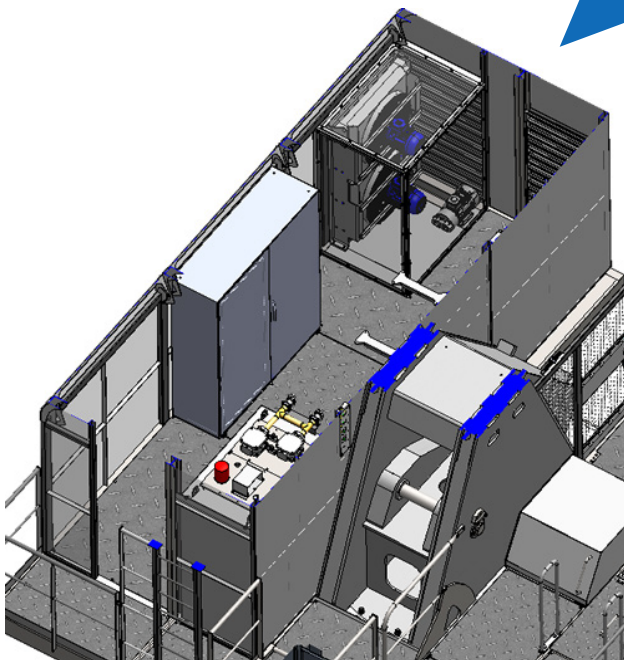


Technical data

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.



Equilibrium SERIES 5

ES520, ES525



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



SERAM

SERAM INDUSTRIES SAS

817 blvd Marius Berliet - 66000 PERPIGNAN (France)

Office: +33 4 68 61 02 28 - Mail: seramsa@seram.net

www.seram.net