

STEMM grabs developed

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STEMM has developed a new range of grabs. 'Smart Grabs' automatically adapt themselves to the product specific characteristics during each handling process with no direct manual intervention from the worker required.

Should the product be heavy or compacted, of big granulation or sometimes mixed with light products or plastic packages, the grab works at a lower or higher speed, regulating the penetration force required and with the adequate dragging of the material; it changes the speed and regulates the pressure according to the material characteristics in each moment.

It is basically a very special hydraulic circuit, that coordinated with an automaton allows for the regulation of pressures, time-delays, and combination of various parameters.

The working mode of the machine can previously be programmed according to the products and materials that are going to be handled. This programming is done on remote, either from the crane cabin or via a remote control from a tablet, PC or smartphone.

The grab's operating regime can be known and controlled on remote, obtaining data of the number of fast and slow manoeuvres that are carried out during the homogenisation and preparation phase, and therefore gaining a considerable amount of time.

The company's Smart Grabs feature external signalisation with lamps running on fast or slow flashes frequency and colours depending on the condition or working regime at each moment.

Port cranes are equipped with various grabs for handling various types of bulk of different densities and granulometries. As not always the most suitable equipment for each bulk is available, equipment with grabs that cover the maximum and higher range of material densities.

This entails higher closing times, with penetration forces that are not always so necessary; In short, the result is very slow and long boat unloads.

When the bulk carried in the hold is lighter, the manoeuvre times are automatically adapted with the appropriate penetration force and speed, resulting in great time savings in the unloading of the boats and therefore a major economic impact for port dockers.

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