



**FIRST REMOTE CONTROLLED DEMOLITION  
ROBOT WITH HYBRID DRIVE SYSTEM**

**DRIVEN BY TECHNOLOGY,  
DEDICATED TO RESULTS**

**ARE 1.0**  
DEMOLITION ROBOT

# ARE IS THE FIRST REMOTE CONTROLLED DEMOLITION ROBOT WHICH MOVES WITHOUT EXTERNAL POWER SUPPLY

Multitask, strong and mobile, the ARE robot is a technological innovation that works great on the construction site and in production plants.

Thanks to remote control and thoughtful design, the ARE robot is an ideal partner for tasks that are too risky and physically exhausting for people. It allows a significant increase in work efficiency while improving safety for operators.

Hybrid drive and durable batteries significantly reduce the time needed for the machine to reach the workplace, and thanks to the electric power supply, the ARE robot can also work in a confined space.

The ARE hydraulic arm has been designed to allow quick attachment of tools such as grips, grabs or shears. Thanks to this, robot can be successfully used for work such as digging, demolition or crushing.

## HIGHER PRODUCTIVITY AND SHORTER DOWNTIME

Excellent power-to-weight ratio and simplicity of handling make ARE almost immediately ready for uninterrupted, long-lasting work. The hybrid drive facilitates access and positioning of the machine, and the lubrication-free bearings reduce the need for daily servicing, minimizing the risk of breakdown.

## REMOTE MONITORING AND FULL CONTROL

Remote monitoring of ARE parameters enables GPS location of the machine through the GSM network, which allows not only an live oversight but also increases work efficiency. Thanks to this, site or production management gain an additional tool for supervising staff.

## OPERATOR'S SAFETY AND COMFORT

The cooling system and remote control make ARE ideal for working in high temperatures and other difficult conditions. The robot can be operated from a safe distance using an ergonomic remote control with a convenient grip and a clear screen.

## QUICK DIAGNOSTICS AND SERVICE

We guarantee quick availability of spare parts. Thanks to remote communication with the machine, our service engineers can quickly find and rectify faults, and in the case of longer repairs, we also provide the option of replacement equipment.

**3 km/h**

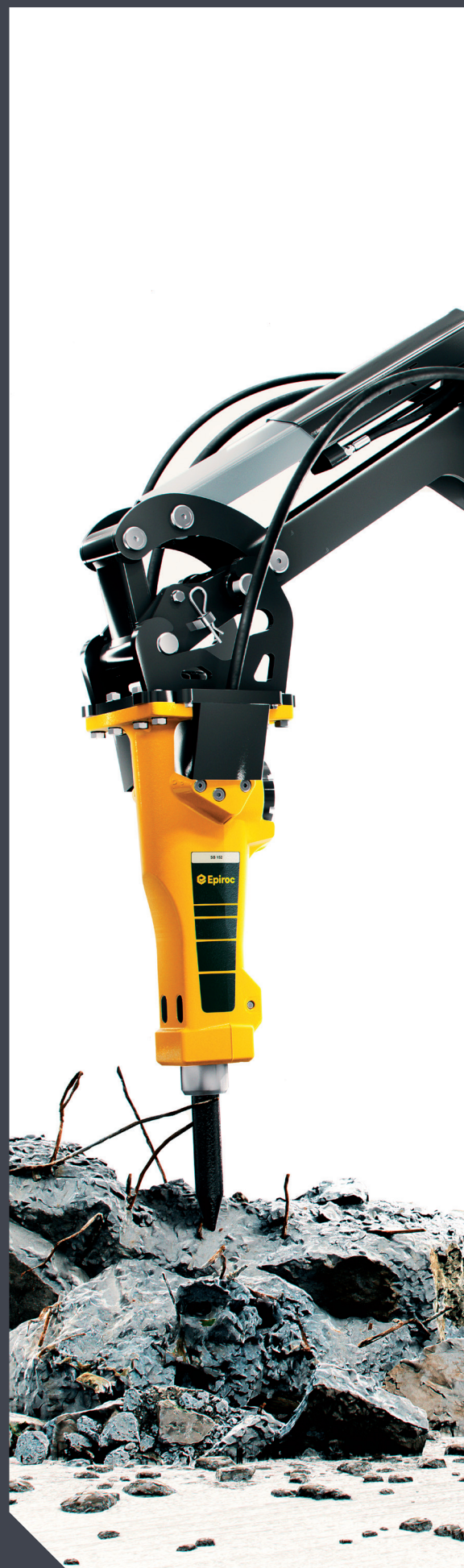
ARE's transport speed

**up to  
40 min.**

minutes of  
battery running  
time

**1000 kg**

approximate robot  
net weight





## ROBOT ARE IS A PROVEN PARTNER FOR TASKS IN MANY FIELDS

DESIGNED FOR THE CHALLENGES AT CONSTRUCTION SITES, THE ARE ROBOT HAS ALSO SUCCESSFULLY PASSED TESTS IN OTHER INDUSTRIES:

### CONSTRUCTION

Hybrid drive, reinforced construction and unrivalled engine power make ARE a reliable partner for construction teams. Innovative control modes, contour lighting and remote track tension control enables precise demolition, regardless of the time of day. Thanks to the electric power supply without exhaust emissions, ARE also works well in enclosed spaces, and its light weight and maneuverability allows you to climb stairs and safely carry out demolition works on the first floor.

- **Disassembly**
- **Removals**
- **Digging**
- **Drilling**

### CEMENT PLANTS

Every hour of cement plant downtime is a huge cost. Thanks to compact dimensions, maneuverability and mobility without external power supply, ARE will easily enter the rotary cement kiln and other confined spaces in your production plant. Electric power, efficiency and engine power allow much faster forging of the residual material and restarting the furnace.

- **Cleaning the rotary kiln**
- **Demolition on premises of the production plant**

### SMELTERS AND METALLURGY

Combining a small size with a functional construction, the ARE robot easily fits into the furnace, kiln, ladle and other spaces with limited access. Able to work at higher temperatures and controlled remotely, ARE can enter the furnace much faster than a team of employees would do, reducing the losses associated with production downtime.

- **Cleaning furnaces and vats**
- **Demolition at the plant**
- **Resistance to high temperature**

### MINES

Mobile, remote controlled and versatile, ARE robot will be suitable for a variety of works in the mine, where it is safer to send the machine instead of people - from drilling to digging, through collecting aggregate to demolitions.

- **Digging**
- **Crushing**
- **Demolition at the plant**
- **Drilling**
- **Breaking**
- **Raising**



**ARE ROBOT ARE MULTIFUNCTIONAL  
TOOLS FOR CONSTRUCTION AND  
INDUSTRY**

A WIDE AND CONSTANTLY EXPANDING RANGE OF ATTACHABLE  
TOOLS ALLOWS YOU TO ADAPT ARE TO VARIOUS TASKS ON THE  
CONSTRUCTION SITE AND IN FACTORY:

HYDRAULIC BREAKER

GRIPPERS

HYDRAULIC  
SHEARS

CLAMSHELL  
GRIPPER

BUCKET

SORTING  
GRIPPER

MULTI-GRIPPER

DEMOLITION  
GRIPPER

8

Types of tools compatible

200 kg

Maximum tool  
weight tool

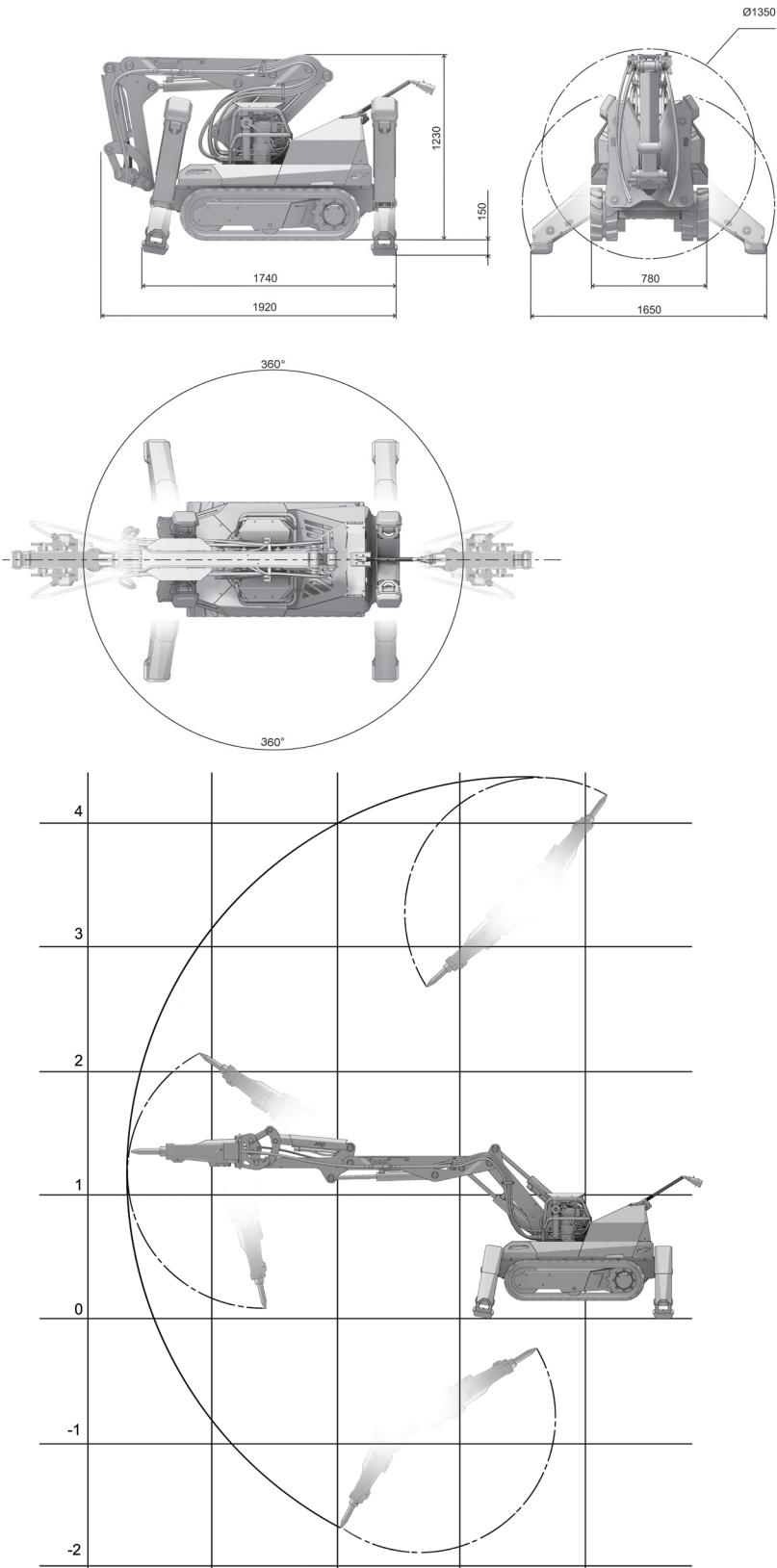
1100 kg

Grabbing power  
of gripper of shears



# ARE ROBOT HAS EXCELLENT TECHNICAL PARAMETERS

EACH ELEMENT OF ARE HAS BEEN DESIGNED WITH THE NEEDS AND COMFORT OF OPERATORS IN MIND:



## GENERAL

Net weight	995 kg
Shoulder extension (with breaker)	3,7 m (horizontal)
Shoulder extension (with breaker)	4,4 m (vertical)

## PERFORMANCE

Transport speed	3 km/h
Turret rotation speed	6 rpm
Max. inclination angle	30°
Battery running time	up to 40 min

## HYDRAULIC SYSTEM

Pump type	Multi-piston, with variable performance
Pump performance	52 L/min
Max. pressure	250 bar
System volume	44 L

## ELECTRIC ENGINE

Power rating	15 kW
Start-up type	Soft start
Voltage	400 V (50 Hz)

## REMOTE CONTROL

Type	Remote control device
Communication	Radio and cable

## TOOLS

Max. tool weight	200 kg
Grabbing power (gripper/shears)	up to 1100 kg (smooth adjustment)



## ROBOT ARE IS AN INNOVATION FROM ADVANCED ROBOT ENGINEERING.

We are a Polish family company that for many years provided demolition services, diamond technology and equipment service in Lower Silesia, all over Poland and abroad.

We know from experience what trouble and financial losses equipment failure can generate.

Over the last 15 years, we have been regularly repairing, servicing and improving demolition equipment. We know exactly what works and what doesn't!

ARE is a response to the challenges of the construction and production industries. Our robot means greater efficiency, safety and better performance with many innovative features designed to facilitate your everyday work.



**Customer Service**  
24/7



**Parts Delivery**  
48h

**SEE WHAT ARE CAN DO FOR YOU –  
CALL US AND GET TO KNOW IT IN  
ACTION!**

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Republic  
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European Union  
European Regional  
Development Fund

