SMART ROBOTS

ASSEMBLY WITH VISION GUIDANCE

SMART ROBOTS

INDEVA®

INTELLIGENT DEVICES FOR HANDLING

SMART ROBOTS
ASSEMBLY WITH VISION GUIDANCE

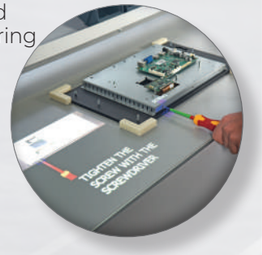
SMART ROBOTS – Intelligent assembly, engineered with LEAN SYSTEM
Real-time guidance and verification eliminate errors at the source.
Combined with INDEVA LEAN SYSTEM, each workstation is designed and manufactured for optimal ergonomics, material flow and production efficiency.

Vision system (camera + lighting)
Identifies components, displays their placement areas, and guides the operator during picking and placement operations.

Status indicator
Visual confirmation of correct operating status (OK / NOT OK), supporting error-proof workflows.

Display HDMI
It provides real-time instructions, selection confirmation and progress updates to the operator.

Visual guide cone
Indicates the active picking zone, ensuring the correct selection of components and reducing errors during assembly.



Modular shelving for containers
A customisable container layout for components, optimised for both high- and low-volume assembly environments.

Modular aluminium structure
A rigid yet flexible structure that allows for easy configuration and integration of vision and guidance components.

Ergonomic work surface
Height-adjustable table designed for comfortable, repetitive assembly work.

Built-in control panel
Control panel for electronics and power management for the vision-guided system.

ACHIEVE OPERATIONAL EXCELLENCE AT MANUAL WORKSTATIONS

UP TO 99% reduction in errors

10% increase in productivity

Results may vary depending on application and process conditions.

Feature	Impact icon	Key benefits
Step-by-Step guidance		**ERROR-FREE EXECUTION:** guides the operator through the precise steps, ensuring the right component is picked and assembled correctly - every time.
Real-Time verification		**IMMEDIATE ALERTS:** uses vision technology to verify actions instantly, preventing errors by alerting operators before a missed or incorrect step is finalized.
Consistent quality		**REDUCED REWORK:** ensures uniform product quality, significantly reducing rework and streamlining production flow, even in high-variation tasks.
Digital instructions		**SIMPLIFIED TRAINING:** empowers operators with clear digital guides, enabling fast job rotation and minimizing reliance on experience.
Integrated traceability		**FACTORY INTEGRATION:** connects fully with factory systems, providing complete traceability and turning manual workstations into measurable, optimized processes.

Fully integrated in LEAN SYSTEM
Smart Robots is not a standalone system - it is part of INDEVA LEAN SYSTEM:

- Modular workstation design
- Integrated flow racks and kitting solutions
- Optimised ergonomics and material flow
- Seamless integration into existing production lines

ONE SYSTEM. ONE LOGIC. ONE SCALABLE PLATFORM.

SMART ROBOTS

LEAN SYSTEM FLEXIBLE SOLUTIONS WITH ENDLESS POSSIBILITIES

LEAN SYSTEM is **INDEVA's modular system** for **production** and **intralogistics**, supporting **material flow, assembly operations**, and **internal logistics** in industrial manufacturing.
Used by **multinational manufactures**, it enables **reliable, scalable,** and **adaptable production environments.**

WORK STATION

Workstations provide ergonomic, structured assembly environments, supporting efficient operations, reduced operator strain, and consistent production flow.

TRANSPORT / KITTING / SEQUENCING

Transport solutions provide safe, controlled material movement, ensuring stable flow and reliable line supply.
Kitting trolleys provide structured part presentation, ensuring picking accuracy and efficient assembly.
Sequencing trolleys provide line-side supply in build order, ensuring correct parts and smooth flow.

FLOW RACK

Flow racks provide controlled FIFO material flow at the workstation, ensuring clear part visibility, improved ergonomics, reduced handling, and efficient line-side supply.

APPLICATIONS

Line supply

Kitting

Trasport

Mobile carts

Warehouse

Tool stations

Workcells

AGV/AMR carriers

SOLUTIONS FOR
SMART MANUFACTURING

LEAN SYSTEM

INDUSTRIAL MANIPULATORS

ROBOTIC AUTOMATION

A unique and extensive range of products, at the cutting edge of technology, to best meet customised applications.

INTERNATIONAL PRESENCE

3 PRODUCTION PLANTS

7 BRANCHES

80 COUNTRIES

45 DISTRIBUTORS

I **Italy**
Scaglia INDEVA S.p.A.
INDEVA SysDesign S.r.l.

UK **United Kingdom**
Scaglia INDEVA Ltd.

F **France**
Scaglia INDEVA S.A.R.L.

D **Germany**
Scaglia INDEVA GmbH

SE **Sweden**
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Scaglia INDEVA (Shanghai) Ltd.

IN **India**
Scaglia INDEVA Ergomatic India Pvt. Ltd.

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The products described in this document are subject to change or modification at any time. The descriptions, technical and functional data, drawings and instructions contained in this brochure are to be considered indicative only and therefore have no contractual value. Please also note that the products must be used by qualified personnel and in compliance with current installation regulations, in order to prevent injury to persons and damage to property.

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