MES

MES MAGTRACK

The New Standard in Robotic Blasting.

For more details, please reach out to MES directly at mes.us or 888.281.2643.

THE NEWEST INNOVATION IN THE SURFACE PREPARATION INDUSTRY

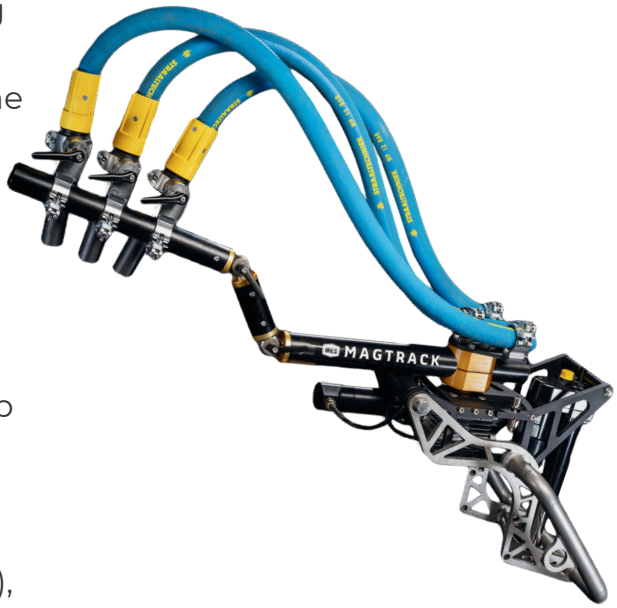
A magnetic, electrically driven crawler with the ability to remove corrosion, paint, and other contaminants to your desired profile. Easy to adjust in height, angle, and pitch to get the perfect blast for your project **EVERY SINGLE TIME!**

MES CARRIAGE

The MagTrack carriage is the base for many different solutions. Operation is safe and easy and can be done by one man. The carriage can be set up with your desired tool in 30 minutes. The remote control ensures that the operator stays on the ground and out of the line of fire! No more need for scaffolding or cherry pickers.

BLAST SWING ARM

The MES MagTrack Blast Arm is used for sandblasting and can hold up to QTY 3 #10 Blast Nozzles. Once at your job site, this unit can go from crate to blasting the surface within 30 minutes.



The automatic four wheel drive is controlled by the wireless remote (with over 100' range) or from the control panel. You have the ability to adjust virtually any part of this robot at your fingertips. Adjust the swing speed, drive speed, automation speed, and step size all with a few clicks.

This unit is perfect for almost any surface preparation job but excels on storage tanks (internal and external), ship hulls, non-skid decks, penstocks, and more!

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WHY THE MES MAGTRACK IS SUPERIOR

MES Magtrack has Four-Wheel Drive Steering

- The unit has zero turn capabilities with significantly improved driving capabilities when going over weld seams and obstacles on the substrate.
- Allows unit to work efficiently and easily on a vertical and horizontal blast path.

MES Magtrack has an Articulating Chassis

- Allows unit to maintain 4 contact points while driving over weld seams and other obstacles.
- Reduces unit sliding or slipping.

MES Magtrack has Dual Magnets

- Positioned on the front and rear of the chassis, compared to a singular magnet, these magnets provide superior adhesion to the substrate.
- With a 60% higher magnet capacity than its competition, dual magnets enhance retention on the substrate, boosting driving capabilities and operational safety.
- Magnets are adjustable to accommodate different substrate thicknesses and weld seam height to prevent stalls, sticking, or detachment.

Blast Arm Tilt Actuator

- A tilt actuator for “on-the-fly” adjustments, enabling seamless control during operation.
- “On-the-fly” adjustment capabilities offer enhanced flexibility, and precise positioning of the nozzles (closer or farther away from the substrate) to achieve the desired blasting.
- Easily controlled via a remote controller, the tilt actuator enables real-time adjustments without interrupting work to reposition the unit manually.

Automated Driving and Blasting Capabilities

- Unit offers customizable preset settings for advancement distances and swing speeds, all adjustable via the controller, allowing for precise automation of the blasting process.
- Eliminating the need for manual control of every movement minimizes the risk of user error during blasting operations.
- All presets can be configured and fine-tuned in real-time using the controller and activated or deactivated with a single switch.
- In addition to automated swinging blast paths, the unit can be manually driven to blast weld seams, hull numbers, and more, offering versatility and ease of operation.

Heavy-duty Exoskeleton

- This unit features a robust HD exoskeleton designed to safeguard against potential damage while offering four tie-off points at each corner of the chassis.
- Exoskeleton can be easily detached to access serviceable components within.

FEATURES:

- Use 1, 2, or 3 nozzles - Your Choice! Four Wheel Drive Capable of blasting up to 600ft2
- per hour on normal 15-20 mil paint Capable of blasting 1000+ ft2 per hour on < 5 mil
- paint
- Capable of blasting at any angle, even upside down
- Multiple magnets to easily conquer all types of weld seams
- Can use up to 3 #10 nozzles simultaneously for maximum performance
- Can utilize any blast hose and nozzle size and angle combination
- Two joints for height and angle adjustments of the nozzles
- Fully adjustable nozzle holders
- Full automation capabilities

ABRASIVE BLASTING & UHP

WITH THE SAME ROBOT

SIMPLY SWAP ATTACHMENTS

MAGTRACK CARRIAGE

The foundation can be fitted with a full range of modular tools

BLAST SWING ARM

For abrasive blasting use 1, 2 or 3 nozzles

TILT SWING ARM

For open water blasting & cleaning

BLAST CAN

Used with vacuum for closed loop UHP

NO OTHER ROBOT CAN ACCOMPLISH THIS!

MES MAGTRACK Q&A

Does the MES MagTrack have issues going over weld seams?
With its dual adjustable magnets and four-wheel drive, the MES MagTrack effortlessly tackles even the toughest weld seams in any orientation.

Does the MES MagTrack require a specific abrasive to be utilized to be efficient?
No, you have the freedom to choose your abrasive. MES understands that every project is unique, and there's no one-size-fits-all abrasive. We can assist in selecting the appropriate abrasive based on the job specifications.

What are the bars around the wheels on the MES MagTrack?
The bars you see on the front and rear of the robot carriage serve as safety bars to prevent damage to the unit.

Does the MES MagTrack have any issues with dust getting into it's electronics?
No, the MES MagTrack is completely watertight and protected from the harsh environment of sandblasting.

Are we able to demo the unit on our job-site or at your facility?
Yes! We welcome those who want to try the unit to one of our facilities to put their hands on the robot. We can schedule an onsite demonstration with one of our certified robot technicians.

What type of nozzles and how many are required on the robot for optimal results?
MES does not endorse a one-size-fits-all approach to nozzle setup. Recognizing that each project is unique, we engage in discussions to understand your specific parameters and recommend solutions based on industry best practices. While considering factors such as job site air pressure, surface profile, and abrasive savings, our general recommendation is to utilize two #8 nozzles for optimal efficiency. However, it's important to note that the MES MagTrack has the capability to accommodate up to three #10 XL nozzles, providing flexibility for varying project requirements

QUESTIONS?

Contact MES, your source for MagTrack Rentals and Sales, directly at **mes.us or 888.281.2643.**

MULTIPLE BENEFITS THAT INCREASE YOUR OUTPUT

IMPROVE PRODUCTIVITY

INCREASE PROFITS

EASY TO OPERATE

CONSISTENT BLAST

LESS ABRASIVES

EMPLOYEE SAFETY

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SPECIFICATIONS

ROBOT CARRIAGE

VOLTAGE	48 VDC
DIMENSIONS (L X W X H)	28 x 20 x 14 in
WEIGHT	176 lbs

BLAST SWING ARM

DIMENSIONS (L X W X H)	45 x 20 x 34 in
WEIGHT MAX. CLEANING	33 lbs 79 in Up
PATH NOZZLE DIAMETER	to #10 nozzle

CONTROL BOX

VOLTAGE	110VAC & 240VAC
DIMENSIONS (L X W X H)	28 x 24 x 35 in 110 lbs
WEIGHT MAX. CURRENT	20 Amp @ 110Vac
FUSE FREQUENCY	& 16 Amp @ 240VAC
CABLE LENGTH	50/60 Hz 164 ft

HANDHELD WIRELESS CONSOLE

VOLTAGE	3.7 VDC
DIMENSIONS (L X W X H)	9 x 12 x 6 in
BATTERY LIFE	9 hours (80%)
CHARGING TIME	Circa 3 hours (0 ->80%)
WIRELESS RANGE	130 ft

MULTI-PURPOSE

APPLICATIONS

- Surface preparation
- Oil storage tank cleaning
- Industrial washing
- Cargo hold cleaning
- Waterjet cutting

mes.us
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MAJOR SERVICE CENTERS

Washington Alabama Virginia California Ohio Louisiana Florida Mississippi

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Rev. #4 - Updated 6.2.25