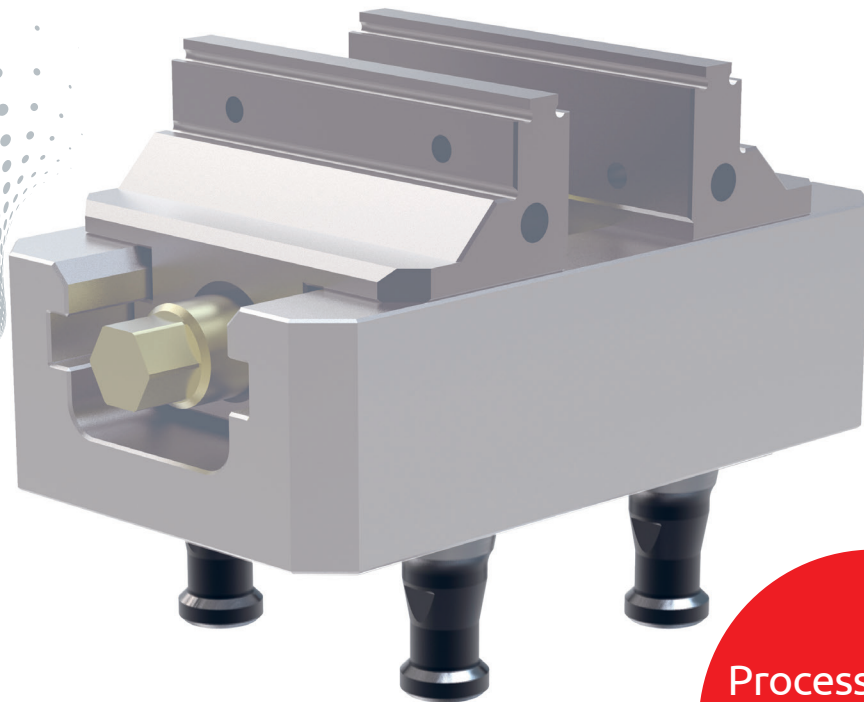


VPC tooling system

The solution for clamping technology
with pitch dimensions 52/96



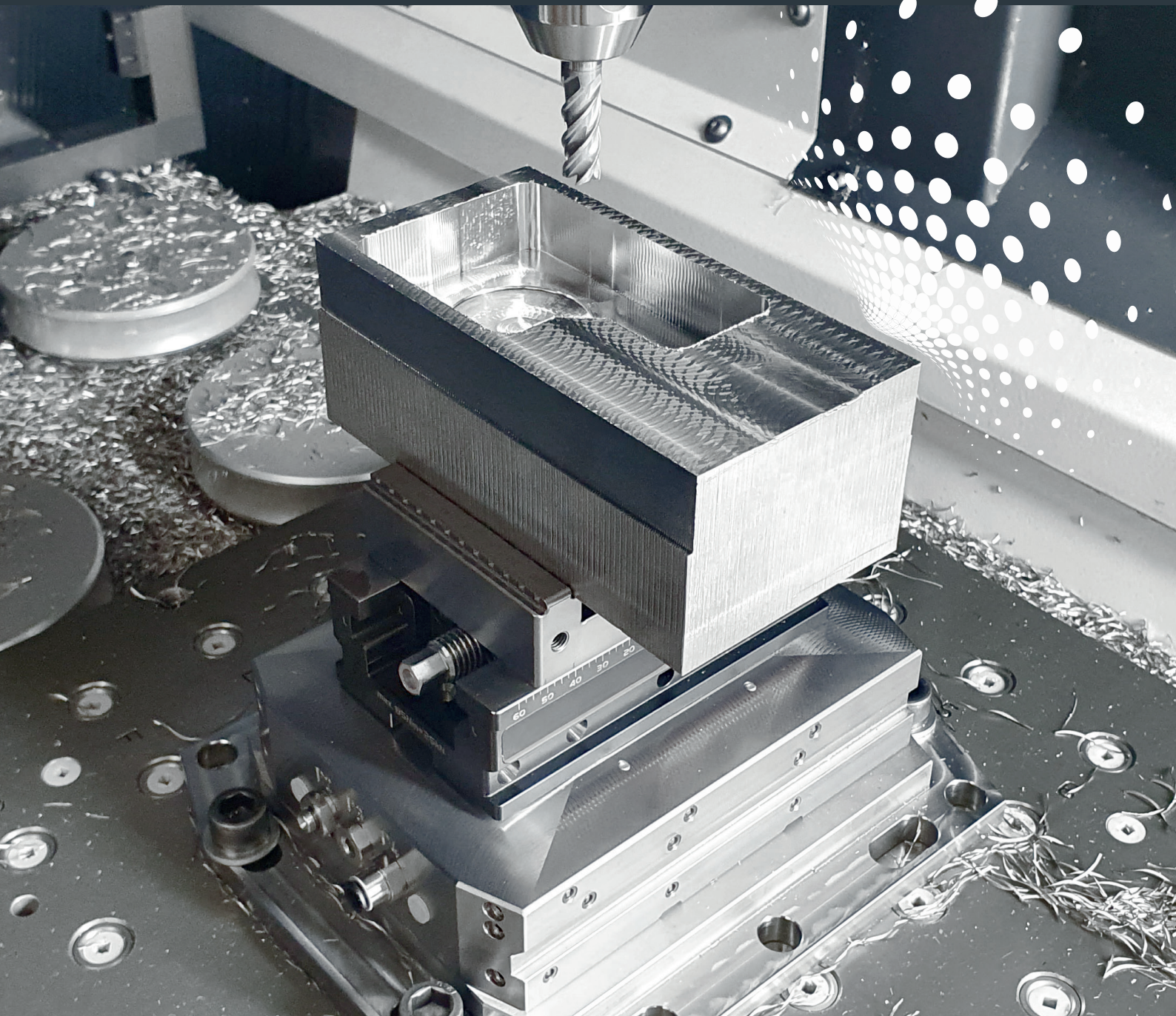
Process-reliable
automation
of vises



EROWA Vise Power Clamp (VPC)

The Vise Power Clamp system delivers what it promises: powerful, precise, and process-reliable clamping of vises, fixtures and workpieces with pitch dimensions 52 & 96 mm.

The two VPC chuck sizes with the matching VPC clamping spigots form the core. The universal application possibilities open up the greatest flexibility in workpiece production.





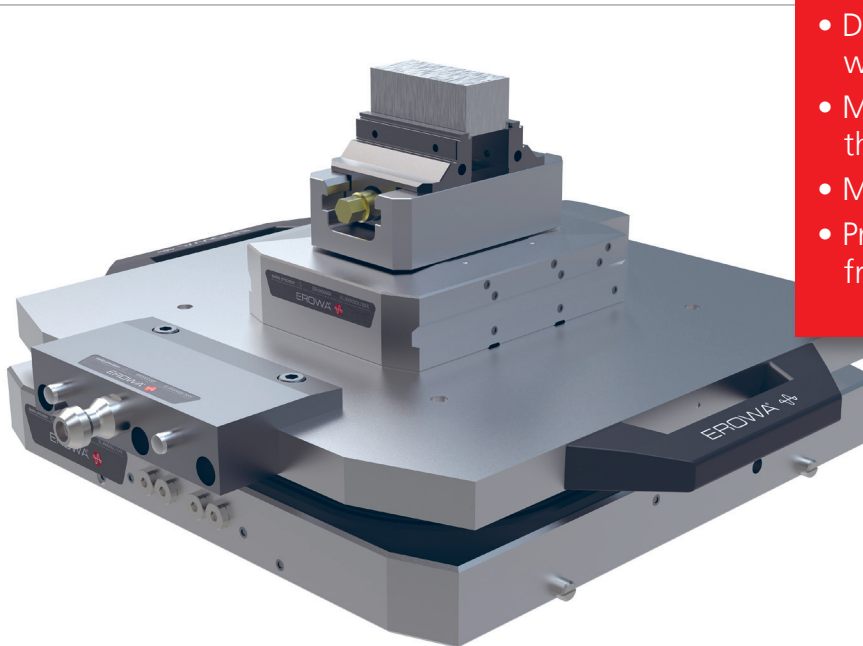
VPC Chuck 52



VPC Chuck 96

The two system sizes form the core of EROWA VPC:

- VPC 52 chuck & clamping spigot for pitch 52 mm
- VPC 96 chuck & clamping spigot for pitch 96 mm



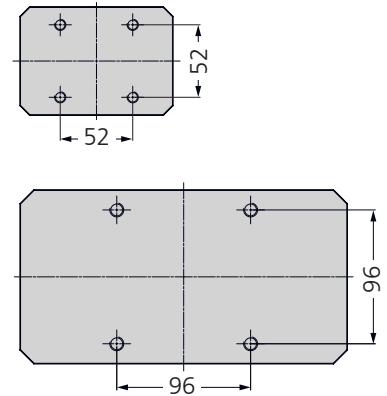
THE FACTS

- Accommodates all vises with pitch 52/96 mm
- Direct clamping of fixtures and workpieces
- Maximizing manufacturing flexibility through the use of adapter pallets
- Manual or automated handling
- Process-safe work-holding for trouble-free automation

Adapt different system sizes with each other. With adapter pallets, the VPC tooling system can be flexibly integrated into the EROWA UPC and MTS systems.

Integrate and profit

All vises, fixtures, and workpieces available on the market with prepared pitch dimensions 52 and 96 mm are quickly and easily accommodated in the EROWA VPC tooling system. This way they are integrated into the highly flexible EROWA manufacturing philosophy.

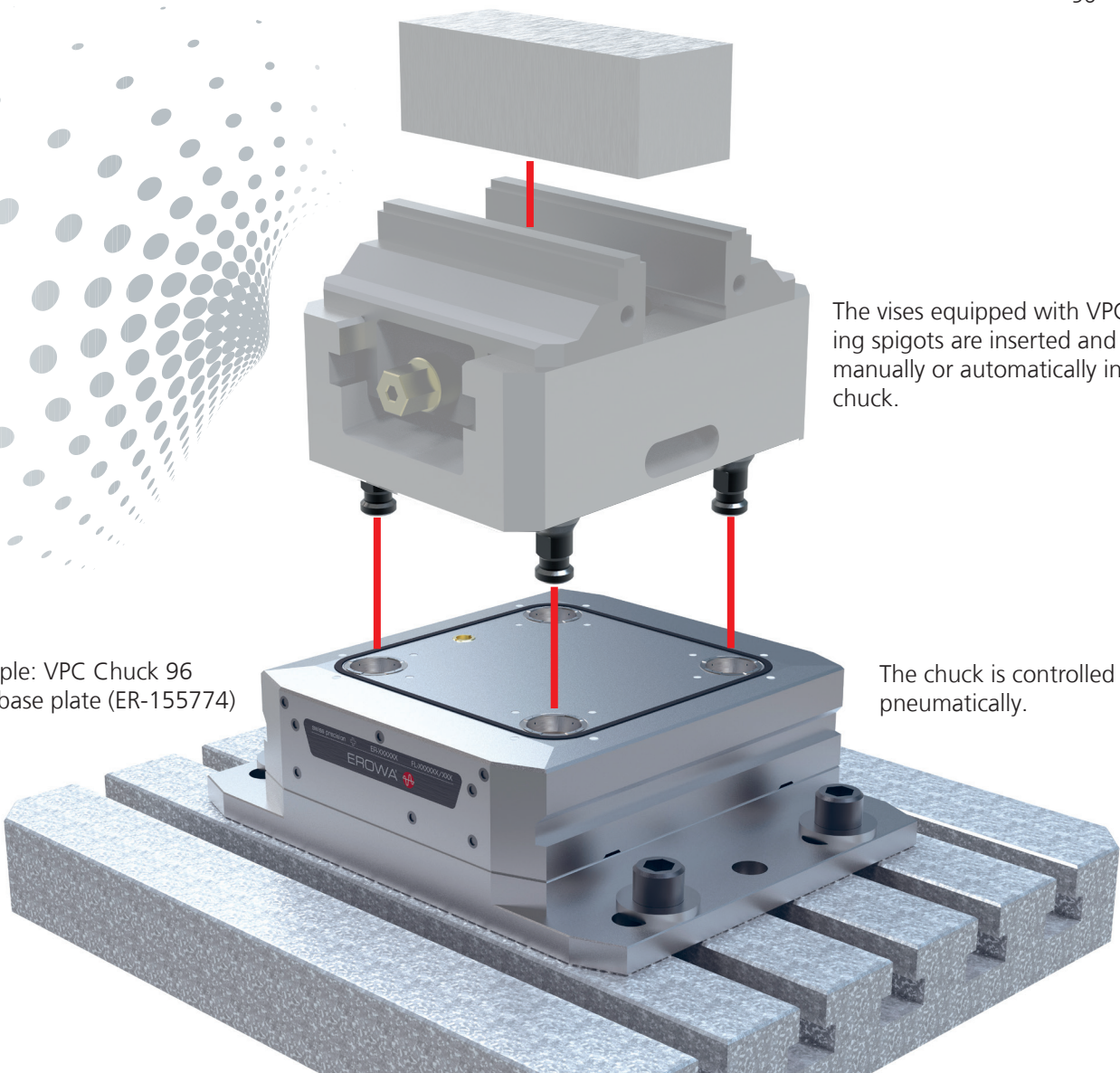


VPC chucks can be mounted directly or via a base plate on the machine table.

Example: VPC Chuck 96 with base plate (ER-155774)

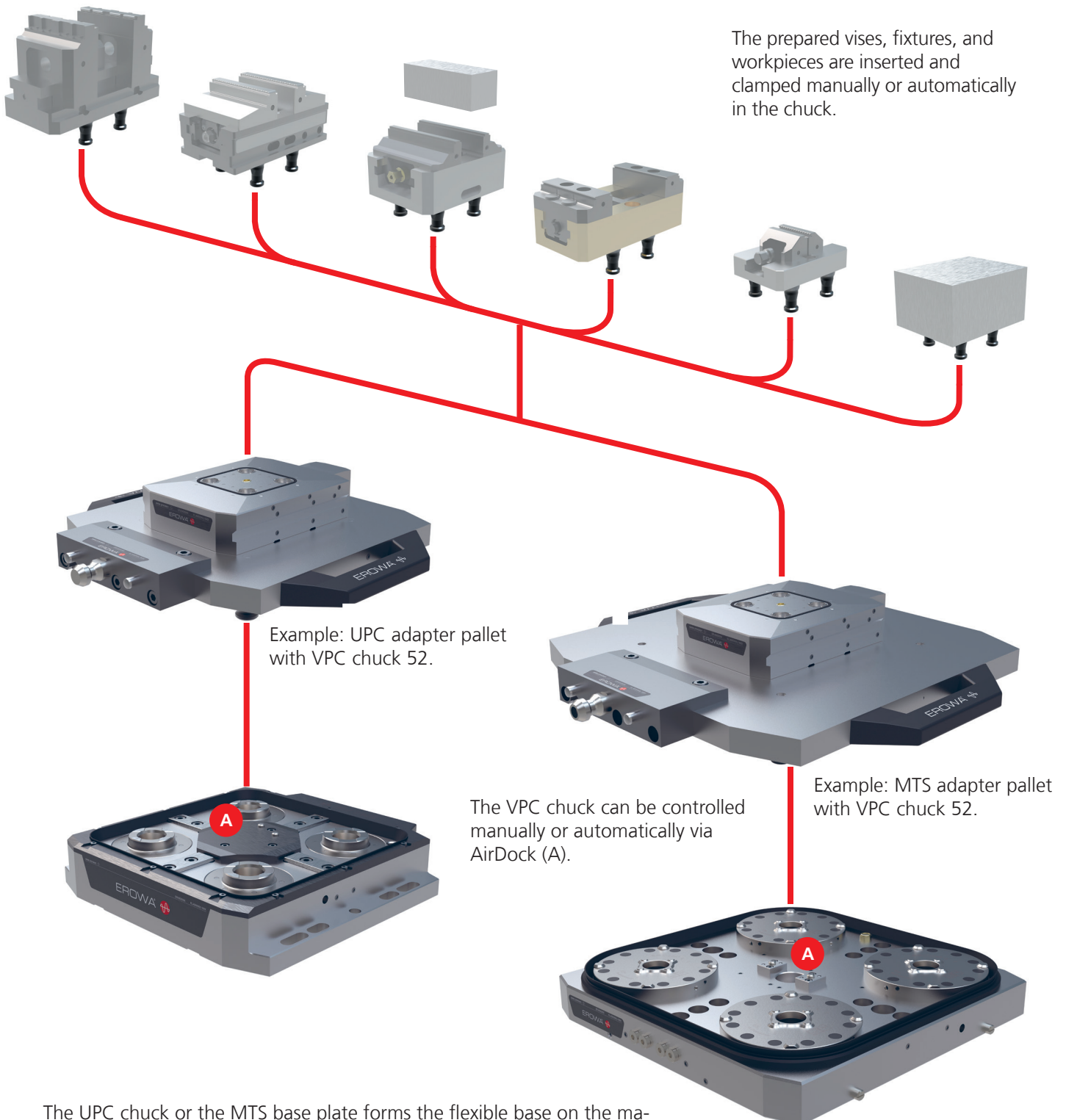
The vises equipped with VPC clamping spigots are inserted and clamped manually or automatically in the chuck.

The chuck is controlled pneumatically.



Or you can go one step further and maximize your manufacturing flexibility by integrating the VPC chucks on adapter pallets.

Adaptation examples with EROWA UPC & MTS are shown here:



The UPC chuck or the MTS base plate forms the flexible base on the machine table. This means that, in addition to conventional workpiece carriers (pallets), you can also use adapter pallets with other EROWA clamping systems, such as VPC 52 or VPC 96, as required.

Technical highlights

The Vise Power Clamp tooling system is based on proven, functional, and carefully designed EROWA clamping technology.

EROWA VPC is characterized by:

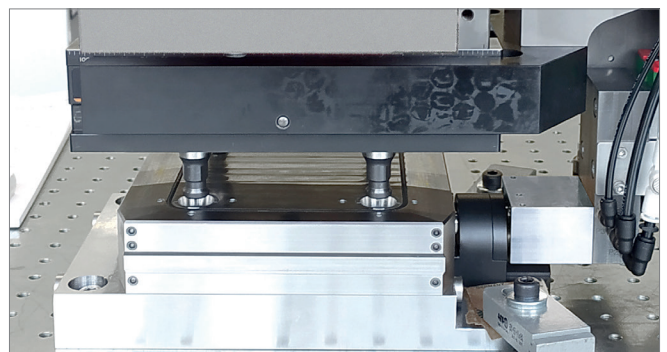
- Maximum process reliability
- Integrated support cleaning & monitoring function
- Re-tensioning function for best performance
- Ultimate precision (repeatability < 0.003 mm)
- Circumferential sealing
- Compact design for ideal accessibility



Preparation of vises, fixtures, and workpieces is simple:
Screw in chucking spigot 52 or 96 and tighten – done!



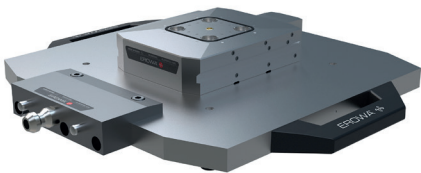
Optimized insertion behavior of the clamping spigots in automated operation.



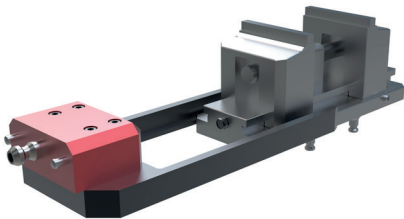
Automation options

Automated loading significantly increases productive hours on your machine tool. EROWA offers the right automation option depending on your needs. We will be happy to advise you on your individual VPC automation solution!

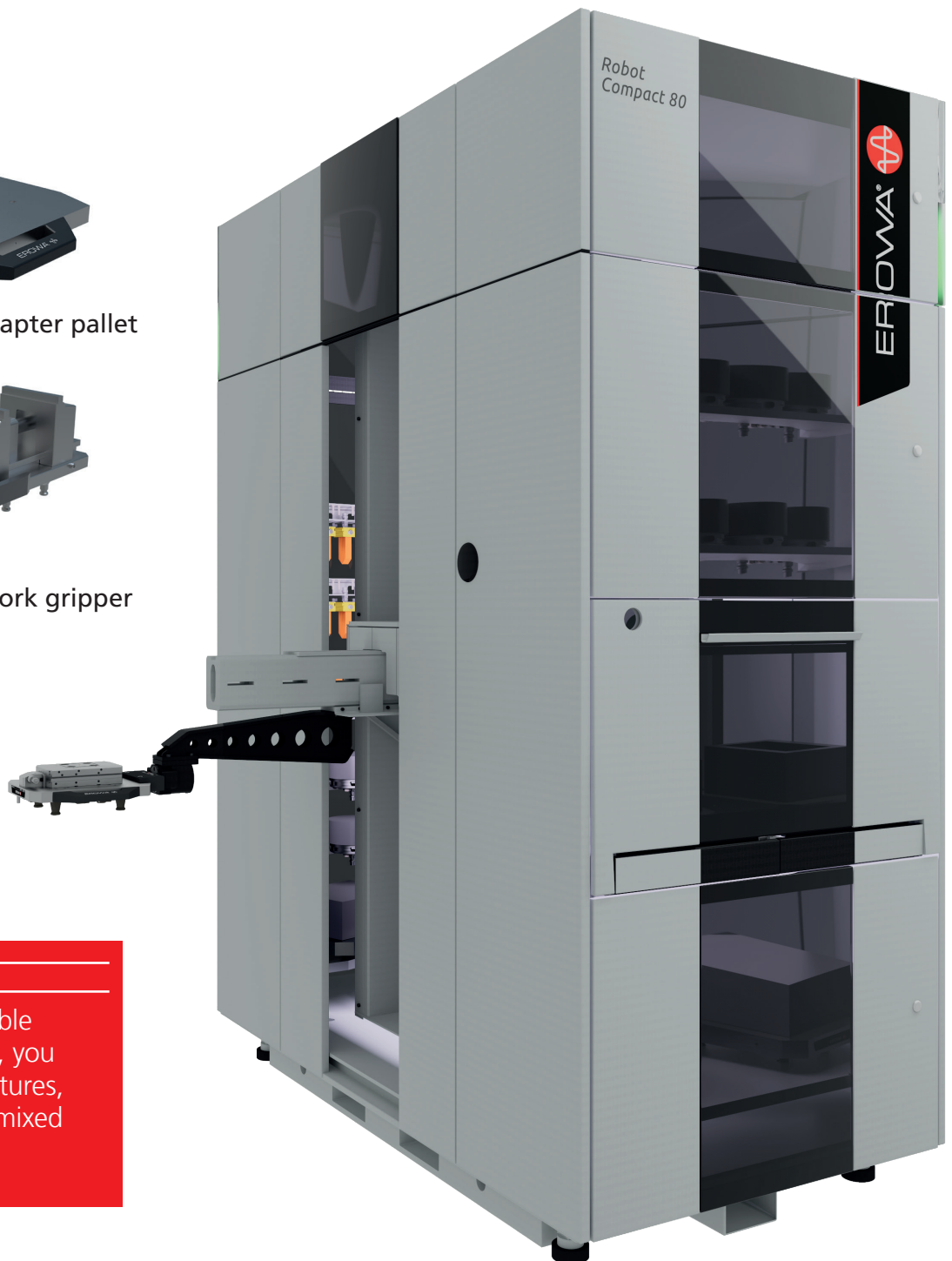
Examples:



VPC Chuck 52 on MTS adapter pallet



Clamp with customized fork gripper



FULL FLEXIBILITY

With EROWA FMC (Flexible Manufacturing Concept), you can automate pallets, fixtures, workpieces and vises in mixed operation.

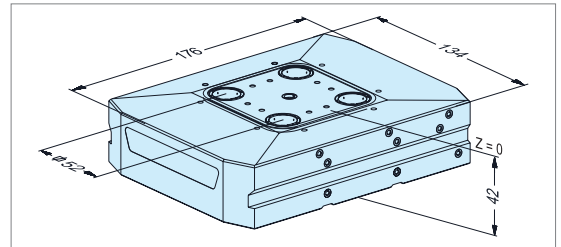
VPC chucks

Technical data VPC	VPC chucks
Repeatability with chucking spigot	< 0.003 mm
Indexing	4 x 90°
Clamping power (with reclamping)	18,000 N
Clamping	with spring tension (clamped without pressure)
Opening with dry compressed air	min. 6 bar
Number of air ducts:	min. 2 (opening & reclamping) Optional: + 1 (for cleaning / presence control)

ER-150890 VPC Chuck 52 without base plate



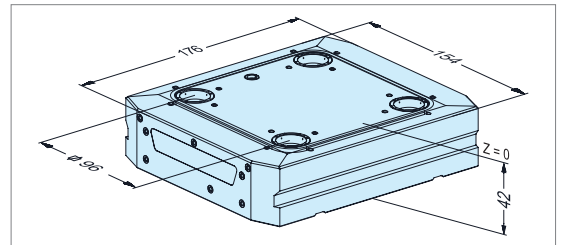
- Version** Automatable chuck with a 52 mm pitch. Compact design of L 176 x W 134 x H 42 mm. Without base plate.
- Connections** Laterally and from below: to open, reclamp and clean / presence check.
- Application** To accommodate workpiece holders, pallets and fixtures which have been prepared with a pitch of 52 mm and VPC chucking spigots 52.
- To be fitted** Directly onto the machine table, base plates and pallets with lateral brackets, or to be fitted from below with 6xM8 bolts (attachment material not included in the package supplied).



ER-150892 VPC Chuck 96 without base plate



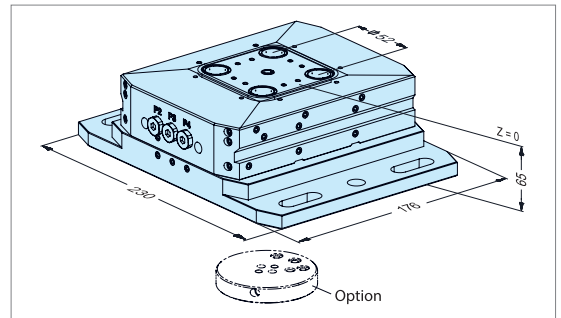
- Version** Automatable chuck with a 96mm pitch. Compact design of L 176 x W 154 x H 42 mm. Without base plate.
- Connections** Laterally and from below: to open, reclamp and clean / presence check.
- Application** To accommodate workpiece holders, pallets and fixtures which have been prepared with a pitch of 96 mm and VPC chucking spigots 96.
- To be fitted** Directly onto the machine table, base plates and pallets with lateral brackets, or to be fitted from below with 6xM8 bolts (attachment material not included in the package supplied).



ER-155772 VPC Chuck 52 with base plate 176 x 230 mm

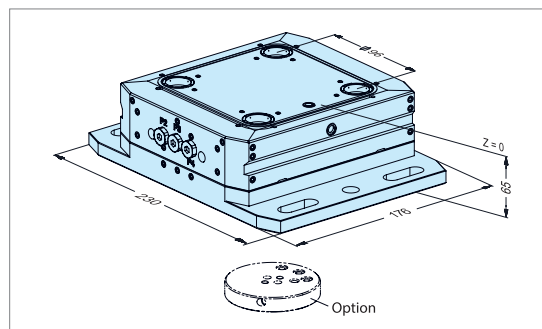


- Version** Automatable chuck with a 52 mm pitch. Including base plate L 176 x W 230 x H 65 mm.
- Connections** Laterally and from below (option): for opening, reclamping and cleaning/presence check.
- Application** To accommodate workpiece holders, pallets and fixtures which have been prepared with a 52 mm pitch and VPC chucking spigots 52.
- To be fitted** Mounting hole pattern for 50 mm/M12 grid and for machine table with a T-slot distance of 50/63/80/100 mm (bolts and T-nuts are not included in the package supplied).
- Option** Chuck control possible from below with a suitable adapter (on request).



**ER-155774 VPC Chuck 96
with base plate 176 x 230 mm**

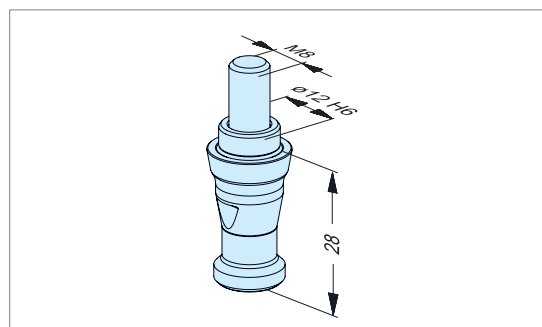

- Version** Automatable chuck with a 96 mm pitch. Including base plate L 176 x W 230 x H 65 mm.
- Connections** Laterally and from below (option): for opening, reclamping and cleaning/presence check.
- Application** To accommodate workpiece holders, pallets and fixtures which have been prepared with a 96 mm pitch and VPC chucking spigots 96.
- To be fitted** Mounting hole pattern for 50mm/M12 grid and for machine table with a T-slot distance of 50/63/80/100mm (bolts and T-nuts are not included in the package supplied).
- Option** Chuck control possible from below with a suitable adapter (on request).



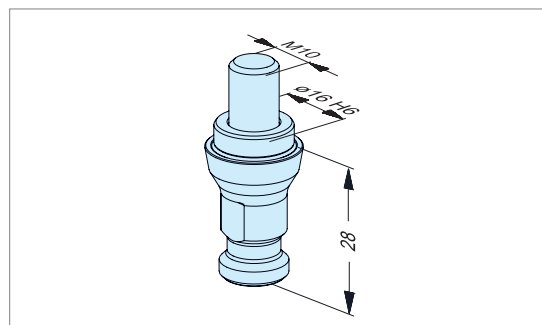
VPC chucking spigots

**ER-150897 VPC chucking spigot 52
4 pieces**


- Version** 4 centering spigots. Steel, hardened, ground.
- Application** In combination with VPC Chuck 52. To be fitted to work-piece holders, pallets and fixtures that have been prepared with a 52mm pitch.
- To fit** With open-ended wrench, wrench width 11mm, 9Nm.


**ER-150898 VPC chucking spigot 96
4 pieces**


- Version** 4 centering spigots. Steel, hardened, ground.
- Application** In combination with VPC Chuck 96. To be fitted to work-piece holders, pallets and fixtures that have been prepared with a 96mm pitch.
- To fit** With open-ended wrench, wrench width 11mm, 18Nm.



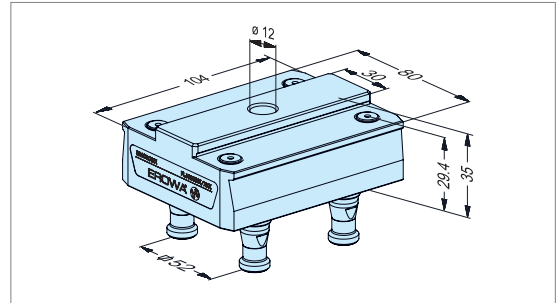
VPC auxiliary equipment

ER-155470 VPC alignment pallet 52



Version VPC alignment pallet with ground alignment surface, four Z-measuring surfaces and a $\varnothing 12$ mm center borehole.

Application Alignment of the angle position and determination of the center and the Z-values of VPC Chuck 52.

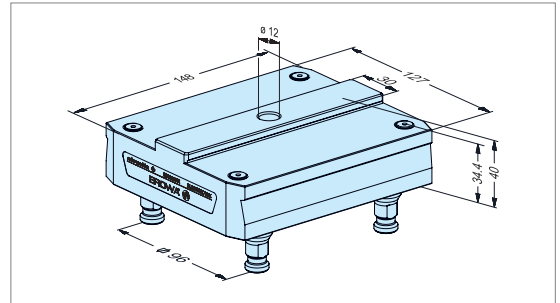


ER-155480 VPC alignment pallet 96



Version VPC alignment pallet with ground alignment surface, four Z-measuring surfaces and a $\varnothing 12$ mm center borehole.

Application Alignment of the angle position and determination of the center and the Z-values of VPC Chuck 96.

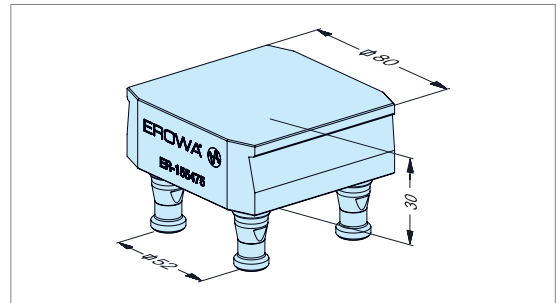


ER-155475 VPC cover 52



Version Aluminum, anodized. Including 4 chucking spigots.

Application Manual. Prevents the intrusion of dirt and chips into VPC Chuck 52.

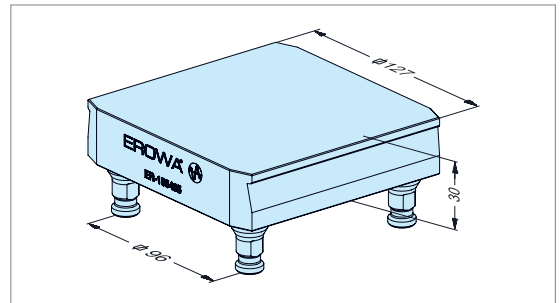


ER-155485 VPC cover 96



Version Aluminum, anodized. Including 4 chucking spigots.

Application Manual. Prevents the intrusion of dirt and chips into VPC Chuck 96.



ER-155220 Base plate 176 x 230 mm universal for VPC Chuck 52 & 96

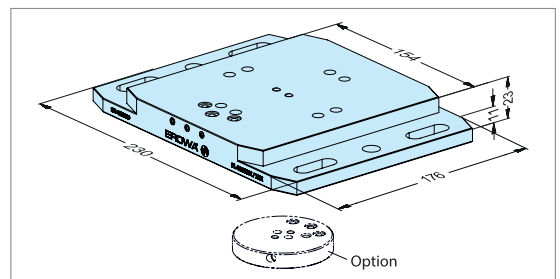


Version Height 23 mm; steel, unhardened. Including attachment components for VPC Chuck.

Application As interface between VPC Chucks 52 & 96 and the machine table.

To fit Attachment bore pattern for 50 mm grid/M12 and for machine tables with T-slot distances of 50/63/80/100 mm (bolts and T-nuts are not included in the package).

Option Chuck control possible from below with the corresponding adapter (on request).

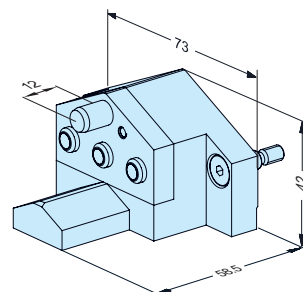


ER-153425 Automation AirDock for chuck 52 & 96

auto ☐ ☐ ☐ ☐



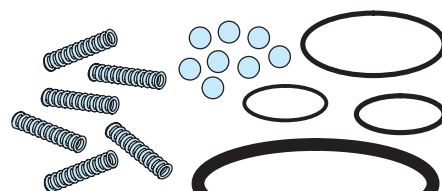
Version AirDock with 3 valves, consisting of AirDock, support and attachment components.
 Application For the automated control on VPC Chucks 52 & 96.
 To fit AirDock: to be fitted laterally to VPC Chucks 52 & 96.
 Support: into the customer-specific base plate according to instructions.

**ER-155498 Spare seal for VPC chuck 52**

Version 1 sealing ring suitable for VPC Chuck 52.
 Application Remove existing seal, prepare spare seal and glue in according to instructions supplied.

**ER-155499 Repair kit to VPC chuck 52**

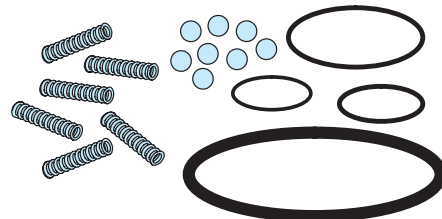
Version All the wearing parts for VPC Chuck 52.
 Application Dismantle chuck according to instructions supplied and replace parts.

**ER-167498 Spare Seal for VPC Chuck 96**

Version 1 sealing ring suitable for VPC Chuck 96.
 Application Remove existing seal, prepare spare seal and glue in according to instructions supplied.

**ER-167499 Repair kit to VPC Chuck 96**

Version All the wearing parts for VPC Chuck 96.
 Application Dismantle chuck according to instructions supplied and replace parts.



EROWA - Manufacturing automation at its best

EROWA AG, founded in Switzerland in 1971, is now a globally operating organization specializing in the development, production, consulting, and distribution of state-of-the-art manufacturing technology for tool and mold making, as well as for production and precision engineering. With their headquarters located in central Switzerland, EROWA ranks among the world's leading companies in clamping technology and automation. Having 13 subsidiaries and 22 representatives, EROWA offers international points of contact and worldwide customer service.



Empowering Your Production

The next step towards greater efficiency, precision and productivity starts now. With EROWA, you have a partner who will optimize your production holistically - from clamping technology to automation and process control. Our innovative solutions adapt flexibly to your requirements and grow with you - for production that is ready for tomorrow.

Get in touch with us - we will be happy to assist you.



EROWA - Contacts
international