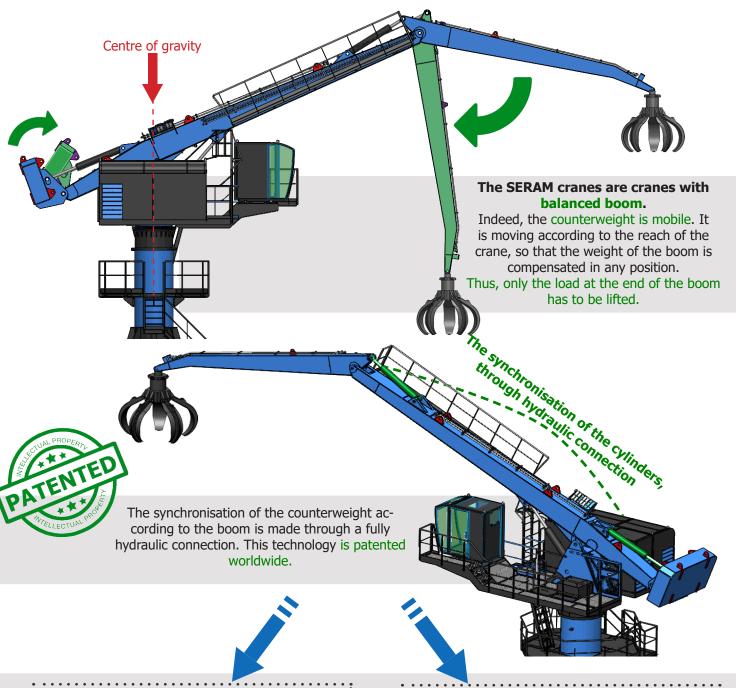


**EQUILIBRIUM HANDLING CRANE** 

# Equilibrium SERIES ES420, ES422, ES425



#### **Salance** System The Hydraulic



#### 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



#### 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

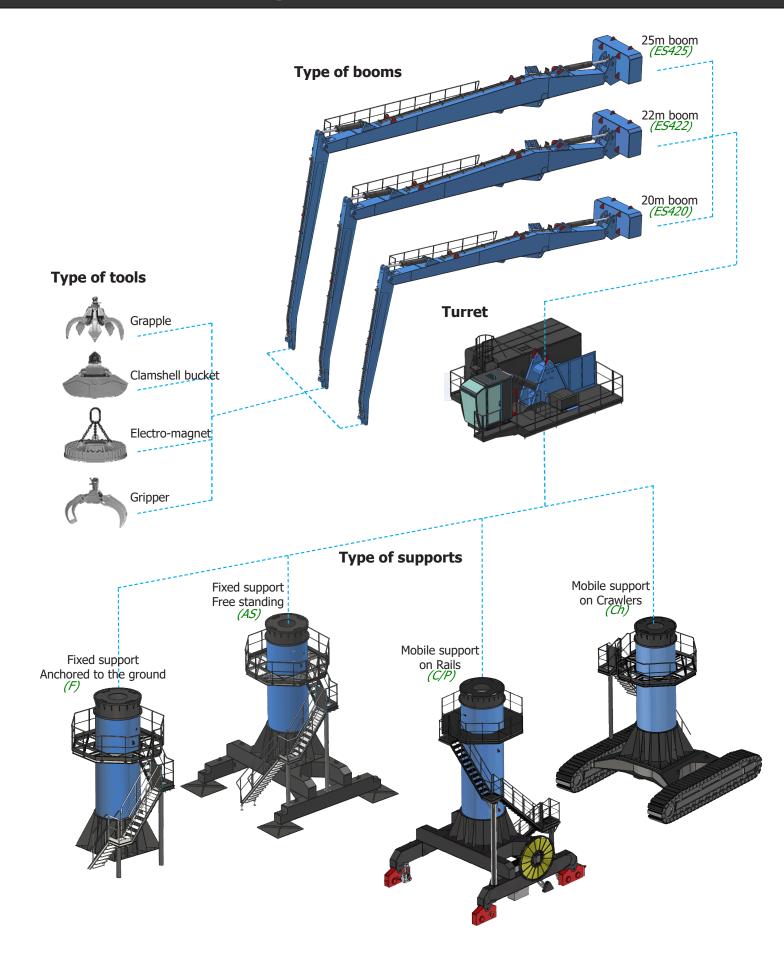
Non balanced excavator

~320 bars

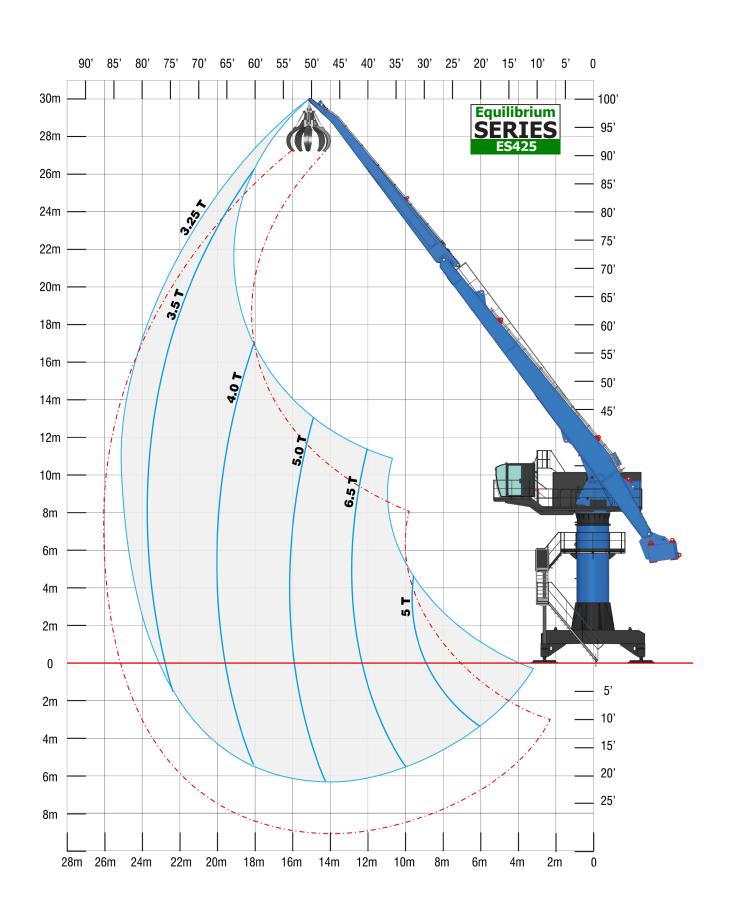
Electrical balanced crane SERAM

~150 bars

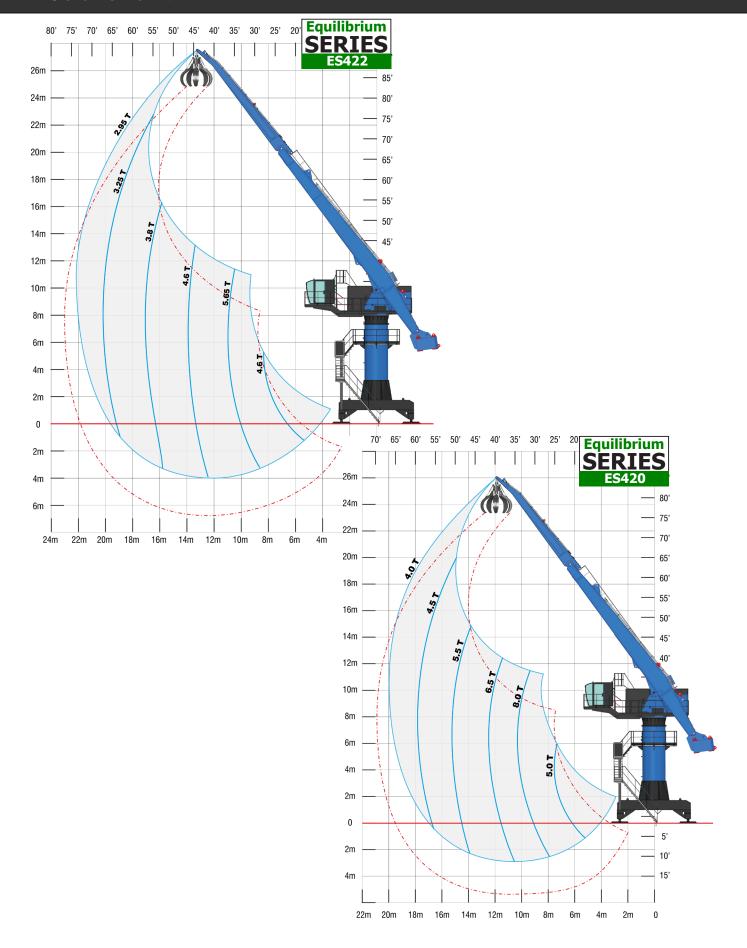
# The different components



## **Load chart**



## Load chart



**ES425** 

80 t/m

25 m

3.2 t 14 m

11 m

83 t

\_ \_

## **Technical data**

CENEDAL FEATURES	ES420	ES422
GENERAL FEATURES Power	80 t/m	80 t/m
Horizontal maximum reach	20 m	22 m
Lifting capacity at full reach	4 t	3.6 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)	78 t	80 t
weight (with free standing support)	101	υ τ
ELECTRICAL SYSTEM	L <del></del>	
Power of the main electrical motor	110 kW	
Type of start of the main motor	Star-delta or speed drive	
Voltage	400V / 480V / 600V - 50Hz/60Hz	
		•
HYDRAULIC SYSTEM	242	
Pumps for the movements of the boom	210 cc	
Average working pressure	180 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	220mm x 120mm x 1450mm	
TVDF OF CURPORT		
TYPE OF SUPPORT Fixed support anchored to the ground	Base of 4m x 4m - Ht:	Qm.
Fixed support alteriored to the ground	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	• • • • • • • • • • • • • • • • • • • •	
Proble 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...



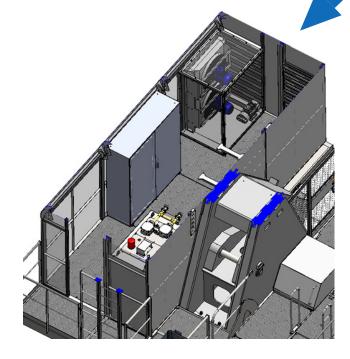
## **Technical data**

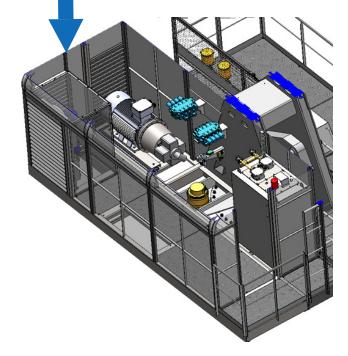
#### **MACHINE ROOM**

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.















CEDA

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

