

# TL SERIES

english

TECHNOALPIN®






The Technoalpin logo features the brand name in a bold, sans-serif font, with a stylized mountain peak icon integrated into the letter 'A'.

TECHNOALPIN®

## NEW DIMENSION FOR SNOWMAKING. TODAY.

The TL lance series offers a new dimension for snowmaking: maximum and precise efficiency throughout the temperature curve! Thanks to the versatility of the lance series and the different assembly combinations of nozzles and nucleators, for every location there is the right snow lance. The TL series, with TL8, TL4 and TL2, optimizes the snow production sustainably whatever the conditions: marginal or colder temperatures.

[www.technoalpin.com](http://www.technoalpin.com) 

**TL8**



**TL4**



**TL2**





## MAKE THE MOST OF YOUR LANCE. TAKE ADVANTAGE OF ALL TEMPERATURES.

One of the many innovations proposed by the TL lances resides in particular in the new and compact mechanism that controls the combinations of the rings of the lance: the “Smart Distributor”. The Smart Distributor, is added directly under the head of the lance, acts as a valve block and allows to open and close the nozzle rings. For instance, with the TL8 model, 8 different snow productions steps will be available, by combining the opening of the nozzles of each ring.

Due to the multi-step design, it is possible to fine-tune the water flow rate of the snow producer as finely as possible, thereby maximizing the snow production under all temperature conditions. Therefore, the TL series will offer always optimal snow production, over the entire operating range.

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## MAXIMIZE SNOW QUALITY. PRESERVE RESOURCES.

Thanks to the elaborated design, optimum regulation and the use of particularly high-quality components, the TL series makes it possible to obtain the highest quality snow possible. The lances are equipped with particularly wear-resistant components: Three nucleators with ruby inserts and three nozzles per ring with ceramic inserts are standard equipment and guarantee the best snow quality for many years. Due to its design and position directly under the lance head, the Smart Distributer also allows the small amount of residual water in the valve to be emptied into the snow jet by means of compressed air when the stages are switched. Thus, every drop of water is converted into snow.





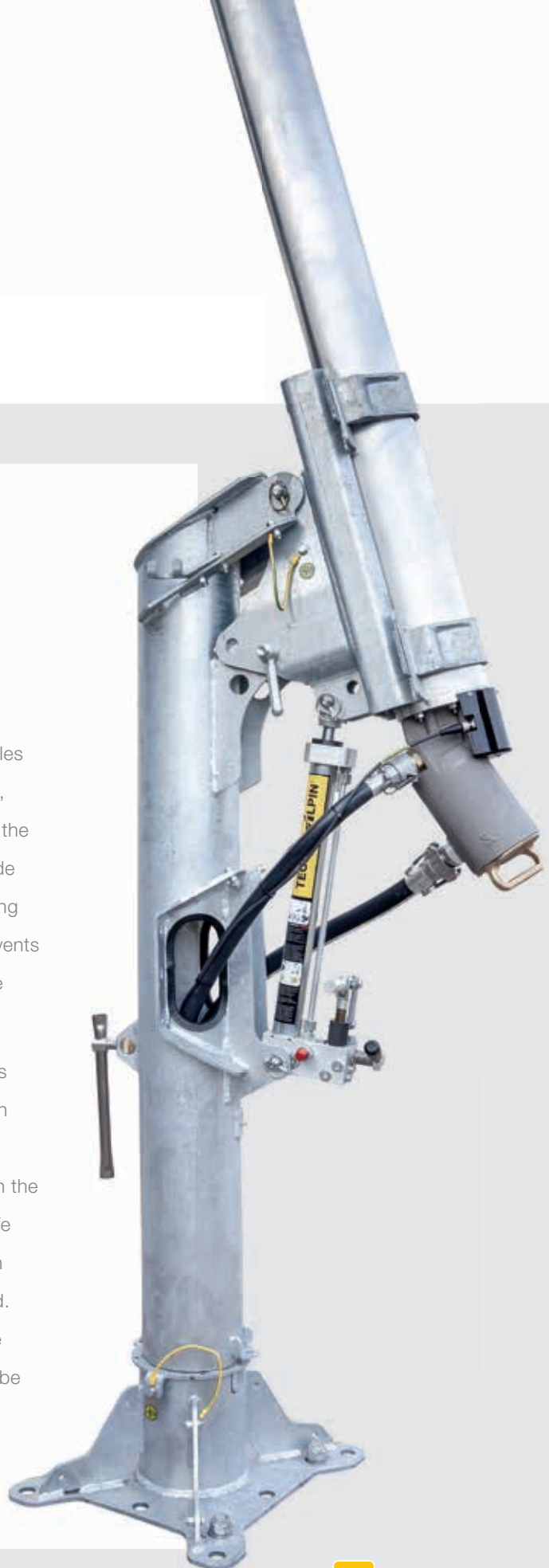
## ENERGY EFFICIENT.

The TL series can be equipped with different nucleators of the latest generation. This guarantees the perfect equipment of the snow lance for every field of application. The very low air consumption, high wear-resistance and increased operational safety are key aspects of these nucleators, while optimizing production. On the other hand, their innovative design enables to prevent the return of water to the air circuit in the unlikely event of loss of compressed air. In addition, the special design of these nucleators ensures a constant quality of nucleation regardless of the water pressure.

## ROBUST CONSTRUCTION. VERSATILITY.

The TL lances is mounted on the new and light universal mast designed by TechnoAlpin. The design allows all cables for the power supply of the valve block, as well as those of the lance head and the optional components to be routed inside it. This eliminates the need for protruding cable ducts on the lance tube and prevents ice from sticking, as well as making the installation much easier.

The simple and robust support consists of a fixed column and a rotating column therefore allowing the lance to be continuously adjusted horizontally. With the manual lifting cylinder mounted in a safe working position, the vertical inclination of the lance can also be easily adjusted. The drop height can be adjusted to the conditions and maintenance work can be carried out on the head.







The standard equipment includes a water filter that is easily accessible from the floor with a weldless stainless-steel cartridge of the type WEDGE WIRE, which is particularly easy to clean. Also included is the Smart Distributor, supplied with 24 V low voltage, which increases work safety. The lance is supplied with water through the YB shaft valve.

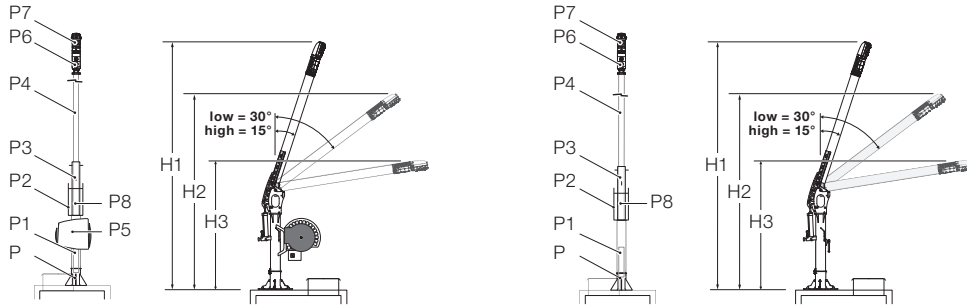




## CUSTOMIZABLE AS NEEDED.

The TL series offers 3 different models: TL8, TL4 and TL2, which can be additionally equipped with different nozzles. Each model is available in a version with centralized compressed air or with an onboard compressor (with an oil-free compressor) for installation without central air. This means that the right version can be found for every installation site. As an option, it can also be fitted with a weather probe, a LED head-light and a radio control kit for autonomous use.

# FACTS AND FIGURES



	<b>TL2</b>	<b>TL4</b>	<b>TL8</b>	<b>TL2</b>	<b>TL4</b>	<b>TL8</b>
	WITH CENTRAL AIR			WITH COMPRESSOR		
<b>Weight</b>						
Plug-in base P	22.2 kg	22.2 kg	22.2 kg	22.2 kg	22.2 kg	22.2 kg
Fixed column P1	12.5 kg	12.5 kg	12.5 kg	12.5 kg	12.5 kg	12.5 kg
Rotating column P2	26 kg	26 kg	26 kg	26 kg	26 kg	26 kg
Support lance pipe P3	18.6 kg	18.6 kg	18.6 kg	18.6 kg	18.6 kg	18.6 kg
Water filter P8	6.3 kg	6.3 kg	6.3 kg	6.3 kg	6.3 kg	6.3 kg
Lance pipe 4 m P4	14 kg	14 kg	14 kg	14 kg	14 kg	14 kg
Lance pipe 7 m P5	27.6 kg	27.6 kg	27.6 kg	27.6 kg	27.6 kg	27.6 kg
Lance pipe 10 m P4	42.3 kg	42.3 kg	42.3 kg	42.3 kg	42.3 kg	42.3 kg
Distributor P6	2.2 kg	5.4 kg	8.0 kg	2.2 kg	5.4 kg	8.0 kg
Lance head P7	4.7 kg	5.5 kg	6.4 kg	4.7 kg	5.5 kg	6.4 kg
Compressor complete P5	-	-	-	90 kg	90 kg	90 kg
<b>Dimensional data 4 m</b>						
Highest working position (15°) H1	4,220 mm	4,380 mm	4,500 mm	4,220 mm	4,380 mm	4,500 mm
Lowest working position (30°) H2	3,987 mm	4,134 mm	4,242 mm	3,987 mm	4,134 mm	4,242 mm
Maintenance position H3	1,540 mm	1,528 mm	1,517 mm	1,540 mm	1,528 mm	1,517 mm
<b>Dimensional data 7 m</b>						
Highest working position (15°) H1	6,890 mm	7,050 mm	7,170 mm	6,890 mm	7,050 mm	7,170 mm
Lowest working position (30°) H2	6,377 mm	6,537 mm	6,657 mm	6,377 mm	6,537 mm	6,657 mm
Maintenance position H3	1,300 mm	1,285 mm	1,274 mm	1,300 mm	1,285 mm	1,274 mm
<b>Dimensional data - 10 m</b>						
Highest working position (15°) H1	9,780 mm	9,940 mm	10,060 mm	9,780 mm	9,940 mm	10,060 mm
Lowest working position (30°) H2	8,976 mm	9,120 mm	9,230 mm	8,976 mm	9,120 mm	9,230 mm
Maintenance position H3	1,036 mm	1,022 mm	1,010 mm	1,036 mm	1,022 mm	1,010 mm
<b>Electrical data</b>						
Voltage drive motor (head)	24 V	24 V	24 V	24 V	24 V	24 V
Power drive motor (head)	18 W	35 W	52 W	18 W	35 W	52 W
Heating	15 W	15 W	20 W	15 W	15 W	20 W
Compressor voltage	-	-	-	400 V	400 V	400 V
Nominal frequency	-	-	-	50 Hz	50 Hz	50 Hz
Compressor power	-	-	-	4,0 kW	4,0 kW	4,0 kW
Connection plug (compressor)	-	-	-	5x16 A	5x16 A	5x16 A
<b>Water</b>						
Water pressure min.	15 bar	15 bar	15 bar	15 bar	15 bar	15 bar
Water pressure max.*	60 bar	60 bar	60 bar	60 bar	60 bar	60 bar
<b>Nozzle configuration</b>						
Nucleators no.	3	3	3	3	3	3
Fixed nozzles no.	3	3	3	3	3	3
Switchable nozzles no.	3	6	9	3	6	9
Adjustable steps no.	2	4	8	2	4	8

\*A pressure class of PN80 is possible with type 2SN hoses if screw fittings with thread and union nut are used instead of the Camlock connections.



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