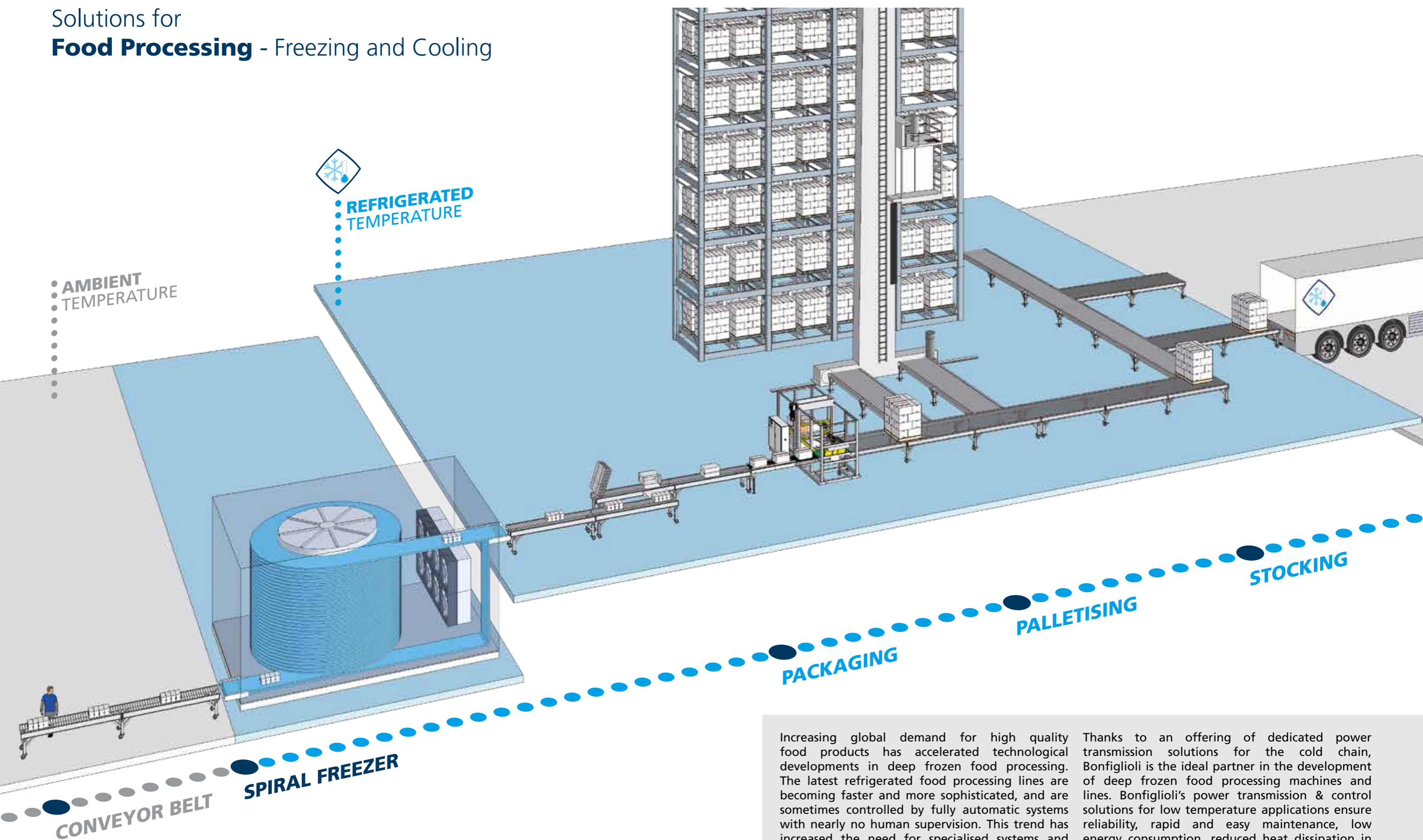




Bonfiglioli Industrial

Solutions for
Food Processing
Freezing and Cooling

Solutions for **Food Processing** - Freezing and Cooling

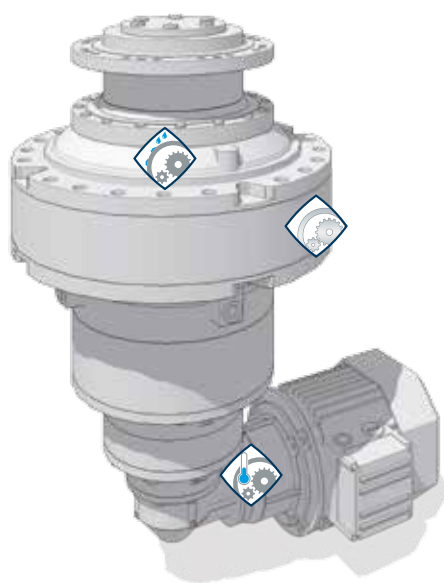


Increasing global demand for high quality food products has accelerated technological developments in deep frozen food processing. The latest refrigerated food processing lines are becoming faster and more sophisticated, and are sometimes controlled by fully automatic systems with nearly no human supervision. This trend has increased the need for specialised systems and components to ensure reliability, efficiency, rapid maintenance, flexibility and productivity - key requisites for today's deep freezing technology.

Thanks to an offering of dedicated power transmission solutions for the cold chain, Bonfiglioli is the ideal partner in the development of deep frozen food processing machines and lines. Bonfiglioli's power transmission & control solutions for low temperature applications ensure reliability, rapid and easy maintenance, low energy consumption, reduced heat dissipation in low temperature environments and the flexibility needed to satisfy the most demanding customers.

2 Spiral freezer applications

The shape of our planetary gearboxes fits perfectly in the design of typical single or double spiral freezers. Our planetary gearboxes and gearmotors for spiral freezers boast an extremely favourable torque/size ratio, behave perfectly at very low speeds and incorporate a variety of solutions to prevent oil leakage and water ingress, occurrences that can dramatically reduce drive train lifetimes.

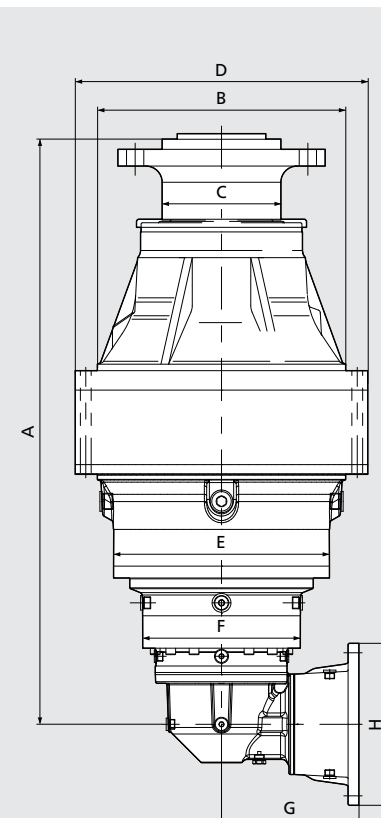


- Water defender system
- Special lubricant and seals for low temperature applications
- Special surface treatment with zinc coating

Bonfiglioli solutions

- 5 stage planetary bevel gearmotors with ratios up to 5000
- Torque range from 20 to 1000 kNm
- Water defence system
- Expansion tank
- Food grade lubrication for low temperature environments

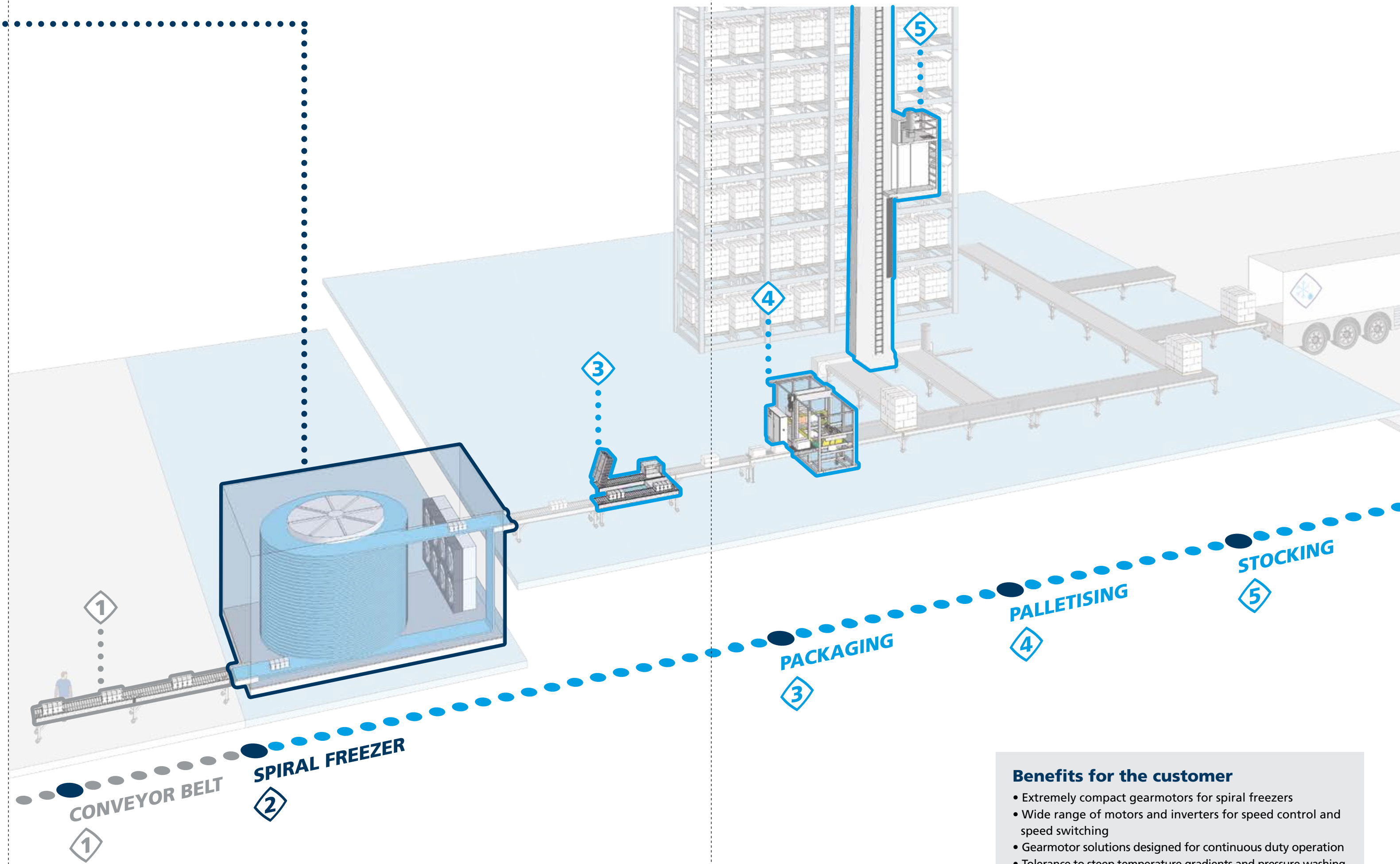
300 series
Spiral freezer configuration



Technical data

Size	M _{n2} MAX [Nm]	Dimensions [mm]							
		A	B	C	D	E	F	G	H
307	21.000	642	-	212	348	244	186	206	tbd
309	29.000	664	225	216	348	244	186	206	tbd
310	47.600	754	340	238	400	292	186	216,5	tbd
311	58.300	824	358	234	428	348	244	216	tbd
313	105.000	902	385	267	445	348	244	217	tbd
314	115.000	1094	460	315	542	400	292	234	tbd
315	135.000	1139	460	315	542	430	348	255	tbd
316	192.000	1045	580	420	542	428	244	254	tbd
317	393.000	1185	560	510	695	445	348	254	tbd
318	550.000	1392	700	480	695	542	428	368	tbd
319	680.000	1546	800	365	940	543	428	398	tbd
321	934.000	1806	940	600	940	695	348	540	tbd

Note! On request, we can provide units with a torque capacity of up to 2000 kNm.



- ### Benefits for the customer
- Extremely compact gearmotors for spiral freezers
 - Wide range of motors and inverters for speed control and speed switching
 - Gearmotor solutions designed for continuous duty operation
 - Tolerance to steep temperature gradients and pressure washing

Other refrigerated applications

- Special lubricant and seals for low temperature applications
- Special surface treatment with zinc coating

A full range of gearmotors and inverters covers all the requirements of deep frozen food processing and logistic lines throughout the cold chain.

- Right angle shaft worm gearmotors designed for rapid and easy maintenance and replacement
- Motor configurations for low temperature environments (heaters, reinforced insulation, condensation discharge hole, etc.)
- Special inverter stand-by function for significant energy savings

1 Conveyor belt

Worm gearmotors
W series
VF series
Inverter
Agile series

3 Packaging

Shaft mounted gearmotors
F series
Helical-bevel gearmotors
A series
Inverter
Agile series

4 Palletizing

Shaft mounted gearmotors
F series
Helical-bevel gearmotors
A series
Inverter
Agile series

5 Stocking

Shaft mounted gearmotors
F series
Helical-bevel gearmotors
A series
Inverter
Agile series



Bonfiglioli has been designing and developing innovative and reliable power transmission and control solutions for industry, mobile machinery and renewable energy applications since 1956.

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