

METALLFORM

Expertise in stainless steel (wire + sheet metal)
Systems solutions and engineering



Up 20 2006 016 566.5
European patent pending

MEFO-VARIO

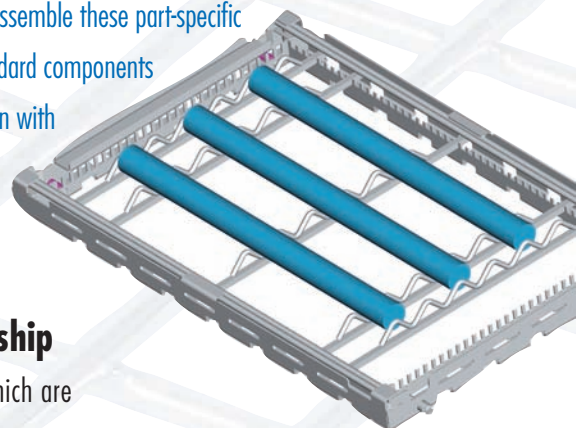
The off-the-shelf workpiece holder system
with maximum flexibility

Precise and economic cleaning of prototypes, sample parts and small p



To meet the cleanliness requirements placed on precision components in modern production, it is necessary to perform cleaning tests with prototypes, sample parts and pilot series before actual series production can be started. The results often highlight optimization potential for parts design. For those tests, part-specific trays, like those used for cleaning of complex workpieces produced in small batches, are required.

The flexible MEFO-VARIO workpiece holder system allows you to assemble these part-specific compartment, pin, loop or prism trays quickly with just a few standard components and without the need for tools. MEFO-VARIO is used in combination with our MEFO-BOX.



The MEFO-VARIO system components – in stock and ready to ship

The flexible MEFO-VARIO workpiece holder system consists of four standard components, which are in stock and ready to ship. The dimensions are matched to our MEFO-BOX Standard and Euro series.

1 | Base frame

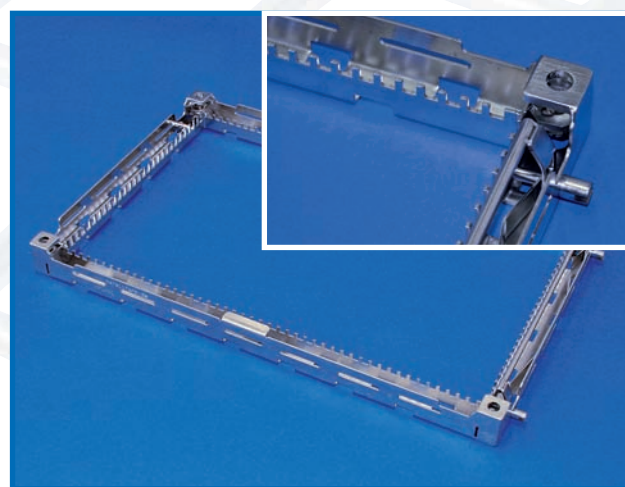
The base frame **(1)** with laser-cut grid and spring-loaded locking pins on one short side forms the basis of the MEFO-VARIO. In order to build compartment trays, compartment separators **(2a)** are inserted into the grid of the base frame lengthways and crossways. To form pin, loop or prism trays, pin **(2b)**, loop **(2c)** or prism inserts **(2d)** are inserted crossways into the grid of the base frame.

Standard series

Part No.	Outside dimension L x B x H (mm)	Weight (kg)	Fits Part No.
MF 2001	425 x 275 x 30	2,5	MF 4001/12 to MF 4004/12, MF 4008/12 lengthways as well as MF 4006/12, MF 4009/12 crossways
MF 2005	475 x 275 x 30	2,6	MF 4005/12 lengthways

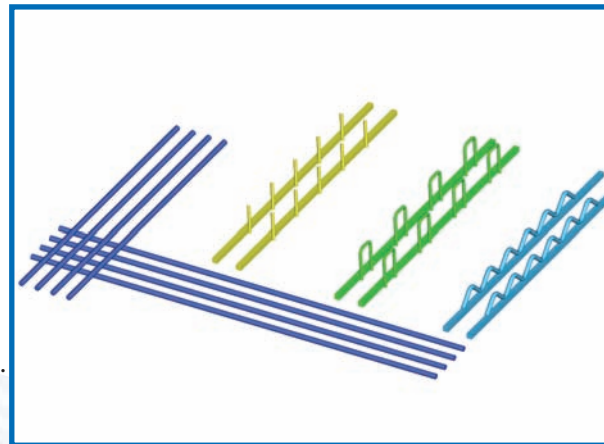
Euro series

Part No.	Outside dimension L x B x H (mm)	Weight (kg)	Fits Part No.
MF 2101	362 x 262 x 30	2,4	MF 4101/12 to MF 4103/12, MF 4107/12, MF 4109/12 lengthways as well as MF 4104/12 to MF 4106/12, MF 4108/12 crossways



2 | Compartment separators, pin, loop and prism inserts

The compartment separators **(2a)** allow compartments to be created in the base frame to fit the workpiece dimensions. Pin, loop and prism trays are constructed using the pin **(2b)**, loop **(2c)** and prism inserts **(2d)**. Depending on part geometry, parts can be hold either on their inside or their outside diameter. Compartment separators as well as pin, loop and prism inserts can be inserted quickly without the need for tools. They are fixed in place using a ball tensioner.



Standard series

Part No.	Description	Position in base frame	Length L	Diameter d	Fits Part No.
MF 2041-F	Compartment separator	crossways	270	5	MF 2001, MF 2005
MF 2042-F	Compartment separator	lengthways	410	5	MF 2001
MF 2043-F	Compartment separator	lengthways	460	5	MF 2005
MF 2041-S	Pin insert	crossways	270	5	MF 2001, MF 2005
MF 2041-B	Loop insert	crossways	270	5	MF 2001, MF 2005
MF 2041-P	Prism insert	crossways	270	5	MF 2001, MF 2005

Euro series

Part No.	Description	Position in base frame	Length L	Diameter d	Fits Part No.
MF 2141-F	Compartment separator	crossways	257	5	MF 2101
MF 2142-F	Compartment separator	lengthways	347	5	MF 2101
MF 2141-S	Pin insert	crossways	257	5	MF 2101
MF 2141-B	Loop insert	crossways	257	5	MF 2101
MF 2141-P	Prism insert	crossways	257	5	MF 2101

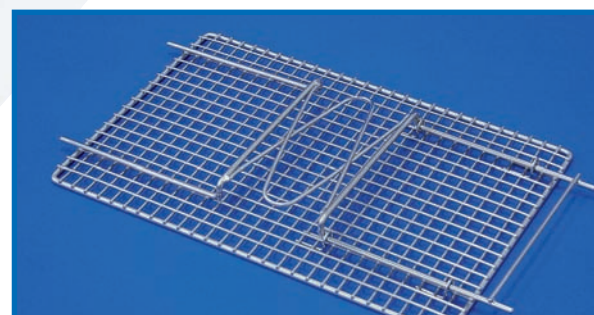
3 | MEFO-BOX

The workpiece holder system is positioned in the MEFO-BOX cleaning and transport basket and then loaded with parts.



4 | Adjustable lid

The adjustable lid prevents light parts from floating up when the chamber is flooded or stops workpieces from falling out during swivelling or rotating cleaning operation and during spray cleaning.

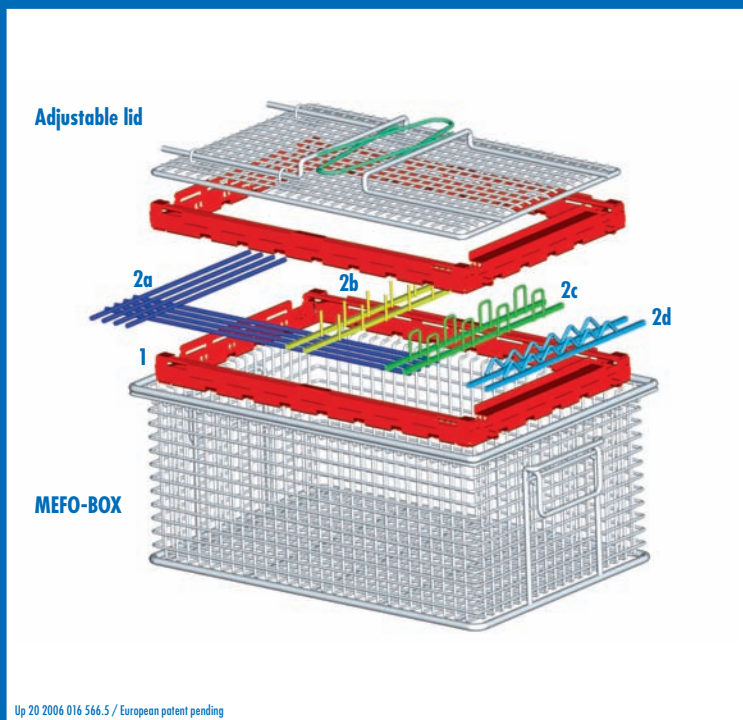


Convincing advantages

- Universally usable standard components
- Fast adjustment to changing component geometry
- Simple handling without tools
- Large range of parts can be cleaned due to flexible assembly as compartment, pin, loop or prism tray
- Short setup times, as several pins/loops/prisms are attached to one pin/loop/prism insert
- Safe and precise cleaning of individual parts, prototypes, sample parts, pilot series and small production batches
- Cleaning results that support cleaning-optimized component design
- High process reliability, especially during swivelling and rotating cleaning operation
- Few individual components
- Everything is made entirely from electrolytic polished stainless steel
- Affordable system, in stock and ready to ship

Metallform – Partner with know-how and experience

Structure of the MEFO-VARIO



Top grade stainless steel

The material — stainless steel with electrolytic polished surface — guarantees a long life time of the workpiece holder system and eliminates the risk of residual contamination from the workpiece holder system to the component, as well as corrosion and zinc separation. For cleaning particularly sensitive parts, the surfaces that come into contact with the workpieces can be HALAR coated or equipped with special Teflon clips.



Quality made in Bretten

It's a matter of know-how.

Our strengths are our in-house design and manufacturing. For our customers this means consistently high quality, price stability and adherence to delivery dates – no matter how large or small the order.

DIN EN ISO 9001:2000

»It's quality that counts«

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