



Future-proof. Your High-Mix Production.

Built with Intrinsic Intelligence™.

Automate the loading of your CNC machines with innovative AI-powered robotics solutions.



MaxAI powered by
Intrinsic Intelligence™

Easy Installation.



CNC machining is complex. CNC automation shouldn't be.

The MaxAI is adaptable, user-friendly, and specifically designed for increasing machine utilization and high-mix manufacturing. It offers seamless integration with your CNC machine and, thanks to state-of-the-art sensor technology, is set up at your facility in a few days - ensuring your team is production-ready in no time.

Easy to use.



No robot programming is necessary to teach new parts. Control your CNC loading via an intuitive user interface. Place your components flexibly directly on the work surface. Thanks to a digital twin and AI-powered perception components are detected then automatically gripped and inserted into your machine's vise with force control. This enables rapid changeover without the use of fixtures.

Fast Return on Investment.



Keep your CNC loading running around the clock. By reducing downtime between workpiece changes, the system increases productivity and pays for itself quickly, keeping your company competitive in the global market.



Technical Data



Robot Manipulator.

FANUC M-10iD/12

Operator Interface.

Intuitive HMI optimized for rapid part changeovers

End-Effector System.

Schunk modular gripper (single or dual configuration) with automated finger-changing station

Vision Hardware.

Industrial 2D GigE Vision camera (Basler)

Force-Torque Sensing.

Schunk Multi-Axis Force-Torque Sensor

Workholding.

Schunk Precision Vise (pneumatic)

Safety Architecture.

Integrated FANUC Dual Check Safety (DCS) / ISO-compliant hardware safety

Industrial Networking & I/O.

EtherCAT, Ethernet (TCP/IP), IO-Link und Standard-Digital-/Analog-I/Os

CNC Machine Integration.

FANUC Robodrill (compatible with multi-vendor CNC platforms)

AI- & Software Platform: Intrinsic Intelligence™

IntrinsicOS - operating system for end-to-end solution lifecycle, from solution-building to operation and ongoing updates.

AI capabilities such as perception, automated robot motion, grasp planning, and sensor-guided insertion skill. Includes the Intrinsic Vision Model (IVM), an industrial-grade foundation model for pose estimation, detection, and tracking which reasons directly with CAD models to deliver zero-shot, sub-millimeter accuracy for new parts without requiring a custom training.

Includes a digital twin environment for building, installing, and managing solutions in simulation.

Robot payload max	Approx. 12 kg
Robot reach max	Approx. 1,800 mm
Cell dimensions (L x W x H)	1,600 mm x 2,500 mm x 2,300 mm
Cell weight	Approx. 1,400 kg
Drawer dimensions (L x W)	600 mm x 1,200 mm
Drawer payload max	200 kg
Loading side handling	Manual
Machine side handling	Robot

Scan to get more information:

