

# MATRIX BLUE CLAMP

Fast and easy clamping!

"Self-molding" in jig-and-fixture design  
with repeatable accuracy.





## MATRIX – Innovations

### Market leader in flexible clamping systems for work pieces

**The new clamping and mold clamping systems of MATRIX GmbH will revolutionize your workflows in all areas of clamping technology and assembly and replace conventional clamping technology in the long term.**

The new clamping systems are perfectly designed for use not only in labs and in metrology, but also in all areas where optimum hold and adaptable mold clamping are required. As a user, you are responsible for the optimum design of workflows in measurement engineering and production technology.

You know how difficult it can be to clamp work pieces that have complicated geometries. The unique and revolutionary technology of our clamping and holding systems will help you optimize your processes.

The MATRIX clamping systems with their individually movable pins replace high-cost dedicated fixtures and a wide range of molding elements. The MATRIX clamping modules conform quickly to various work piece contours to form a flexible, nested fixture.



MATRIX® is the recipient of the  
Baden-Württemberg Innovation Award  
– **Dr.-Rudolf-Eberle-Preis** –

## The **MATRIX** system “Self-molding” in jig-and-fixture design with repeatable accuracy

**MATRIX – Your partner for high-performance holding and clamping systems. To be successful in today’s world, you first need to be flexible. With MATRIX you opt for maximum flexibility. The MATRIX system has already convinced and won over many well-known companies; ranging from watchmakers to Formula One suppliers.**

The idea: the work piece itself forms the support. Like a pin cushion, the pins of the MATRIX module adjust to every shape. Simply, quickly, precisely – work pieces can be perfectly held or clamped in position. MATRIX has perfected a simple idea and offers an innovative approach to fixturing. With the practical modular system, all MATRIX modules can be combined with each other.

In conjunction with adapters, angle connectors, cone and prism supports, the pin modules can be optimally adapted to every shape.

How you benefit: flexible, cost-effective, universal in use, expandable.

Based on years of experience with our customers, our complete set for various applications are very popular in the market.

Users in the area of jig-and-fixture design have a complete range of products to choose from. All accessories can, of course, be ordered separately and used with all versions. This allows you to customize the system to the task at hand.

Today and tomorrow.



The basic principle:  
Pin cushion





## MATRIX BLUE CLAMP

### a “must-have” in metrology

**Turbine blades and other complex parts need to be held securely in position during machining or measuring, which is often impossible with conventional systems. With its ingenious system, MATRIX offers a universal solution that is modular, adaptable and easy to use.**

If measuring the turbine blades is a requirement, which it is, the next question is how to hold these geometrically complex parts, which vary from part to part, in place in order to work unobstructed? The answer is provided by the clever supporting, holding and clamping system that has been developed by MATRIX. As a system, it has been designed to replace conventional, expensive and inflexible clamping systems.

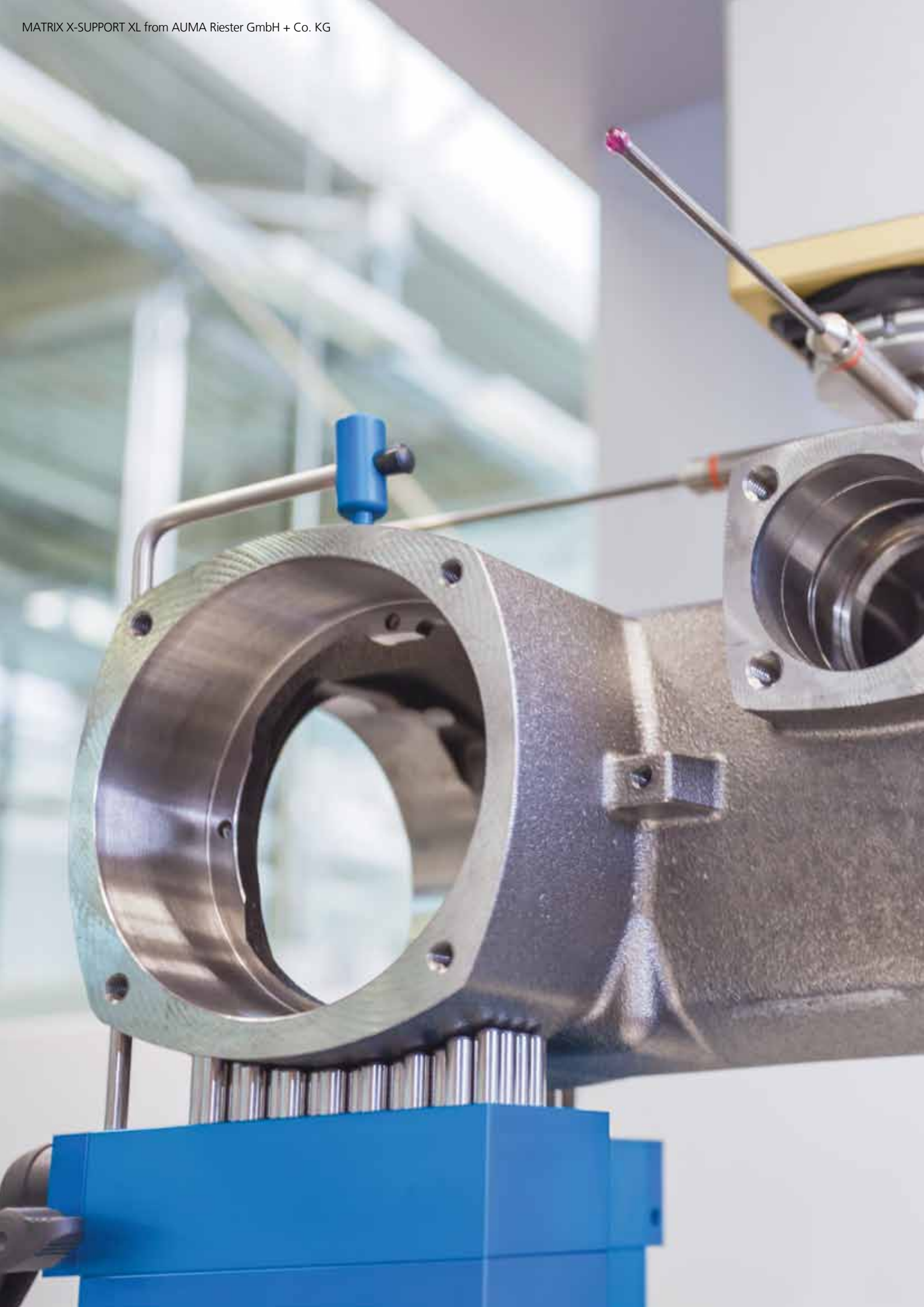
Jigs rigged together from miscellaneous parts are now a thing of the past. The system’s structural design is ingenious. Individually manufactured pins of stainless steel generate a light resistance. The molded jaws are formed within seconds by the work piece itself and locked in position with a single movement of a lever.

The user then has a part-specific support almost instantly. If a new mold is required, the initial position can be restored by releasing the locating screw. Because the clamping system consists of various modules and since these can be combined in any way with one another, the system is extremely versatile.

Pre-assembled sets are available for fast deployment and already cover a comprehensive array of applications.



MATRIX X-SUPPORT XL is a simple and quick-action form clamping system, which is perfectly suited for use on parts with varying geometries.



## Holding, clamping, supporting of parts with complex shapes – such as cast housings – without using force

Due to the wide range of available components, the clamping system is a fit for every task. Sets can, for example, comprise of the X-Support-XL module in a 90-degree housing with 67 pins, each of which is 6 mm in diameter and has a 21 mm pin stroke. A T-slot profile plate is used as a base. Added to this are connectors, base plates, adapters, horizontal clamps, pressure pads and numerous other components.

Handling and maintenance of the MATRIX clamping system is very simple and fast, which is important in measuring labs and on the shop floor. Consequently, the components are also provided in a clearly structured, well assorted case. Since the

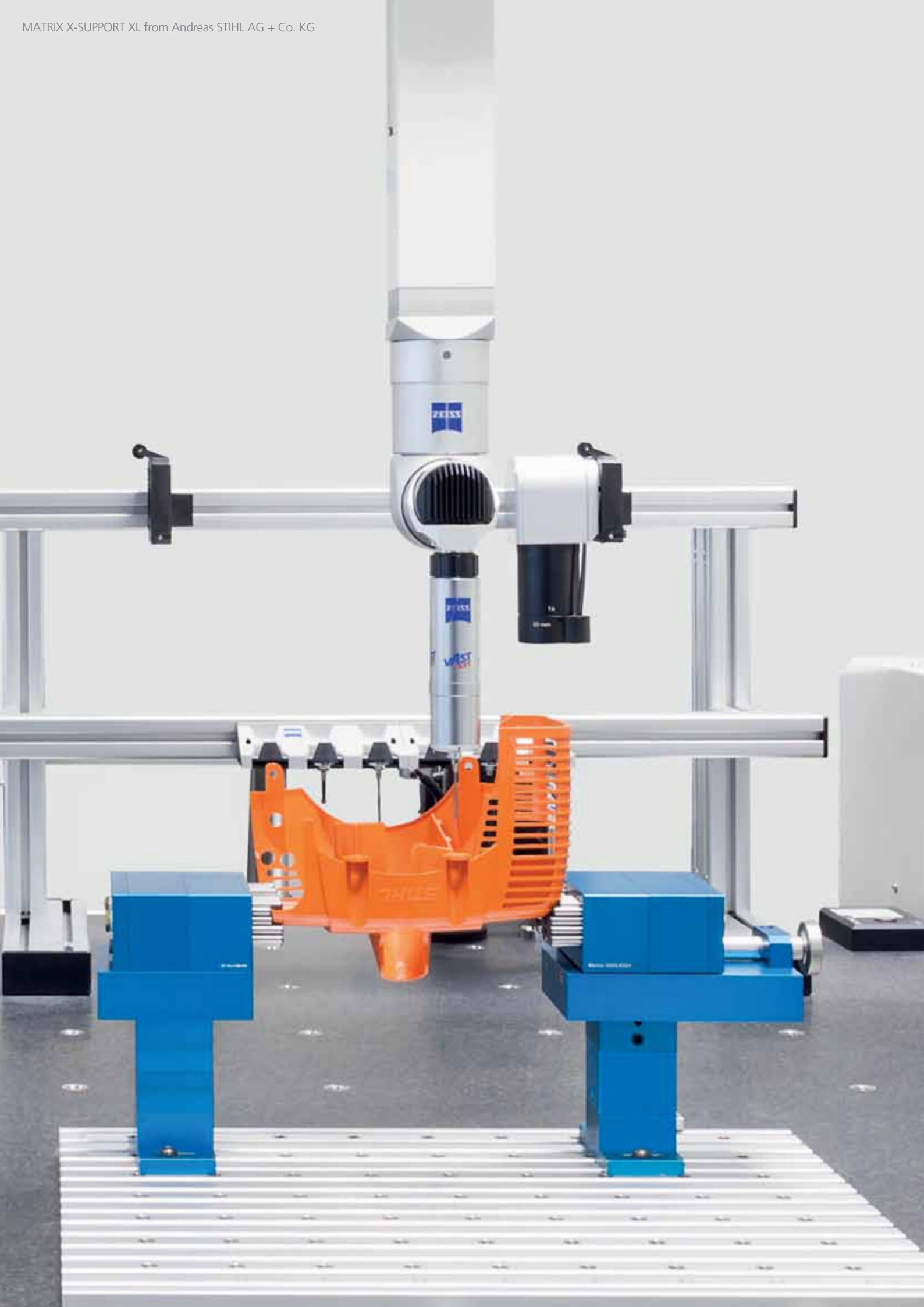
clamping components only consist of the holder with the clamping pins and a the clamping force is achieved by turning a hand lever or Allen wrench, the system remains virtually free of wear. Pressure spots on the work pieces are non-existent because of the form fit. The pins, which cradle the work piece, are made of stainless steel and the modules are made of aluminum alloy. The result: a high degree of stability combined with low intrinsic weight and maintenance free.

Text: Dietmar Kuhn, Blechnet 1/2012  
[www.blechnet.com](http://www.blechnet.com)

The advantages of the MATRIX "BLUE CLAMP" clamping systems at a glance:

- Optimum holding of complex work pieces.
- Very fast, true-to-contour holding of the work piece.
- No need to stock separate work piece supports.
- Up to 80% cost reduction in jig-and-fixture construction.
- Individual, multi-purpose and modular system.
- Easy handling and storing in the MATRIX® case.





# MATRIX BLUE CLAMP

## Overview of the modular systems

### MATRIX replaces cost-intensive special-purpose jigs

Special emphasis is put on the development of the pin and function modules which are combined into effective

modular sets. All components of these modular systems are multifunctional and compatible. The number of individual modules is purposely kept small. The present range with only a few modules achieves the objective quickly and cost-effectively.

### The following systems are available:

#### X-SUPPORT

X-SUPPORT	<a href="#">XL</a>	<a href="#">Page 12</a>
X-SUPPORT	<a href="#">XL LIGHT</a>	<a href="#">Page 16</a>
X-SUPPORT	<a href="#">SXS</a>	<a href="#">Page 20</a>
X-SUPPORT	<a href="#">XS</a>	<a href="#">Page 25</a>

#### X-GRIP

X-GRIP	<a href="#">XL</a>	<a href="#">Page 27</a>
X-GRIP	<a href="#">XS</a>	<a href="#">Page 28</a>
X-GRIP	<a href="#">XS LIGHT</a>	<a href="#">Page 33</a>

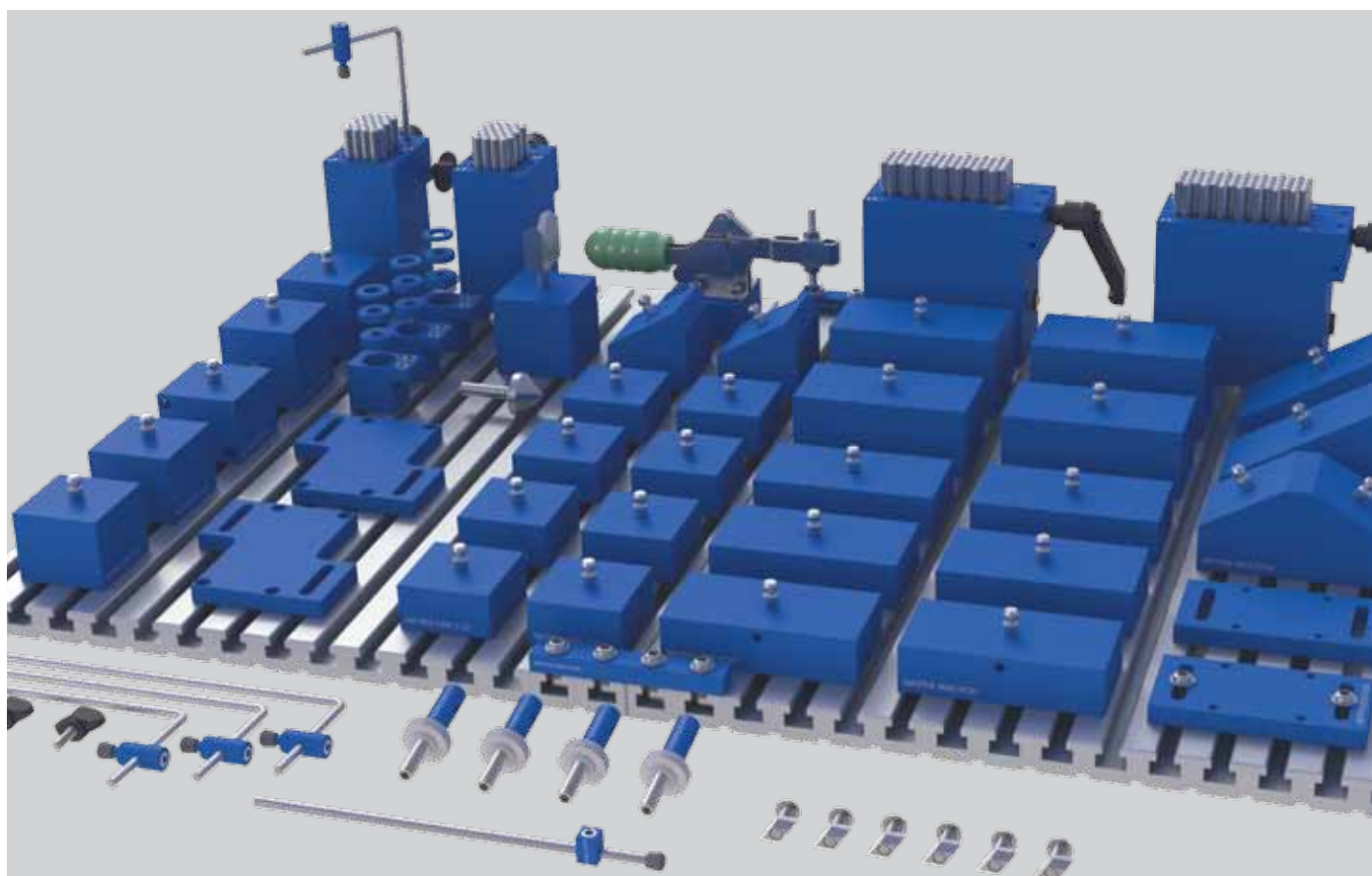
#### ACCESSORY

X-SUPPORT	<a href="#">PROFIL</a>	<a href="#">Page 36</a>
X-SHIFT		<a href="#">Page 39</a>
X-TABLE		<a href="#">Page 41</a>
X-GRID / X-SUPPORT OPTIONAL		<a href="#">Page 42</a>

#### ADDITIONAL INFORMATION

Pin Versions	<a href="#">Page 45</a>
More MATRIX	<a href="#">Page 46</a>
MATRIX interfaces	<a href="#">Page 46</a>





**X-SUPPORT XL** – As specialist for complicated plastic, cast and car body parts, X-SUPPORT XL is especially suited for use with measuring equipment and in assembly facilities. – The perfect solution!

The modular system consists of the following individual components:

Modules	Article no.	Quantity	Description	Size and information:			
	0050.6724	2 x	X-SUPPORT XL Modul	Dimension: 50 x 100 x 75 mm, Pin field: approx. 79 x 30 mm, Number of pins: 67 pieces, Pin diameter: 6 mm, Pin stroke: 21 mm			
	0050.6726	2 x	Connector housing				
	0050.3124	2 x	X-SUPPORT XL Modul	Dimension: 50 x 50 x 75 mm, Pin field: approx. 37 x 30 mm, Number of pins: 31 pieces, Pin diameter: 6 mm, Pin stroke: 21 mm			
	0050.3126	2 x	Connector housing				
Components	Article no.	Quantity	Description	Components	Article no.	Quantity	Description
	0050.3127	2 x	Connector 25 x 50 x 50 mm		0050.6727	2 x	Connector 25 x 50 x 100 mm
	0050.3128	2 x	Base plate 10 x 50 x 100 mm		0050.6728	2 x	Base plate 10 x 100 x 100 mm



Components	Article no.	Quantity	Description	Components	Article no.	Quantity	Description
	0050.3125	6 x	Adapter 25 x 50 x 50 mm		0050.6740	2 x	Adapter 40 x 50 x 100 mm
	0050.3129	1 x	Horizontal clamp		0050.6750	2 x	Adapter 50 x 100 x 100 mm
	0050.3130	2 x	Angle 30° 50 x 50 mm		0050.3115	2 x	Pressure pad 120 mm
	0050.3140	2 x	Adapter 40 x 50 x 50 mm		0050.3116	2 x	Pressure pad 200 mm
	0050.3141	1 x	Adapter for pressure pad 40 x 50 x 50 mm		0050.3117 0050.3119	1 x	Stop and adjusting ring
	0050.3150	2 x	Joint 50 x 50 x 50 mm		0050.3118	4 x	Extension set
	0050.3151	1 x	Component for use 50 x 50 x 50 mm		0900.4001 0900.4002	1 x 1 x	Cone support Prism support
	0050.6725	4 x	Adapter 25 x 50 x 100 mm		0900.2501	1 Set = 8 Pieces	Set of fastening parts
	0050.6730	2 x	Angle 30° 50 x 100 mm		0900.2500	1 Set = 2 Pieces	Connector
	0050.6732	1 x	Double angle 30° 50 x 100 mm		0900.0501	3 x	Gripper pads
	0900.3620	2 x	Bow-type handles		0900.0500	2 x	T-slot profile plate Dimension: 375 x 500 x 20 mm Slot width: 8 mm
					0900.0000	1 x	Screwdriver





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MATRIX 0050.6724

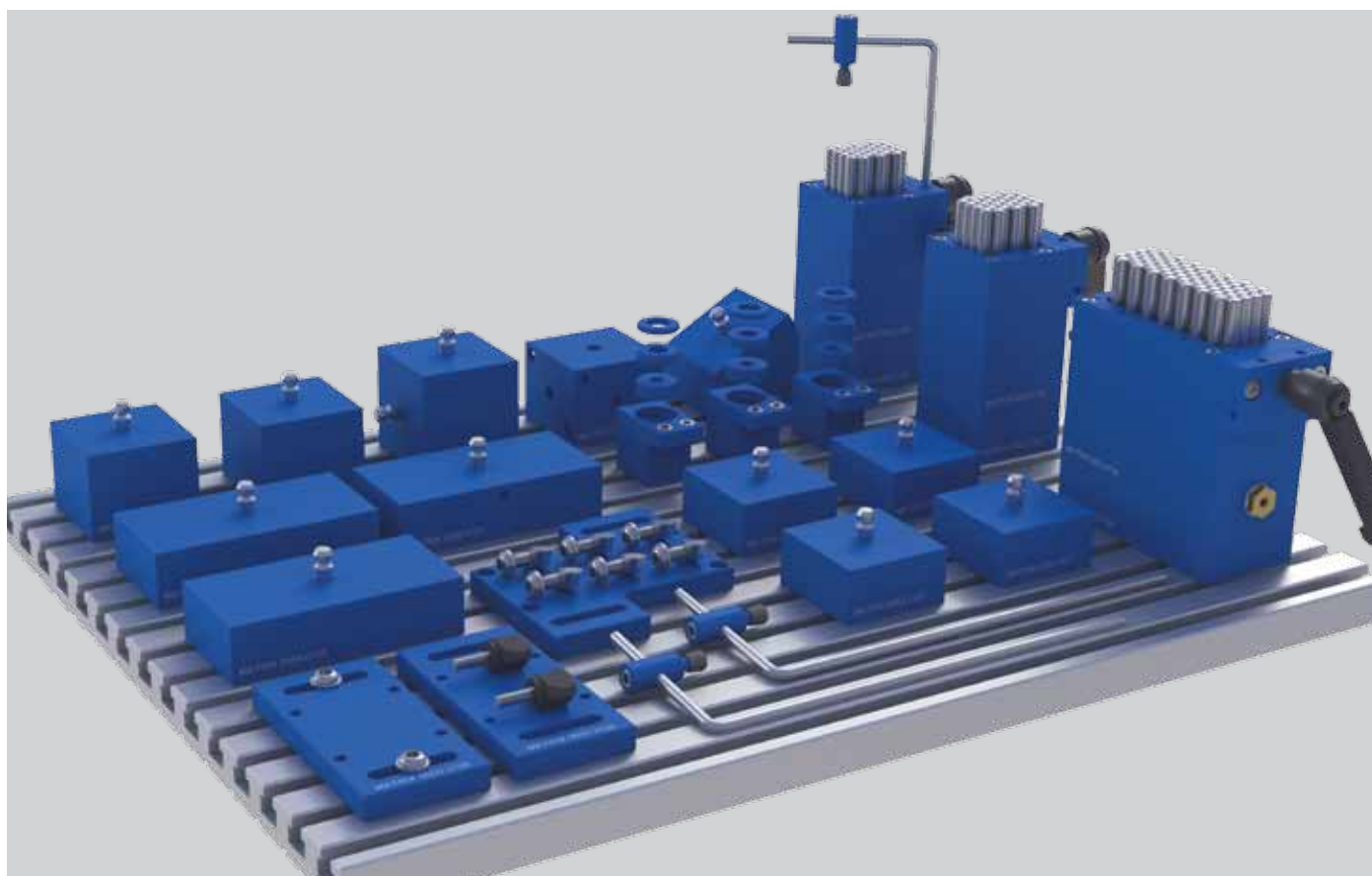
matrix-innovations.com

MATRIX 0050.6726

MATRIX 0050.6727




# X-SUPPORT XL LIGHT Order number: 0050.3169



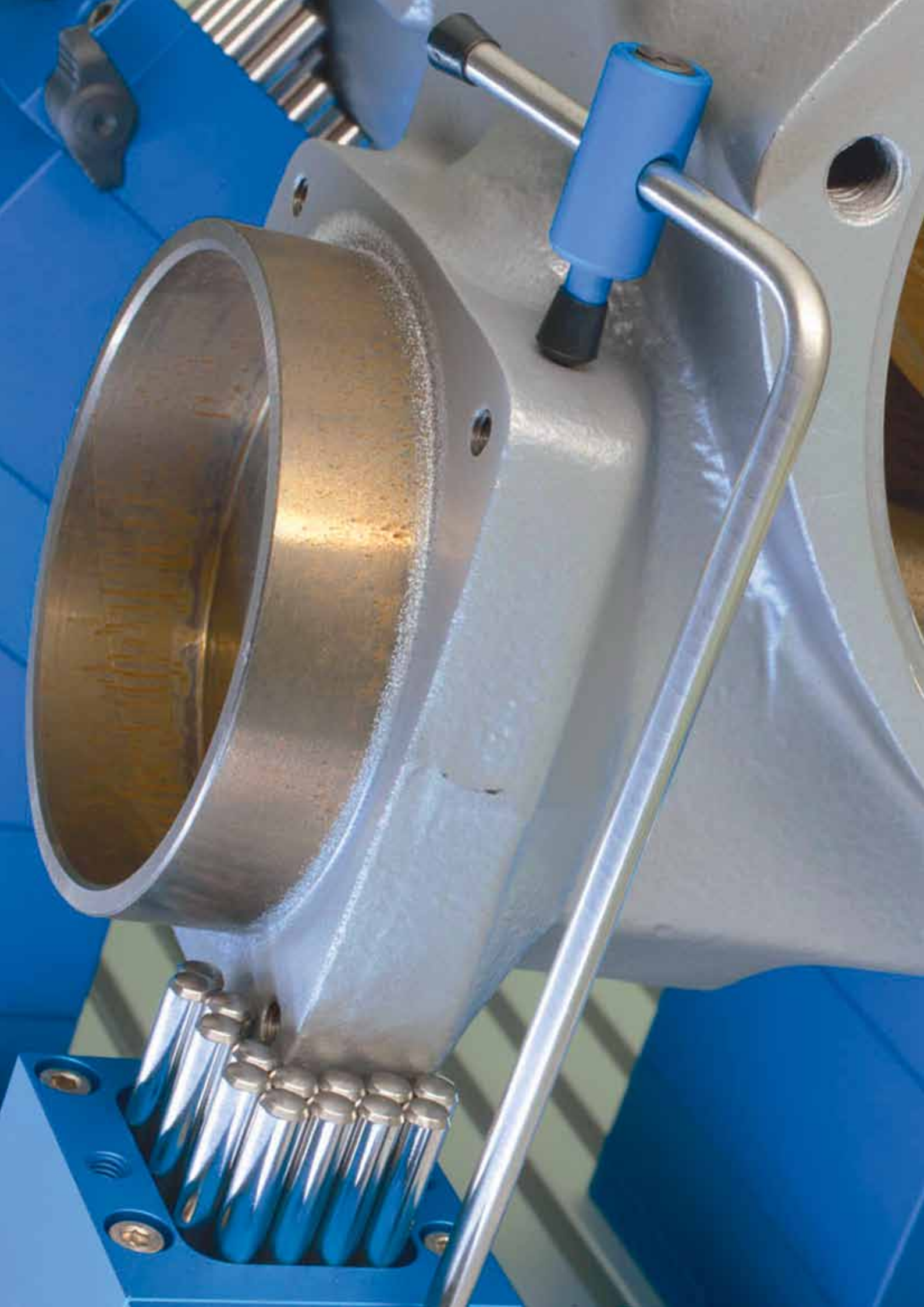
**X-SUPPORT XL LIGHT** – Smaller version of the X-SUPPORT XL also for heavy loads and medium-sized work pieces.

The modular system consists of the following individual components:

Modules	Article no.	Quantity	Description	Size and information:			
	0050.6724	1 x	X-SUPPORT XL Modul	Dimension: 50 x 100 x 75 mm, Pin field: approx. 79 x 30 mm, Number of pins: 67 pieces, Pin diameter: 6 mm, Pin stroke: 21 mm			
	0050.6726	1 x	Connector housing				
	0050.3124	2 x	X-SUPPORT XL Modul	Dimension: 50 x 50 x 75 mm, Pin field: approx. 37 x 30 mm, Number of pins: 31 pieces, Pin diameter: 6 mm, Pin stroke: 21 mm			
	0050.3126	2 x	Connector housing				
Components	Article no.	Quantity	Description	Components	Article no.	Quantity	Description
	0050.3127	2 x	Connector 25 x 50 x 50 mm		0050.6727	1 x	Connector 25 x 50 x 100 mm
	0050.3128	2 x	Base plate 10 x 50 x 100 mm		0050.6728	1 x	Base plate 10 x 100 x 100 mm

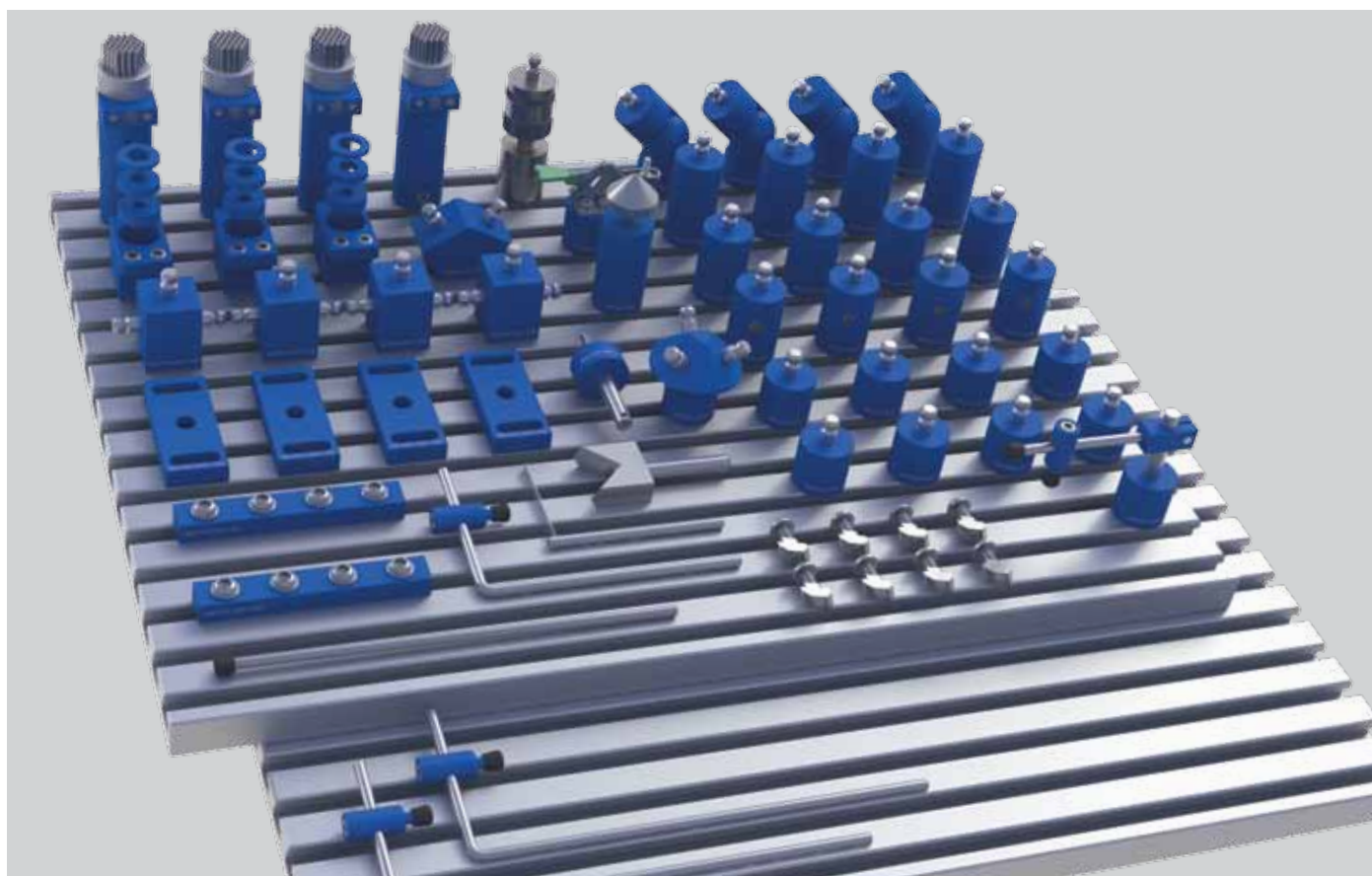
Components	Article no.	Quantity	Description	Components	Article no.	Quantity	Description
	0050.3125	2 x	Adapter 25 x 50 x 50 mm		0050.3115	1 x	Pressure pad 120 mm
	0050.3130	1 x	Angle 30° 50 x 50 mm		0050.3116	2 x	Pressure pad 200 mm
	0050.3140	2 x	Adapter 40 x 50 x 50 mm		0050.3141	1 x	Adapter for pressure pad 40 x 50 x 50 mm
	0050.6725	2 x	Adapter 25 x 50 x 100 mm		0050.3150	1 x	Joint 50 x 50 x 50 mm
	0900.0501	3 x	Gripper pads		0900.2501	1 Set = 8 Pieces	Set of fastening parts
	0900.3620	2 x	Bow-type handles		0900.0500	1 x	T-slot profile plate Dimension: 375 x 500 x 20 mm Slot width: 8 mm
	0900.0000	1 x	Screwdriver				











**X-SUPPORT SXS** – If the interfering contour needs to be kept particularly small, the X-Support SXS is the ideal choice. Despite its small footprint, complex work pieces can be held securely. – Impressive diversity!

The modular system consists of the following individual components:

Modules	Article no.	Quantity	Description	Size and information:			
	0050.1237	4 x	X-SUPPORT SXS Modul	Dimension: ø 26 mm, Number of pins: 37 Pieces, Pin diameter: 2,5 mm, Pin stroke: 12 mm			
Components	Article no.	Quantity	Description	Components	Article no.	Quantity	Description
	0050.1227	4 x	Connector 25 x ø 26 mm		0900.0501	3 x	Gripper pads
	0050.1228	4 x	Base plate 65 x 28 x 10 mm		0900.2500	1 Set = 2 Pieces	Connector
	0050.1225	4 x	Adapter 25 x ø 26 mm		0050.1216	1 x	Pressure pad ø 26 mm

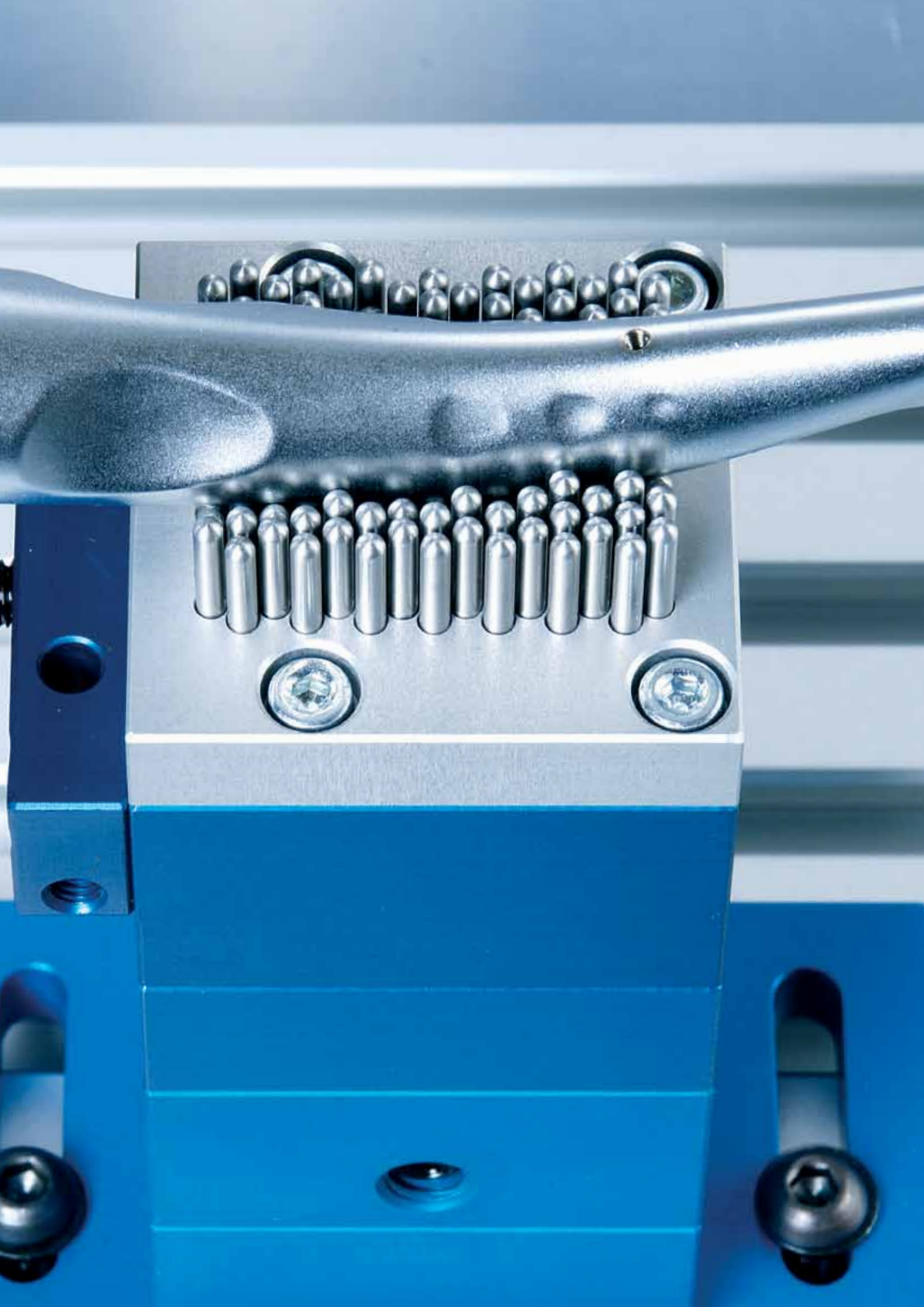
Components	Article no.	Quantity	Description	Components	Article no.	Quantity	Description
	0050.1229	1 x	Horizontal clamp		0050.1425	1 x	Pressure pad
	0050.1230	4 x	Angle, infinitely variable ø 26 mm		0050.3115	1 x	Pressure pad 120 mm
	0050.1232	1 x	Double angle 30°		0050.3116	2 x	Pressure pad 200 mm
	0050.1233	1 x	Triple angle 30°		0050.3117	1 x	Stop
	0050.1240	4 x	Adapter 40 x ø 26 mm		0050.1241	4 x	Component for pressure pad 40 x ø 26 mm
	0050.1243	1 x	Stepless height- adjustable module (15 mm) ø 26 mm		0900.4001	1 x	Cone insert 90°
	0050.1250	4 x	Adapter 50 X ø 26 mm		0900.4002	1 x	Prism insert 90°
	0050.1251	1 x	Components for use 50 x ø 26 mm		0900.4003	1 x	Single pin insert Pin diameter: 5 mm, Hub: 19 mm
	0050.1252	4 x	Joint 90°		0900.2501	1 Set = 8 Pieces	Set of fastening parts
	0900.0500	2 x	T-slot profile plate Dimension: 375 x 500 x 20 mm Slot width: 8 mm		0900.3620	2 x	Bow-type handles
	0900.0000	1 x	Screwdriver				



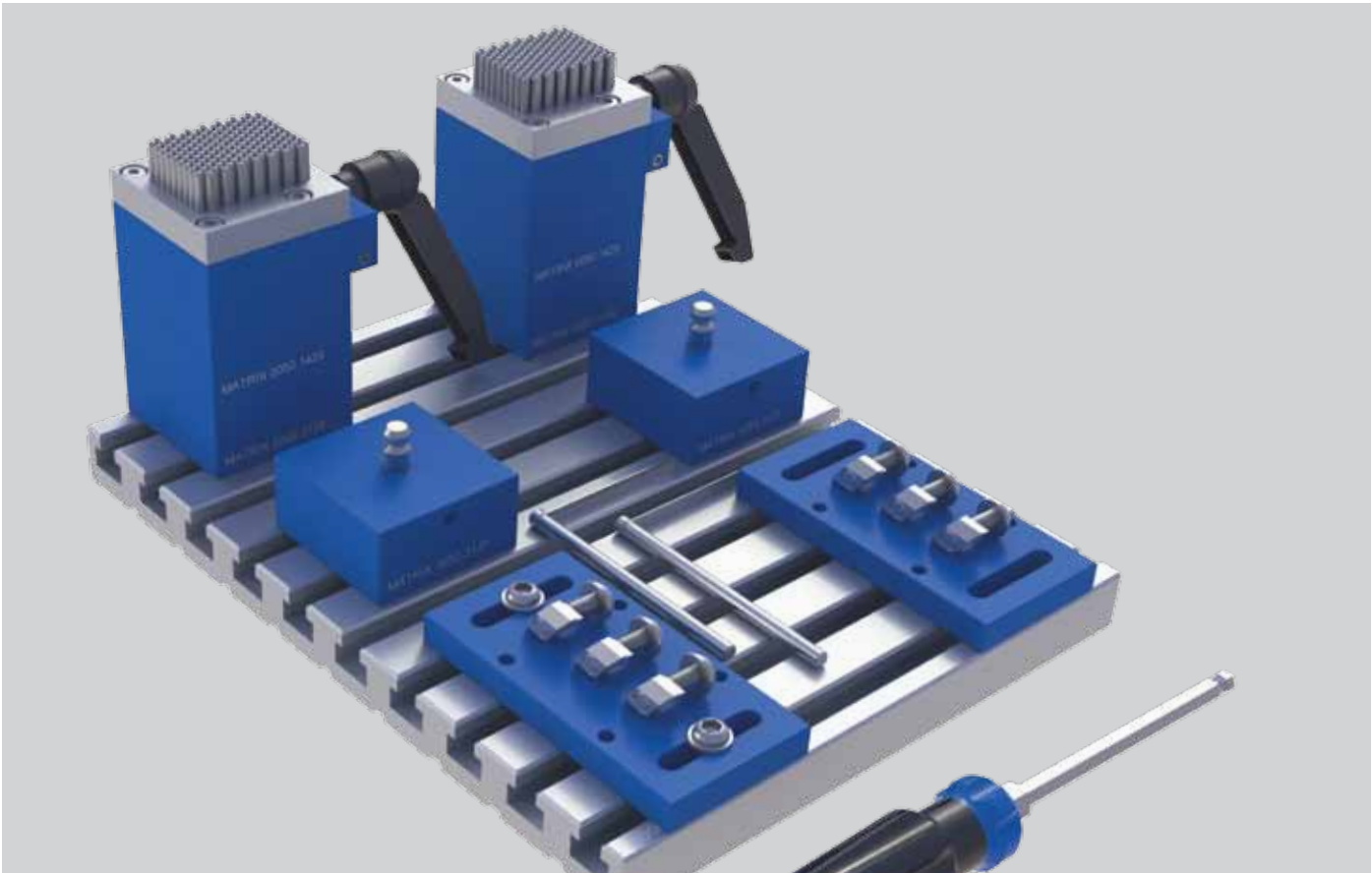






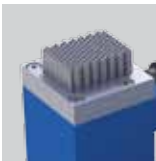
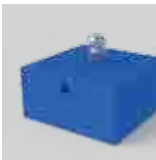

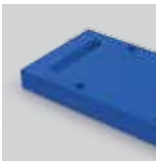





# X-SUPPORT XS    Order number: 0050.1424



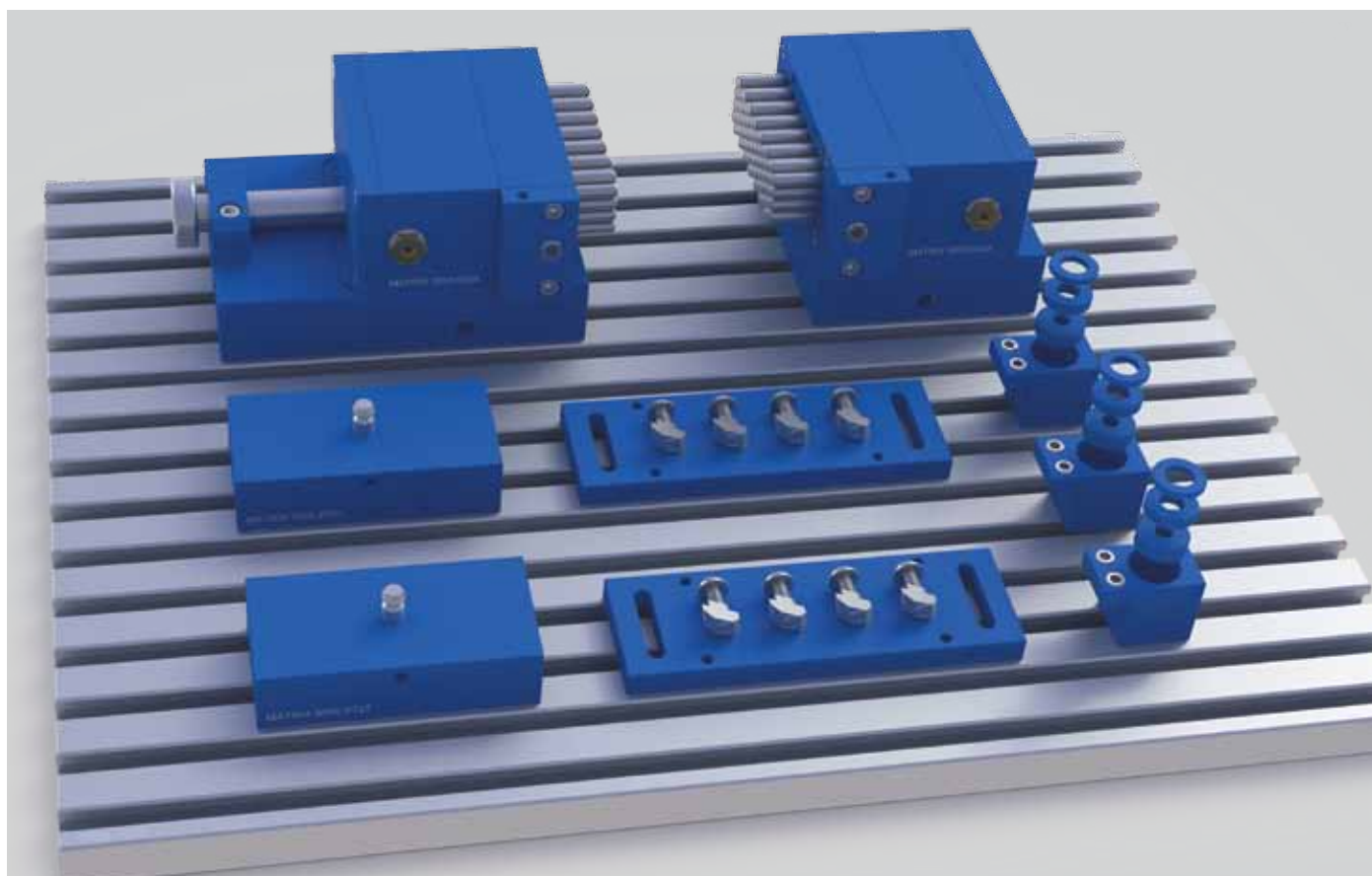
**X-SUPPORT XS** – As support specialist for consistently changing parts, X-SUPPORT XS has a proven track record in the advertising/promotional materials industry as well as in metrology.

The modular system consists of the following individual components:

Modules	Article no.	Quantity	Description	Size and information:			
	0050.1423	2 x	X-SUPPORT XS Modul	Dimension: 50 x 50 x 58 mm, Pin field: approx. 39 x 29 mm, Number of pins: 142 pieces, Pin diameter: 2,5 mm, Pin stroke: 12 mm			
	0050.3126	2 x	Connector	25 x 50 x 50 mm			
Components	Article no.	Quantity	Description	Components	Article no.	Quantity	Description
	0050.3127	2 x	Connector 25 x 50 x 50 mm		0050.1425	2 x	Pressure pad
	0050.3128	2 x	Base plate 10 x 50 x 100 mm		0900.2501	1 Set = 8 Pieces	Set of fastening parts
	0900.0200	1 x	T-slot profile plate Dimension: 250 x 200 x 20 mm Slot width: 8 mm		0900.0000	1 x	Screwdriver






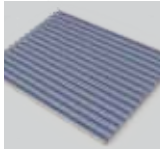




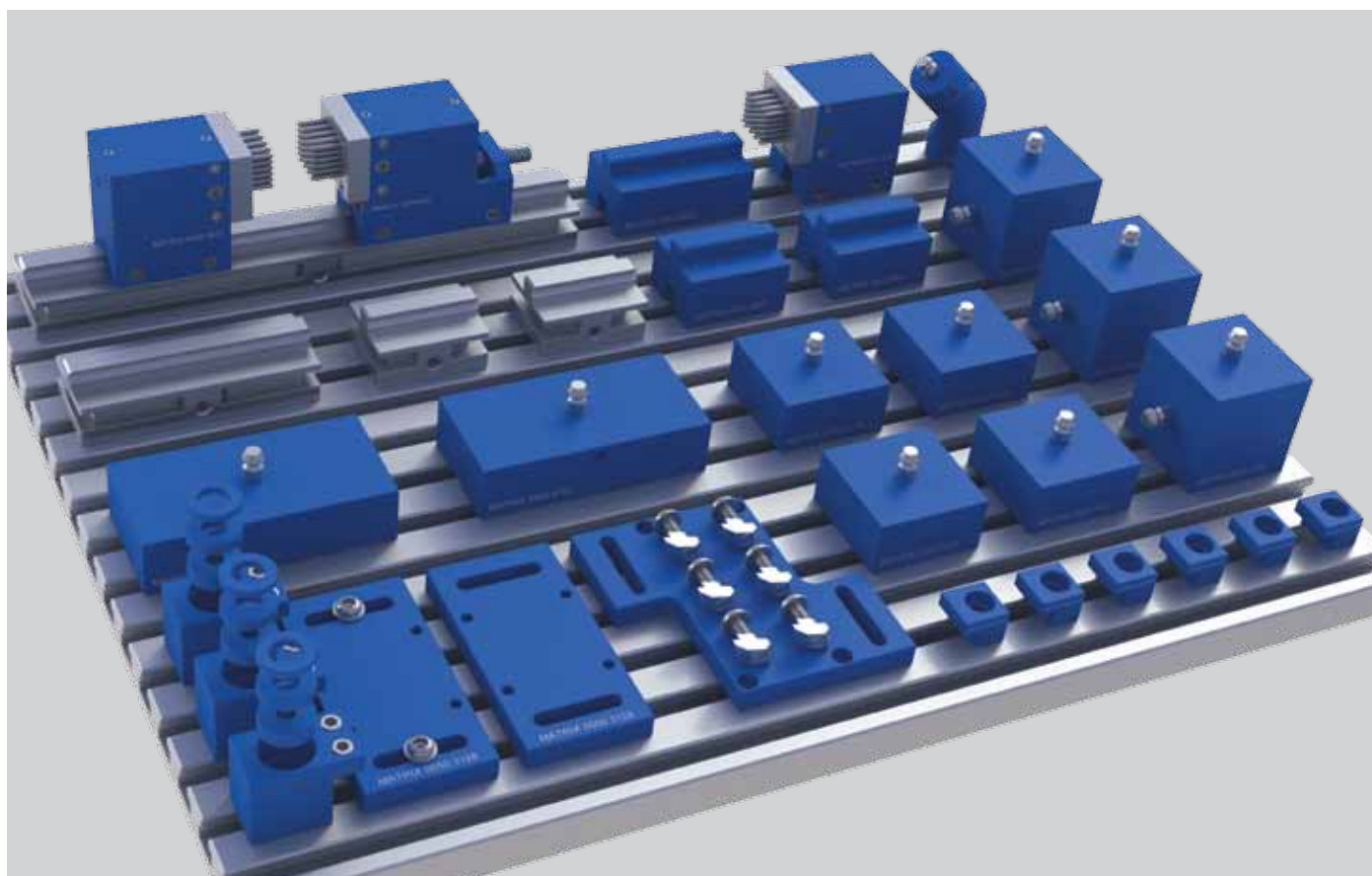




**X-GRIP XL** – The variable clamping width is a special feature of the X-GRIP XL. This is limited only by the length of the T-slot profile plate on which the two jaws can be moved in a stepless fashion.

The modular system consists of the following individual components:

Modules	Article no.	Quantity	Description	Size and information:			
	0050.6224	1 x	X-GRIP XL Modul fixed jaws	Dimension: 100 x 100 mm, Pin field: approx. 79 x 30 mm, Number of pins: 67 pieces, Pin diameter: 6 mm, Pin stroke: 21 mm			
			X-GRIP Modul movable jaws	Dimension: 150 x 100 mm, Pin field: approx. 79 x 30 mm, Number of pins: 67 pieces, Pin diameter: 6 mm, Pin stroke: 21 mm			
Components	Article no.	Quantity	Description	Components	Article no.	Quantity	Description
	0050.6727	2 x	Connector 25 x 50 x 100 mm		0900.0501	3 x	Gripper pads
	0050.7150	2 x	Base plate 10 x 50 x 150 mm		0900.2501	1 Set = 8 Pieces	Set of fastening parts
	0900.0500	1 x	T-slot profile plate Dimension: 375 x 500 x 20 mm Slot width: 8 mm		0900.0000	1 x	Screwdriver
					0900.3620	2 x	Bow-type handles



**X-GRIP XS** – Position your work piece exactly as you want it... With its stepless angle joint, the X-GRIP XS can be tilted up to 360° and brought into the optimum working position.

The modular system consists of the following individual components:

Modules	Article no.	Quantity	Description	Size and information:			
	0050.5812	1 x	X-GRIP XS modul set	Dimension: 38 x 250 mm, Number of pins per jaw: 58 pieces, Pin diameter: 2,5 mm, Pin stroke: 12 mm, Pin field: approx. 20 x 23 mm			
	0050.5816	1 x	Additional top jaws	Dimension: 38 x 250 mm, Number of pins per jaw: 58 pieces, Pin diameter: 2,5 mm, Pin stroke: 12 mm, Pin field: approx. 20 x 23 mm			
Components	Article no.	Quantity	Description	Components	Article no.	Quantity	Description
	0050.3127	2 x	Connector 25 x 50 x 50 mm		0050.6727	1 x	Connector 25 x 50 x 100 mm
	0050.3128	2 x	Base plate 10 x 50 x 100 mm		0050.6728	1 x	Base plate 10 x 100 x 100 mm



Components	Article no.	Quantity	Description	Components	Article no.	Quantity	Description
	0050.3125	2 x	Adapter 25 x 50 x 50 mm		0050.5867	1 x	Guide rail for movable jaws 100 mm
	0050.6725	1 x	Adapter 25 x 50 x 100 mm		0050.5831	2 x	Guide rail for fixed jaws 50 mm
	0050.3150	3 x	Joint 50 x 50 x 50 mm		0900.0502	6 x	Gripper pads
	0050.5826	1 Set = 3 Pieces	Adapter 2 x: 25 x 50 x 50 mm 1 x: 25 x 50 x 70 mm		0050.1230	1 x	Angle, infinitely variable ø 26 mm
	0900.0501	3 x	Gripper pads		0900.2501	1 Set = 8 Pieces	Set of fastening parts
	0900.0500	1 x	T-slot profile plate Dimension: 375 x 500 x 20 mm Slot width: 8 mm		0900.3620	2 x	Bow-type handles
	0900.0000	1 x	Screwdriver				







50.5812

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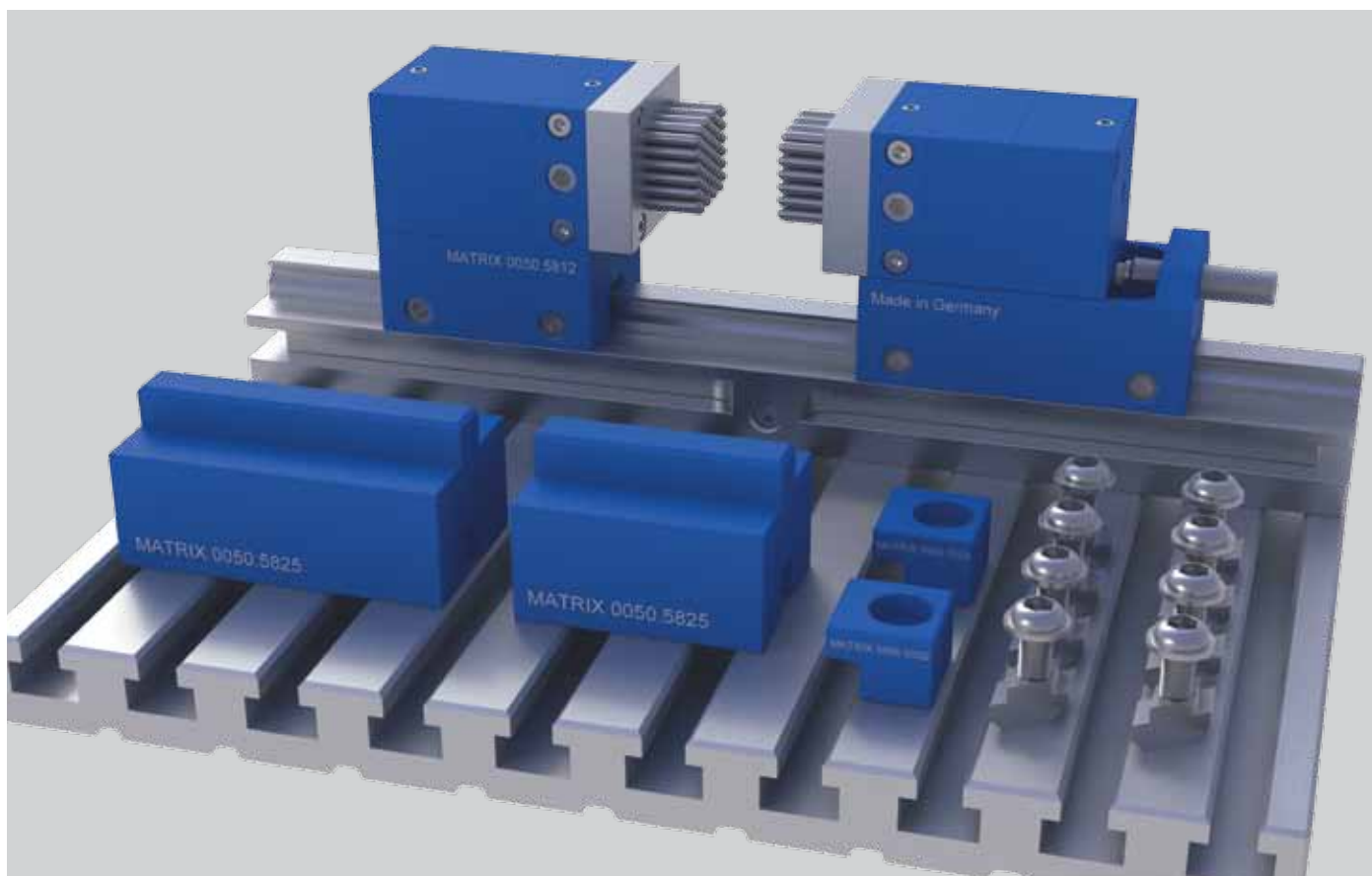
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MATRIX 0800.6727





**X-GRIP XS LIGHT** – Perfect stability even for smaller work pieces through optimum form fit. Due to its small footprint, the X-GRIP XS can be mounted even in small CMMs.

The modular system consists of the following individual components:

Modules	Article no.	Quantity	Description	Size and information:			
	0050.5812	1 x	X-GRIP XS modul set	Dimension: 38 x 250 mm, Number of pins per jaw: 58 pieces, Pin diameter: 2,5 mm, Pin stroke: 12 mm, Pin field: approx. 20 x 23 mm			

Components	Article no.	Quantity	Description	Components	Article no.	Quantity	Description
	0050.5825	1 Set = 2 Pieces	Adapters 25 x 50 x 50 mm + 25 x 50 x 70 mm		0900.0502	2 x	Gripper pads
	0900.2501	1 Set = 8 Pieces	Set of fastening parts		0900.0200	1 x	T-slot profile plate Dimension: 250 x 200 x 20 mm Slot width: 8 mm
	0900.0000	1 x	Screwdriver				



## BLUE CLAMP – Equipment and accessories

### Overview of the **MATRIX** profile systems:

**Ideal for car bodywork – the MATRIX systems in combination with aluminium profiles allow larger and more complex jigs and fixtures.**  
**Convenient: after use these jigs can be dismantled and stored more compact.**  
**This saves storage costs.**

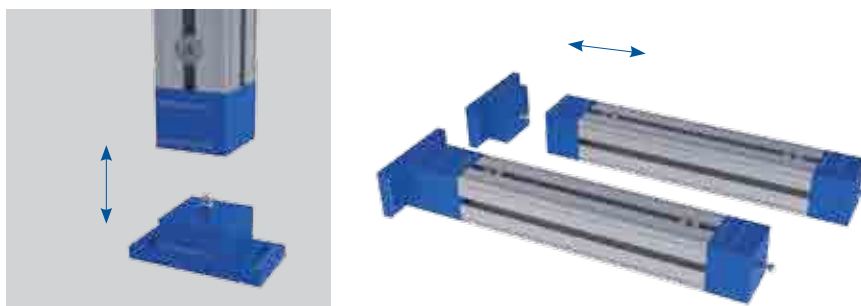
Your benefits:

- Very short assembly times
- Easy access during measuring
- Stepless adjustment with all MATRIX modules
- You can react to measurement orders quickly and flexibly with the MATRIX profile system, especially in car body and door production.

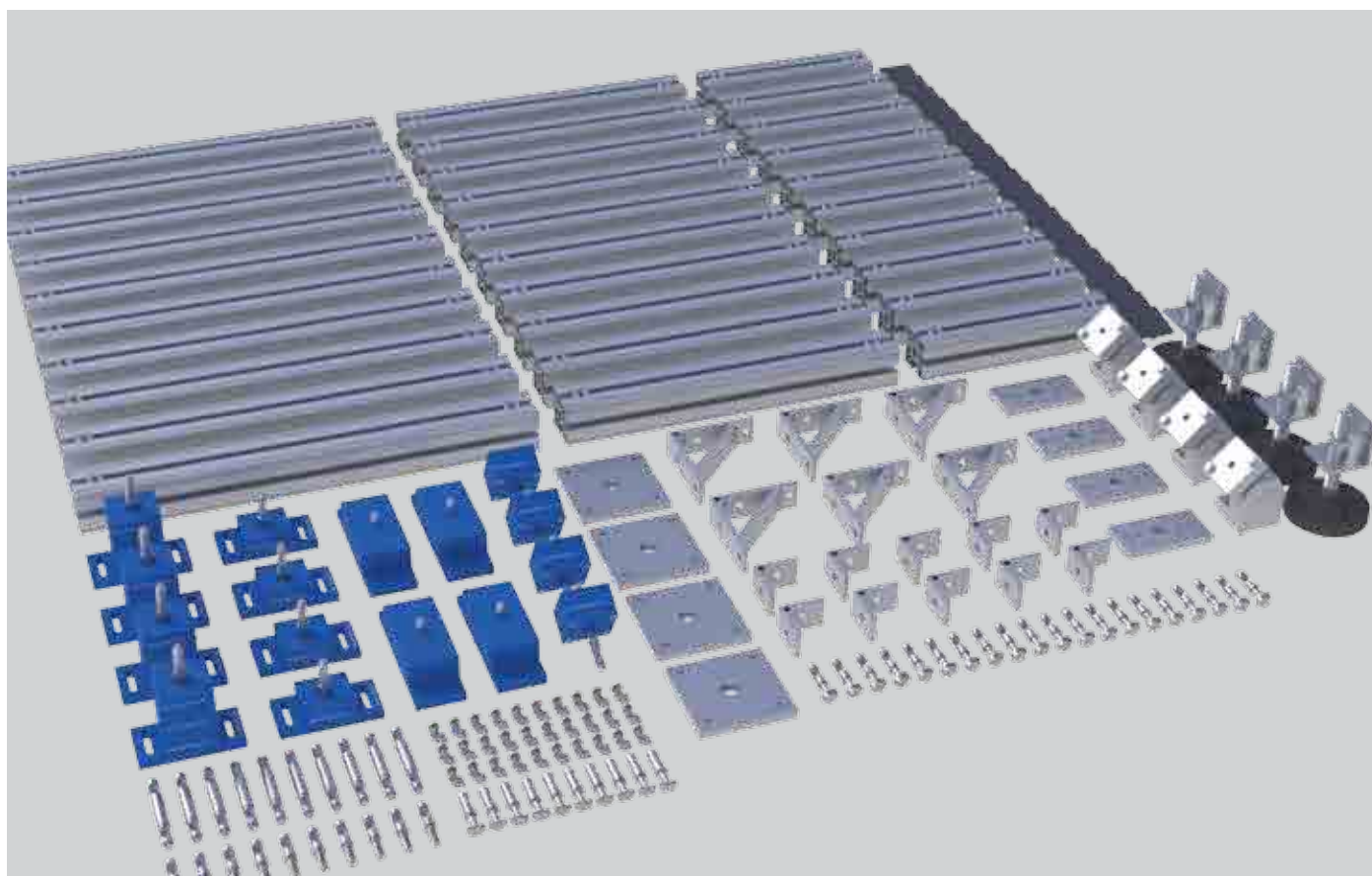
Proven profile systems  
from MATRIX:

- X-SUPPORT **PROFIL**      Page 36
- X-SHIFT                      Page 39
- X-TABLE                      Page 41

Both systems are fully compatible with the MATRIX BLUE CLAMP modular systems and their modules:



Proven MATRIX connections between the module and the profile systems allow very short set-up times.





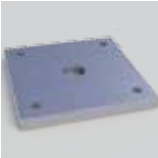







**X-SUPPORT PROFIL** – Especially in car body and door assembly, your metrology lab can react quickly to job orders when using the MATRIX profile system.

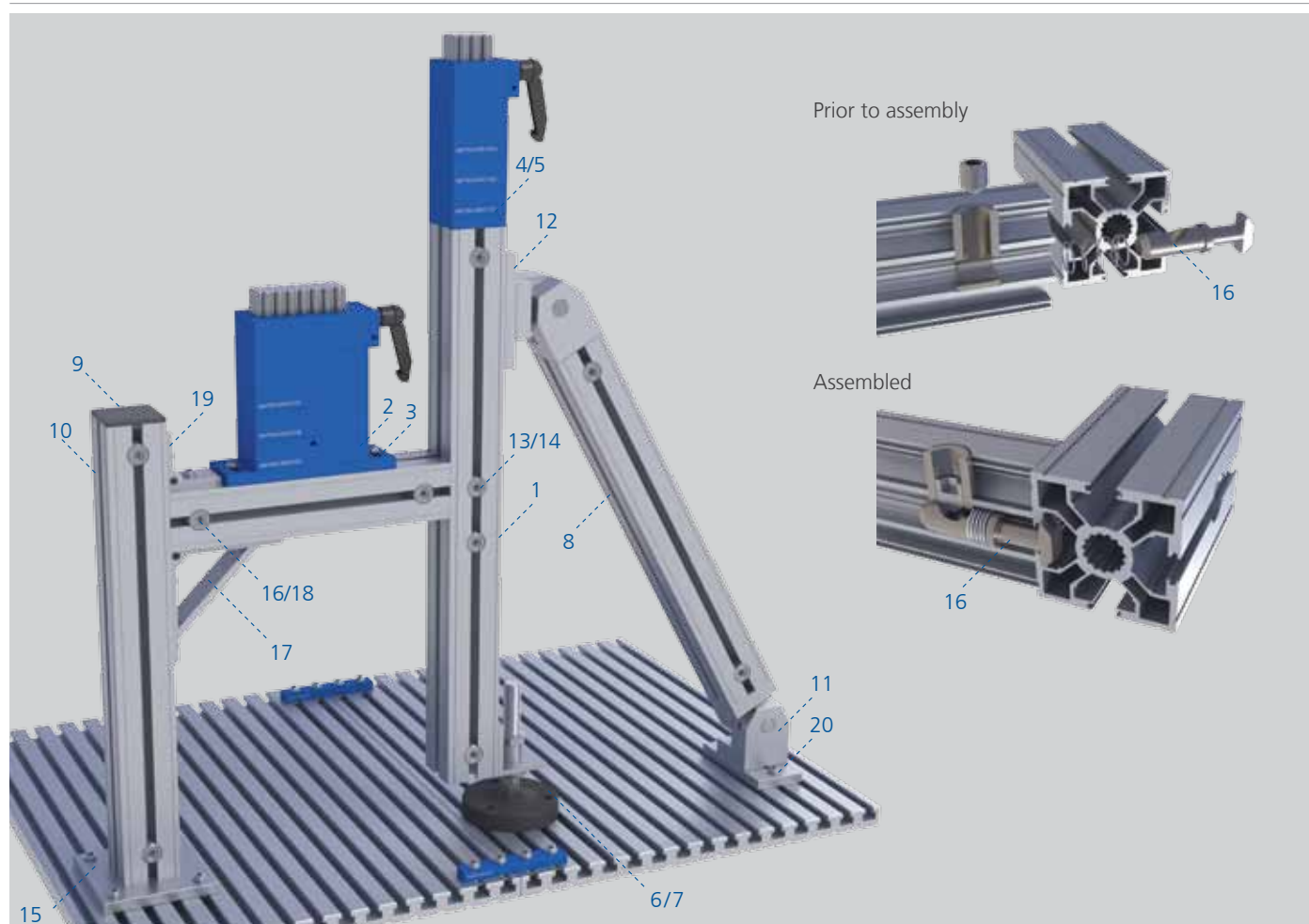
The modular system consists of the following individual components:

Components	Article no.	Quantity	Description	Components	Article no.	Quantity	Description
	0800.0250 <a href="#">Fig. 1</a>	10 x	Profile 50 x 50 x 250 mm		0800.0400 <a href="#">Fig. 8</a>	10 x	Profile 50 x 50 x 400 mm
	0800.0500 <a href="#">Fig. 10</a>	10 x	Profile 50 x 50 x 500 mm		0800.6702 <a href="#">Fig. 6</a> 0800.3526 <a href="#">Fig. 7</a>	4 x	Swivel pad including angle
	0050.6727 <a href="#">Fig. 2</a> 0050.7150 <a href="#">Fig. 3</a>	4 x	Plate with connector		0800.3127 0050.3126 0050.3127 0050.3128 0800.3517	4 x	Plate with connector, quick connectors
	0050.3127 <a href="#">Fig. 4</a> 0800.3128 <a href="#">Fig. 5</a> 0800.3517	4 x	Plate with connector modul		0800.3127 0050.3128 0800.3517	4 x	Plate with connector profile

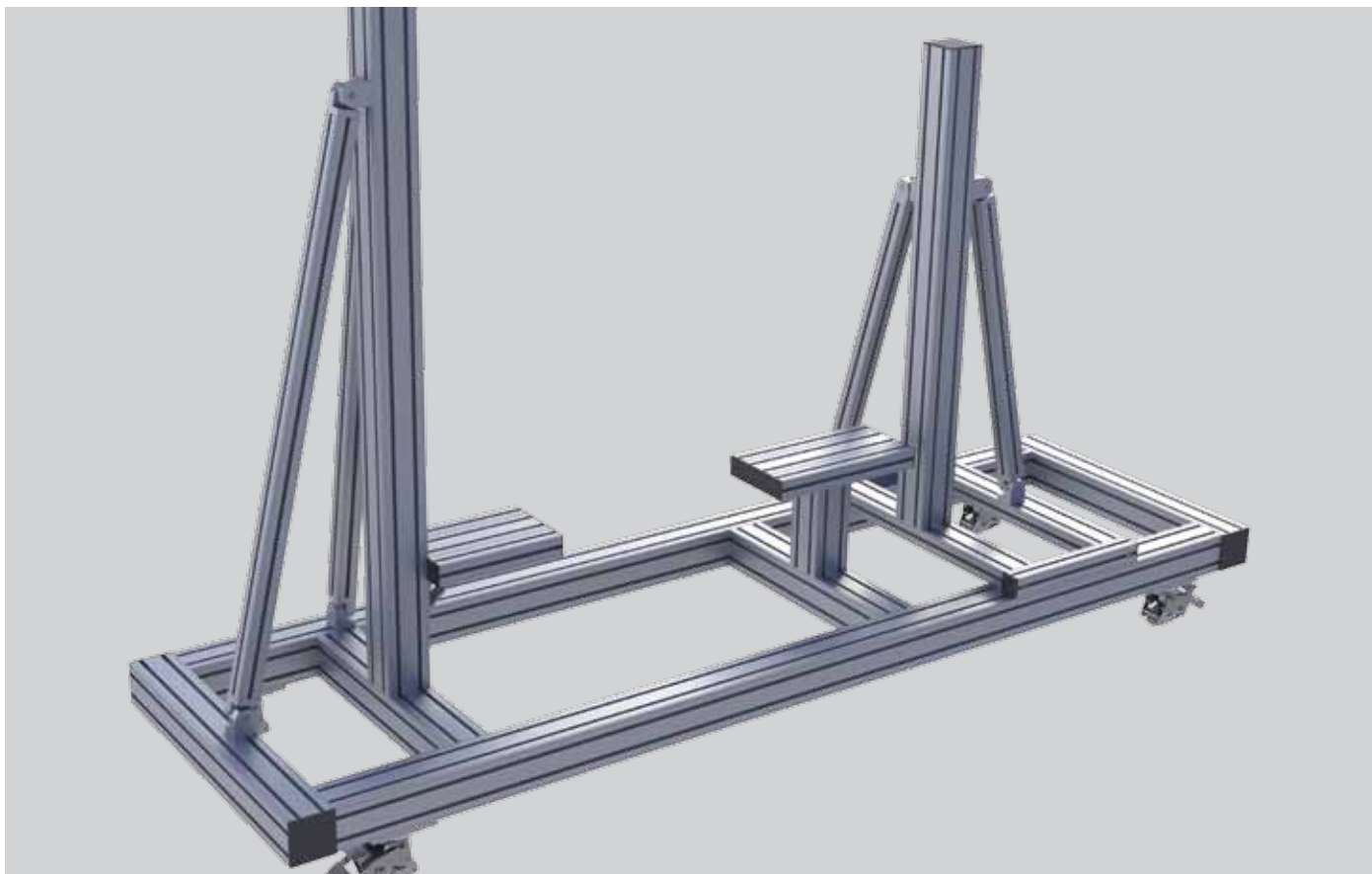


Components	Article no.	Quantity	Description	Components	Article no.	Quantity	Description
	0800.3566 <a href="#">Fig. 9</a>	20 x	Cover cap 50 x 50 mm		0800.3701 <a href="#">Fig. 11</a>	4 x	Joint stepless $\pm 90^\circ$
	0800.3714 <a href="#">Fig. 12</a>	4 x	Base plate joint		0800.3510 <a href="#">Fig. 13</a> 0800.3519 <a href="#">Fig. 14</a>	10 x	Extension + connector
	0800.3646 <a href="#">Fig. 15</a>	4 x	Base plate profile		0800.3517 <a href="#">Fig. 16</a>	20 x	Round-head connector
	0800.3597 <a href="#">Fig. 17</a>	6 x	Angle large 100 x 100 x 30 mm		0800.3501 <a href="#">Fig. 18</a>	10 x	Threaded connector
	0800.3594 <a href="#">Fig. 19</a>	10 x	Angle small 48 x 48 x 30 mm		0900.2554 <a href="#">Fig. 20</a>	54 x	Fastening kit 24 x pre-assembled

#### Application example







## MATRIX X-SHIFT Profile System

**In frame-and-body construction the X-SHIFT profile system is used to hold large parts in position to measure back panel flaps, bonnets or side panels.**

The distance between the two upright elements can be adjusted to the various work

piece sizes by sliding **1** the carriage in the appropriate position. The high-strength aluminum profiles are supplemented with MATRIX X-SUPPORT components **2** from the BLUE CLAMP series. The dimensions of the X-SHIFT: 2700 x 800 x 1850 mm.

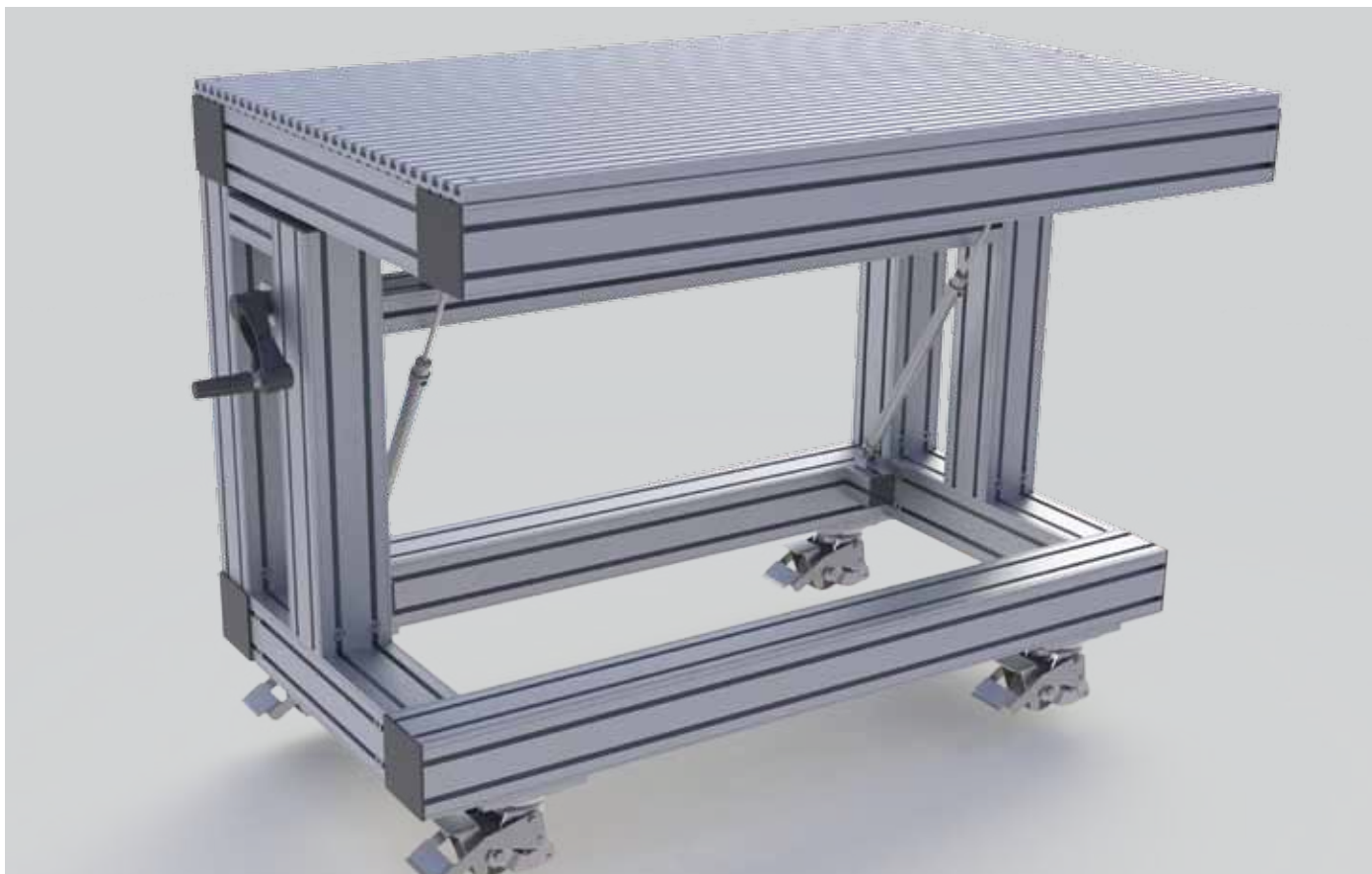








# X-TABLE Order number: 0400.1200 or 0400.1500



## MATRIX X-TABLE Profile System

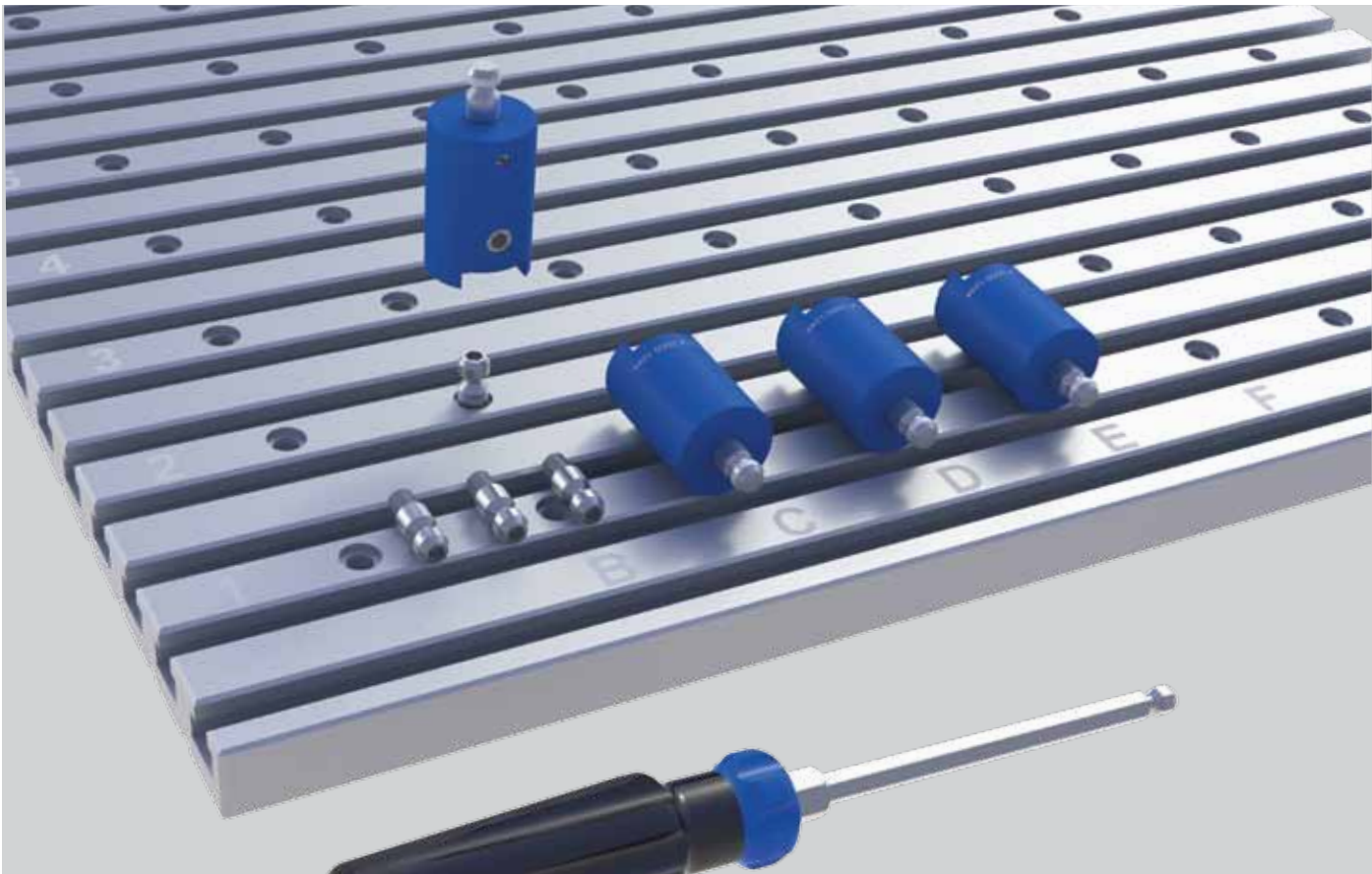
**The X-TABLE is a roller table that is matched to the BLUE CLAMP series and its angle of incline can be variably adjusted.**

It is available in two sizes:  
1200 x 750 mm H 910 mm  
1500 x 750 mm H 910 mm

The table can be set up comfortably in horizontal position and then inclined for an optimum measuring position (vehicle position **1** and **2**). Lifting rollers are used to lift the table from the leveling feet and move it easily.



# X-GRID    Order number: 0900.0510





The **X-GRID** plate is the perfect combination of grid and T-slot support. The parts can be set up in a reproducible manner without sacrificing slot flexibility.

The modular system consists of the following individual components:

Components	Article no.	Quantity	Description	Components	Article no.	Quantity	Description
	0050.1244	4 x	Connector 40 x ø 26 mm		0050.1245	4 x	Connection pin
	0900.0000	1 x	Screwdriver		0900.0505	1 x	Base plate: 375 x 500 x 20 mm, Slot width: 8 mm Grid width: 50 x 50 mm Thread insert: M6 With 63 positions

## X-SUPPORT OPTIONAL

Add-ons (to be ordered separately)

	0900.9219	Magnetic base Holding force ~ 700N 55 x 50 x 75 mm		0700.5001	Adapter ø 12 mm for hole-matrix jigs
				0700.5002	Adapter ø 20 mm for hole-matrix jigs







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EATON

MATRIX 0050.5812

MATRIX 0050.5825

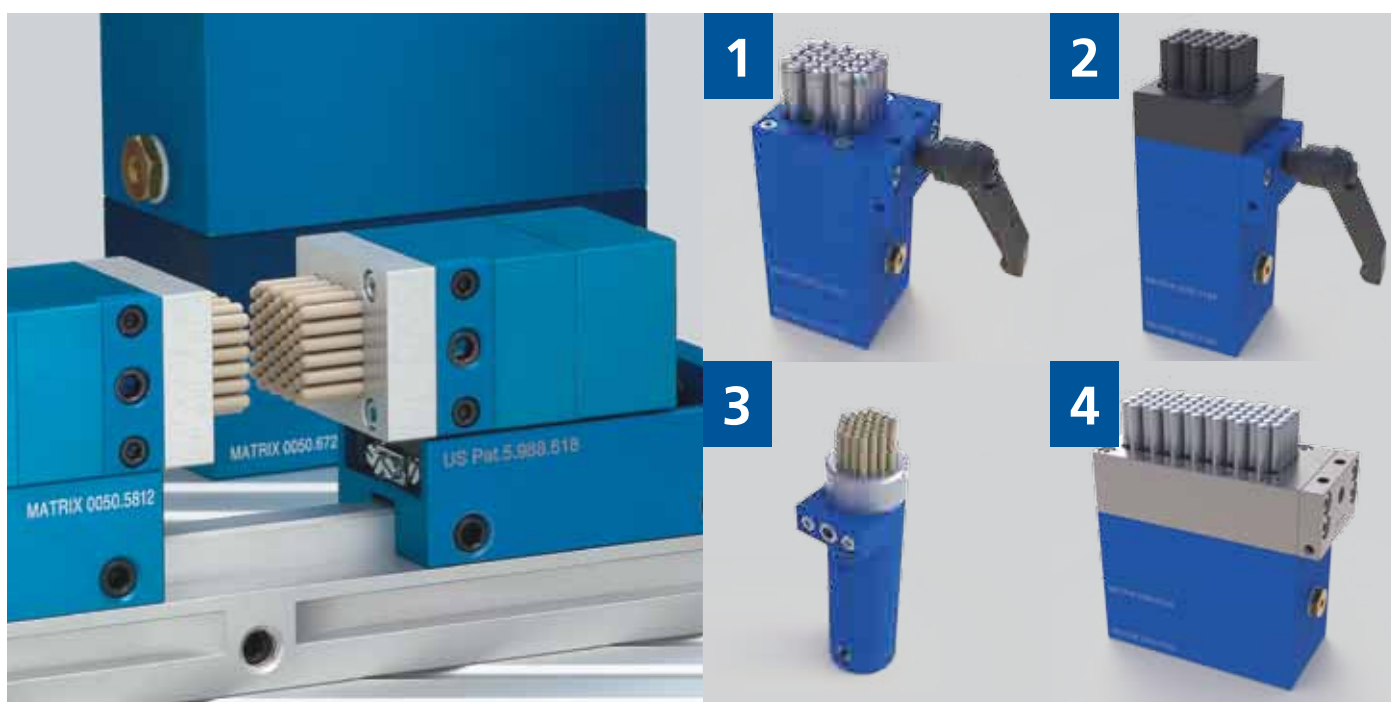


## MATRIX pin variants

### Perfect molding of the work piece

For the MATRIX BLUE CLAMP product series, simple operation and handling of the work piece are key aspects, however, the option of use in customized solutions that adapt to the size and surface properties of the work pieces was squarely kept in view. Special pin types have been designed for unusual applications. Every requirement for individual and industry-specific requirements can be met.

For use in CT analyses, the pins of the BLUE CLAMP system are also available in plastic (2+3) of high quality PEEK. As a result, the system is pervious to radiation, non-ageing and compatible. In cases of very sensitive parts (painted surfaces), the variant with plastic pins (1) has proven to be very effective as well. For use of the BLUE CLAMP series in very robust assembly work, specially manufactured variants of high-strength steel (4) are used.



## More MATRIX

### One system for all applications

#### 1 MATRIX MINI CLAMP systems:

ideal for fine mechanics and micro-electronics.

The range of applications of the BLUE CLAMP series has been widened by the MINI CLAMP modular system. Filigree small parts used in micromechanics and microelectronics, in particular, can be precisely formed in a blink of an eye. Work that previously required lengthy milled or otherwise contoured supports, can now be completed in a matter of seconds.

For more information refer to our MINI Clamp brochure or go to:

[www.matrix-innovations.com/mini-clamp](http://www.matrix-innovations.com/mini-clamp)

#### 2 MATRIX SILVER CLAMP systems:

ideal when high levels of stress are involved.

The sturdy MATRIX SILVER CLAMP series is the right option for machining technology. These series allow you to work and machine differently shaped parts and parts with complicated geometries. These systems are used primarily in the rework stage in additive manufacturing and in classic prototype engineering.

For more information refer to our SILVER CLAMP brochure or go to:

[www.matrix-innovations.com/silver-clamp](http://www.matrix-innovations.com/silver-clamp)

## MATRIX interfaces

### Versatile – also for third-party systems

**MATRIX systems are not only strong as an adaptable fixture, but can also be used as support and connection elements in combination with existing jigs – a simple and economical add-on.**

Simple handling. Always compatible. Different assemblies for work pieces of various shapes and sizes can be assembled with all MATRIX systems. Simply and quickly, using only a single tool.



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