channel feeder 100

Automatic feed unit for screws

TURNING OUR SKILLS TO YOUR ADVANTAGE

Technical cleanliness in assembly processes becomes increasingly more important. This also puts a focus on the requirements for automatic feeding of screws. To prevent contamination, unintended electrical contacts or short-circuits a new screw feeding unit has been developed.

To transport the screws in the channel feeder 100 neither vibration nor sorting air is required in the whole system. Screws are fed via a belt conveyor from the hopper to a channel where they are correctly positioned.

A part of the channel serves as a buffer. Depending on the filling level a signal regulates the supply of screws to the conveyor belt so that there is no system-based over-supply of screws to the belt.

No screw is processed multiple times in the sorting loop. Even micro-encapsulated, coated or lubricated screws can be processed.

THE ADVANTAGES AT ONE GLANCE:

➔ *100% of all screws can be fed*
➔ *each screw is sorted only once*
➔ *no forming of particles, no abrasion*
➔ *no vibration*
➔ *no sorting air is required*
➔ *saving energy (up to 20%)*
➔ *quiet (< 60 dbA)*
➔ *fast processing: up to 400 screws/min.*
➔ *automatic removal of foreign particles or incorrectly sized screws*
➔ *complete emptying of the screw hopper for maintenance or quick and easy tool change*

Technical data:

channel feeder 100	
system	with feed unit and controller; with 10 l hopper, automatic removal of faulty parts and singling mechanism
connection to	• 1 x 5 bar compressed air (central connection) • 1 x 230 V • feed tube fitted to screw size
dimensions	500 x 1020 x 1200 mm
screw dimensions	• total length 10 – 60 mm • head diameter 5 – 20 mm
performance	up to 400 screws/min.
capacity	10 l (max. 30 kg)
noise level	< 60 dbA
total weight	approx. 110 kg

Suitable for many different types of screws

Illustration as example, many other different screw types possible

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