



**AIR,
MECHANICAL,
WATERLESS.
COMBINED.**



Turn your wheel loader into a year-round sweeper.
For the city. For industry.



“With Trombia you sweep cleaner than with suction sweeper trucks that cost five times more than a Trombia.”

VEGARD ANTHONI JORGENSEN
Tromssa seaport // Norway

“We have to sweep three-four times the same slot with a normal sweeper, but only one pass with faster speed with Trombia.”

VICTOR HALLEN
Hallens Gruppen Ab // Sweden



HIGH PERFORMANCE SWEEPING

	TROMBIA AERO	CITY SWEEPERS IN THE MARKET
Sweeping width [min]	7.20 ft / 220 cm	6.5 ft - 8.2 ft / 1.9 m - 2.5 m
Sweeping width [max]	8.20 ft / 250 cm	7.21 ft - 9.00 ft / 220 cm - 280 cm
Dust removal width [max]	7.20 ft / 220 cm	1.31 ft - 3.28 ft / 40 cm - 100 cm
Operating speed max	10-12 mph / 15-20 km/h	5-10 mph / 10-16 km/h
Efficient sweeping speed	1.0-10 mph / 1-15 km/h	1-1.8 mph / 1-2 km/h
Hopper capacity	2.35 yd ³ / 1.8 m ³	1.3 yd ³ - 9 yd ³ / 1.0 m ³ - 8.0 m ³
Water tank	18.5 gal / 70 l	58 gal - 150 gal / 200-550 l
Water consumption	0-26 gal/h / 0-90 l/h	100-260 gal/h / 300-900 l/h
Main dust suppression	Waterless Trombia Cyclone	Water sprinkling
Dust control below zero degrees	YES	NO
Dust suppression, extreme conditions	Trombia Extra Dust Control	Water sprinkling
PM2,5/10 Eunited Rating	4 stars	Zero - 4 stars

SWEEPING REBORN

Trombia AERO is a revolutionary sweeping attachment that turns your wheel loader into a year-round area and street sweeper. It delivers superior cleaning results, PM10-certified cyclone-based dust control, high operating speed and easy serviceability.

Equipped with the Smart Trombia automation system, Trombia AERO automatically optimizes sweeping height and position while providing the operator with essential operational data.

A fraction of the cost of a self-propelled vacuum sweeper or road sweeper. The cleaning efficiency to match. For contractors, industrial sites and city fleets – wherever wheel loaders sit idle.

COST-EFFICIENCY AS STANDARD. YEAR-ROUND ON THE JOB.

Most wheel loaders only earn their keep during the snow season. Trombia changes that. The same machine sweeps streets, urban spaces and industrial yards – twelve months a year.

The investment is marginal next to a large road sweeper or a self-propelled vacuum sweeper. The cleaning efficiency and working speed are not.

CLEANER – WITH A WATERLESS SWEEPING SURFACE.

Trombia takes the best of mechanical sweeping and vacuum sweeping – dust controlled on a dry surface.

Four technologies, patented as one system: Trombia Cyclone closed-loop air circulation, vacuum suction, Trombia Airknife and the Trombia Performance Broom. Together they lift, capture and contain debris in a single pass.

Water turns street dust into sludge. Sludge clings to surfaces and resists vacuuming. Dry sweeping avoids this problem entirely.

Cleaner surfaces. First pass.



AIR, MECHANICAL, WATERLESS. COMBINED.



PERFORMANCE BROOM inside the chamber with rotational speed up to 380 rpm ensures that Trombia can sweep also the heavier and larger debris. With Trombia you'll sweep from the finest dust to larger stones, leaves, wood and cultural waste.



ORGANIC VACUUM created by the Trombia Airknife fan and the rotational airflow of the main broom takes care of the dust movement towards the Trombia Cyclone and the dust hopper.



TROMBIA CYCLONE takes care of the air separation before the clean air is blasted back to the Trombia Airknife.



TROMBIA AIRKNIFE dust removal technology operates on dry surfaces and blasts the harmful PM10 and PM2.5 dust off the ground to the sweeping process to deliver the finest sweeping result in the market.

The combination of the patented Trombia® sweeping technology with modern Smart Trombia automation is designed to enable:

- ▶ **SUPERIOR SWEEPING RESULT**
- ▶ **EXCEPTIONAL WORKING SPEED**
- ▶ **WATERLESS STREET SWEEPING**
- ▶ **EASY-TO-DRIVE FUNCTIONALITY**
- ▶ **DUST CONTROL UP TO THE HIGHEST EUROPEAN UNION STANDARDS**
[Eunited PM2,5/PM10]

SWINGSWEEP SYSTEM

Too much pressure wears the brush. Too little misses debris. The new Trombia SwingSweep system on Trombia AERO manages brush-to-surface pressure dynamically – adjusted in real time, controlled from the cab.

Longer brush life. Less sweeper wear. Without operator intervention.

NEW DESIGN

Trombia AERO is designed with Nordic design elegance, and functional engineering choices to simplify your daily operation.

HYDRAULIC OIL COOLER

Ensures compatibility with your loader

TÜV COMPLIANT FRONT CAMERA

Optional TÜV-certified front camera for crossroad detection.



SMART TROMBIA TOUCHSCREEN

- | | |
|--|------------------------------------|
| 1. Optimal sweeping height indicator | 6. Sidebroom speed control |
| 2. Trombia Extra Dust Control function | 7. Sideshifting function |
| 3. Main broom and Airknife RPM indicator | 8. Open/close dust hopper |
| 4. Tilt and floating indicator | 9. Right-side sidecurb camera view |
| 5. Activate/deactivate sidebroom | 10. Dynamic pressure - Swingsweep |

TROMBIA AERO
**FOR MULTIPLE
DEMANDING
MISSIONS....**

**Municipal
sweeping**



“The main reason for purchasing Trombia were the exceptional dust removal and dust control capabilities. Maintenance costs with Trombia have been marginal – only wear out items really.”

ANTTI EKLUND
Arkea Oy // Turku, Finland

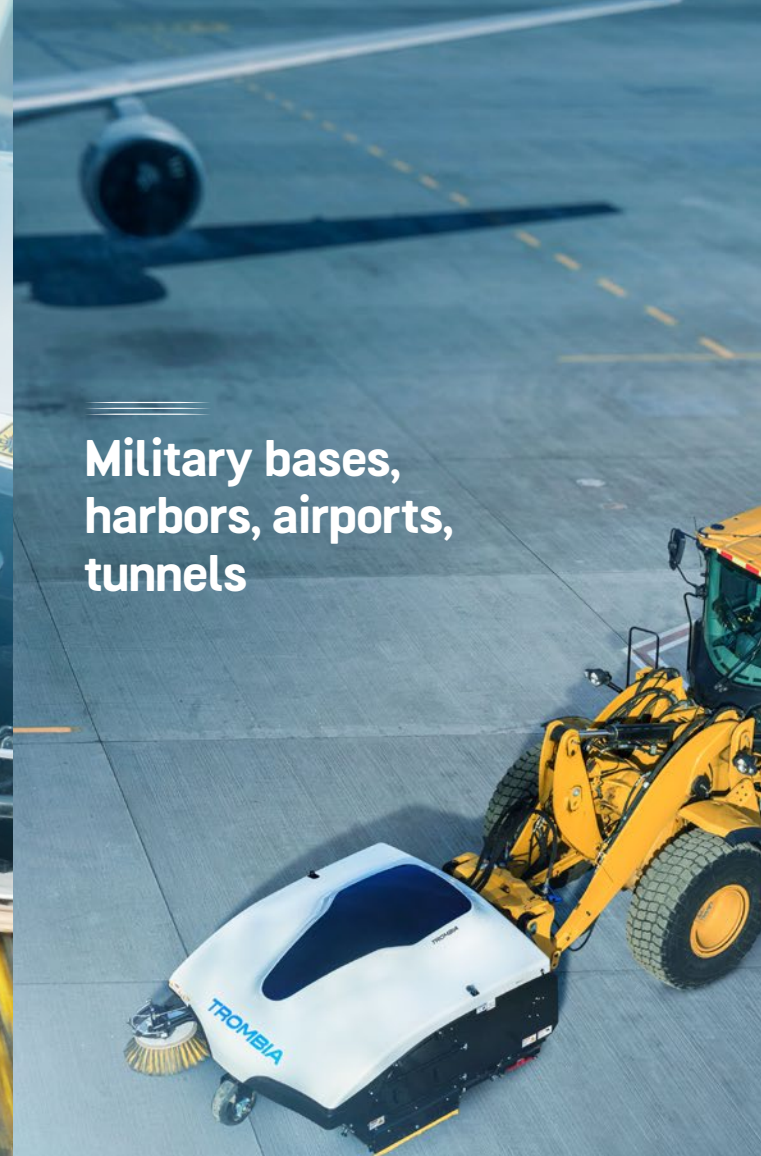
**Industrial areas,
recycling centers,
millings sites**



“We chose Trombia for dust control – and we have zero dust.”

LUGINBÜHL ET SIE CA
Sion, Switzerland

**Military bases,
harbors, airports,
tunnels**



“After years of use, we have to say it works great. On our large surfaces it is perfect. Plus it is easy to empty and easy to clean.”

BENGT ANDERSSON
Hallands Hamnar Ab // Varberg, Sweden



SPRING

Sand and dust cleaning after winter.



SUMMER

Summer-time cleaning and city festival waste.

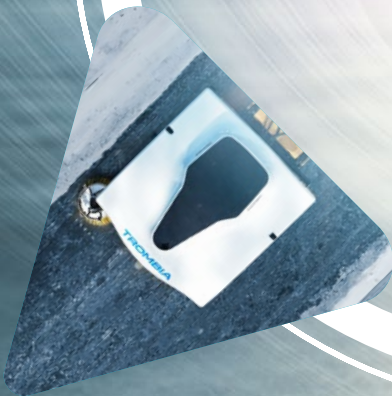


THROUGHOUT THE YEAR



WINTER

Sweeping in sub-zero temperatures. Trombia Aero uses no water that can freeze the ground!



AUTUMN

Leaves sweeping and collection.



EASY TO USE

All functions of Trombia are steered from the touch screen inside the cabin. Rotation speed, side-shifting and opening and closing the dust bin are only one touch away behind the 7 inches touch screen!



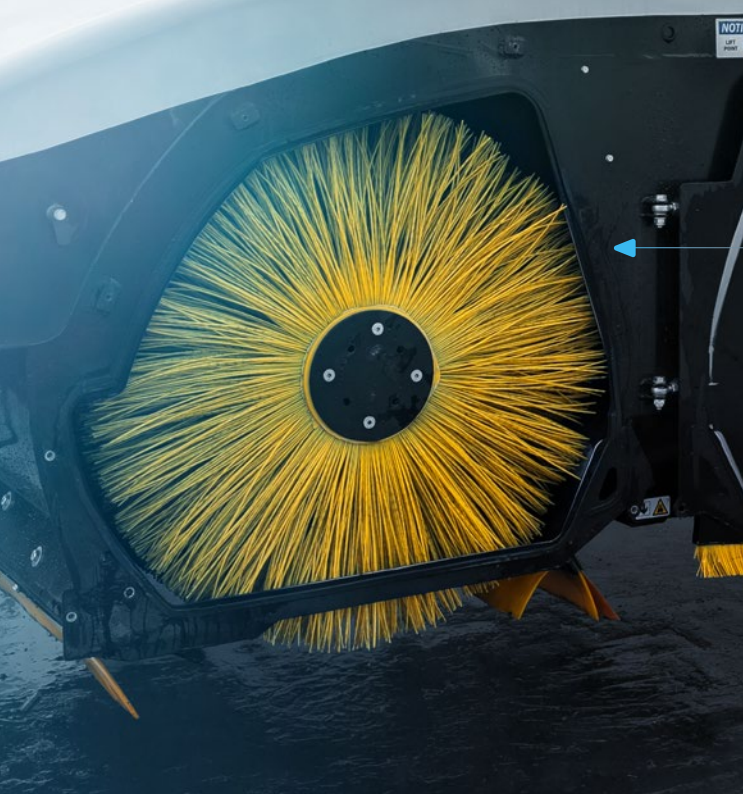
AUTOMATION

Every Trombia product is equipped with ground height sensors, which allows Smart Trombia automation to adjust the device height from the ground depending on the changes in the surface. The driver shall only set Trombia down at the beginning of the work day and the automation takes care of the rest! Enjoy.



WATERLESS CLEANING

Patent-protected Trombia method allows cleaning to be carried out fully dry without watering the streets. Dry cleaning ensures the optimal cleaning result as the airknife, vacuum and mechanical brushes operate on a dry surface. The ecological water-saving Trombia method will soon be a must-have everywhere!



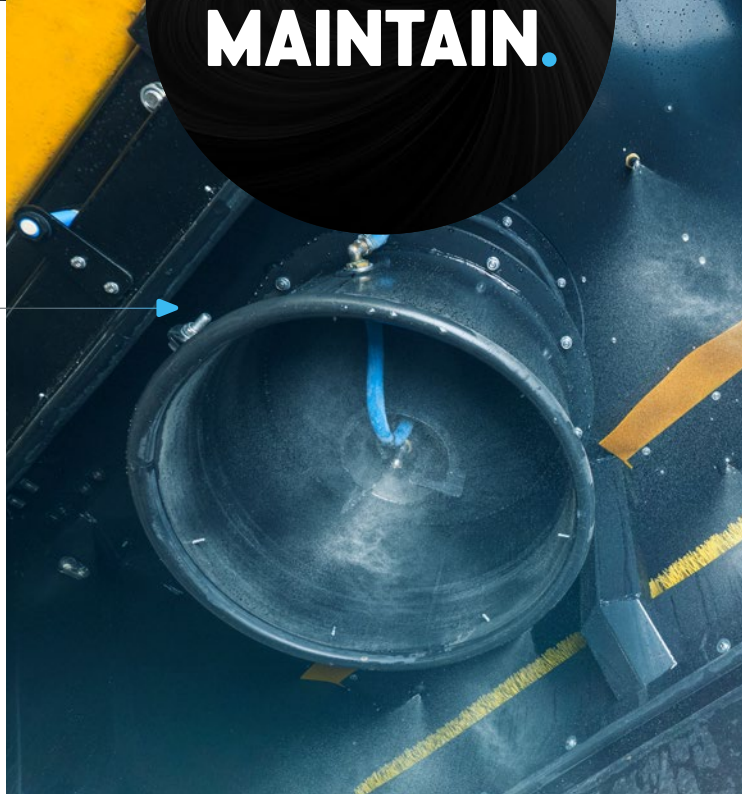
MAINTENANCE DOORS FOR BRUSH REPLACEMENT

Trombia's Performance Broom is fast to replace. You open the hinged maintenance doors on both sides and directly have access to the wafer discs to be replaced.

**EASY TO
MAINTAIN.**

AUTOMATIC WASHING SYSTEM

Trombia AERO comes with a new automated washing system as an option. Your operator will just plug in the waterhose, and the automated washing cycles operated from the touchscreen



STURDY FRONT CASTER

Trombia's decades long engineering in sweeping equipment is seen in details. The sturdy front caster endures wear and tear in rough conditions.

- + NO SEPARATE FILTERS THAT REQUIRE CONSTANT WASHING AND REPLACEMENT
- + NO AUXILIARY ENGINES TO MAINTAIN
- + NO EASILY BREAKING SUCTION NOZZLES, ELEVATORS OR CONVEYOR BELTS
- + FAN LIFETIME 5+ YEARS (BLOWERS OPERATE CLEAN AIR)
- + BRISTLE LIFETIME FROM 100 UP TO 200 HOURS

TECHNICAL SPECIFICATIONS

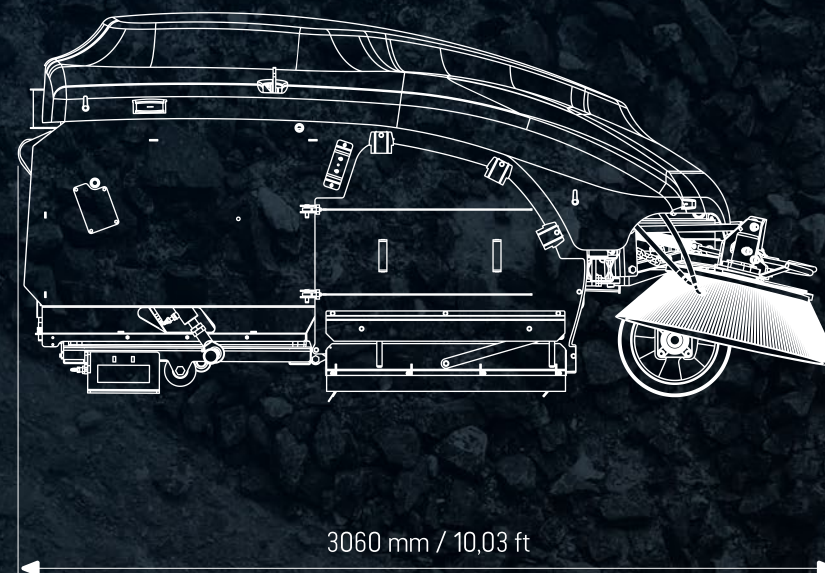
DIMENSIONS, WEIGHT AND HYDRAULICS

TROMBIA AERO

Lenght	10,03 ft	3060 mm
Height	4,75 ft	1450 mm
Width	7,79 ft	2375 mm
Theoretical hopper capacity	2,35 yd ³	1,8 m ³
Efficient hopper capacity	1,5 yd ³	1,2 m ³
Empty weight	3090 lbs	1600 kg
Hydraulic flow required (min-max)	20 gal/min - 28 gal/min	80 l/min - 105 l/min
Hydraulics working pressure (min-max)	2600 psi - 3335 psi	180 bar - 220 bar
Machine recommendation, operating weight	19 500 lbs - 55 000 lbs	8 500 kg - 30 000 kg

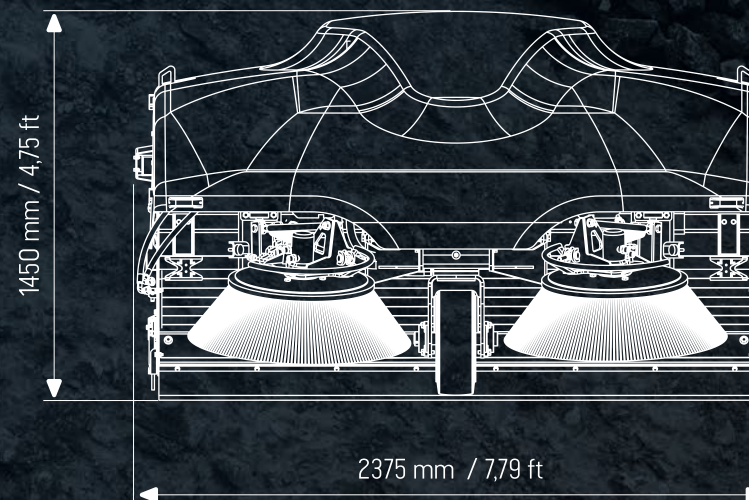
Hydraulic setting requirements: 1 extra hydraulic pair for attachments [3rd valve, pressure-return], 1 free return line to loader hydraulic reservoir tank [case drain line]. Constant 3rd valve functionality [hold-function, detent-function].

Quick coupler options: Volvo/Zettelmeyer, JRB 416, ACS Pro Series, CAT Fusion, CAT IT. Contact your dealer for other coupler options.



MATCH YOUR LOADER

BRAND	SUITABLE MODELS
CASE	521, 621, 721, 821, 921, 1021
CATERPILLAR	916, 918, 920, 924, 926, 928, 930, 936, 938, 950, 962, 966
JCB	413, 416, 417, 419, 426, 427, 435, 436, 437, 446, 456, 457
JOHN DEERE	344, 444, 524, 544, 624, 644, 724, 744
KOMATSU	WA180, WA200, WA250, WA270, WA300, WA320, WA380, WA420, WA 430
LIEBHERR	L524, L526, L528, L534, L538, L542, L544, L546, L550, L554, L564, L566, L574
VOLVO	L50, L60, L70, L90, L120, L150
OTHER	8500kg / 19 000 lbs - 30 000 kg / 70 000 lbs wheel loaders and telescopic loaders



Trombia sweepers are the frontrunners in street dust and silica dust sweeping (PM10 & PM2,5)

In May 2018 **Trombia sweepers** were granted 4-stars out of 4, in the globally recognised high end street sweeper test the EUnited PM Test. Trombia is the world's only sweeper attachment focused on waterless cleaning that meets the highest standard of requirements alongside with the premium caliber suction and regenerative sweepers and city street scrubbers!

The EUnited PM test has been the unquestionable European reference for the assessment of the fine particulate behaviour of road sweepers for several years. With the publication of DIN EN 15429-3 in May 2015, the EUnited PM Assessment became a recognized standard in Europe.

Fine particles have become a serious threat to the residents in many cities. Through the European Air Quality Directive 2008/50 / EC, cities and municipalities must ensure that emission limit values for fine particles are only exceeded on a limited number of days per year. Improving air quality has become a daily challenge for the local authorities and the use of sweepers to curb the amount of dust in public areas is common practice.

Waterless cleaning is the most efficient way to remove harmful dust emissions from the paved areas, streets and roads.

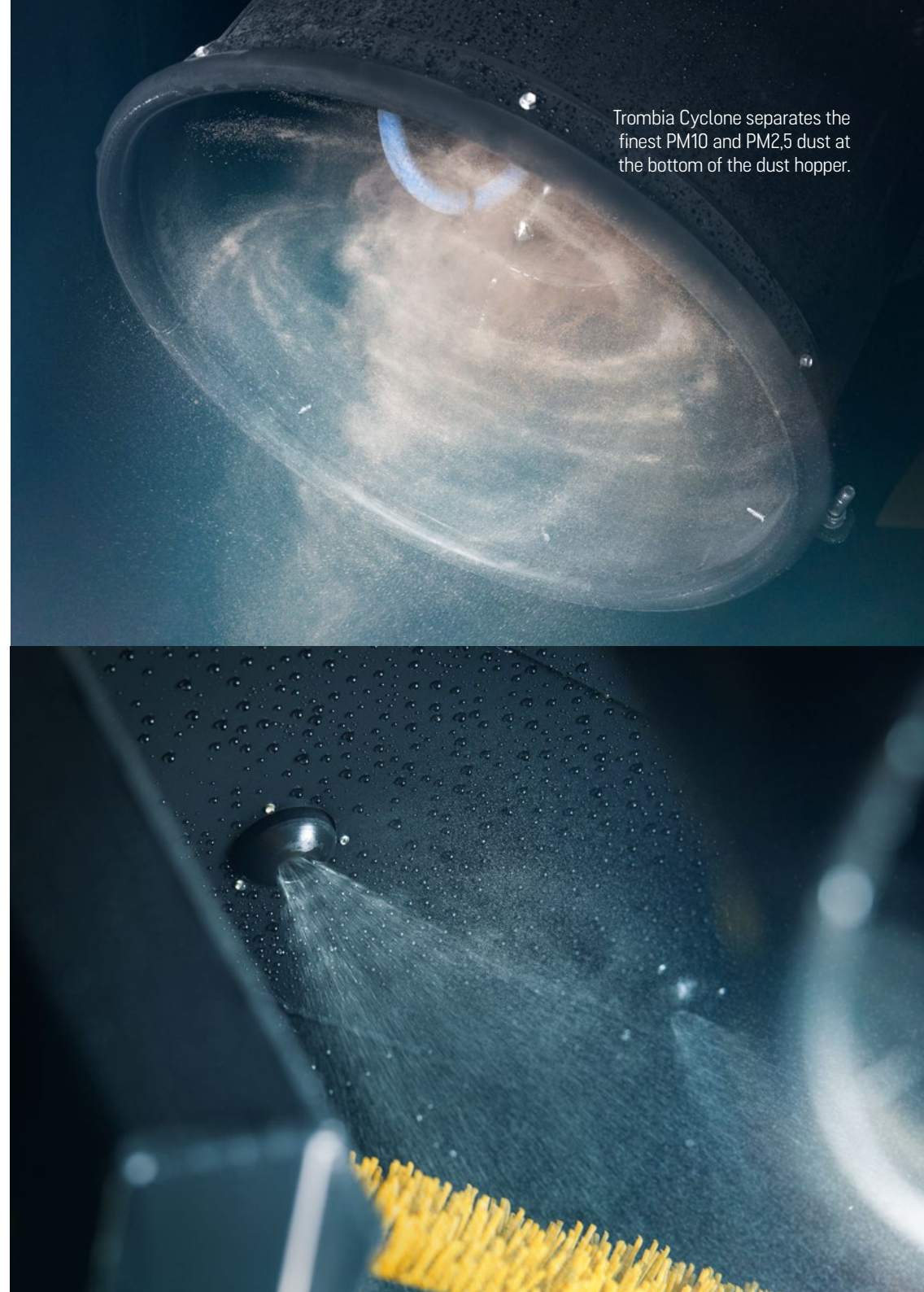
In extreme conditions Trombia Cyclone can be assisted with additional Trombia Extra Dust Control function.

To support the cyclone operations Trombia devices are equipped with an extra dust control functionality that can be activated from the touch screen when entering an extreme fine dust area, such as a construction site, or roads associated with construction dust. Extra dust control is based on tailor-made fine mist sprinkler system inside the dust hopper to manage excessive dust flow inside the cyclone, while the sweeping and airknife operations are kept waterless to deliver the superior cleaning result.

Expand your knowledge on PM10 and PM2,5 street dust sweeping literature under PM10 Knowledge base: www.trombia.com



Trombia Cyclone separates the finest PM10 and PM2,5 dust at the bottom of the dust hopper.





“We sweep 18 km of municipal roads with Trombia – mounted on our tool carrier that previously only ran in winter. Like the household vacuum cleaner, scaled up for the road sweeping.”

TIGNES MUNICIPALITY
French Alps, France



FIND YOUR DEALER
www.trombia.com



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