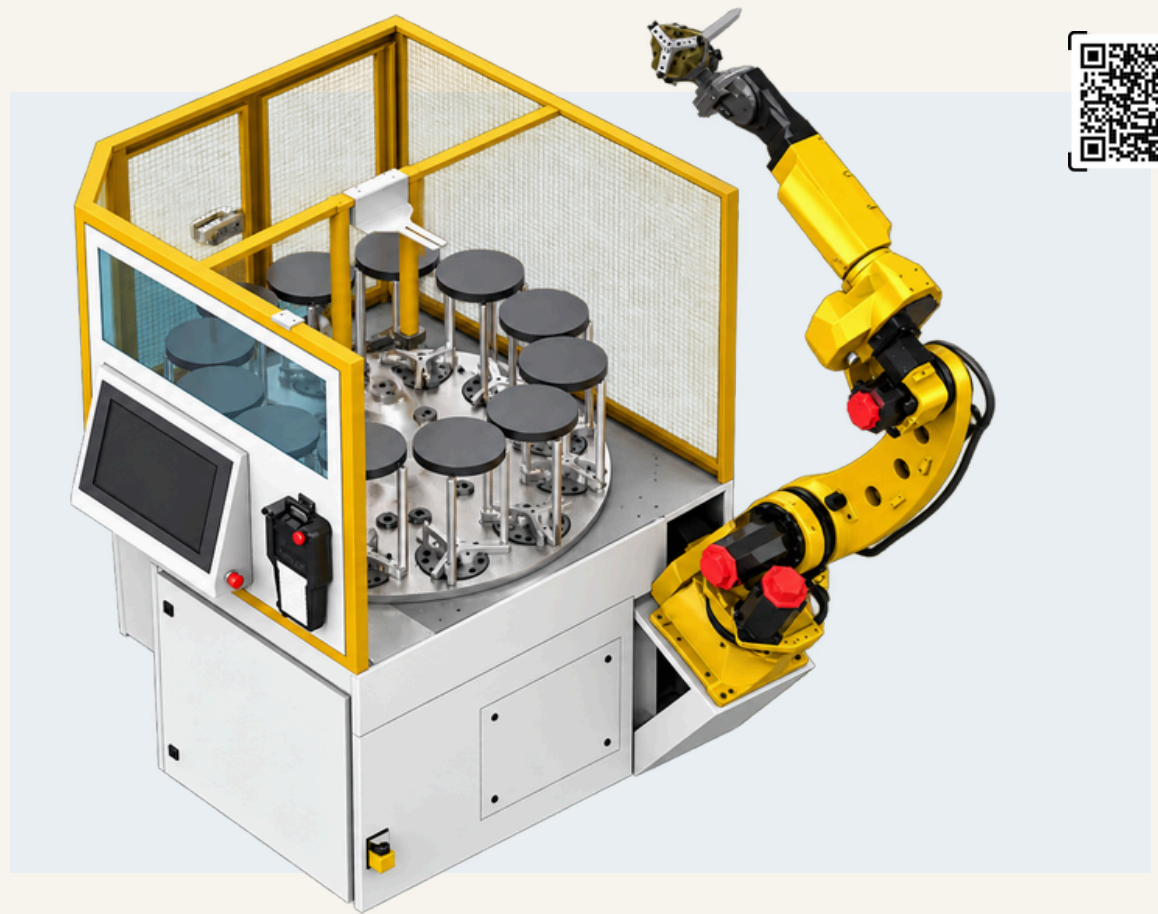


Robot Tending Unit

One connected system for seeing, deciding, acting, and scaling.



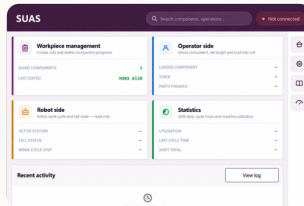
01



Vision Camera

See

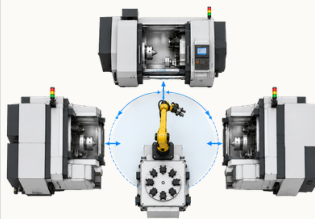
02



Interface 1

Decide

03



Integrated System
Integrate

04

LiDAR Sensor



Sense

05

Robot Arm



Act

06

Interface



Insights

CONFIGURATION OVERVIEW



System

- Movable
- Vision camera
- Rigid framework
- LiDAR field sensor
- Rotary loading table
- Full enclosure with safety protection
- Mounted on 4-point self-centring supports
- Standard robot-machine interface for every CNC machine

Industry 4.0

- Digital Twin
- Predictive forecasting
- Rapid teaching interface
- Smart inspection integration
- Robotic torque & load monitoring
- Built-in programme for various profile of jobs face

Capacity

- Workpiece diameter (min-max) - 50-250 mm
- Minimum workpiece (L x W) - 10 mm x 10 mm
- Maximum workpiece (L x W) - 150 mm x 150 mm
- Height of workpiece (min-max) - 10 mm - 165 mm
- Maximum load capacity robot arm - 25/35 kg
- Maximum total weight on robotic table - 500 kg

Functionalities

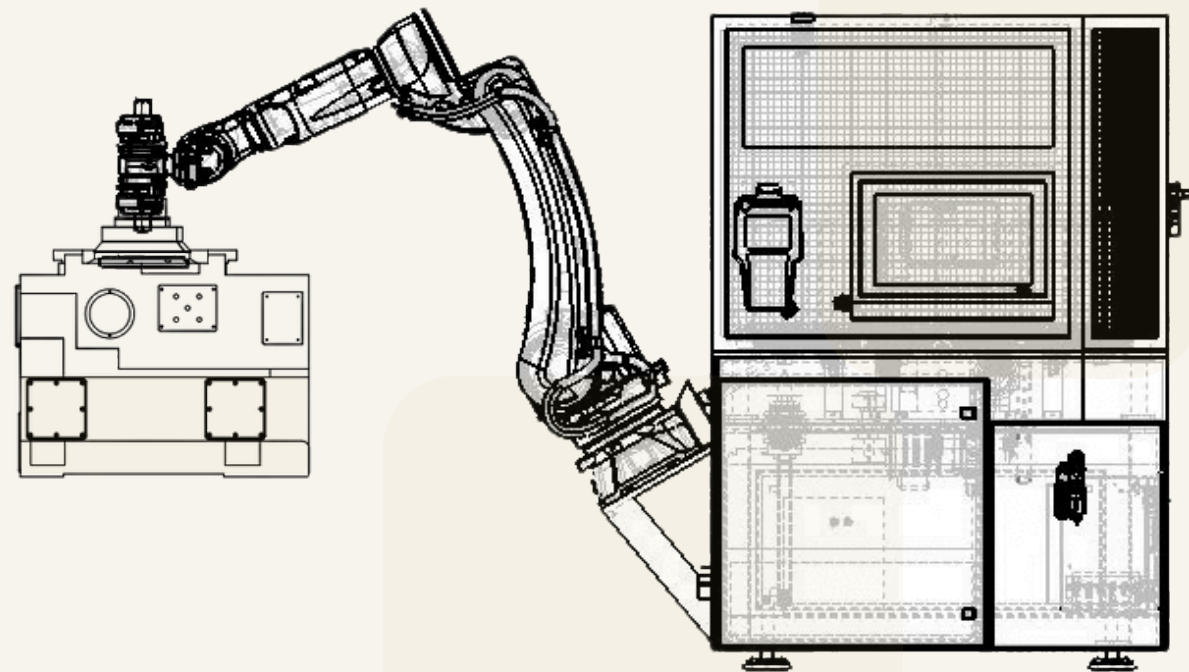
- Integrated
- Adjustable air blow
- Touchscreen interface
- Robot parking position button control
- Internal & external gripping capability
- Eccentric loading & unloading capability
- Compatible with CNC spindle orientation
- Workpiece adjustment for positional accuracy
- Maximum number of CNC machines that can be connected

Dimensions

- Length - 1500 mm
- Width - 1700 mm
- Height - 2100 mm
- Total Weight - 1200 kg

Option

- Workpiece Diameter— 50-250 mm (8/12),
100-350 mm (8)
- Quick change system for gripper exchange
- Workpiece-specific gripper fingers —2 finger / 3 finger
- Workpiece-specific grid plates
- Workpiece side-gripping station
- Workpiece turnover station for dual-sided machining
- Cleaning of workpiece outside the CNC machine
- Rejected workpiece removal
- Workpiece turnover function for two sided machining
- Workpiece unloading onto pallet
- Unloading workpiece on external fixed position
- Residual material unloading
- Workpiece collection from revolver tool



An Automation unit of TASA

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