

# The new dimension to mobile ice maintenance



Catalogue  
Pinguino





# Catalogue Pinguino

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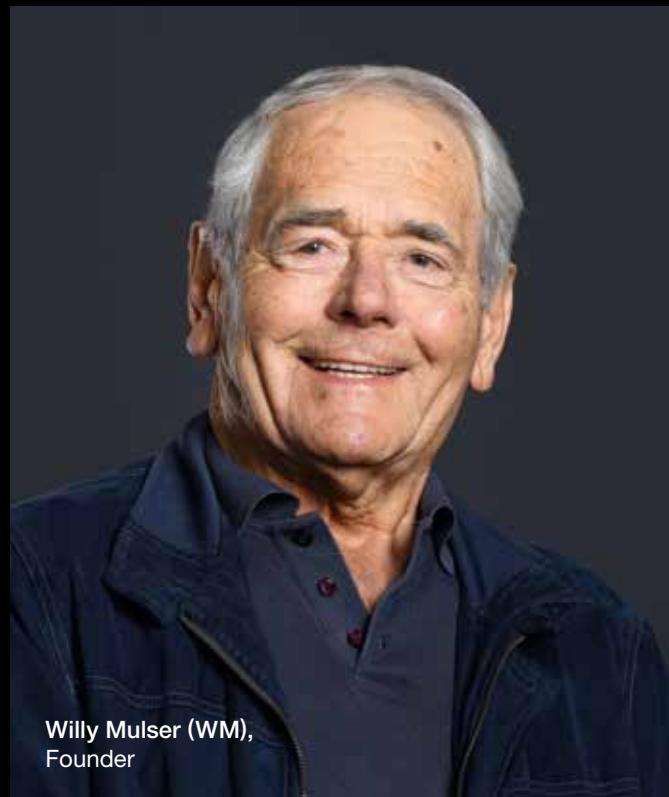
# COMPANY

Young, dynamic, and innovative:  
At WM technics, progress and  
customer satisfaction come first.

Established in 1986, WM technics crafts premium **ice resurfacing machines** suitable for every surface and requirement. Our state-of-the-art models stand out with their advanced technology, user-friendly operation, certified safety, and contemporary design.



Ice resurfacing machine **WM 2300**  
Year of construction 1986



**Willy Mulser (WM),**  
Founder

## Here's what we have to offer

Whether catering to professional ice needs within an arena or on a mobile rink, the distinction is minimal: WM technics consistently offers the optimal solution for any requirement. Owing to our relentless pursuit of product excellence, we pioneer cutting-edge standards and stand as a prominent leader in the worldwide market.

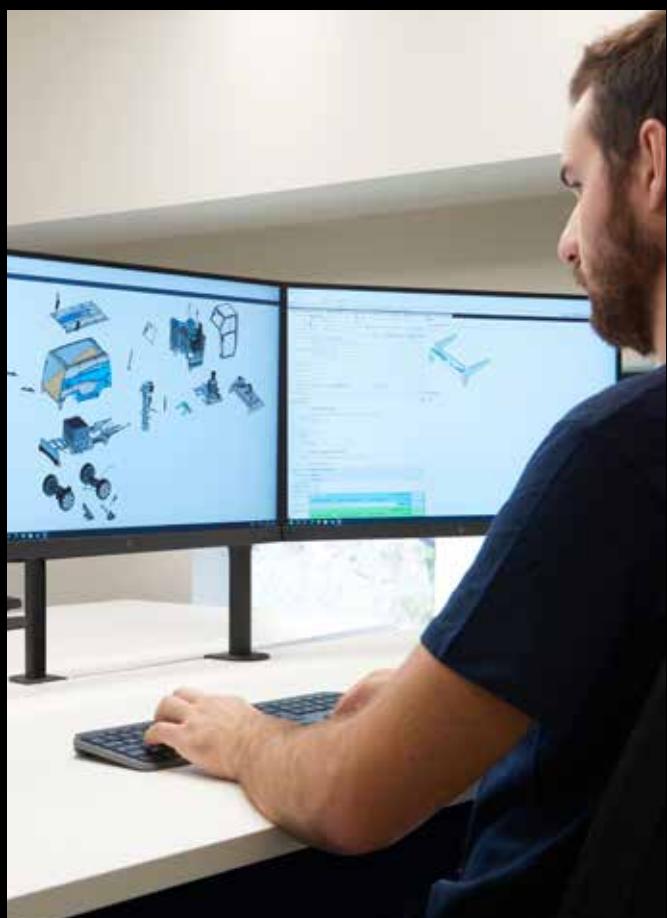
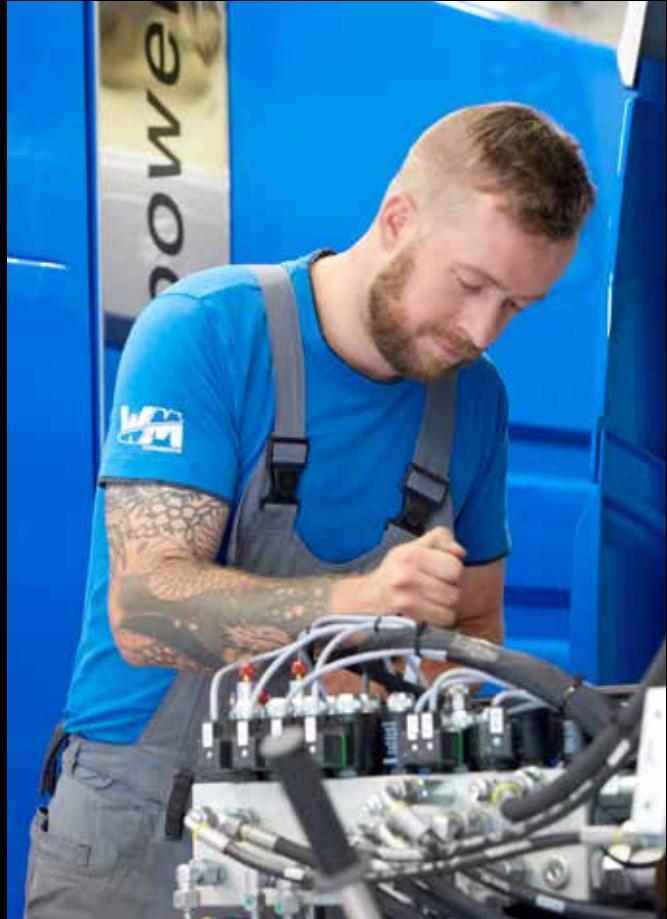
Powered by our robust digital infrastructure; design, parts production, and

the assembly of ice resurfacing machines are conducted at our South Tyrol-based facility (Italy).

In this manner, WM technics guarantees unparalleled quality, attending to every intricate detail. Custom setups built on customer specifications, reduced maintenance commitment, and steadfast assistance affirm WM technics as a powerful ally.



Marcel,  
Assembly Team



# WM plus



## Always Ahead of the Curve

With precision, we delve into research, trials, and systems. Our team's years of prowess in development, manufacturing, and setup culminate into a harmonious synergy.



## Safety at its Finest

Our cardinal rule: Prioritizing safety and well-being. WM technics' ice machines are designed with intuitiveness and uncompromised safety, meeting European machinery guidelines.



## Design with a Spark

WM technics brings to life trailblazing ice machines, always keeping the client and entire production lifecycle at heart.



## Precision Production

WM technics manufactures all its turning and milling components with utmost precision in its production department, only sourcing standard parts from reputable manufacturers. Each component is then customized in detail based on its function and crafted with the greatest care.



## Streamlined Assembly

WM technics champions the rapid production of ice machines, backed by rigorously organized processes. Every move is intricately mapped and transparent. Our commitment to precision minimizes the need for maintenance.



## 360-Degree Quality

WM technics designs and produces innovative ice resurfacing machines that meet all efficiency, reliability, longevity, and ease-of-use requirements. Series construction and in-house production also allow for the detailed tracking of all fabrication stages and utilized components.



## Sustainability with Vision

WM technics machines are designed to stand the test of time. We advocate for enduring products while keeping an eye on operational expenses. Balancing energy conservation, reduced consumption, and profitability doesn't deter us from delivering peak performance.



## Customer-Centric Assistance

Just as our machines care for the ice, we cherish our relationships with our customers: not only before the purchase but also during the commissioning and afterwards. We meet our clients' unique requirements even during the production process, tailoring our approach to their needs.



LITHIUM  
PETROL / GASOLINE

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# PINGUINO

Handy and easy to use: the new  
ice resurfacer by WM technics is here  
and ready to turn ice into perfect ice.

# The handy ice resurfacer for events and mobile rinks, ideal for ice surfaces up to 800 m<sup>2</sup> / 8,600 ft<sup>2</sup>.

Whether it's a sports event or an ice skating rink, you can easily keep your designated ice surface flawlessly maintained with Pinguino.

This innovative, compact ice resurfacer (measuring 3 meters in length and 2 meters in height / 10 ft length x 6.5 ft height) performs on par with larger professional machines: it efficiently planes the ice, ensuring perfect quality. Plus, its unique front seating position for the driver offers excellent visibility and a comfortably enjoyable driving experience.

Modern design, high quality, and easy maintenance – ice resurfacing for mobile rinks has never been this professional and comfortable!

	Snow tank volume	1 m <sup>3</sup> / compacted 1.25 m <sup>3</sup> 35.3 ft <sup>3</sup> / compacted 44.2 ft <sup>3</sup>
	Water tank volume	340 l 90 gal
	Blade width	1,400 mm 55 1/8 in
	Fields of operations	Event / Small ice rinks

“Agile, comfortable to use and outstanding ice resurfacing: With the Pinguino, we create the perfect ice conditions for our events!”

**Raphael Fink**  
Pond Hockey Championship  
(Italy)





## Safety and protective features

At WM technics, safety and health protection always come first. A thorough and independent inspection carried out by [Suva](#), the accredited and recognized Swiss certification body, confirms compliance with the European Directive 2006/42/EC, which regulates the level of protection against machinery-related accidents to ensure user safety.

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**suva**

CERTIFICATION

In compliance with Suva certification No. E 7164/2.e

Highlight

# Front seat

Ready, sit, go! On the Pinguino, the driver's seat is at the front, just like in a car, making operating the machine easier, **even for less experienced users.**

The front seating position ensures full vision, perfect peripheral vision, and ease of maneuvering, increasing safety for people, the machine, and the sports facility.



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**Full sight**

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**Comfortable sitting position**

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**Ease of maneuverability**

Highlight

# Blade replacement

Replacing the blade is **easy and quick**. There's no need to detach the conditioner. Just flip it upwards and remove the blade. Done!

You can quickly and safely replace the blade with just a few easy steps. You can change it effortlessly whenever needed, guaranteeing better ice quality throughout the season.



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**Quick & easy**

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**Maximum safety**

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**Constantly high ice quality**

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Highlight

# Replaceable runners

**Simple, quick, and safe.** The Pinguino's runners are made from a special material and can be replaced easily and in no time if damaged – minimizing downtime and ensuring reliable operation.

The material chosen for the runners makes them exceptionally smooth and reliable, protecting the ice surface from scratches or damage. It also adds an extra layer of safety for the sports facility: even if you forget to lift them when leaving the rink, neither the concrete nor the rubber mats will be damaged.



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**Simple & quick replacement**

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**Max. smoothness on ice**

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**Total protection of the rink**

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Highlight

# Perfect ice maintenance

The Pinguino might be compact, but it planes just like a big professional machine, **ensuring top-notch ice resurfacing** even on mobile rinks. Plus, the optional brush attachment guarantees clean edges.



Conditioner



Mechanical blade setting



Brush



Open snow tank

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340 liters / 90 gallons of water

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Enormous planing power

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Easy emptying

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Highlight

# Built-in charger

**Loaded and ready to go.** The charging station is built directly into the Pinguino, eliminating the need for bulky chargers in your garage—and putting an end to hauling cumbersome cables back and forth.

For charging, all you need is a standard, relatively thin 110-240 V cable – no special cables required. This also makes the machine easier to rent out: the charging station no longer needs to be packaged and shipped separately, greatly simplifying both logistics and handling.



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**Charging with standard cable**

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**Greater durability & safety**

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**Perfect for rental use**

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Highlight

# Lighting

Efficient lighting for the **best visibility**. The combination of LED lights and powerful headlights always ensures optimal visibility.



Front lighting



Side work light



Flashing warning light



Rear lighting

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**Energy efficiency**

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**Perfectly integrated headlights**

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**Excellent visibility**

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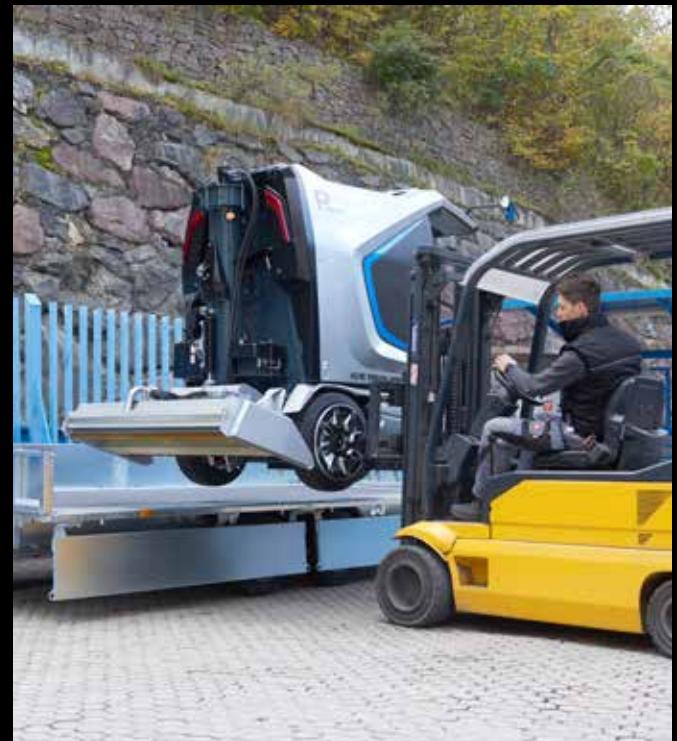
Highlight

# Ease of transport

On to your next event? The **low-weight** Pinguino is fitted with lifting pockets for ease of transportation by forklift or trailer.



Retractable driver's seat (2 positions)



Lifting pockets for forklifts

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**Ease of transport**

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**Space saving**

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**Reduced weight**

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Highlight

# Easy handling

The Pinguino excels due to its **easy handling**. Its intuitive design and simple controls make it accessible to anyone, even those who have never driven anything similar.

Keep your ice surface in perfect condition and ensure safety for all activities. The Pinguino ensures optimal results.



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**Mobile ice rinks & frozen lakes**

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**Training facilities**

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**Occasional sports events**

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Highlight

# Ease of maintenance

All machine parts are easily accessible without needing to dismantle any components, making **maintenance quick, simple, and cost-effective** while minimizing operational costs.



Tilttable seat



Easily accessible engine compartment



Good sight: Hydraulic oil level indicator



Easy maintenance service

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**Easily accessible engine compartment**

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**Low maintenance costs**

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**Faster maintenance service**

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# TECHNOLOGY

Explore the Pinguino's standard features and numerous optional extras. We are also happy to customize the Pinguino to meet your needs.



# Lithium

## Technical specifications

Motor	Asynchronous motor
Drive power	10 kW
Battery Lithium	BlueLi 80V – 230Ah
Charger Power	3 kW
Battery charger connection	100-240 VAC / 50-60 Hz
Autonomy	approx. 2h 40 min.
Charging time for 80%	approx. 4h 20 min.
Weight when empty	1,230 kg (basic outfit) 2,690 lbs
Water tank	340 l 90 gal
Snow tank	1 m <sup>3</sup> / compacted 1.25 m <sup>3</sup> 35.3 ft <sup>3</sup> / compacted 44.2 ft <sup>3</sup>
Transmission	Continuously adjustable hydraulic four-wheel drive
Axes	Single wheel drive
Steering	Hydraulic
Footbrake	Hydraulic
Parking brake	Mechanical parking brake on rear wheels
Hydraulic system	18 cm <sup>3</sup> axial piston pump for drive, 6 cm <sup>3</sup> work units + cylinder movements, 4.4 cm <sup>3</sup> steering
Diameter of screw conveyors	vertically ø 175 mm 6.9 in horizontally ø 170 mm 6.7 in
Tyres	5.00R12 83/81P 2 rows of spikes
Wheel rims	12" x 5" with hubcaps

## Standard equipment

All-wheel drive
Parking brakes
2 board guide rollers
Water tank-snowbin made of stainless steel
Spring suspended drivers seat
Horn
Easily accessible engine compartment (tiltable driver's seat, hydraulically tiltable snowtank)
Hydraulic power steering
2 hydraulically powered screw conveyors
Hydraulic carriage pressure system
Hydraulic opening and closing of snow bin cover
Manual blade adjustment
Tilttable planing device / conditioner for easy, safe blade changing
Tilttable operator's platform (2 positions)
1 blade
1 towel
Scope of delivery set



In conformity with Suva no. E 7164/2.e type-examination certificates



# Petrol / Gasoline

## Technical specifications

Engine	Honda GX690RH, 2 cylinder 688 cm <sup>3</sup>
Power	16.5 kW / 22.1 HP PS - 3,600 rpm
Weight when empty	1,100 kg (basic outfit) 2,425 lbs
Water tank	340 l 90 gal
Snow tank	1 m <sup>3</sup> / compacted 1.25 m <sup>3</sup> 35.3 ft <sup>3</sup> / compacted 44.2 ft <sup>3</sup>
Fuel tank	15 l 4 gal
Transmission	Continuously adjustable hydraulic four-wheel drive
Axles	Single wheel drive
Steering	Hydraulic
Footbrake	Hydraulic
Parking brake	Mechanical parking brake on rear wheels
Hydraulic system	18 cm <sup>3</sup> axial piston pump for drive, 6 cm <sup>3</sup> work units + cylinder movements, 4.4 cm <sup>3</sup> steering
Diameter of screw conveyors	vertically ø 175 mm 6.9 in horizontally ø 170 mm 6.7 in
Tyres	5.00R12 83/81P 2 rows of spikes
Wheel rims	12" x 5" with hubcaps

## Standard equipment

All-wheel drive
Parking brakes
2 board guide rollers
Water tank-snowbin made of stainless steel
Spring suspended drivers seat
Horn
Easily accessible engine compartment (tiltable driver's seat, hydraulically tiltable snow tank)
Hydraulic power steering
2 hydraulically powered screw conveyors
Hydraulic carriage pressure system
Hydraulic opening and closing of snow bin cover
Manual blade adjustment
Tilttable planing device / conditioner for easy, safe blade changing
Tilttable operator's platform (2 positions)
1 blade
1 towel
Scope of delivery set



In conformity with Suva no. E 7164/2.e type-examination certificates



# Scope of delivery



1 blade in  
transport sheath



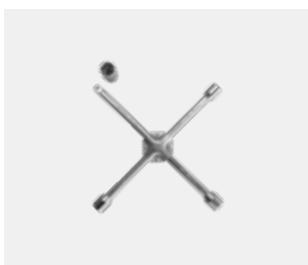
Towel felt



2 rubber mats



6 mm hex socket  
T wrench



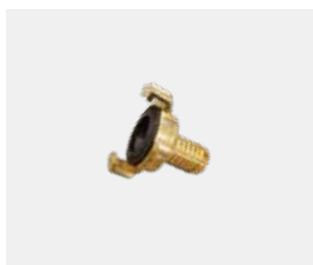
Cross-key with nut



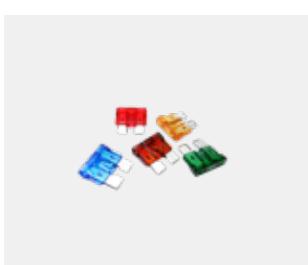
Laceration-proof  
safety gloves



Grindstone



Water connector



Fuse set



Set ABS  
fastening material



Safety and  
Lifting bar



Charging Cable  
*Lithium*

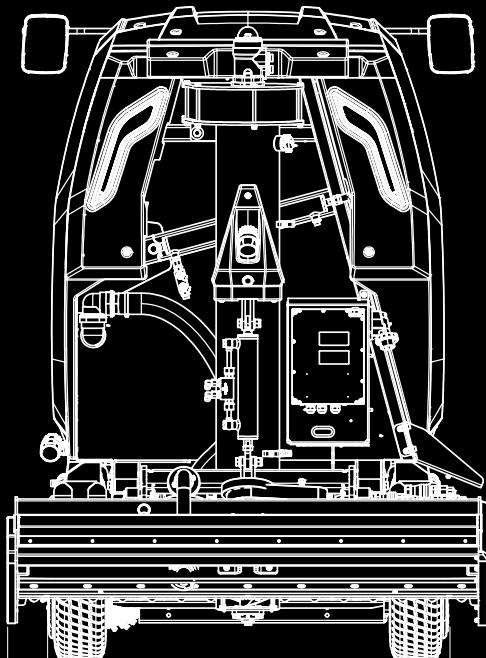
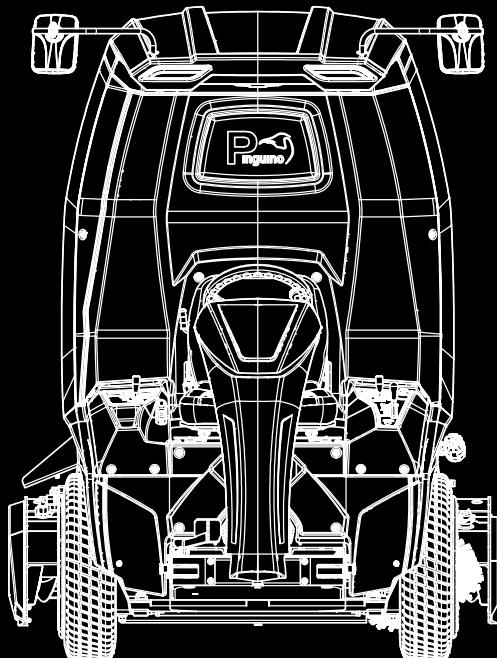


Instruction  
manual

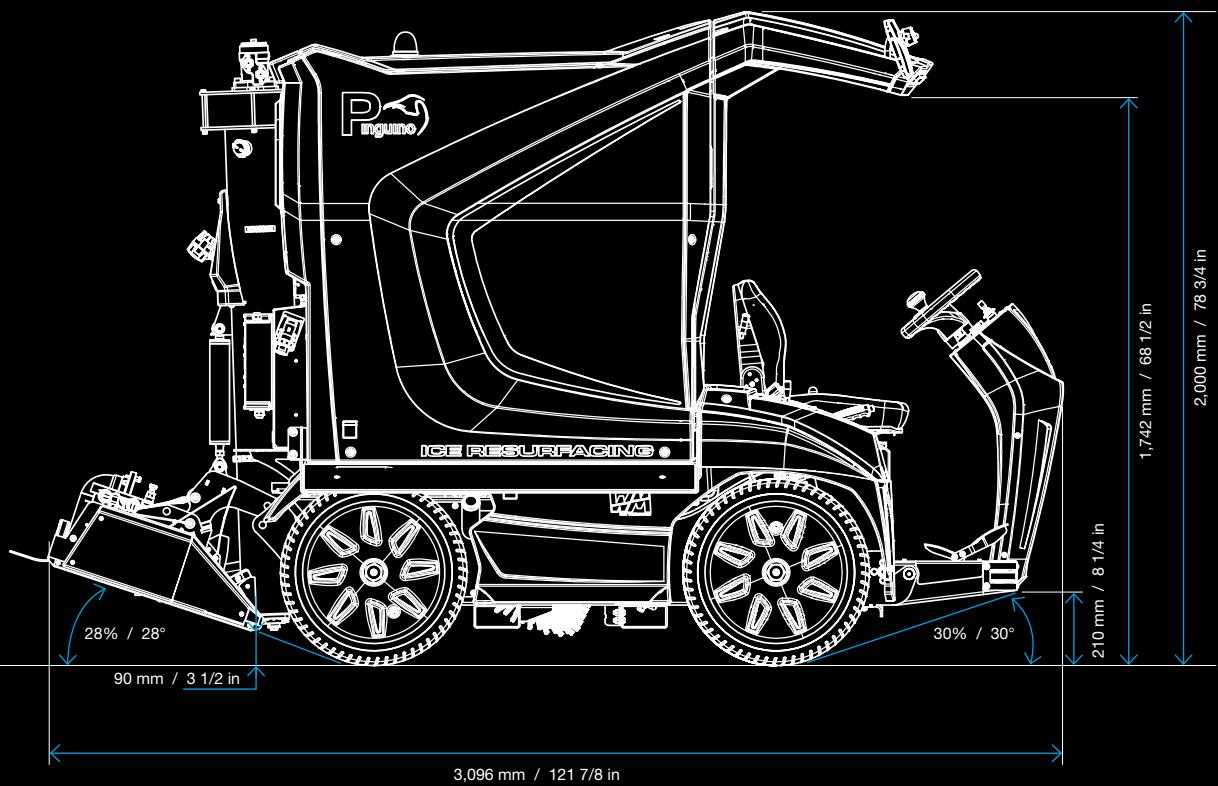


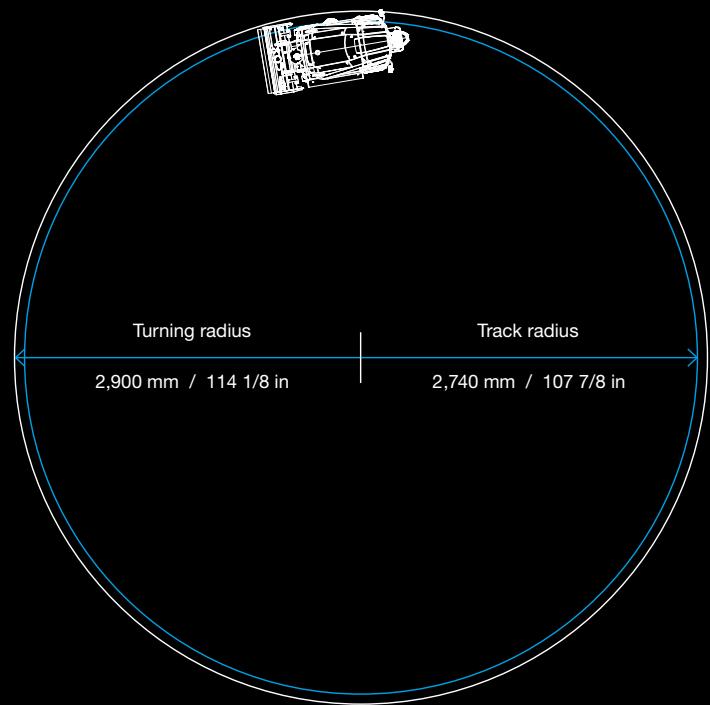
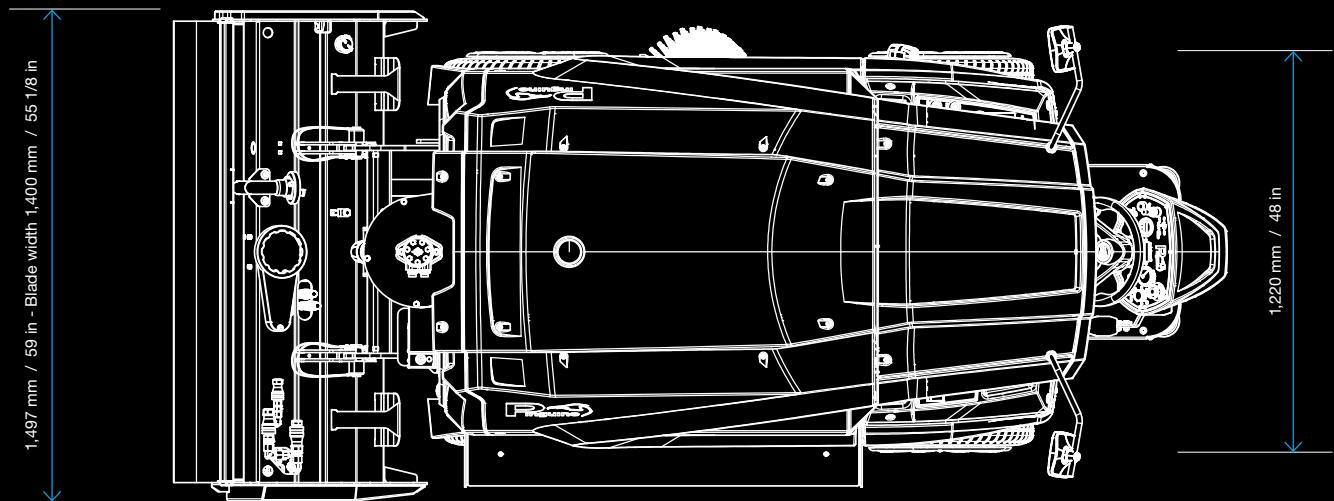
Online spare  
parts catalogue

# Dimensions



1,025 mm / 40 1/4 in  
1,220 mm / 48 in  
1,497 mm / 59 in





## Optional



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## Wash system



Screw conveyor  
wash system  
vertical



Screw conveyor  
wash system  
horizontal

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## Dasher board processing



Brush

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## Overview and security



Side mirrors



Rear-view camera



Protective guard for  
board guide rollers

## Comfort



Hydraulic blade adjustment



Slide extension



Water tank signage



Conveyor screw overload warning system



Acquastop valve with time relay

## Lighting



Front and working lights (side, rear)



Flashing warning light

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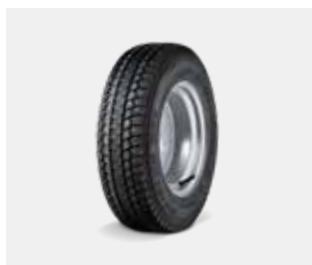
## Personalization



Custom wrap  
4c digital print

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## Service



Spare tyre 12"



Diagnostic cable

43\_45

# STRENGTHS

WM technics - Excellence in design and quality. In-house manufactured machines. Easy maintenance. Quick access to spare parts. Your guarantee for the highest standards.

At WM technics, we strive for excellence at every stage of our work. Our machines are the result of high-quality components and meticulous design that minimizes maintenance effort. Designed, manufactured, and assembled in our own facilities, we guarantee top quality and timely deliveries. From component to the finished product - every step is closely monitored to deliver to you **the ice resurfacing machines of the future.**

## User friendliness



Through the use of top-quality components together with a well-planned design, maintenance work is extremely simple and is reduced to a minimum.

## Quality guarantee



Our products are developed, manufactured, and assembled in-house at our facilities. This is the only way we can guarantee the best quality and punctual delivery times.

## The right replacement part, every time



Order your spare parts easily and conveniently from our online portal: Our series number and digital image system enable you to find the part you need with just one click.

## Series production



All WM technics vehicles are series-manufactured. We know exactly which parts have been used in each series run, and can deliver the correct spare parts to you at all times. At the same time, a number of optionals can be retrofitted with minimum effort and maximum precision, even years later.

## Service and support



Our well-networked, international team of technicians undergo constant training and will be delighted to help you whenever you require assistance.

## Quality consciousness



From the manufacture of individual parts right through to the final quality-control inspection: Every step of the process is carried out and monitored with the utmost precision. Each and every member of our staff is well-trained in his specialist field, and carries out all tasks conscientiously. This is a great advantage for our customers, who can be sure of receiving a technologically sophisticated product which has been manufactured to the very highest quality standards.

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# PRODUCTS

Dive into the world of WM technics:  
Where cutting-edge design meets  
top-notch quality. Here begins the  
journey to top-tier ice resurfacing  
machines and #perfectice.

# Mammoth

An autonomous and innovative ice resurfacing machine, ideal for stadiums and large ice surfaces up to 2,600 m<sup>2</sup> / 28,000 ft<sup>2</sup>.

Maintenance-free AC motors, generous tank volumes, and the quick-change blade system ensure fast and efficient ice preparation. The compact design and frame-mounted edger provide maximum stability and exceptional maneuverability.



	Snow tank volume	3 m <sup>3</sup> / compacted 3.6 m <sup>3</sup> 106 ft <sup>3</sup> / compacted 127 ft <sup>3</sup>
	Water tank volume	1,000 l / 1,350 l / 1,750 l 264 gal / 356 gal / 462 gal + snow tank-water tank connection 2,000 l / 2,350 l / 2,750 l 528 gal / 620 gal / 726 gal
	Blade width	2,100 mm / 2,300 mm / 2,500 mm 82 5/8 in / 90 1/2 in / 98 1/2 in Blade change < 60 seconds
	Fields of operation	Pro / Ice stadiums

# Shira

The machine adapts perfectly to every ice resurfacing requirement in stadiums with ice surfaces up to 2,600 m<sup>2</sup> / 28,000 ft<sup>2</sup>.

It runs electrically and operates almost silently. The intuitive control via keyboard, display, and automatic mode enables particularly easy operation and maintenance. Thanks to excellent accessibility for manual interventions, it ensures noticeable cost savings and impresses with an outstanding price-performance ratio.



	Snow tank volume	3 m <sup>3</sup> / compacted 3.6 m <sup>3</sup> 106 ft <sup>3</sup> / compacted 127 ft <sup>3</sup>
	Water tank volume	1,000 l / 1,350 l / 1,750 l 264 gal / 356 gal / 462 gal + snow tank-water tank connection 2,000 l / 2,350 l / 2,750 l 528 gal / 620 gal / 726 gal
	Blade width	2,100 mm / 2,300 mm 82 5/8 in / 90 1/2 in
	Fields of operation	Pro / Ice stadiums

# evo<sup>2</sup>

The powerful ice resurfacing machine for intensive operations on large ice rinks and in stadiums – ideal for ice surfaces from 4,200 m<sup>2</sup> / 45,200 ft<sup>2</sup>.

The generously combinable snow and water tank volume offers maximum flexibility, while diesel, gasoline, or electric motors provide the drive as needed.

The very fast blade change system, excellent overview of all operating functions, and automatic mode significantly facilitate handling. Thanks to quick access to the engine compartment, maintenance is also particularly fast and cost-efficient.



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	Snow tank volume	4.1 m <sup>3</sup> / compacted 5.1 m <sup>3</sup> 145 ft <sup>3</sup> / compacted 180 ft <sup>3</sup>
	Water tank volume	1,200 l / 1,400 l / 2,000 l 317 gal / 370 gal / 528 gal + snow tank-water tank connection 2,550 l / 2,750 l 674 gal / 726 gal
	Blade width	2,300 mm / 2,500 mm 90 1/2 in / 98 1/2 in Blade change < 60 seconds
	Fields of operation	Pro / Ice stadiums

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## Compact

The compact ice resurfacing machine was specifically designed for small ice surfaces and rinks up to 1,200 m<sup>2</sup> / 12,900 ft<sup>2</sup>.

It is robust, easy to operate, and delivers shaving results like a large professional model. Thanks to its high maneuverability, it offers the driver first-class comfort and guarantees professional ice preparation – even on mobile ice rinks, it ensures ice quality at the highest level.



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	Snow tank volume	1.8 m <sup>3</sup> / compacted 2.25 m <sup>3</sup> 63.6 ft <sup>3</sup> / compacted 79.5 ft <sup>3</sup>
	Water tank volume	600 l 158 gal
	Blade width	1,700 mm 66 7/8 in
	Fields of operation	Event / Small ice rinks

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# Pinguino

The compact revolution among ice resurfacing machines: Thanks to its small dimensions, it moves with extreme agility and delivers precise, high-quality ice preparation for events and mobile ice rinks up to 800 m<sup>2</sup> / 8,600 ft<sup>2</sup>.

It offers the performance of large professional machines – shaves the ice efficiently and ensures perfect ice quality at all times. The unique forward seating position provides the driver with excellent visibility and high driving comfort.



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	<b>Snow tank volume</b>	1 m <sup>3</sup> / compacted 1.25 m <sup>3</sup> 35.3 ft <sup>3</sup> / compacted 44.2 ft <sup>3</sup>
	<b>Water tank volume</b>	340 l 90 gal
	<b>Blade width</b>	1,400 mm 55 1/8 in
	<b>Fields of operation</b>	Event / Small ice rinks

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# Snip

The electrically operated, manually guided edger makes ice maintenance considerably easier.

Whether mobile ice rinks or large arenas – it combines a compact design with modern, emission-free technology. Its most innovative feature is the quick, tool-free switching between two operating modes: lateral milling along the boards and frontal milling to remove ice build-up and unevenness. With an integrated drive, adjustable speed, and certified safety, it is a versatile and precise tool for maintaining any ice surface.



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	<b>Electric engine</b>	24V / 130Ah (powered by a FAAM TRALEG battery)
	<b>Blade width</b>	Ø 350 mm Ø 13.8 in
	<b>Fields of operation</b>	Event / Ice stadiums

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