

About us

Profile

The basic idea of Design MP's presence on the market is to increase the level of automation in production processes and its implementation in various areas in industry. We do design and manufacture devices primarily for the electrical, mechanical engineering, automotive and woodworking industries. But that doesn't mean we can't design a solution for other industries as well. We mainly focus on the realization of prototypes, special devices and production lines according to your requirements and needs. Almost all of the projects we have implemented so far have had a prototype character, which is our strength.

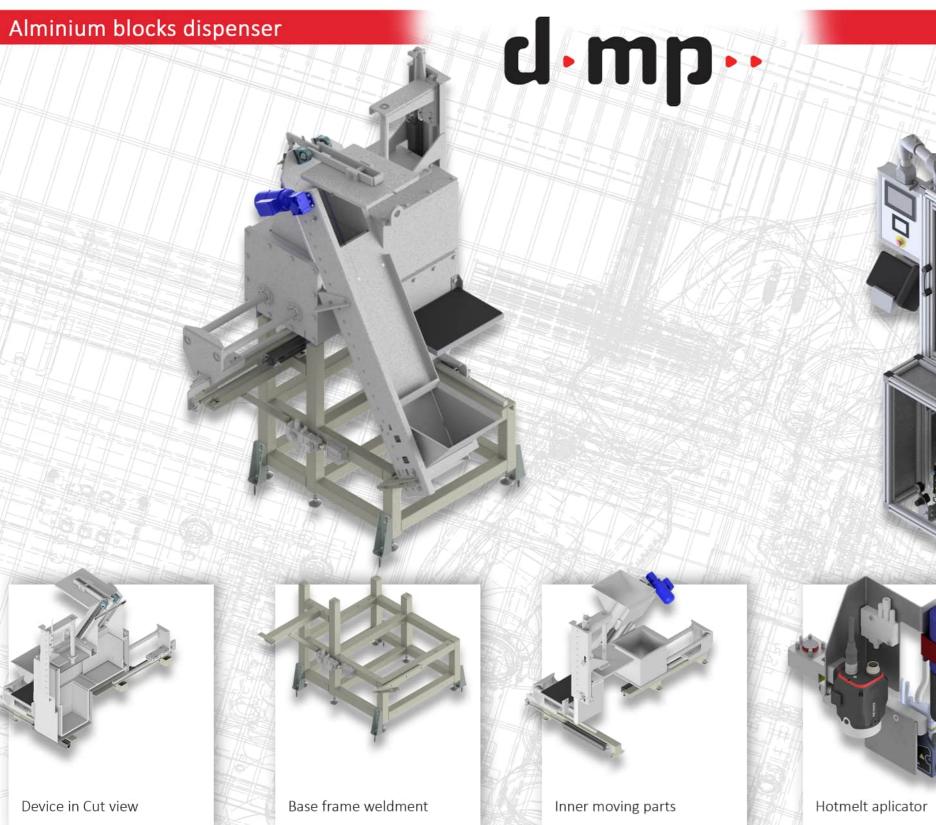
Brief history

Design MP, Ltd. was established in 2007 as a mechanical engineering office for designing single-purpose devices. A year later, in 2008, the production department gradually began to be created so that we could become suppliers of complex solutions according to customer requirements. Thanks to that and also thanks to our specific mindset, over the following years we have developed into a manufacturing company. As an expanding company with currently 32 employees, we have gradually started to tackle with more and more complex projects. Year 2011 was a breakthrough year for us. Thanks to our way of approaching to the customer and our innovative solutions, as a small company we were able to design and implement a 32 meter long speaker production line including 8 robots. The implementation of this production line has pushed the boundaries of what we can do and what we are capable of to the next level. Challenges are defining us and this is what pushes us forward.

Why us

- Devices and production lines according to your requirements.
- · Already at the quotation stage we offer you a detailed solution
- During creating a solution and price offer for you, we put emphasis on your financial possibilities, and based on this information we optimize the final solution
- In the offers we provide detailed pricing that reflects the proposed solution
- We design compact devices with an emphasis on functionality, simplicity, quality and design. We want our devices to be up and running after a few years in production
- We prefer open comunication during working on a solution, we are focused on the details and bottlenecks of individual processes.
- We are a team of people who believe in each other and always bring projects to a successful conclusion
- We are not afraid to implement devices that no one has done before us because they are complicated. For us it is a challenge and a
 motivation as well.
- Our approach to the customer is specific in that we try to consider all possible obstacles that may appear during the process
- We are detail-oriented.





The device inserts aluminium sprues from the injection moulding process into the melting furnace

The main benefit for customer

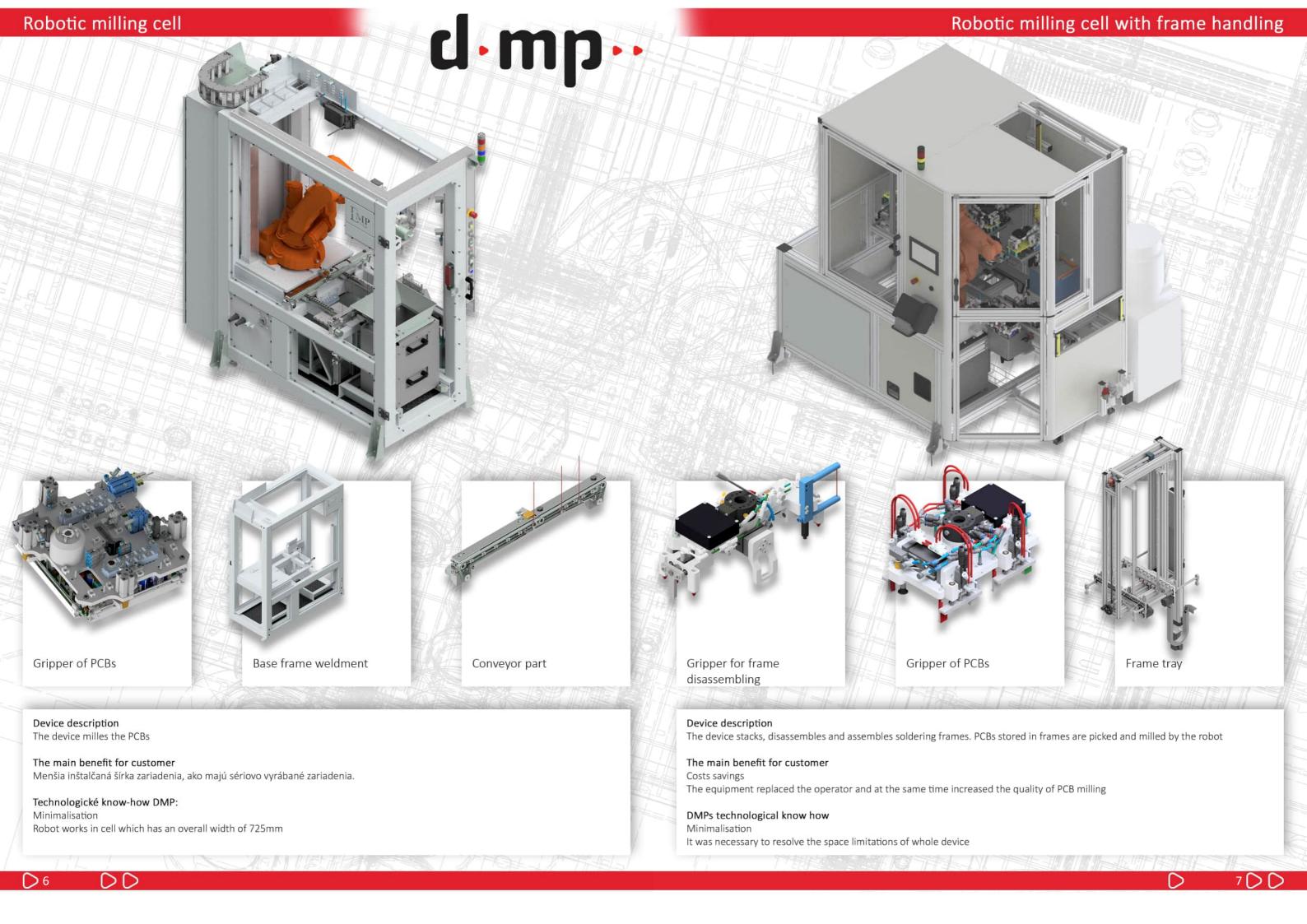
Device description:

The device replaced the dangerous work of the operator when manually inserting aluminium sprues into the melting furnace area

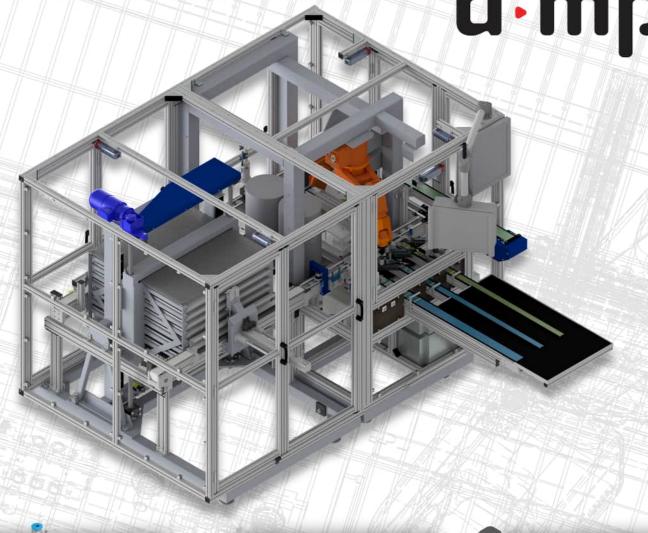
DMPs technological know how

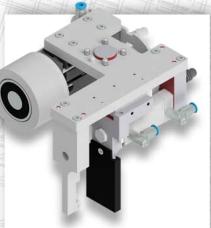
During designing and manufacturing the equipment, it was necessary to take into account the inlet temperature of the furnace, which is 800°C, and also the tightness of the moving parts, because the negative impact is the entry of oxygen into the furnace

Robotic silicone and hotmelt application cell





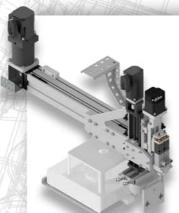




Gripper of insertion the magnets



Gripper for magnets asembling



Manipulator for glue application



Gripper for picking the ball stud sockets from crate



Vibration tray



Manipulator for inserting the parts on convoyer

Device description

The production line is designed for the production of several types of magnets for speakers

The main benefit for customer

Design and arrangement of individual structural nodes of the line on a 3x3m space

DMPs technological know how

Minimalisation

Space limitations and application of two-component glue that dries in 30 seconds in a process

Device description

The workstation is designed to place the ball stud sockets into the exact position of the following device, while the ball stud sockets are removed from the crate

The main benefit for customer

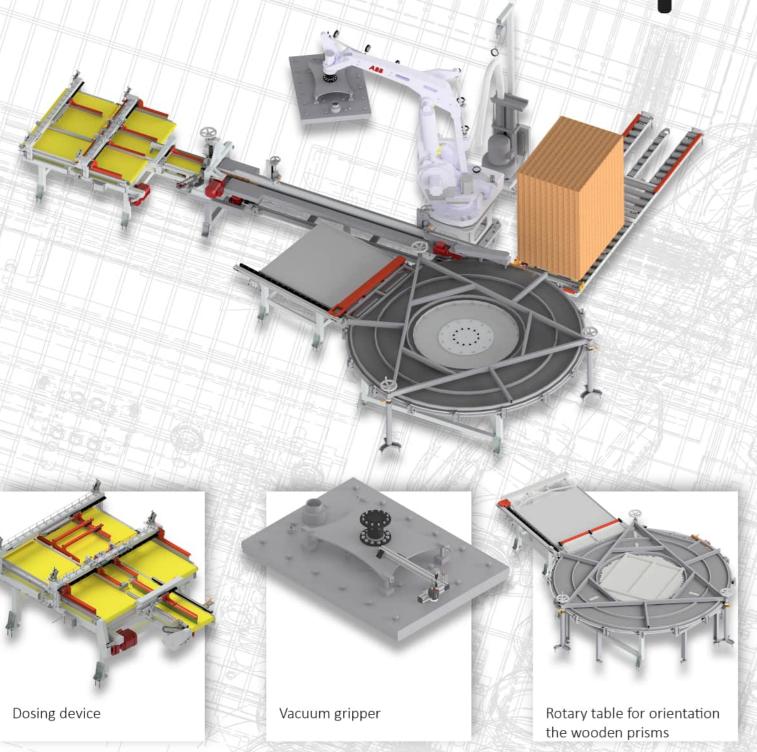
Costs savings.

The device replaced an operator who was doing monotonous work

DMPs technological know how

Solution for removing non-oriented ball joint sockets from a crate with using a 3D scanner and subsequent insertion into another











Lifter / elevator



The miling cell

Device description

The workstation is used for feeding wooden prisms into the following technology

The main benefit for customer

Costs savings

The device feeds corectly oriented wooden prisms in 0,5 second per 1 piece

DMPs technological know how

The device has replaced the operator who performs monotonous and exhausting work

Device description

The production line is designed for milling, component mounting, siliconizing, cooling and transport of PCBs

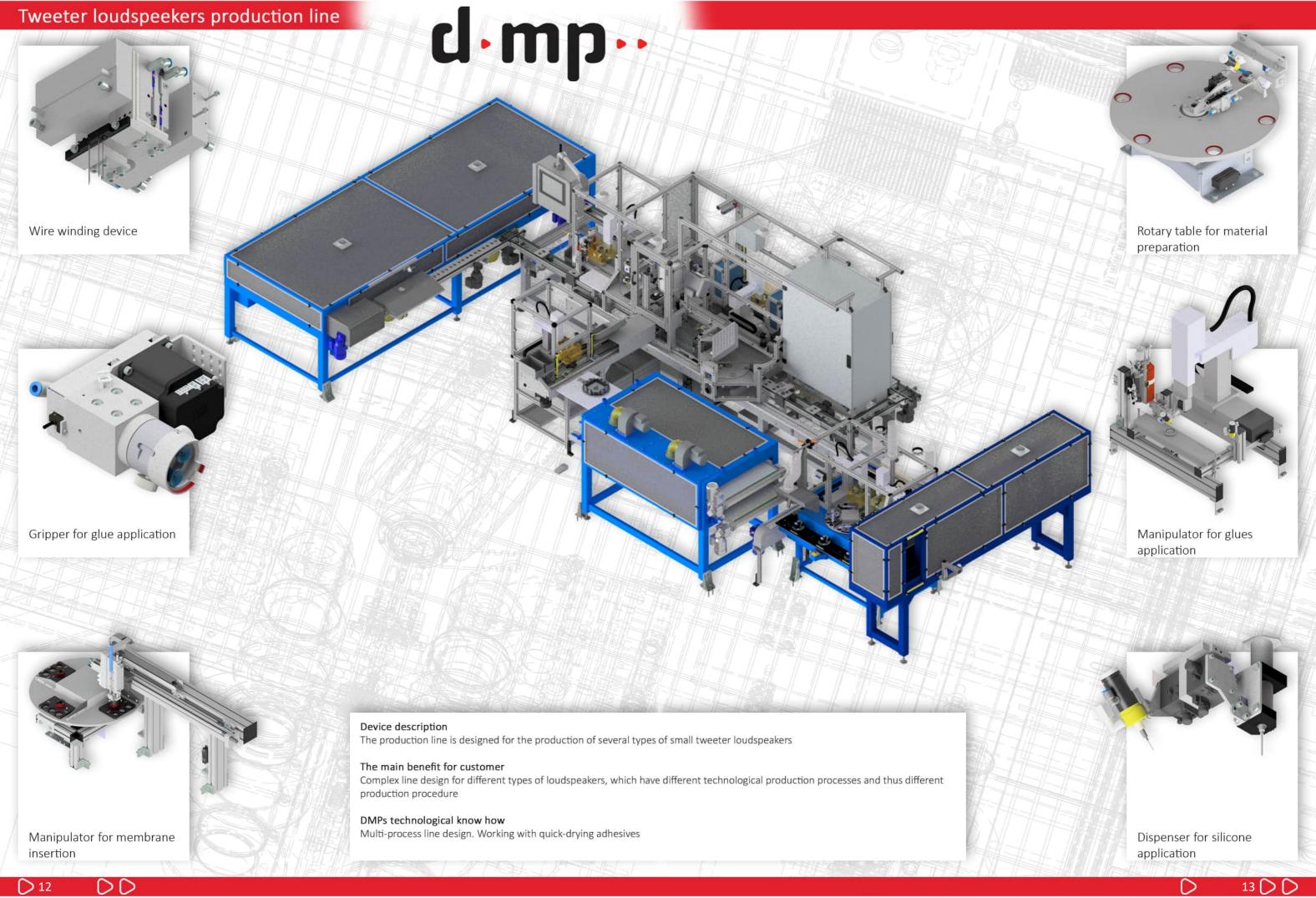
The main benefit for customer

New product process automation

DMPs technological know how

Production line layout optimisation

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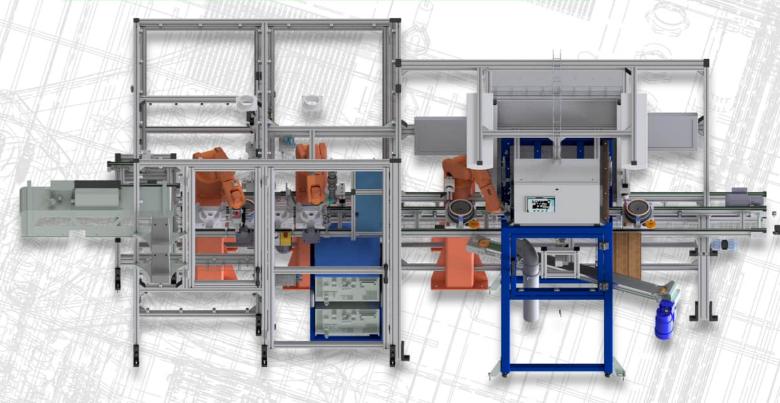










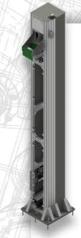




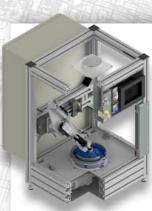
Vibrating conveyor with ejector



Gripper for inserting the parts into rolling mills



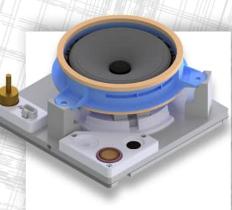
Pin lift to the conveyor



Glue application device



Dispenser for glues application



Speakers palette

Device description

Fully automatic line with robotic operator for pin production

The main benefit for customer

Automation of the new product production process with a 4.5 seconds cycle

DMP's technological know how

Quick change of pins in rolling mills Optimisation of the spatial layout of the line

Device description

The production line is designed to produce three types of loudspeakers in 5.5 second cycles

The main benefit for customer

The benefit to the customer was the access, communication and involvement in the offer. Together, the initial customer concept was innovated and improved

DMPs technological know how

Work with adhesives that dry in 30 seconds. Tweaking robot cycles in 5.5 seconds top. Automatic process control mechanisms

DD



Mechanical gripper Box stacker Vacuum gripper

Line for crates manipulation

Device description

The production line is designed to produce rotors for compressors using centrifugal casting technology at a cycle time of 6.8 seconds

Hlavný prínos pre zákazníka:

Design of a new production line concept with robots

First requirement was to make a product line based on the original technology

DMPs technological know how

New prototype of centrifuge. Working with rotors heated to 400°C and working with melted aluminium

Device description

The line is designed for palletizing and packaging of combi products

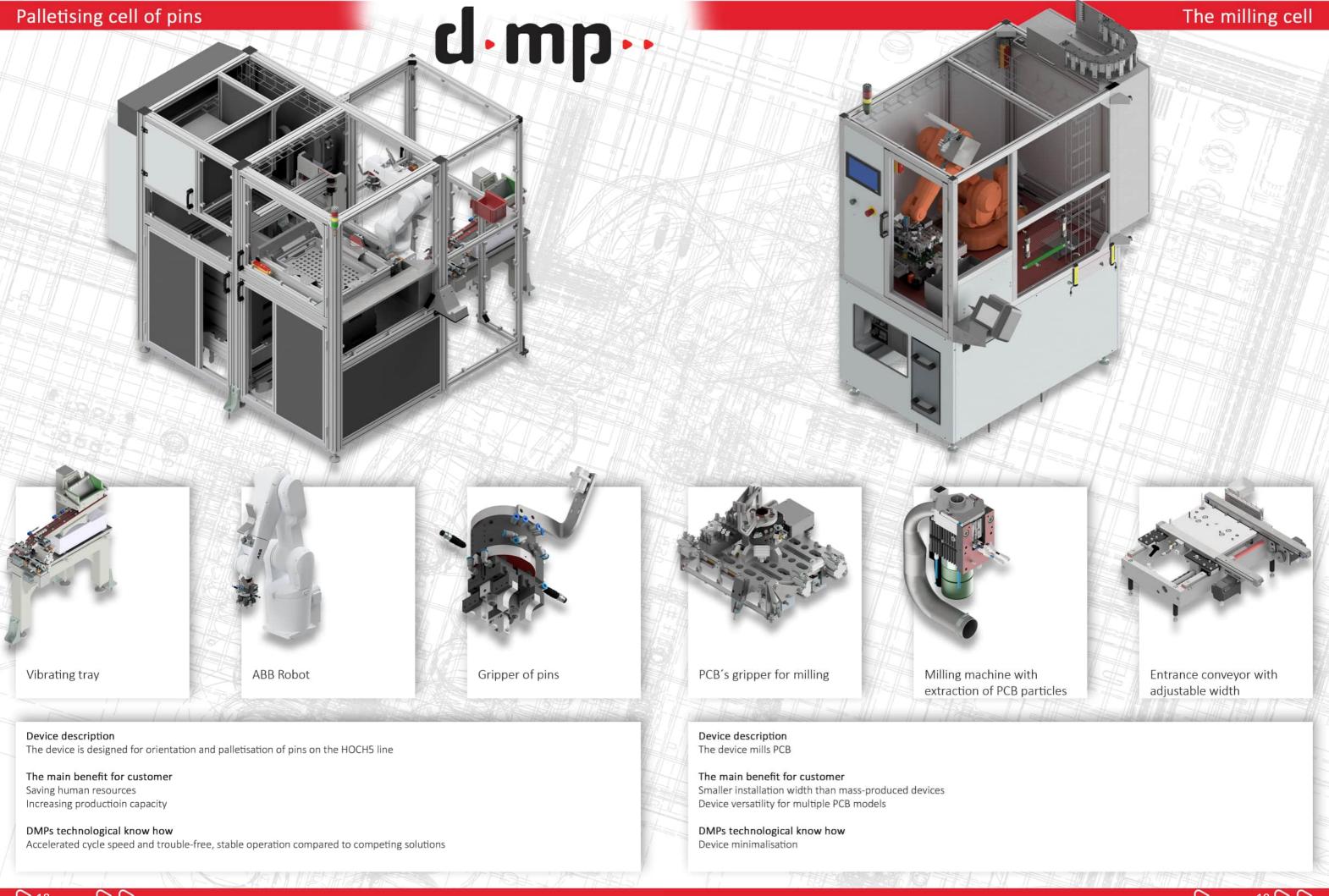
The main benefit for customer

Saving on human resources. Increase in production capacity. Efficient use of space.

DMPs technological know how

Streamlining the packaging process and warehouse management

Production of 30 different types of products



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