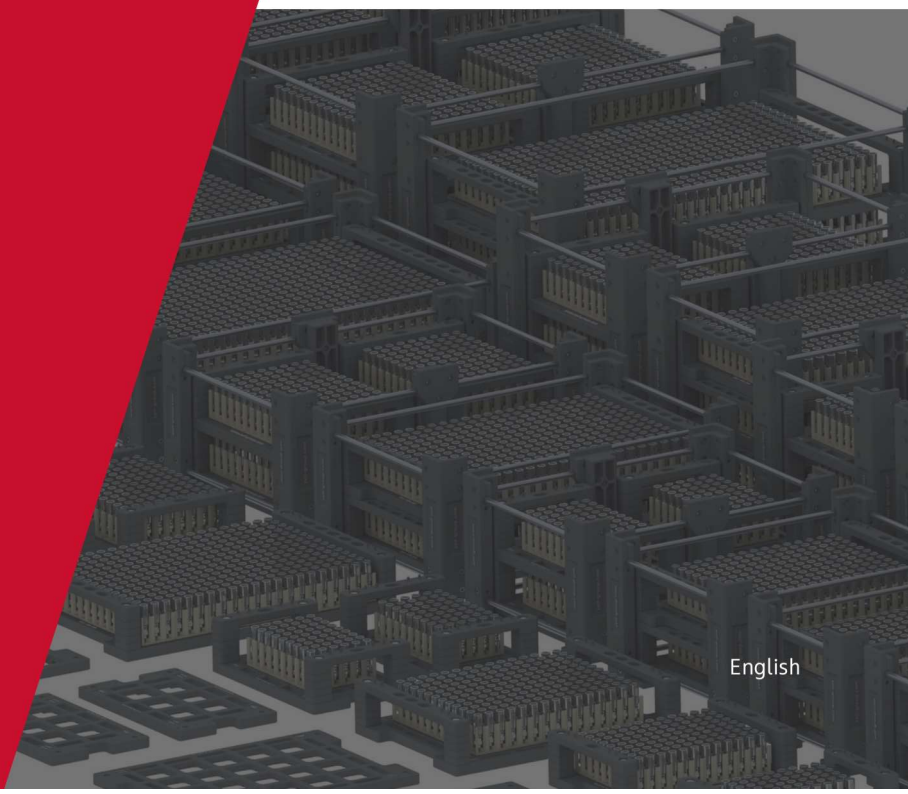


Configurable Trays Cleaning Baskets



English



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All information has been carefully prepared and checked. However, we cannot accept any liability for possible errors or omissions. Technical changes reserved.

¹All prices stated are non-binding guide values and may vary depending on design, quantity, and individual requirements. Subject to change and errors. The prices valid at the time of order apply.

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Ideas for better solutions

ZELL Systemtechnik GmbH has been developing and producing transport systems made of stainless steel and plastic since its founding in 2008, serving as a reliable partner for more than 15 industries.

The company primarily offers standardized, modular systems, including trays, baskets, multiclips, standard clips, cleaning adapters, and other accessories for a wide range of applications.

Through optimal coordination of all components, ZELL enables cost-effective, efficient, and sustainable transport of precision parts.

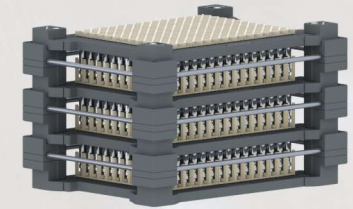


"Our strength lies not only in our products, but in the people who stand behind them. With commitment, a spirit of innovation, and genuine passion, we create solutions that deliver lasting added value for our customers."
– Michele Farruggio (Managing Director)

ZELL® Factory



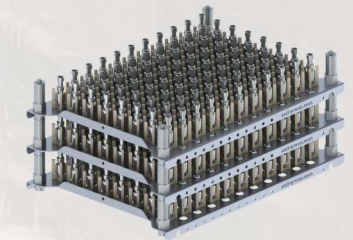
ZELL® Carrier



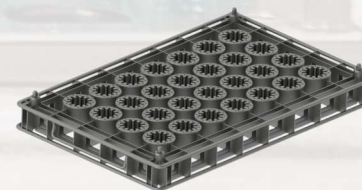
ZELL® Box



ZELL® Stainless Steel



GRID®



ZELL® Move



ZELL Applications

Cleaning

Efficient. Gentle. Media can circulate optimally and reach all relevant areas of the components. The baskets are suitable for cleaning processes up to 120 °C and for use with various solvents, including PER.

Hardening

Temperature-resistant holding system for thermal processes.

Transport / Storage

Secure carrier systems for the transport and organized storage.

ESD

All plastic components can be manufactured as ESD-capable with a defined surface resistance (10^9 – 10^{10} ohms).

Stamping

Separation of stamped parts for further automation.

Automation

Precise. Repeatable positioning of components (matrix). Supports pick-and-place, handling, machine loading, and automated material flow. Easy integration. Process stability.

CNC

Precise component fixture for machine tending.

Protect surfaces

Load carriers for components with critical sealing and visible surfaces.

Honing

Secure workpiece holding for precise honing processes.

Grinding

Secure holding for demanding grinding processes.

Automotive

Aerospace

Medical

Tooling

Manufacturing

Optics

Defense

Battery, EV

Logistics

Electronics

Gas, Fluid

Jewelry



More about
industries and
applications.,
Testimonial

ZELL Services



Custom

ZELL enables customer-specific new developments of standard and multiclips, as well as complete systems at a significantly better price than competing technologies, since only a single component needs to be adapted.



Samples

ZELL provides free samples for internal testing over a period of 2–3 weeks, allowing optimal evaluation of the most suitable solution. The samples can then be returned free of charge.



Customer and support appointments

ZELL offers personal customer and support appointments with its technical sales team for individual consultation and technical assistance, including local service partners across three continents. Appointments can be booked directly via public calendars.



ZELL Configurator

The ZELL configurator can select the appropriate geometry from over 1,300 clip shapes within seconds. Customers can then virtually build carriers and baskets for quick visualization. (configurator.zell-group.com).



Assembly

ZELL offers professional assembly of the ordered systems upon request, ensuring fast and reliable integration.



Webshop

ZELL offers both existing and new customers a simple and transparent way to quickly order clips and systems via the ZELL online shop.



visit Shop



Our solutions for your component

1 Separation or Bulk Handling

Modular PA baskets, flexible box systems, or fully separated parts with precisely positioned clips.

2 Check for an Existing Standard Clip / Multiclip

Using STEP files and technical drawings, customer components can be quickly analyzed. Within seconds, the ZELL® configurator can determine whether an existing clip can be used for the component. If not, our design team evaluates whether a new development is required.

3 Select Carrier Material

Customers can choose between plastic and stainless steel carriers to benefit from different advantages. Custom sizes can be adapted or newly requested.

4 Complete the system, additional components

Baskets, labels, removal aids, lids, colors, ESD protection, fasteners – ZELL offers a wide range of optional configuration options for a complete workpiece carrier system.

FOR MORE THAN 1,000 SATISFIED COMPANIES

Valeo

WIKAI

TESLA

SFS

KAVO
Dental Excellence

pero

ebmpapst

PHINIA

BOSCH



Component holder

Standard Clip

Our component trays feature more than 1,300 different standard clips for mounted parts, enabling the accommodation of both rotationally symmetrical and asymmetrical components. ZELL standard clips protect the workpieces through secure fixation. This allows for precise and gentle transport during industrial parts cleaning, heat treatment, stacking, reloading of mounted parts, and, last but not least, the safe storage of components within automated production.



Internal Mounting

With internal mounting, the component is fixed from the inside using a clip. It is ideal for components with openings or bores and enables precise, gentle, and stable handling in automated processes.

External Mounting

With external mounting, the component is fixed on its outer contour using a clip. It is ideal for components without internal geometry and ensures reliable and material-friendly handling.

Horizontal Mounting

With horizontal mounting, the component is fixed in a horizontal position using a clip. It is ideal for elongated or delicate workpieces. Available with round or prismatic support to minimize the contact surface even further.

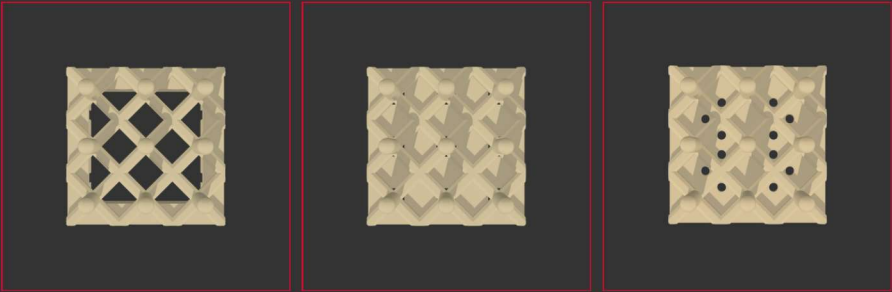
Multiclip

Our multiclips offer several key advantages, including a lower purchase price and up to 300% higher capacity, significantly increasing the holding capacity per carrier. Assembly time is also reduced by up to 83%, since the multiclip only needs to be pressed in instead of being individually screwed in like standard clips. Multiclips are primarily manufactured with a square locking mechanism, but are also available with a bayonet lock.



Multiclip Nozzle Sides

ZELL offers various nozzle-side options for multiclips: open for optimal flow, closed for maximum stability, and with mounting options for both plastic and stainless steel carriers.

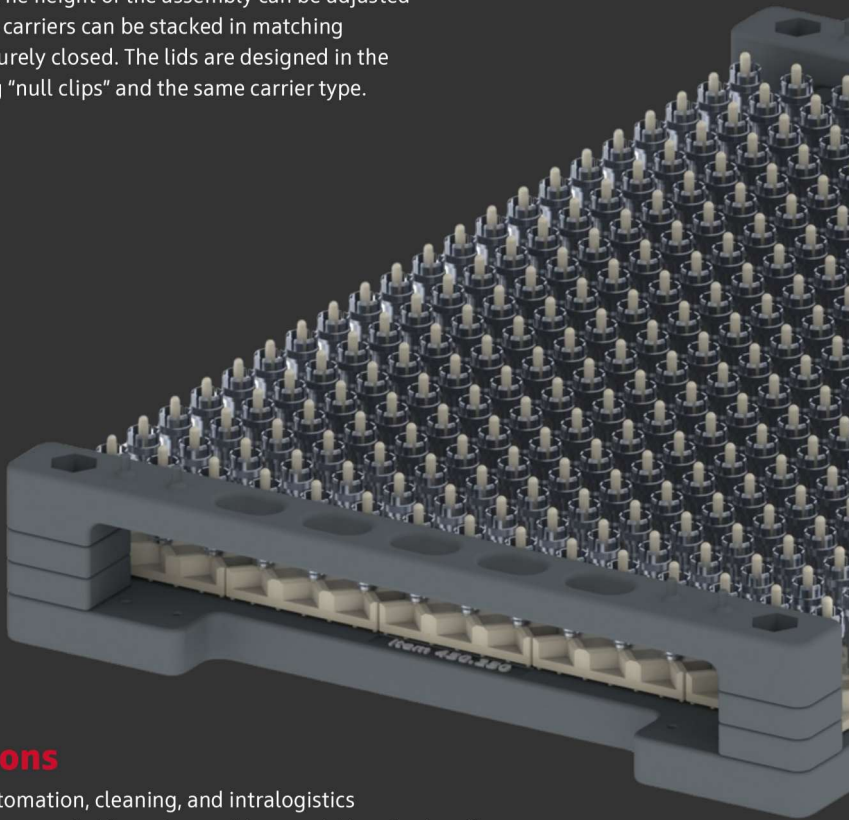


Mount	min Ø / a	max Ø / a	min h / l	max h / l	Starting at €¹
Internal	2	33	1	200	0,21
External	2	41	1	200	0,16
Horizontal	var	40	18	var	0,34

ZELL® Factory

Assembly

The Factory system consists of a base tray available in five standard sizes. The height of the assembly can be adjusted flexibly. Factory carriers can be stacked in matching baskets and securely closed. The lids are designed in the same way, using "null clips" and the same carrier type.



Applications

- Trays for automation, cleaning, and intralogistics
- Buffer systems, stackable at the machine or within robotic cells
- Inlays for container, totes
- Inlay for cleaning basket

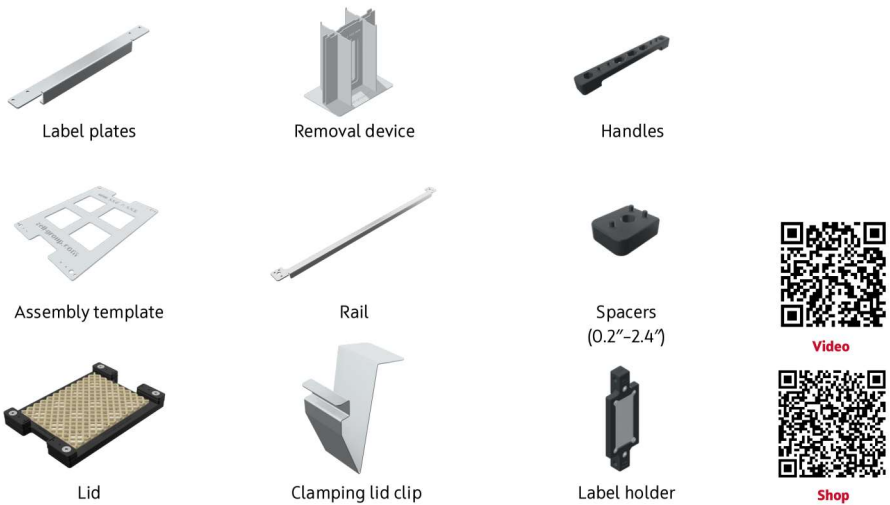


Technical Data

L × W	L × W (Basket)	Cavities	Multiclip	Mount	Starting at €¹
155 x 255	200 x 300	54	6	Square	9,00
275 x 190	320 x 235	108	12	Square	10,50
355 x 255	400x300	180	20	Square	12,50
275 x 425	470 x 320	315	35	Square Bajonett	14,50
555 x 355	600x400	486	54	Quadrat	19,50
	800 x 600				

- Handle height for plastic carriers: 20-100 mm min./max., adjustable in 5 mm increments, with a self-locking M8 screw connection
- Selectable basket height: 200 mm or 300 mm

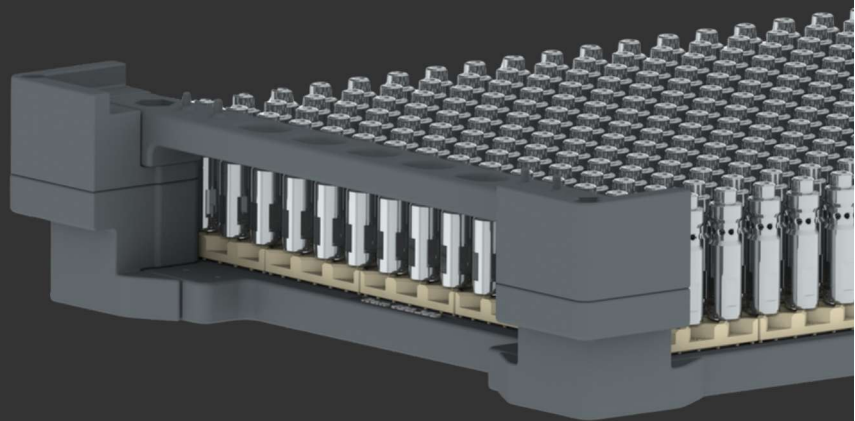
Additional Components



ZELL® Carrier

Assembly

The ZELL® Carrier System extends Factory with matching corner elements and one or two round frames, allowing the total container height to be adjusted.

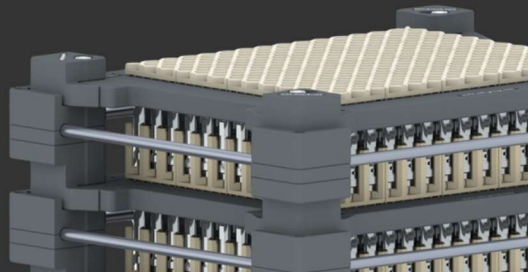


Applications

- Workpiece carriers for automation and cleaning, particularly for heavy components
- Buffering, robotic cells, and intralogistics applications
- Replacement solution, stackable containers

Variants

Carriers for heavy components ("Heavy") can be designed with a round frame or with handles, similar to Factory "Light".



Technical Data

L × W	Cavities	Multiclip	Mount	Starting at €¹
300 x 200	54	6	Quadrat	30,60
320 x 235	108	12	Quadrat	32,70
400 x 300	180	20	Quadrat	35,10
470 x 320	315	35	Quadrat Bajonett	37,10
600 x 400	486	54	Quadrat	42,70

- Handle height of the carriers: min. 80-170 mm, adjustable in 10 mm increments, with self-locking M8 and M5 screw connections
- 3-in-1 Solution: Cleaning basket, tray, component holder

Additional Components



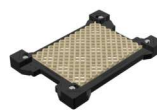
Label plates



Round frame



Handles



Lid



Spacers
(10, 20, 30, 40, 50 mm)



Video



Shop Carrier heavy

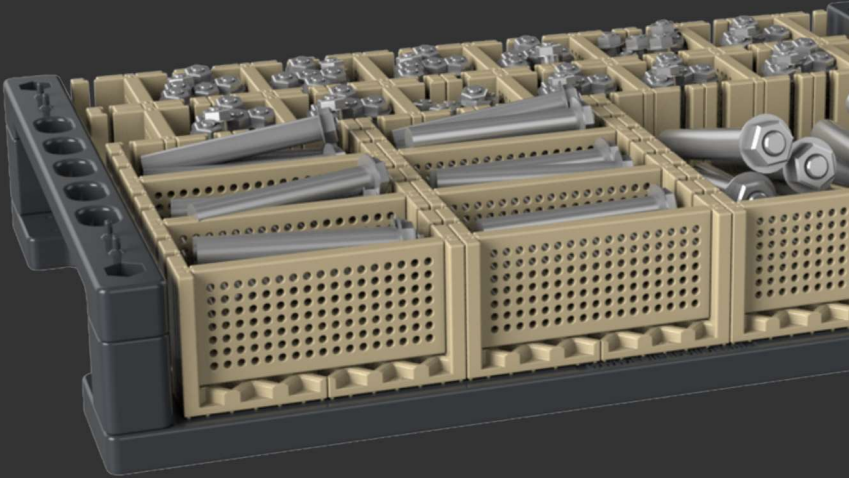


Shop Carrier light

ZELL® Box

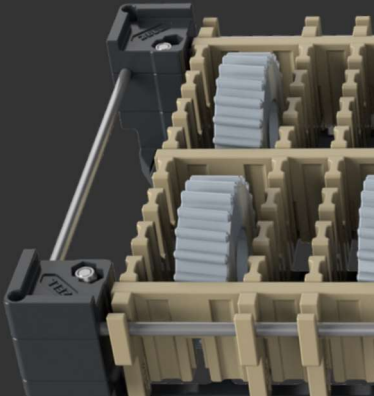
Assembly

Flexible compartments can be created on Factory/Carrier trays using special multiclips and matching divider combs.



Applications

- Handling of small series with high geometry diversity
- Simplified compartments for gentle cleaning and transport
- Fast and flexible



Technical Data

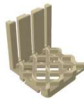
Variants	divider comb	comb height	min cell	max cell	Starting at €¹
light	52,25 105 157,5	44	10,5 x 40,25	448 x 144,75	14,60
heavy	300 400	60	25 x 20	470 x 330	ca. 65,00

- Mesh size: 3 mm

Additional components



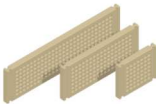
Multiclip MC10



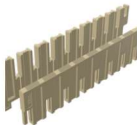
Multiclip MC11



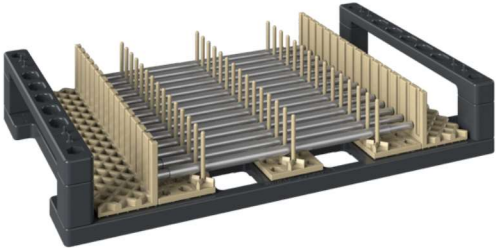
Nullclip



divider comb light



divider comb heavy

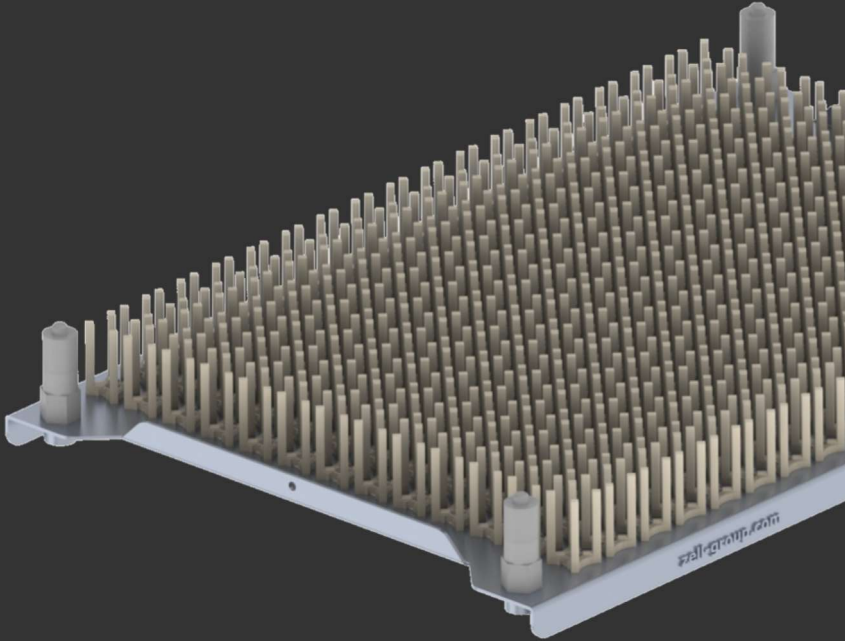


Video

ZELL® Stainless Steel

Assembly

The stainless steel carrier is manufactured as a formed and stamped sheet metal part and then assembled with spacers in various heights made of plastic or stainless steel.



Applications

- Workpiece carriers for automation, cleaning, and machine-side buffering
- Custom-manufactured surface dimensions
- Inlays for cleaning baskets and containers
- Maximum scope for customization
- Seamless integration into existing processes with the highest precision

Variants

Spacers can be made of plastic or stainless steel. Carriers available in standard or custom footprint sizes.

Technical Data

Length x Width	Carrier Height	Cavities	Basket Height	Starting at €¹
425 x 275	22-82	315	56, 104, 154, 200, 300, 400	On request
Customized	As desired	As desired	As desired	On request

- Die-cutting in a 17,5 mm

Additional components



Video

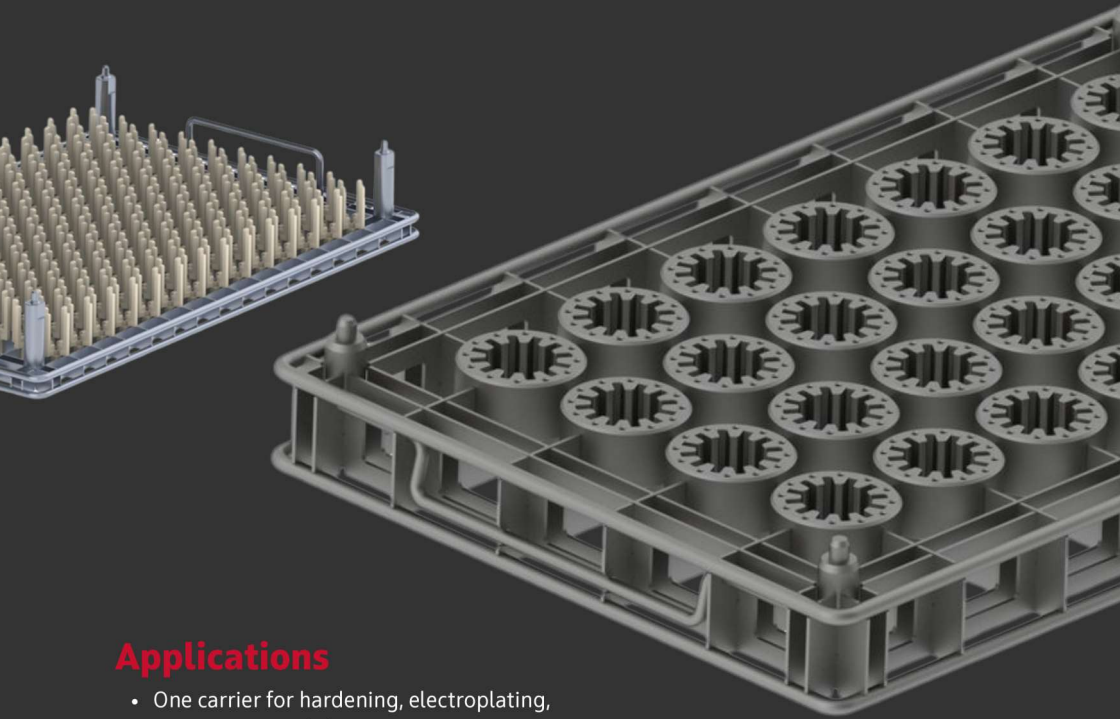


Shop stainless steel

GRID®

Assembly

The GRID® system is constructed from interlocking sheet metal parts and welded.



Applications

- One carrier for hardening, electroplating, automation, and cleaning
- Custom footprint sizes
- Dimensionally stable up to 1.200 °C for high-temperature applications

Variants

The GRIDs can be configured as high-temperature carriers or as GRID Plus with special clips for use as washing carriers.

Technical Data

Length x Width	Carrier Height	Cavities	Basket Height	Starting at €¹
425 x 275	As desired	As desired	56, 104, 154, 200, 300, 400	On request
Personalizzato	As desired	As desired	As desired	On request

- Standard clips can be screwed onto GRID Plus carriers.
- *Flat-rate surcharge for custom footprint sizes

Accessories



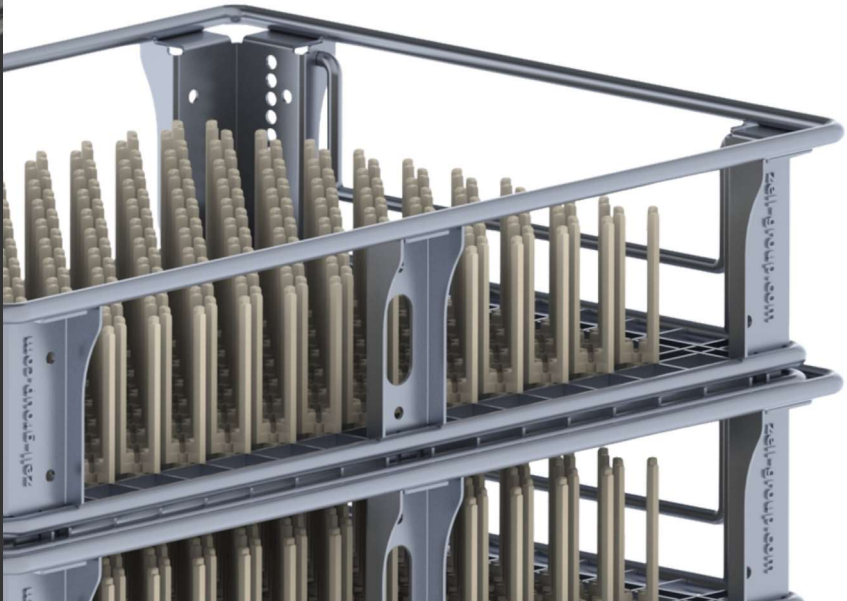
Spacers



GRID® PLUS System



GRID® System



Video

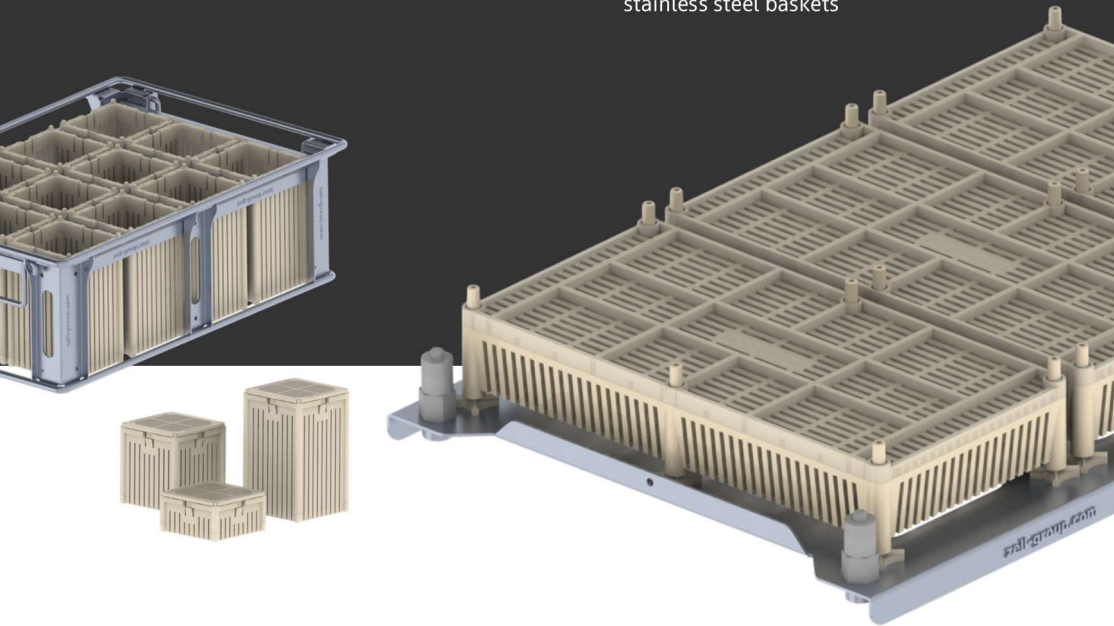
Plastic baskets

Assembly

Using special clips, our PA baskets can be positioned on carriers or inserted into larger baskets. Optional lids, divider combs, and retaining clips are available.

Applications

- Plastic baskets for the gentle transport of bulk goods
- Compatible with ZELL plastic and stainless steel workpiece carriers
- More sustainable, economical, and ergonomic alternative to conventional stainless steel baskets



Length x Width	Height	Divider combs	Mesh size	Starting at €¹
120 x 240	33	yes	2.38	9,5
155 x 255	90	Inquiry	2.5	19,75
80 x 80	46, 94, 144	no	2	4,60
40 x 40	30, 46	no	2	1,50



Video

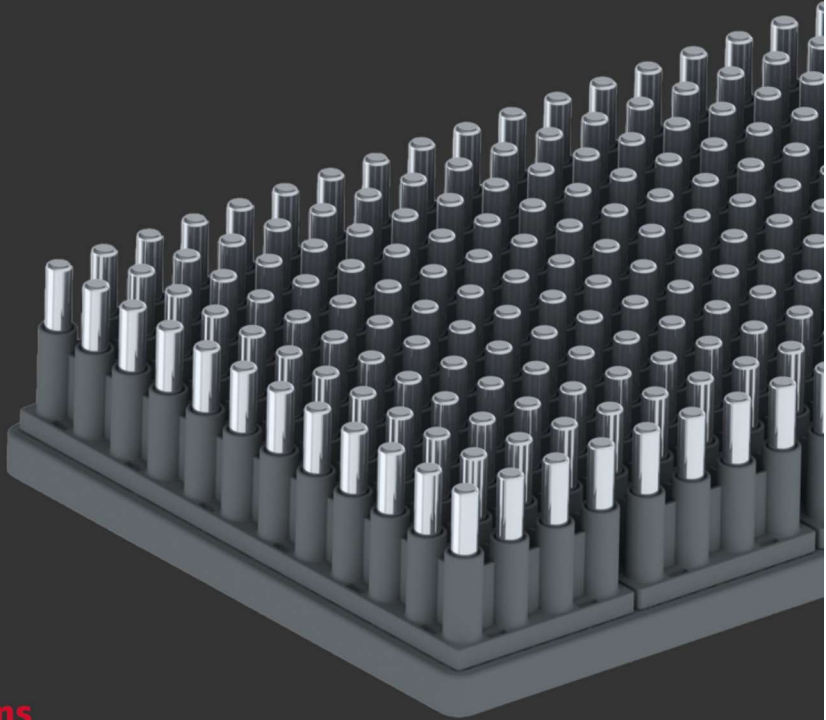


Shop PA Baskets

ZELL® Move

Assembly

The ZELL Move system consists of an injection-molded HDPE carrier.



Applications

- Workpiece carrier for automation and singulation
- Inlay adaptable for all KLT, VDA, and Euro containers with max. fill capacity
- Low additional weight, ideal for high-volume production
- Integration into existing processes with highest precision

Variants

Carriers can be manufactured from modular components or as a single-piece part.

Material Specifications

Plastic

We process Polyamide 6 with 15% and 30% glass beads (PA6 GB15, PA6 GB30). The glass bead reinforcement increases strength, stiffness, dimensional stability, and heat resistance compared to standard PA6. The material is particularly suitable for applications with high mechanical loads, shape stability, and temperature resistance. HDPE is used for lightweight inlays.

ESD versions and various colors are available on request.

Stainless steel

We use stainless steel grade 1.4301 (V2A, X5CrNi18-10) across all products. Our high-temperature GRID® is manufactured from 1.4828 (X15CrNiSi25-21).

Customer Benefits

- Heat resistance
- Chemical resistance
- High mechanical strength, improved dimensional stability
- 100% recyclable, sustainable, modular

ZELL Contact



PA6 GB30	Conditions	Standard	Unit	Value
Density		ISO 1183	g/cm ³	1.37
Moulding shrinkage, parallel		ISO 294-4, 2577	%	1 - 1.2
Moulding shrinkage, transverse		ISO 294-4, 2577	%	1.1 - 1.3
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	4200 / -
Maximum tensile stress	50 mm/min	ISO 527-1/-2	MPa	75 / -
Elongation at break	50 mm/min	ISO 527-1/-2	%	14 / -
Charpy impact strength	+23°C	ISO 179/1eU	kJ/m ²	45 / -
Charpy notched impact strength	+23°C	ISO 179/1eA	kJ/m ²	3.5 / -
Short-term heat resistance	≈ 10 min		°C	175
Long-term heat resistance	Hours		°C	135-145
Softening temperature			°C	220



Download Data Sheets

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Schedule an appointment now!