
QUILTON

SCREW ELEVATORS



SCREW CONVEYORS AND GRIT CLASSIFIERS

The QUILTON screw elevator is used to **raise different kinds of solids at angles of more than 30° above the level.** This is thanks to its orthogonal or cylindrical design (depending on the application). It is fitted with a robust shaftless spiral made of thick stainless steel and a low-rev gear motor.

This shaftless spiral arrangement provides the screw elevator with greater conveyor capacity, less sensitivity to fibrous or clogging materials, and the ability to transport products in a wide range of sizes. There is nothing to hinder the products' progress, and the auger can be filled without any risk of blockage.

FEATURES AND STRUCTURE

The screw elevator caters for highly compact installations in reduced spaces.

A screw elevator that operates by “pushing” can be coupled onto a second screw elevator and fed directly, without the need for an intermediate hopper.

The material is moved by a robust steel spiral. It is a helicoid without a central shaft or core, with greater conveyor capacity, less sensitivity to fibrous or clogging materials, and the ability to transport products in a wide range of sizes.

As the spiral has no central shaft, it is always in contact with the trough, which is protected by a replaceable sleeve. There are different kinds of protective sleeves, which are made of ultrahigh molecular weight polyethylene (PE-1000 UHMW), Adiprene... depending on the material to be moved. In order to reduce wear, the auger should be filled with as much material as possible when in operation.

ADVANTAGES OF THE SCREW ELEVATORS

- ✓ Greater transport capacity.
- ✓ Greater sensitivity to fibrous materials or ones that lead to plugging.
- ✓ Possibility of moving products in a very wide range of sizes.
- ✓ No danger of blocking, as there is nothing to hinder a product's progress.



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