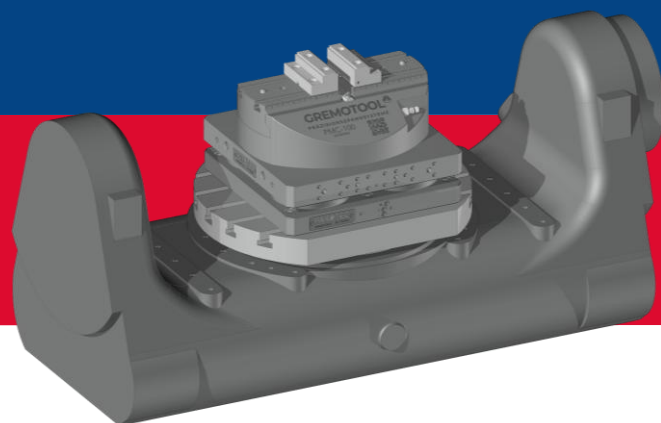


Parotec

Gremotool clamping devices with Parotec



swiss
made

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Overview

Gremotool clamping devices with Parotec

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Product presentation

Gremotool clamping devices with Parotec

The **automated production** requires flexible and precise clamping devices. Parotec's zero-point clamping system provide a larger part of this flexibility. Different clamping devices require a common interface so that they can be customized to the requirements of the workpiece to be clamped. The ideal solution is clamping devices of Gremotool, which precisely connect the workpiece and the zero-point clamping system.



Product presentation

Advantages Gremotool with Parotec

Clamping force

The high clamping forces of the Gremotool clamping devices can be influenced by torque or pressure. This makes it possible to clamp plastic workpieces without deformation and forged parts with a secure hold without damaging the clamping system.

Centring precision

The design of all Gremotool centring vices guarantees the user precise centring of ± 0.02 mm in the centre of the clamping device.

Accessibility

The Gremotool clamping devices are suitable for various application scenarios. Accessibility for the processing machine is a key element in enabling the best possible processing strategy. They can be used directly on the zero-point clamping system, on pallets or on towers.

Compact

The compact power package fit into any machine and guarantee a firm hold of the workpiece for machining. The solid construction with low weight also allows manual re-tooling.

Enclosed and low maintenance

Due to the design of the centre clamps, no chips remain in the clamping device. This means that all components are subject to less wear, which reduces maintenance to a minimum.

Short set-up times

Gremotool clamping devices are all equipped with various connection options. No special versions for standard pallets are required to change the clamping devices, precision pins and screws are loosened and tightened again.

Large range of jaws

The jaws on all Gremotool centre clamps are interchangeable. From gripping jaws to soft jaws made of aluminium, no requirements remain unfulfilled for the demands placed on the workpieces.

Automating the process

If special requirements of the automation are placed on the clamping devices, the Gremotool clamping devices are ideal. The clamping devices can be equipped with various interfaces, including those integrated directly into the clamping device. This allows the machining area of the machine to be utilised even more optimally.

Short delivery times

The short delivery times of jaws allows to work quickly and flexibly with the Gremotool range of jaws.

Get started immediately

A pair of gripper jaws is supplied with each clamping device at no extra cost, allowing you to clamp raw parts at no additional costs.

Product presentation

Power-Grip zero-point clamping system from Parotec

Parotec Power-Grip system

The Parotec Power-Grip system clamps the pallets mechanically, with a system accuracy of ≤ 0.005 mm. Thanks to the mechanical clamping, the system remains clamped at all times, even in the event of a power failure. When the medium is applied, the internal mechanism is activated, which then releases the centring and clamping sleeves and lifts them slightly. All Parotec Power-Grip zero-point clamping systems are suitable for automated production, as they feature an integrated blow-off system to prevent the ingress of swarf. Access to the clamping mechanism from above facilitates maintenance and does not require the complete centring unit to be dismantled.

Power-Grip system	Clamping force * release	Clamping force without retightening	Retightening **	Clamping force with retightening
Pneumatical	50'000 N * 6 bar	12'000 N	6 bar **	28'000 N
Hydraulic	50'000 N * 30 bar	22'000 N	6 bar **	40'000 N

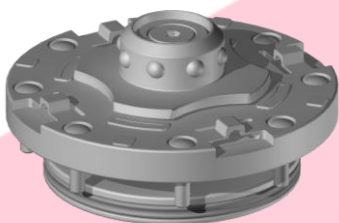
* The force at which the clamping system continues to function correctly. Within this force range, the system remains securely clamped without causing any permanent deformation or damage.

** Retightening of the clamping system is optional and is carried out pneumatically for both drive variants.

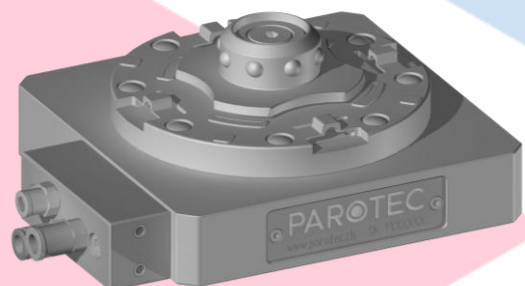
Centring unit and pallet carrier

The zero-point clamping systems are available in various versions. Each version is designed for a specific purpose.

Centring unit



Pallet carrier



- | | |
|--|---|
| <ul style="list-style-type: none"> - Cost-effective and space-saving installation in plates, workbenches, measuring machines, towers, etc. - Installation in a precisely drilled hole for cylinder pistons | <ul style="list-style-type: none"> - Precise, ready-to-fit plate with integrated centring units - Can be mounted on tables, plates, towers, etc. using countersunk screws or clamps |
| <ul style="list-style-type: none"> - Open cylinder | <ul style="list-style-type: none"> - Closed cylinder |

Product presentation

Power-Grip zero-point clamping system from Parotec

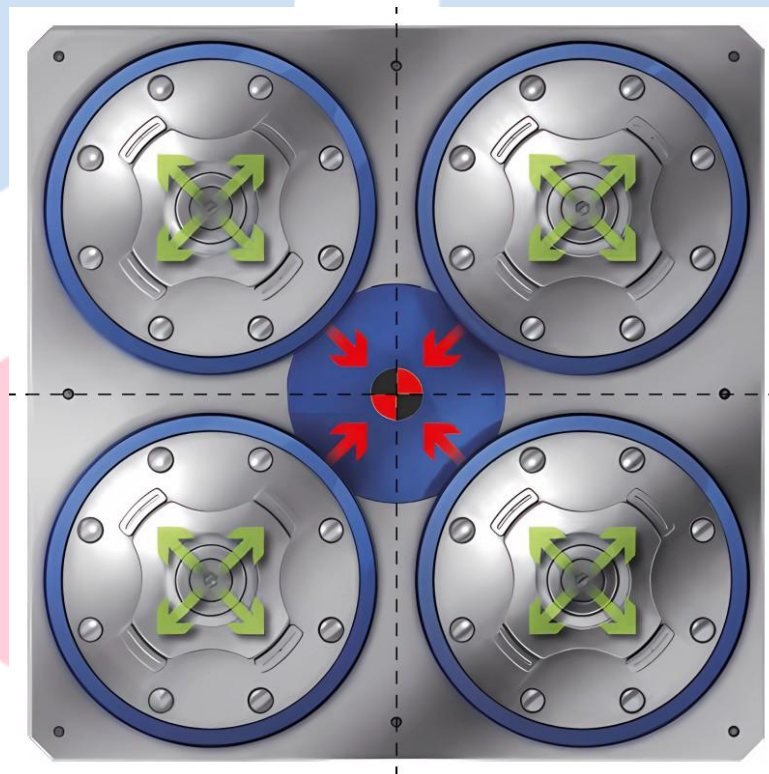
Parotec Power-Grip system

Thanks to the unique design of Parotec's centring units and pallet carriers, no clamping pins are required. The centring units used ensure play-free centring through the axial spring action of the centring lips. When the centring and clamping sleeves are used, no clamping pins protrude from the bottom of the pallet.

In centring units with an index, the indexing elements are spring-loaded in the same way as the centring lips, ensuring that the zero point remains unchanged.

Zero point

The Parotec Power-Grip System requires only one type of centring and clamping sleeve. The system self-compensates and automatically sets the zero point at the centre. Temperature changes are evenly compensated for across all four centring units.



Pallet carrier with 4 centring units and the zero point in the centre

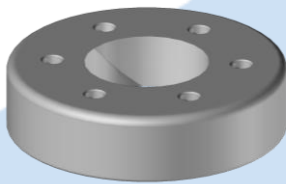
Product presentation

Power-Grip zero-point clamping system from Parotec

Parotec Power-Grip Centring and Clamping Sleeves

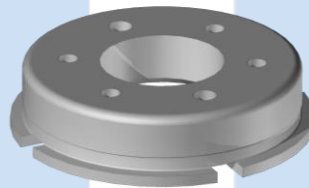
There are three different centring and clamping sleeves available for the Power-Grip zero-point clamping system.

Centring and Clamping Sleeve Standard



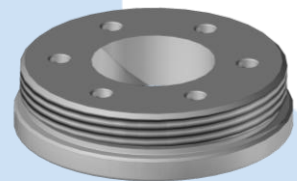
For Power-Grip pallet carriers with at least 2 centring units.

Centring and Clamping Sleeve Index



Power-Grip centring units with index can be fitted individually on single-unit pallet carriers.

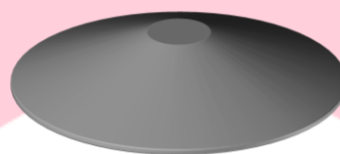
Centring and Clamping Sleeve Screw-in version



For Power-Grip pallet carriers with at least 2 centring units. The installation depth is reduced by screwing the unit in.

Parotec Power-Grip Chip Protection

The Parotec Power-Grip Chip Protection is available to prevent harmful chips and coolants from entering unused centring units. The chip protection also serves to monitor contact.

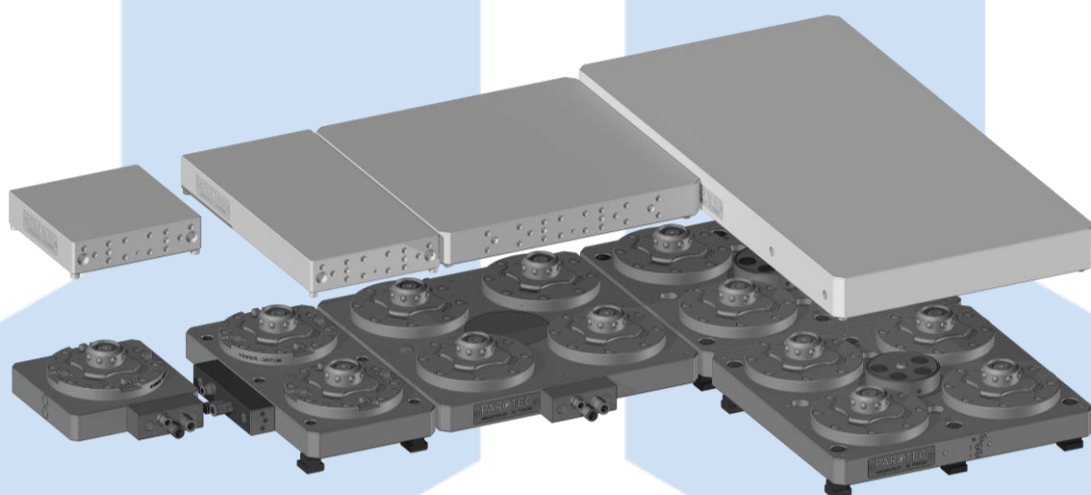


Product presentation

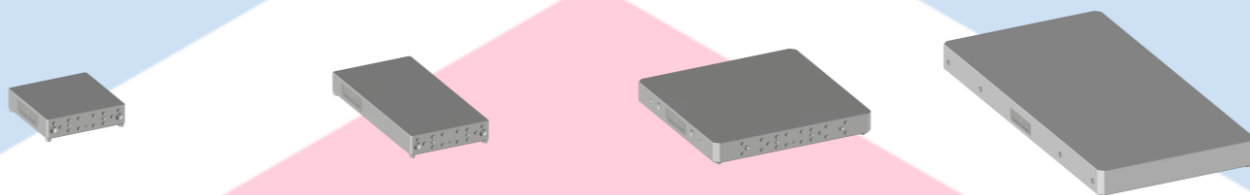
Power-Grip pallets and pallet carriers

Pallets at a glance

Available in tool steel or high-strength aluminium.



From left to right:

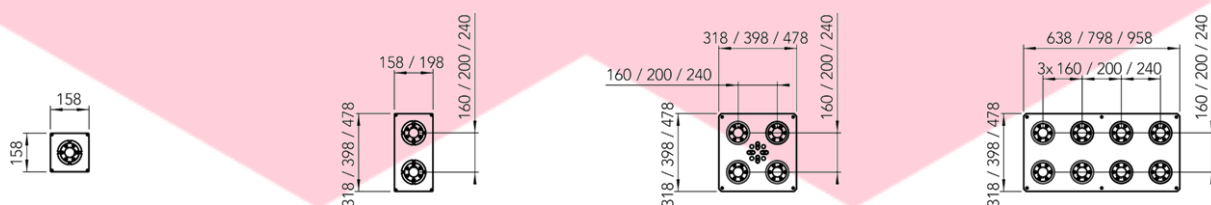


1-fold pallet

2-fold pallet

4-fold pallet

8-fold pallet



1-fold pallet carrier

2-fold pallet carrier

4-fold pallet carrier

8-fold pallet carrier

Product presentation

PMC-50 with Power-Grip 1-fold pallet

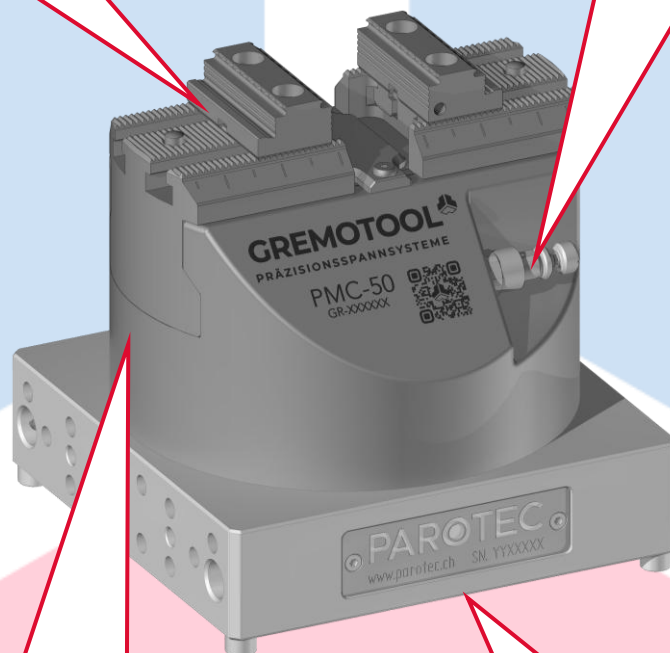
pneumatic /
hydraulic

Gremotool system of jaws

- + interchangeable between series
- + quick change of jaws
- + protruding jaws possible

Enclosed design with valve

- + ideal chip flow
- + 3-fold clamping reliability
- + adjustable clamping force by valve



Centring precision $\pm 0.01\text{mm}$

- + precision for multi-axis machining
- + high repeat precision
- + reduces vibrations on the workpiece

Suitable with pallets of Parotec

- + designed for automation
- + deep for larger workpiece in machine
- + RFID-Chip attachable

Product presentation

2x SC-100 with Power-Grip 4-fold pallet

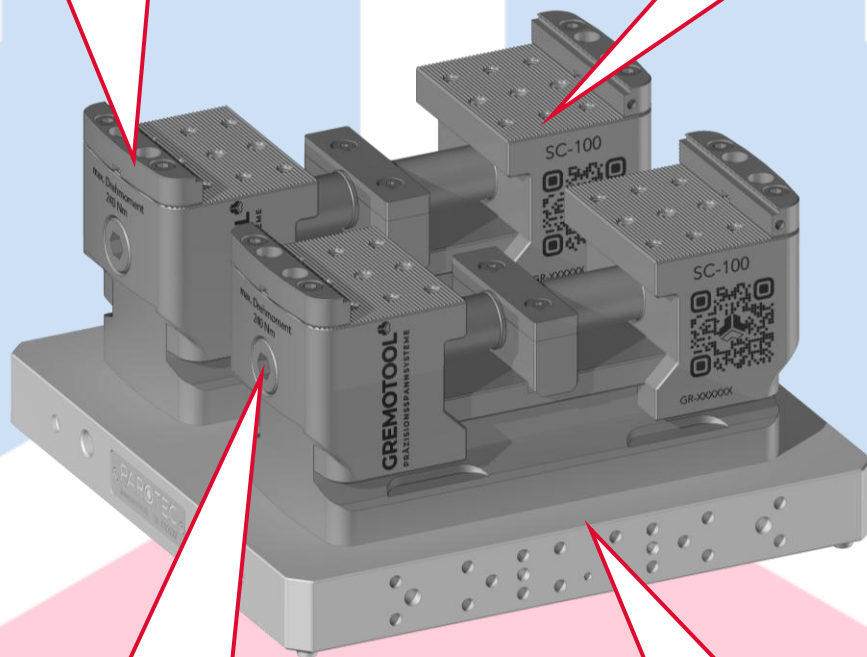
mechanical

Gremotool system of jaws

- + interchangeable between series
- + quick change of jaws
- + protruding jaws possible

High design

- + ideal chip flow
- + high accessibility
- + idealised clamping force



Centring precision $\pm 0.01\text{mm}$

- + precision for multi-axis machining
- + high repeat precision
- + reduces vibrations on the workpiece

Suitable with pallets of Parotec

- + e.g. on Parotec PT4160400000
- + centre, left, right, left and right
- + fast, precise assembly from below

Product presentation

mechanical

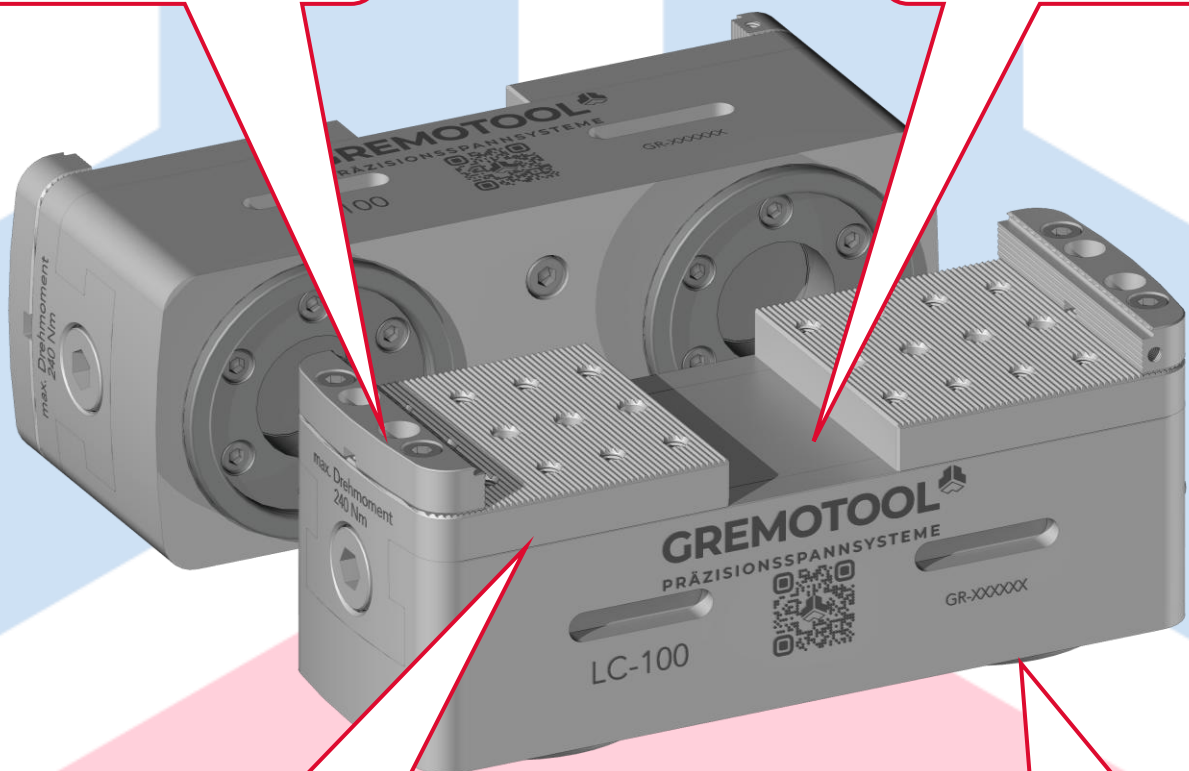
LC-50 integrated with Power-Grip centring and clamping sleeves

Gremotool system of jaws

- + interchangeable between series
- + quick change of jaws
- + protruding jaws possible

High design

- + ideal chip flow
- + high accessibility
- + idealised clamping force



Centring precision $\pm 0.01\text{mm}$

- + precision for multi-axis machining
- + high repeat precision
- + reduces vibrations on the workpiece

Integrated centring and clamping sleeves

- + designed for automation
- + deep for larger workpiece in machine
- + RFID-Chip attachable

Product presentation

RC-38 with Power-Grip 8-fold pallet

mechanical

Gremotool quick-change system

- + jaws quickly interchangeable
- + different jaw types
- + with pull-down effect

Modular Design

- + various modules
- + optimal accessibility
- + idealised clamping force

Precision $\pm 0.01\text{mm}$

- + precision for multi-axis machining
- + high repeat precision
- + reduces vibrations on the workpiece

Can be combined with Parotec pallets

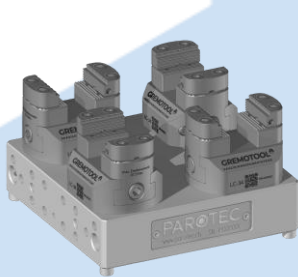
- + designed for automation
- + deep for larger workpiece in machine
- + RFID-Chip attachable

Product presentation

Gremotool clamping systems with Parotec pallets

Gremotool LC-series on Parotec pallets

- High-precision centre clamp
- High process reliability
- Closed base body to prevent chips from remaining
- Various sizes and fastening options
- Deep and stable
- Large Gremotool jaw range



4x LC-34 with Parotec PowerGrip 1-fold pallet



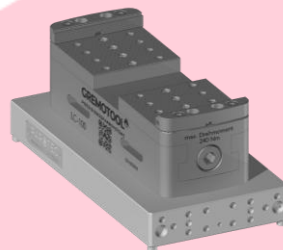
LC-50 with Parotec PowerGrip 1-fold pallet



LC-60 and LC-60AM for distortion-free clamping on 4-fold pallet



LC-100 with Parotec PowerGrip clamping sleeves



LC-100 with Parotec PowerGrip 2-fold pallet



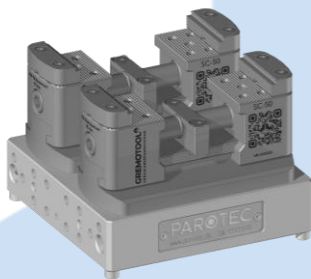
2x LC-100k on prism and Parotec PowerGrip 4-fold pallet

Product presentation

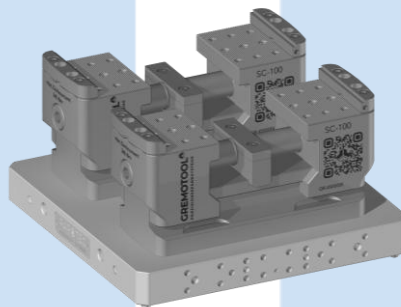
Gremotool clamping systems with Parotec pallets

Gremotool SC-series on Parotec pallets

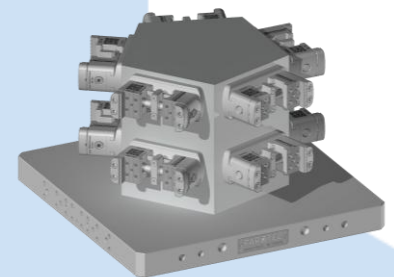
- High for optimum accessibility
- High-precision centre clamp
- Various sizes and fastening options
- Large Gremotool jaw range



**2x SC-50 with Parotec
PowerGrip 1-fold pallet**



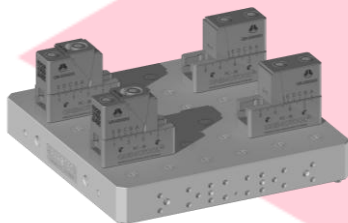
**SC-100 and SC-100AM for distortion-free
clamping on Parotec PowerGrip pallets**



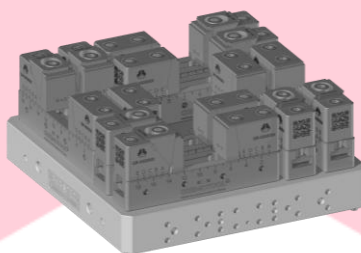
**10x SC-40 with tower and Parotec
PowerGrip 4-fold pallet**

Gremotool RC-series on Parotec pallets

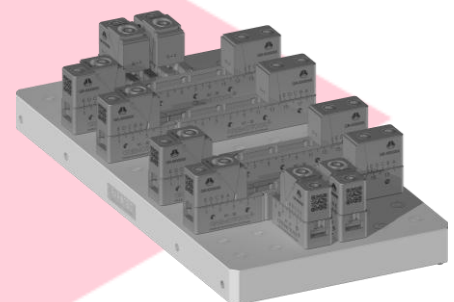
- Modularly adaptable to clamping situations
- Multiple clamping possible
- Quick-change jaws with pull-down effect
- Short set-up times



**2x RC-38 with Parotec
PowerGrip 4-fold pallet**



**8x RC-38 with Parotec
PowerGrip 4-fold pallet**



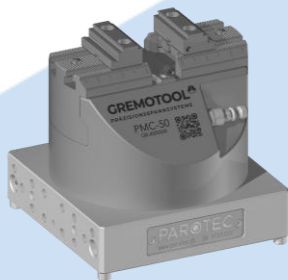
**8x RC-38 with Parotec
PowerGrip 8-fold pallet**

Product presentation

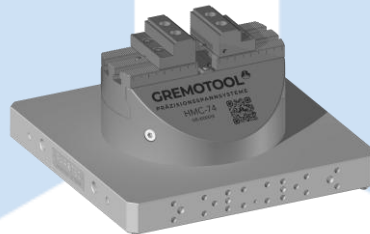
Gremotool pneumatic / hydraulic clamping system with Parotec pallets

Gremotool PMC/HMC-series on Parotec pallets

- Pneumatic / hydraulic centre clamp
- Integrated clamping force safety device
- Pressure reducing valve for clamping force adjustment (pneumatic)
- Clamping force via hydraulic pressure (hydraulic)
- Excellent accessibility from all sides
- Various sizes and mounting options
- Large Gremotool jaw range



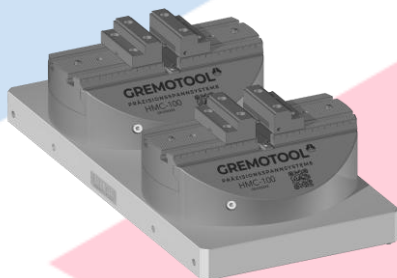
**PMC-50 with Parotec
PowerGrip 1-fold pallet**



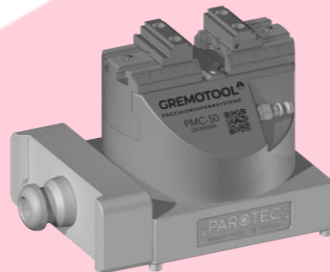
**HMC-74 with Parotec
PowerGrip 4-fold pallet**



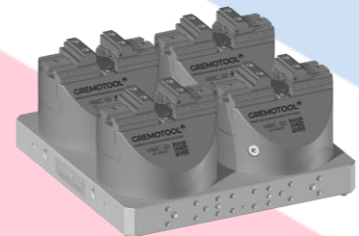
**HMC-100 with Parotec
PowerGrip 4-fold pallet**



**2x HMC-100 with Parotec
PowerGrip 8-fold pallet**



**PMC-50 with Parotec PowerGrip
1-fold pallet and gripper link**



**4x PMC-50 with Parotec
PowerGrip 4-fold pallet**

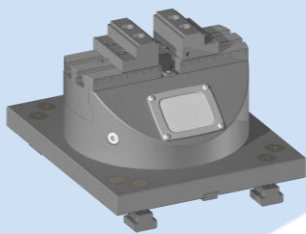
Product presentation

Gremotool hydraulic clamping system

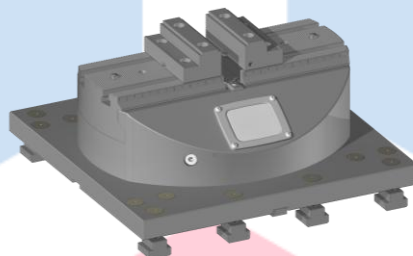
Gremotool HMCc-series

- Hydraulic centre clamp
- Sensors for monitoring clamping force
- Sensors for monitoring jaw position
- Radio transmission to Blum Novotest RC66 measuring probe receiver
- Battery-powered sensor technology
- Integrated clamping force safety device
- Clamping force adjustment via pressure reduction
- Excellent accessibility from all sides
- Various sizes and mounting options
- Large Gremotool jaw range

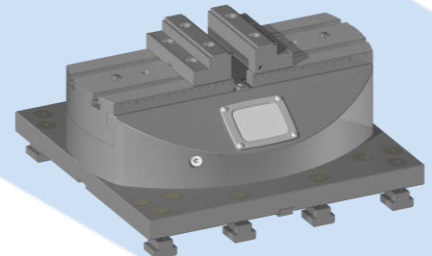
BLUM
focus on productivity



HMCc-74 on base plate



HMCc-100 on base plate



HMCc-120 on base plate



Sensor-based monitoring (clamping system independent)

The shown products and option combinations are examples.
The rights by the respective products are the property of Parotec and/or Gremotool.

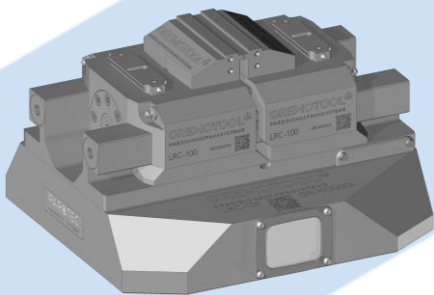
Product presentation

Gremotool hydraulic long range clamping system with sensors and Parotec pallets

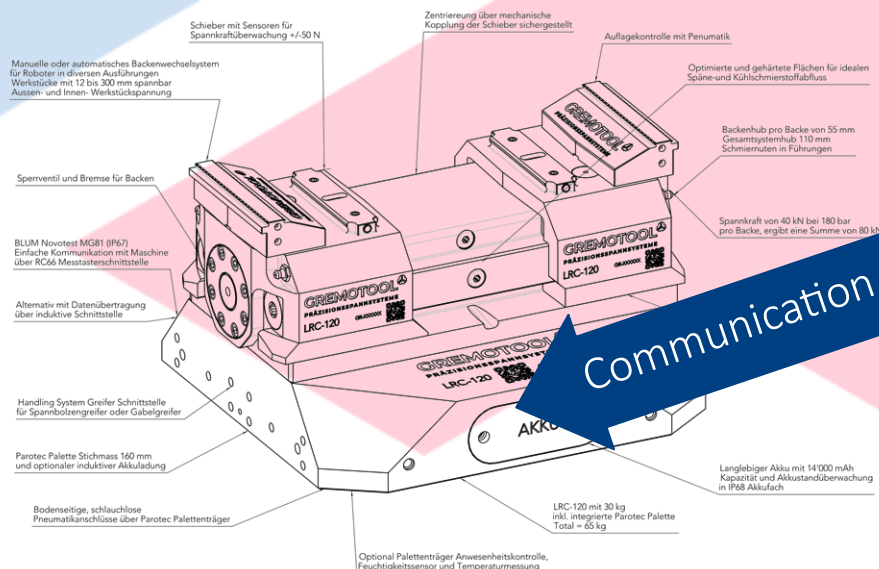
Gremotool LRC-series

- Hydraulic centre clamp with long stroke (90-110 mm)
- Sensors for monitoring clamping force
- Sensors for monitoring jaw position
- Radio transmission to Blum Novotest RC66 measuring probe receiver
- Battery-powered sensor technology
- Integrated clamping force safety device
- Clamping force adjustment via pressure reduction
- Excellent accessibility from all sides
- Various sizes and mounting options
- Large Gremotool jaw range

BLUM
 focus on productivity



LRC-120



Communication MG81 → RC66

Monitored values
 available directly
 in PLC

Product presentation

Gremotool manual precision clamping system sizes

Recommended LC



LC-34



LC-40



LC-50

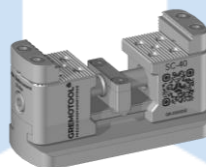


LC-60

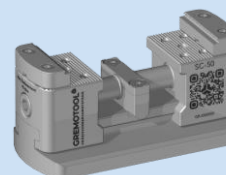
Recommended SC



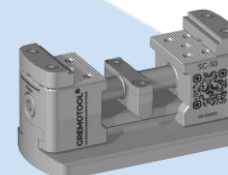
SC-34



SC-40



SC-50



SC-60

Max. workpiece length (clamping range) [mm]	36	85	106	136
Min. workpiece width (jaw width) [mm]	34	40	50	60
Max. workpiece height [mm]	70	70	100	100
Max. workpiece weight [kg]*	4	18	32	40
Min. table size [mm]	Ø70	Ø120	Ø148	100 x 178

Product presentation

Gremotool manual precision clamping system sizes

Recommended LC



LC-74



LC-100

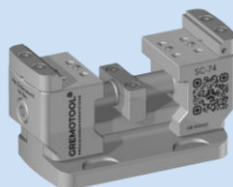


LC-120

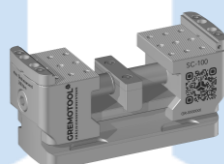


LC-150

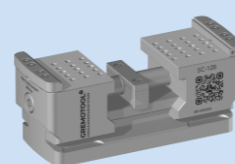
Recommended SC



SC-74



SC-100



SC-120

Max. workpiece length (clamping range) [mm]	180	228	270	355
Max. workpiece width (jaw width) [mm]	74	100	120	150
Max. workpiece height [mm]	120	120	120	120
Max. workpiece weight [kg]	70	70	70	70
Min. table size [mm]	100 x 224	100 x 272	120 x 322	120 x 410

Product presentation

Gremotool pneumatic and hydraulic precision clamping system sizes

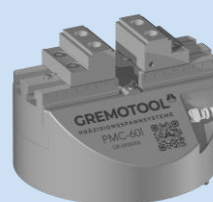
Recommended PMC



PMC-50



PMC-60



PMC-60I



PMC-74

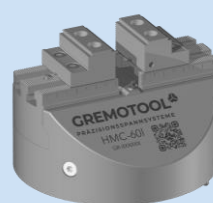
Recommended HMC



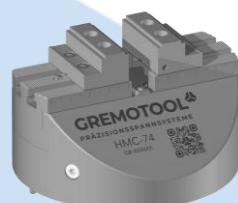
HMC-50



HMC-60



HMC-60I



HMC-74

Max. workpiece length (clamping range) [mm]	110	114	134	154
Min. workpiece width (jaw width) [mm]	50	60	60	74
Max. workpiece height [mm]	150	150	150	200
Max. workpiece weight [kg]*	25	25	25	50
Min. table size [mm]	Ø148	Ø170	Ø190	Ø210

Product presentation

Gremotool pneumatic and hydraulic precision clamping system sizes

Recommended PMC



PMC-100

PMC-120

Recommended HMC



HMC-100

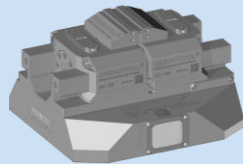
HMC-120

Max. workpiece length (clamping range) [mm]	250	294
Min. workpiece width (jaw width) [mm]	100	120
Max. workpiece height [mm]	200	200
Max. workpiece weight [kg]*	50	50
Min. table size [mm]	260 x 310	260 x 350

Product presentation

Gremotool long range precision clamping system sizes

Recommended LRC

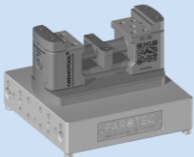
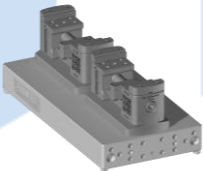
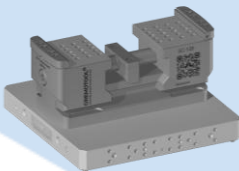
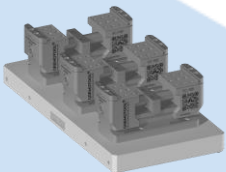
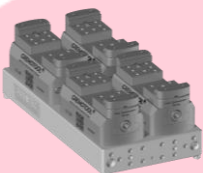
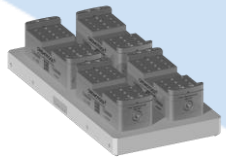
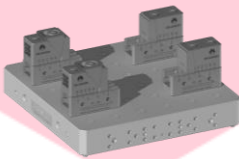
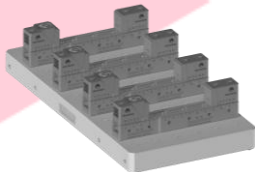


LRC-120

Jaw stroke [mm]	55
Max. workpiece length (clamping range) [mm]	300
Min. workpiece width (jaw width) [mm]	120
Max. workpiece height [mm]	300
Max. workpiece weight [kg]*	50
Recommended table size	320 x 320

Overview of products

Gremotool clamping devices with Parotec

	Power-Grip 1-fold pallet	Power-Grip 2-fold pallet	Power-Grip 4-fold pallet	Power-Grip 8-fold pallet
PMC / HMC pneumatic / hydraulic	 PMC / HMC-50	 PMC / HMC-50	 PMC / HMC-50 / 60 / 60l / 74 / 100	 PMC / HMC-50 / 60 / 60l / 74 / 100 / 120
SC mechanical	 SC-34 / 40 / 50	 SC-60 / 74 / 100	 SC-50 / 60 / 74 / 100 / 120	 SC-50 / 60 / 74 / 100 / 120
LC mechanical	 LC-34 / 40 / 50	 LC-34 / 40 / 50 / 60 / 74 / 100 / 120	 LC-50 / 60 / 74 / 100 / 120	 LC-50 / 60 / 74 / 100 / 120
RC mechanical	-	-	 RC-38	 RC-38

Variant table

Power-Grip 1-fold pallet with PMC / HMC

pneumatic /
hydraulic

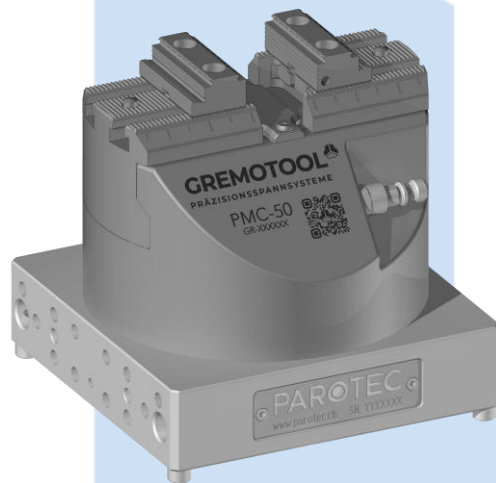
The PMC/HMC-50 is designed for use with Parotec pallets.

It is supplied from below via the pallet using either a pneumatic or hydraulic system.

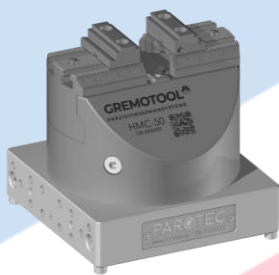
The pressure-reducing valve on the PMC allows the clamping force to be individually adjusted to suit the work-piece.

The extensive range of jaws also offers suitable jaws for every application.

For detailed specifications of the PMC series, please contact us directly or consult the PMC catalogue.



PMC-50 with 1-fold pallet



HMC-50 with 1-fold pallet

Further variants can be requested directly by Gremotool.

The shown products and option combinations are examples.
The rights by the respective products are the property of Parotec and/or Gremotool.

mechanical

Variant table

Power-Grip 1-fold pallet with SC

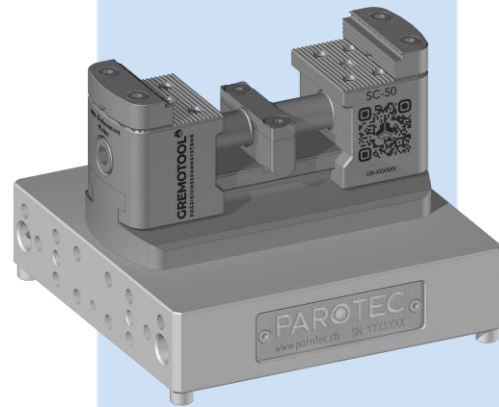
The SC series can be mounted on Parotec pallets without any modifications.

It is also possible to attach only the centring and clamping sleeves directly to the SC series, without a pallet.

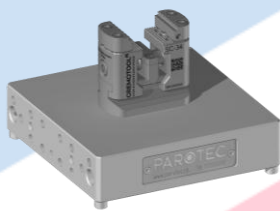
The height of the SC series ensures optimum accessibility for 5-axis machining of workpieces.

The extensive range of jaws also offers suitable jaws for every application.

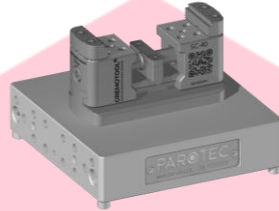
For detailed specifications of the SC series, please contact us directly or consult the SC catalogue.



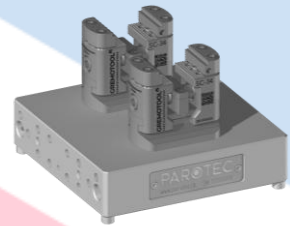
SC-50 with 1-fold pallet



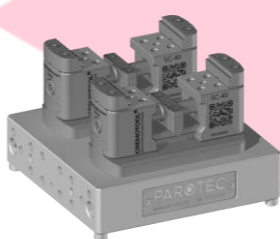
SC-34 with 1-fold pallet



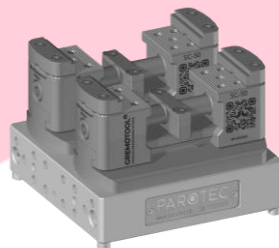
SC-40 with 1-fold pallet



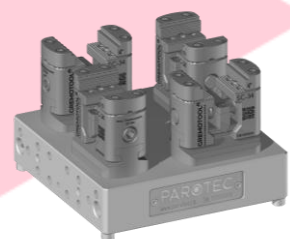
2x SC-34 with 1-fold pallet



2x SC-40 with 1-fold pallet



2x SC-50 with 1-fold pallet



4x SC-34 with 1-fold pallet

Further variants can be requested directly by Gremotool.

The shown products and option combinations are examples.
 The rights to the respective products are the property of Parotec and/or Gremotool.

Variant table

Power-Grip 1-fold pallet with LC

mechanical

The LC series can be mounted on Parotec pallets without any modifications.

It is also possible to attach only the centring and clamping sleeves directly to the LC series, without a pallet.

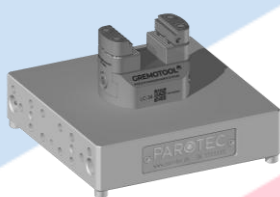
Thanks to the enclosed design of the LC series, no chips remain on the clamping device.

The wide range of jaws also ensures that there are suitable jaws for every application.

For detailed specifications of the LC series, please contact us directly or consult the LC catalogue.



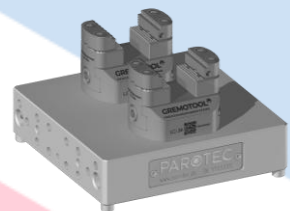
LC-50 with 1-fold pallet



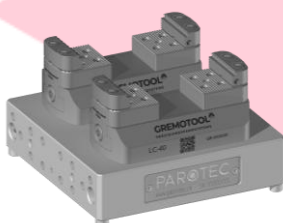
LC-34 with 1-fold pallet



LC-40 with 1-fold pallet



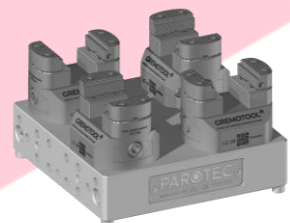
2x LC-34 with 1-fold pallet



2x LC-40 with 1-fold pallet



2x LC-50 with 1-fold pallet



4x LC-34 with 1-fold pallet

Further variants can be requested directly by Gremotool

The shown products and option combinations are examples.
 The rights by the respective products are the property of Parotec and/or Gremotool.

Variant table

Power-Grip 2-fold pallet with PMC / HMC

pneumatic /
hydraulic

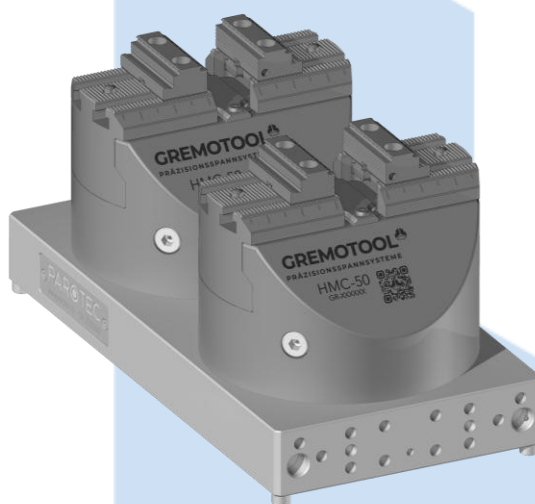
The PMC/HMC series is designed for Parotec pallets.

It is supplied from below via the pallet using either pneumatic or hydraulic systems.

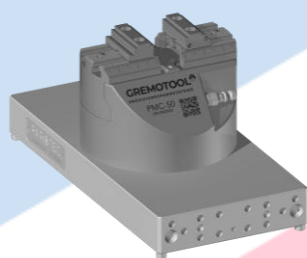
The pressure-reducing valve on the PMC allows the clamping force to be individually adjusted to suit the work-piece.

The extensive range of jaws also offers suitable jaws for every application.

For detailed specifications of the PMC series, please contact us directly or consult the PMC catalogue.



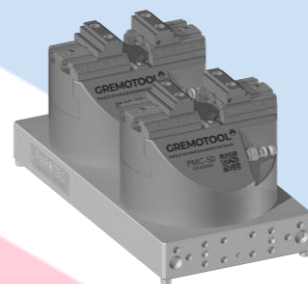
2x HMC-50 with 2-fold pallet



PMC-50 with 2-fold pallet



HMC-50 with 2-fold pallet



2x PMC-50 with 2-fold pallet

Further variants can be requested directly by Gremotool.

The shown products and option combinations are examples.
The rights by the respective products are the property of Parotec and/or Gremotool.

mechanical

Variant table

Power-Grip 2-fold pallet with SC

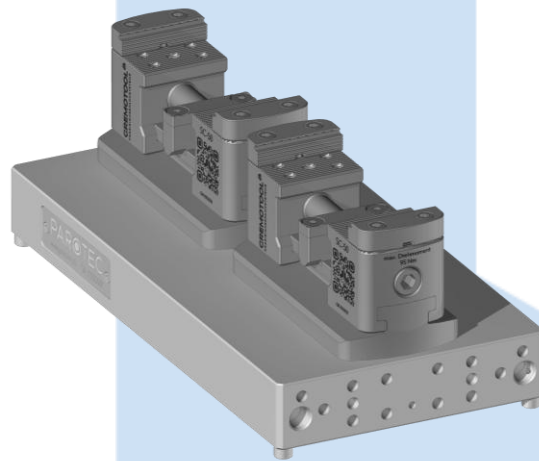
The SC series can be mounted on Parotec pallets without any modifications.

It is also possible to attach only the centring and clamping sleeves directly to the SC series, without a pallet.

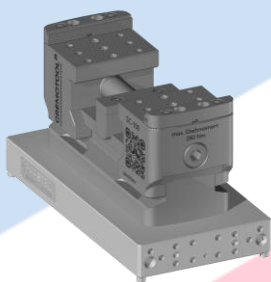
The height of the SC series ensures optimum accessibility for 5-axis machining of workpieces.

The extensive range of jaws also offers suitable jaws for every application.

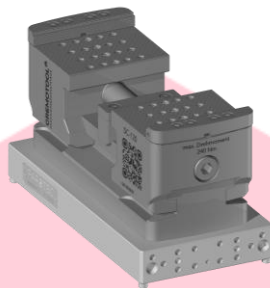
For detailed specifications of the SC series, please contact us directly or consult the SC catalogue.



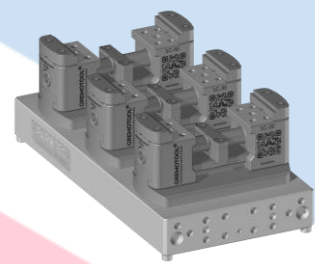
2x SC-50 with 2-fold pallet



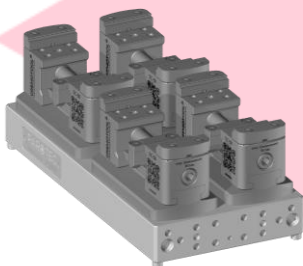
SC-100 with 2-fold pallet



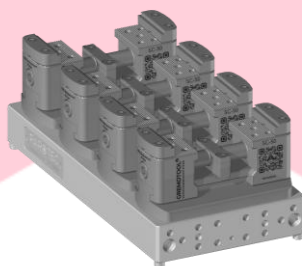
SC-120 with 2-fold pallet



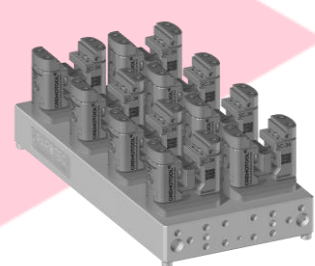
3x SC-50 with 2-fold pallet



4x SC-50 with 2-fold pallet



4x SC-50 with 2-fold pallet



8x SC-34 with 2-fold pallet

Further variants can be requested directly by Gremotool.

The shown products and option combinations are examples.
 The rights by the respective products are the property of Parotec and/or Gremotool.

mechanical

Variant table

Power-Grip 2-fold pallet with LC

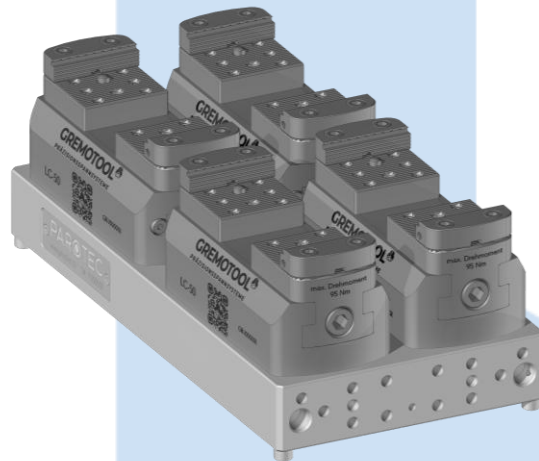
The LC series can be mounted on Parotec pallets without any modifications.

It is also possible to attach only the centring and clamping sleeves directly to the LC series, without a pallet.

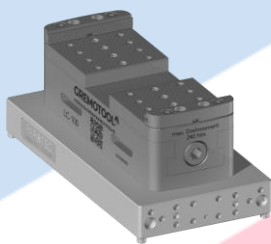
Thanks to the enclosed design of the LC series, no chips remain on the clamping device.

The wide range of jaws also ensures that there are suitable jaws for every application.

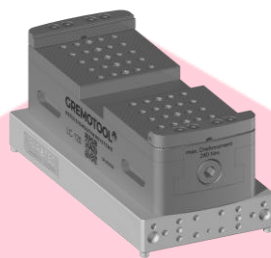
For detailed specifications of the LC series, please contact us directly or consult the LC catalogue.



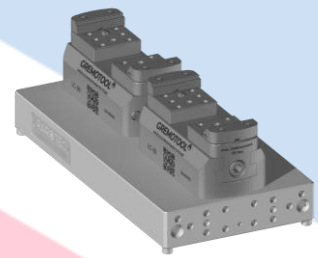
4x LC-50 with 2-fold pallet



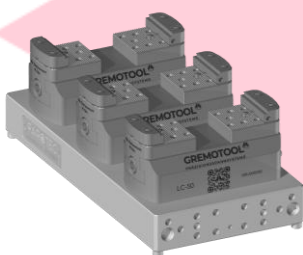
LC-100 with 2-fold pallet



LC-120 with 2-fold pallet



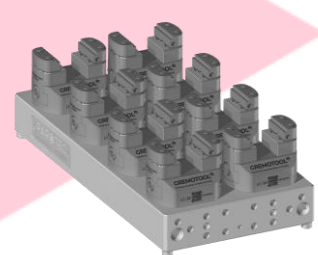
2x LC-50 with 2-fold pallet



3x LC-50 with 2-fold pallet



4x LC-50 with 2-fold pallet



8x LC-34 with 2-fold pallet

Further variants can be requested directly by Gremotool.

The shown products and option combinations are examples.
 The rights by the respective products are the property of Parotec and/or Gremotool.

Variant table

Power-Grip 4-fold pallet with PMC / HMC

pneumatic /
hydraulic

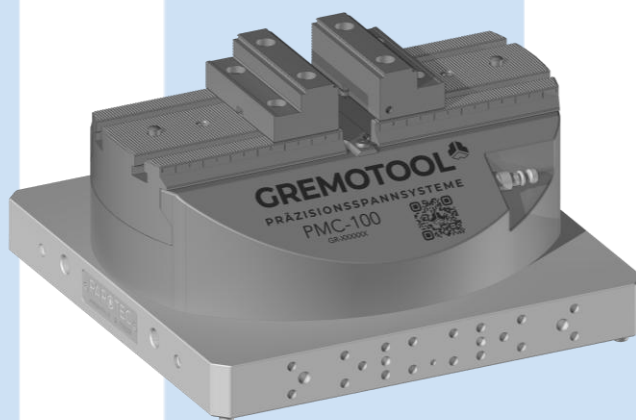
The PMC/HMC series is designed for Parotec pallets.

It is supplied from below via the pallet using either pneumatic or hydraulic systems.

The pressure-reducing valve on the PMC allows the clamping force to be individually adjusted to suit the work-piece.

The extensive range of jaws also offers suitable jaws for every application.

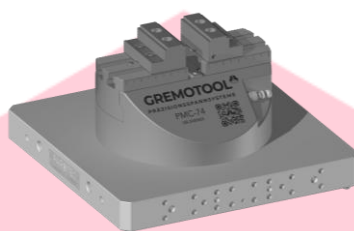
For detailed specifications of the PMC series, please contact us directly or consult the PMC catalogue.



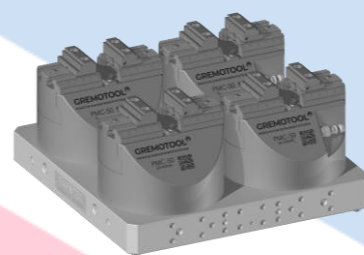
PMC-100 with 4-fold pallet



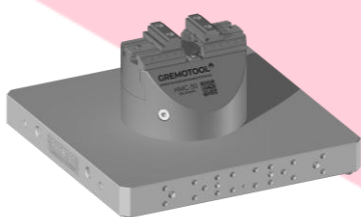
PMC-60 with 4-fold pallet



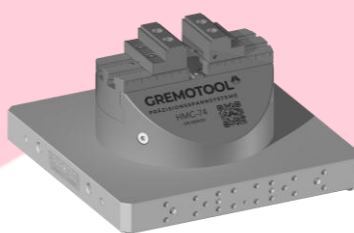
PMC-74 with 4-fold pallet



4x PMC-50 with 4-fold pallet



HMC-50 with 4-fold pallet



HMC-74 with 4-fold pallet



HMC-100 with 4-fold pallet

Further variants can be requested directly by Gremotool.

The shown products and option combinations are examples.
The rights to the respective products are the property of Parotec and/or Gremotool.

mechanical

Variant table

Power-Grip 4-fold pallet with SC

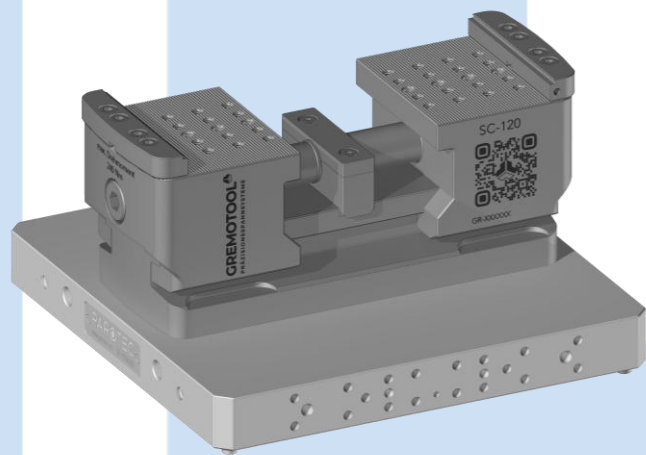
The SC series can be mounted on Parotec pallets without any modifications.

It is also possible to attach only the centring and clamping sleeves directly to the SC series, without a pallet.

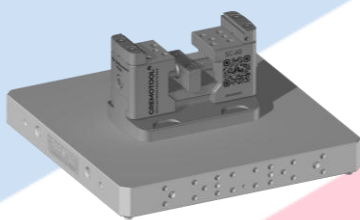
The height of the SC series ensures optimum accessibility for 5-axis machining of workpieces.

The extensive range of jaws also offers suitable jaws for every application.

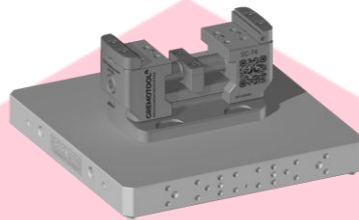
For detailed specifications of the SC series, please contact us directly or consult the SC catalogue.



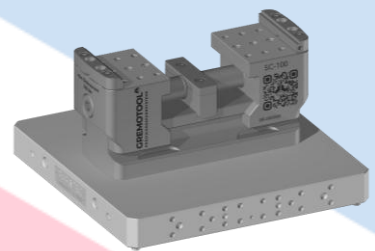
SC-120 with 4-fold pallet



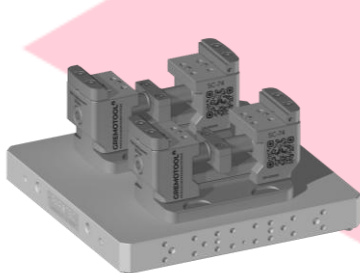
SC-60 with 4-fold pallet



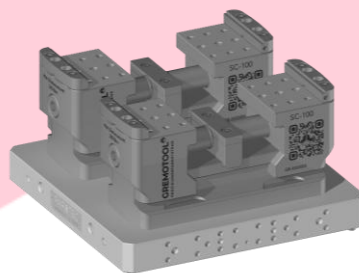
SC-74 with 4-fold pallet



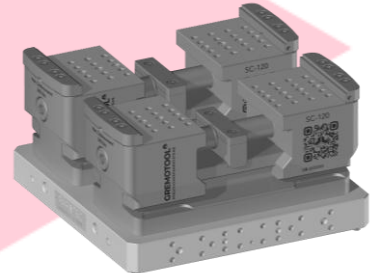
SC-100 with 4-fold pallet



2x SC-74 with 4-fold pallet



2x SC-100 with 4-fold pallet



2x SC-120 with 4-fold pallet

Further variants can be requested directly by Gremotool.

The shown products and option combinations are examples.
 The rights by the respective products are the property of Parotec and/or Gremotool.

Variant table

Power-Grip 4-fold pallet with LC

mechanical

The LC series can be mounted on Parotec pallets without any modifications.

It is also possible to attach only the centring and clamping sleeves directly to the LC series, without a pallet.

Thanks to the enclosed design of the LC series, no chips remain on the clamping device.

The wide range of jaws also ensures that there are suitable jaws for every application.

For detailed specifications of the LC series, please contact us directly or consult the LC catalogue.



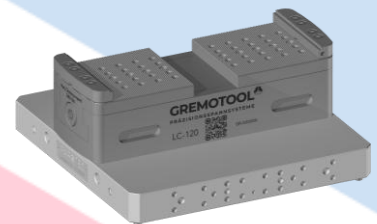
2x LC-100 with 4-fold pallet



LC-74 with 4-fold pallet



LC-100 with 4-fold pallet



LC-120 with 4-fold pallet



2x LC-74 with 4-fold pallet



2x LC-120 with 4-fold pallet



6x LC-50 with 4-fold pallet

Further variants can be requested directly by Gremotool.

The shown products and option combinations are examples.
The rights by the respective products are the property of Parotec and/or Gremotool.

mechanical

Variant table

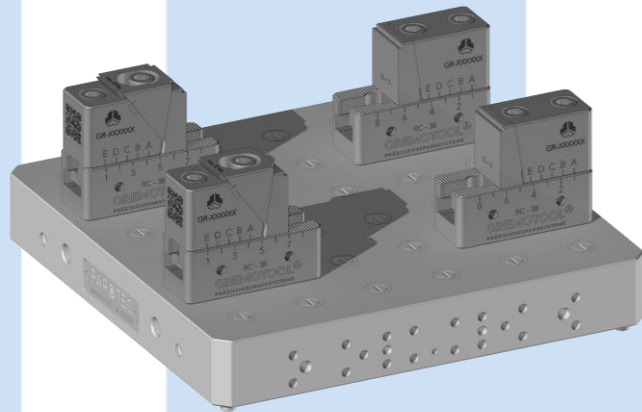
Power-Grip 4-fold pallet with RC

The RC series can be mounted on perforated panels and on Parotec pallets without any modifications.

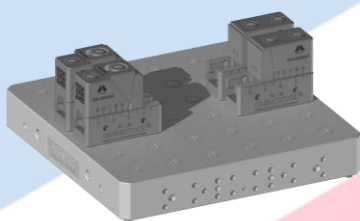
The modular design of the RC series allows for a variety of workpiece clamping configurations.

The quick-change jaw system features a pull-down function and provides the right jaw for every workpiece geometry.

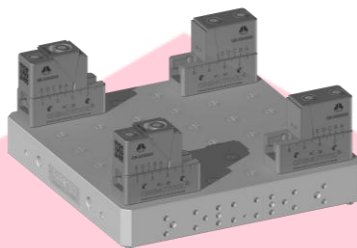
For detailed specifications of the RC series, please contact us directly or consult the RC catalogue.



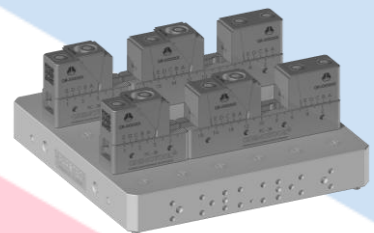
2x RC-38 with 4-fold pallet



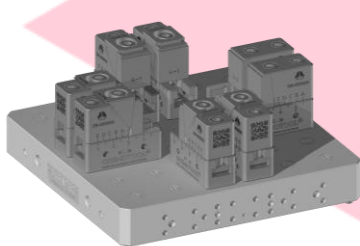
2x RC-38 with 4-fold pallet



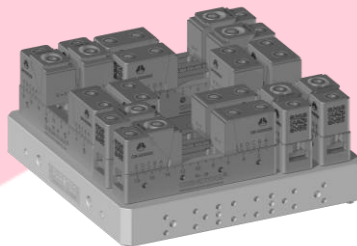
2x RC-38 with 4-fold pallet



4x RC-38 with 4-fold pallet



6x RC-38 with 4-fold pallet



8x RC-38 with 4-fold pallet

Further variants can be requested directly by Gremotool.

The shown products and option combinations are examples.
 The rights by the respective products are the property of Parotec and/or Gremotool.

Variant table

Power-Grip 8-fold pallet with PMC / HMC

pneumatic /
hydraulic

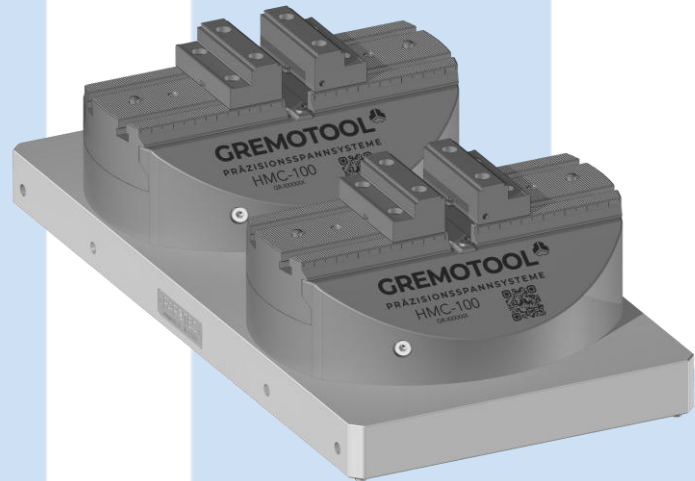
The PMC/HMC series is designed for Parotec pallets.

It is supplied from below via the pallet using either pneumatic or hydraulic systems.

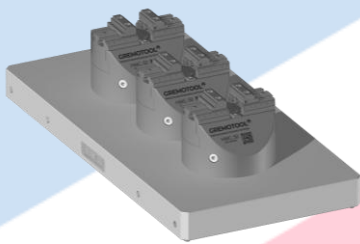
The pressure-reducing valve on the PMC allows the clamping force to be individually adjusted to suit the work-piece.

The extensive range of jaws also offers suitable jaws for every application.

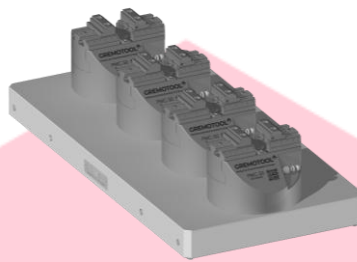
For detailed specifications of the PMC series, please contact us directly or consult the PMC catalogue.



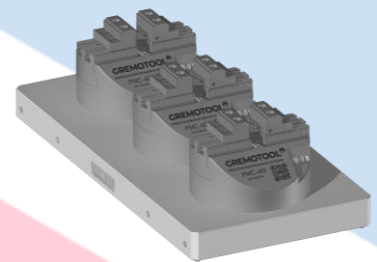
2x HMC-100 with 8-fold pallet



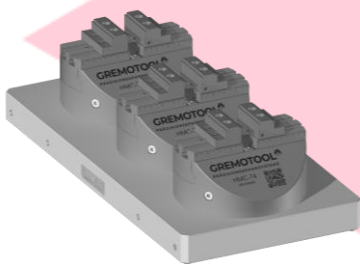
3x HMC-50 with 8-fold pallet



4x PMC-50 with 8-fold pallet



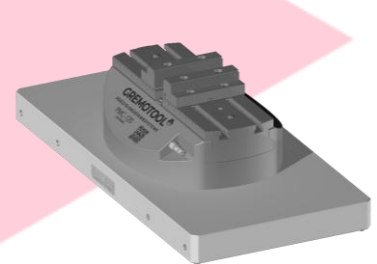
3x PMC-60I with 8-fold pallet



3x HMC-74 with 8-fold pallet



2x PMC-100 with 8-fold pallet



1x PMC-120 with 8-fold pallet

Further variants can be requested directly by Gremotool.

The shown products and option combinations are examples.
The rights by the respective products are the property of Parotec and/or Gremotool.

mechanical

Variant table

Power-Grip 8-fold pallet with SC

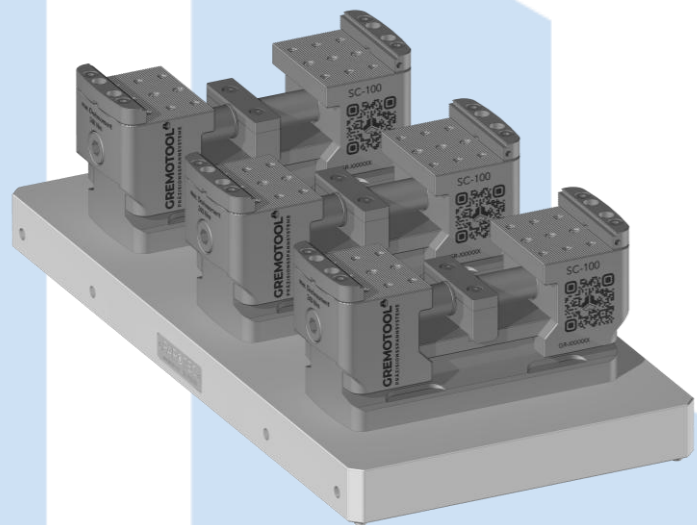
The SC series can be mounted on Parotec pallets without any modifications.

It is also possible to attach only the centring and clamping sleeves directly to the SC series, without a pallet.

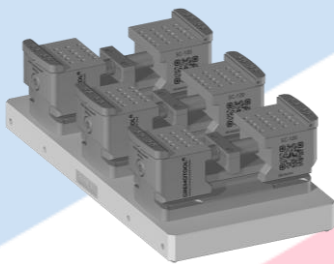
The height of the SC series ensures optimum accessibility for 5-axis machining of workpieces.

The extensive range of jaws also offers suitable jaws for every application.

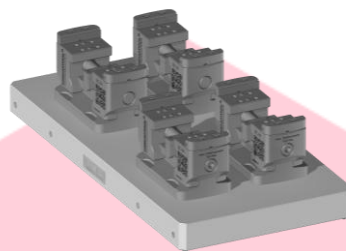
For detailed specifications of the SC series, please contact us directly or consult the SC catalogue.



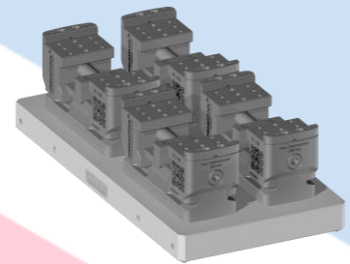
3x SC-100 with 8-fold pallet



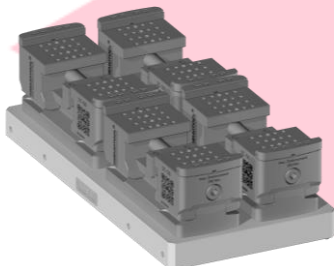
3x SC-120 with 8-fold pallet



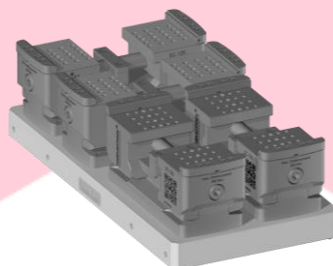
4x SC-74 with 8-fold pallet



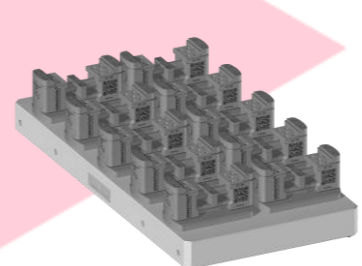
4x LC-100 with 8-fold pallet



4x SC-120 with 8-fold pallet



4x SC-120 with 8-fold pallet



10x SC-50 with 8-fold pallet

Further variants can be requested directly by Gremotool.

The shown products and option combinations are examples.
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mechanical

Variant table

Power-Grip 8-fold pallet with LC

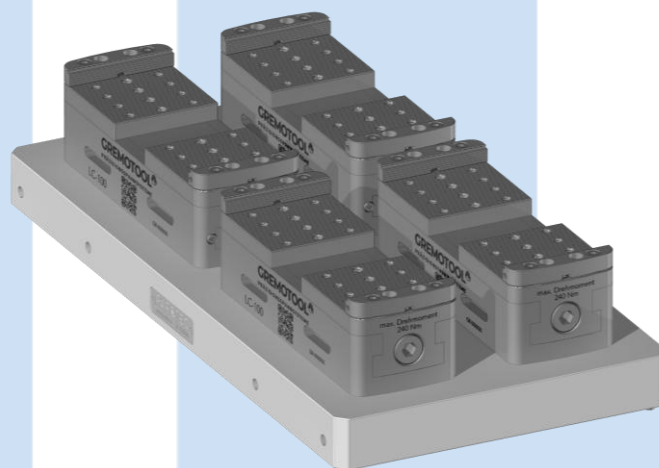
The LC series can be mounted on Parotec pallets without any modifications.

It is also possible to attach the clamping bolt directly to the LC series without using a pallet.

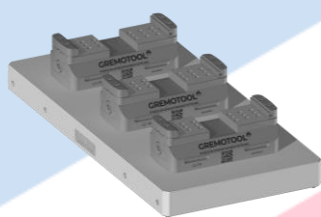
Thanks to the enclosed design of the LC series, no chips remain on the clamping device.

The wide range of jaws also ensures that there are suitable jaws for every application.

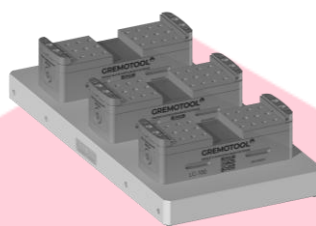
For detailed specifications of the LC series, please contact us directly or consult the LC catalogue.



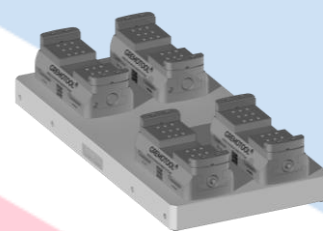
4x LC-100 with 8-fold pallet



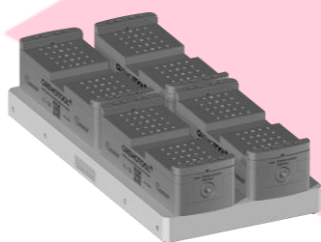
3x LC-74 with 8-fold pallet



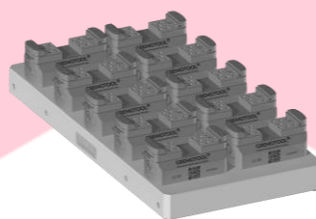
3x LC-100 with 8-fold pallet



4x LC-74 with 8-fold pallet



4x LC-120 with 8-fold pallet



10x LC-100 with 8-fold pallet

Further variants can be requested directly by Gremotool.

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mechanical

Variant table

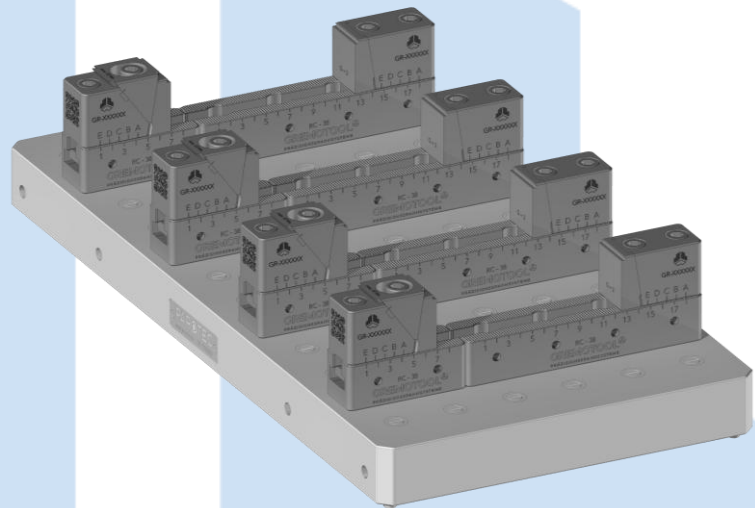
Power-Grip 8-fold pallet with RC

The RC series can be mounted on perforated panels and on Parotec pallets without any modifications.

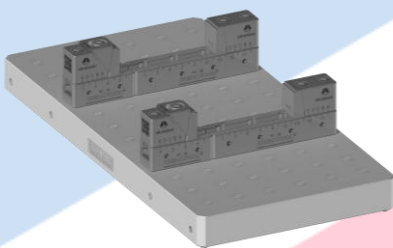
The modular design of the RC series allows for a variety of workpiece clamping configurations.

The quick-change jaw system features a pull-down function and provides the right jaw for every workpiece geometry.

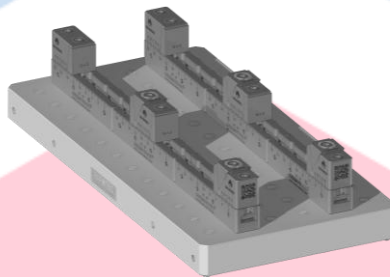
For detailed specifications of the RC series, please contact us directly or consult the RC catalogue.



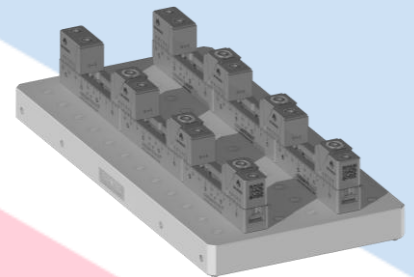
4x RC-38 with 8-fold pallet



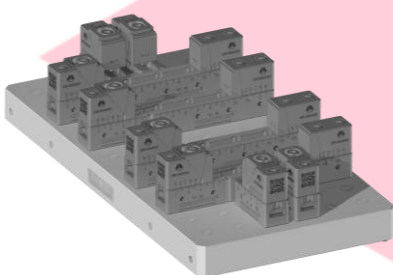
2x RC-38 with 8-fold pallet



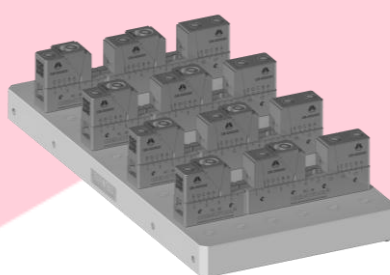
4x RC-38 with 8-fold pallet



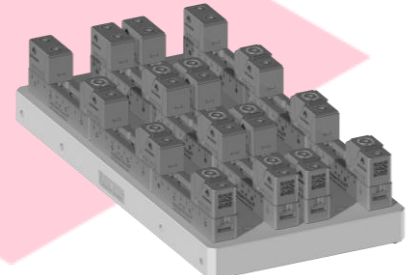
6x RC-38 with 8-fold pallet



8x RC-38 with 8-fold pallet



8x RC-38 with 8-fold pallet



12x RC-38 with 8-fold pallet

Further variants can be requested directly by Gremotool.

The shown products and option combinations are examples.
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Applications

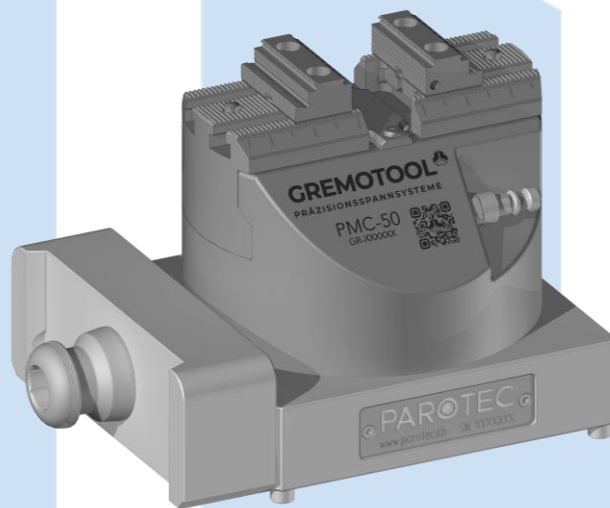
Zero-point clamping systems

The Power-Grip centring and clamping sleeves can be fitted directly to the clamping system to minimise the number of interfaces.

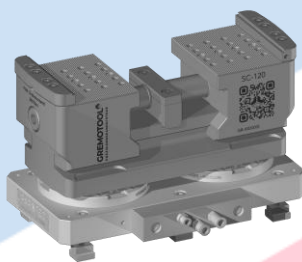
If further requirements are placed on the clamping systems, these can be integrated into the pallet geometries. This frees up a few more millimetres of machining space without compromising the functionality or automatability of the clamping devices.

Custom sizes are another way of optimising space for production.

Please contact us directly regarding these proposed solutions.



PMC-50 with 1-fold pallet



SC-120 with integrated centring and clamping sleeves



LC-100 with integrated centring and clamping sleeves

Further variants can be requested directly by Gremotool.

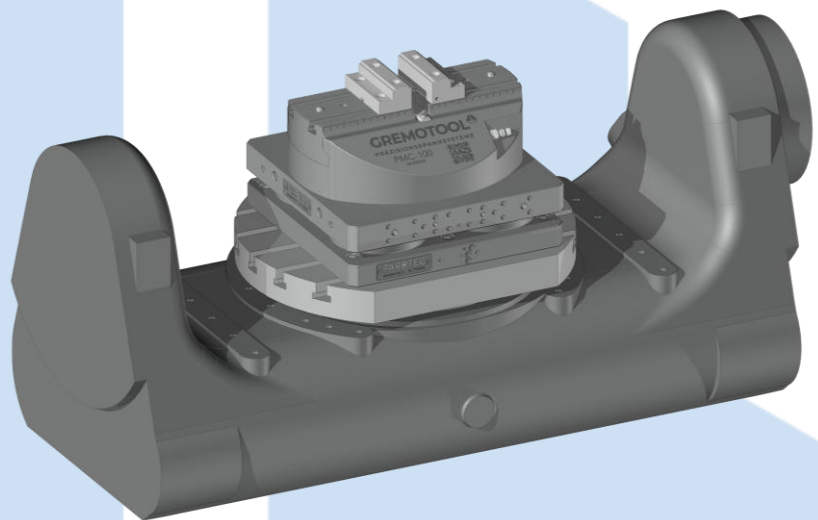
The shown products and option combinations are examples.
The rights by the respective products are the property of Parotec and/or Gremotool.

Applications

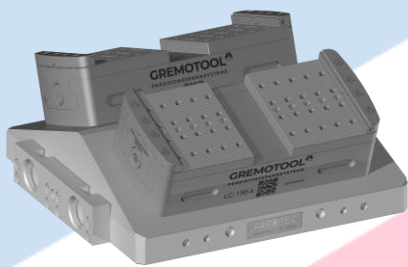
Gremotool Fixture

Modern, cost-effective manufacturing requires flexible solutions to maximise efficiency. We can help you make the most of your machining centre's capacity with towers, prisms or pyramids.

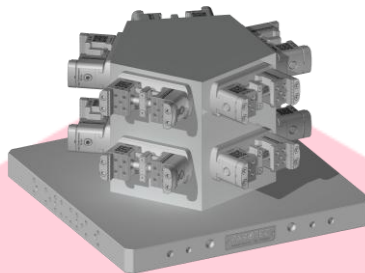
Please contact us directly for proposed solutions in the field of multiple clamping.



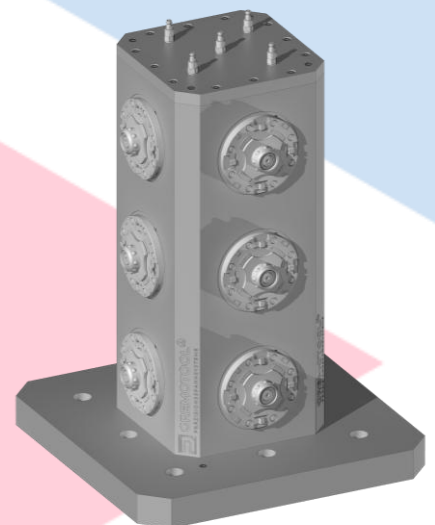
PMC-100 with 4-fold pallet on a 4-fold pallet carrier



2x LC-150k with prisma and 4-fold pallet



10x SC-40 with tower and 4-fold pallet



Tower with centring and clamping units

Further variants can be requested directly by Gremotool.

The shown products and option combinations are examples.
 The rights by the respective products are the property of Parotec and/or Gremotool.

Accessories

Gremotool range of jaws

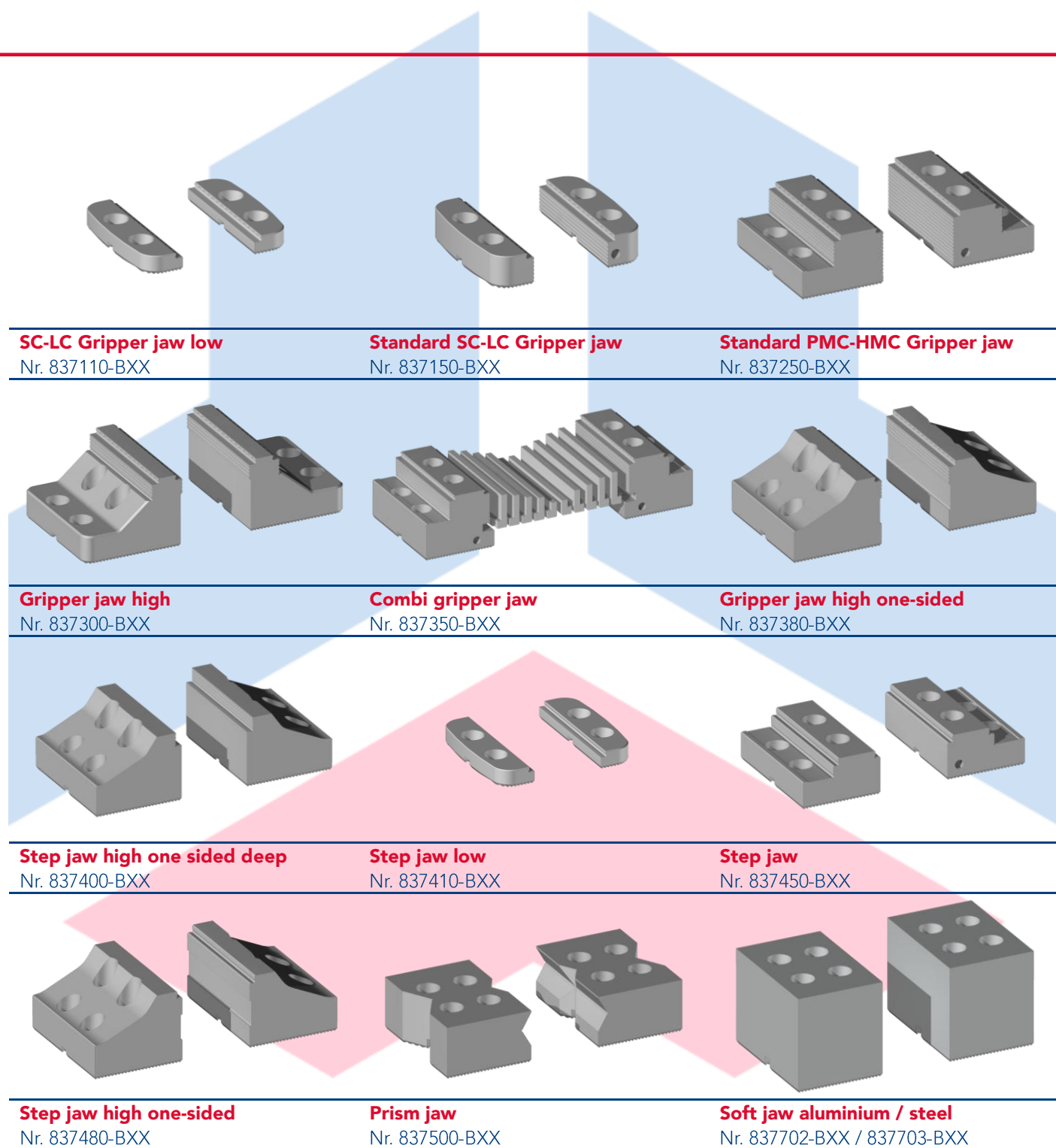
Each clamping system is supplied with a pair of gripper jaws
 Allowing to clamp unmachined parts at no additional costs.

Jaw width [mm]		34	40	50	60	74	100	120	150
SC-LC Gripper jaw low	Nr. 837110			X	X	X	X	X	
Standard SC-LC Gripper jaw	Nr. 837150			X	X	X	X	X	
Standard PMC-HMC Gripper jaw	Nr. 837250			X	X	X	X	X	
Gripper jaw high	Nr. 837300			X	X	X	X	X	
Combi gripper jaw	Nr. 837350			X	X	X	X	X	
Gripper jaw high one sided	Nr. 837380			X	X	X	X	X	
Step jaw high one sided deep	Nr. 837400			X	X	X	X	X	
Step jaw low	Nr. 837410			X	X	X	X	X	
Step jaw	Nr. 837450			X	X	X	X	X	
Step jaw high on sided	Nr. 837480			X	X	X	X	X	
Prism jaw	Nr. 837500			X	X	X	X	X	
Soft jaw aluminium	Nr. 837702			X	X	X	X	X	
Soft jaw steel	Nr. 837703			X	X	X	X	X	

For the exact data of the jaws, please consult the jaw catalogue.

Accessories

Gremotool range of jaws

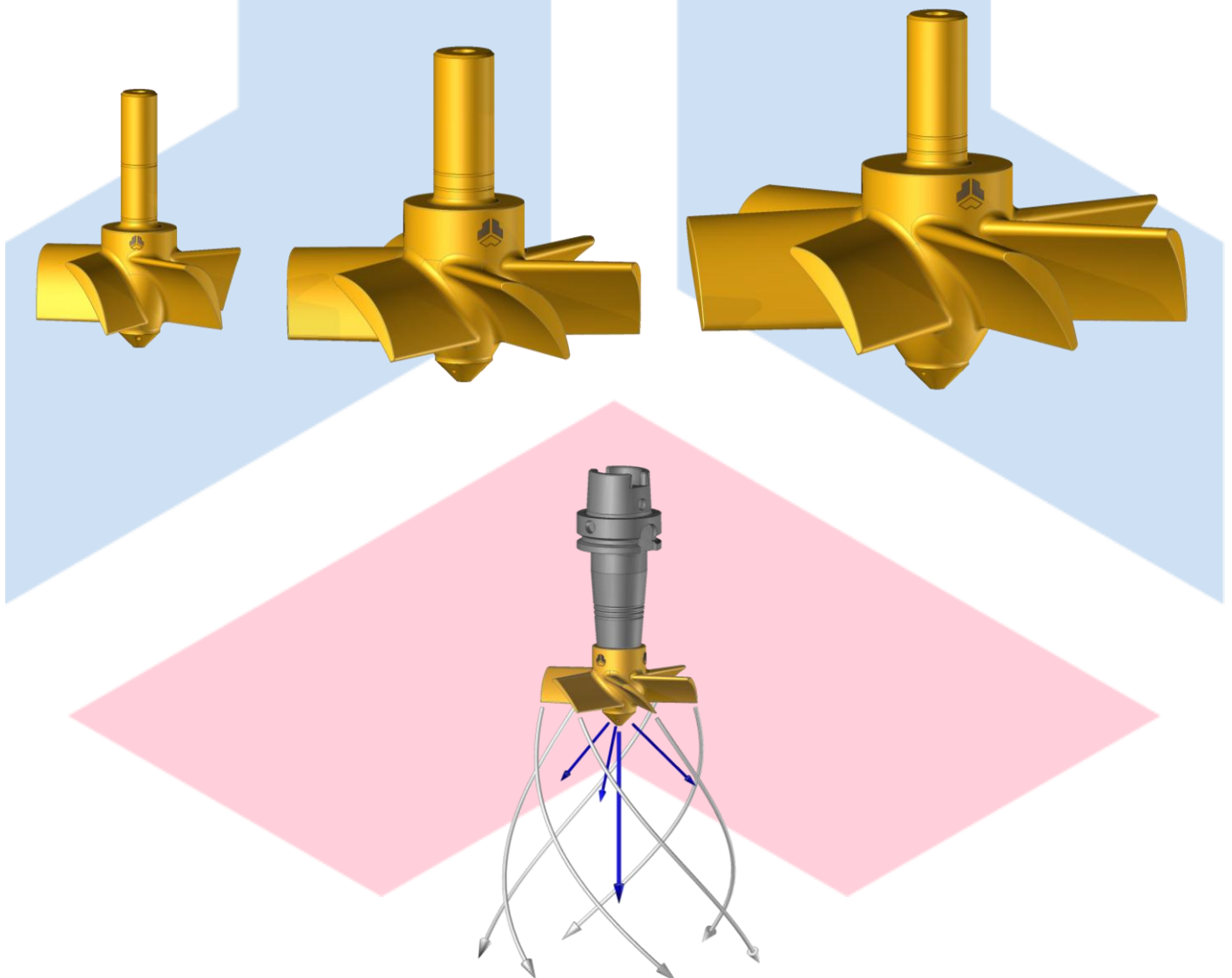


Accessories

Gremotool TCF

Gremotool Turbo Chip Fan ø68, ø117 und ø166

With the Turbo Chip Fan from Gremotool, the machining centre can automatically remove residues of chips and cooling lubricants from the workpiece, the clamping device and the machining table after the manufacturing process. This allows the operator, whether human or robot, to remove a cleaned workpiece from the machining area of the machine tool without having to wash it down beforehand with an air or water jet. When using robots, this cleaning of chips is essential, as the chips have a negative impact on process stability. This risk of chips becoming jammed during reloading is significantly reduced.



Accessories

Gremotool CLT-filter system

Gremotool Cooling Liquid Treatment (CLT):

- Can be easily integrated into existing cooling lubricant systems
- Optimal addition to belt filters and magnetic separators
- Filtration of steel, cast iron, graphite, aluminium, copper, brass, tool abrasion and grinding dust
- Improves surface quality in metalworking
- Extend the service life of machining tools and cooling lubricants
- Oil and sludge absorbing filter unit
- Reduces wear on system components (valves, nozzles, pumps, rotary joints)
- No external power supply
- Extremely easy to operate and maintain
- Reduces your operating and disposal costs

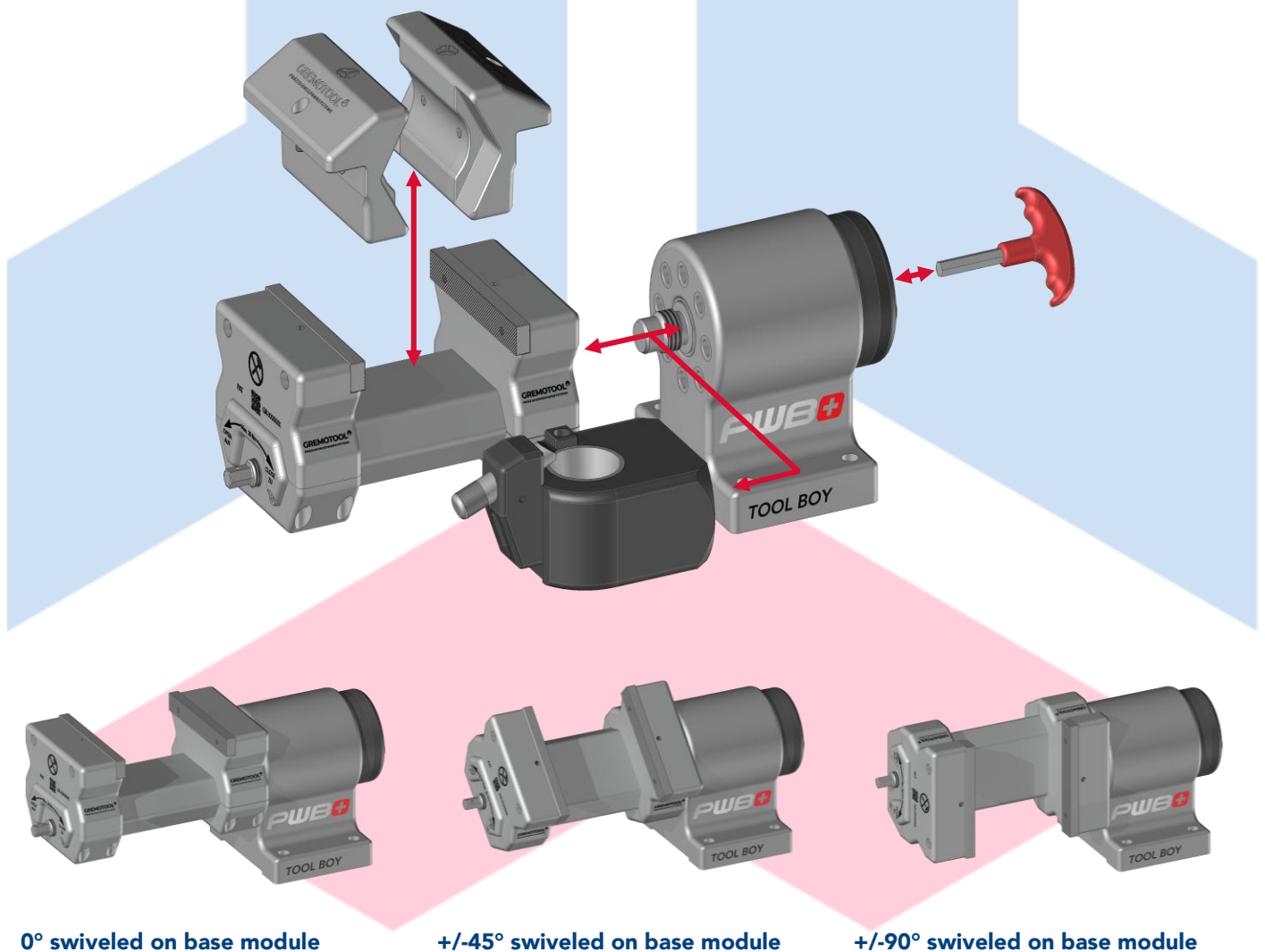


Accessories

Gremotool PAT Toolboy Vice

Gremotool PAT Toolboy Vice

Gremotool has added a new universal adapter to pwb's machining tool mounting aid. The PAT is a vice that can be attached to the base of the ToolBoy. This allows it to be used flexibly for clamping workpieces. The interaction of both elements allows the PAT to be swiveled, just like the machining tool holders. Various machining tools and workpieces can be clamped in the vice with magnetic protective jaws without damage and without having to change the adapter.





Regulations

MR 2023/1230 – MD 2006/42/EG

Operating instructions:

Detailed instructions are essential for the correct operation, maintenance and troubleshooting of the system. They must contain all safety-related information. Operating instructions will be available for the individual components. However, the system itself, i.e. the interaction of the individual components used, must be evaluated in a system operating manual.

CE-Declaration of Incorporation:

The CE marking confirms that the system complies with European safety and health requirements. This declaration is particularly important for machines in the EU.

Risk and safety assessment:

Before commissioning, a comprehensive analysis must be carried out to identify potential hazards and define appropriate protective measures.

Software update:

Regular updates ensure optimal performance and security improvements. They may include new features and bug fixes.

Cyber security:

In networked systems, data and access must be protected to prevent attacks, manipulation or unauthorised access.

Remote maintenance:

Modern systems often offer remote monitoring and maintenance capabilities, which can reduce downtime and lower maintenance costs.



Gremotool and Parotec

Gremotool clamping systems with Parotec

Optimise your logistics with Gremotool – your expert in workpiece handling

Efficiency in logistics is crucial for the smooth running of your business. A high-performance workpiece handling system is a key factor in this. Trust in Gremotool's expertise to find the best possible solution for your requirements.

Thanks to many years of experience and innovative approaches, Gremotool offers tailor-made systems that optimise your processes and simplify the handling of workpieces. This not only increases your productivity but also reduces time-consuming and cost-intensive processes.

Let us advise you and discover the advantages of a high-quality workpiece handling system from Gremotool. Contact us today for more information!



PAROTEC
spanntechnik · robotik · engineering

GREMOTOOL 
PRÄZISIONSSPANNSYSTEME

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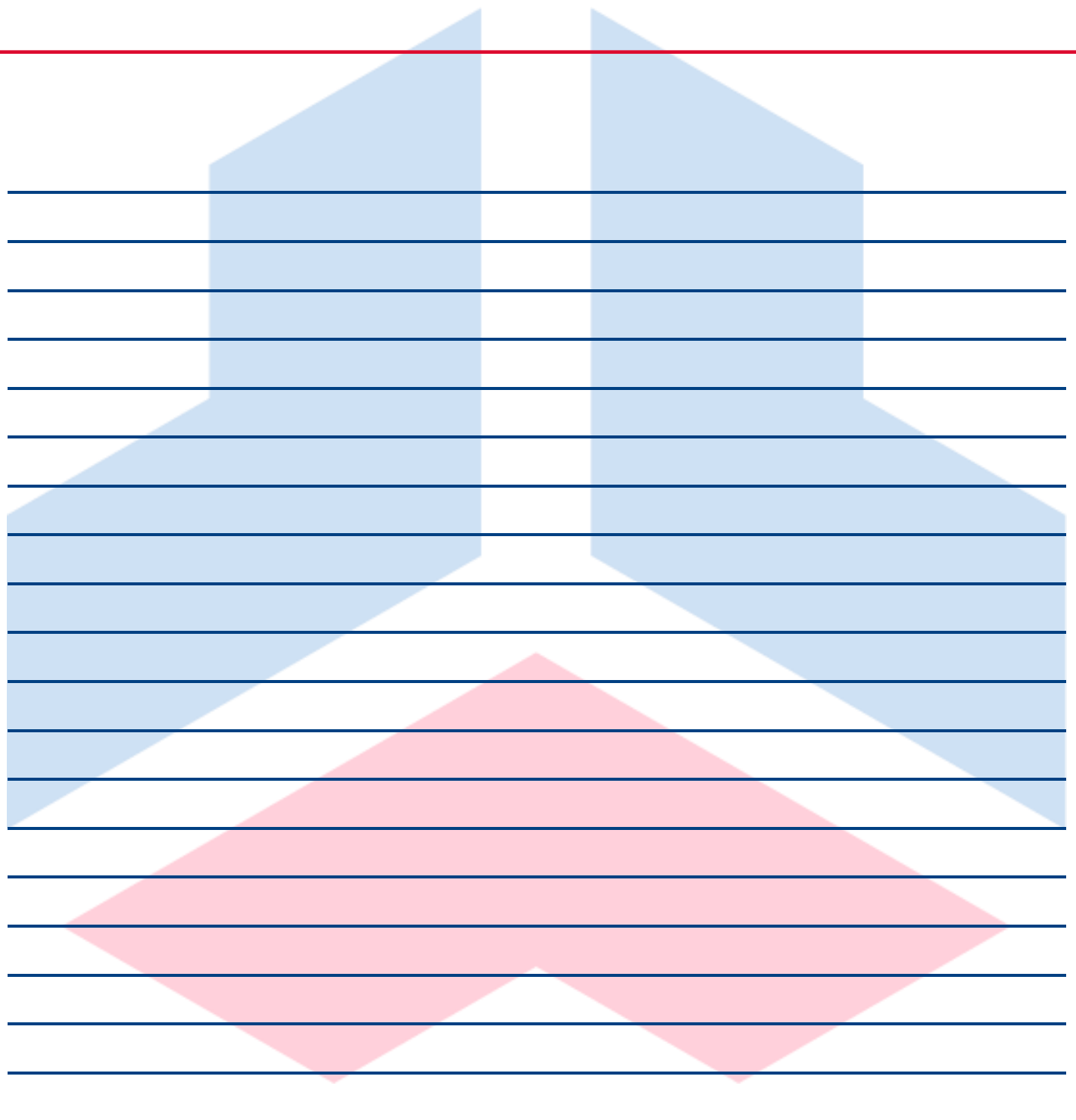
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www.gremotool.ch



Notes

A decorative background graphic featuring a large, light blue diamond shape with a smaller, light pink diamond shape inside it. The entire graphic is overlaid with a series of horizontal blue lines, creating a ruled paper effect.



Imprint

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Our general terms and conditions apply, which can be accessed at www.gremotool.ch.

Further catalogues can be downloaded from the website www.gremotool.ch.

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