

MarronePower Ltd.

BROCHURE

resistance spot welding electrodes
customized software development
special tool manufacturing



**MarronePower Ltd.
was founded in 2009.
Its main profile is
the production of
resistance spot welding
electrodes for
industrial use.**



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*Thinking
and innovation* **power**

About us

The MarronePower Ltd. was founded in 2009. Now MarronePower Ltd. has more than 40 employees. The production is located at more than 1000 m2 factory. MarronePower mainly deals with production of resistance spot welding electrodes mainly for industrial use, working with special materials (e.g. cooper, tungsten, molybdenum and other special alloys).

Our highly qualified designers and our modern machine park made individual system design and implement customized machines. We utilize world wide known and popular softwares (SIEMENS NX, Creo), which have resulted significant increase in productivity.

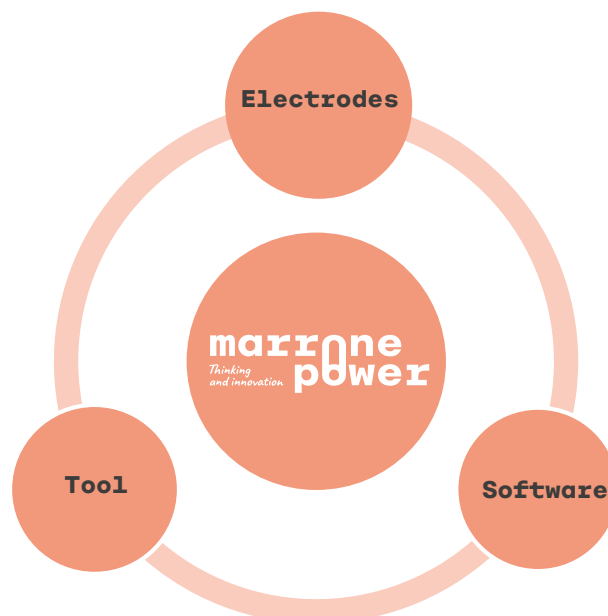
In 2013, we introduced the ISO 9001: 2015 quality management system to meet the increased customer expectations and to ensure a precise production process.

The other main activity of MarronePower Ltd. is customized software development.

Our highly qualified team consists of highly qualified professionals who work with the latest technologies in application development. There are several available self-developed applications in our software offering (QuickSell Management System, Manufacturing Tracker and Access Control System).

We can offer high quality products that meet the expectations of our partners at competitive prices.

Main profiles



Our Location





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Our Machines



MITSUBISHI Start 43c



Mazak QuickTurn 200MY



FANUC ROBODRILL Alpha D21LiB5



FANUC ROBODRILL Alpha D21MiB5

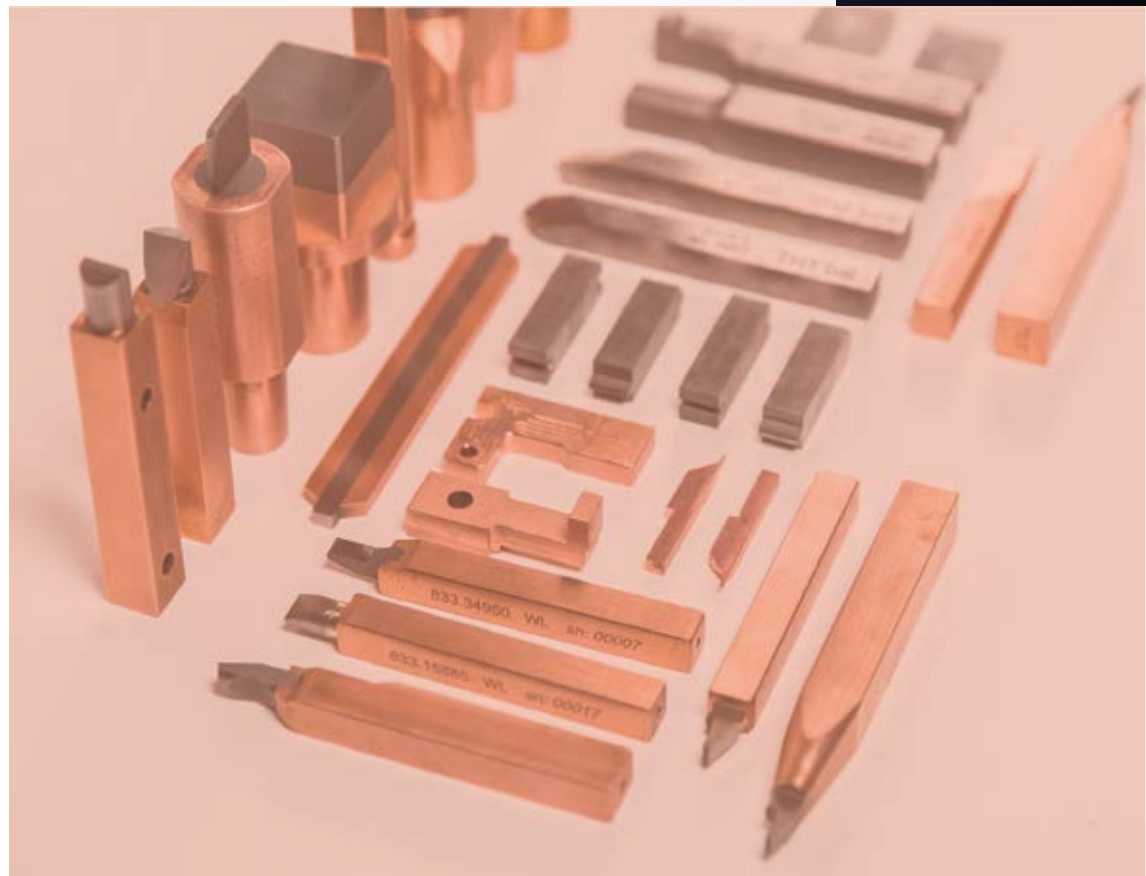


FANUC ROBOCUT Alpha OIE

Our products

electrodes

We offer **over 1500 different types** of high quality electrodes that are delivered to the largest multinational companies. Our **highly qualified designers** and our **modern machine park** makes possible design and implement customized machines.





TZM insert
cone fixed electrode



Tungsten insert electrode
with 4-edged tungsten insert



Tungsten insert
conical electrode



Tungsten insert
pressing electrode



Water cooled
tungsten insert electrode



Cylindrical
tungsten insert electrode



Tungsten
20° welding electrode



Square
pure wolfram electrode



Straight electrode
with square tungsten insert



Tungsten
compacting electrode



Square
tungsten electrode



Tungsten insert electrode
with inclined welding surface



CuCrZr
conical electrode



CuCrZr
electrode



Miniature
welding electrode



CuCrZr
electrode



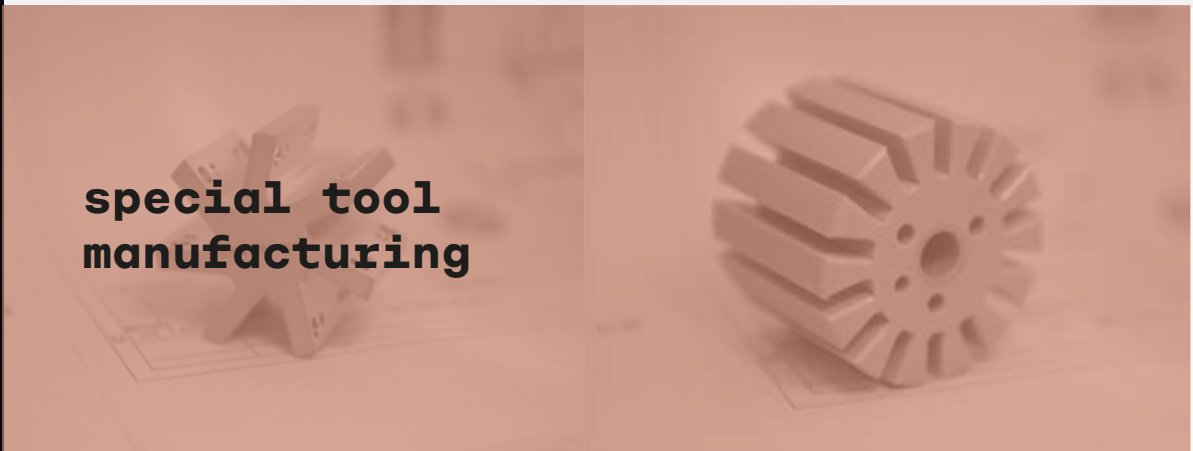
Positioning pin
electrode



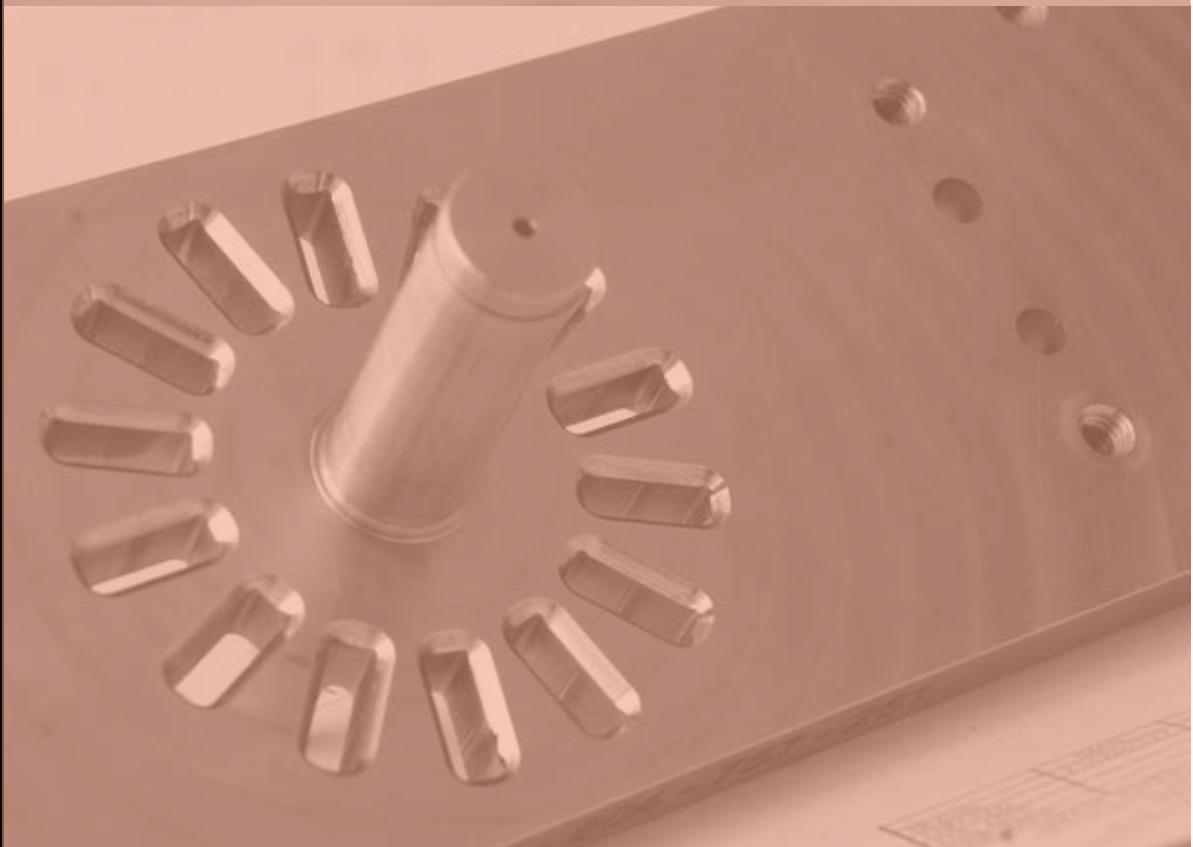
Curved
electrode

PRODUCTS

PRODUCTS



special tool
manufacturing





Software development

Production Tracking, business administration tool

Besides production of spot welding resistance electrodes, MarronePower also deals with customized software development. Our **highly qualified team** consists of highly trained professionals who work with the latest technologies in application development. There are several available self-developed applications in our software solutions prepared for customers of special needs (QuickSell Management System, Manufacturing Tracker and Access Control System). We can offer high quality products that meet the expectations of our partners at competitive prices.

Production tracking

- Barcode identification
- Fixing production time
- Fixing processes
- Product search
- Virtual map
- Individual reports (diagram, Excel)
- Email és SMS notifications (eg: deadlines, partial processes)

Business administration tool

- Sales, and storage management
- Offer creation
- Customers handling
- Supplier/sales order management
- Invoice creation
- Production tracking
- Access Control System
- Regional customization
- Individual reports

Research projects

Autonomous motorized microscope

Activated sludge analysis with the use of autonomously operating microscope to optimize the wastewater treatment plants and achieve significant savings

Hungarian innovation

The technique is unique

Image analysis algorithm

Take and analyze any number of pictures to check automatically

Autofocus

Flexibility

Different kinds of image processing algorithms can be implemented

Medical sample analysis (blood, urine)

Industrial samples analysis (oil)



Industrial automation

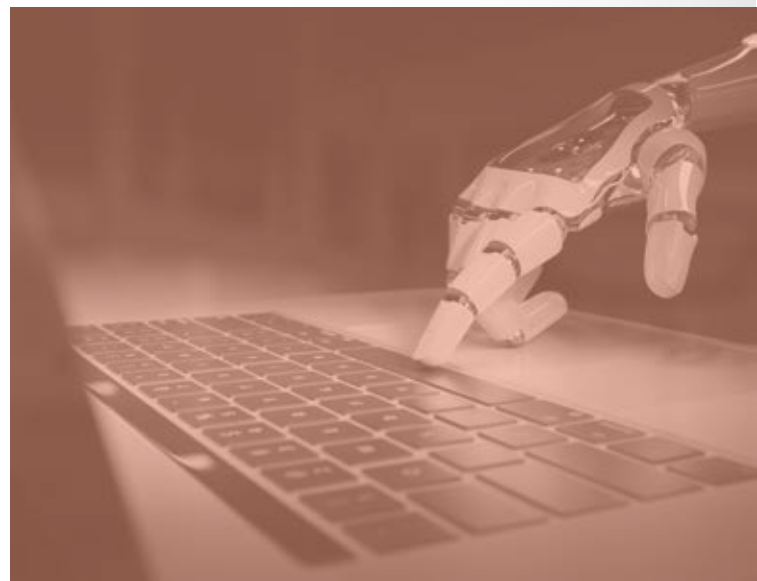
SECS/GEM protocol

This communication protocol is used by the semiconductor device manufacturers, and developed by the SEMI (Semiconductor Equipment and Materials International) organization. This standard defines the messages, state machines and scenarios, which allows to control and monitor manufacturing equipment. This interface can collect measurement data, defines variables, and selects recipes for products in an automated fab.

SECS/GEM implementation

Our company provides solution to implement SECS/GEM communication from the specification phase. Define the state machines and measurement data according to the manufacturing equipment. Configure the SECS/GEM messages and send them to the MES (Manufacturing Execution System). Receive and process the commands from the MES system, and send it to the manufacturing equipment.

Our team has experience how to apply the SECS/GEM protocol on a brand new or an old equipment which is already in the production. We also have experience in the integration of these kind of manufacturing equipments, and know the requirements from the customer and vendor side as well.

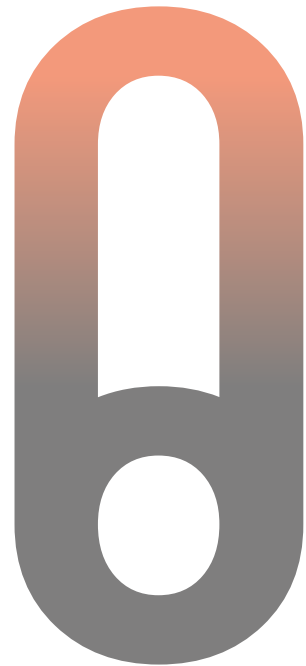


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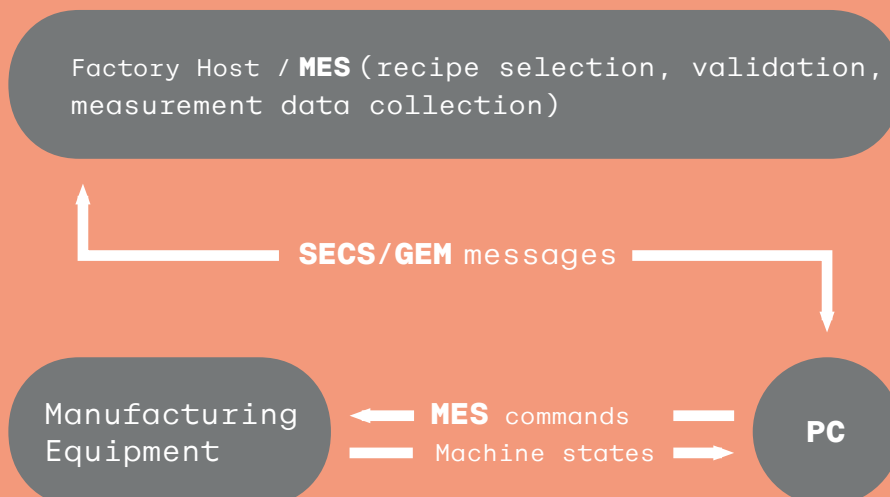


Sending SECS/GEM messages

Apply the specification from the customer, which defines the requirements of the manufacturing equipments gather and process the necessary values from the equipment, then create the defined SECS/GEM messages, and send them to the MES Receive and process the SECS/GEM commands from the MES, and notify the equipment.



Communication between Equipment and MES



Certificates



DNV-GL

MANAGEMENT SYSTEM CERTIFICATE

Certificate No:
210001-2016-AQ-BUD-RvA

Initial certification date:
12 December 2013
Expiry date of last certification cycle:
12 December 2019
Date of last recertification:
27 November 2019

Valid:
17 December 2019 - 12 December 2022

This is to certify that the management system of

MarronePower Kft.

4220 Hajdúböszörmény, Kórház tér 1., Hungary
and the sites as mentioned in the appendix accompanying this certificate

has been found to conform to the Quality Management System standard:
ISO 9001:2015

This certificate is valid for the following scope:

Designing and manufacturing of special industrial machines. Manufacture of resistance welding electrodes. Software development.

Place and date:
Budapest, 17 December 2019

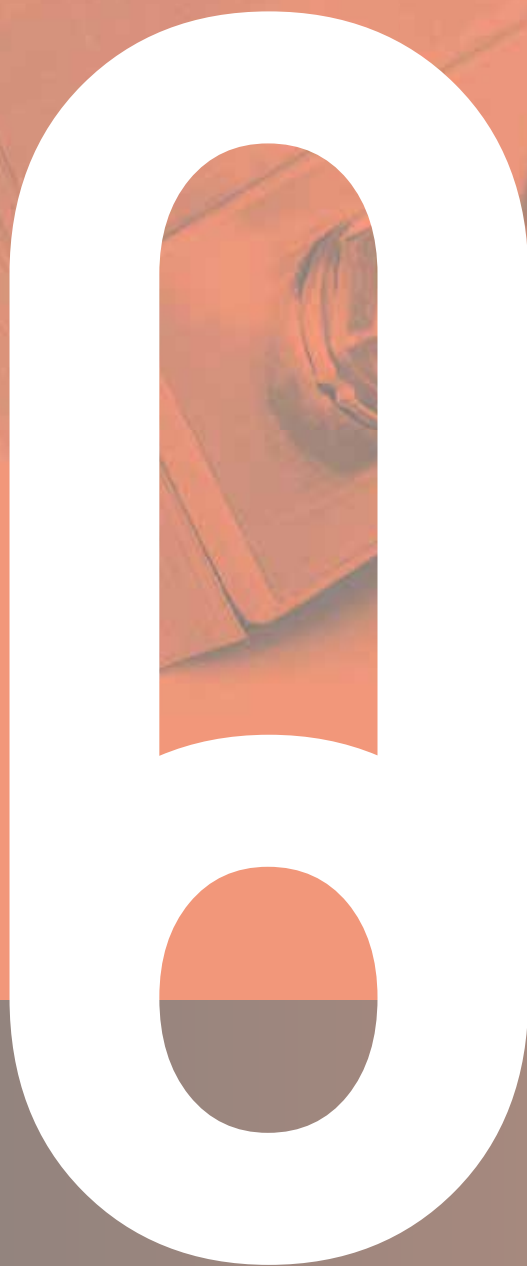


The RvA is a signatory to the IAF MLA

For the issuing office:
DNV-GL - Business Assurance
1143 Budapest XIV, Stefánia út 101-103.,
Hungary


Adlovits László
Management Representative

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