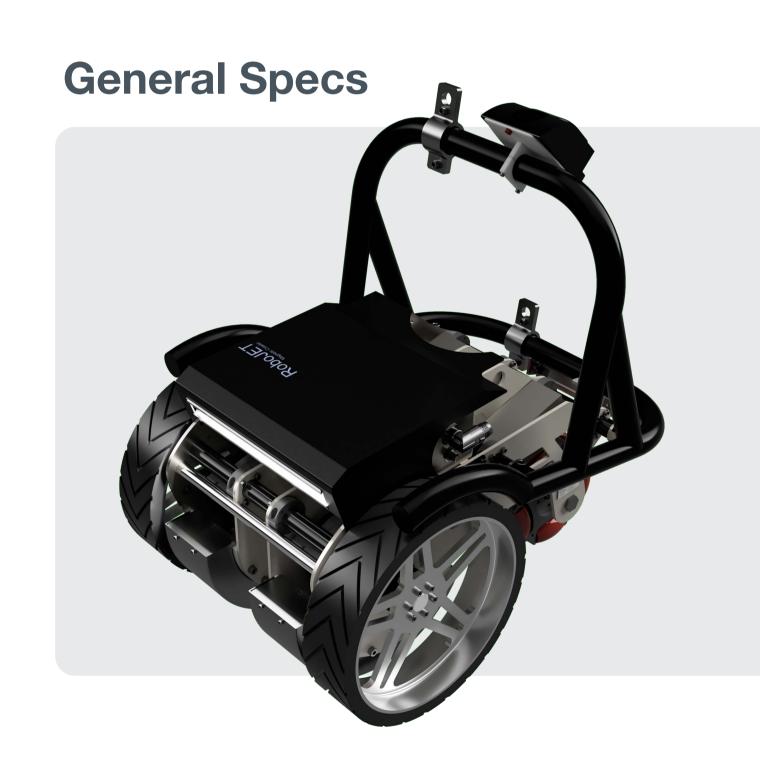
ONE RoboJET

INFINITE SOLUTIONS



The RoboJET platform is usable in UHP, Cargo Hold Cleaning and Grit-Blasting applications. Convertable for all these applications with expension kits and accessories.

CONFIGURE YOUR ROBOT FOR THE BEST PERFORMANCE YOU NEED



Cleaning width up to 2.000 mm

Dimensions 768 X 552 X 683 mm

Total Weight 92 kg



Transform the mode in minutes for different applications



Ready to use all in one solutions



Easy adaptation for your specific applications

ULTRA HIGH PRESSURE APPLICATION

For the removal of paint

Pressure

Max. 3,000 bar @ 40 l/min

Nozzles

Self rotating bar with 12 x M10 nozzles

Average production rate 65 - 80 m²/h

CLEANING **APPLICATION**

For the Cargo Hold cleaning

Pressure

Max. 250 bar @ 48 l/min

Nozzles

4 x Turbo nozzles

Average production rate 700 - 800 m²/h

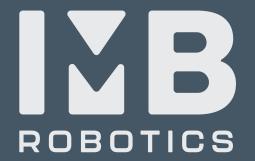
GRIT BLASTING APPLICATION

For the removal of paint

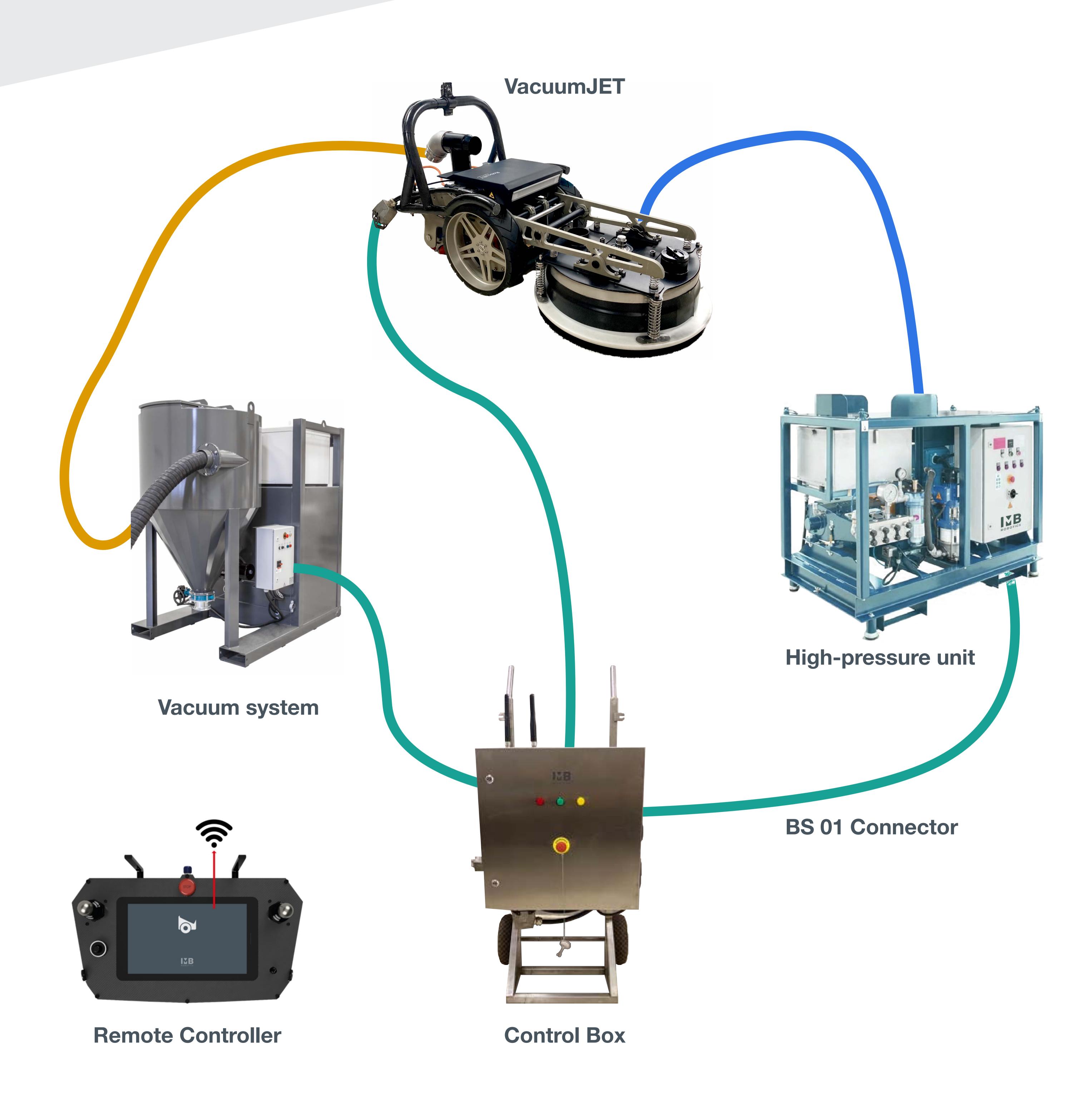
Nozzles

Two grit-blasting nozzles.

Average production rate 30 - 40 m²/h



RoboJET SYSTEM CONFIGURATION



Control all your equipments from one system.

Arm JET-G

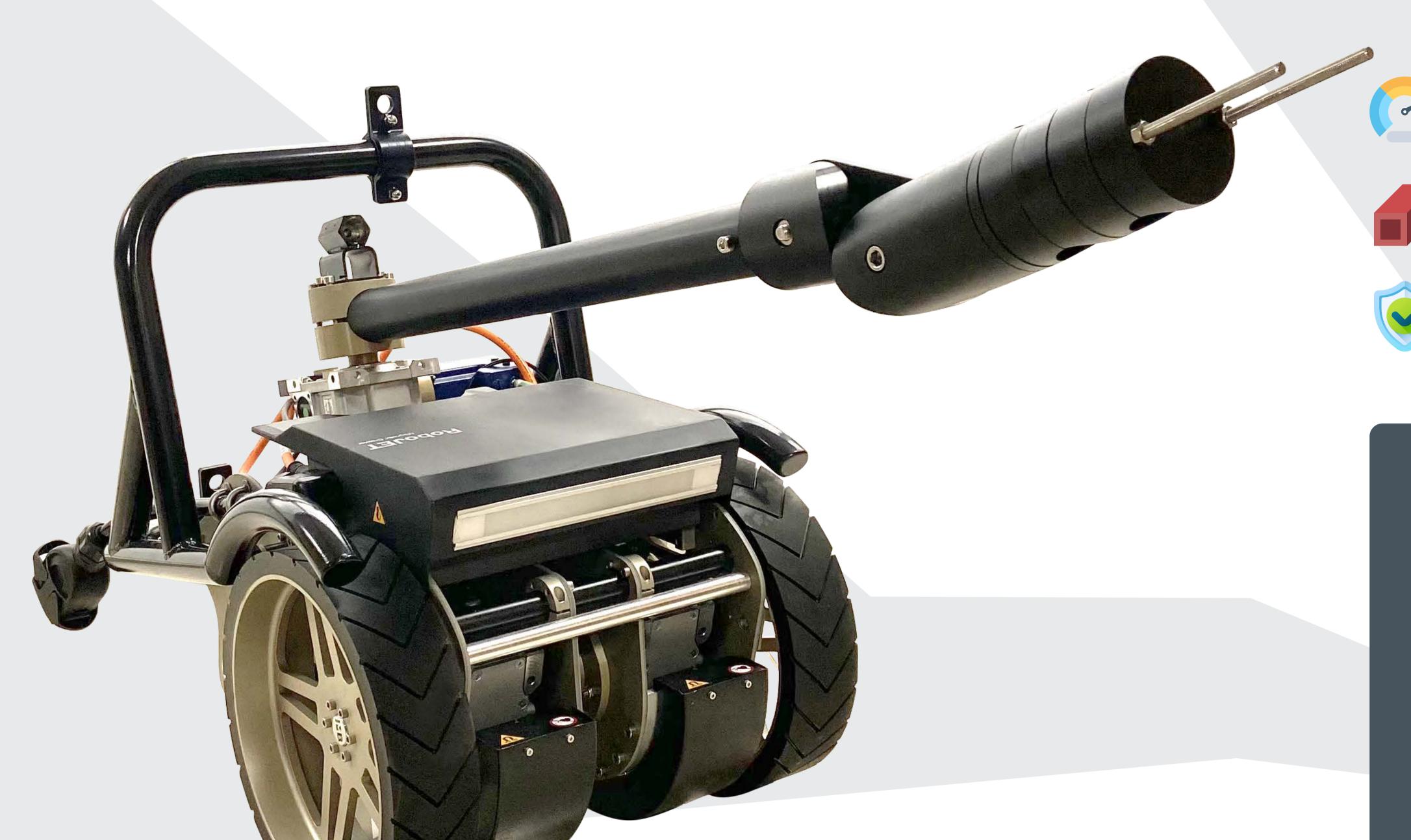
DRY/WET ABRASIVE BLASTING

WORKS ON STEEL SURFACES

IN ALL ORIENTATIONS

SAFE, ROBUST, CLEAN AND EFFICIENT

For abrasive blasting



UP TO 60 M2 X3

PER HOUR

MORE BLASTERS

X8

MORE PRODUCTIVE

9/080

COST REDUCTION





turns the work into a one-man operated job



monitor remotely, stay safely on the ground

Accuracy

With BLDC motor and motor drivers, RoboJET provides highly accurate and precise motion. You can adjust the movement of the robot in milimetric scales.

Safer & More Detailed

The RoboJET is developed to be controlled by just one operator remotely. The operator can stay safely on the ground while the robot does all the work. RoboJET will typically blast approximately 85%-90% of a storage tank. Hand blasting will still be required to touch up difficult areas, stairs, rails, or welds possibly under-blasted due to the angle of the nozzles.RoboJET has also automatic-brake system for electricity cuts.

Always Convertable

The RoboJET was designed to execute a variety of jobs on steel surfaces, such as grit-blasting, hydro-blasting and cleaning. The robot sticks to the surface with powerfull permanent magnets under the body without effecting motion parts and electronical parts. This feature allows it to work stably on Vertical, horizontal and upside-down.

Up To 90% Surface Coverage

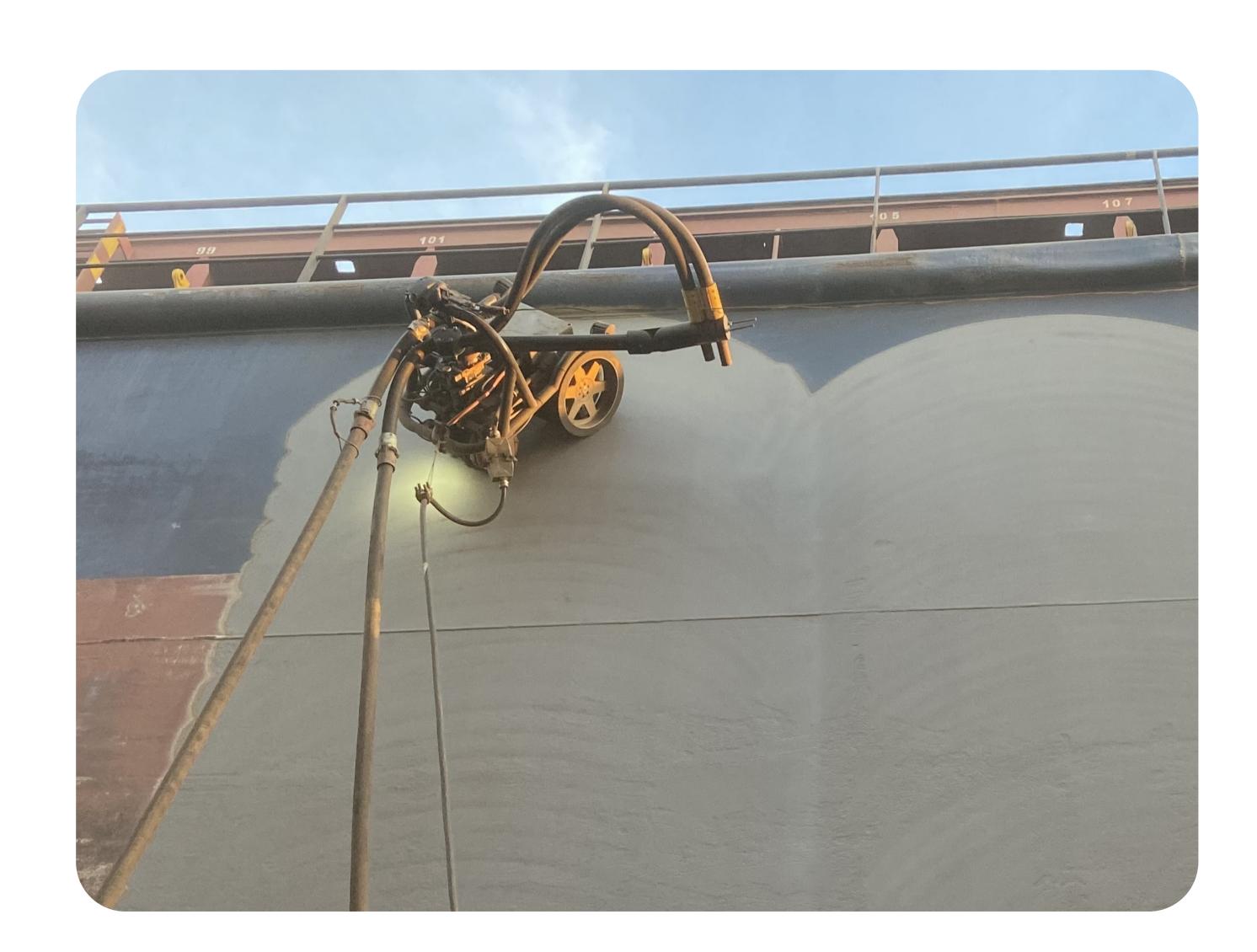


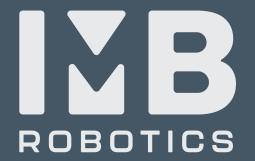
ROI < 5.000 M²



ATEX Zone 2







ONE RoboJET INFINITE SOLUTIONS

TECH SPECS

GRIT-BLASTING APPLICATIONS

For the removal of paint

Working heigts
Up to 30m

Plate thickness 8mm min.

Nozzles

Up to three 8# sandblasting nozzles.

Storage tank diameter **5m min.**

Average production rate

Energy efficiency 96%

100 kg

Cleaning width 2000mm - 77"

60 m²/h

Useful load capacity

Daily maintenance

2 min. eyes check only

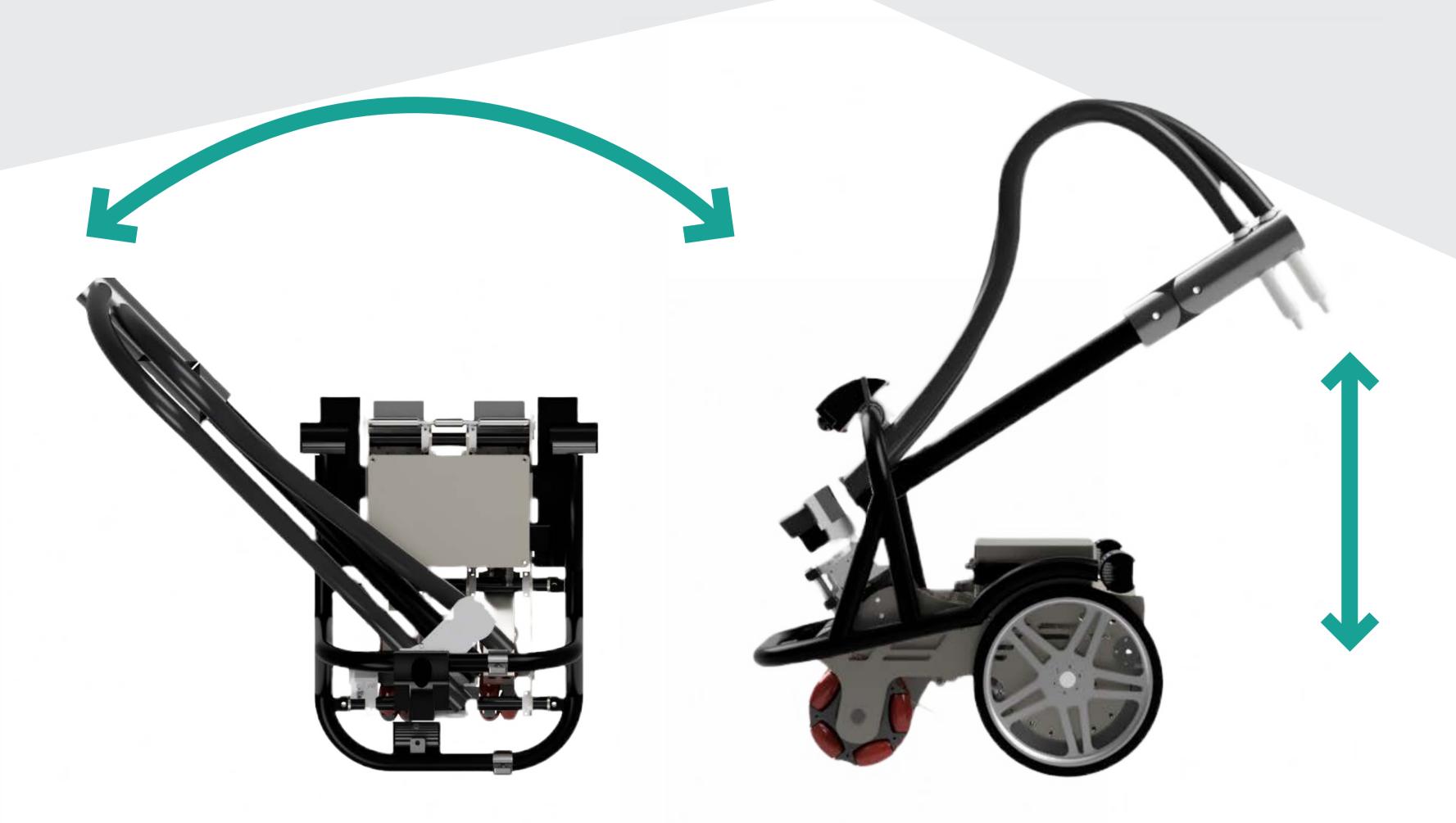
Wireless control

5GHz or 2.4GHz, range up to 100 m

ADVANCED WIRELESS CONTROLLER



The AWC is built on rugged 7" Industrial PC. And it has all-weather IP65 dust and water-resistant carbon fiber design. This enables the AWC to work even in the most restrictive conditions. The AWC is a universal and radio agnostic ground control station. It is a well-proven, secure, and reliable solution which is easily adaptable to your hardware and software requirements. You can easily control all your equipments from one system.



The ArmJET robot has optional 2 axis multi-purpose robotic arm for swing and up-down movements for wide application area like Cargo Hold cleaning, open-loop UHP blasting and grit-blasting

RoboJET is permenant magnetic, So you cannot use steel grit or shot. It will quickly coat the magnet and eventually cause it to dislodge from the surface.

Recommended Setup

Nozzles

2 x Long Venturi Style 1 ¼" Thread
1 inch Entry Rubber Jacketed Sandblast Nozzle

Nozzle Holders

Nozzle Holder, Hep-3/4, (Nylon) 1"1/4 Thread

Blasting Hose

1.1/4", 12 Bar Working Pressure

Compressor for 2 nozzles

8 bar 18m3 110kW

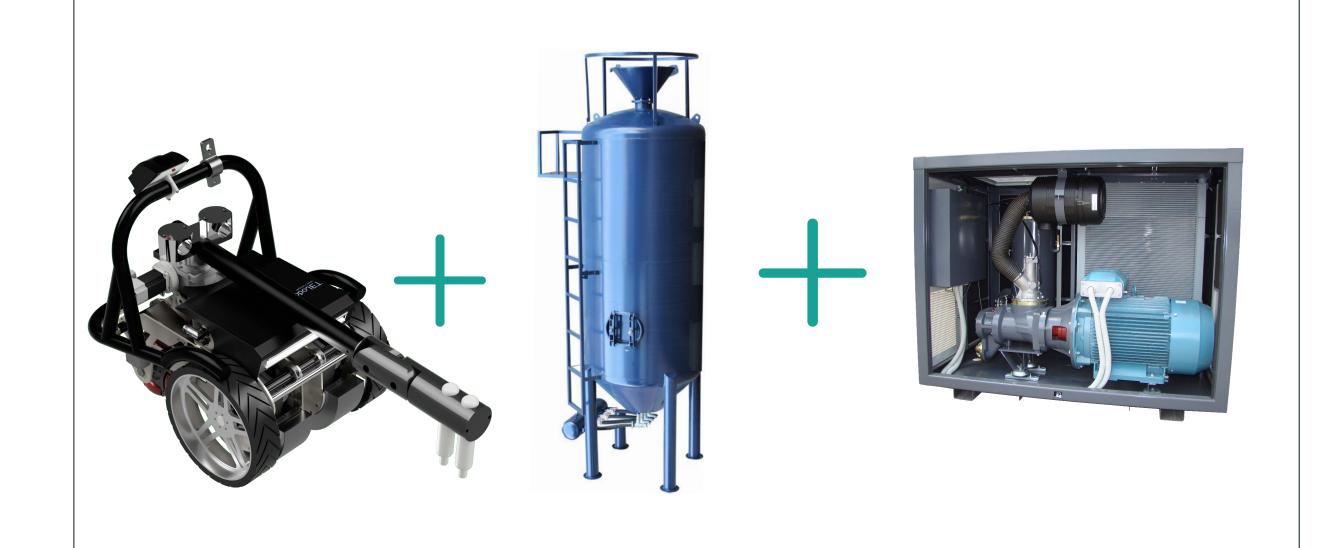
Silo

2-4 Ports 7m³ Silo (8-10 Tons)

People

1 person for operating robot,

1 person onsite to be with the blasting equipment





VacuumJET

For the removal of paint



ROBOT FOR ULTRA HIGH PRESSURE WORKS



WORKS ON STEEL SURFACES IN ALL ORIENTATIONS



SAFE, ROBUST, CLEAN AND EFFICIENT

Edge Design

In VacuumJET, the drive wheels placed directly behind the high-pressure water tool enables a particularly narrow construction with a large working width. This makes the VacuumJet great for removing coating from intermediate surfaces or working around narrow contours and on edges.

Convertable Design

The RoboJET was designed to execute a variety of jobs on steel surfaces, such as hydro-blasting, cleaning and grit-blasting. The robot sticks to the surface with powerfull permanent magnets under the body without effecting motion parts and electronical parts. This feature allows it to work stably on vertical and horizontal steel surfaces.

Safer & More Detailed

The RoboJET is developed to be controlled by just one operator remotely. The operator can stay safely on the ground while the robot does all the work. Also, operator can monitor surfaces remotely with the help of camera and advanced remote controller. There is no need for crane assistance or cherry pickers. The Design allows you to operate 24/7 thanks to the ligthing system on the robot. RoboJET has also automaticbrake system for electricity cuts.

PER HOUR

65_{M²} x12 x9

FASTER THAN

MANUAL WORK

MORE EFFICIENT

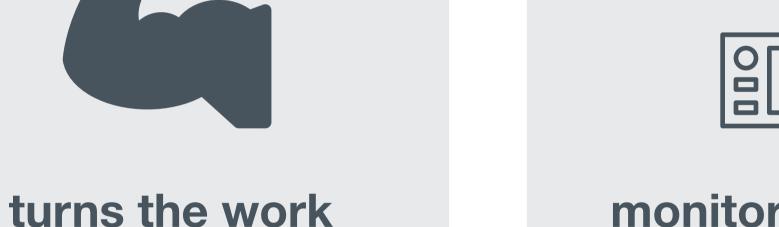
0/0 9() **COST REDUCTION**

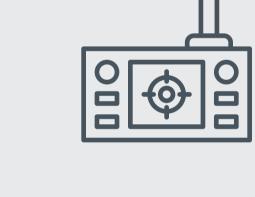




into a one-man

operated job





monitor remotely, stay safely on the ground

SAMPLE CASE: 5,000 m² SURFACE TREATMENT

TIME SPAN: 3 WEEKS

MANUAL RoboJET TIME **LESS WORKING HOURS MANPOWER**

COSTS





COST REDUCTION After initial setup cost

ONE RoboJET MANY POSSIBILITIES

TECH SPECS



The VacuumJET robot has environmentally

friendly closed-loop design to work on

surface preperation operations. With the

help of vacuum system, you can collect

ULTRA HIGH PRESSURE APPLICATION

For the removal of paint

Pressure

Max. 3,000 bar @ 40 lpm

Nozzles

Self rotating bar with 12 x M10 nozzles

Average production rate

65 - 85 m²/h

Cleaning width Energy efficiency

19", ~480 mm 96%

Daily maintenance Useful load capacity

2 min. eyes check only 90 kg

Wireless control

5GHz or 2.4GHz, range up to 100 m

Addons

99% of the waste.



FULL HD CAMERA

- 1080p 60 FPS
- IP67
- Night vision



LED LIGHTS

■ 3 x 24V Homogen



FALL ARREST

- 140 kg payload
- 40° holding angle



EXTRA CABLE

Up to 100m

ADVANCED WIRELESS CONTROLLER



The AWC is built on rugged 8" android tablet. And it has all-weather IP65 dust and water-resistant design. This enables the AWC to work even in the most restrictive conditions. The AWC is a universal and radio agnostic ground control station. It is a well-proven, secure, and reliable solution which is easily adaptable to your hardware and software requirements. You can easily control all your equipments from one system.





PER HOUR

FASTER THAN MANUAL WORK



MORE EFFICIENT

0/095

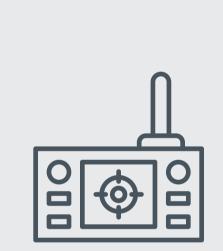
COST REDUCTION



scaffolding or cherry pickers



turns the work into a one-man operated job



monitor remotely, stay safely on the ground

Arm JET-U

For the removal of paint and cleaning



ROBOT FOR UHP, CLEANING & GRIT-BLASTING WORKS



WORKS ON STEEL SURFACES **IN ALL ORIENTATIONS**



SAFE, ROBUST, CLEAN AND EFFICIENT

Accuracy

With BLDC motor and motor drivers, RoboJET provides highly accurate and precise motion. You can adjust the movement of the robot in milimetric scales.

Convertable Design

The RoboJET was designed to execute a variety of jobs on steel surfaces, such as hydro-blasting, cleaning and grit-blasting. The robot sticks to the surface with powerfull permanent magnets under the body without effecting motion parts and electronical parts. This feature allows it to work stably on vertical and horizontal overhead steel surfaces.

Safer & More Detailed

The RoboJET is developed to be controlled by just one operator remotely. The operator can stay safely on the ground while the robot does all the work. Also, operator can monitor surfaces remotely with the help of camera and advanced remote controller. There is no need for crane assistance or cherry pickers. The Design allows you to operate 24/7 thanks to the ligthing system on the robot. RoboJET has also automaticbrake system for electricity cuts.

SAMPLE CASE: 5,000 m² SURFACE TREATMENT

TIME SPAN: 3 WEEKS

MANUAL RoboJET TIME MANPOWER

LESS WORKING HOURS

% LESS DIRECTLY INVOLVED PEOPLE

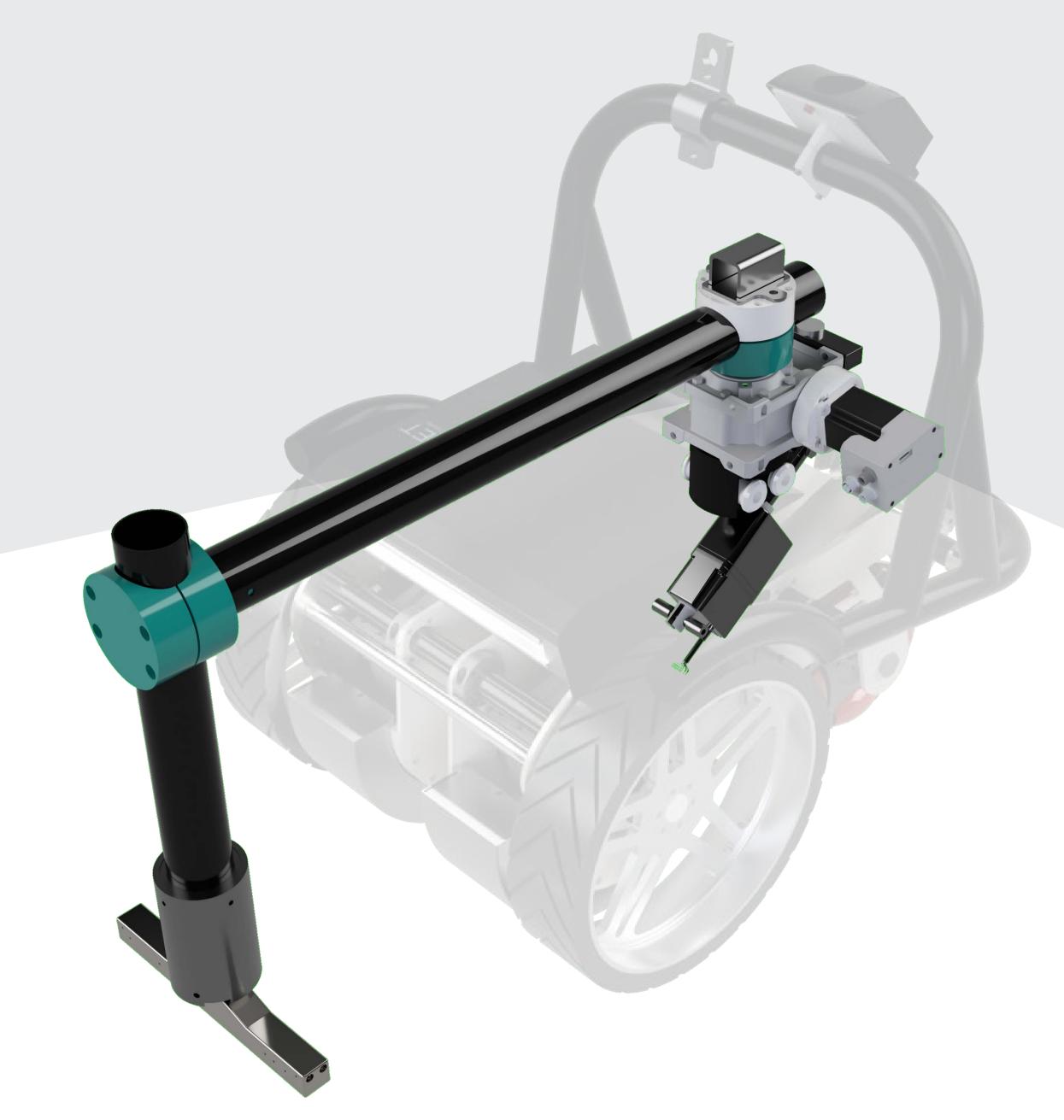
COSTS



COST REDUCTION After initial setup costs

ONE RoboJET INFINITE SOLUTIONS

TECH SPECS



UHP, GRIT-BLASTING AND CLEANING APPLICATIONS

For the removal of paint and cleaning

Pressure

Max. 3,000 bar @ 40 lpm

Nozzles

Self rotating bar with 10 x M10 nozzles
Two nozzle grit-blasting nozzles.
Two turbo nozzles for Cargo Hold cleaning

Average production rate

60 - 70 m²/h

Energy efficiency

96%

Cleaning width

Useful load capacity

1,500

100 kg

Daily maintenance

2 min. eyes check only

Wireless control

5GHz or 2.4GHz, range up to 100 m

ADVANCED WIRELESS CONTROLLER



The AWC is built on rugged 8" android tablet. And it has all-weather IP65 dust and water-resistant design. This enables the AWC to work even in the most restrictive conditions. The AWC is a universal and radio agnostic ground control station. It is a well-proven, secure, and reliable solution which is easily adaptable to your hardware and software requirements. You can easily control all your equipments from one system.

The ArmJET robot has 2 axis multipurpose robotic arm and 1 actuator for wide application area like Cargo Hold cleaning, open-loop UHP blasting and gritblasting



Average production rate

30 - 40 m2/h

Semi-autonomous

Automatic arm swing and drive options

2 Axis

Multi-purpose swing arm with 2 axis

Accuracy

Milimetric scales

Adjustable distance

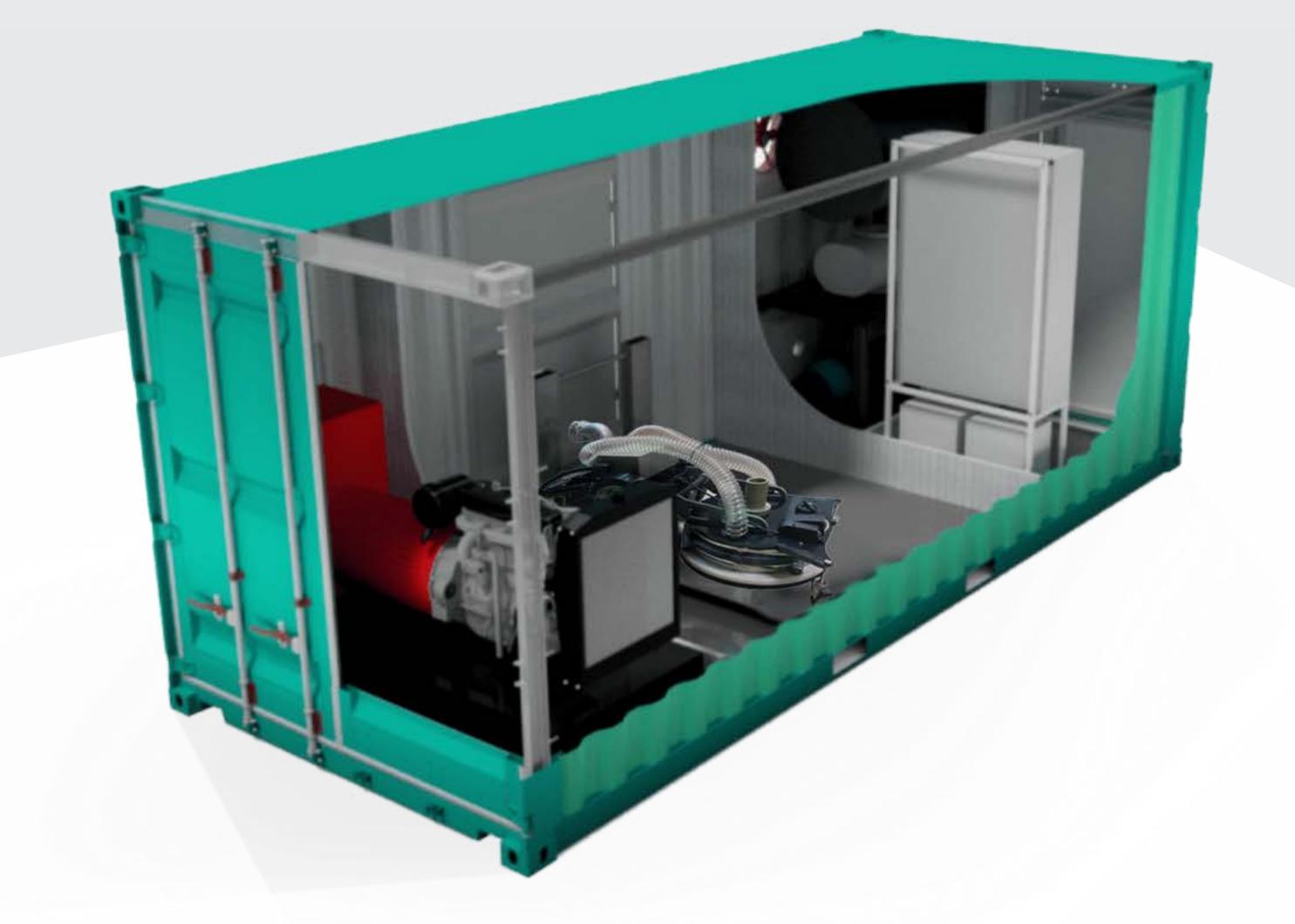
Adjustable position towards surface

Nozzle

Two nozzle holders, suitable for mounting grit blasting nozzles.



STORE & TRANSPORT



CONTAINER

All in one solution

IMB provides a fully equipped container that contains the components that control the robot on the steel surface and vacuums the paint and water after coating is removed by the robot. The wastewater with paint residue and all particulates are sent to the holding tank.

Specs

- RoboJET Robot
- Vacuum System
- 2500 bar UHP Jet
- Relief valves

TRANSPORT SYSTEM

For all the kits and addons you have.



The transport system is designed to carry all the kits and addons with its multi purpose frame to mount control cabinet and wind power cables or hose.

DOLLY

Mobile control panel



The Dolly allows you to work in every hard-to-reach areas without the need for crane or cherry-pickers.

WATER JET & VACUUM SYSTEM

WAIERJEI

Integrated manegement

RoboJET is compatible with 3rd party technologies. For a safer work, we provide fully robot control integrated 21 lpm to 38 lpm UHP waterjet units.



Specs

- 2500 bar
- 21lpm to 38lpm
- Diesel or electirical units AWC integrated

VACUUM SYSTEM

Complete solution all of things



IMB provides ready to work components that you need as well as vacuum system for your setup.

Specs

Maximum vacuum:

-500 mbar

Contents:

Suction hopper

Vacuum generator: **Roots-type blower**

4 m³

Electric motor:

22 kW

IMB ROBOTICS OTHER PROJECTS

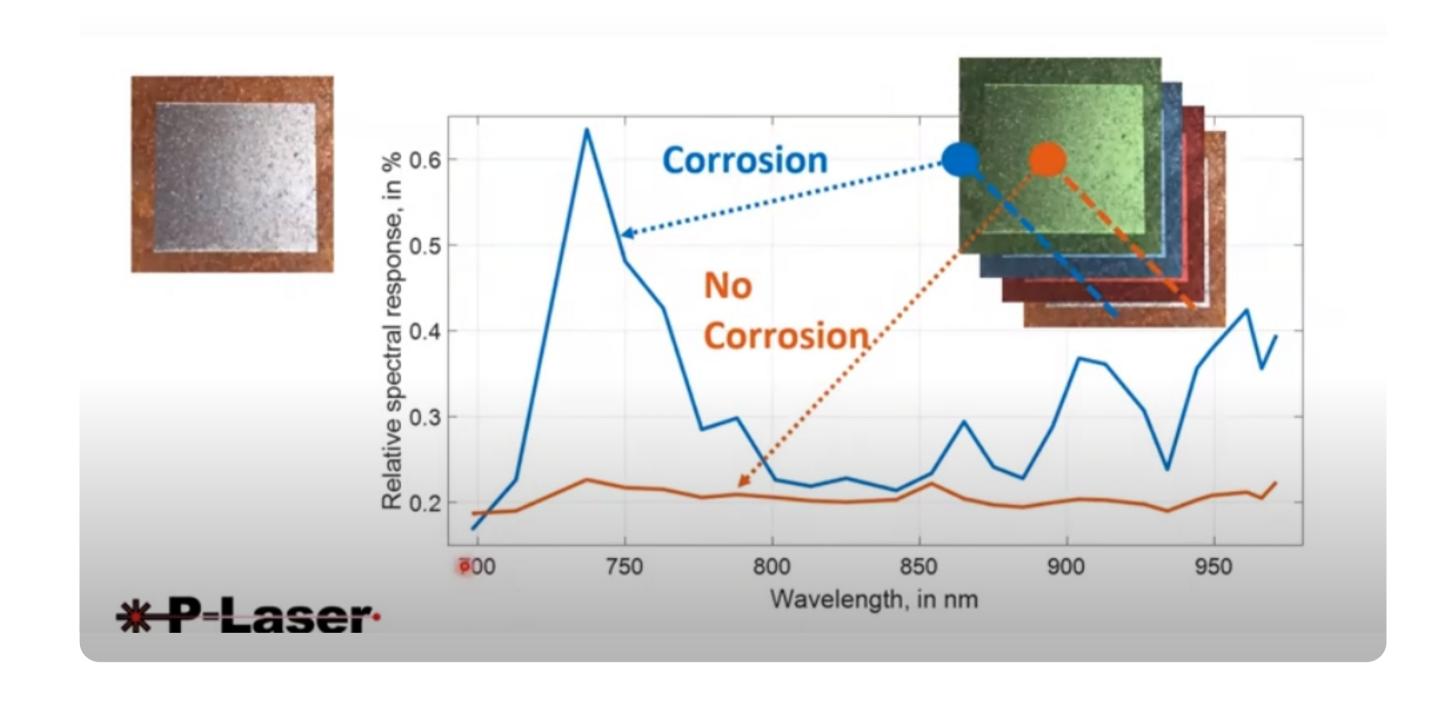
Explorer 101

A Magnetic Climbing Robot for Marine, Oil & Gas and Energy industries.

Explorer 101 provides reliable flaw detection and fast inspection. An ideal solution for surface inspections and treatments.



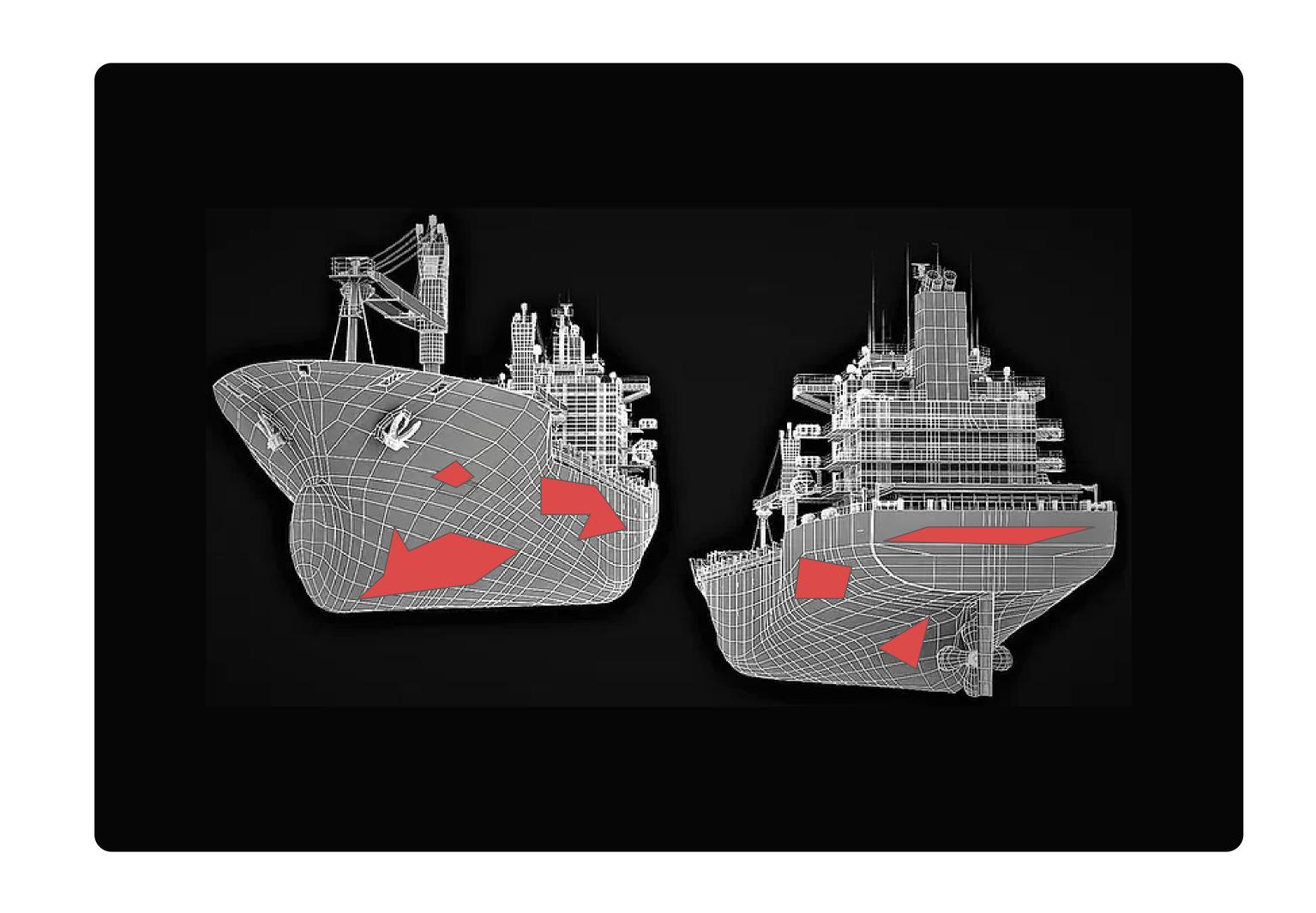
Hyperspectral and IR cameras for efficient assessment of coatings



IMB, together with OGUZKAGAN defence company starting a new project on the use of hyperspectral and infrared cameras for the inspection of coatings, the detection of corrosion and the quality control of material treatments.

3D Laser Scanning and Modeling

We aim to model all ships before they enter the shipyards and to estimate defects and maintenance costs before work begins.



IMB ROBOTICS OUR SERVICES

We provide industrial automation solutions for surface treatment applications, monitoring systems and manufacturing automation processes.

Industrial IoT

We develop custom Industry 4.0 solutions to enable established companies across industries to increase efficiency, reduce risks and increase profits through automation and digitalization of their business.



The systems that can monitor, collect, exchange, analyze, and deliver. These insights will create smarter, faster business decisions for industrial companies.

RTLS Solutions - You can transform your business into a highly efficient, powerful and streamlined operation. Using technology based on ultrawideband TDoA, you will have more productive, cost-effective and safe industrial operations.

Cloud-based Data Management Systems - Collecting, processing and analyzing data is the basis for predictive maintenance. You will able to detect weaknesses in the process early and can respond directly.

Mobility Concepts

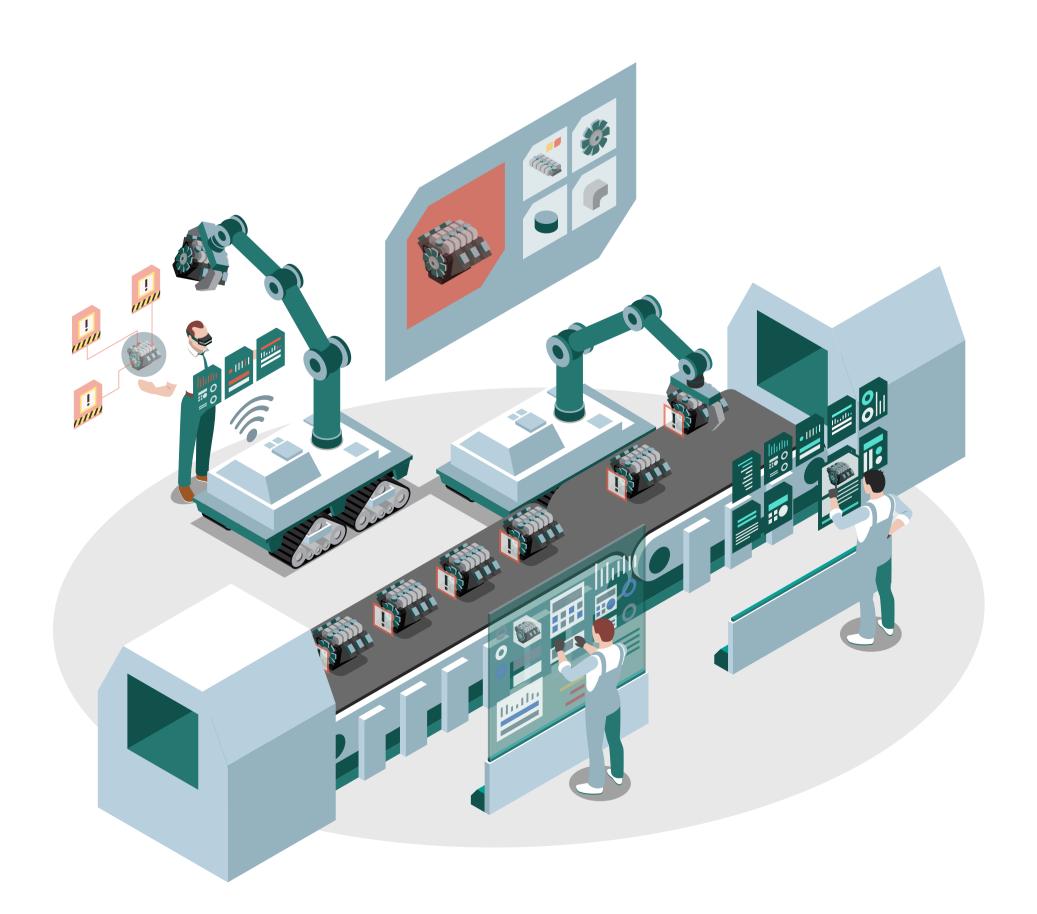
We know that electrical vehicles will play a key role in the future of mobility. But it depends crucially on how smart they are.

We design and develop of autonomous or semi-autonomous UGVs and AGVs





Bi-directional data transfer for smarter systems.



Custom Solutions

With the help of our experienced project teams, we provide custom solutions depending on what your needs are.

A total package: from evaluation to the concept and to implementation

- Innovative charging stations for use in both commercial and rugged environments.
- Cloud-based operating services for convenient set-up, usage, maintenance and administration.
- Bi-directional data transfer for smarter systems.

