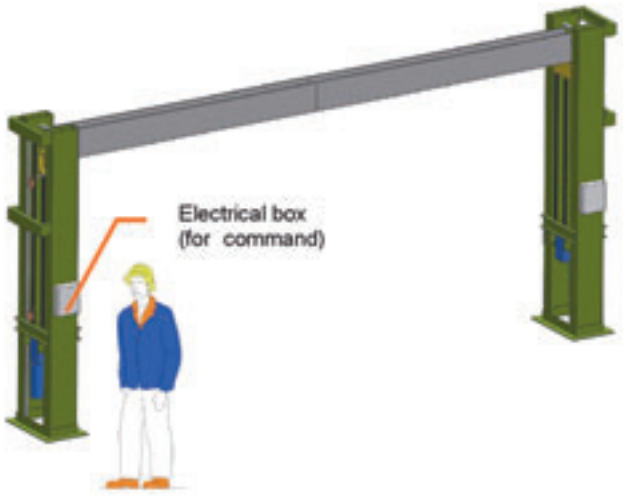
Loading and unloading stations

Handling and movement equipment

Aluengineering

Loading and unloading stations are used to facilitate the hooking operation. Through a push-button panel the operator can adjust the height of the anodic bar to the most convenient working position.

A loading/unloading station is composed of 2 independent columns. Each of them has a motor-driven support which allows to lift/lower the flight bar to ease the loading/unloading operation for the workers, setting the bar at a reasonable height



The flight bar is sustained by a V-shaped support which is moved up and down by two parallel chains and a worm gear transmission driven by a self-braking electric motor.

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Hoisting movements of the flight bar are achieved using two independent columns, one on each side of each loading station: the flight bar is placed on the V-shaped supports, then the workers can lift/lower it using a joystick controller.
Each support is connected to two parallel chains moved by the shaft of the worm gearbox inside the column. A mechanical safety system also prevents the lifting trail to escape from the beams and fall, even in case of a chain fault.

The electrical boxes are located on both sides of the steel structure of the lifter. The terminals for the complete wiring system (power supply, local command, position switches signal) are located inside the lower box, while the higher box is for the control system (up and down with a joystick driven switch) and for the operating signal (green light).
Two position switches work as emergency, while the others are for working purposes.