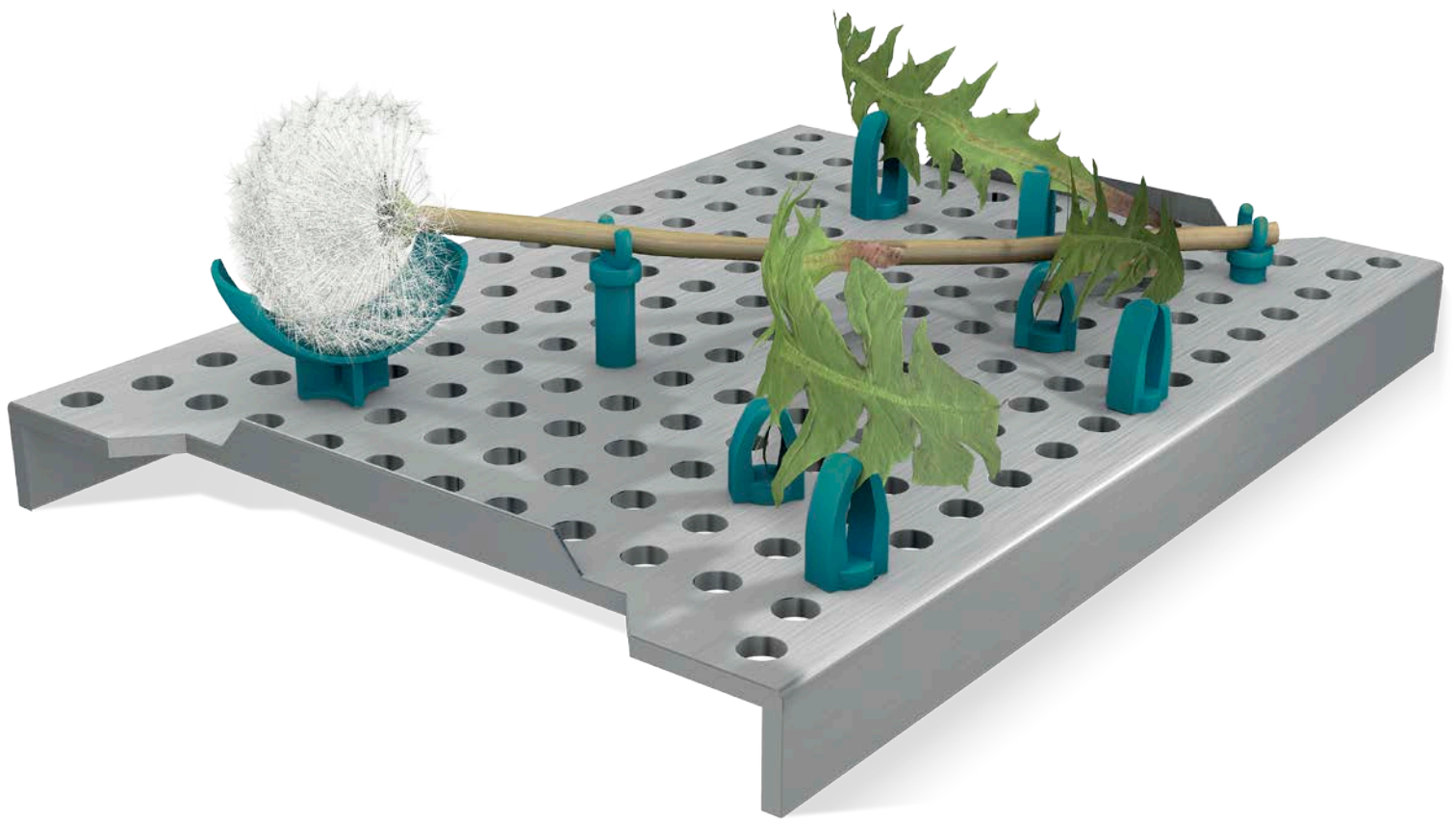


PROTECTION FOR YOUR QUALITY



Workflow Optimization

Reduction of Costs and Working Hours

Maximum Protection

Efficient Equipping Options

Sustainable and Stable Value System Solution

Compatibility to Existing Systems

OPTIMIZATION AND PROTECTION

ALWA smartPINS – the original for 25 years

For processing, transporting, cleaning and storing, your products must be properly protected and stored. Our carrier systems offer customized solutions for set goods. The aligned part geometry of our pins places rotationally symmetric and asymmetric products in an accurate position.

smartPINS – the intelligent solution for applications such as

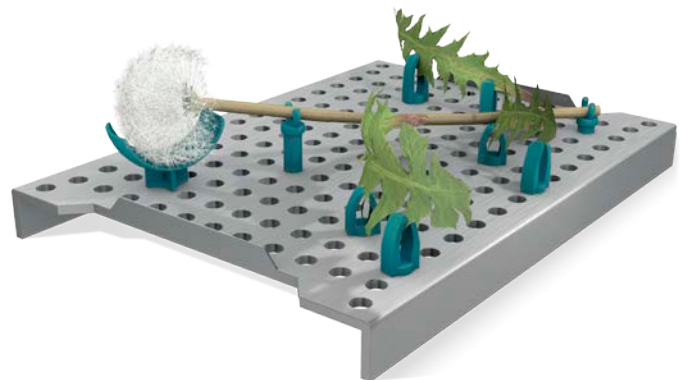
- cleaning components
- damage-free component transport, both internal and external, even in cases of difficult geometries
- damage-free stackable storage
- simplified handling during production
- flexible use in the entire production area

With unique advantages that will win you over.

- automated and stackable system
- partially patented socket with pins
- high flexibility due to a wide variety of fixing options
- high stability at low weight
- optimal component management
- precision production for automations
- optimum cleaning results through better flushing of components

We develop individual solutions

for automotive, medical, electronic and sheet metal processing. We will gladly develop a carrier system and pins that will match your specified parameters.

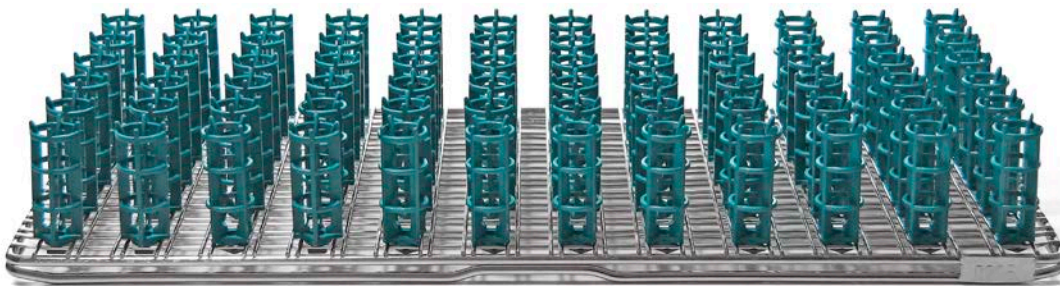


STANDARD VARIANTS

We offer a product portfolio of over 400 different standard pins,



versatile and modular, for use in our patented carrier system solution with ringpins.



FLEXIBLE AND STABLE

WORKPIECE CARRIER

The carrier system consists of high-quality stainless steel and plastic components that are heat-resistant and notable for their high stability and durability. In addition to our standard carriers, we can produce custom solutions for your specific applications.

The special characteristics for our workpiece carriers are

- variable equipping of grid and plate sizes
- optional design of the carriers made of high-quality V2A in a galvanized or aluminum version
- the possibility to use the support plate with a reliable bayonet closure or with a wire solution
- the resistance of our materials especially in the existing market of cleaning agents, drilling oils, emulsions, etc.

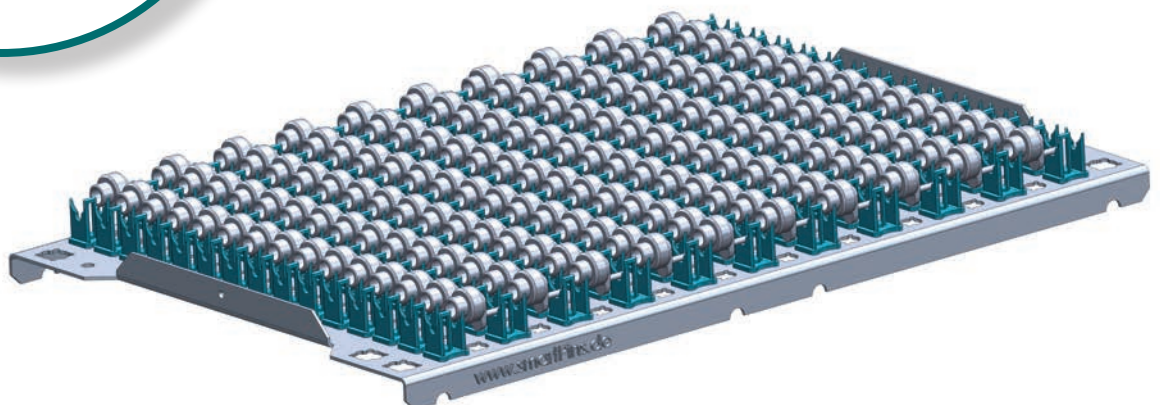
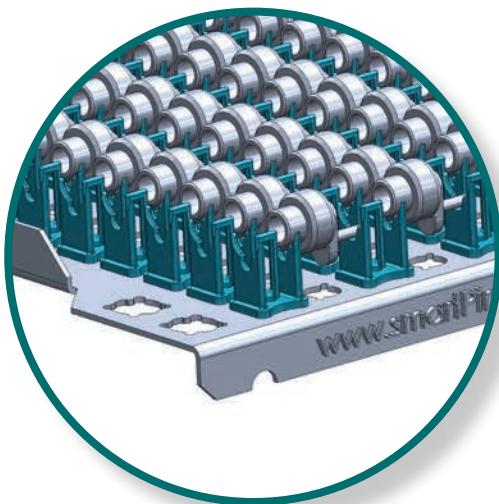


Illustrations: Standard workpiece carriers from our program.

CUSTOMER SPECIFIC WORKPIECE CARRIERS

Manufacturing **customer specific workpiece carriers** is a task that we gladly undertake and it is always based on your processes.

We can develop a **solution for transporting and storing your components** and will gladly support you during the manufacturing optimization in the area of workpiece carriers.



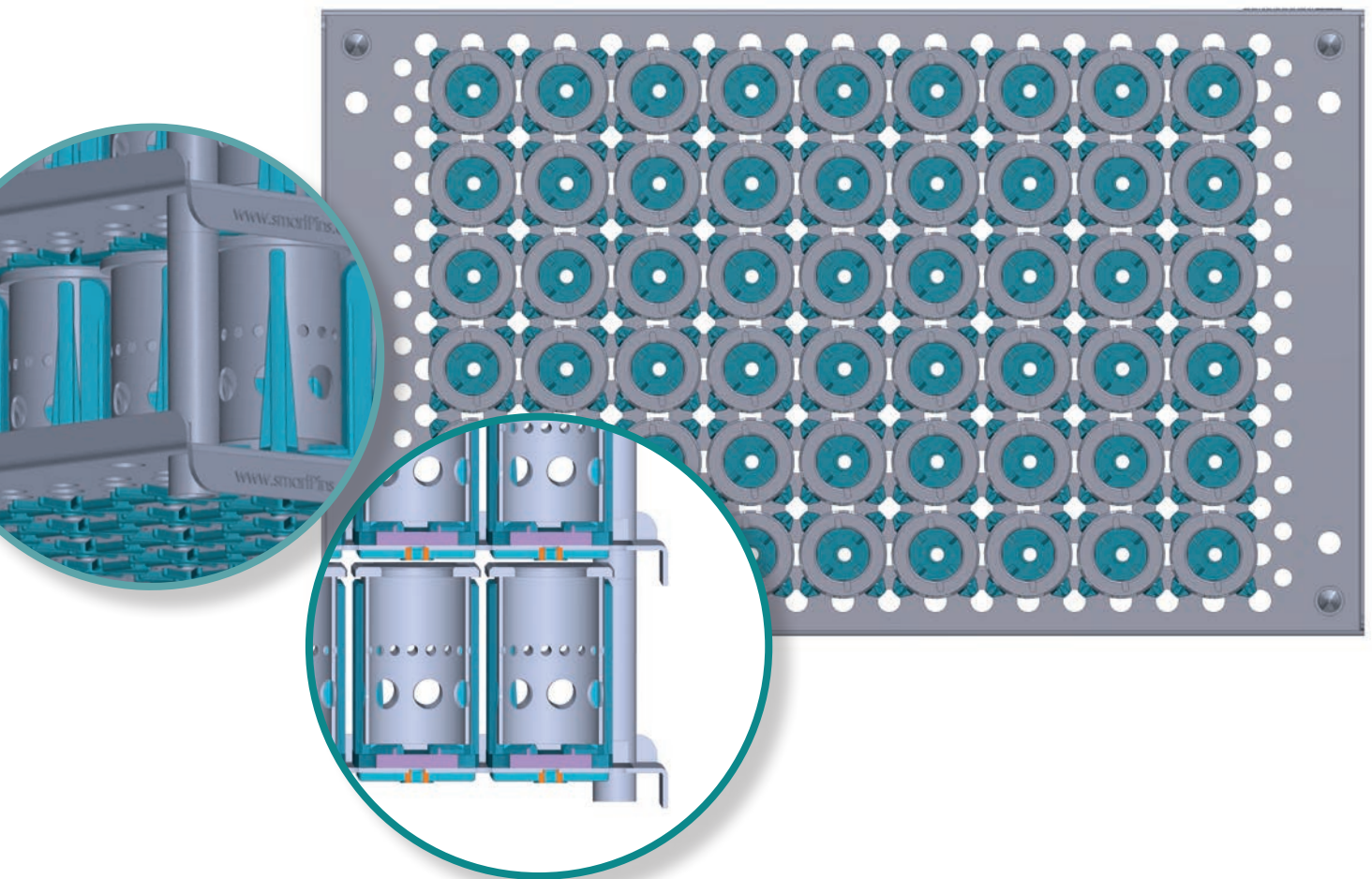
Illustrations: Customer specific workpiece carrier with enlarged view.

THE RIGHT PROTECTION

PROTECT YOUR COMPONENTS

Your components will always be stored in a way that ensures complete protection, thereby eliminating the possibility for damage.

This not only **guarantees the highest quality**, but at the same time reduces your reject costs.



Illustrations: Stacking components with protection and space above.

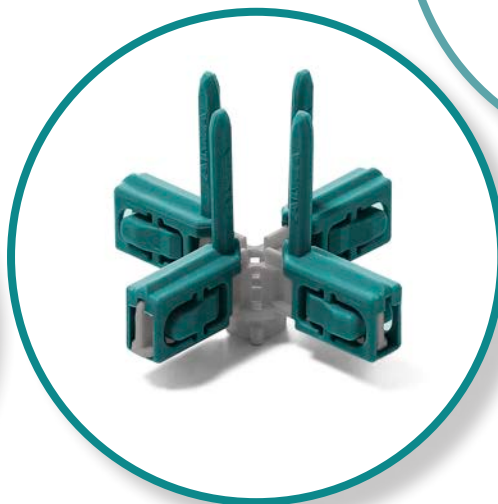
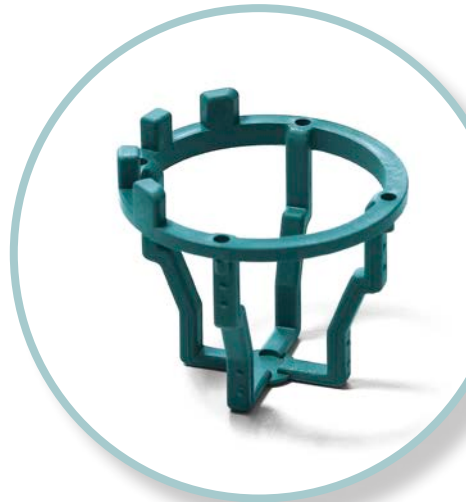
PINS

Our pins are partially patented and guarantee you perfect positioning and securing of components. Once fitted between the pins, your valuable components receive the best possible protection during storage and transportation.

For individual customer requirements, we can develop the appropriate socket shape and size.

Our pins are

- usable with standard cleaning agents due to their heat-resistant properties
- resistant to oil, chemicals and drilling water
- durable due to their high-quality materials
- modular, can be used individually and are interchangeable
- available in different color variants

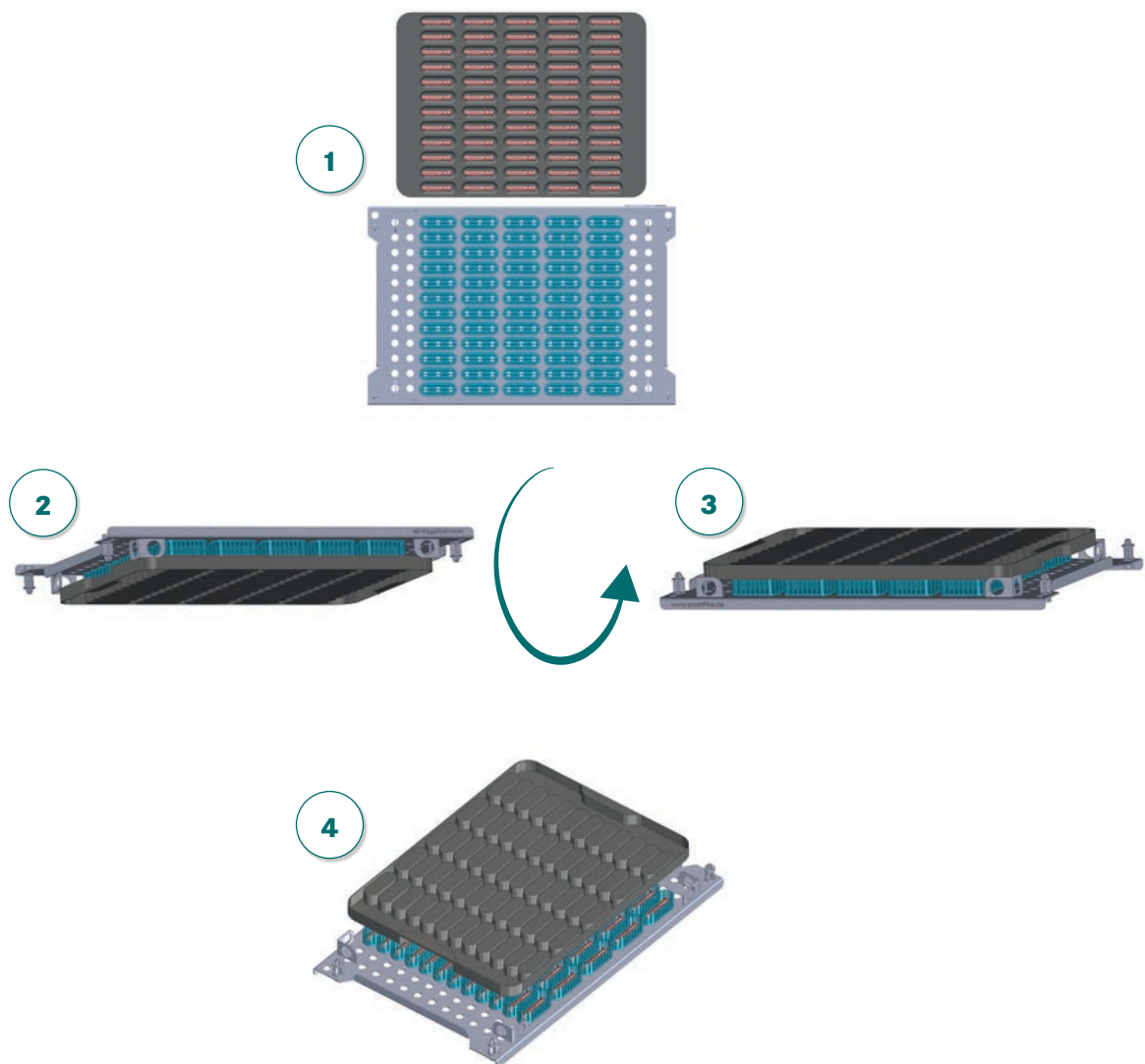


Illustrations: Special Solutions

STACKING. CLEANING. TRANSPORTING.

SWITCH SYSTEM

To avoid unnecessary handling, we can also produce your workpiece carrier based on predetermined sizes.



Illustrations: Matching blister (black) to fill the workpiece carrier.

PRACTICAL ADDITIONS

With the smartPINS solution, you have the possibility, depending on your system, to **clean without a wash basket**. We will gladly adapt our system for you - **without changing your current processes**.

A **huge help in day-to-day operations** with our workpiece carriers are **our practical transport carts**. These are available custom designed to your needs.

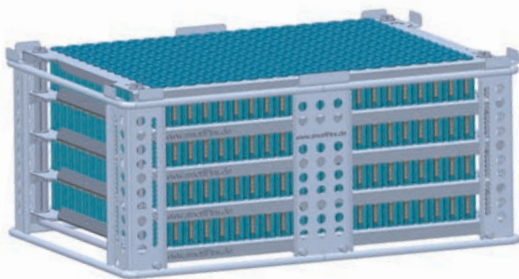
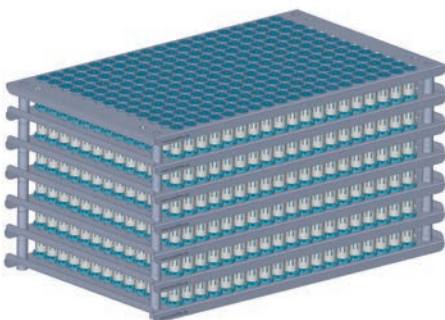


Illustration left: smartPINS solution with and without wash basket.

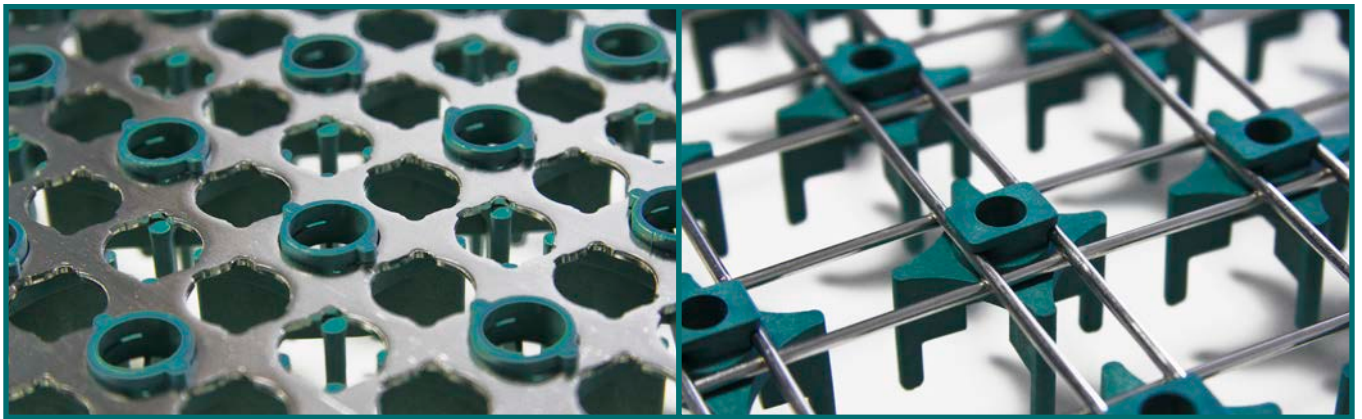
Illustration right: Transport cart for workpiece carriers.



CUSTOMIZED TO YOUR NEEDS

TYPES OF CLOSURES

With our partially patented closures, you are always on the safe side.



SERVICE

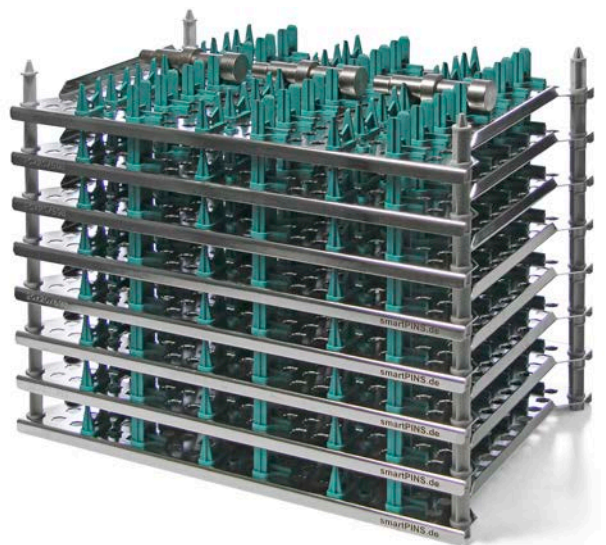
In addition to our standard solutions, we can develop and produce coordinated workpiece carriers and pins and transport and wash baskets specifically for your needs. Our system also allows for cleaning without a wash basket.

Take advantage of:

- our individual consultation at your location
- our many years of experience in development and CAD construction
- control and testing through prototypes
- the possibility of series production

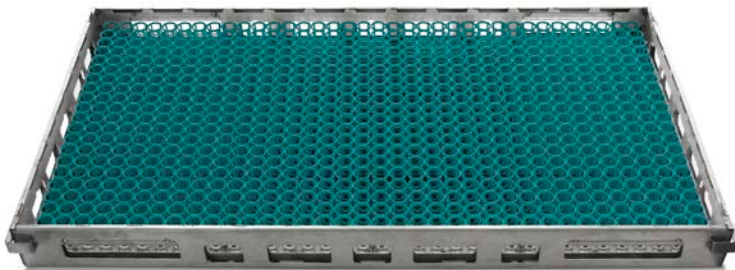
We can advise you on:

- planning based on your specific component requirements
- CAD construction and creation of working drawings and support you through our project management.

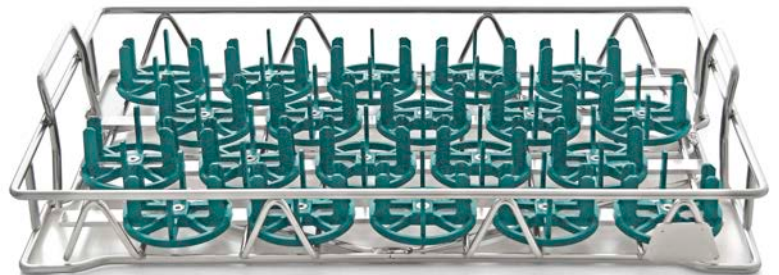


CUSTOM PRODUCTION

... for small and sensitive parts



... for large and heavy parts



... for special automations



... for shafts and many more part geometries



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