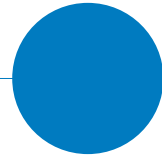


DOGATHERM

Cup filling and sealing machine



Hygiene Standards

standard, hygienic, ultra-clean

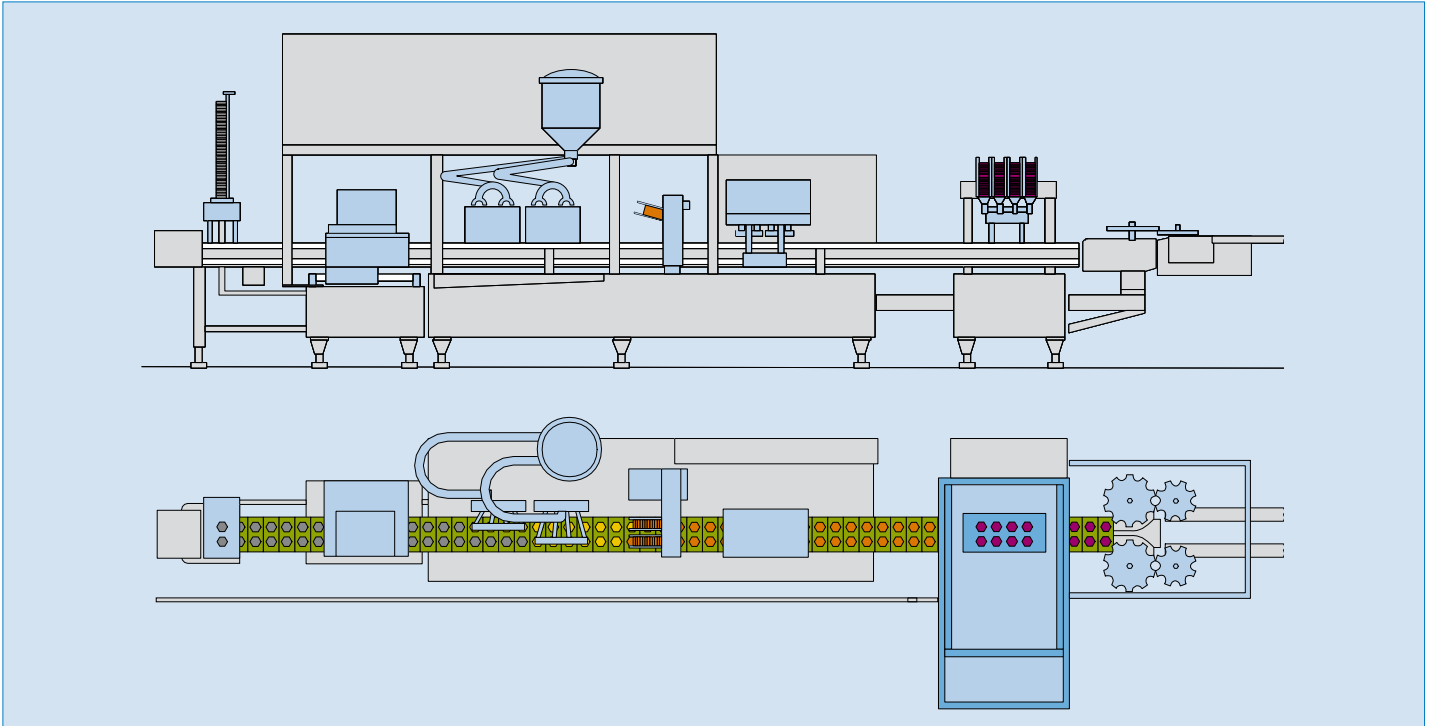
Machine Types

DT 41, DT 81

COMPLETE LINE

We offer the project design of a complete packaging line on the DOGATHERM basis comprising:

- cup buffer and feeding systems
- separate tray packer
- tray erector
- palletizer



General plan of a DOGATHERM machine with snap-on lid applier (optional)

Machine Concept

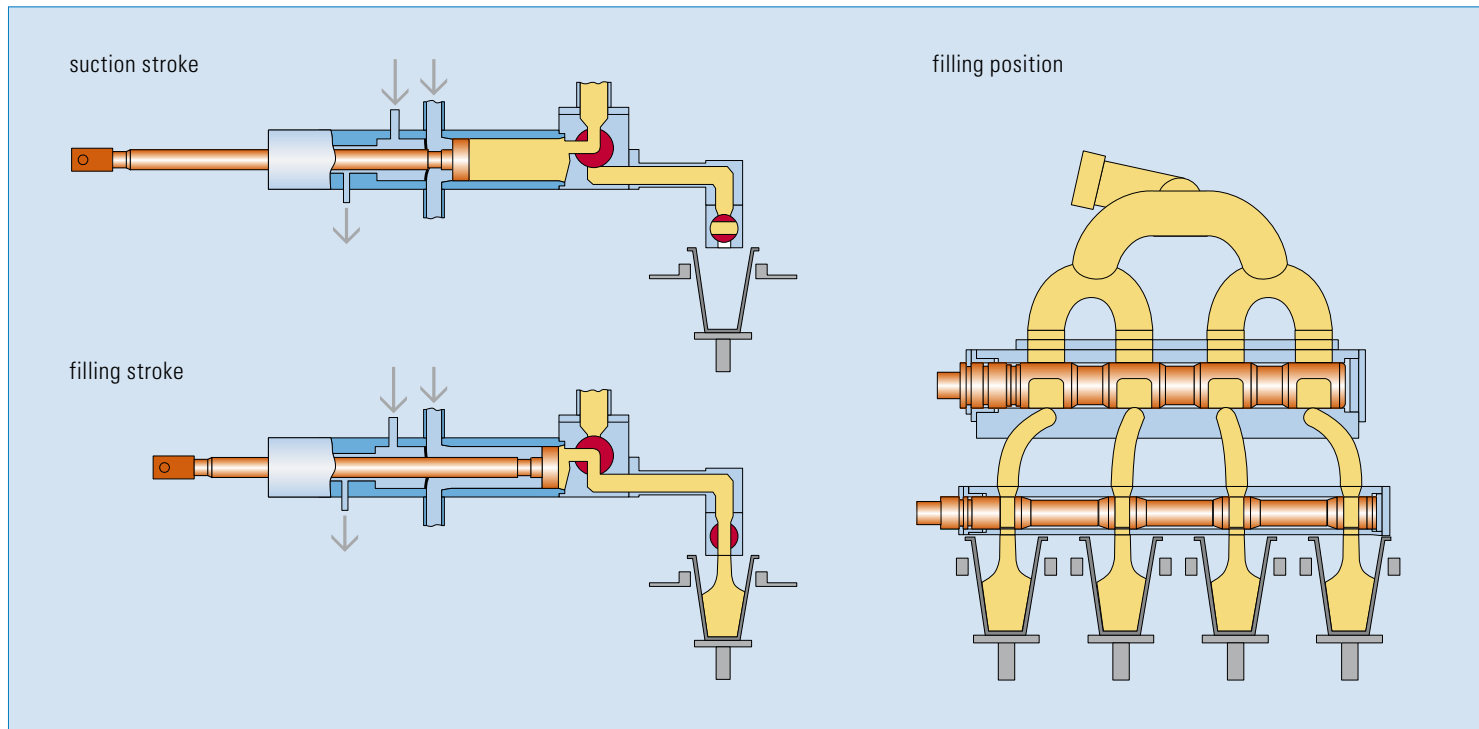
- ergonomically optimized machine design
- continuous motion cup conveyor
- cup pockets with locating pins
- oscillating machine stations synchronized with the cup conveyor
- operation from one side with full all-round view
- central drive with frequency controlled motor
- various hygiene standards
- transparent Polycarbonate/PMMA safety guards

Standard Equipment

- cup de-stacker
- cup sensor for “no cup” and “double cup”
- CIP-filler
- lid applier
- sealing station
- cup lift-out and discharge
- free standing switch cabinet
- operating panel with fault display and alarm
- machine runs from left to right when viewed from the operator side
- standard hygiene level

Optional Equipment

- additional dosing units for multi-layer filling and for spiralled or vertical-layer defined products and other special product presentations
- dosing units for cereals/dry products
- assorted filling, i.e. several product hoppers/ flavours
- 4-way-magazine for assorted filling
- roll stock sealing
- display in operator-machine dialogue (visualization system)
- M.I.S. system
- ink-jet coding system
- hygiene standards: hygienic or ultra-clean
- dust and particle extraction
- laminar air flow cabin
- cup leakage test device
- snap-on lid applier



CIP-filler

Cup Buffer and Feeding Systems

- manual feeding (stack height ca. 650 mm) into the vertical cup de-stacker
- automatic cup feeding from a horizontal magazine

Cup De-stacking Device

- rotating scrolls
- electronic cup sensing for "missing cups" and "double cups"

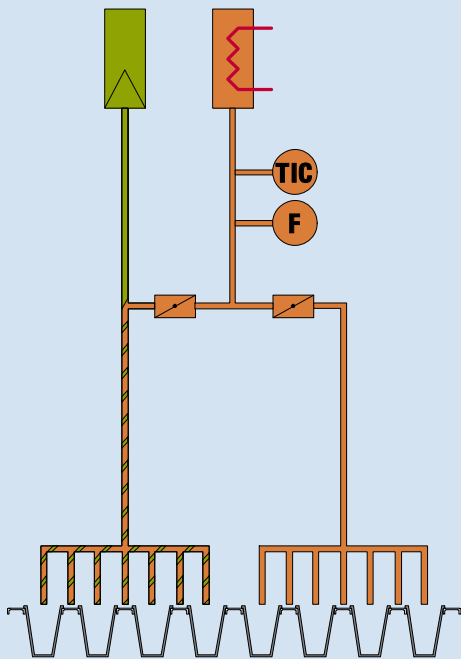
Filler

- mechanically driven from the main drive
- individual fillers – number depending on machine type
- steplessly adjustable piston stroke
- individually calibrated fill pump pistons
- quick change filling nozzles
- quick change string cutter for products with particulates
- tube type nozzles for liquid products
- cup lifting/lowering
- **option:** servo drives for filler and for cup lifting/lowering

Fill Products

The DOGATHERM is able to fill liquid to pasty food products with or without particulates, e.g.

- fermented milk products
- soft drinks
- single and multi-layer desserts also spiralled or vertical-layer defined products and other special product presentations
- aerated products
- fruit preparations/sauces
- rice puddings
- de-hydrated soups (special dosing unit)
- cereals/dry products (special dosing unit)



Packaging material sterilization (H_2O_2)

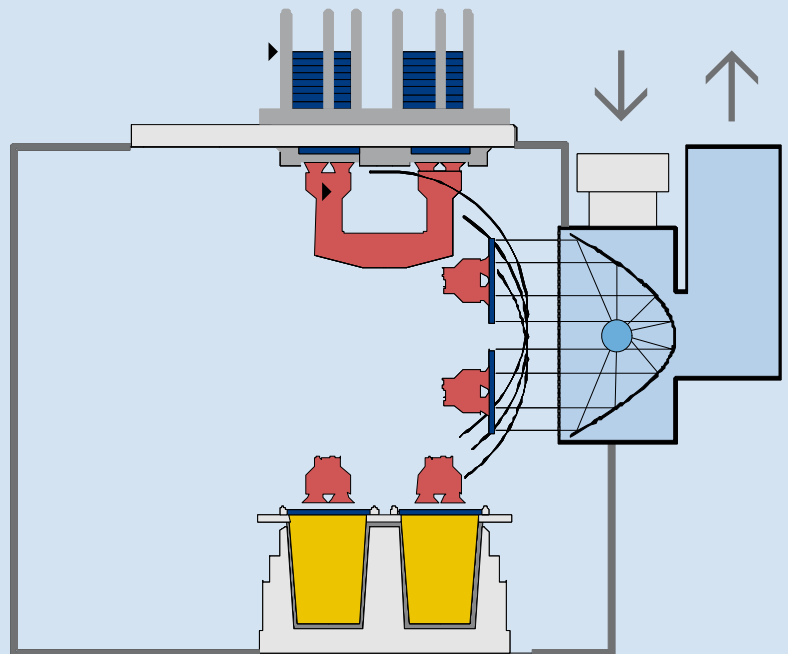
Packaging Material Sterilization

a) with H_2O_2

- dosing of H_2O_2 synchronized with machine speed with fault alarm
- H_2O_2 is atomized into sterile air
- H_2O_2 vapour is sprayed into the cups
- cup drying with heated sterile air
- multiple nozzles ensure complete drying
- extraction of H_2O_2 -laden air

b) high pressure UV-C sterilization system

- high pressure UV-C emitter, ozone free, in a stainless steel housing with quartz filter
- safety reflector protection system, automatically controlled whenever the machine stops
- stainless steel switch cabinet housing all electrical components
- air-cooling system including pipework, fans and air flow controls
- safe and reliable sterilization using long life UV-C lamps plus an intensity recording device
- highly efficient irradiation compared with standard UV-C low-pressure emitters



Lid applier with UV-C sterilization

Lid Applying Station

- standard lid applier for non-assorted filling
- traversing 4-way lid applier for assorted filling, mechanically driven and synchronized with the main drive
- UV-C sterilization system
- lid feeding without machine stop

Heat-Sealing

- drive: traversing, mechanically driven from the main drive, pneumatic vertical motions
- mechanical cup cell plate support
- flexing sealing heads, individually mounted
- individual temperature controls with alarm function
- the sealing heads raise automatically whenever the machine stops

Closures

The following types of closures can be used:

- diaphragm lids made of aluminium and/or plastic material, monofoil
- preformed, heatsealable lids made of aluminium, plastic material, monofoil
- re-closable lids made of plastic material (snap-in or snap-on lids)

Date Coding

- integrated ink jet coding system
- mechanical ink printing station code stamping heads for 1 or 2 lines with exchangeable digits. Station integrated with the lid applier

Cup Discharge

- cup lift-out integrated and synchronized with the cup conveyor
- transfer onto the exit conveyor by means of belts, star wheels or carrier system

Cup Conveyor

- continuous motion
- mechanically driven from the main drive
- steplessly adjustable machine speed
- ramp-up start to the pre-selected speed

Operation

State-of-the-art visualization system with different authorization levels

Displays for

- production
- cleaning
- recipe management
- chronological listing of alarm and message texts
- operation data registration (optional)

Technical data DT 41, 81

pre-filler	10–60 cm ³
main filler	25–280 cm ³ , 50–550 cm ³

Machine type	Number of pumps	Output (cups/h)	max. cup ø	max. cup height
DT 41	4	9,000	115 mm	130mm
DT 81	8	16,000	115 mm	130 mm

OYSTAR Gasti Delivery Program

- Filling and sealing machines for pre-made cups
 - Continuous and intermittent operation
 - Flexible in size and equipment
 - Multi-layer filling
 - Hygiene standards: standard – hygienic – ultra-clean – aseptic
- End-of-line packaging equipment
- Mixing and feeding pumps
- Second-hand machines

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