

PORT EXCAVATOR

EP 180.2



- This machine looks like an excavator but it is not a real excavator, it is more of a “shoveler”.

PORT EXCAVATOR EP 180.2



SHOT ON REDMI 9
AI QUAD CAMERA

WHAT DOES IT DO?

It serves to assist the quay crane that unloads the entire ship using a 30/40 m³ grab bucket.

The port excavator is lowered into the hold and works in concert with the quay crane, moving the material that is not accessible to the crane (under the bulkheads of the ship). It facilitates the loading of the crane bucket making it always as full as possible.



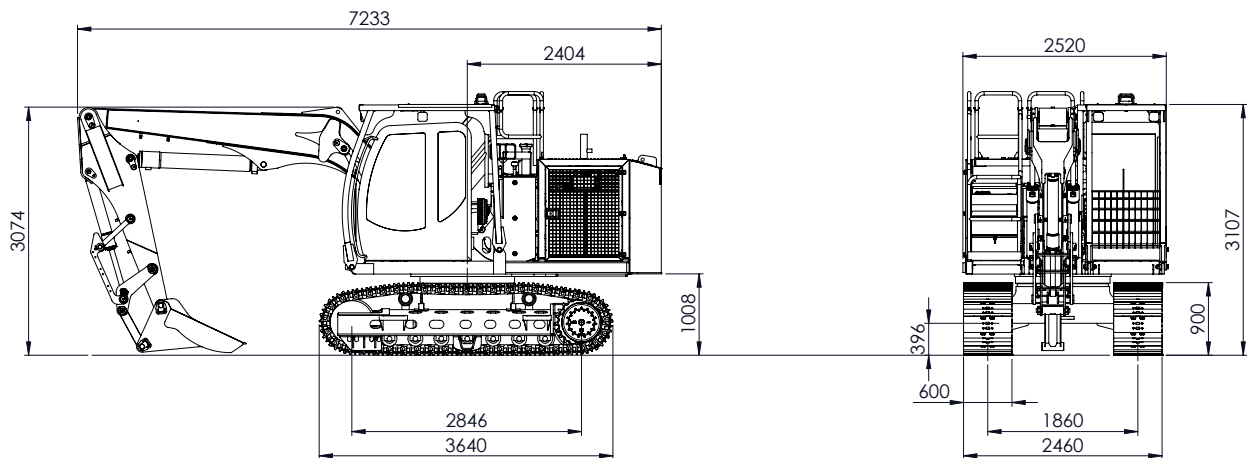
CORIS EXCAVATOR EP180.2 HAS SOME SPECIAL FEATURES. HERE ARE THE REASONS:

- It has a pressurized and air-conditioned cabin. Because an operator works in a dusty environment.
- It was designed to be easily washed and sanitized. Pipes and components were selected to facilitate this operation; the counterweight can be dismantled in 5 minutes to give a greater access to the rear for cleaning operation. Because it requires the complete sanitation every time the type of loaded product changes (for example, from minerals to cereals).



- It blocks the automatic regeneration for the engine. This feature is very important for safety purposes: automatic regeneration (not controlled by the user) in the case of processing with combustible materials (e.g. cereals) is at high risk of fire. Because during regeneration the muffler reaches 640°C.

TECHNICAL DESCRIPTION



PARTICULAR WORKING ENVIRONMENT REQUIRES SPECIAL FEATURES:

- ◆ Piston and pipes protected by being under the boom and not above, this prevents accidental impacts against the ship's bulkheads
- ◆ The hoods (upper and lower sides) are not fully closed but grilled so the dust and materials do not end up inside the machine.
- ◆ Increased force and rotation speed in comparison to a "normal" excavator to increase performance in helping the quay crane in unloading operations
- ◆ Simple and reliable hydraulics with high efficiency to minimize oil overheating and fuel consumption; constant power load sensing with post-compensated distributor to always have maximum control even during the three simultaneous maneuvers (bucket closing, arm closing and rotation).
- ◆ Minimum electronics helps to make the machine less vulnerable to the problems resulting from continuous sanitization washes (for normal excavators these are rare)
- ◆ Reversible fan for cleaning the radiator using the FLEXXAIRE system which guarantees excellent efficiency and helps to reduce fuel consumption.
- ◆ Robust FOPS cabin protection designed for easy replacement as it could collide with the dock crane bucket.
- ◆ Maximum fuel consumption 23 l/hour, average consumption 18 l/hour.

TECHNICAL DATA

| | |
|---------------------|--------------------|
| Weight | 18,600 kg |
| FPT | F36 Stage V engine |
| Power | 105Kw 142Hp |
| Displacement | 3,600cc |
| Number of cylinders | 4 |
| Urea tank | 19 liter |
| Diesel tank | 210 liter |
| Engine | FPT F36 Stage V |



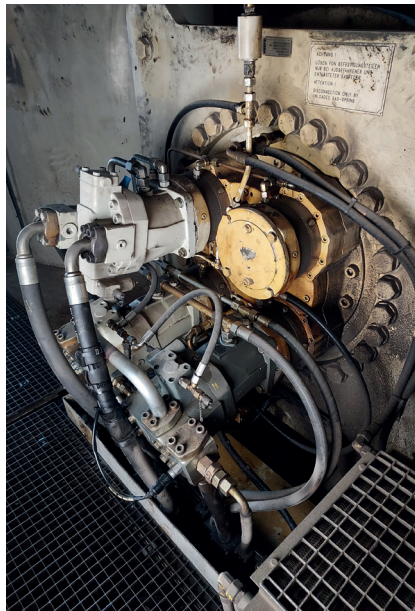
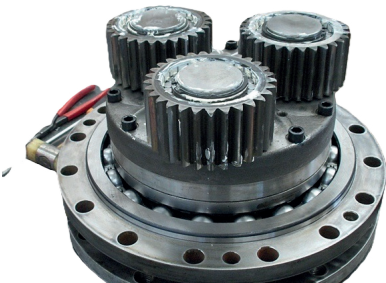
TECHNICAL DATA

HYDRAULICS

| | |
|--|-----------------------|
| Load Sensing variable flow main hydraulic pump with constant power | 320 litres/min@360Bar |
| Hydraulic gear pump | 22 litres/min@120Bar |
| Hydraulic tank | 360 liter |
| Post-compensated servo-assisted distributor | |
| Double displacement hydraulic piston translation motors | |
| Hydraulic rotation motor with axial pistons | |



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