

**ourplant**

The Prime Micro Assembly Platform



OUR SOLUTION FOR YOUR POWER MODULE ASSEMBLY

**HÄCKER**  
Automation

# THINK BIG.

## Our idea of performance.

**MODULARITY**- Choose between more than 90 modules and configure your own personal solution for your power modules.

**FLEXIBILITY** - Produce your A series today and your B series of your high performance products tomorrow.

**EFFICIENCY**- Benefit from the oversized working areas of OurPlant machines and automate your entire manufacturing process in a single machine.

**CHANGE** - Test your processes in the laboratory and transfer them to high volume production.

**COMBINATION** - Combine different machines in line and realize a fully automated production.

OurPlant embodies a flexible production platform and represents the highest standards in power module assembly. This platform connects the experts of the industry and is the basis for forward-looking automation solutions in your branche.

Due to growing specialization and continually changing product requirements, you benefit from a unique machine concept. So you can produce your complex power modules with maximum efficiency of a single machine.

# VISIONARY.

## From 1 to 1 Million.

You want to develop an automated production and quickly start to produce your products in series? No problem for the OurPlant machine family.

Due to the modularity, the standardized interfaces and the real Plug&Produce capability, numerous function modules can be integrated and transferred into all machines.

Use the modular system and configure your own solution for your power module assembly.



Develop and test your processes of your power module manufacturing with the OurPlant Pocket



Improve your products with the OurPlant D1



Produce your power modules in higher volumes with the OurPlant XTec



Make your high-volume production as efficient as never before - with the OurPlant X3



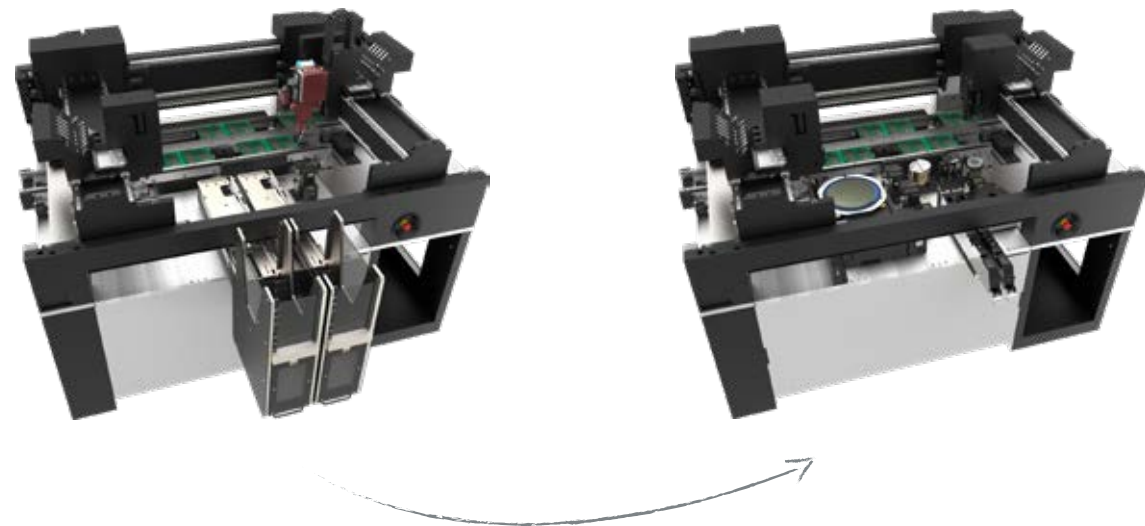
## MODULARITY.

Ready for your special requirements.

The modular machine concept of OurPlant enables you a high flexibility in your power module assembly. You can map the most different processes in combination by individually combining various function modules. The result is a maximum of diversity.

Thanks to the Plug & Produce function, the process configuration of your machine can be quickly adapted to new requirements. So you produce the A series of your Power Module today and your optimized B series tomorrow.

With OurPlant you are prepared for all future challenges in your industry.



SUPPLY AND HANDLING OF YOUR PROCESS MATERIALS

PUNCHING AND MOUNTING OF PREFORMS

DISPENSING OF ADHESION PROMOTERS OR SOLDER PASTE

ASSEMBLY OF IGBT'S FROM THE WAFER

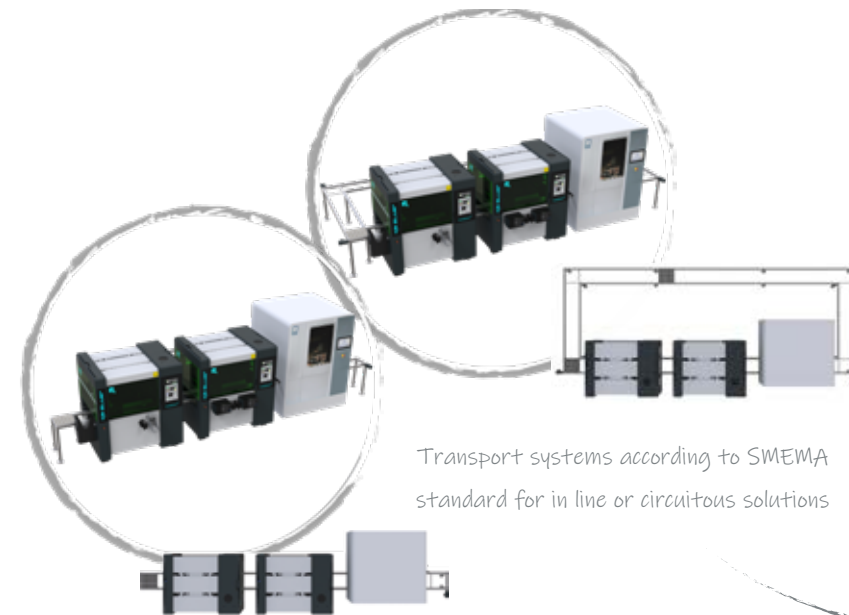
SOLDERING OF THE MOUNTED MODULES

# COMBINATION.

## Your Power Module Assembly in line.

At OurPlant you will find all the products to realize your entire Power Module Assembly in Line.

For example, you can use a circuitous transport system to achieve a maximum of efficiency. The full process is arranged in a loop, which has the advantage of being capable of fully automating the complete production process and reusing support materials.



Integration of complete machines of our partners

- ✓ UV and soldering ovens
- ✓ Automatic Optical Inspection Systems
- ✓ Wire Bonder
- ✓ ...

More than 20 ways to feed your components to the machine

- ✓ 12" Wafer system
- ✓ JEDEC Tray Feeder
- ✓ Tape Feeder
- ✓ Bowl Feeder
- ✓ Gel Pak ® Support
- ✓ ...



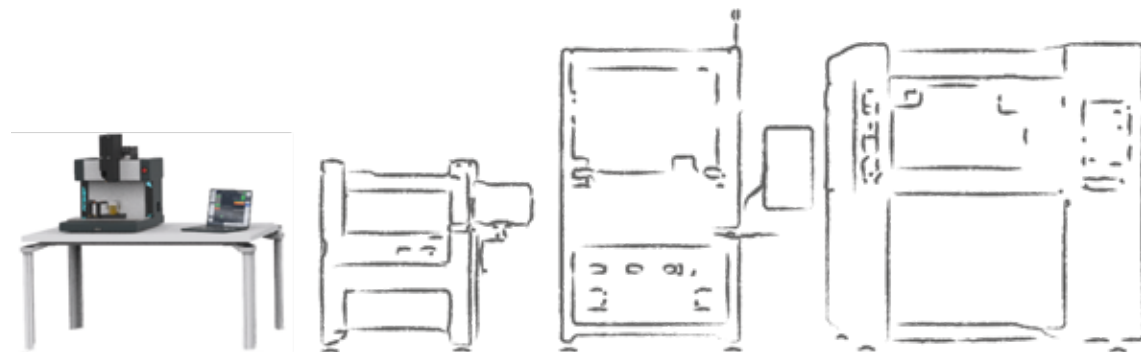


# TECHNOLOGY TO THE POINT.

## OurPlant Pocket.

With OurPlant Pocket you can work alongside and support your manufacturing process development and product development. The compact tabletop system enables you to implement semi-automated processes. It is an excellent possibility for testing, developing and validating your processes.

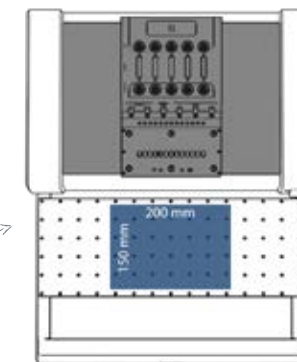
Thanks to the unique compatibility of the OurPlant platform, the machine profits from a large variety of modules. The product design and manufacturing technology can be optimized directly by the product developer through a wide range of applications, such as microassembly, microdispensing and inspection processes.



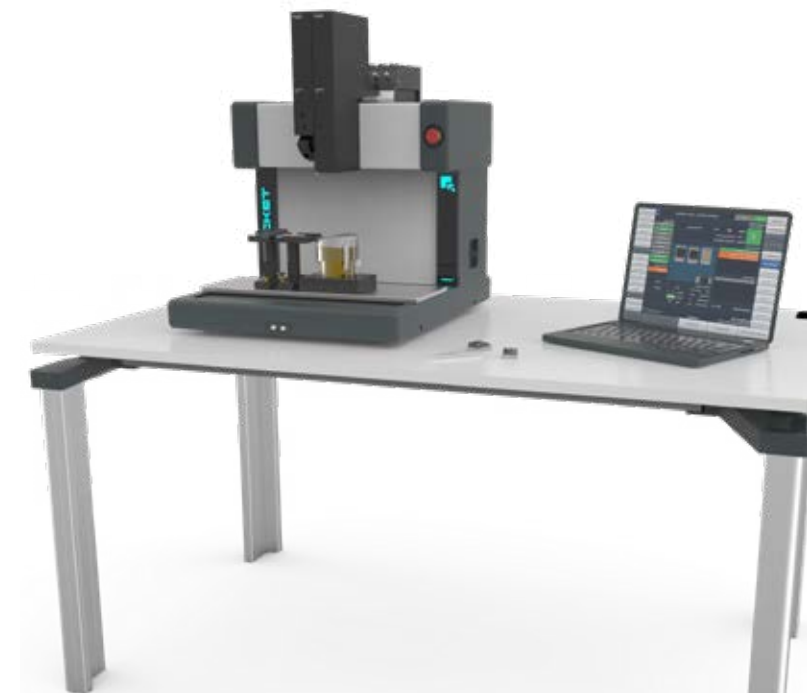
## To Sum It Up.

- 🌿 Dimensions (W x D x H): 550 mm x 660 mm x 600 mm
- 🌿 Machine weight: approx. 80 kg
- 🌿 Max. functional area (X x Y): 200 mm x 150 mm
- 🌿 Max. speed axes (X / Y): 250 mm/s
- 🌿 Repeatability:  $\pm 1 \mu\text{m}$

Machine interface for max. 2 processing heads each 50 mm wide



Max. functional area with 1 processing head

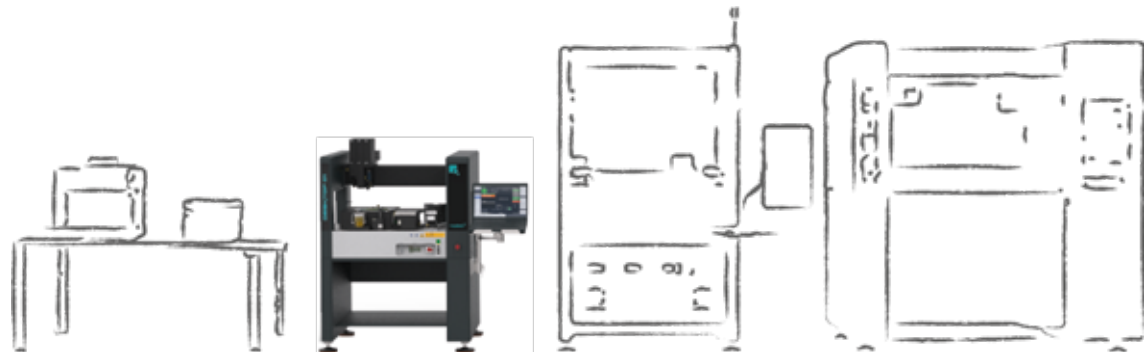


## CLOSE TO THE PROCESS. OurPlant D1.

The OurPlant D1 is the basis for the seamless transition of your products into serial production.

The open system allows you to interact intensively with the process. Technology and experts meet and have the opportunity to produce first products in series.

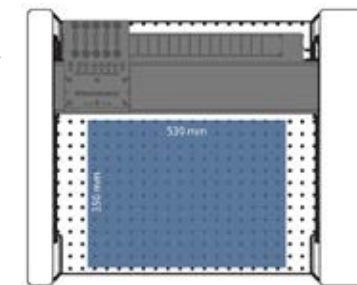
The modular machine concept guarantees the adaptability to future products and process requirements.



## To Sum It Up.

- Dimensions (W x D x H): 1000 mm x 800 mm x 1350 mm
- Machine weight: approx. 570 kg
- Max. functional area (X x Y): 530 mm x 350 mm
- Max. speed axes (X / Y): 250 mm/s
- Repeatability:  $\pm 1 \mu\text{m}$

Machine interface for max.  
5 processing heads each 50 mm wide



Max. functional area with 1  
processing head

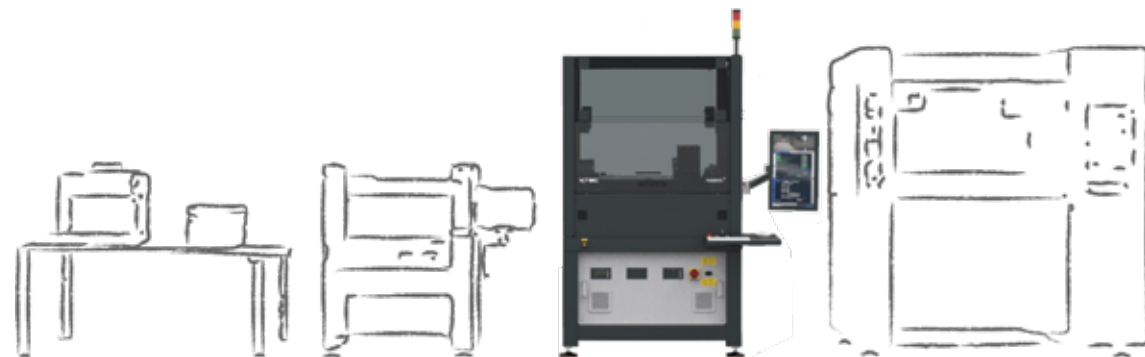


## COMPACT PERFORMANCE. OurPlant XTec.

The OurPlant XTec is the compact all-round solution for the series production of specific components. Like the OurPlant Pocket and OurPlant D1, the machine can also be equipped with various functional modules of the platform.

Depending on your process requirements, the OurPlant XTec can be used for a variety of applications. For example, laser safety glass offers an option for solving a wide range of microassembly challenges.

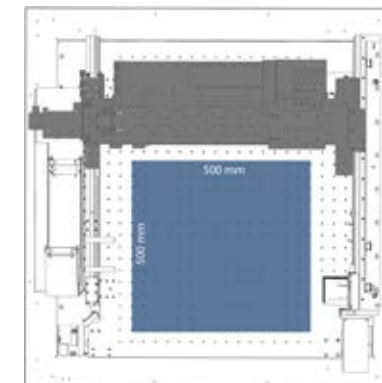
You will get a versatile and highly efficient microassembly machine. This solution provides the possibility to produce even the most technically demanding products in series in a very short time.



## To Sum It Up.

- Dimensions (W x D x H): 1735 mm x 1455 mm x 2400 mm
- Machine weight: approx. 1200 kg
- Max. functional area (X x Y): 500 mm x 500 mm
- Max. speed axes (X / Y): 1600 mm/s
- Repeatability:  $\pm 1 \mu\text{m}$
- Optionally with laser protection glass for infrared lasers

Machine interface for max.  
6 processing heads each 50 mm wide



Max. functional area with 1  
processing head



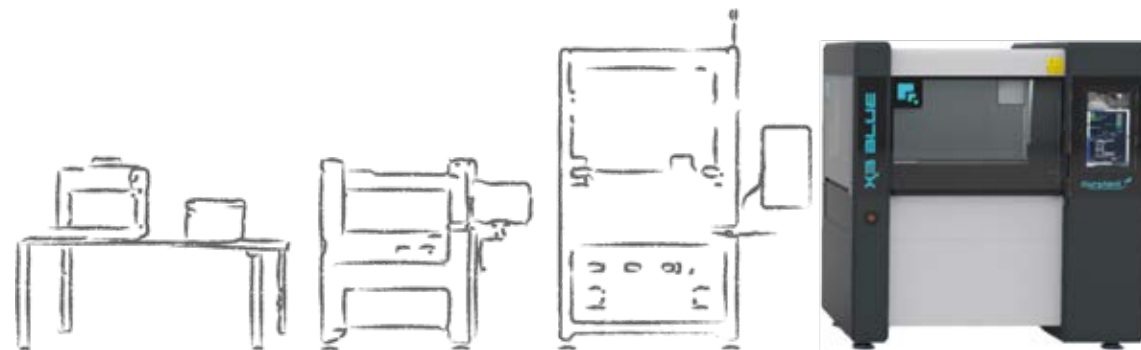


# HIGHEST EFFICIENCY. OurPlant X3.

With the OurPlant X3 you can produce your power modules with an efficient and compact high-precision machine. Because of its modularity, this system can also be flexibly adapted to your production processes. Your possibilities for serial production are unlimited.

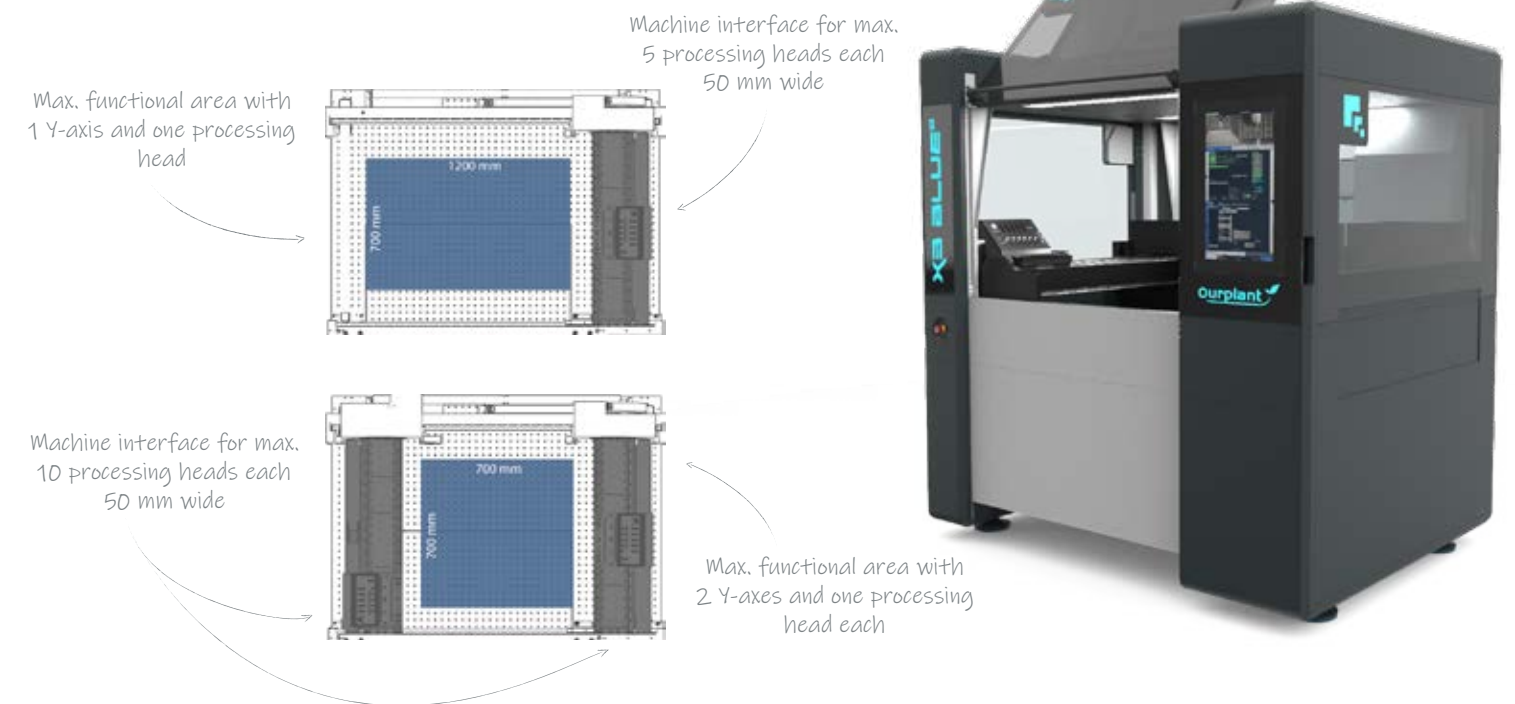
A maximum of working space and the option to equip the machine with two independently working Y-axes offers you the highest production efficiency.

Take the advantage of the flexibility of this multi-talent and prepare yourself for future challenges.



## To Sum It Up.

- Dimensions (W x D x H): 1900 mm x 1500 mm x 2059 mm
- Machine weight: approx. 3600 kg
- Max. functional area (X x Y):
  - one Y-Axis: 1200 mm x 700 mm
  - two Y-Axes: 700 mm x 700 mm
- Max. speed axes (X / Y): 2100 mm/s
- Repeatability:  $\pm 1 \mu\text{m}$
- Optionally with laser protection glass for infrared lasers



# INDIVIDUALITY.

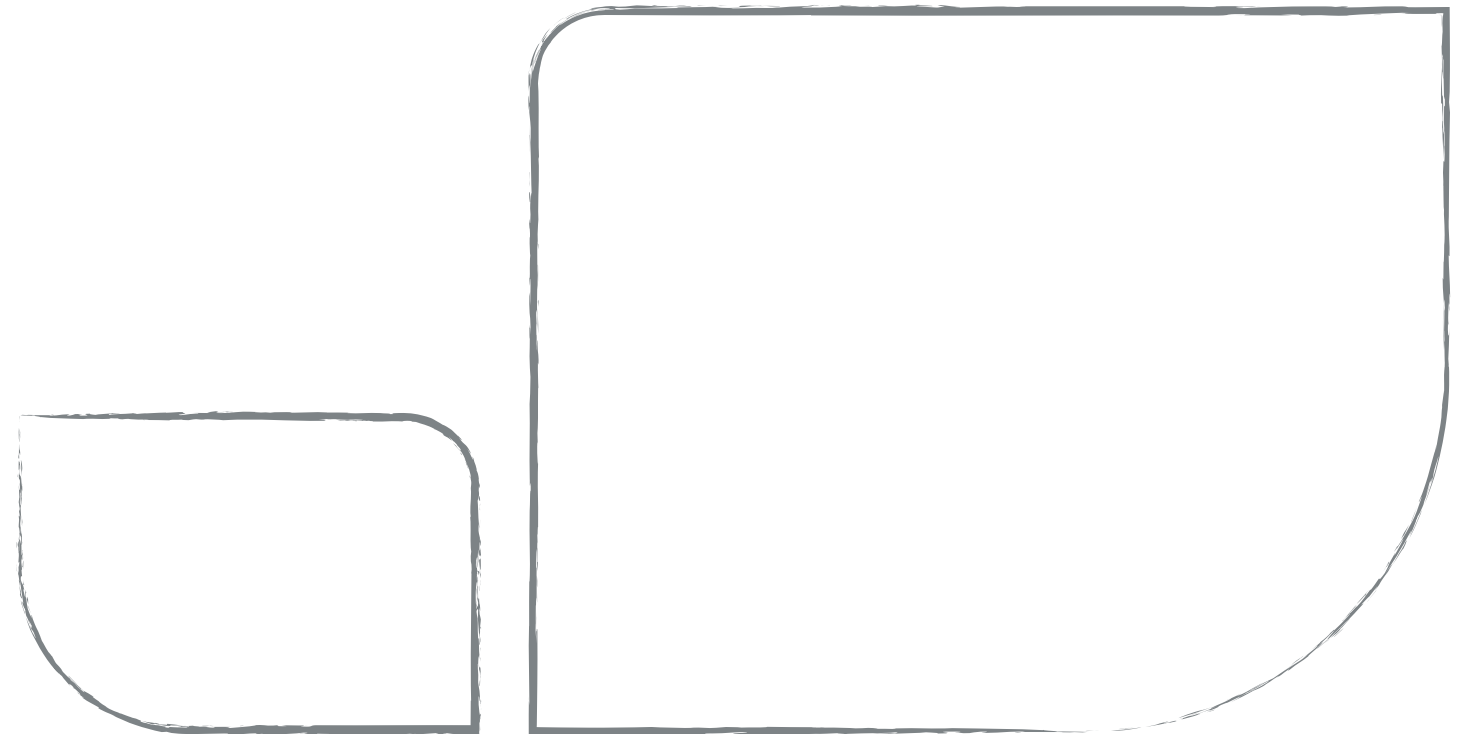
## Your personal solution.

Discover the OurPlant World.

OurPlant- The Prime Micro Assembly Platform.  
[www.ourplant.net](http://www.ourplant.net)

OurBase- Knowledge for The Micro Assembly Platform.  
[www.base.ourplant.net](http://www.base.ourplant.net)

OurStore- Market Place for The Micro Assembly Platform.  
[www.store.ourplant.net](http://www.store.ourplant.net)





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