Drum Series

ROLLER FILLING SYSTEM

ROLLER FILLING SYSTEM

The Roller Filling System enables fully automatic, double-sided filling of gear wheel components of different heights with cylinder rollers

RANGE OF PARTS:

Cylindrical rolls, gearwheel, distance rings

With the integration of a parts bin and feeding rails, cylinder rollers are presented on multiple tracks.
After the spacer ring and auxiliary spindle are inserted, the buffer is filled in two steps. In double-sided filling, the first roller bearing is slid onto the auxiliary spindle with the spacer ring and then the second roller bearing is slid in up to the spacer ring. Because of double-sided filling, gear wheels do not have to be repeatedly switched back and forth.
Exchanging a gear wheel is simplifed by virtue of a magnetic holding device, which allows easy removal and replacement of the respective retaining plates.

Advantages:

Cost effectiveness:
Owing to its full automation and ability to completely fill a gear wheel within eight seconds, the Roller Filling System represents an extremely economical solution.

Quality:
Through gentle handling of the rollers and gentle filling of the gear wheels, there is no twisting, and a high-quality yield is guaranteed

Flexibility / Ergonomic design:
Because of the sophisticated technical principle behind the Roller Filling System, it is capable of double-sided filling, which eliminates the need to switch gear wheels back and forth, and it is switchable during operation to accommodate
Various gear wheel sizes.

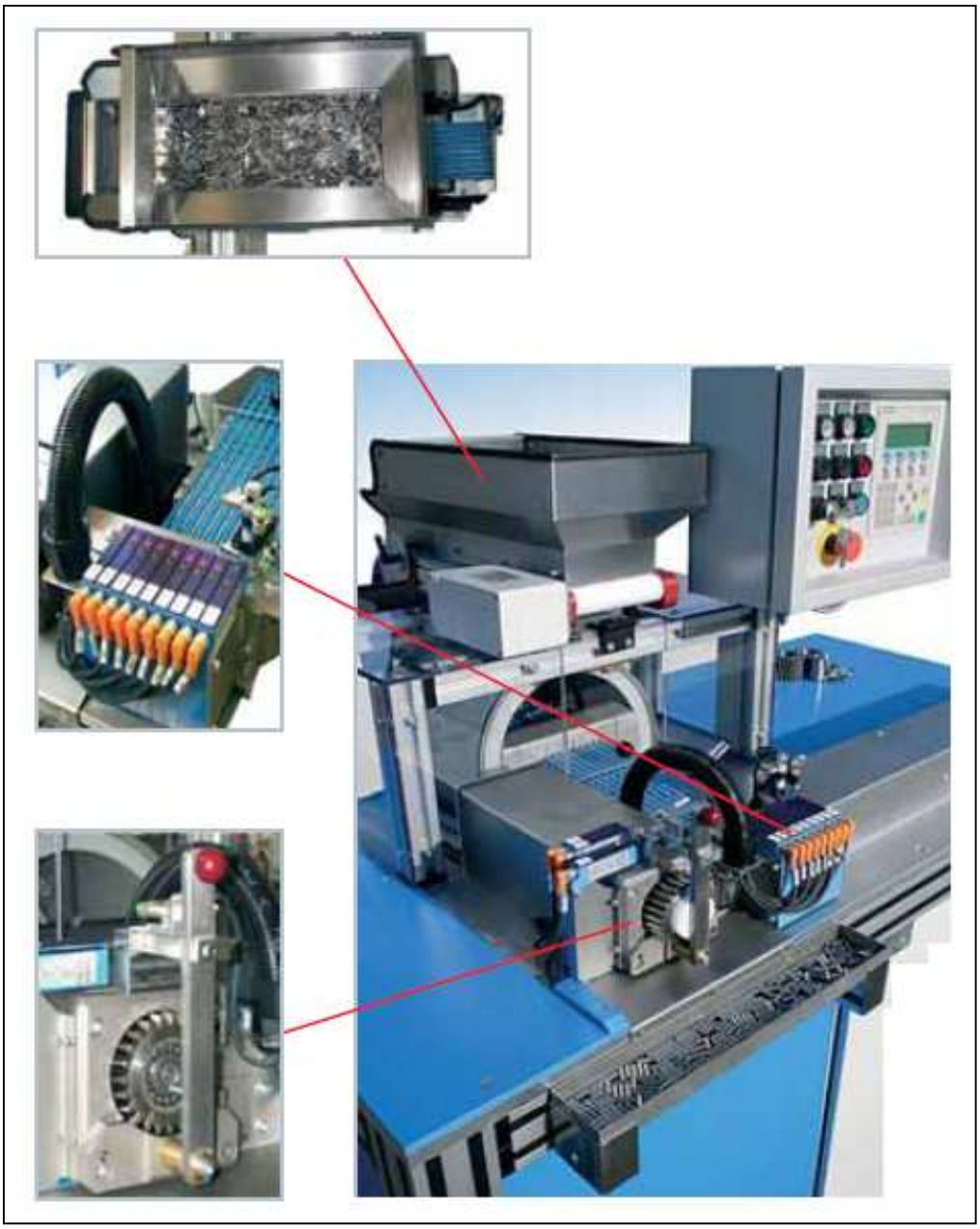
Roller Filling System

Method of functioning:

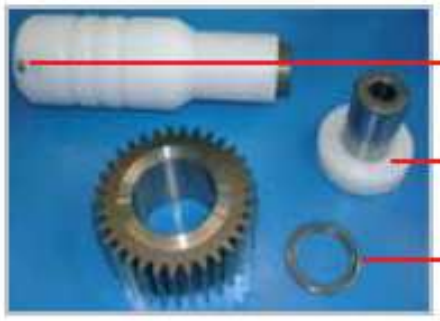
Parts bin and feeding:
Via a parts bin, the conveyor drum is filled with cylinder rollers, which are subsequently presented over multitrack conveyor rails.

Separation:
Only when rollers are present in all tracks can the separation signal be activated. When this happens, rollers are transported to the filling station and inserted by a pneumatic cylinder.

Filling station:
In the filling device, the spacer ring is pushed onto the axle with the help of the auxiliary spindle. The presence of the spacer ring is checked for by a photoelectric barrier. After the gear wheel is set up with the auxiliary rollers and centred in the retaining plate with a centring bolt, fully automatic filling with cylinder rollers begins. Filling the gear wheel by this two-step process makes it unnecessary to switch it back and forth.



Ancillary tools:



Auxiliary spindle for inserting spacer rings

Auxiliary cap with end cover

Spacer ring

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