

Flexible Factory Automation
DAISHIN

HIGH SPEED FILLING MACHINE

More than 2 times speedy filler than
conventional one!!!



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<http://www.daishin-sa.co.jp/>

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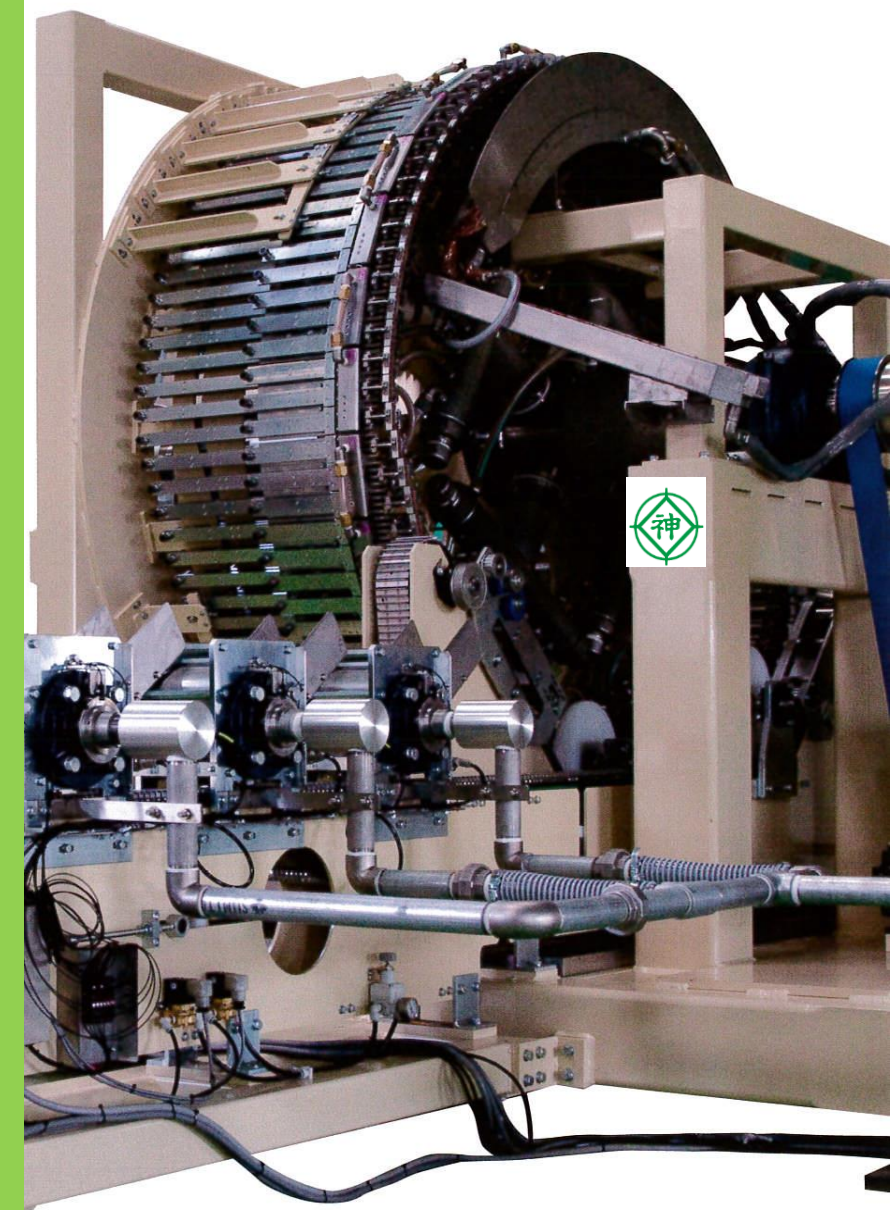
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High-speed filling machine



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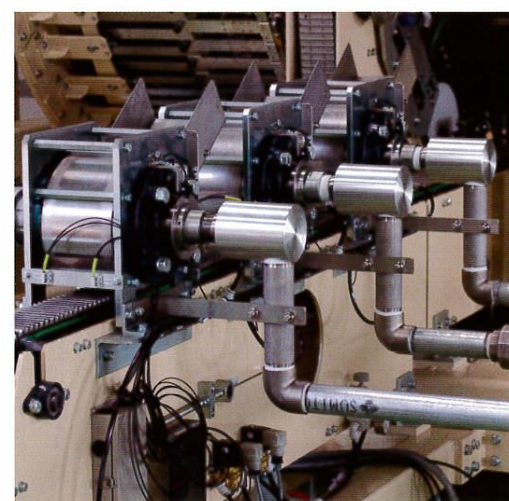
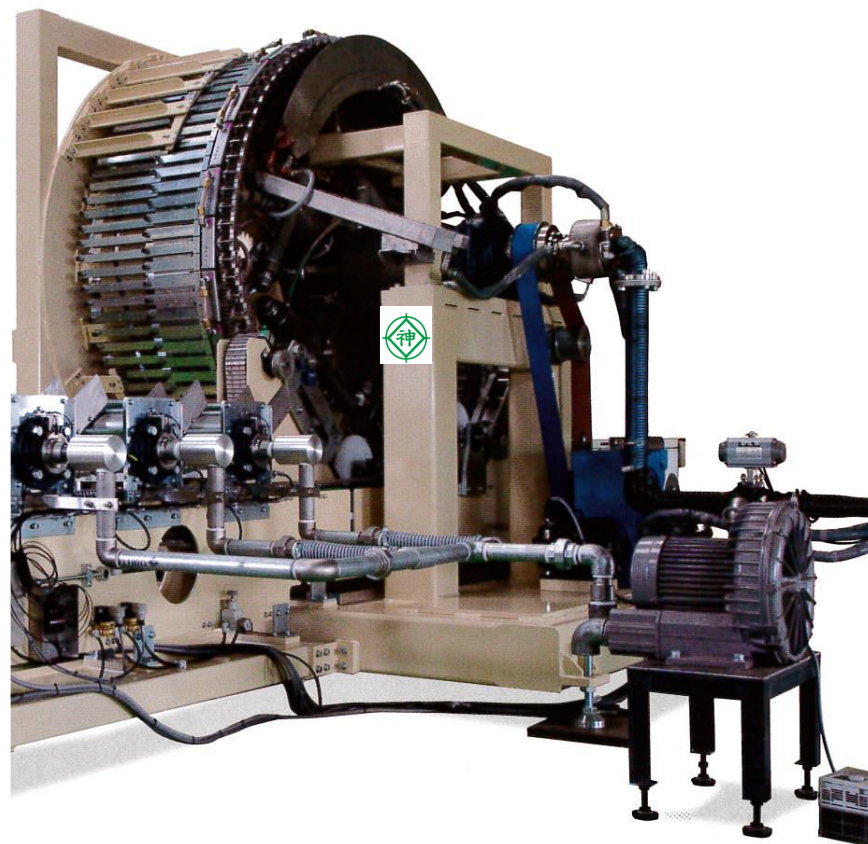
HIGH SPEED FILLING MACHINE

More than 2 times speedy filler than conventional one!!!

High-speed filling machine

Features and Characteristics

There is a limitation in production capacity in parallel tact type food processing machinery in current world, but this new equipment has overcome thev limitation through o cmkpi " hgzkdng" production capacity and saving space required for installation in the factory site in simple way than the complex manufacturing equipment. This is a high speed filling machine positioning with vertical rotary work stage with servo motor and cam driving force by smooth power transmission system. That's why it can be designed in simple way to save spaces in work site.



This machine fills vj g"egvgt"qh"c"urpfgt"j qmry "r tqf wv'y kj "c"f lco gvt"qh"7"vq"8"o o "cpf "c"j qrg"flco gvt"qh"5"vq"6"o o "y kj "c"xkequw"rks wkf 0Cfter filling, it sends the finished products into vj g"next step of manufacturing process d{"eqpvwkp" "hmkpi "vj g"pgzv'dcvej side by side0 Kk thku way, this machine works on. For increasing the production capacity, the conventional device needs big space to set up big size equipment. This problem is overcome by our device. Our high-speed filling machine does not use the current tact production method, but uses a vertical rotary system to streamline the equipment and achieve continuous production, significantly lowering filling costs.

The machine grasps long, thin hollow products that are fed in bulk from the conveyor one by one at a high speed of over 20 pieces per second, removes defective products and passes through a replenishment device, and then centers the products in the chuck without damaging them. The integrated slide part is glued to the filling nozzle and filled.

Work Process

01 Supply Conveyor



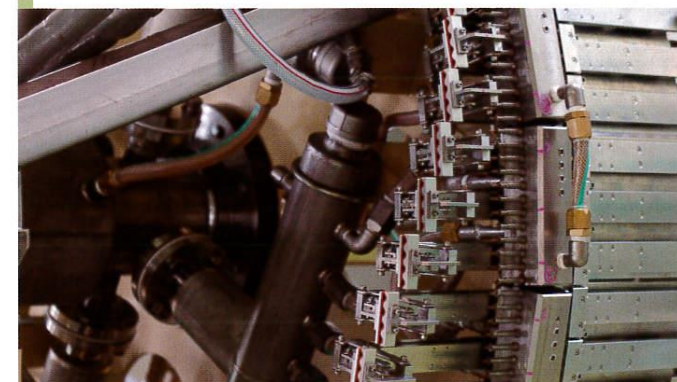
Line up and feed one by one to ensure accurate filling.

02 Replenishment Device



Replenishes in 0.5 seconds if the product is not supplied on supply comparer.

03 Handling



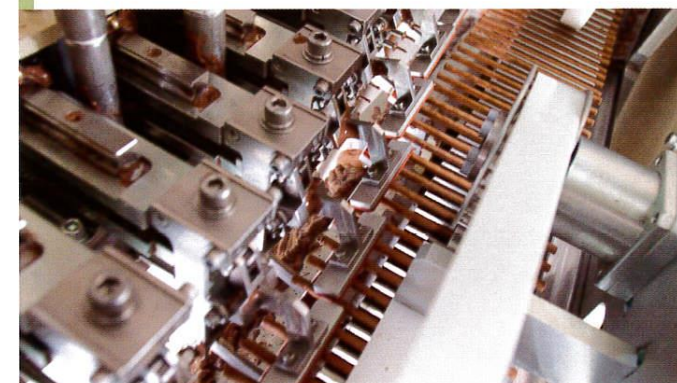
Accurately grasps the product and carries it to the nozzle side

04 Filling



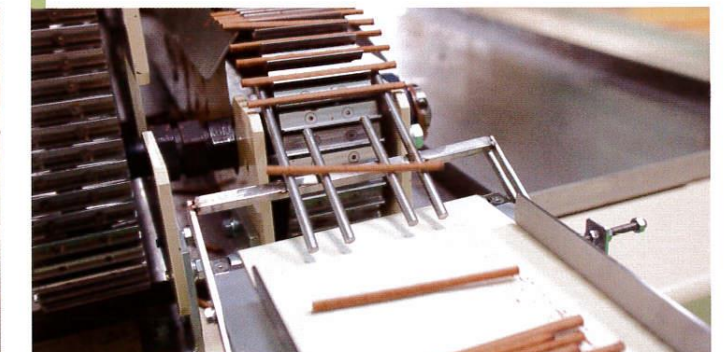
Filling is completed in about 3 seconds from one side.

05 Handling (Return)



After filling, product are transfered to discharge conveyor

06 Discharge



Products lined up from the delivery conveyor are sent to the payout conveyor

Product Benefits

- Can be filled more than twice as fast as the conventional device.
- Only one arrangement staff is required, eliminating the need of alteration staff on the supply conveyor.
- Requires less space for installation than before.
- Runs through one motion drive and saves electricity consumption

Specification

- AC200V 7.0kw
- AC Servo Motor-4 units
- Cam Drive System
- 20 or more pieces per second