

Ultimate

The ultimate flexible manufacturing cell



How it works

Introducing an unmanned fully automated shift into your production stream is your fastest route to increased profitability, offering your company a dynamic future proof edge over your competitors. The Ultimate has been developed to deliver multi-tasking lights out production and flexibility into a diverse array of businesses, serving a myriad of industries.

Imagine an employee that is never sick, never tired, never on holiday and can quickly and effortlessly be taught new tasks and duties. Whether it is loading and unloading products, pallets and fixtures into your machine, or added value robotic operations bespoke to your requirements between (un)loading cycles and duties; this system is destined to be your most profitable and flexible production asset, delivering a rapid return on your future proof investment.

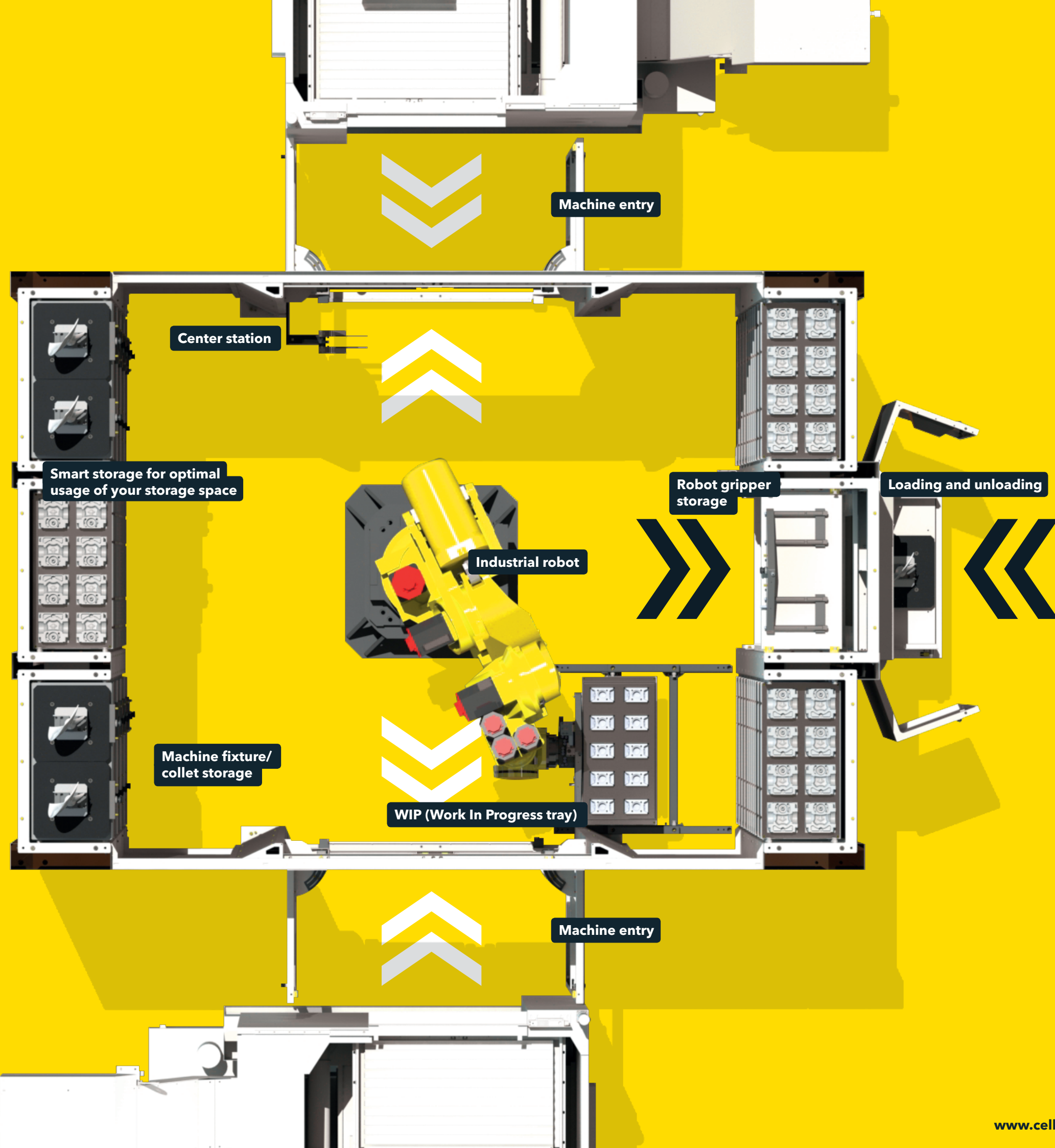
Due to its modular design it can be quickly expanded in the field to accommodate new work and growth in your business. With the product-handling module, you never have to interrupt the machining process ever again when supplying workpieces. The workpiece system keeps track of current supply, discharge and upcoming workpieces. The pallethandling module increases production efficiency at any time and with any product. It ensures a consistently effective means to set up workpieces. The unimaginable number of possibilities in mixture of products and pallets is handled and tracked by the system. This results in supreme stock flow and planning. The system can even integrate a second machine when your future production needs demand so.

Working with Ultimate

Two main workflows:

Workflow 1: Fast loading and unloading of production.

Workflow 2: Fast execution of production orders by robot and machine(s).



The ultimate winning automation

The combination of product and pallet handling allows you to combine batch sizes of 1 and >1000 in your automated production.

Intuitive HMI

Easy to use touchscreen

The ultimate user experience

Rapid re-tasking for new work.

Smart storage

Optimal usage of storage space, adjusted to your production need.

Utilizing Fanuc robots

With high speed, precision and reliability: 99,99% uptime.



Expendable

Grows with your workload & business.

Ergonomic system design

Extremely accessible loading, for loading and unloading of products, pallets and fixtures.

Fit for mounting of pallets

Compatible to a large variety of sizes and types

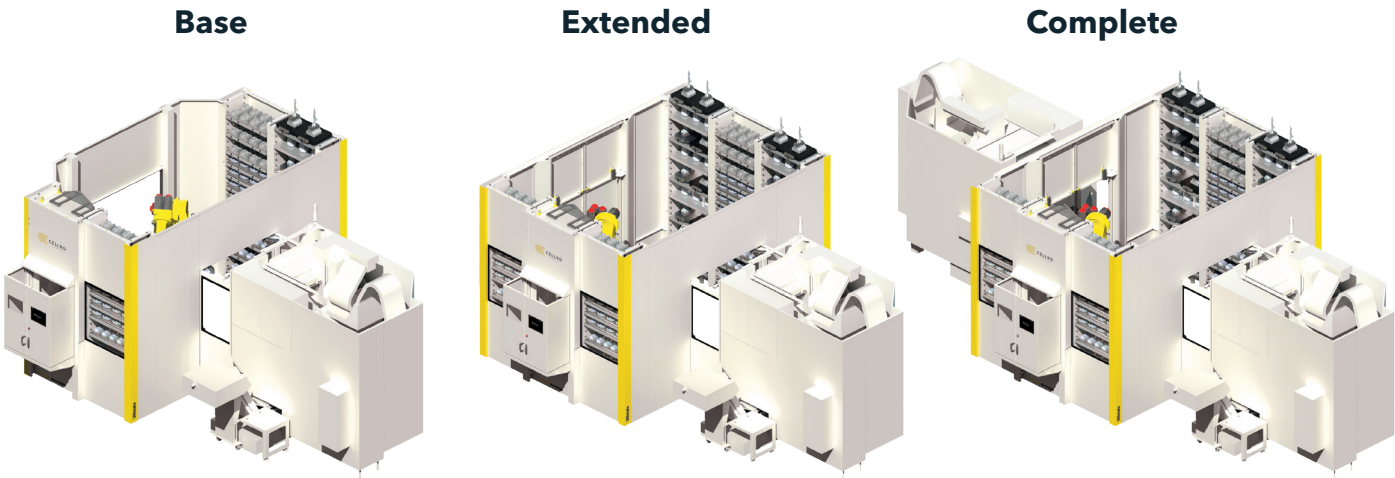
Fit for loading and unloading by crane.

Efficient use of valuable floorspace

Minimum footprint with maximum storage capacity.

Configurations

The Ultimate flexibly grows along with your automation needs. We offer three levels of size, which can be expanded at any time. The Ultimate's unrivalled flexibility is made possible by its modular construction and advanced software. The ground-breaking software and options are specifically designed to adjust and grow with your business.



Cellro Cell Control

Orchestrate your business with Cellro Cell Control rather than miss-out on responsiveness and valuable (reusable) data.

- Intuitive dialogue control, easy page design and navigation logic for the ultimate user experience on easy to use touchscreen.
- Flexible rapid re-tasking for new work. Intelligent wizards to guide you through the configuration of your work. See your results in one overview, no complicated multi-steps necessary.
- Responsive software design, any inconsistencies are detected immediately and communicated to your operator, greatly increasing efficiency and reducing error.
- Seamless integration with your CNC machine(s) into your production environment.
- Powerful data management and data visualization. The most complete, integrated, and secure solution for fast cell production.
- Built-in security with different user log-in levels.

Technical Data

General

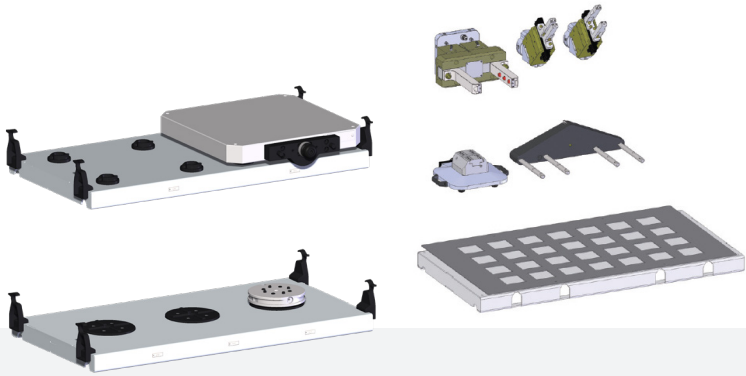
Storage sizes	3.000x1.000mm 3.000x2.000mm
Tray sizes	825x425mm
Not pitch	100mm
Pallet sizes □	400x400mm 320x320mm 240x240mm etc.
Pallet sizes Ø	200mm 148mm 120mm etc.
Pallet types	Schunk 3R systems Erowa etc.
Workpiece types	Sawn parts Semi-finished parts Casted parts etc.
Workpiece sizes on pallet	Max□160x160mm MaxØ160mm
Workpiece types on standard inlay	Max□160x160mm MaxØ160mm



Smart Storage

An illustration of the ultimate flexibility in the mixture of pallets and products for fast and flexible planning of your production.

Top shelves for large pallets for fast single piece trials or small series. Smart shelves with storage positions for 2 pallets or 1 pallet in the center for oversized products. Trays are fit for numerous pallet types. Product trays with different product sizes smartly stacked for optimal storage space and flexibility.



All module variations unite effortlessly with the software and help you to get the most out of your machine.

Ultimate Base

System Dimensions	5.100 x 2.500 x 3.000mm
Max. Handling Weight Robot	165/210/270 kg
Free Machine Access	✓
Functions	Workpiece Handling, Fixture Exchange, Pallet Handling, Tool management
Machines	1
Dimensions of Storagecabinet	859 x 425 x 3.000 mm
Trays in Storagecabinet	7 pallettrays or 8 producttrays
Dimensions Product Tray	800 x 400 mm
Max. Dimensions Product on Pallet	400 x 600 mm
Software	Cellro Cell Control

Ultimate Extended & Complete

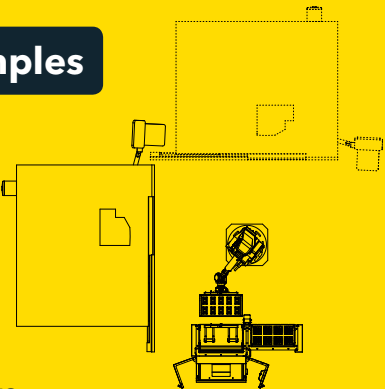
System Dimensions	5.100 x 3.200 x 3.000mm
Max. Handling Weight Robot	165/210/270 kg
Free Machine Access	✓
Functions	Workpiece Handling, Fixture Exchange, Pallet Handling, Tool management
Machines	1 or 2
Dimensions of Storagecabinet	859 x 425 x 3.000 mm
Trays in Storagecabinet	7 pallettrays or 8 producttrays
Dimensions Product Tray	800 x 400 mm
Max. Dimensions Product on Pallet	400 x 600 mm
Software	Cellro Cell Control

Options

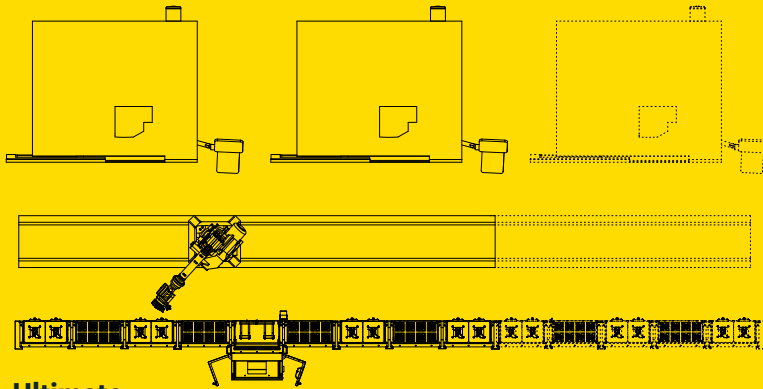
Choose your modules now or later fit to your business automation roadmap.

- Machine Collet Exchange™
- Machine Fixture Exchange™
- Tool-management
- NC-File management
- Advanced NC-Machine control (communicating macro parameters)
- 2nd CNC-machine

Examples



Ultimate Loading, storage cabinet and 1/2 machines.



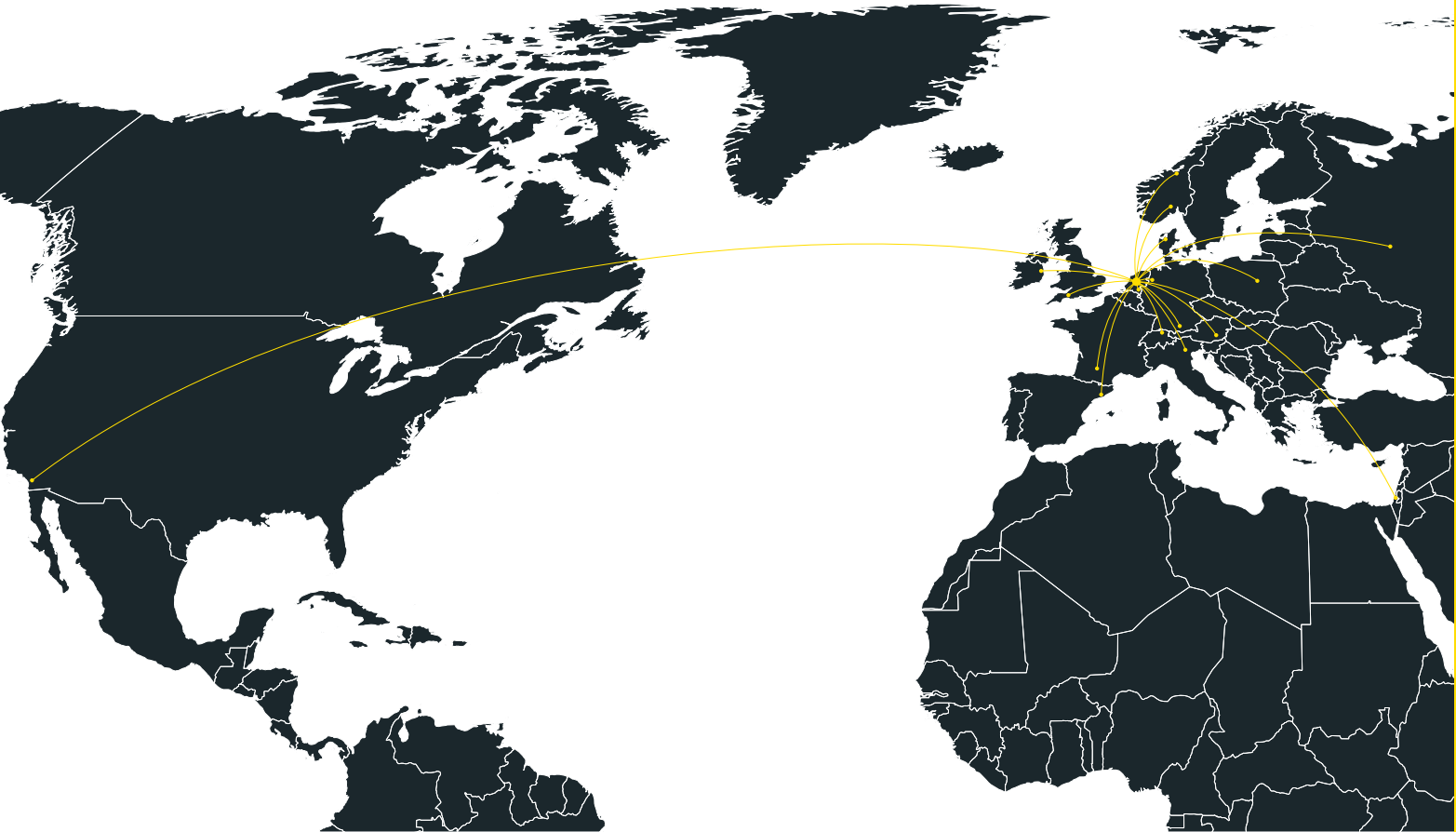
Ultimate Robot track, loading, storage cabinets and 2 or more machines.



The Cellro Network

When you purchase a Cellro system, you can rely on our strong international network. We serve our customers locally through local procurement and service points in your area. This allows you to benefit from our expertise everywhere and ensures the transfer of knowledge.

Our local distributors sell our standardized solutions such as the Ultimate worldwide. In addition, a large number of renowned machine builders have chosen Cellro as their automation system in order to meet the market demand for ready-made combinations of machine and automation.



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About Cellro

Cellro is a first-class developer of robot automation for the machining industry. Our company is based on the idea that your automation must be future-proof. After all, automation lasts for decades. Our automation solutions are in line with the growth of your company, your future production and the automation roadmap within your company with your employees. We have designed our automation flexibly. This means that a Cellro system, such as the Ultimate, can easily be adapted to your needs, so that your profits can continue to increase in the coming years. Our products are your key to profitable automation,

now and in the future. With 15 years of experience and close cooperation with our customers, our modular design and smart software are the basis of these flexible automation solutions. This gives you a high return on your investment, now and in the future, as well as a future-proof, risk-free investment.

**Your Machines,
More Profitable.**