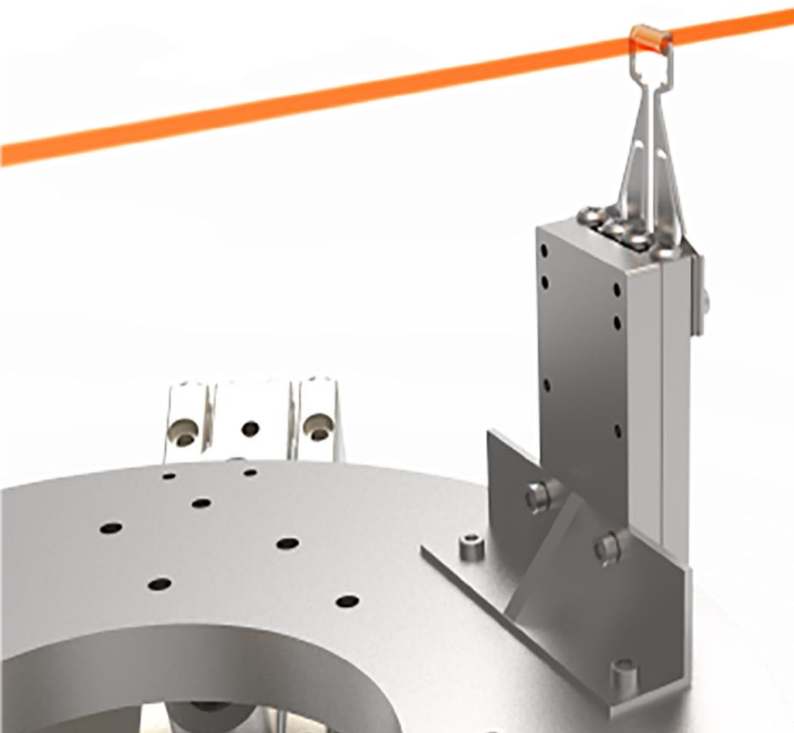
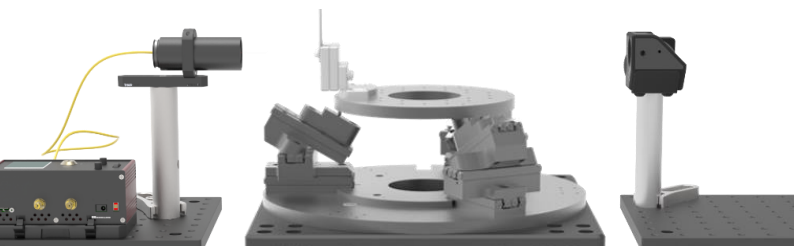


Technology Portfolio

Automated Photonic Assembly





Complexity meets maximum innovation.

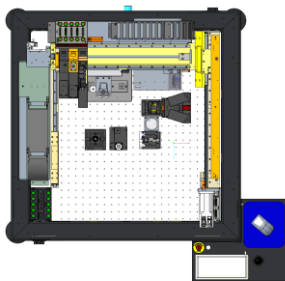
A system concept for automated optics assembly.

Meet the challenges of optical assembly with the perfect all-round solution for series production. With an OurPlant XTec laser, you benefit from maximum process diversity and flexibility. A wide variety of micro assembly, dispensing, laser soldering and active alignment applications can be mapped in combination.

Example configuration of a Passive Alignment Process



Machine: OurPlant XTec Laser














Layout: Passive Alignment

Budget price: Machine setup Passive alignment process



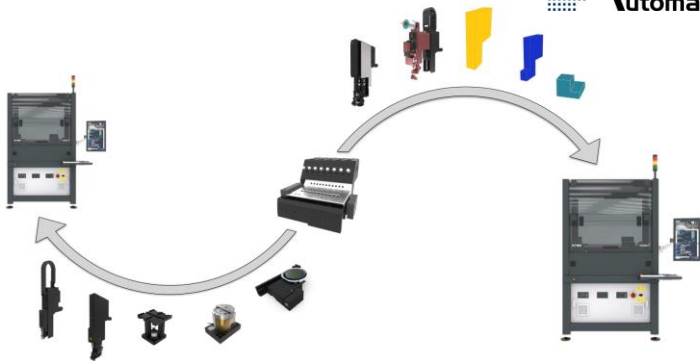
OurPlant XTec Incl. UV and laser protection glass

160.000,00 €

	CAMERA 3D	18.000,00 €	CAMERA SUBSIDE INSPECTION UNIT	10.500,00 €	
	PLACER P	51.500,00 €		PLACING EQUIPMENT TOOL ADAPTER TA- SL4	2.650,00 €
	PLACING EQUIPMENT TOOL CHANGING UNIT (4 TOOLS)	6.600,00 €		PLACING EQUIPMENT TOOL ADAPTER TA- R3	1.100,00 €
	DISPENSER D-PT CARTRIDGE EFD VALVE	19.800,00 €		DISPENSING EQUIPMENT NEEDLE INSPECTION UNIT	18.000,00 €
	DISPENSING EQUIPMENT DRIP TRAY 300	600,00 €		DISPENSING EQUIPMENT DIRECT DISPENSING UNIT	16.200,00 €
	FEEDING EQUIPMENT GEL-PAK® SUPPORT	5.400,00 €		HELIOTIS INTERFEROMETER	49.200,00 €

Subtotal	359.550,00 €
19% VAT	68.314,50 €
Subtotal	<u>427.864,50 €*</u>

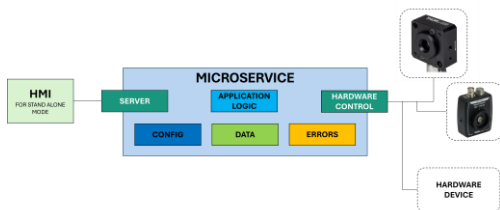
* Equipment price excl. engineering costs



Maximum flexibility for your process design.

The open and modular machine platform is the perfect tool when it comes to implementing your extensive processes. Consoles with standardized interfaces allow you true plug & play capability of all modules on all systems.

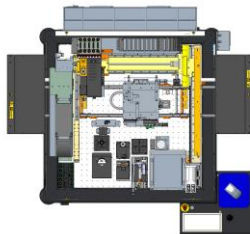
The decision to configure a machine is not a final one. You remain flexible with the connection of new modules or the integration of specially developed modules.



Integration of your own process modules and systems

With the connection of MicroServices, highly individual customer systems can be docked onto the machine system. Reasons for this can be the validation of measuring systems or production technologies that have already been carried out, which are further developed and operated by the machine operator. This allows further systems to be connected.

Budgetpreis: Maschinen-Setup Active Alignment Prozess



Produktionsanlage: OurPlant XTec Laser

Raummodell: Active Alignment Prozess



**Serienfertigung OurPlant XTec
Inkl. UV- und Laserschutzglas**

160.000,00 €



CAMERA 3D

18.000,00 €



CAMERA (2D HORIZONTAL)
(3,5 X 4,3) MM

10.500,00 €



CAMERA (2D HORIZONTAL)
(3,5 X 4,3) MM

11.280,00 €



PLACER HR

110.000,00 €



METROLOGIE UND KONTAKTIERSTATION

anwendungsspezifischer Preis



DISPENSING EQUIPMENT
DIRECT DISPENSING UNIT

16.200,00 €



DISPENSING EQUIPMENT
DRIP TRAY 150

350,00 €



DISPENSING EQUIPMENT
DISPENSER (HORIZONTAL)

25.000,00 €



FEEDING EQUIPMENT
GEL-PAK® SUPPORT

5.400,00 €



FEEDING EQUIPMENT
VACUUM SUPPORT (4 INCH)

6.000,00 €



FEEDING EQUIPMENT
CONVEYOR

16.200,00 €



FEEDING EQUIPMENT
WAFFLE PACK SUPPORT (1X 2")

850,00 €

Zwischensumme

379.780,00 €

19% MwSt.

72.158,20 €

Gesamtsumme

451.938,20 €*

*Equipmentpreis exkl. Metrologie, Engineeringkosten

Konfiguriere deine eigene Anlage unter:

www.mikromontage.shop

Ein Shop der Häcker Automation GmbH. Mehr Infos zur Mikromontage auf unserer Website

mikromontage.shop

MIKROMONTAGE MODULE KONTAKT

**MASCHINEN, MODULE UND ZUBEHÖR
FÜR DIE MIKROMONTAGE.**

Preisauskünfte und Produktinformationen zu jeder Zeit und an jedem Ort.

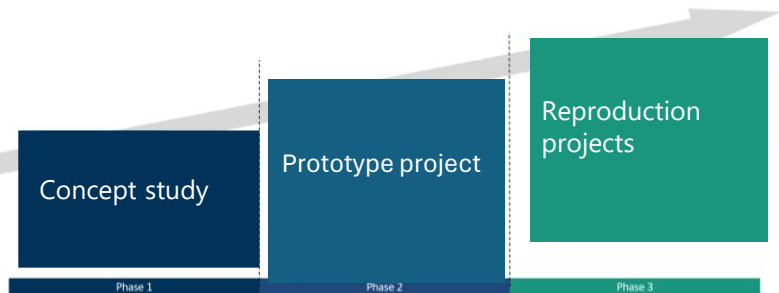
[JETZT ENTDECKEN](#)

Project structuring: How we work together.

What is absolutely essential for us?

Aspects of project design:

- Structuring of development services and automation implementation
- Initial economic feasibility studies
- Rough price and time orientation
- Definition: Starting the project



Phase 1 - To the point:

- Detailed concept
- Extended feasibility studies
- Economic feasibility studies

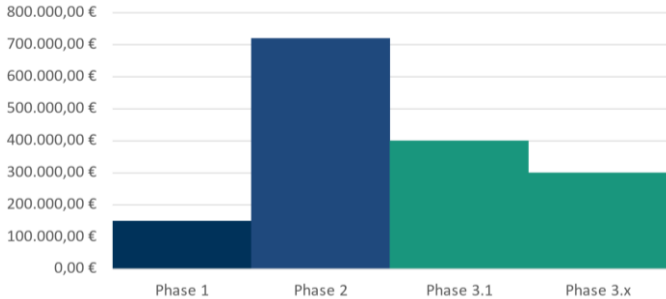
Phase 2 - Getting to the point:

- Development of new skills for the implementation of your production task
- Detailed process development
- Production of fully-fledged production equipment as the first prototype implementation

Phase 3 - Getting to the point:

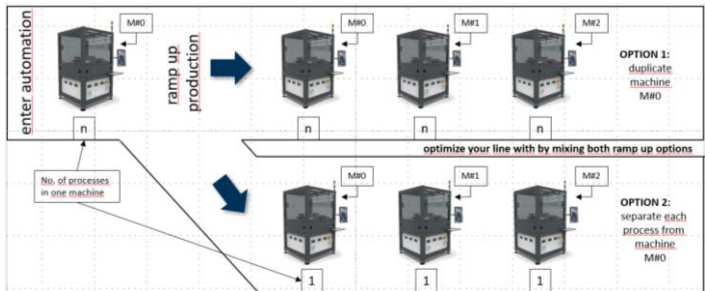
- Extended optimization of the new capabilities
- Reproduction of the optimized production equipment

Profitability analysis and investment costs.



In the course of full automation, the costs per machine project fall considerably after an initial prototype project. In the reproduction phase (phase 3), the net prices for the provision of production equipment depend on optimization requirements.

Optimize your production.



Machine and module specifics active and passive alignment processes



OurPlant XTec, incl. UV and laser protection glass

- Dimensions in mm (WxDxH)/ Weight: 1.735 x 1.455 x 2.400 mm/ ca. 1.200 Kg
- Max, functional range in mm (X,Y) 500 x500
- 2-axis gantry system (X, Y)
 - Repeat accuracy positioning X-axis: Deviation $\leq \pm 5 \mu\text{m}$ @ $C_p \geq 1,67$
 - Repeat accuracy positioning Y-axis: Deviation $\leq \pm 5 \mu\text{m}$ @ $C_p \geq 1,67$
- Processing heads with integrated Z-axis
- UV protective screens, optionally with laser protective screens
- Software and control with integrated industrial PC
- Interface with 10 electrical connections (5x CAN, 5x Ethernet) for accommodating processing modules up to a total width of modules up to a total width of 150 mm (can be extended to 300 mm using an adapter plate)

Inspection



CAMERA 3D

- Inspection head with optical 3D detection and automatic position correction
- Calculation of the exact 3D position
- Correction of deviations from the target position using error compensation algorithms
- Dimensions in mm (WxDxH)/ Weight: 49 x 261 x 341 mm/ 4,8 Kg
- Travel range in Z in mm: 150
- Lens type: Macro lens
- Image field in mm (W x H): 7,2x5,4
- Camera resolution in μm : 7,6

Placing



PLACER HR

The Placer HR (Hexapod Rotation) was specially developed for active alignment tasks. In addition to a travel range of 150 mm in the Z direction, it has a movement range of $\pm 50^\circ$ around the axis of movement. For the fine positioning and alignment of optical components, a hexapod with six axes and movements in all 6 degrees of freedom has been integrated.