

INDEVA[®]

INTELLIGENT DEVICES FOR HANDLING



**INDEVA[®] state of the
art materials handling
technology**

INDEVA® state of the art materials handling technology

State of the art INDEVA technology for more Ergonomics, Safety and Productivity

The INDEVA® lifting systems are the state of the art technology for manual load handling systems, and are an evolution of the industrial manipulators.

With thirty years' experience in the design and manufacture of devices that comply with all the latest safety regulations and the most complete range of manipulators on the market, INDEVA® technology fully complies with all the latest guidelines related to ergonomics and safety.



To effectively improve operator wellbeing and achieve ergonomically safe handling operations, it is necessary that the manipulator not only eliminates the strain during load lifting (along vertical axis), but also the inertia during acceleration, braking or direction changes.

The INDEVA® known as intelligent devices for handling or intelligent assist devices (IAD), comply with the above ergonomics guidelines.

Performance and productivity are increased as a result of the constant production rate, less personnel requirements as the machine can handle more components, increased reliability and smooth, precise handling eliminating the risks and stresses of manual handling.

Ergonomics is one of the cornerstones of Indeva's design and manufacturing principles. We have spent many years studying people and their tasks across a diverse sector of manufacturing and distribution industries, where different types of components and products are moved from one location to another.

Overall, INDEVA® industrial manipulators represent an excellent choice for companies who want to improve employee health and safety and minimise the cost and distress of work-related injuries whilst at the same time optimising efficiency and production through the increased use of ergonomics.

INDEVA TECHNOLOGY SUITS THE NEED FOR ACCURATE MOVES AND PRECISE LOAD POSITIONING

The INDEVA® technology allows for accurate and precise movements, a feature which is essential for all applications where the load has to be placed in a restricted area without jerks, in order to safeguard product integrity with no strain for the operator.



INDEVA[®]
INTELLIGENT DEVICES FOR HANDLING

HIGHEST SAFETY STANDARD

- In case of power failure, mechanical lock will prevent the fall of the gripping tool;
- In case operator press the release button while load is not in release position, the INDEVA® slowly moves down until release position is reached;
- In case an end effector not designed by INDEVA® is used and load is lost, the auto balancing function prevents the manipulator from shooting upwards;
- Diagnostic: wide diagnostic functions and alarms available from display. Possible to immediately understand the cause of a problem.

VERY LIGHT TO MOVE

Both Column and Rail mounted INDEVAs are light to move (inertia and gravity forces reduced to almost nothing when starting or stopping the motion, thus allowing very precise and quick load positioning (no over travelling , bouncing and need of lots of little corrective movements, that, added to cycle time, reduce productivity)).

AUTOMATIC WEIGHT DETECTION AND BALANCING

INDEVA® technology allows to handle different loads without need of adjusting with selectors, in case different parts have to be handled.

INDEVA FOR THE AUTOMOTIVE AND AEROSPACE INDUSTRIES



Indeva designs, manufactures and installs a world-class range of industrial manipulators and bespoke handling systems for automotive, aerospace, process and general engineering applications. Manufactured to ISO 9001 quality system certification in our advanced manufacturing and test centre, Indeva products have a reputation for innovation, quality and reliability.

BESPOKE GRIPPING TOOLS

Scaglia Indeva boasts the greatest expertise in designing and manufacturing bespoke end effectors and is appreciated worldwide for being able to provide tailor made gripping tools for a great variety of different loads and work cycles. Each tool is designed in the respect of ergonomic and safety guidelines and according to INDEVA® policy of creating light, compact user friendly tools, which allows good visibility of the working area and load to handle.



WIRELESS CONNECTIVITY FOR INDUSTRY 4.0

An INDEVA® can exchange data with the Customer IT System through the Company Network and allows visualisation of manipulator activity by means of interface software.



REMOTE TROUBLE SHOOTING

An INDEVA® can be connected via Wi-Fi to App-Indeva, so that machine data can be transferred to a remote tablet or smartphone in real time. This can assist fault diagnosis, so significantly reducing call-out charges and operator downtime.

ENVIRONMENT FRIENDLY

Empreinte carbone réduite grâce à une faible consommation d'énergie.

GOOD TO KNOW

Cost-Cutting and a Safer Work-Place – The Use Of Industrial Manipulator

Providing a safe working environment with excellent adherence to health and safety legislation whilst at the same time optimising efficiency and productivity is what most manufacturing companies strive to achieve.

Each year, considerable time and money is lost as a result of illness and injuries sustained by employees in the manufacturing sector.

Significant amounts are paid in claims and wages and efficiency and productivity is often

negatively affected through employees' subsequent absences.

The use of materials handling equipment can reduce the risks of illness and injury associated with this type of work and the industrial manipulators designed and manufactured by worldleading company Scaglia INDEVA®, address the need for higher productivity combined with safety and ergonomics.

Workplace injuries cost Britain on average £6billion per year, with 27 million days lost due to work-related illness and injury in 2011/2012.

The latest figures from the Health and Safety Executive (HSE) showed that the highest rates of workplace injury occurred in manual operations. Repetitive handling tasks can result in short and long-term injuries to employees, particularly musculo-skeletal back injuries (51,000 reported cases in 2011/2012).

In a recent survey by the manufacturers' organisation, EEF, the majority of respondents said that good health and safety practices save money in the long-term, improves quality, improves morale as well as benefiting a company's overall performance.

Clearly, this is a significant issue for manufacturing companies to address in their aim to maximise the outputs of their production lines.

Reduction of work-related employee illness and injury can result in significant cost reductions. Thankfully, this task is made simpler by the range of the intelligent industrial manipulators available from Scaglia INDEVA®.