

About Cellro

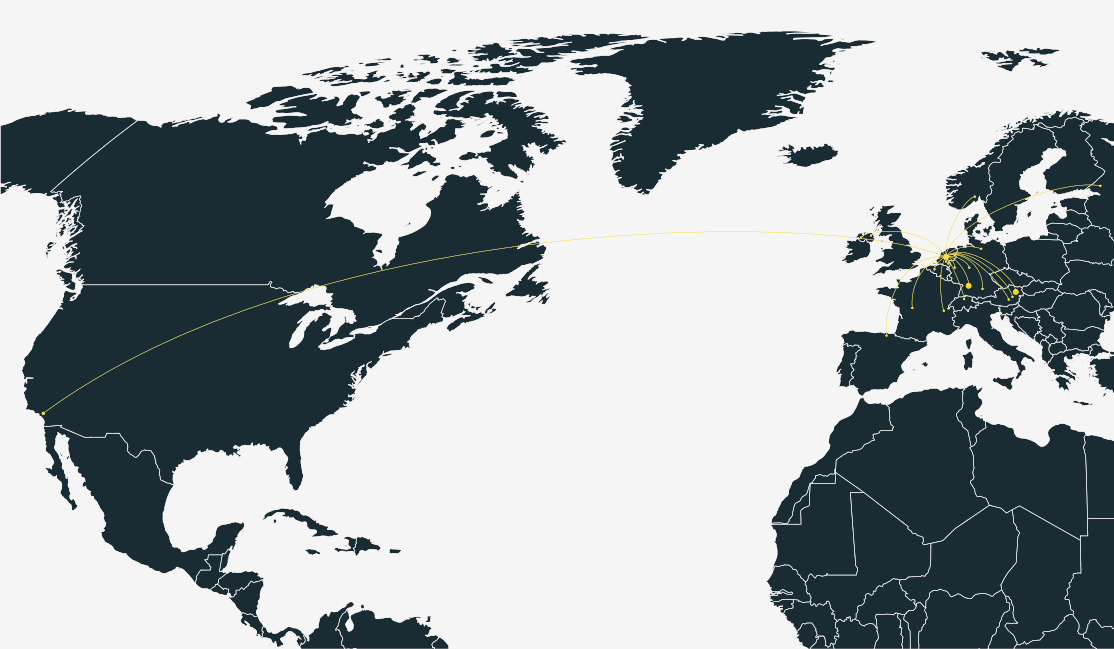
Cellro is a first class developer of robotic automation for the machining industry. The company is well known for offering the most future proof automation solutions available today. By combining a modular construction and intelligent software, a Cellro system will increase your profits for years to come.

From its founding in 2004, Cellro immediately adopted the modular philosophy it's so well known for today. Users shouldn't allow rigid automation systems to confine their flexibility. Instead, our modular technology allows you to switch functions

and add-ons at any time. You benefit from the reliability of tried and proven technology along with full flexibility for future use.

Cellro uniquely allows producers of large as well as small and mid-scale series to reduce labor costs, increase hourly output and grow overall production. All with supreme certainty no other automation brand can offer.

Your Machines, More Profitable.



Cellro B.V.
Koningsshot 41
Veenendaal
3905 PR
The Netherlands

T. +31 (0) 318 627 100
F. +31 (0) 318 627 101

info@cellro.com
www.cellro.com



Toolchanger

Powered by:





Toolchanger - Benefits

- ✓ **High-speed** placement of tools in machine's tool transfer
- ✓ Unrivalled in capacity: stores **over 800 tools**
- ✓ **Minimal floor space** requirements
- ✓ **Reliable**, due to **proven concept**
- ✓ **Cost-efficient** energy consumption
- ✓ Efficient and **flexible tool arrangement** due to smart robot
- ✓ Compatible with **every machine** control system, configured as **slave** of CNC machine
- ✓ **Hassle-free integration** within your production process
- ✓ **Swift return on investment:** 2-3 hours employment a day is sufficient
- ✓ Possible to increase **tool capacity**
- ✓ **Remote support**

How it Works

Cellro Toolchangers powerfully unite robot driven tool changing technology and incredible storage capacity. All on a minimal floor space.

The Toolchanger offers the highest tool capacity for its required floor space available in the market today. The system allows for storage up to 800 individual tools, including extraordinarily heavy and long tools.

The Toolchanger provides fast switching times due to the high dynamics of the robot. Tools are always conveniently arranged. The robot places tools directly in the machine's tool transfer and

can immediately change to the spindle or the tool magazine of the machine. This sums up to a great time advantage.

To make the integration in your production hassle-free, a Toolchanger can be combined with every machine control system. It's the most efficient all-round tool solution.

Maximum Storage, Minimum Floor Space

Configurations

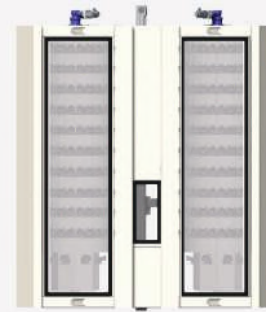
These are the three configurations:

Handling + 1x Carousel

Handling + 1x Carousel + Loading

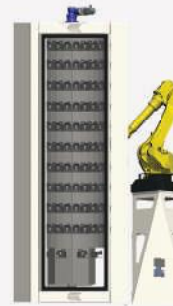
Handling + 2x Carousel + Loading

Handling = Robot or Linear System



Example: Double Rotation Toolchanger with Linear Handling system

Configuration	Handling + Loading + 2x Carousel			
Total Height (mm)	3000	3400	3700	4000
Effective Height (mm)	2580	2980	3280	3580
Handling Weight Robot (kg)	20 (35)	20 (35)	70 (50)	70 (50)
Tools per carousel layer (#)	36 (BT40/HSK63)	36 (BT40/HSK63)	28 (BT50/HSK100)	28 (BT50/HSK100)
Floor surface area (m ²)	7.3	7.3	7.3	7.3
Tool Storage Space (m ²)	24.0	27.2	28.4	30.6



Example: Single Rotation Toolchanger with Robot Handling system

Configuration	Handling + 1x Carousel			
Total Height (mm)	3000	3400	3700	4000
Effective Height (mm)	2580	2980	3280	3580
Handling Weight Robot (kg)	20 (35)	20 (35)	70 (50)	70 (50)
Tools per carousel layer (#)	36 (BT40/HSK63)	36 (BT40/HSK63)	28 (BT50/HSK100)	28 (BT50/HSK100)
Floor surface area (m ²)	3.5	3.5	3.5	3.5
Tool Storage Space (m ²)	12.0	13.6	14.2	15.3