# GREMOTOOL PRÄZISIONSSPANNSYSTEME

#### Erowa

Gremotool Clamping devices & Erowa









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Gremotool clamping devices with Erowa

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Gremotool clamping devices with Erowa

The automated production requires flexible and precise clamping devices. Erowa's zero-point clamping system provide a larger part of this flexibility. Different clamping devices require a common interface so that they can be customised 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.







Advantages Gremotool with Erowa

#### **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 with-out damaging the clamping device.

#### **Centering 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 retooling.

#### **Enclosed and low maintenance**

Due do the design of the centre clamps, no chips remain in the clamp-ing 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.





PMC-50 with Erowa ITS-148



#### **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

# GREMOTOOLA GRAZISIONSSPANNSYSTEME PRAZISIONSSPANNSYSTEME PRAZISIONSS

#### Centring precision +/-0.01mm

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

#### Suitable with pallets of Erowa

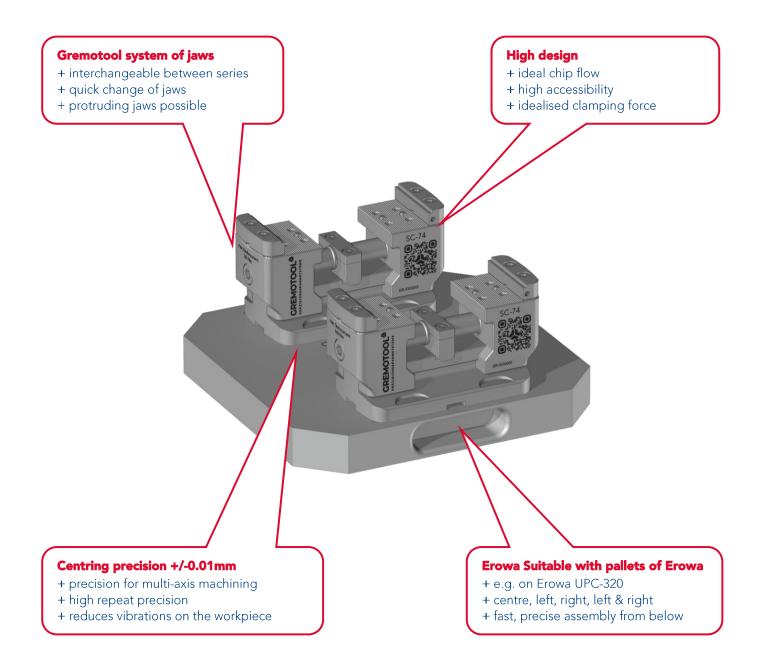
- + designed for automation
- + deep for larger workpiece in machine
- + RFID-Chip attachable





2x SC-74 with Erowa UPC-320



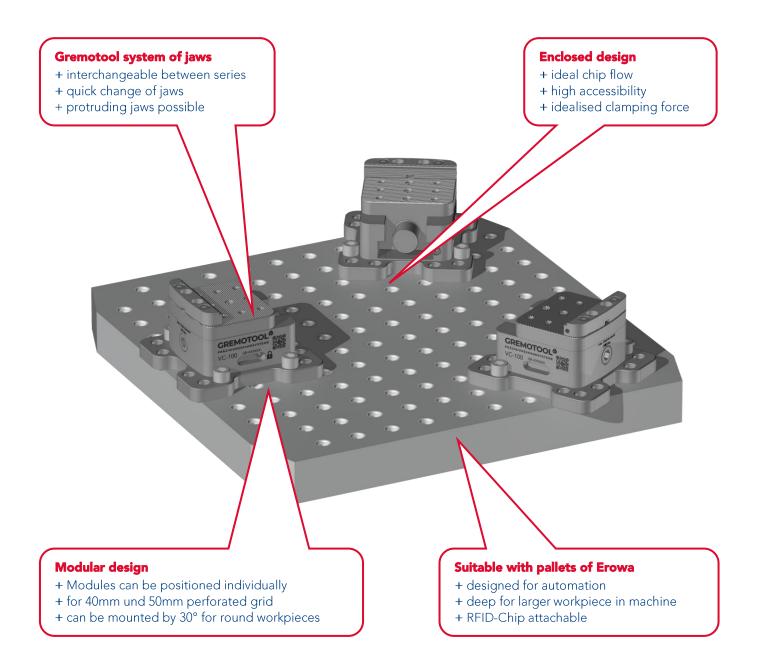






VC-74 vise modules with Erowa MTS-498



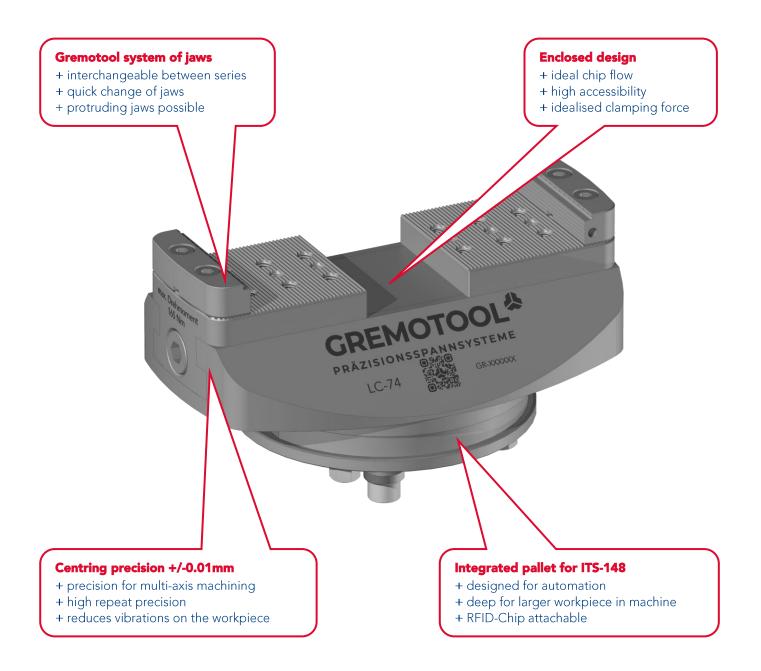






LC-74 with integrated Erowa ITS-148



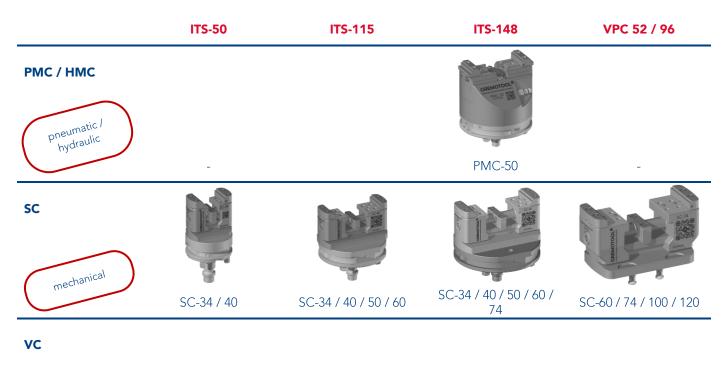






# Overview of products

Gremotool clamping devices with Erowa





RC (Autumn 24)





# Overview of products

Gremotool clamping devices with Erowa



MTS-225

MTS-398/200 MTS-398/250 MTS-498/250

#### PMC / HMC



CREMOTODE IN

PMC / HMC-50 / 60 / 60I / 74



PMC / HMC-60 / 60l /



PMC / HMC-50 / 60 / 60I / 74 / 100 / 120

SC



THE

SC-34 / 40 / 50 / 60 / 74 / 100 / 120



SC-34 / 40 / 50 / 60 / 74 / 100



SC-34 / 40 / 50 / 60 / 74 / 100 / 120

VC







VC-60 / 74 / 100 / 120 /

LC





LC-34 / 40 / 50 / 60 / 74 / 100 / 120



LC-34 / 40 / 50 / 60 / 74 / 100



LC-34 / 40 / 50 / 60 / 74 / 100 / 120 / 150

RC (Autumn 24)





Erowa ITS-50 with SC



The SC series can be mounted on the ITS-50 pallets from Erowa without modifications

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

The large range of jaws also offers suitable jaws for any application.

For the exact data of the SC series, please get directly in touch with us or consult the SC catalogue.



SC-34 with Erowa ITS-50 Pallet



SC-40 with Erowa ITS-50 Pallet





Erowa ITS-50 with LC



The LC series can be mounted on the ITS-50 pallets from Erowa without modifications.

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

The large range of jaws also offers suitable jaws for any application.

For the exact data of the LC series, please get directly in touch with us or consult the LC catalogue.



LC-34 with Erowa ITS-50 Pallet



LC-40 with Erowa ITS-50 Pallet





Erowa ITS-115 with SC



The SC series can be mounted on Erowa ITS-115 pallets without modifications.

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

The large range of jaws also offers suitable jaws for any application.

For the exact data of the SC series, please get in touch directly with us or consult the SC catalogue.



SC-40 with Erowa ITS-115 Pallet



SC-34 with Erowa ITS-115-Pallet



SC-50 with Erowa ITS-115-Pallet



SC-60 with Erowa ITS-115-Pallet

Further variants can be requested directly by Gremotool.

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Erowa ITS-115 with LC



The LC series can be mounted on the ITS-115 pallets from Erowa without modifications.

Due to the closed design of the LC series, no chips remain on the clamping device.

The large range of jaws also offers suitable jaws for any application.

For the exact data of the LC series, please get directly in touch with us or consult the LC catalogue.



LC-40 with Erowa ITS-115 Pallet



LC-34 with Erowa ITS-115-Pallet



LC-50 with Erowa ITS-115-Pallet



LC-60 with Erowa ITS-115-Pallet

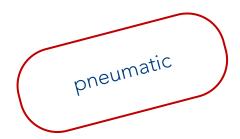
Further variants can be requested directly by Gremotool.

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Erowa ITS-148 with PMC



The PMC 50 is designed to fit the ITS-148 pallets of Erowa.

Pneumatically supplied from below through the pallet.

Using the reducing valve the clamping force can be individually adjusted to the workpiece.

The large range of jaws also offers suitable jaws for any application.

For the exact data of the PMC series, please get directly in touch with us or consult the PMC catalogue.



PMC-50 with Erowa ITS-148 Pallet





Erowa ITS-148 with SC



The SC series can be mounted on the ITS-148 pallets from Erowa without any modifications.

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

The large range of jaws also offers suitable jaws for any application.

For the exact data of the SC series, please get directly in touch with us or consult the SC catalogue.



SC-50 with Erowa ITS-148 Pallet



2x SC-40 with Erowa ITS-148-Pallet



SC-60 with Erowa ITS-148 Pallet



SC-74 with Erowa ITS-148 Pallet





Erowa ITS-148 with LC



The LC series can be mounted on the ITS-148 pallets from Erowa without any modifications.

Due to the closed design of the LC series, no chips remain on the clamping device.

The large range of jaws also offers suitable jaws for any application.

For the exact data of the LC series, please get directly in touch with us or consult the LC catalogue.



LC-50 with Erowa ITS-148 Pallet



2x LC-40 with Erowa ITS-148-Pallet



LC-60 with Erowa ITS-148 Pallet



LC-74 with Erowa ITS-148 Pallet

Weitere Varianten können direkt bei Gremotool angefragt werden.





Erowa VPC 52 / 96 with SC



The VPC 52 / 96 clamping pins from Erowa can be mounted on the SC series without modifications.

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

The large range of jaws also offers suitable jaws for any application.

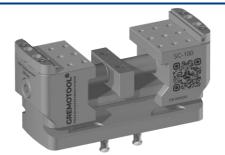
For the exact data of the SC series, please get directly in touch with us or consult the SC catalogue.



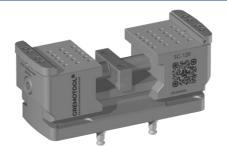
SC-74 with Erowa VPC 52 clamping pins



SC-60 with Erowa VPC 52 clamping pins



SC-100 with Erowa VPC 52 clamping pins



SC-120 with Erowa VPC 96 clamping pins





Erowa VPC 52 / 96 with LC



The LC series can be mounted on the VPC 52 / 96 clamping pins from Erowa without modifications.

Due to the closed design of the LC series, no chips remain on the clamping device.

The large range of jaws also offers suitable jaws for any application.

For the exact data of the LC series, please get directly in touch with us or consult the LC catalogue.



LC-74 with Erowa VPC 52 clamping pins



LC-50 with Erowa VPC 52 clamping pins



LC-60 with Erowa VPC 52 clamping pins



LC-100 with Erowa VPC 52 clamping pins



LC-120 with Erowa VPC 96 clamping pins



LC-150 with Erowa VPC 96 clamping pins





Erowa UPC-320 with PMC/HMC



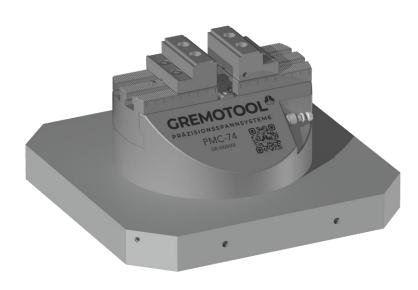
The PMC/HMC series is designed to fit the UPC-320 pallets of Erowa.

Pneumatically or hydraulically supplied from below through the pallet.

The clamping force of the PMC can be individually adjusted to the workpiece using the reducing valve.

The large range of jaws also offers suitable jaws for any application.

For the exact data of the PMC/HMC se-ries, please get directly in touch with us or consult the PMC/HMC catalogue.



PMC-74 with Erowa UPC-320 Pallet



PMC-50 with Erowa UPC-320 Pallet



PMC-60 with Erowa UPC-320 Pallet



PMC-60l (long) with Erowa UPC-320 Pallet



HMC-60 with Erowa UPC-320 Pallet



HMC-60l (long) with Erowa UPC-320 Pallet



HMC-74 with Erowa UPC-320 Pallet





Erowa UPC-320 mit SC

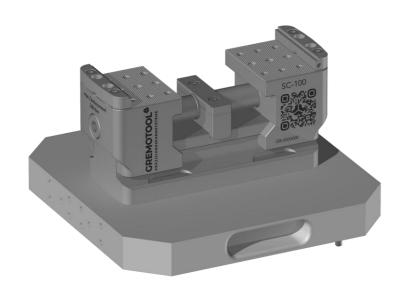


The SC series can be mounted on the UPC-320 pallets from Erowa without any modifications.

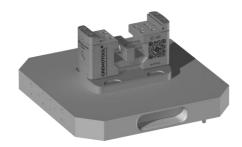
The height of the SC series enables optimum accessibility for 5-axis machining on workpieces.

The large range of jaws also offers suitable jaws for any application.

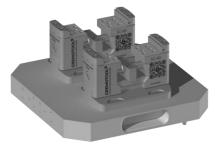
For the exact data of the SC series, please get directly in touch with us or consult the SC catalogue.



SC-100 with Erowa UPC-320 Pallet



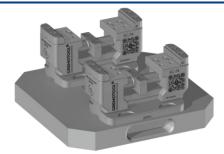
SC-60 with Erowa UPC-320-Pallet



2xSC-60 with Erowa UPC-320-Pallet



SC-74 with Erowa UPC-320-Pallet



2x SC-74 with Erowa UPC-320-Pallet



2x SC-100 with Erowa UPC-320-Pallet





Erowa UPC-320 with LC



The LC series can be mounted on the UPC-320 pallets from Erowa without any modifications.

Due to the closed design of the LC series, no chips remain on the clamping device.

The large range of jaws also offers suitable jaws for any application.

For the exact data of the LC series, please get directly in touch with us or consult the LC catalogue.



LC-100 with Erowa UPC-320 Pallet



LC-60 with Erowa UPC-320-Pallet



2x LC-60 with Erowa UPC-320-Pallet



LC-74 with Erowa UPC-320-Pallet



2x LC-74 with Erowa UPC-320-Pallet



2x LC-100 with Erowa UPC-320-Pallet



2x LC-120 with Erowa UPC-320-Pallet





Erowa MTS-225 with PMC/HMC



The PMC/HMC series is designed to fit the MTS-225 pallet from Erowa.

This is supplied from below through the pallet using pneumatics or hydraulics.

Using the reducing valve the clamping force can be individually adjusted to the workpiece.

The large range of jaws also offers suitable jaws for any application.

For the exact data of the PMC/HMC series, please get directly in touch with us or consult the PMC/HMC catalogue.



**HMC-60 with Erowa MTS-225 Pallet** 



PMC-60l with Erowa MTS-225 Pallet



PMC-74 with Erowa MTS-225 Pallet



HMC-60 with Erowa MTS-225 Pallet



HMC-60l with Erowa MTS-225 Pallet



HMC-74 with Erowa MTS-225 Pallet





Erowa MTS-225 with SC

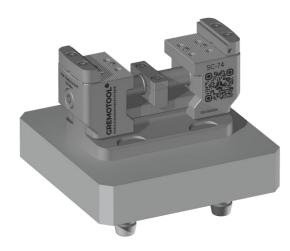


The SC series can be mounted on the MTS-225 pallets from Erowa without any modifications.

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

The large range of jaws also offers suitable jaws for any application.

For the exact data of the SC series, please get directly in touch with us or consult the SC catalogue.



SC-74 with Erowa MTS-225 Pallet



SC-60 with Erowa MTS-225-Pallet



2x SC-60 with Erowa MTS-225 Pallet



2x SC-74 with Erowa MTS-225 Pallet



SC-100 with Erowa MTS-225 Pallet





Erowa MTS-225 with LC



The LC series can be mounted on the MTS-225 pallets from Erowa without any modifications.

Due to the closed design of the LC series, no chips remain on the clamping device.

The large range of jaws also offers suitable jaws for any application.

For the exact data of the LC series, please get directly in touch with us or consult the LC catalogue.



LC-74 with Erowa MTS-225 Pallet



LC-60 with Erowa MTS-225-Pallet



2x LC-60 with Erowa MTS-225 Pallet



2x LC-74 with Erowa MTS-225 Pallet



LC-100 with Erowa MTS-225 Pallet





Erowa MTS-398/498 with PMC/HMC



The PMC/HMC series is designed to fit the MTS-398/498 pallets of Erowa.

Pneumatically or hydraulically supplied from below through the pallet.

The clamping force of the PMC can be individually adjusted to the workpiece using the reducing valve.

The large range of jaws also offers suitable jaws for any application.

For the exact data of the PMC/HMC se-ries, please get directly in touch with us or consult the PMC/HMC catalogue.



PMC-120 with Erowa MTS-398 Pallet



PMC-74 with Erowa MTS-398 Pallet



PMC-100 with Erowa MTS-398 Pallet



2x PMC-100 with Erowa MTS-498 Pallet



HMC-74 with Erowa MTS-398 Pallet



HMC-100 with Erowa MTS-398 Pallet



HMC-120 with Erowa MTS-398 Pallet





Erowa MTS-398/498 with SC

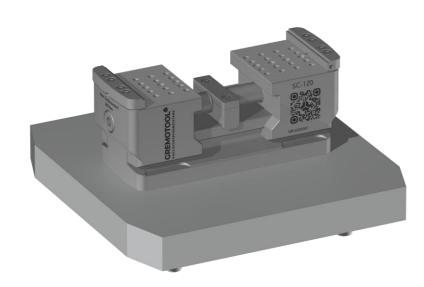


The SC series can be mounted on the MTS-398/498 pallets from Erowa without any modifications.

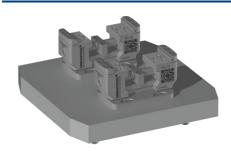
The height of the SC series enables optimum accessibility for 5-axis machining on workpieces.

The large range of jaws also offers suitable jaws for any application.

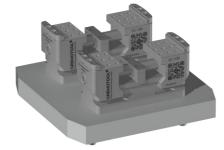
For the exact data of the SC series, please get directly in touch with us or consult the SC catalogue.



SC-120 with Erowa MTS-398 Pallet



2x SC-74 with Erowa MTS-398 Pallet



2x SC-100 with Erowa MTS-398 Pallet



2x SC-120 with Erowa MTS-498 Pallet



6x SC-60 with Erowa MTS-498 Pallet





Erowa MTS-398/498 with VC

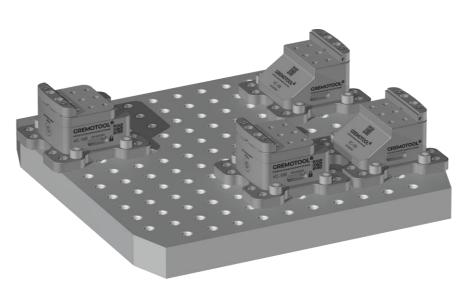


The VC series can be mounted on the bore hole grid panels and on the MTS-398/498 pallets from Erowa without modifications.

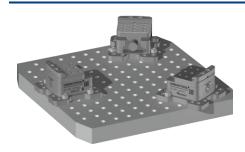
The modular design of the clamping system allows the clamping device to be customised to the respective application.

The large range of jaws also offers suitable jaws for any application.

For the exact data of the VC series, please get directly in touch with us or consult the VC catalogue.



2x VC-100 with Erowa MTS-498 Pallet



3x VC-100 with Erowa MTS 498 Pallet





Erowa MTS-398/498 with LC



The LC series can be mounted on MTS-398/498 pallets from Erowa without any modifications.

Due to the closed design of the LC series, no chips remain on the clamping device.

The large range of jaws also offers suitable jaws for any application.

For the exact data of the LC series, please get directly in touch with us or consult the LC catalogue.



LC-120 with Erowa MTS-398 Pallet



2x LC-74 with Erowa MTS-398 Pallet



2x LC-100 with Erowa MTS-398 Pallet



2x LC-120 with Erowa MTS-398 Pallet



LC-150 with Erowa MTS-498 Pallet



2x LC-150 with Erowa MTS-498 Pallet



6x LC-60 with Erowa MTS-498 Pallet





# **Applications**

#### Zero-point clamping systems

The Erowa centring elements can be attached directly to the clamping system to generate fewer interfaces.

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

Special dimensions are another way of optimising the space required for production.

For these suggested solutions, please get directly in touch with us.



LC-60 with integrated Erowa ITS-148 Pallet



LC-34 with integrated Erowa ITS-50 Pallet



LC-74 with integrated Erowa ITS-148 Pallet



SC-40b with wide base on Erowa ITS-115 Pallet





# **Applications**

#### Gremotool Fixture

Today's cost-effective production requires flexible solutions for maximum efficiency. We can contribute to maximum utilisation of the processing machine with towers, prisms, or pyramids.

For suggested solutions in multiple clamping, please get directly in touch with us.



2x LC-150k (short) with Prism with Erowa ITS-148 & UPC-320 Pallet



4x SC-50k (short) & LC-40 with Pyramid on Erowa UPC-320 Pallet



PMC-74 with Erowa MTS-398 Pallet & Gripper Coupling



8x LC-34 with Pyramid on Erowa
UPC-320 Pallet
Further variants can be requested directly by Gremotool.

Tower with MTS zero-point chuck

zero-point chuck





#### 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.

	34	40	50	60	74	100	120	150
Nr. 837110	Χ	Х	Х	Х	Х	Х	Х	Χ
Nr. 837150	Χ	Х	Х	Х	Х	Х	Х	Χ
Nr. 837250	Χ	Х	Х	Х	Х	Χ	Х	Χ
Nr. 837300	Χ	Х	Х	Х	Х	Х	Х	Χ
Nr. 837350	Χ	Х	Х	Х	X	Х	Х	Χ
Nr. 837380	Χ	Х	Х	Х	Х	Χ	Х	Χ
Nr. 837400	Χ	Х	Х	Х	Х	Χ	Х	Χ
Nr. 837410	Χ	Х	Х	Х	Х	Χ	Х	Χ
Nr. 837450	Х	Х	Х	X	X	Χ	Х	Χ
Nr. 837500	Х	Х	X	Х	X	Х	Х	Χ
Nr. 837702	X	Χ	X	X	X	Χ	Χ	Χ
Nr. 837703	X	Χ	Χ	X	X	X	Χ	Х
	Nr. 837150 Nr. 837250 Nr. 837300 Nr. 837350 Nr. 837380 Nr. 837400 Nr. 837410 Nr. 837450 Nr. 837500 Nr. 837702	Nr. 837110 X Nr. 837150 X Nr. 837250 X Nr. 837300 X Nr. 837350 X Nr. 837380 X Nr. 837400 X Nr. 837410 X Nr. 837450 X Nr. 837500 X Nr. 837702 X	Nr. 837110	Nr. 837110       X       X         Nr. 837150       X       X         Nr. 837250       X       X         Nr. 837300       X       X         Nr. 837350       X       X         Nr. 837400       X       X         Nr. 837410       X       X         Nr. 837500       X       X         Nr. 837702       X       X	Nr. 837110       X       X       X         Nr. 837150       X       X       X         Nr. 837250       X       X       X         Nr. 837300       X       X       X         Nr. 837350       X       X       X         Nr. 837400       X       X       X         Nr. 837410       X       X       X         Nr. 837500       X       X       X         Nr. 837702       X       X       X	Nr. 837110         X         X         X         X           Nr. 837150         X         X         X         X           Nr. 837250         X         X         X         X           Nr. 837300         X         X         X         X           Nr. 837380         X         X         X         X           Nr. 837400         X         X         X         X           Nr. 837410         X         X         X         X           Nr. 837500         X         X         X         X           Nr. 837702         X         X         X         X	Nr. 837110         X         X         X         X         X           Nr. 837150         X         X         X         X         X           Nr. 837250         X         X         X         X         X           Nr. 837300         X         X         X         X         X           Nr. 837380         X         X         X         X         X           Nr. 837400         X         X         X         X         X           Nr. 837410         X         X         X         X         X           Nr. 837450         X         X         X         X         X           Nr. 837702         X         X         X         X         X	Nr. 837110         X

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

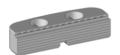


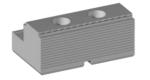


#### Accessories

#### Gremotool range of jaws







Nr. 837110



Nr. 837150 Nr. 837250



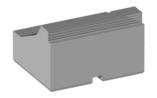


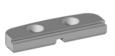


Nr. 837300



Nr. 837380





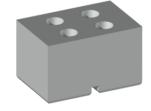


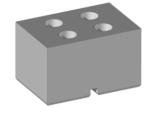
Nr. 837400

Nr. 837410

Nr. 837450



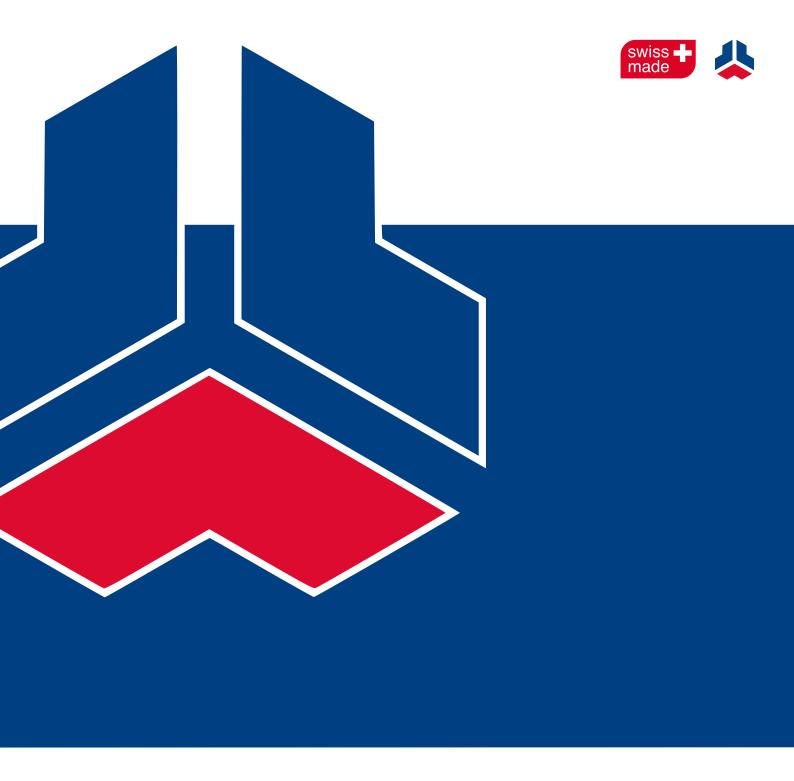




Nr. 837500

Nr. 837702

Nr. 837703





# **Imprint**

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tool.ch.

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