

Thinking backwards from the customer -

How consumer trends impact hygienic design and automation



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Overview SEW-EURODRIVE portfolio





MOVI-C From Software to gear boxes – one automation plattform

Thinking backwards from the customer - How consumer trends impact hygienic design and automation

Our credo, since 1931





'People don't want products, they need solutions!'

Ernst Blickle

From End User... via OEM ... to automation house

From grass to glass – achieving a common purpose





Genossenschaft Milchhof Sterzing

→ Manufacturer of yogurt in northern Itlay
→ Local Struktures for quality instead of quantity

ASEPTIC FILLING

VMS Maschinenbau GmbH

 \rightarrow Global player for aseptic filling lines \rightarrow Storilo filling for high throughput

 \rightarrow Sterile filling for high throughput



SEW-EURODRIVE GmbH & Co KG

→ Specialist for drive and automation technology
 → Focus on 'right solution for each customer'



Start of the journey "Hygienic Design in the food industry"

Consumer trends – food industry



"batch size 1"	<i>"</i> deliberate eating"	3. "sustainable packaging"
Increasing product variety	Mindful selection of food	environmentally friendly with renewable resources
 Type and brand variety 	Local products	 Paper and glass as sustainable materials
 Size and batches 	Origin and animal welfare	Avoiding micro plastic
• Rapid individualisation (promotion, sales campaign)	Focus on quality	Recyclable & resource reducing
 Trending food/ Super foods / supplements 	 traceability of product origin 	Consumer health (e.g. aluminium)
 Vegan/ vegetarian 	 Vegan/ vegetarian 	Reduction of material mix
 organic / Demeter/ local 	 organic / Demeter/ local 	
\rightarrow I buy exactly the product I want	ightarrow I want know what I'm buying (End to end)	→ Less garbage = less pollution

Solutions of all partner



End User	ASEPTIC FILLING VMS	SEW-EURODRIVE
"From grass to glass"	KONTIFILL GLASSLINE	"Hygienic Design" solution
 Continuous adjustment of production line variety: 3 product lines: Standard, organic, organic hay milk local: 600 famers, 50km radius, 15 cows per barn 	 Glass filling brought to perfection Gentle transport und consistent processes Minimal containment risk: sterilisation above nozzle Elexible divided sterilisation process (log6 thermal) 	 From PLC to gear shaft Optimised software features with MOVI-C Controll and MOVIKIT[®] AntiSlosh → increase of OEE
 High quality: quality instead of quantity, payment per quality Sustainable packaging with glass Transparent packaging for visual products 	 Modular machine set up without sealing in filler unit eliminating wear and accurate, stable filling processes Recipe management incl. automated CIP / SIP 	 Large visualisation portfolio → simple recipe management Stainless steel servo → CIP und SIP, elimination of dead room Approved hygienic design concept > lagget segurity

News within the "Hygienic Design" portfolio **Stainless steel servomotor and gearmotor PSH.. CM2H..**





The solution: Stainless steel servo portfolio | Standalone motors and gearmotors



Shorter cleaning times





Prevent of product contamination



Open machine design compactness



System from a single source one-stop-shop





News within the "Hygienic Design" portfolio **Stainless steel servomotor and gearmotor PSH...CM2H...**





- Solomotors and gearmotors in stainless steel
- Hygienic design Developed according to EHEDG and FDA
- Servomotors, 400V
 5 different sizes, each available in 3 different lengths
- Planetary gear units
 - Direct mounting
 - Gear ratios i= 3 / 5 / 7 / 10
- Degree of protection
 IP69K
- Optional brake, resolver or HIPERFACE® (FS)
- Approvals: CE , UL/CSA

News within the "Hygienic Design" portfolio

Servomotors | CM2H...





Size	Flange Ø B14 mm	Nominal torque range in Nm	Rated current in A	Power range in kW	Outer diameter in mm
42	55	0,35 - 0,75	0.75 – 1.10	0,3 - 0,5	73
52	65	1,0 - 1,8	1.4 - 1.8	0,6 - 0,8	88
62	85	1,6-4,0	1.9 – 2.9	0,8 - 1,3	107
72	115	3,4 - 7,4	3.7 – 5.6	1,6 – 2,32	138
82	130	4,4 - 13,0	4.8 - 8.2	2,07 - 3,43	150

News within the "Hygienic Design" portfolio

Gearmotors | PSH...CM2H...





Size	Nominal torque range for output in Nm	Outer diameter in mm
42	1,0 – 5,7	73
52	2,3 – 13,8	88
62	3,1 – 27,6	107
72	6,0 – 56,1	138
82	9,1 – 103,6	150

News within the "Hygienic Design" portfolio The added value for you





News within the "Hygienic Design" portfolio

Applications in the food, beverage & pharmaceutical industries





Cutting machines for e.g., sausage, cheese



Filleting machines for fish



Filling and metering





Aseptic and ultraclean filling systems

CIP | SIP processes

Cleaning /sterilizing in

place



Pick & place robots



machines