

HYDRAULIC GANTRY CRANES MQ-PH-30



DESCRIPTION.

⇒ A framework called armature, which forms the gantry body in the true sense of the word, slides between two parallel supporting pillars.

This armature includes two crane booms that suitably attached serve as support to the load carrier assembly. Two lifting partial movements are achieved by this: One resulting from the vertical movement of the armature through the pillars, the other being the vertical displacement of the suspended load at the end of the crane boom respecting its spin axis. (45° at each side)

The pillars rest over two horizontal heads which include wheels at their ends to allow the unit to travel along its way through the rolling track.

In its upward and downward movement through the pillars, the armature is guided into them by means of front and side rollers which prevent displacement in any direction. Powering up is achieved by means of hydraulic cylinders housed in each pillar.

The booms are articulated on pins mounted on both sides of the armature. Powering up is carried out by two hydraulic cylinders which are attached also in an articulated way to the armature of the body. These two cylinders are parallel connected between them in a way that they always move together. Nevertheless, to enable small misalignments, suitable knee-joints are provided at rod ends.

The two armature side bodies are attached between them by strong cross members which make what is actually the upperstructure or gantry montant. The assembly conveniently bracketed, forms a body of great strength and practically undeformable.

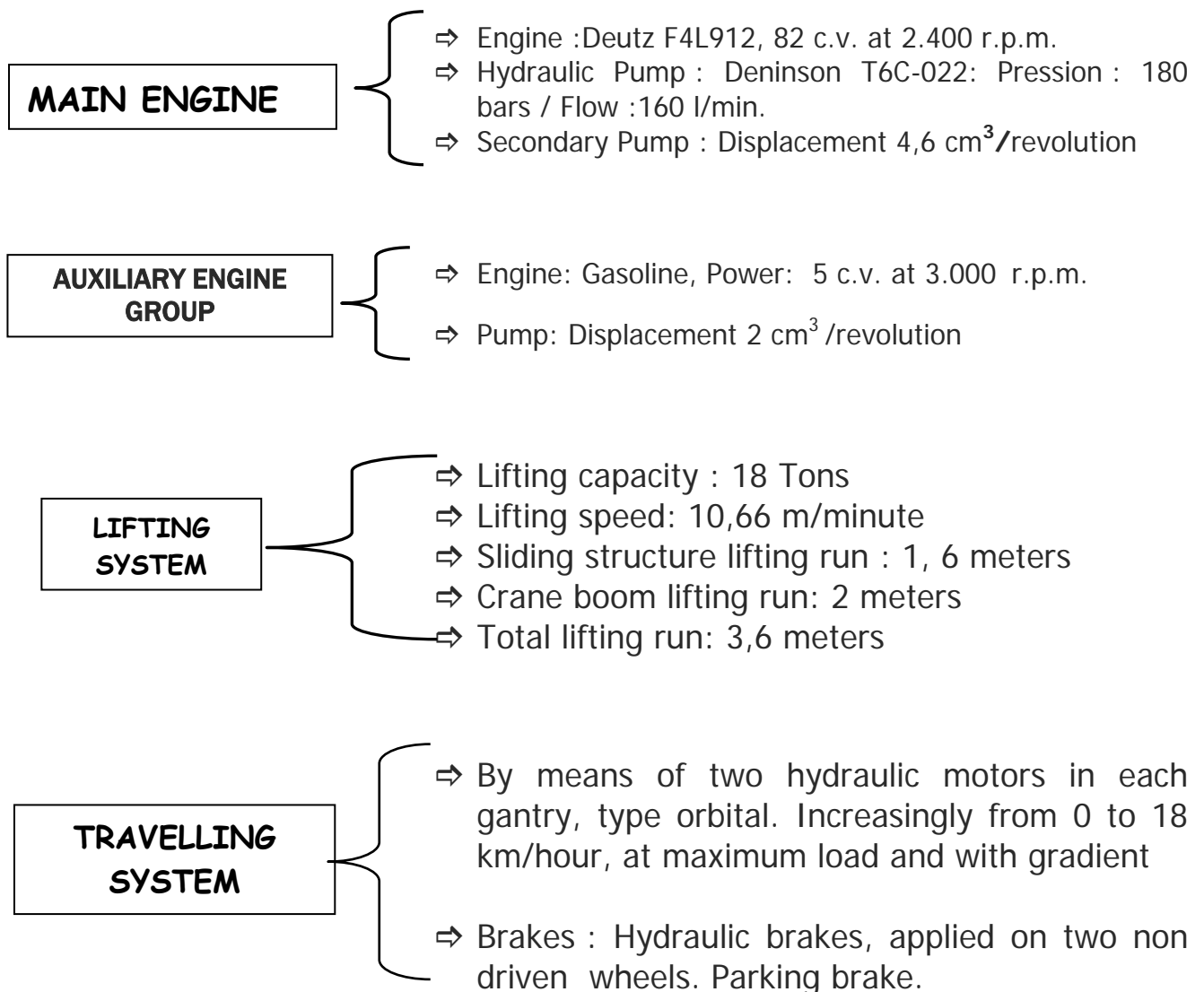
All them are located in such a way that the resultant of its total weight coincides with the gravity axis of the gantry.

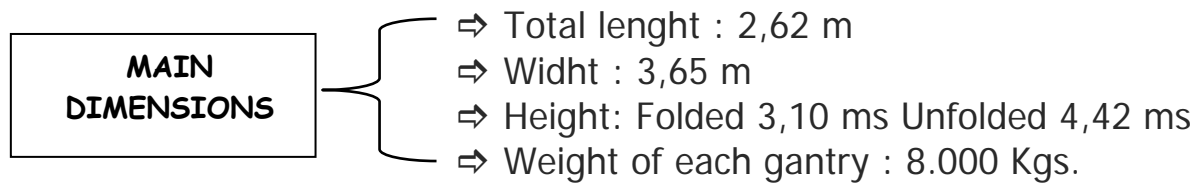
By the profile that joins together both boom cranes, transversally slides the traveller, driven by a hydraulic cylinder. This allows the load to move crosswise to the track for its correct placing.

OPERATOR'S SEAT.

It has been designed for the maximum comfort of the operator and it is located in such a manner that enables to work safely. One fix type seat is mounted in the sliding part of the structure. Consequently the operator goes with it in its vertical travelling, so he always has great visibility of the working area.

TECHNICAL CHARACTERISTICS





MAIN ADVANTAGES :

- ⇒ High degree of safety and against accidents as the lifting system does not include any cable or chain, but only hydraulic cylinders.
- ⇒ Simultaneous or independent lifting operation of two supports which allows :
 - .- Keeping the gantry in horizontal position, even in the case of great gradient or slope
 - .- Possibility of working in railway stations as one of the rolling track rails can be placed above the platform
 - .- The gantry unit can be slightly moved either side in order to avoid any interference caused by protruding parts in the working train wagons
 - .- Possibility of working in tunnels as the overall height of the structure can be changed, keeping however without variation the complete boom lifting run
 - .- It is not necessary to use special railway wagons for its transportation. The gantries can be self loaded on normal flat railway wagons as those used in the working track area. Once placed on top of the wagon, they will comply with all regulations on loading gauges.
 - .- The unit includes an emergency auxiliary hydraulic station to prevent the main circuit in case of any failure
- ☞ The Maquivias Gantry Cranes are manufactured in a safe and competent manner in line with industry standards and all functions comply with the CE requirements.