

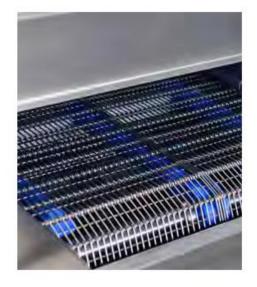
The Dohmeyer Top Lifting Tunnel combines inline freezing power with class leading hygiene and easy cleanability

Top Lifting Tunnels are opened by raising the top section of the freezer using screw jacks in the

support legs. A clearance of ca. 700 mm is available when the tunnel is in the open position



which provides an excellent access for cleaning and maintenance operations inside the tunnel. Every Dohmeyer Tunnel is equipped with either liquid nitrogen or liquid carbon dioxide (CO2) injection, depending upon the product and process requirements. The freezing action happens right inside the tunnel where the cryogenic gases are injected into an insulated cold zone as the food product passes through it.



Liquid nitrogen and CO2 deliver the ultimate in cryogenic freezing power by minimizing any aroma, flavor and dehydration losses to the food product. Because these cryogenic gases are inert, they also provide a protective atmosphere inside the freezing zone which prevents any oxidation of the food. As a result, the quality attributes of cryogenically-frozen food products are far superior to those same products frozen in a mechanical system.

The power of cryogenics is also due to the extremely low operating temperatures of the freezing equipment which freezes the food products much faster than with traditional methods. Dohmeyer Tunnels are designed to operate at temperatures as low as -65°C for liquid CO2 injection or -120°C for liquid nitrogen

injection. At these low temperatures, the food product is preserved under the best possible frozen conditions to ensure that microbial activity is reduced to a minimum.

Dohmeyer can recommend the best cryogen and injection set-up for various types of food products or processing constraints. There are two injection set-ups to choose from depending upon the temperature profile that is needed to freeze the food product: Isothermal or Counter-Current. Isothermal tunnels provide a uniform openating temperature throughout the cold zone while



counter-current tunnels create a temperature gradient inside the tunnel by guiding the cold gases in the opposite direction to the product flow. In addition, Dohmeyer is able to provide specially-designed fan blades, based on its on-going research efforts, for different convection set-ups in order to increase the freezing rate of many types of food products while optimizing the operational efficiency of the cryogenic gases.

Dohmeyer builds every one of its cryogenic Tunnels in compliance with CE Directive 2006/42/CE, EN 1935/2004 and to the latest standards in food

equipment hygiene design. Any components that are in direct contact with the food product are made using AISI 316 stainless steel in order to eliminate any food safety hazard. All other components and the main freezer structure are constructed with AISI 304 fully welded stainless steel materials or, as an option, AISI 316. Dohmeyer uses the best materials of construction to ensure the life-long durability of the equipment with easier, faster cleaning operations and minimal requirements for on-going maintenance.

All Dohmeyer Tunnels are equipped with a standard, operator-friendly HMI touch screen and Siemens PLC software with recipe storage capabilities to ensure a consistent freezing result every time.



There is a Top Lifting Tunnel for every budget and processing need					
Overall Belt Width (Usable width)		28" (660mm)	38" (915mm)	50" (1220mm)	62" (1525mm)
Overall Tunnel Width		1680mm	1935mm	22 40 mm	2545mm
Model Number	Freezing Length (mm)	Freezing surface Area (m²)			
DOH-TLT-5000	4000	2.64	3.66	4.88	6.10
DOH-TLT-6000	5000	3.30	4.58	6.10	7.63
DOH-TLT-8000	7000	4.62	6.41	8.54	10.68
DOH-TLT-9000	8000	5.28	7.32	9.76	12.20
DOH-TLT-10000	9000	5.94	8.24	10.98	13.73
DOH-TLT-11000	10000	6.60	9.15	12.20	15.25
DOH-TLT-12000	11000	7.26	10.07	13.42	16.78
DOH-TLT-13000	12000	7.92	10.98	14.64	18.30
DOH-TLT-14000	13000	8.58	11.90	15.86	19.83
DOH-TLT-16000	15000	9.90	13.73	18.30	22.88
DOH-TLT-17000	16000	10.56	14.64	19.52	24.40
DOH-TLT-18000	17000	12.54	17.39	23.18	28.98
DOH-TLT-21000	20000	13.20	18.30	24.40	30.50