

# THE ICE MASTER INNOVATION





Product sheet  
Mammoth



# MAMMOTH

WM's powerful ice resurfacers for stadiums is suitable for ice surfaces of **1,800 m<sup>2</sup> / 20,000 ft<sup>2</sup>**.

When it comes to flawless **resurfacing** of stadium rinks, the WM Mammoth has it all: High-performing, maintenance free AC motors, large snow and water tank capacity and a quick blade-change system. With its compact build, the machine has an extremely tight turn radius, which means that the ice can be resurfaced quickly, efficiently and without overlaps. Technically sophisticated, user-friendly and with numerous extras: WM Mammoth is the champion of professional ice resurfacing of rinks of 1,800 m<sup>2</sup> / 20,000 ft<sup>2</sup>).

	<b>Snow tank volume</b>	3 m <sup>3</sup> / compacted 3.6 m <sup>3</sup> 106 ft <sup>3</sup> / compacted 130.7 ft <sup>3</sup>
	<b>Water tank volume</b>	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
	<b>Blade width</b>	2,100 mm / 2,300 mm / 2,500 mm    82 5/8 in / 90 1/2 in / 98 7/16 in Blade change < 60 seconds
	<b>Fields of operations</b>	Pro / Heavy duty

“The WM Mammoth has met all of my expectations: It guarantees flawless ice quality, is 100% reliable and working with it is a joy!”

**Sascha Koullen - Ice Master**  
LANXESS arena in Cologne  
(Germany)





## Award-winning Italian Industrial Design

A special accolade for WM technics: Our Mammoth has been featured in the [ADI Design Index 2016](#), an annual publication spotlighting distinguished products, projects, and services in industrial design. The ADI (Association for Industrial Design) strives to promote and showcase both Italian and international industrial design.

With a membership base spanning over 1,200 individuals from diverse sectors, the association views industrial design as a significant cultural and economic force.

**ADI DESIGN  
INDEX 2016**

Award-winning Italian  
Industry design

## Safety and Protective Features

WM technics prioritizes safety and health above all. An exhaustive and independent evaluation conducted by [Suva](#), an accredited and recognized Swiss certification agency, confirms compliance with the provisions of the European Directive 2006/42/EC, which governs the protection against machinery accidents.

**suva**  
CERTIFICATION

In compliance with Suva certification  
No. E 7138/2.e

# TECHNOLOGY

The Mammoth **redefines benchmarks** in ice resurfacing: State-of-the-art design converges with precision-engineered tech, optimized for unmatched performance on ice. Autonomously or manually driven, wholly electric, and eco-friendly. Dive deep into our electrifying revolution.



The Mammoth impresses with its blend of elegance and resilience: Its tail end, exquisitely shaped from a rust-resistant, lightweight alloy, guarantees a harmonious weight balance and energetic, cost-effective movement. Perfect weight allocation between the anterior and posterior axles, coupled with a lowered center of mass, promises superb turns on icy terrain.

When raising the hydraulic canopy, an organized motor bay unveils itself. Centrally located, the vibration-dampening hydraulic oil reservoir equipped with a built-in electric motor that varies its rotation speed based on requirements, ensuring a quiet performance. All electric valves are neatly assembled on the left in a custom-built hydraulic unit.

On the right side, the motor bay shelters water-resistant electronics adhering to contemporary off-highway norms.

# Technical Specifications

## Mammoth

Motor	5 asynchronous motors Optional 6 asynchronous motors
Power rating	29 kW (31 kW)
Water tank	1,000 l 264 gal / Optional: 1,350 l 356 gal / 1,750 l 462 gal
Snow tank	3 m <sup>3</sup> 106 ft <sup>3</sup> - compacted 3.6 m <sup>3</sup> 130.7 ft <sup>3</sup>
Transmission	Continuously adjustable electric all-wheel drive
Speed	0 - 13 km/h 0 - 8 mph
Tyres	225 / 75 / R16C with 6 rows of spikes
Wheel rims	9" x 16" with hubcaps



## Standard model

### Machine

PLC control
Easily accessible engine compartment (tiltable) with cap support
Hydraulic oil tank: 50 l / 13 gal
Maintenance-free asynchronous motors
Service brake with hydraulic brake force booster
Hydraulic negative parking brake
Snow bin & water tank connection (> 2,000 litres / > 528 gal)
Electrical snowbin inspection hatch
Coated snow bin
Snow bin headlight, side headlight
Water tank made of PE
Function for automatic water filling system with immobilizer (Acquastop valve as optional)
Hydraulically driven and swivelling side brush made of stainless steel
Board guide pulley
Side mirror, rear
Led daytime running light
Flashing warning light
Acoustic signal for reverse drive, snow bin cover operation, reverse of the screw conveyors and blade exchange

### Cockpit

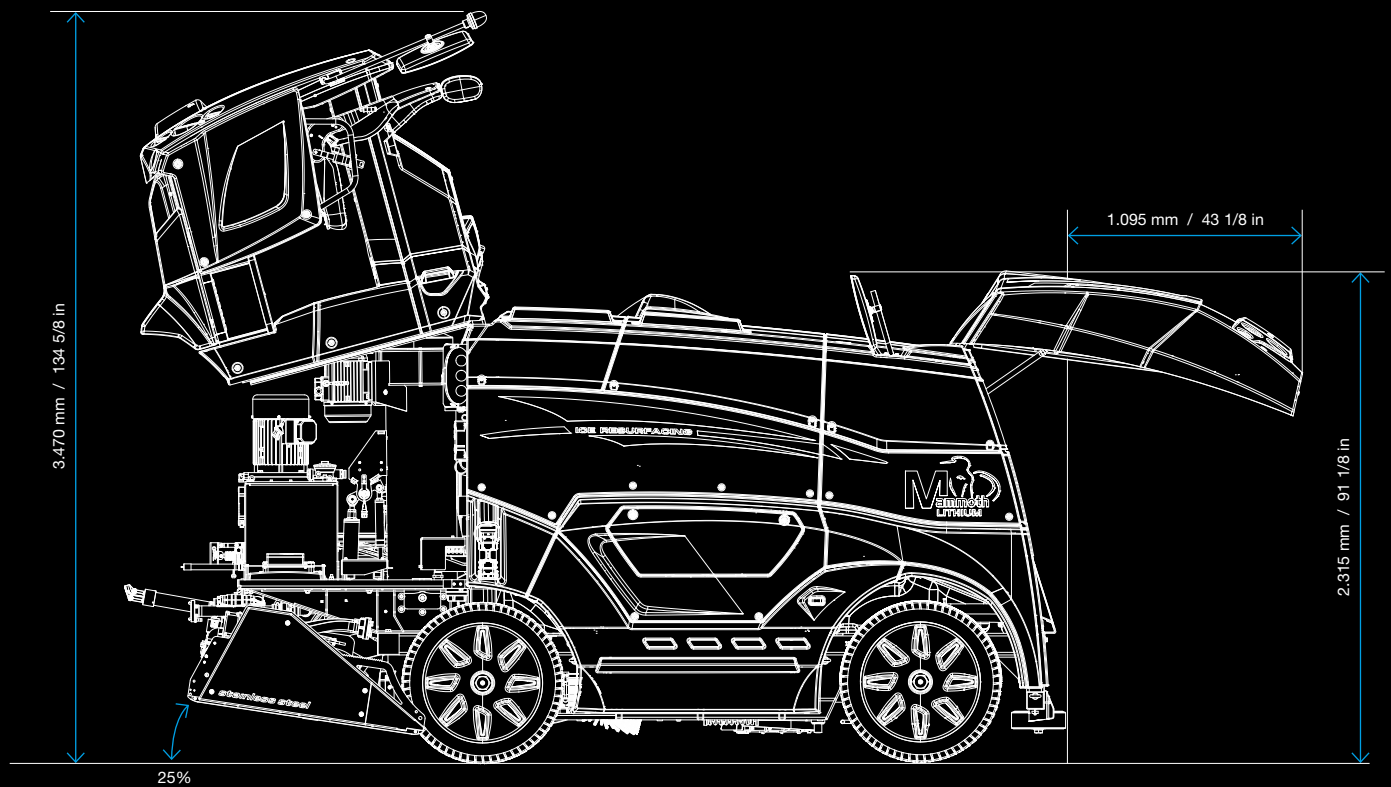
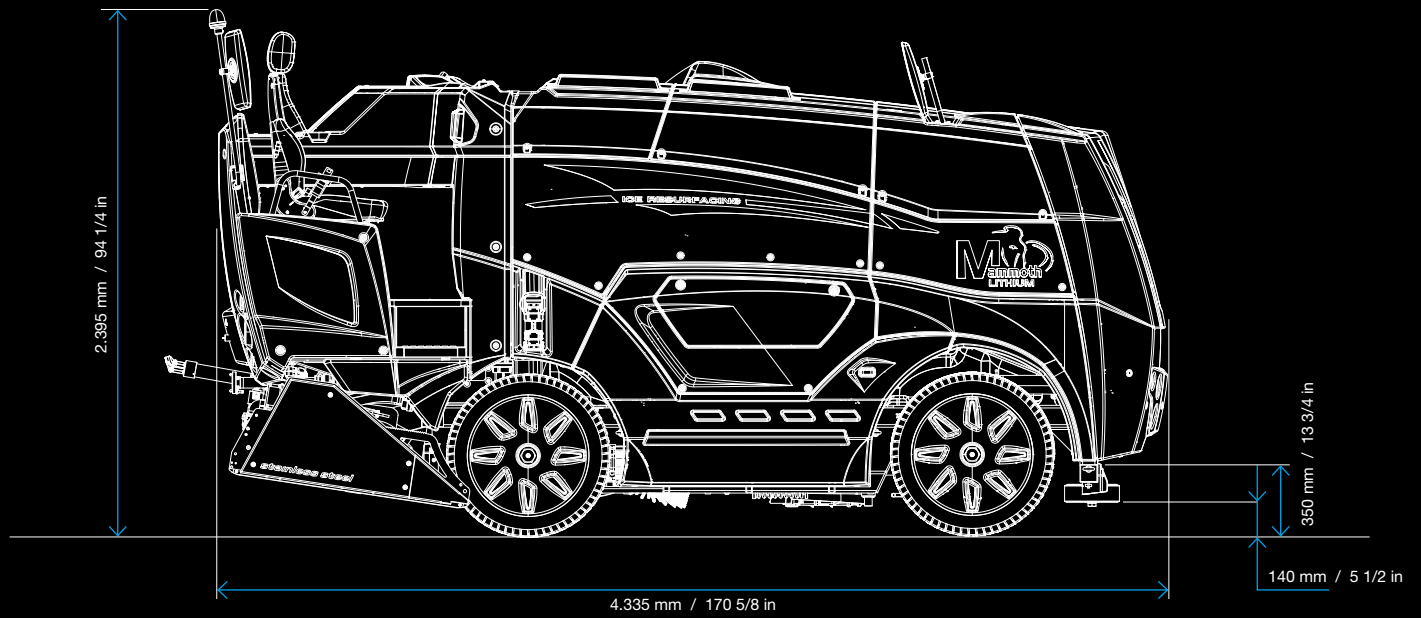
Spring-suspended and height-adjustable driver's seat (fabric) with armrests
Spring suspended passenger seat
Dual Screen - 2 high-resolution 7" touchscreens
Ergonomic multi-function joystick with 9 control buttons, three rotary controllers and travel direction switch
Freely assignable button on joystick can be programmed by the operator to facilitate access to a frequently used function
Button for automatic modus: operations start automatically in a fixed order

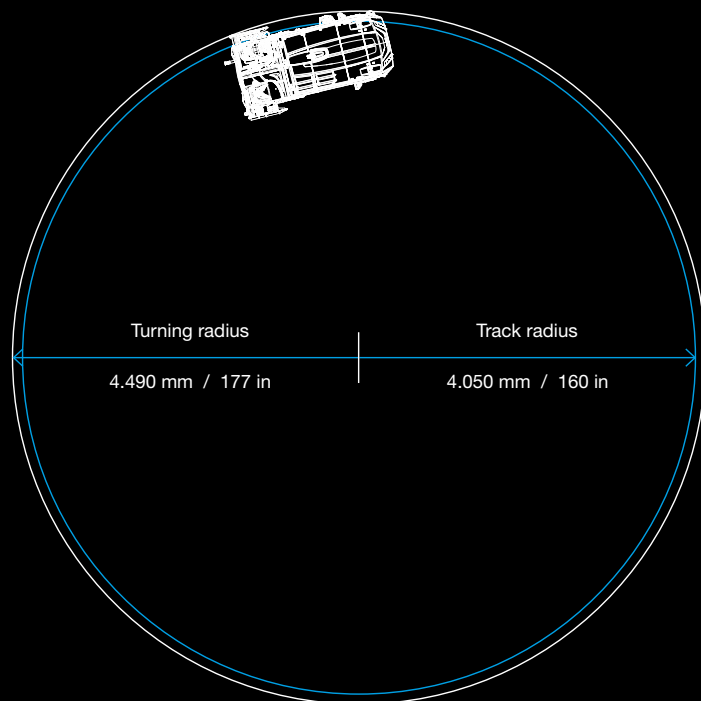
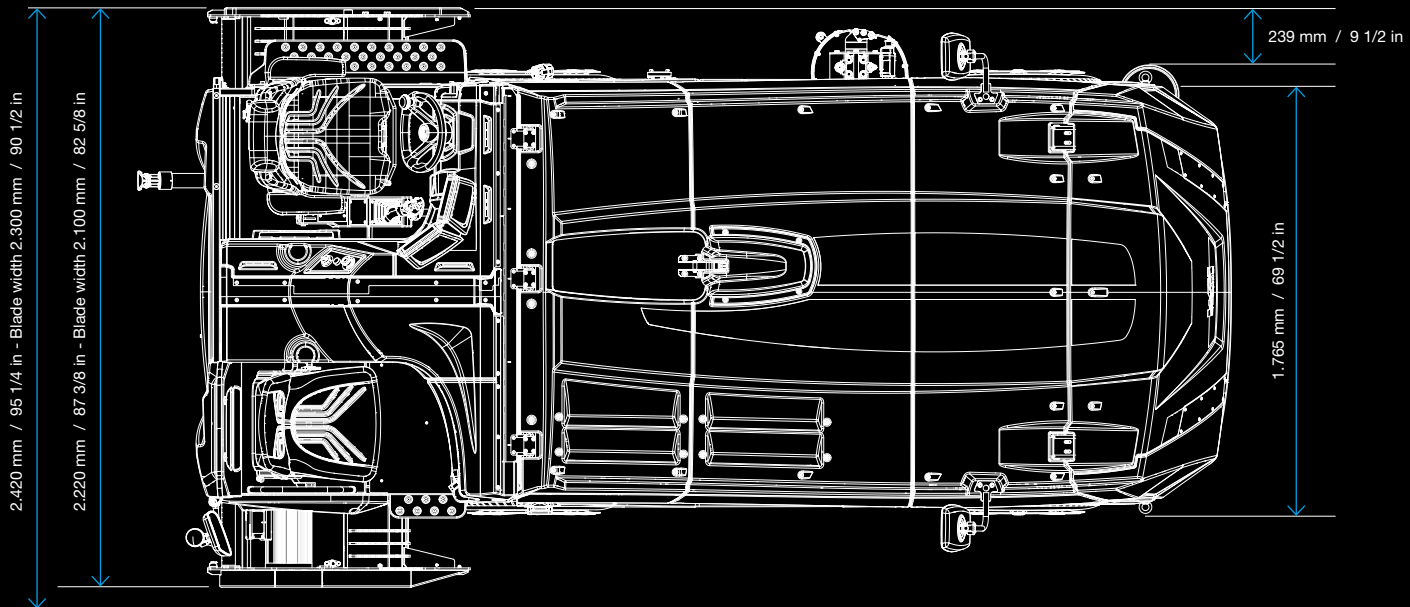
### Planing system

Planing system made of stainless steel
Constant grinding pressure planing system
System for water dosing in curves
Quick-Change-System for a fast blade replacement (< 60 seconds)
2 blades in wooden transport box (super-light blade - 3.5 kg / 6.6 lbs)
2 towels



# Dimensions





# THE ICE MASTER INNOVATION

Shake things up with Mammoth – our cutting-edge self-driving machine that **crafts the ice just right.**





With Autopilot 3D, WM technics is redefining ice maintenance: A system that cares for the ice fully autonomously and keeps the ice thickness automatically within the ideal range - a dream come true for ice professionals. This groundbreaking system not only finely tunes the ice surface but also plays a significant role in energy efficiency. Indeed, the thickness of the ice impacts energy consumption: every additional inch of ice leads to up

to 15% more cooling needs. Autopilot 3D seamlessly blends technology with sustainability, merging top-tier performance with an eco-friendly approach. This revolutionary feature is exclusively found in the Mammoth machine.



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Desired ice thickness guaranteed

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Max. energy efficiency

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Flexible work management

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Optimized service expenses

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