



smartPINS – Production at the Highest Level

ALWA
smartPINS

Optimization of
Work Processes

Reduction of Costs
and Working Times

Maximum
Protection

Efficient Assembly
Options

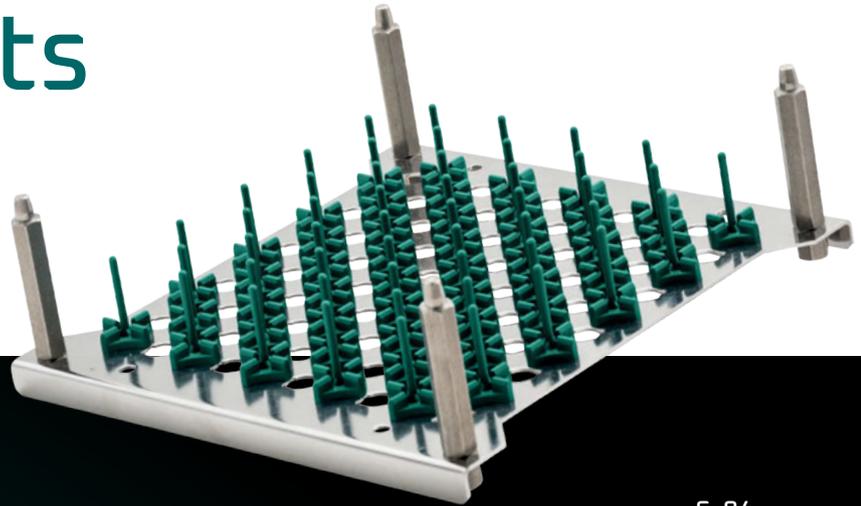
Sustainable and
Durable System Solution

Compatibility with
Existing Systems

Outstanding
Automation Capability

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Production at the Highest Level!

Our mission is to advise and support you with perfectly tailored workpiece carrier systems, whether standard or customized.

With our precisely manufactured pins and workpiece carrier systems for every product shape, we offer you maximum flexibility to control your products within your process chains. Ideally, you use our workpiece carrier systems consistently throughout your process chains.

The smartPINS system can be used in almost all production processes or integrated into existing manufacturing processes through customer-specific adaptations. With over 35 years of experience in the development of various workpiece carriers in the fields of automation, technical parts cleaning, storage, logistics, and transport, we offer you maximum support for your requirements.

smartPINS – the intelligent solution for applications such as

- Cleaning components
- Damage-free transport of parts, internally and externally, even for complex geometries
- Damage-free and stackable storage
- Simplified handling within the production process
- Flexible use across the entire production area



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Our Unique Advantages That Convince

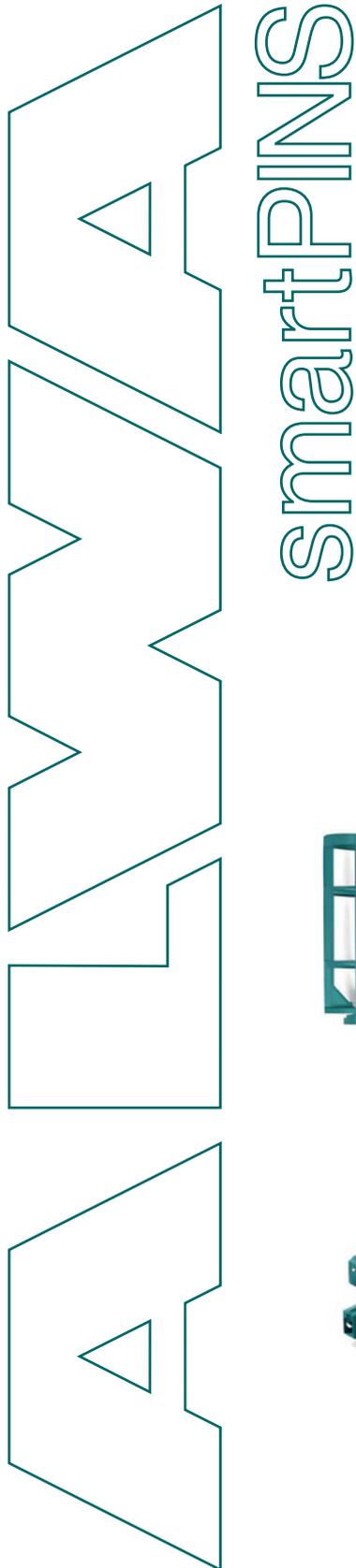
- Automatable and stackable system
- High flexibility thanks to a wide variety of fixation options
- High stability with low weight
- Optimal part guidance
- Precision manufacturing for automation
- Optimal cleaning results through better flushing of the components

Service – Everything Included for Your Success

We see ourselves not only as the manufacturer of your carrier system. Over the past decades, we have accompanied many production chains from their inception and optimization. Through this, we have developed a deep understanding of which processes can be automated. This know-how always flows into our cooperation.

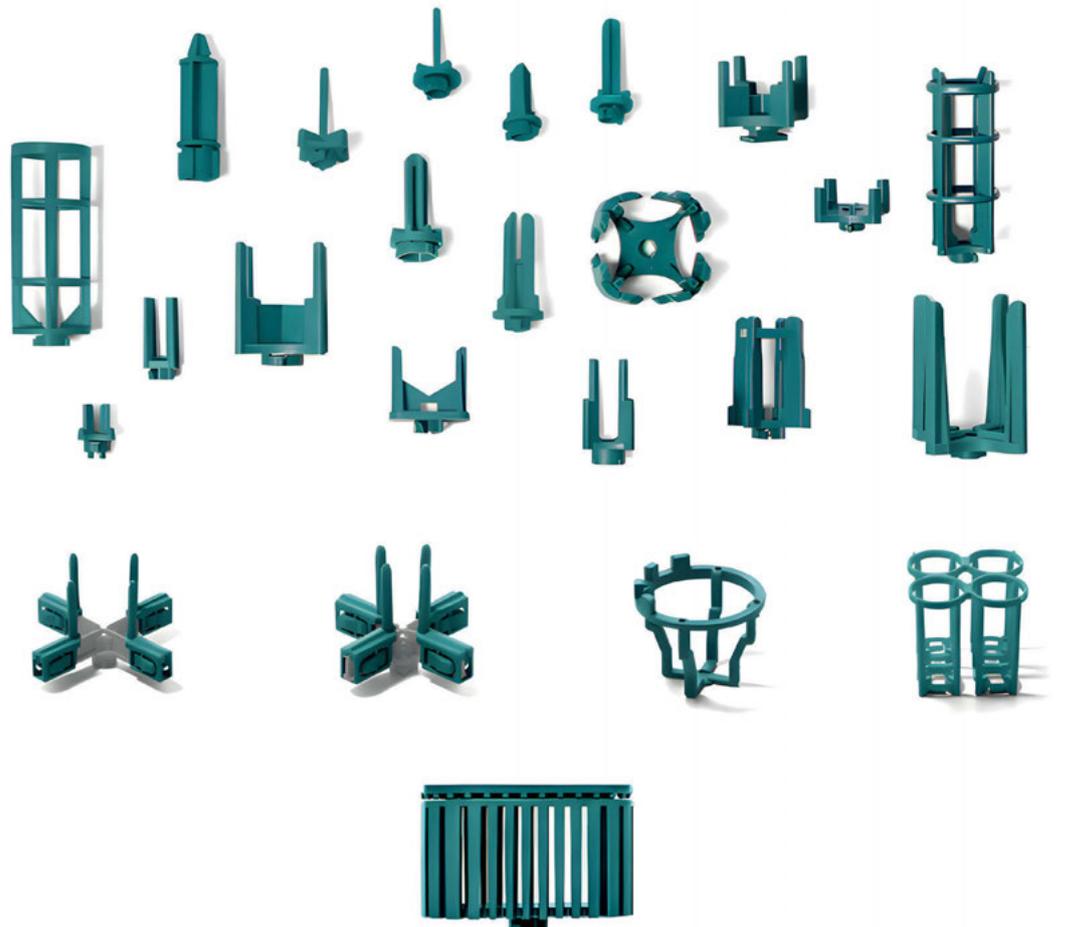
Thus, we not only implement a precisely fitting and economical carrier system for you but also contribute, if desired, to optimizing your entire production.

Pins – Standard or Customized



Benefit from ALWA smartPINS:

- Ideally automatable thanks to high positioning accuracy achieved through top manufacturing quality with state-of-the-art machinery
- Temperature-resistant for use in all common cleaning media
- Resistant to oils, chemicals, and drilling fluids
- Durable thanks to the use of high-quality materials
- Modular, customizable, and interchangeable



PERFECTLY SHAPED!

Workpiece Carriers – A Key Role for High-Quality Components

The complex processes after the completion of a workpiece or product are often a sensitive matter. Products frequently need to be cleaned, prepared for further processing, or stored. There are many risks involved where your valuable products could be damaged — especially during transport to the end customer. So what can be done to protect

valuable goods? Workpiece carriers from ALWA smartPINS offer high-quality and flexible solutions — either as standard systems or as customized carrier systems developed to meet specific needs. As experienced experts in metalworking, plastic design, and mold making, we know the challenges faced by our customers from countless joint projects. The basis of our carrier systems is made up of precisely manufactured stainless steel or plastic plates. The workpieces themselves are fixed in place by smartPINS. These high-quality plastic pins are the heart of the workpiece carrier system. They can be customized in a variety of colors and shapes according to your specific project requirements. Together with the perfectly matched stacking bolts, the modular system offers the possibility to stack and thereby optimize logistics.

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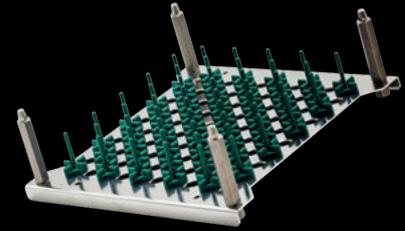
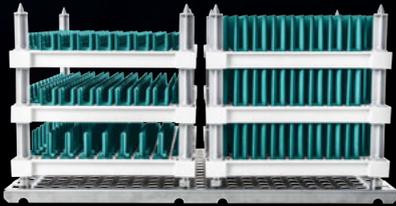
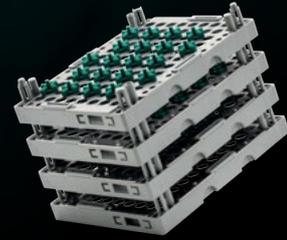
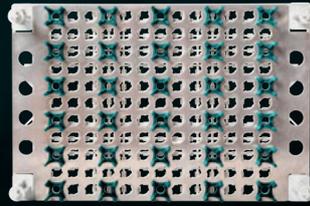
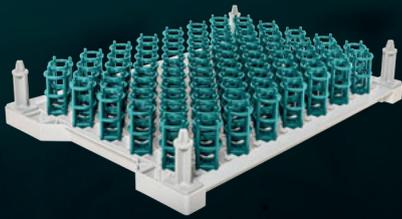
Your Advantages

Our workpiece carrier transport systems can be easily integrated into existing workflows and workpiece carrier systems.

- Replacement of existing storage and transport systems with added safety through the design of the pins and the construction of the carrier
- Adapted pin geometry for precise positioning of rotationally symmetric and asymmetric products — without wobbling or slipping during transport and storage
- High temperature resistance, for example during washing processes after completion of workpieces
- Resistant to chemicals, oils, and drilling fluids thanks to high-quality materials used in the carrier systems

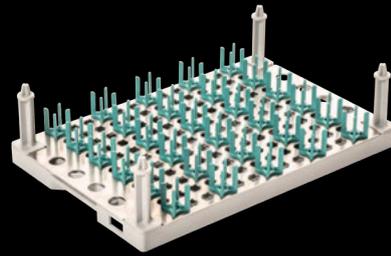
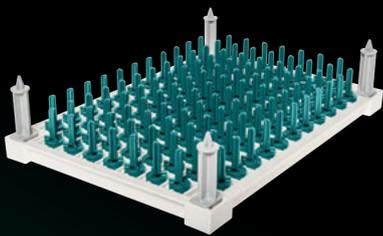


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Standard Workpiece Carrier
in Wire Design

Standard Workpiece Carrier
Made of Stainless Steel



Standard Workpiece Carrier
Made of Plastic

Hybrid Workpiece Carrier
Made of Stainless Steel
Sheet and Plastic

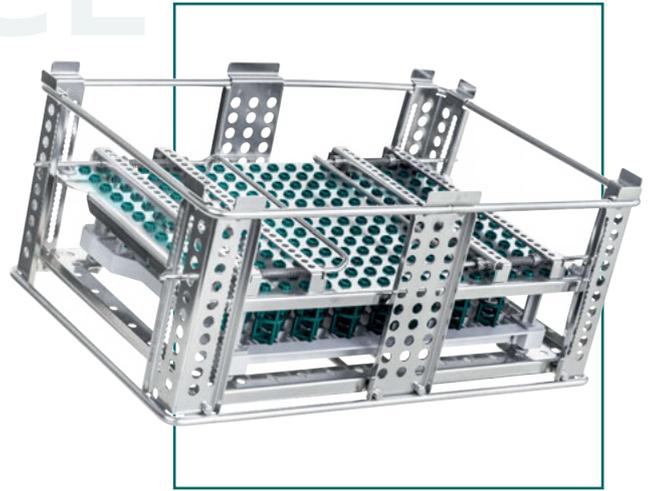
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WORKPIECE CARRIERS

Workpiece Carriers Made of Sheet Metal

The flexible workpiece carrier made of sheet metal offers you almost unlimited possibilities for use in your production.

The design of the workpiece carrier enables the implementation of customer-specific requirements, such as:

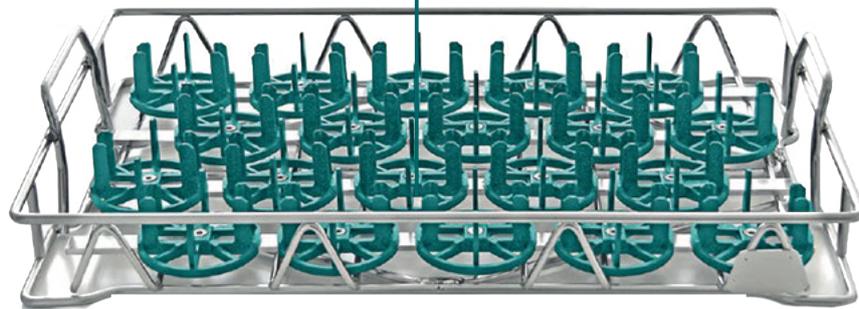
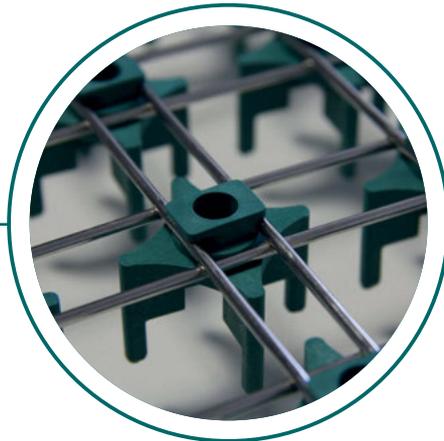


- Freely selectable grids
- Various dimensions of the workpiece carrier
- Selectable locking mechanisms (depending on requirements)
- Highly loadable (also for heavy components)
- Automatable
- Poka-yoke system
- Indexable
- Marking options (QR code, barcode, texts, numbering, RFID)
- Choice of different materials (V4A, V2A, ST 37 galvanized, etc.)
- Choice of material densities (depending on requirements)
- Surface finishing possible (anodizing, coating)
- Stackability through individual spacers
- Suitable for conveyor roller tracks
- Usable with and without cleaning baskets
- All-around protection of components within the workpiece carrier (protected against damage during all process steps)

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Workpiece Carriers Made of Wire

Workpiece carriers made of wire are mainly used in the field of medical technology or wherever very high cleanliness requirements exist. A wire workpiece carrier offers very high flow characteristics and therefore achieves top cleaning results.

Advantages of Wire Workpiece Carriers

Advantages of Wire Workpiece Carriers

- Selectable grid layout
- Poka-yoke system
- Marking options (QR code, barcode, texts, numbering, RFID)
- Surface finishing possible
- Stackability through individual plastic spacers
- All-around protection of components within the workpiece carrier
- Stable fixation of clips through patented foot design

WORKPIECE CARRIERS

Workpiece Carriers Made of Plastic

A workpiece carrier made of plastic offers very high flow characteristics and thus achieves top cleaning results thanks to its open geometry. Despite its delicate design, the workpiece carrier provides a high level of stability and significant weight savings.

Due to the use of high-quality materials, it can also be used at high temperatures without any loss of quality.

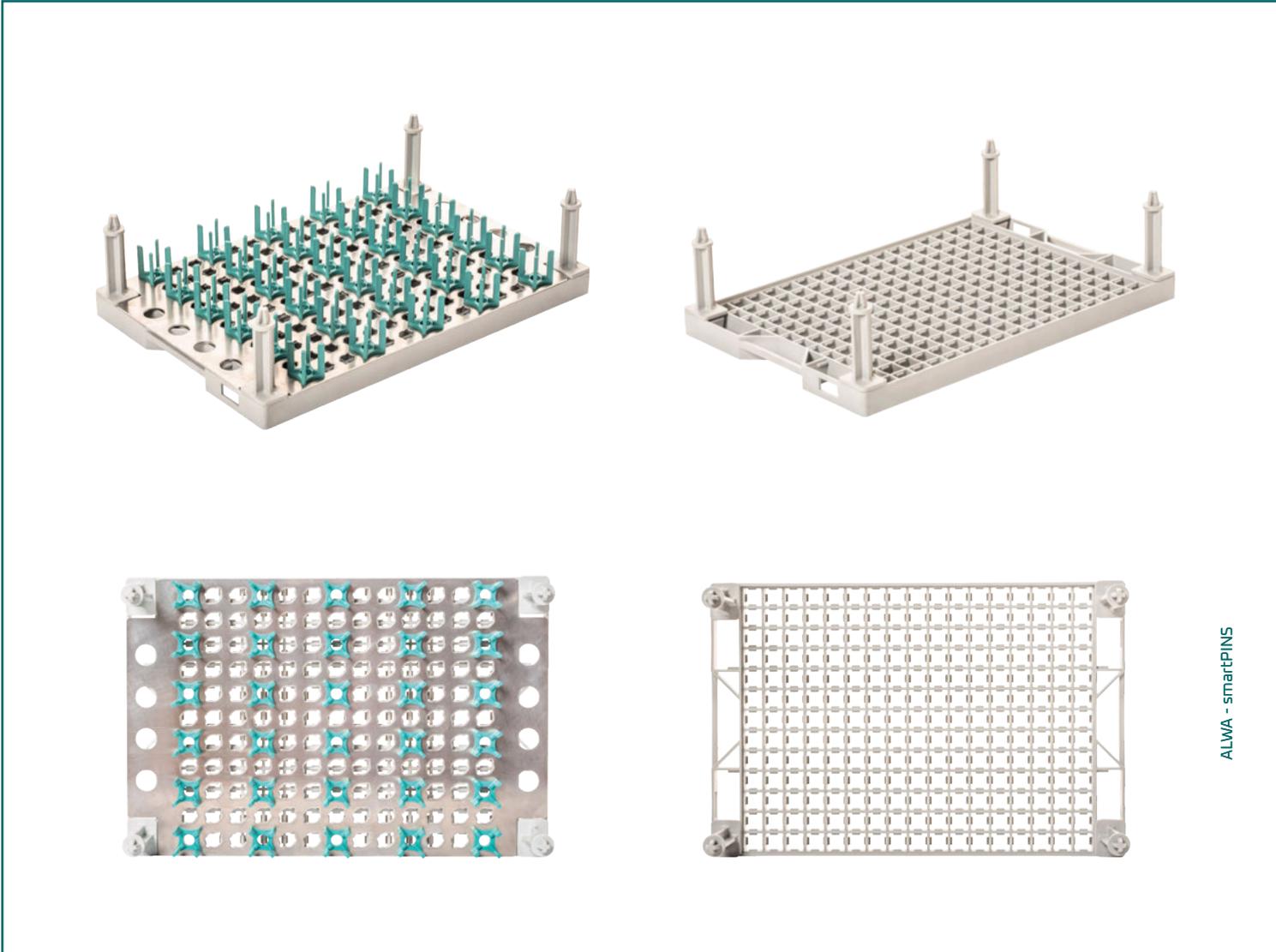
The dimensions of the workpiece carrier are designed to fit standard KLTs (e.g., 4147, 4140, 4120, and others).

Further Advantages of Plastic Workpiece Carriers

- Automatable
- Suitable for conveyor roller tracks
- Poka-yoke system
- Low own weight
- High stability
- Cost-effective
- Long service life
- Suitable for surface processes, e.g., phosphating, coating
- Antistatic
- Temperature resistance up to 250 °C (electron beam cross-linked)
- Resistance to oils, emulsions, and all common cleaning processes
- Suitable for ultrasonic cleaning
- Marking possible by laser engraving
- Stackability through individual plastic spacers



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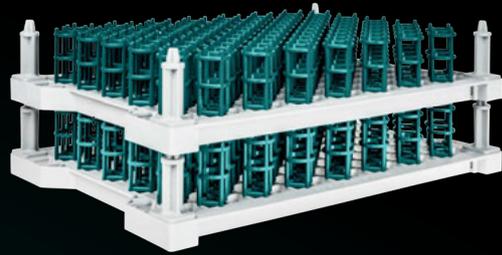
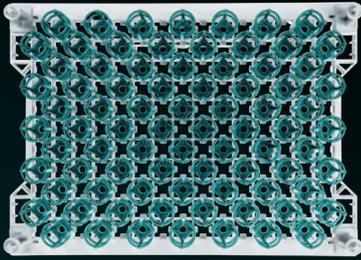


Hybrid Workpiece Carrier Made of Plastic and Metal

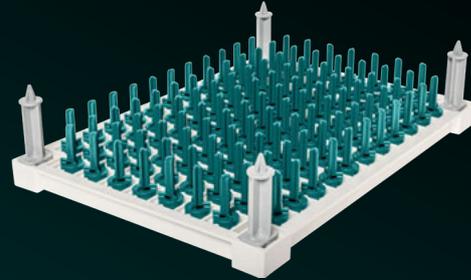
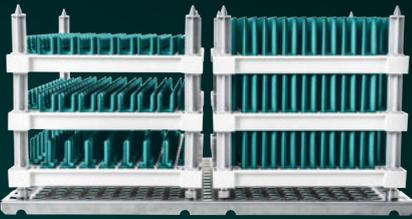
The hybrid workpiece carrier made of plastic and metal combines the advantages of the lightweight plastic carrier plate with the high-precision properties of the metal workpiece carrier. Thanks to its base frame, the flexibly designable inlays, and its modular structure, you achieve maximum flexibility in your production.

VARIANTS

Requirements in Perfection

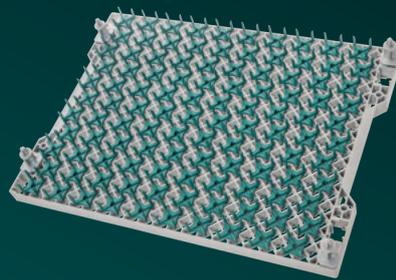


Dimensions: 252 x 343 mm



Dimensions: 197 x 275 mm

This workpiece carrier is adaptable to the dimension 425 x 275 mm



Dimensions: 300 x 400 mm

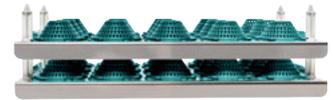
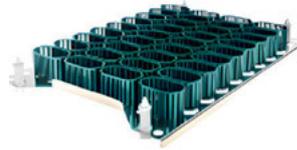
This workpiece carrier can be used as a pure plastic carrier or can be adapted with an individual carrier plate, making it highly versatile.

Further versions available upon request.

Plastic Basket

PLASTIC BASKET

By using our plastic baskets in your production, you gain the ability to transport bulk materials carefully and without damage. When used in cleaning processes, they achieve top cleaning results while ensuring gentle part cleaning.



Advantages of Our Plastic Baskets

- Compatible with all workpiece carrier variants
- Stable locking through mechanical snapping of the lid
- Stackable
- Removable
- Easy handling
- Temperature-resistant up to 140 °C
- Resistant to all oils, emulsions, and common cleaning agents
- Can also be used separately
- Lightweight design
- Significant cost savings
- Long service life thanks to the use of high-quality materials
- Hole pattern can be adjusted according to part requirements

POWER IN PRODUCTION

Custom Solutions for Protecting Your Parts



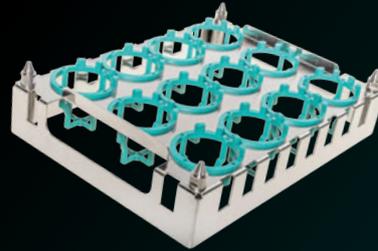
For large and heavy parts



For special automation requirements



For shafts and many part geometries



Large workpiece carriers, e.g., 1200 x 800 mm



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Custom Workpiece Carriers

The production of custom workpiece carriers is always a task we are happy to take on in relation to your processes. We are pleased to work with you to develop solutions

for the transport and storage of your components and to support you in optimizing production in the field of workpiece carriers.



STRONG IN SERVICE

Service – Everything Included for Your Success

We see ourselves not just as the manufacturer of your carrier system. Over the past decades, we have supported many production chains in their development and optimization. In doing so, we have developed a deep understanding of which processes can be automated.

This know-how always flows into our collaboration. Thus, we not only implement a precisely fitting and economical carrier system for you but, if desired, also help optimize your entire production. Put our know-how to the test and schedule a consultation with us.

Practical Additions

With smartPINS solutions, you have the option, depending on your system, to clean even without a washing basket. We are happy to coordinate our system with you.

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Benefit from:

- Our individual on-site consulting
- Many years of experience in development and CAD design
- Control and testing through prototypes
- The option for series production

We support you with:

- Planning based on your specific part requirements
- CAD design and creation of technical drawings
- Project support throughout the process



Our References at a Glance



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