



TF 10 piano

TECHNOALPIN®

TF10

piano

High snow output, large projection range, low noise levels. With 24 Quadrijet nozzles and eight nucleators, the TF10 is TechnoAlpin's most powerful snow gun to date. By using a frequency converter, the TF10 Piano model allows for a particularly quiet partial-load mode to be selected during the night when noise-levels are especially important. The TF10's large projection range and surface-area coverage are maintained. In this way, the TF10 Piano combines the efficiency of the TF10 with ever lower noise emissions.

MORE POWER - LESS NOISE



TF 10

OUR SNOW IS YOUR SUCCESS.

piano



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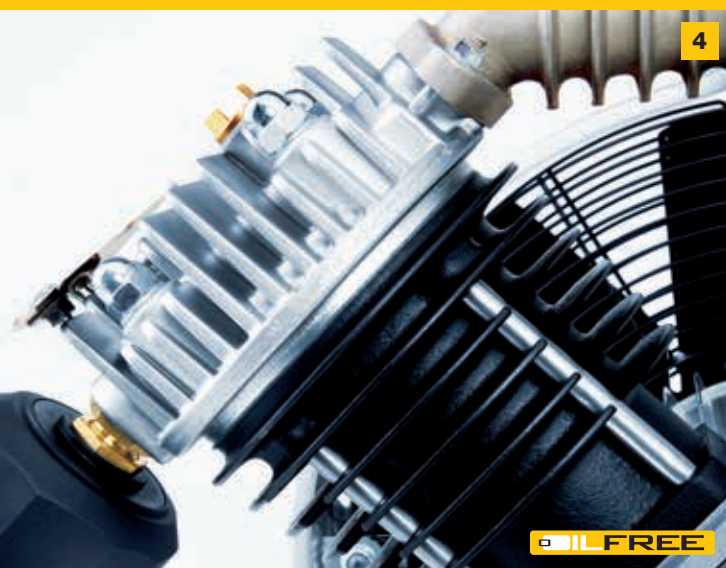
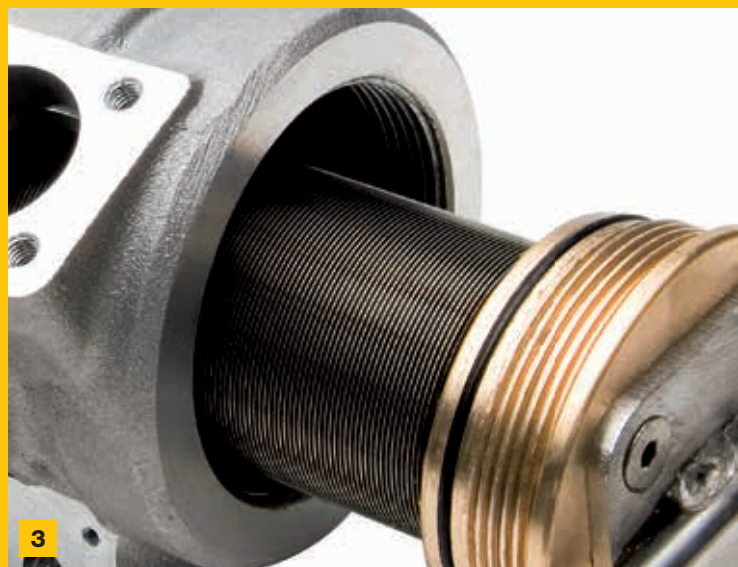
TF 10

piano



HIGH-QUALITY COMPONENTS FOR OPERATING EFFICIENCY.

1 The turbine, with internal motor and a speed of 1,460 rpm (1,170 rpm for partial load), means that the machine is not sensitive to vibrations and reduces noise emissions. The soundproofing insulation absorbs the noise created by the turbine rotating. **2** The nozzle



ring is fitted with 24 Quadrijet nozzles and eight nucleators. There are 16 variable stages of water flow for optimum adjustment to the prevailing conditions. **3** The tried and tested “wedge wire”-type nickel chromium steel water filter guarantees maximum strength and simple cleaning. It does not have any seams, nor does it have the conventional mesh, but it is rolled from a triangular high-grade steel wire. **4** Oil-free compressor with special air filter. Special air filters sustainably reduce noise emissions. A closed, soundproof cover provides additional acoustic insulation. **5** The TechnoAlpin meteostation enables precise measurement of temperature and relative atmospheric humidity.

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1 The new user interface with color screen and LED-backlit keys, protective canopy and anti-vandalism features simplify the control process. **2** Bluetooth remote control is available as an option. **3** The rotating mechanism allows horizontal rotation of 360° and an oscillation pivoting angle of up to 180°. **4** Electric cabinet. The frequency converter integrated into the electrical cabinet enables partial-load operation with the TF10 Piano. This means that motor speed decreases from 1,460 rpm to 1,170 rpm. **5** Access to the key-board, height adjustment, horizontal release, rotation and Emergency Stop are located on the same side of the machine increasing user-friendliness.



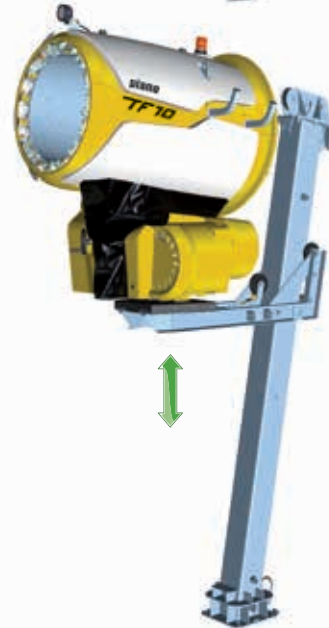
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THE NEW GENERATION.

TF10

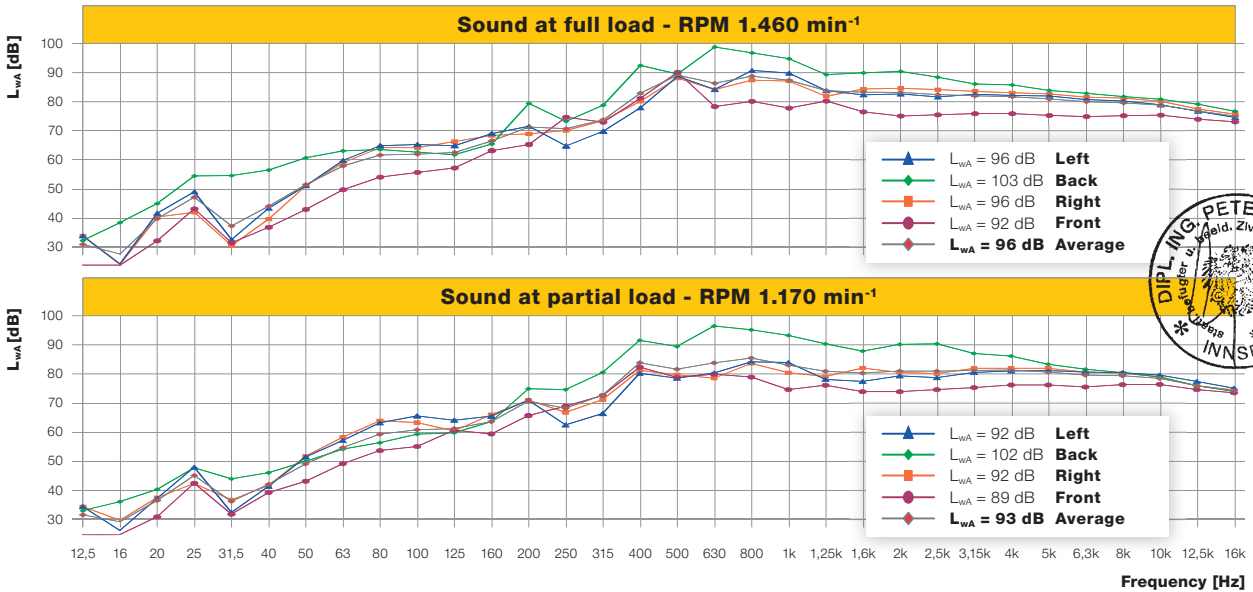
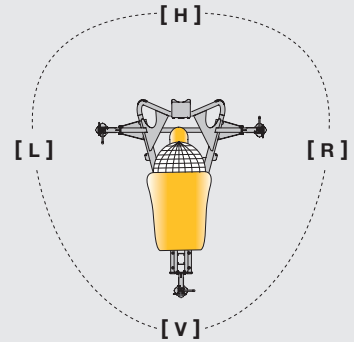


1 TF10 arm-mounted. The arm is rotatable and height-adjustable. The standard lengths of the arm are 12 m and 8 m. **2** TF10 mobile. The undercarriage provides mobility and flexibility. The tried and tested three-point transport system is straightforward and compatible with any snow grooming machine. **3** TF10 tower-mounted. This fixed installation is most frequently used on sections of slope which require large amounts of snow and are difficult to access. Universal tower height: 1.6 m. **4** TF10 lift-mounted. Manual or hydraulic adjustment facility – standard heights: 4.5 m or 3.5 m.



Mechanical stand & undercarriage. The new stand and the optional two-part carriage allow simple and safe conversion from mobile unit to stationary lift machine. The front section of the undercarriage can be removed from the snow groomer blade with a few movements and the machine can be mounted and attached directly to the lift carriage. The jacks and rear section of the carriage can then be dismantled. The snow gun is then connected, moved into operating position and the entire undercarriage is simply taken away by the snow groomer.

Noise level L_A - Calculated results				
Distance [m]	Front V [dB]	Back H [dB]	Left L [dB]	Right R [dB]
Results at full load - RPM 1.460 min ⁻¹ Technical report: 24-057-1 06.03.2014				
20	58	69	62	62
25	56	67	60	60
50	50	61	54	54
100	43	54	47	47
200	36	47	40	40
Results at partial load - RPM 1.170 min ⁻¹ Technical report: 24-057-1 06.03.2014				
20	55	68	58	58
25	53	66	56	56
50	47	60	50	50
100	40	53	43	43
200	33	46	36	36

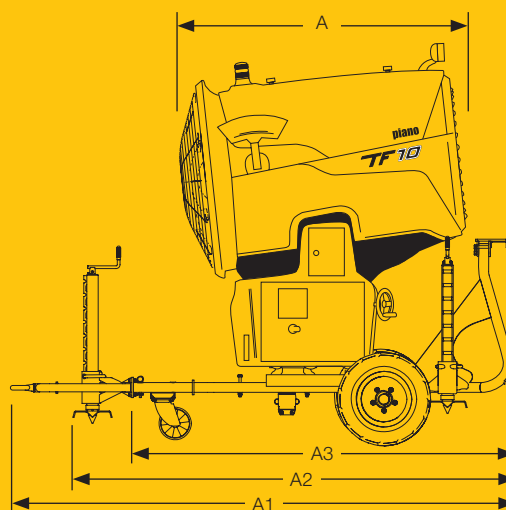
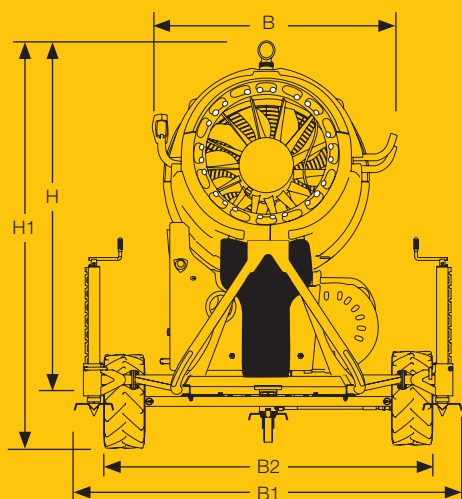


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REDUCED TURBINE FREQUENCY.

TF 10

FACTS AND FIGURES.



Gun length A	1,750 mm
Gun width B	1,510 mm
Gun height H	2,150 mm
Length max. A1	3,000 mm
Length without tow A2	2,700 mm
Length without front jack A3	2,350 mm
Width max. B1	2,350 mm
Width [wheels] B2	2,000 mm
Total-height H1	2,535 mm
Guns weight	755 kg
Undercarriage with jacks	165 kg
KIT for mobile carriage tow (GRPT0013)	85 kg
Nominal voltage	400 V
Nominal frequency	50/60 Hz
Connection plug	5x63 A

Full load current snow gun	43* A
Nominal power - largest motor (turbine)	18.5 kW
Compressor	4 kW
Heating	0.5 - 1.8 kW
RPM (full load)	1,460 U/min
RPM (partial load)	1,170 U/min
Horizontal rotation	360 deg (°)
Automatic swing	180 deg (°)
Turbine inclination	45 deg (°)
Operating water pressure	8 - 40 bar
Water filter	250 micron
Nucleators	8
Fixed nozzles type Quadrijet	8
Operable nozzles type Quadrijet	16
Connection water - Camlock	2 in (")

* Measurements at 1,500 m above sea level



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