**indBox** is a modular workpiece carrier system conceived to optimise material flows (of semifinished products, components, modules or assembled parts), during production and logistics processes.

**INDBOX IS A WORKPIECE CARRIER SYSTEM MADE OF SEVERAL MODULAR COMPONENTS:**

1. TRAY (PLATE WITH GRID)
2. PLASTIC BOXES
3. STACKING EDGES
4. PINS / CLIPS
5. DIVIDERS
6. HOLDING RACK FOR TRAYS
7. METALLIC BASKETS AND LIDS

All indBox plastic components are produced with polymers resistant to intensive use, high temperatures and all substances normally employed in industrial part cleaning equipment.

The boxes are stackable and have standard dimensions optimised for shipment on pallets.

- The parts are positioned and fastened thanks to the clips.
- The pins are slotted into the tray or box holes.
- The parts are placed and fastened onto the tray or into the box, both on base or sides, by means of pins and clips.

**Box with pins clips and stacking edges**

**Box with dividers**

- Pins, clips and dividers are customisable according to part type geometry and movable as needed.

**Holding rack for trays**

- The rack is designed to hold the stacked trays which are then placed into the box for part cleaning.

- Example of compartment configuration with dividers
- Tray rack with anchor bolts
indBox optimisation of material flows between suppliers and client

**Producing**
indBox is **personalisable**: it suits to manual, automated and robotised production lines.

**Cleaning**
indBox is **resistant**: it is adequate for degreasing, cleaning, drying processes also at high temperatures.

**Finishing**
indBox is **protective**: it avoids shocks and rubbing, thus preserving the perfection of treated surfaces, even the most delicate.

**Handling**
indBox is **manageable**: it is available in light but robust materials resistant against impact, friction and wear.

**Shipping**
indBox is **practical**: its dimensions are optimised for industrial standards and shipment on pallet.

**Arriving**
indBox is **reusable**: the same plates or boxes may be used by subcontractors and by the contractor (OEM, system integrator...).

**Assembling**
indBox is **versatile**: it is reconfigurable at will during manual or robotised assembly phases.

**Storing**
indBox is **flexible**: it serves as a storage system for both single components and assembled units.

**Traceability**
indBox is equipped with a **RFID tag** device or **label holder** that allows its location and controlled management within the plant.
**indBox** a clever answer for the industry

**Benefits:**
+ Time and cost saving
+ Optimisation of productive and logistic processes
+ Quality improvement

**indBox advantages**
1. Decrease of un- and re-packing operations
2. Reduction of non-definitive packaging costs
3. Fall of the rejected part rate
4. Maximum protection of delicate surfaces
5. Compatibility with containers already in use (cleaning baskets, KLT boxes)
6. Re-use possibilities between suppliers and client
7. Inbound & Outbound logistics optimisation

**indBox for subcontracting**
- Production of components or semi-finished products (turned, milled, stamped parts...)
- Cutting/deformation/bending of metal sheets
- Industrial part degreasing and cleaning
- Surface treatment: chrome-plating, sand-blasting, varnishing
- Assembly of modules/groups/finished products
- Robotised feeding systems
- Transport and storage between different locations

**Pins and clips**
STANDARD AND CUSTOMISED. OUR TRUE STRENGTH IS THE DEVELOPMENT OF SOLUTIONS REALLY TAILORED TO THE CUSTOMER’S NEEDS.
**indBox** the solution for industrial part cleaning

Tray available in reinforced plastic materials, resistant until 230°C. Load capacity: 60 kg.

Tray with 99 holder pins / clips slotted into the holes.

The parts are placed one by one and anchored by means of the clips.

Set of trays stacked with adjustable height spacers.

INDBOX IS A FLEXIBLE AND CLEVER SYSTEM DESIGNED TO MEET THE REQUIREMENTS OF INDUSTRY 4.0 IN TERMS OF ORGANISATION, TRACEABILITY, QUALITY CONTROL AND COST REDUCTION.

Stainless steel rack designed to hold a set of trays and to fit into the cleaning mesh baskets.

The trays are inserted along the rack stems and blocked with anchor bolts.

The complete block made of trays and rack is placed into the cleaning mesh basket.

The lid allows tilting and rotating movements with no risk of surface damage.
indBox a modular and flexible conception

### PLASTIC COMPONENTS

#### TRAY - GRID PLATE

**351x255x10 mm**

- 373 holes for pin/clip insertion

#### BOX

**400x300x100 mm**

- 2 types of plastics
- 2 different settings:
  - 4 grid or 4 open sides

#### STACKING EDGES

**400x300x100 mm**

- With hook snap-fit
- 2 types of plastics
- 2 different settings compatible with the boxes

### ACCESSORIES

#### EXAMPLES OF PINS

Range of standard pins and clips. Customised pins / clips on demand.

![Examples of pins](image)

#### HEIGHT SPACERS

Spacers to adjust the tray stack height according to component size.

![Height spacers](image)

#### ANCHOR BOLTS

To fasten the tray set into the rack.

![Anchor bolts](image)

#### DIVIDERS

Transversal dividers placed onto the base of the box to create compartments.

![Dividers](image)

#### TOOL FOR PIN INSERTION/EXTRACTION

The pins/ clips are easily fastened, removed and moved to another hole with the insertion/extraction tool.

![Tool for pin insertion/extraction](image)

### COMPONENTS IN STAINLESS STEEL

#### TRAY RACK

Holding rack with stems for placement of trays.

![Tray rack](image)

#### CLEANING MESH BASKETS

Baskets and lids, standard or customised.

![Cleaning mesh baskets](image)

#### LIDS FOR CLEANING BASKETS