



Robotic System Integration and Investment Consulting

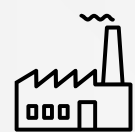
in **2013**

Founded and Located
at **Technology Park**

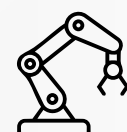


What We Do

Robsen Robotics develops
end-to-end robotic automation
systems for metal manufacturing,
from engineering to commissioning.



15+
Installation
Sites



200+
Projects

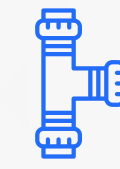


6
Countries

Industries We Serve



HVAC



Fluid Power
Components



Aerospace
& Defense



Automotive



White Goods



Our Capabilities Software Development

System Manager HMI



Web-based HMI

Cross platform - Multi device

A web-based HMI that lets you monitor and manage all key signals of the robotic cell from one screen.



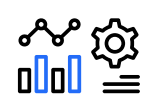
Live Cell Status

See the real-time status of all stations.



Production Data

All production metrics on one screen.



Fast Downtime Diagnosis

Find stop causes remotely.



Component Life Tracking

Log maintenance & replacement cycles.

IROVISION



IROVISION Matching

Vision software for machine tending and quality control, part detection, pick guidance, and inspection.



Fixture-Free Picking

Detect and pick parts in any orientation.



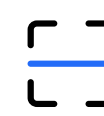
Matching & Training

Fast setup via 2D & CAD matching.



Inspection & Verification

Inline feature & defect inspection.



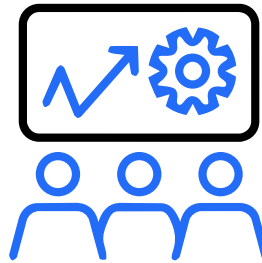
Traceability (OCR/Code Read)

Read, log, and track codes.

Our Capabilities

Training & Enablement

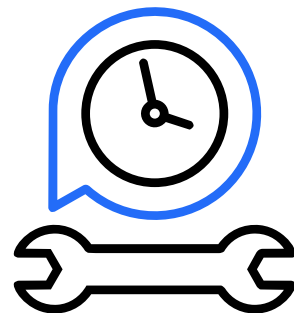
Knowledge transfer that turns your team into confident cell owners.



- 1 Robot Operation & Programming
- 2 Fixture & EOAT Design
- 3 IROVISION Modules
- 4 Simulation Workshops
- 5 Maintenance Training

Service

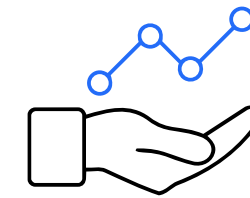
Designed for uptime, supported for the long run.



- 1 Spare Parts Availability
- 2 Remote Support Ready
- 3 Preventive Maintenance
- 4 Service Plans & Subscriptions
- 5 On-Site Intervention
- 6 Service Assessment

Investment Consulting

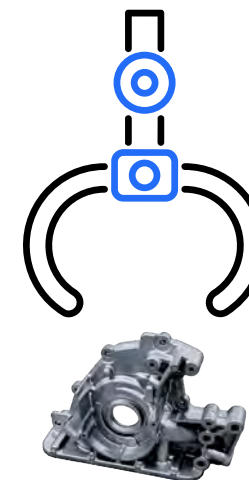
We help manufacturers take the right first step, technically and financially, before investing in robotics.



- 1 Process & Habit Analysis
- 2 Goals & Investment Perspective
- 3 Concept Options
- 4 ROI & OEE Impact
- 5 People & Organization Readiness

EOAT Engineering

Designed for complex geometries and harsh shopfloor realities - in-house.



- 1 Complex part handling
- 2 Materials & surface considerations
- 3 Gripper & finger design options
- 4 Advanced Gripping Technologies

*Examples of complex parts we handle across various machine-tending projects.



Why IROCUBE ?

Vision-powered robotic machine tending

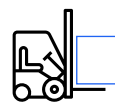
A compact, single-platform robotic cell for flexible CNC tending, integrated conveyors, fixture-free handling, and operator-friendly operation.



Vision-powered picking (IROVISION)



Small Footprint Cell



Single-Platform Architecture



Fast Commissioning



Operator-Friendly Operation



Remote Service



From simple load-unload to multi-operations

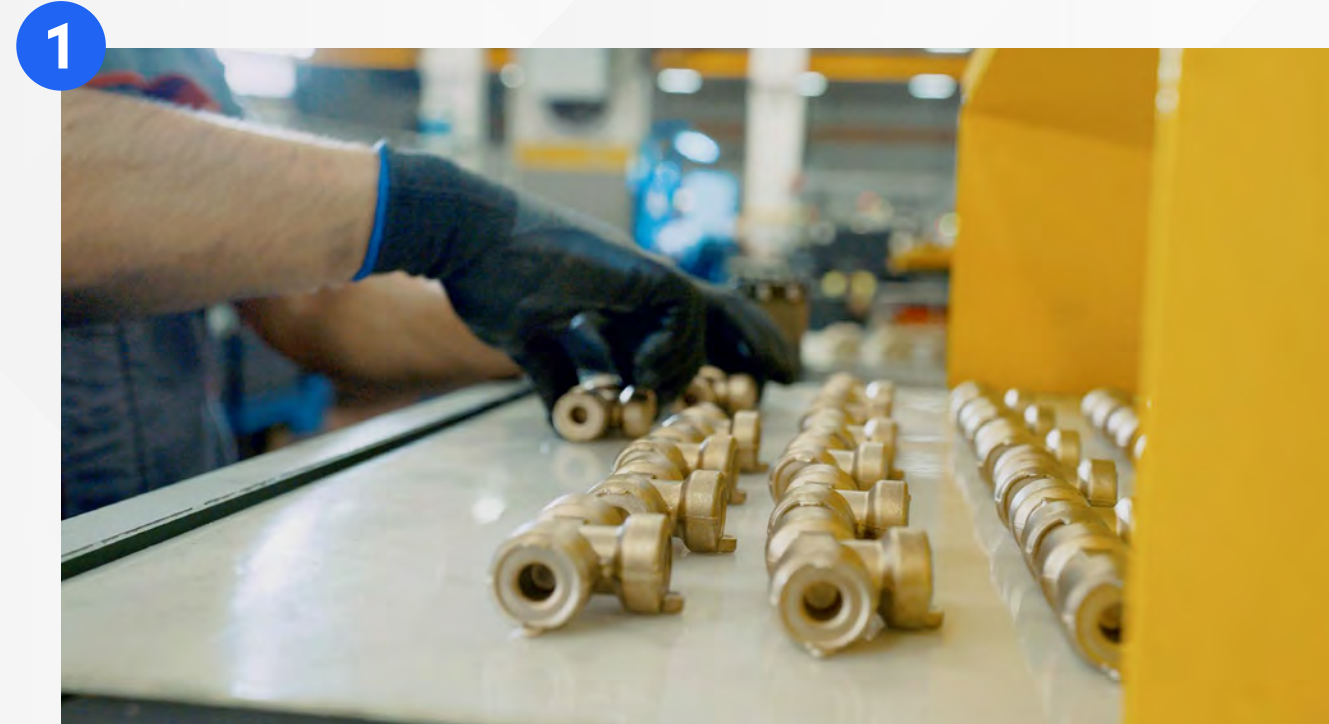
IROCUBE Vision-Powered

How it works

- 1 Drop parts on the conveyor no dedicated fixture.
- 2 Select the part model in IROVISION. Train once.
- 3 The robot picks reliably from random orientations.

When Parts Change

- New part? No fixture, no rework—just select a new model.
- No fixture manufacturing or storage cost.
- Fast changeovers between part variants.
- Works for short runs or long runs (50 to 5000+).
- Less setup effort, more uptime.
- Ergonomic part presentation - no precision loading.
- High-mix flexibility without complexity.



Feed parts on the conveyor - no dedicated fixtures



The robot picks reliably from random orientations.

IROCUBE Single Platform & Fast Setup

Single Platform

Plug-and-play commissioning with standardized, proven modules.

Remote support ready for faster ramp-up and troubleshooting.

Fast Setup

All-in-one platform: Robot, conveyors and cabinet in one cell.

Machine-side footprint: fits the CNC's neutral working area.

Advantages

-  Save floor space.
-  Move the cell when the layout changes.
-  Lower relocation and transportation cost.
-  Start production sooner.



IROCUBE

Three production dynamics, Three IROCUBE concepts



PLUS Series

Drawer-based compact cell

Fast, compact, and cost-effective for space-limited, quick-deploy setups.

cost-effective

drawer based picking



MF Series

Conveyor-based flexibility

Built for complex geometries and expandable process steps.

complex geometries

flexible cell

handles multiple variant parts

vision-guided picking

machining centers



TF Series

Drawer-based compact cell

Fast, compact and cost-effective for space-limited, quick-deploy setups

turning lathes

vision guided picking

IROCUBE Plus Series Compact Cobotic Cell

Compact, fence-free automation you can deploy across the shopfloor with collaborative safety built in.



Key Specifications

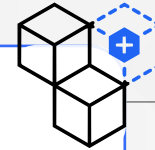
- Footprint (L×W× H)**
1200 × 800 × 1150 mm
(enclosure only, cobot excluded)
- Drawer count**
Configurable: 2 drawer (expandable)
- Drawer pitch / spacing**
Adjustable to match part height and access
- Drawer usable area**
450x600 mm

Vision-Guided Handling for Complex Geometries

01 Configurable Robot Options

Select the right robot for your payload and application needs.

Easily configurable for different reach, payload, and cycle time requirements.



02 Enclosed, Operator-Friendly Design

No additional fencing required.

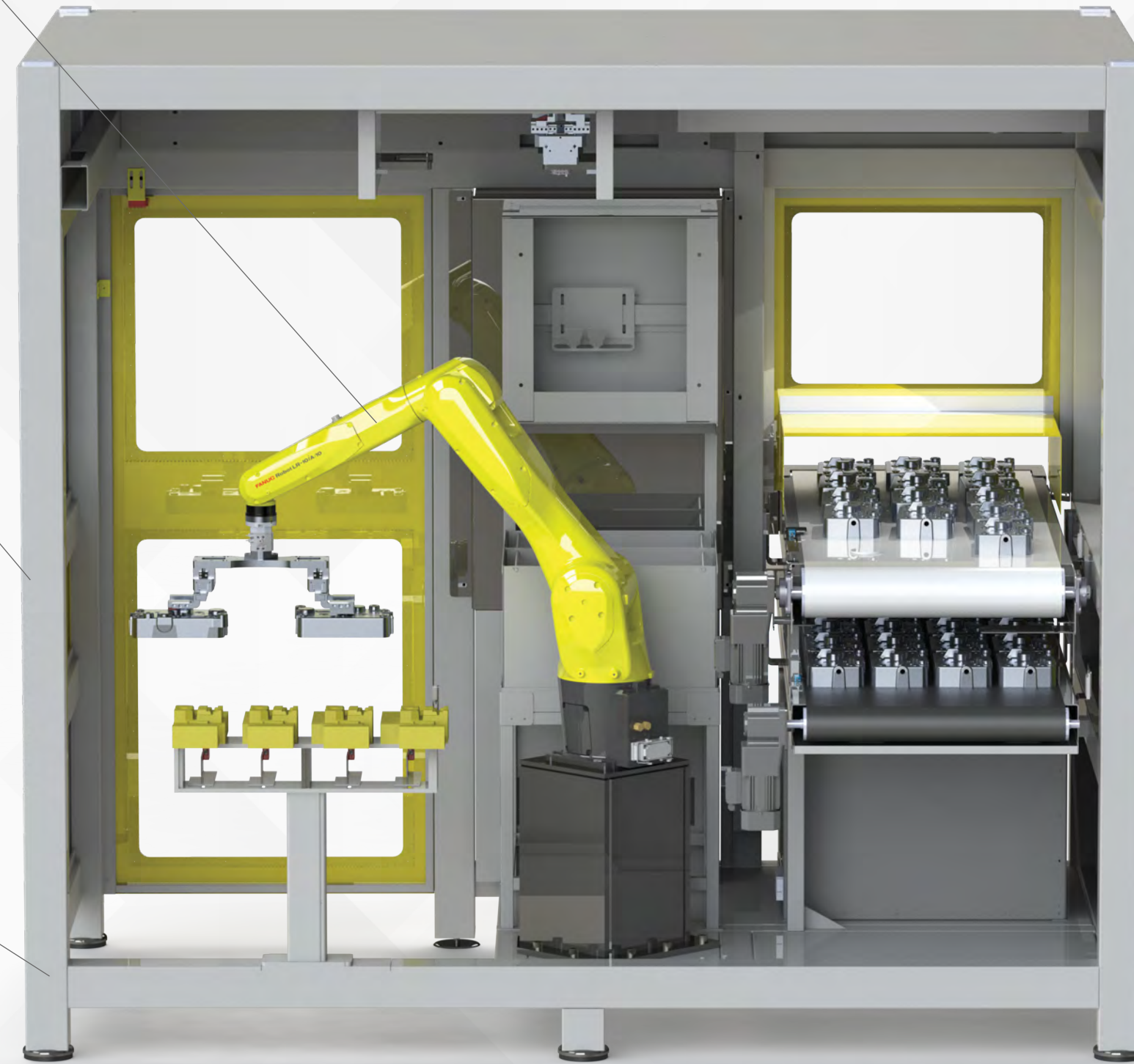
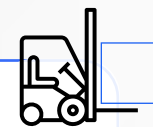
Designed to fit naturally into the machine environment with built-in safety



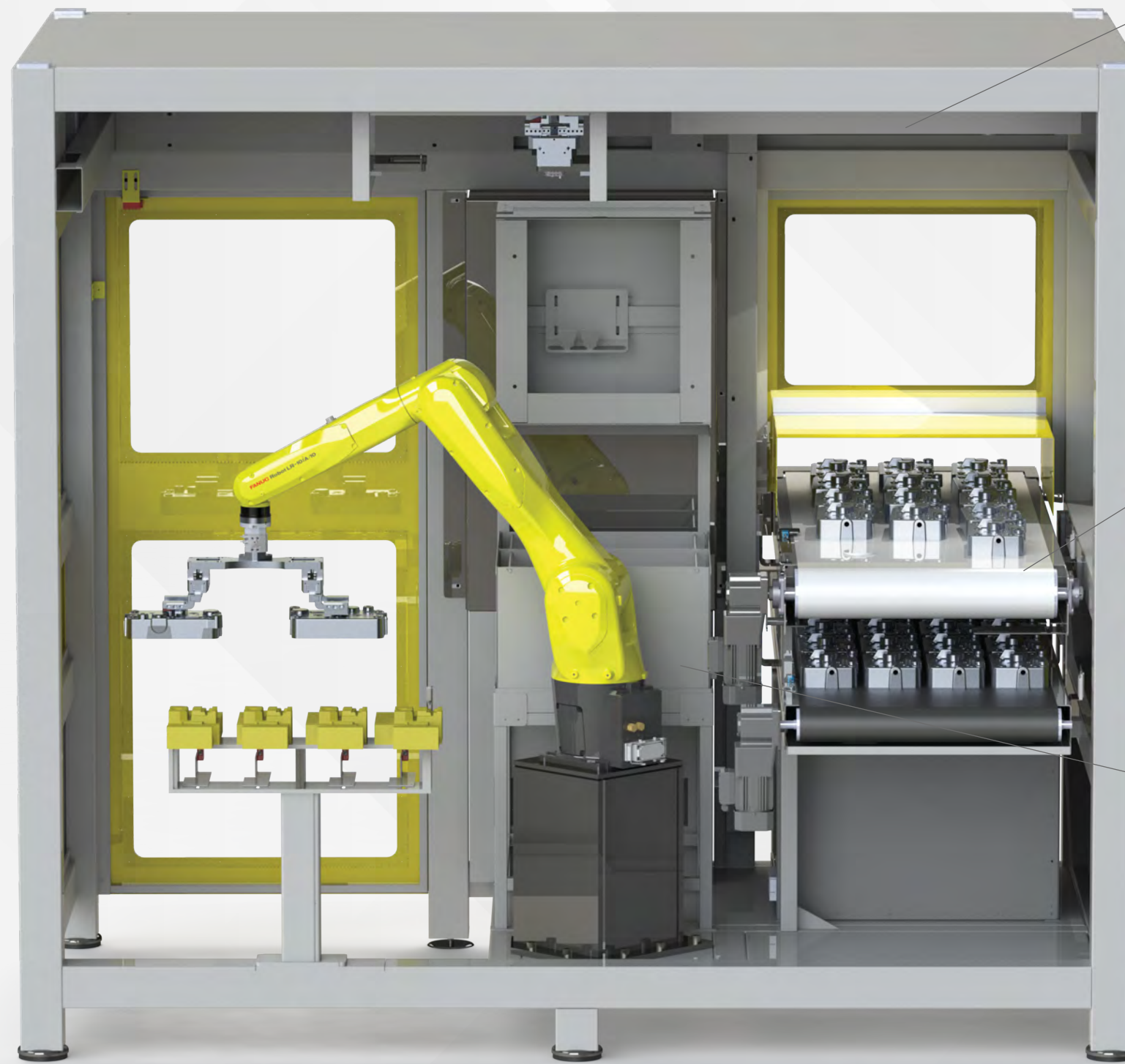
03 Single Platform Design

All components integrated into one compact and unified system.

Plug & play structure ensures fast installation and minimal setup effort.



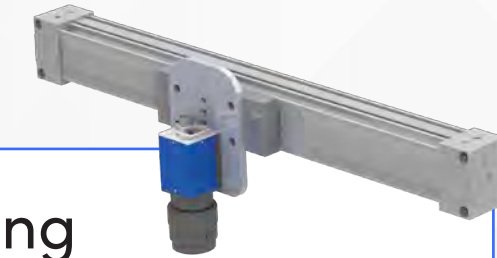
Vision-Guided Handling for Complex Geometries



04 Vision-Guided Picking

Reliable part picking across varying positions and orientations.

IROVISION detects the position and guides the robot for reliable picking.



05 Flexible Conveyor System

Drawer-free and fixtureless design that supports complex parts

Enables fast changeovers for high-mix production.



06 Modular Stations Scalable System

Easily expandable with integrated stations such as washing, testing, and laser marking.

This flexible platform evolves alongside your process.



Key Specifications

1

Footprint (LxWxH)

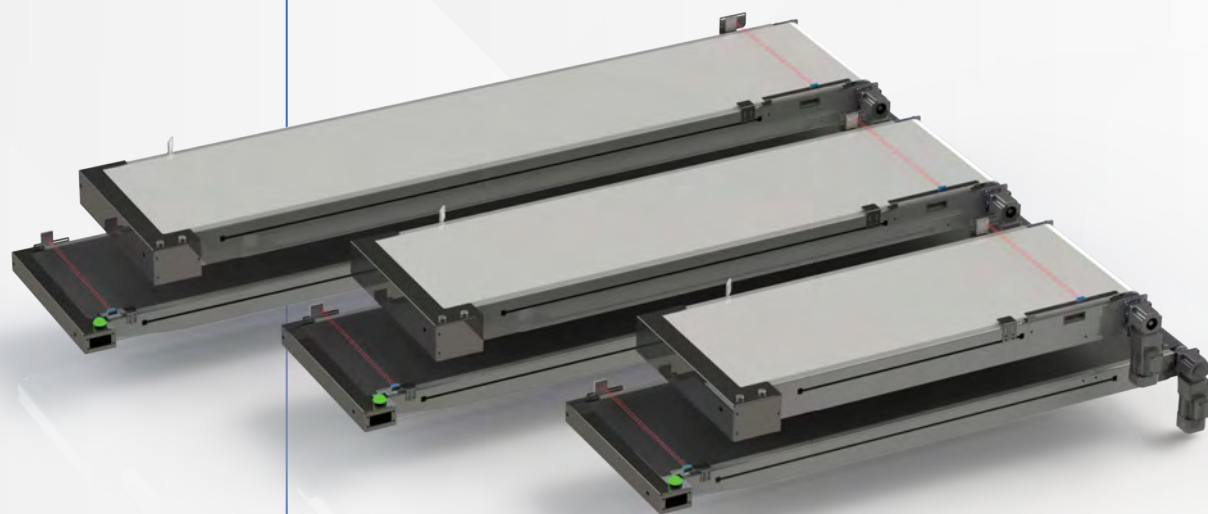
2400x2600x2400 mm
(incl. standart conveyors)

2

Standard conveyor sizes

Load: 1800 × 600 mm
Unload: 2200 × 600 mm

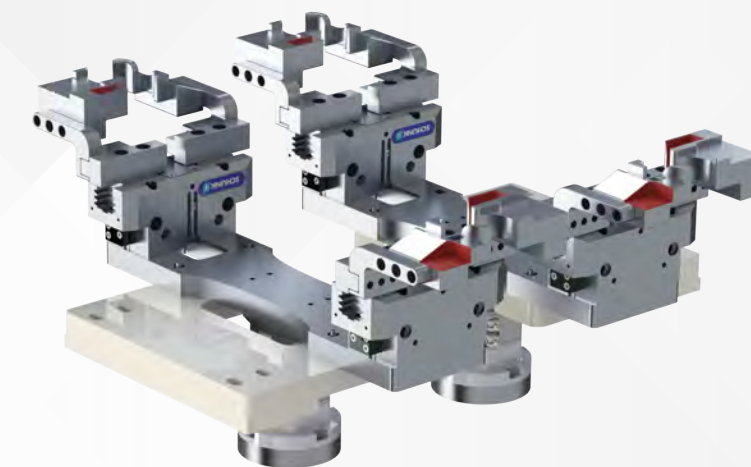
Extended: up to 3250×600
Max: up to 4000×600



3

Available Options & Configurations

- Tool changer station
- Rinse + dry station
- Additional gripper finger set
- Dimension check camera
- Leak / sealability test integration
- Laser marking & vision validation
- Roboguide simulation license
- Conveyor cleaning brush



4

System Manager Options & Configurations

- Production Data & OEE Measurement
- Quick Stop Diagnosis
- Component Life Tracking
- Browser Access (PC / Tablet / Mobile)
- Event Log

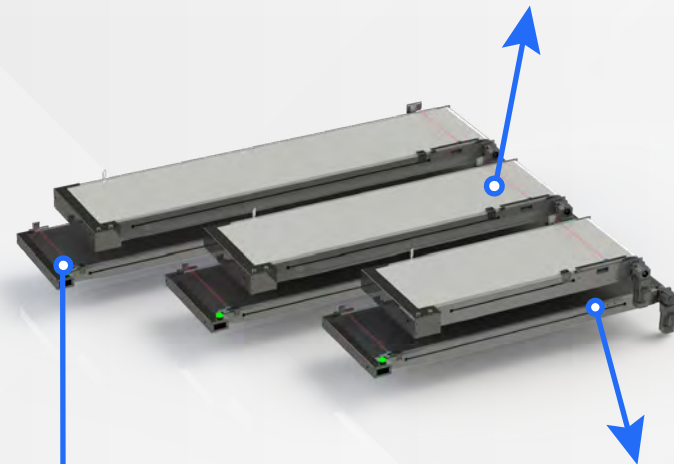
Available Options & Configurations

Option 01

Extended Conveyor Length

Extended conveyor sizes

- Load: 2500x600 mm
- Unload: 3000x600 mm

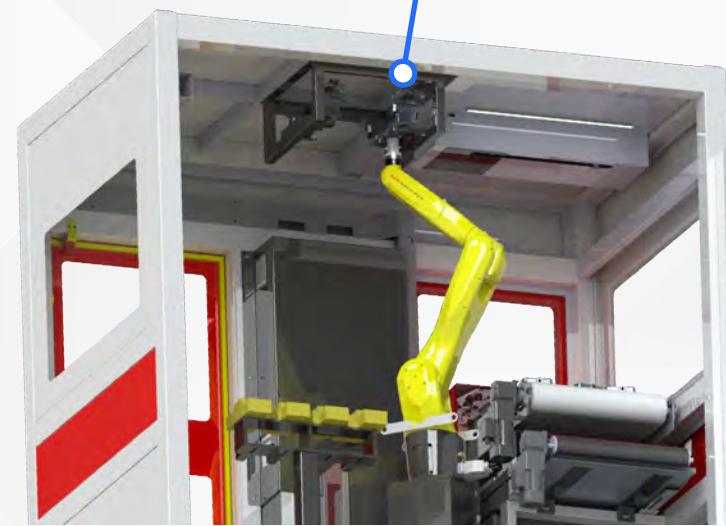


Standard conveyor sizes

- Load: 1800 x 600 mm
- Unload: 2200 x 600 mm

Long-range conveyor sizes

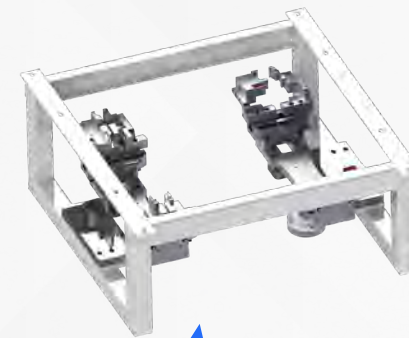
- Load: 3250x600 mm
- Unload: 4000x600 mm



Option 02

Tool Changer Station

Automatic EOAT change-over to handle multiple part types or process steps within one cell.



Option 03

Wash, Rinse and Dry Module

Integrated cleaning flow before downstream steps such as leak testing, measurement or packaging.



Option 04

Integrated Leak Test Station

Verify sealing integrity of machined parts with an integrated leak testing station.



From Application Review to Stable Production

A structured IROCUBE deployment process,
backed by proven automation components
and long-term support

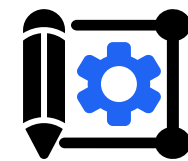
1

Application Review



2

Concept & Layout



3

Simulation & Engineering



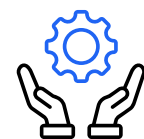
4

SAT, FAT
& Installation



5

Ramp-Up, On-Site
& Remote Support



Premium Supplier Network

Industry-leading components for
consistent performance. Proven brands,
strong availability, and long-term support.



FANUC

STÄUBLI

ABB

ESTUN

BECKHOFF

Schneider
Electric

TwinCAT®

SCHUNK

BALLUFF

wenglor

EUCHNER

BASLER

OPTO ENGINEERING

MURR
ELEKTRONIK

HELUKABEL

Weidmüller

ROBSEN

A reference story of success with **TORUN METAL**



“With Irocube investments, the availability of our machines increased. We gained the ability to plan delivery times more effectively. Thanks to ease of use, our operator requirement on this line decreased. As a result, we started to utilize our trained personnel more efficiently in other areas of production.”

Murat Dönmez, Plant Manager, *Torun Metal*



Click or scan to read
the interview

Torun Metal Robodrill Line In Numbers



60 Robodrill



60 IROCUBE



9 Operator



Torun Metal Fanuc Robodrill Irocube Line

Turning Lathes IROCUBE TF Series

Compact turning lathe automation
with rotary outfeed conveyor.

Minimal footprint, built into lathe work envelope

Rotary outfeed conveyor: no long conveyor required

IROVISION-based pick & place: no fixture

Rotary conveyor

IROVISION

No fixture needed

Easy set-up

Single Platform

Minimal footprint

This Doosan Line Didn't Need Another Machine



scan to watch



Machining Centers IROCUBE MF Series

Automatic CNC loading designed for
machining centers.

Compatible with

FANUC
ROBODRILL

SW

chiron

8ALA



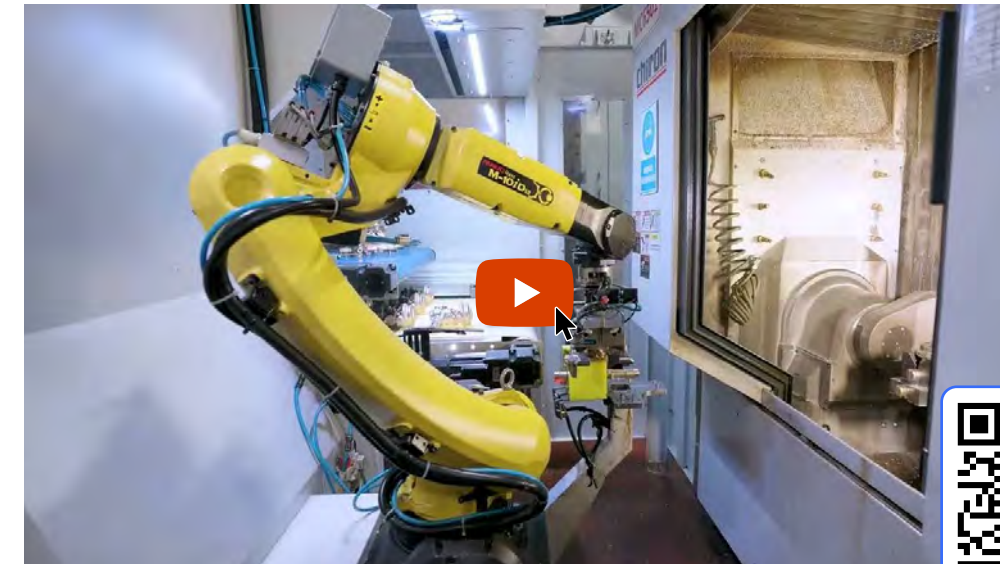
IROCUBE MF SW Series machine tending



IROCUBE MF7 Robodrill machine tending

chiron

Complex Geometries?



scan to watch

FANUC
ROBODRILL

IROCUBE MF10L Mastering Production Efficiency



scan to watch

ROBSEN