

siegmund®

WELDING - AND CLAMPING TABLES



System 16



SYSTEM 16	Basic	Professional	Professional Extreme
Hole Ø	16 mm	16 mm	16 mm
Bore spacing	50 mm	50 mm	50 mm
Grid spacing	50 mm	50 mm	50 mm
Table side depth	50 mm	100 mm	100 mm
Material thickness	12 mm	12 mm	12 mm
Material	Steel St 52/3	Steel St 52/3 plasma-nitrided	Double hardened and coated

System 28



SYSTEM 28	Basic	Cast-Iron table	T-slot table	Professional	Professional Extreme
Hole Ø	28 mm	28 mm	28 mm	28 mm	28 mm
Bore spacing	100 mm	100 mm	100 mm	100 mm	100 mm
Grid spacing	100 mm	100 mm	100 mm	100 mm	100 mm
Table side depth	-	200 mm	200 mm	200 mm	200 mm
Material thickness	25 mm	25 mm	side: 25 mm surface: 37 mm	25 mm	25 mm
Material	Steel St 52/3	GGG40	Steel St 52/3 plasma-nitrided	Steel St 52/3 plasma-nitrided	Double hardened and coated



	Professional Extreme 700-850 Vickers	Professional Hardened and coated 480-560 Vickers	Steel EN S355J2+N (not nitrated)	Cast-Iron GG25	HARDOX 400	Stainless Steel
Rust resistance	★★★★★★	★★★★★★	★	★	★★	★★★★★★
Point load resilience	★★★★★★	★★★★	★★★	★★	★★★★★★	★★★★
Protection against scratches	★★★★★★	★★★★	★★	★	★★★★	★★★★
Impact resistance	★★★★★★	★★★	★★	★	★★★★	★★★★
Lifetime	★★★★★★	★★★★	★★	★★★	★★★★	★★★★
Levelness	new ★★★★★	★★★★★	★★★★★★	★★★★★★	★★★★★	★★★★★
	heavily used ★★★★★	★★★★	★★	★★★	★★★	★★★
Price-performance ratio	★★★★★★	★★★★	★★	★	★★★	★★
Protection against welding spatters	★★★★★★	★★★★★★	★	★★★★	★★	★★
Result	58 / 63	43 / 63	21 / 63	23 / 63	34 / 63	33 / 63

This rating was made by Siegmund.



DOUBLE HARDENED AND COATED

Tool Steel

- extremely resistant tool steel for extremely high loading
- constant surface area quality
- high resistance against impact effects
- significantly harder and more resistant than conventional steel EN S355J2+N (ST 52/3)



Plasma nitration

- additional surface hardening
- more scratch and rust resistant surface
- much less adhesion of welding spatters
- less maintenance, thereby possibility of change over

= Professional Extreme with a hardness of 700 Vickers



PLASMANITRIDING

The plasma-nitrided surface by Siegmund is still unsurpassed. You should not be satisfied with less. The thermochemical method of plasmanitriding leads to surfaces which are more wear-free, more rust resistant and longer-lived. The plasmanitriding process is one of the most ecological hardening processes available as only nitrogen, hydrogen and oxygen are used. These gases are the main constituents of our air.

Due to the long life, the plasma-nitrided surface is always a worthwhile investment! The tension force of the clamping bolts is increased. Simultaneously the loading capacity of the table increases by 20-30%.



STEEL / CAST IRON

Steel raw material:
Material number 1.0570
Steel grade DIN ST52-3 N
Steel grade EN S355J2+N
EN-Norm 10025

Cast Iron raw material:
GGG40

Application area:

Applicable for all heavy constructions in the metal manufacturing industry.



HARDOX*

Bernd Siegmund GmbH is the only manufacturer to offer a table made of the extremely resilient HARDOX specialized steel. A 25 mm thick HARDOX slab as a table top is frequently used for applications in which the table is exposed to extremely high loads.

HARDOX special steel excels because of its extraordinary flatness, with even surface quality and high resistance under the effects of impacts.

HARDOX steel is considerably harder and more resistant than normal steel.

*HARDOX is a registered trademark of SSAB steel from Sweden.



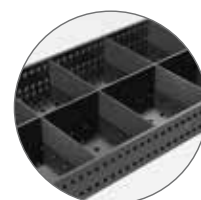
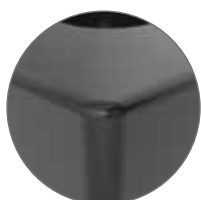
STAINLESS STEEL

Stainless steel tables of DIN 1.4301 quality are frequently used in industry.

In the stainless steel version the surface and the table sides are manufactured from stainless steel.

The ribbing and the table leg plates are produced out of normal carbon steel. On demand we offer these parts also in stainless steel.

In the stainless steel light version the material thickness is reduced from 25 mm to 15 mm to reduce cost. The missing material thickness can be compensated for by using a 10 mm spacer with the clamping bolts.



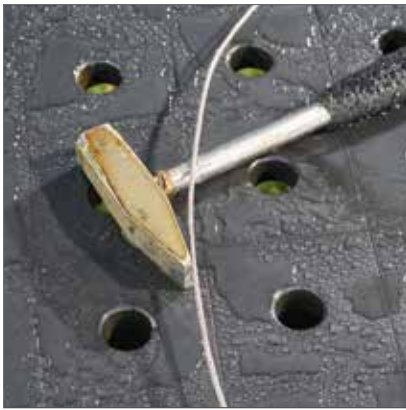
Surface	Table side	Table legs	Bore holes	Ribbing
<ul style="list-style-type: none"> · minor maintenance · better surface planarity after years in use · advantages at surface sensitive parts like stainless steel etc. <p>Hardness:</p> <p>Table plate Surface 700 Vickers Substrate 400 Vickers</p> <p>Table side Surface 500 Vickers Substrate 220 Vickers</p>	<ul style="list-style-type: none"> · additional bore holes offer parallel clamping in a 50 mm grid (System 16: 25 mm) · radii of 3 mm at the upper table edges decreases risk of damaging table and tools · radii of 6 mm at the corners reduces risk of injury · the lesser used table sides are still produced out of EN S355J2+N (ST 52/3) whilst reducing cost 	<ul style="list-style-type: none"> · 90x90 mm box section (System 16: 70x70 mm) · Ø 90 mm sq base plate for perfect weight distribution (System 16: Ø 70 mm) · table leg adjustable to a height of 50 mm (System 16: 40 mm) 	<ul style="list-style-type: none"> · Radii of 3 mm at the bore holes (System 16: 2 mm): · easier insertion of bolts and accessories (creating faster and easier working) · even less adhesion of welding spatters at the edges of the bore holes (meaning less maintenance) · less damage at the edges of the bore holes while moving heavy parts 	<ul style="list-style-type: none"> · More ribbing on the underside for even more stability: · at all table sizes · with a spacing of 500 mm · higher ribbing (The ribs of system 16 are not altered).

QUALITY CHARACTERISTICS:



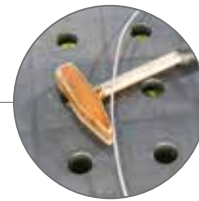
SCRATCHES

High resistance against effects of impact.



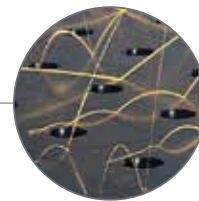
RUST

More rust resistant surface.



WELDING SPATTERS

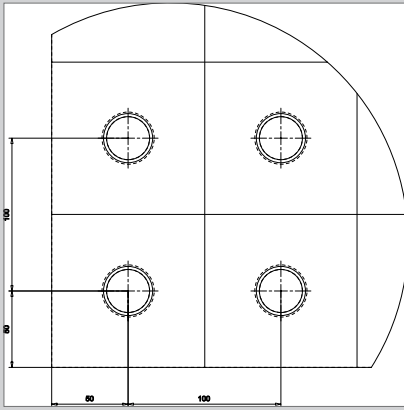
Much less adhesion of welding spatters.



EXTREME HIGH LOADING

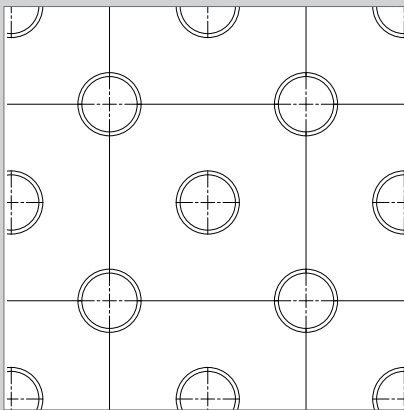
Extremely resistant steel for extremely high loading.





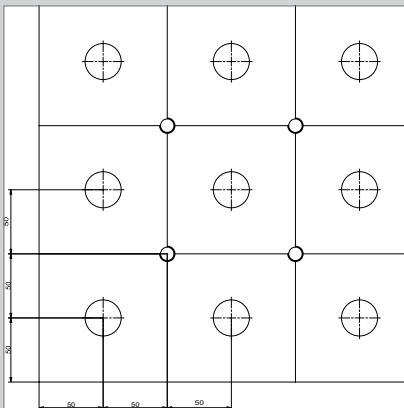
50 MM / 100 MM GRID

The 50 mm / 100 mm bore holes and grid lines are the most common concerning welding and clamping tables. The oblong slots of the accessories are perfectly matched on the system.



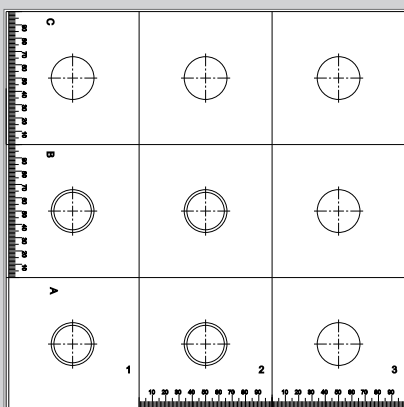
DIAGONAL GRID - SYSTEM 28

Diagonal grid with 50% more bore holes offers even more clamping possibilities. Use the higher flexibility for more creativity.



100 MM GRID WITH M8, M12 OR M16 THREAD - SYSTEM 28

A special grid with threaded bore holes allows you to work with your individual tools and appliances.

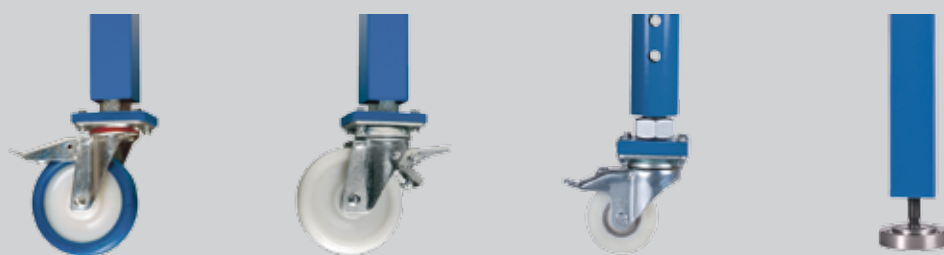


SCALE

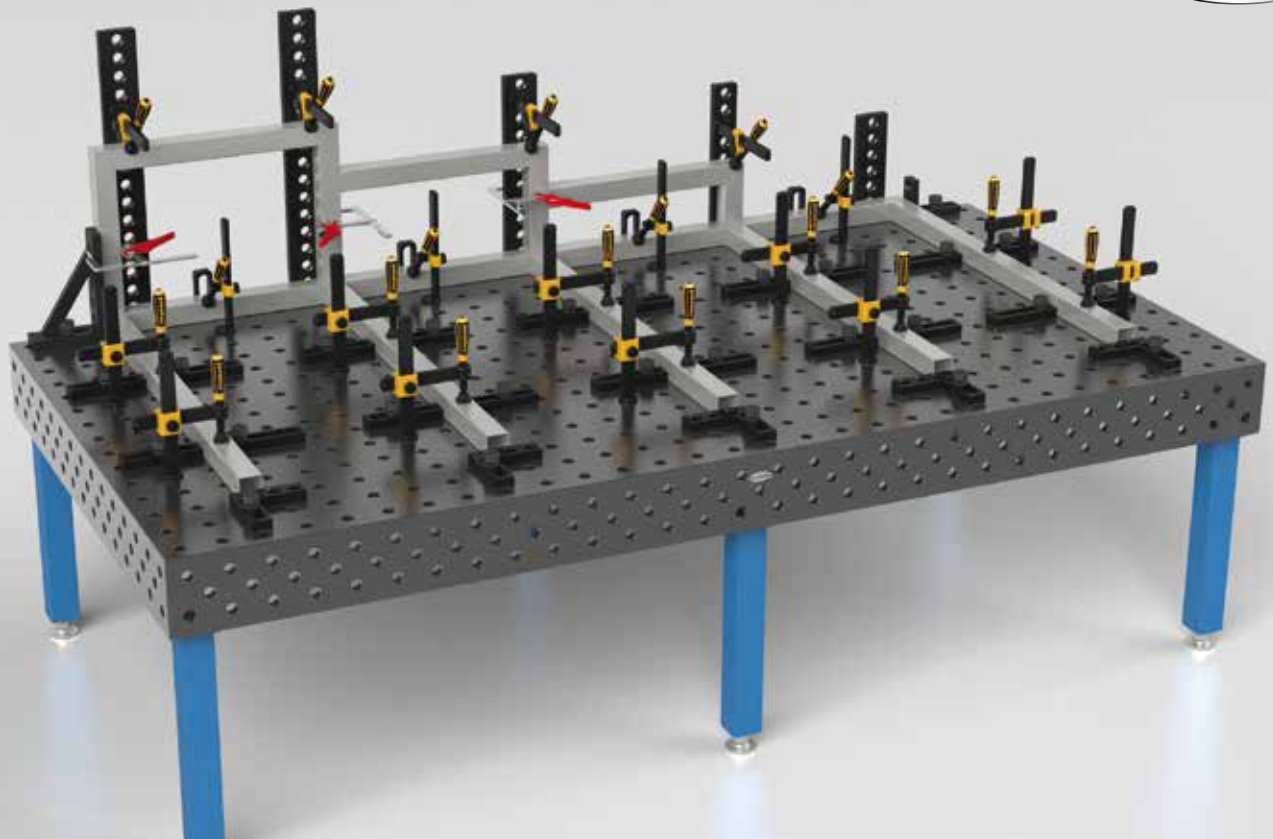
Four-sided circular scale conserves time at clamping and setting.



	Leg Extreme basic equipment	Leg Extreme with castor	Leg basic equipment	Leg height adjustable
Working height	850 mm	850 mm	850 mm	650-950 mm 750-1150 mm
Linear adjustment	50 mm	30 mm	50 mm	50 mm
Load-carrying capacity	5.000 kg	1.000 kg	1.000 kg	1.000 kg
Application area	Stable position with high load capacity	Flexible position and high load capacity	Stable position	Height adjustable



	Leg with castor	Leg with heavy-duty castor	Leg height adjustable with castor	Leg with floor anchoring
Working height	850 mm	850 mm	750-950 mm	850 mm
Linear adjustment	30 mm	30 mm	25 mm	50 mm
Load-carrying capacity	600kg	1.000 kg	700 kg	1.000 kg
Application area	Flexible position	Flexible position and higher load capacity	Height adjustable and flexible	Permanent stable position

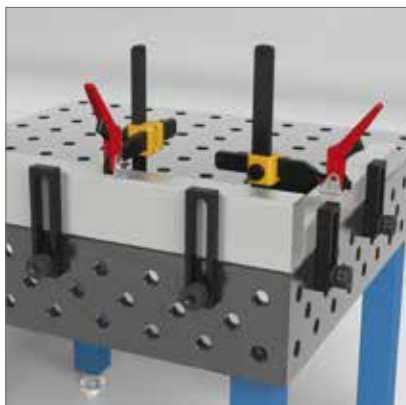
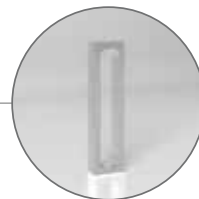


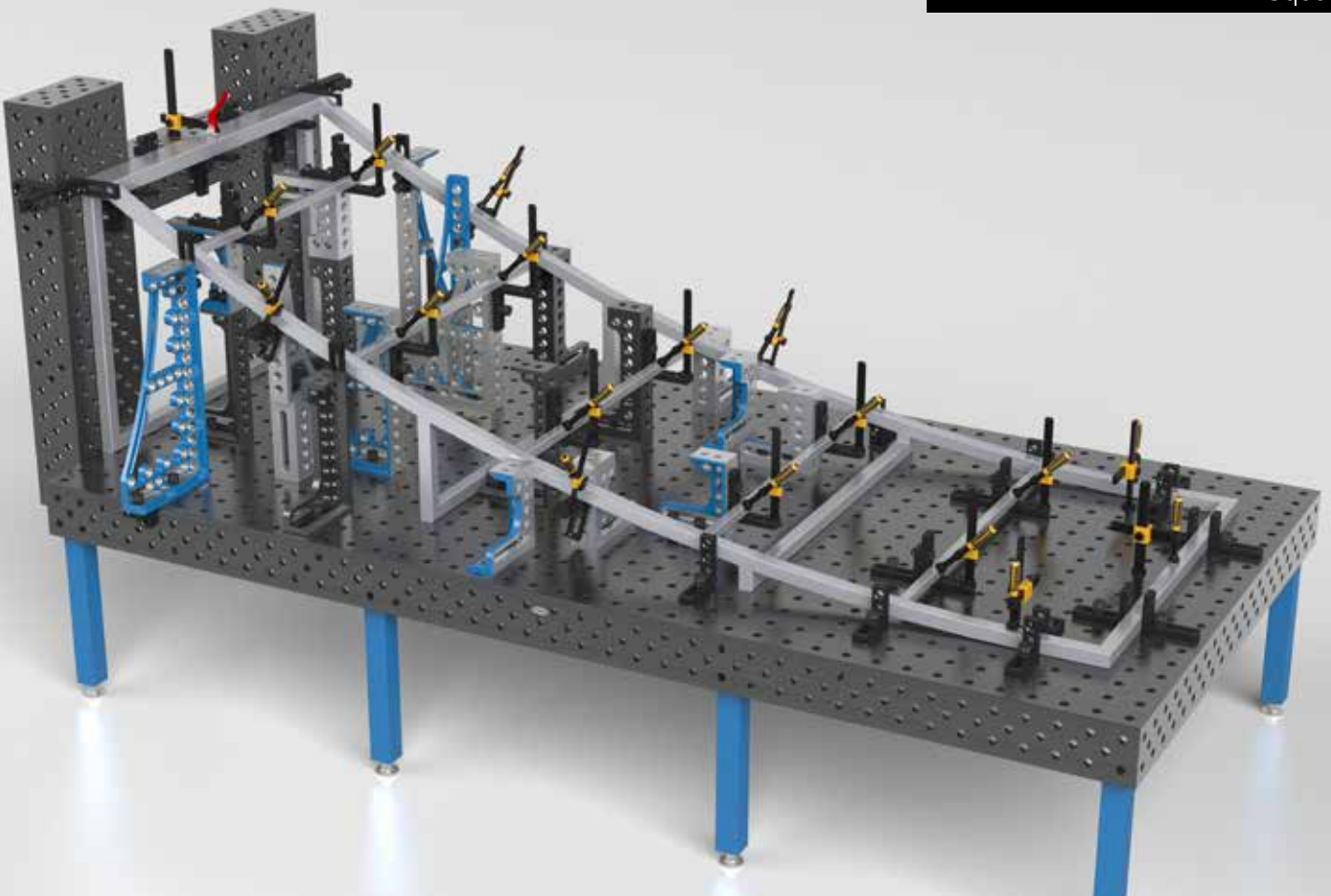
General information: Stops can be firmly fixed or variably adjusted as a result of the combination of oblong slot and system bore holes. Perfect for all flat clamping on the welding table.



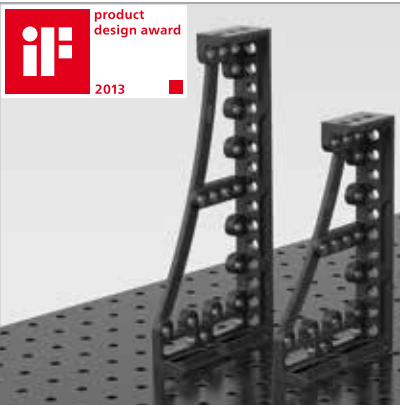
FLEXIBLE AS YOU NEED

In addition, it is suitable for the use with blocks/prisms and adapters. Available in an aluminium version for work with stainless steel, like balustrade building. Also available in a chromed version for work on surveyor's tables, work with aluminium, WIG-welding and easy clamping requirements.





General information: Squares are available in nearly all sizes. Squares are adjustable squares which can versatily be used with the combination of the system bore holes and the oblong hole. A height-adjustable surface for your welding elements can be created when combining the Stop and Clamping Square with other squares.



product design award 2013

CAST SQUARES PLASMANITRIDED

Our plasmanitrided cast squares are weight-optimized because of additional cut-outs

The improved shape of the plasmanitrided cast squares offers you more comfort in handling

These cast squares possess all the advantages of the plasmanitrided surface: More scratch resistant and rust resistant surface, much more protection against welding spatters, less maintenance, with up to 3 x longer product life



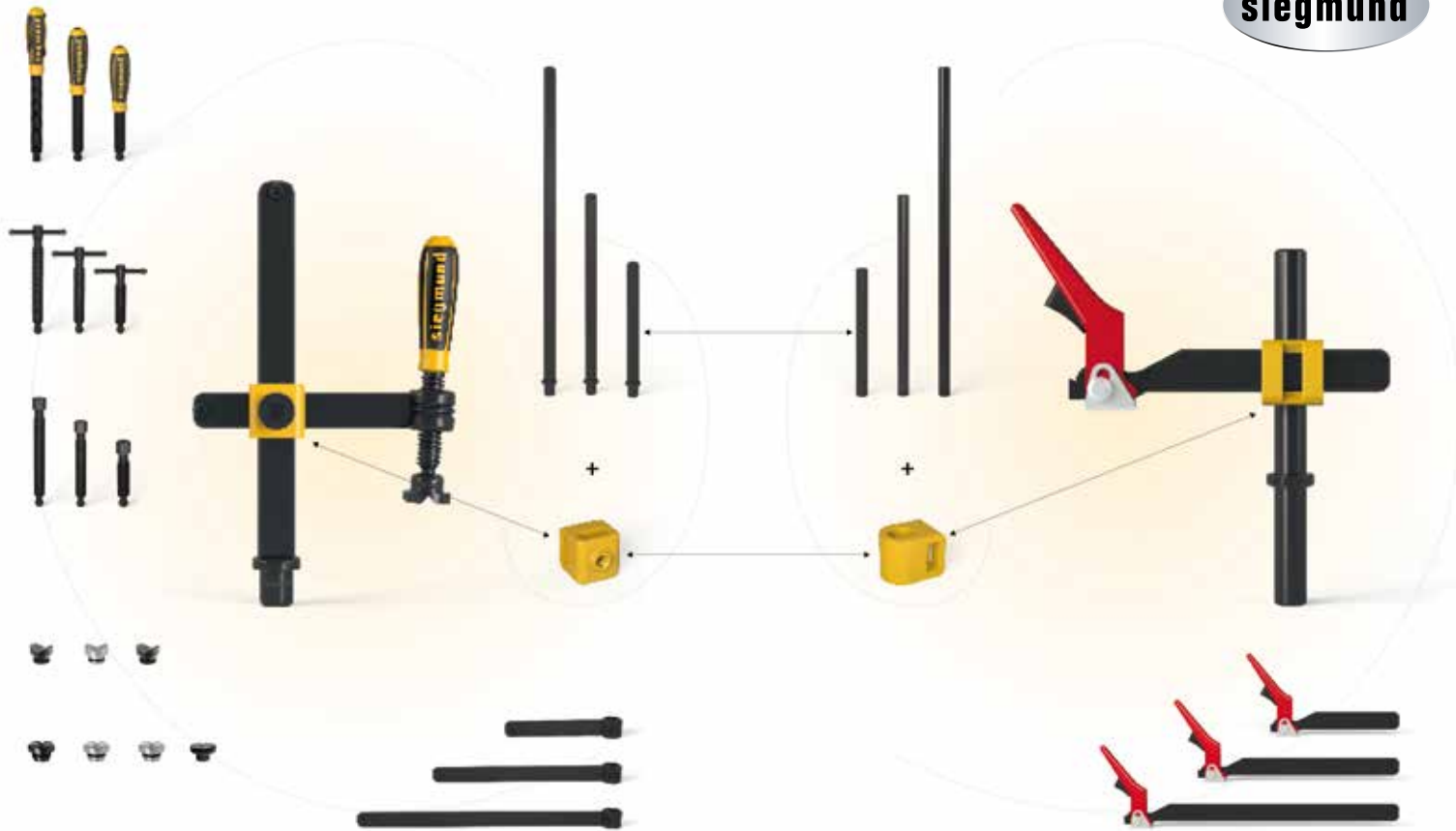
reddot design award winner 2012

ALUMINIUM-TITANIUM SQUARES

The weight of our new Aluminium-Titanium Squares is reduced by 60% compared to Cast Squares

The material employed and additional bars give these squares greater strength



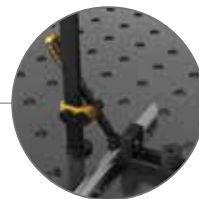


General information: The clamps are the tools that offer fast, powerful and exact clamping even with the most varied welding parts. Effectiveness is achieved by time-saving, quick adjustments and easy removal. A long life is guaranteed by the burnished material, as well as the availability of spare parts.



MAXIMUM CLAMPING FORCE - WITH ONLY ONE HAND

The one-hand screw clamp from Siegmund gets its name because you can do exactly that with one hand. With the other hand you can position your work piece. There's nothing easier and more efficient than that.



- The flat bars can be positioned and clamped precisely in the channel with only one hand. Thus the fixing of the workpiece is extremely easy
- High clamping force due to short overhangs
- The height can be adjusted with the balance wheel extremely quickly. In the open position the screw clamp can be switched in height and depth at the same time

- All screw clamps from system 28 can be tightened with the key that's integral to the handhold
- The spindle (incl. insert nut) can be inserted in every 28 mm bore hole. The blocks/prisms can be changed quickly and simply. The horizontal bars and vertical bars are available in many different types
- Due to the modular system you can compose your own screw clamps according to your individual needs



General information: The burnished clamping bolts with turnlock fastener are the ideal connecting element between the Siegmund subassemblies. The fast clamping bolts is characterised by especially large balls, which protect the chamfer in the bore holes as a result of very light surface pressure.



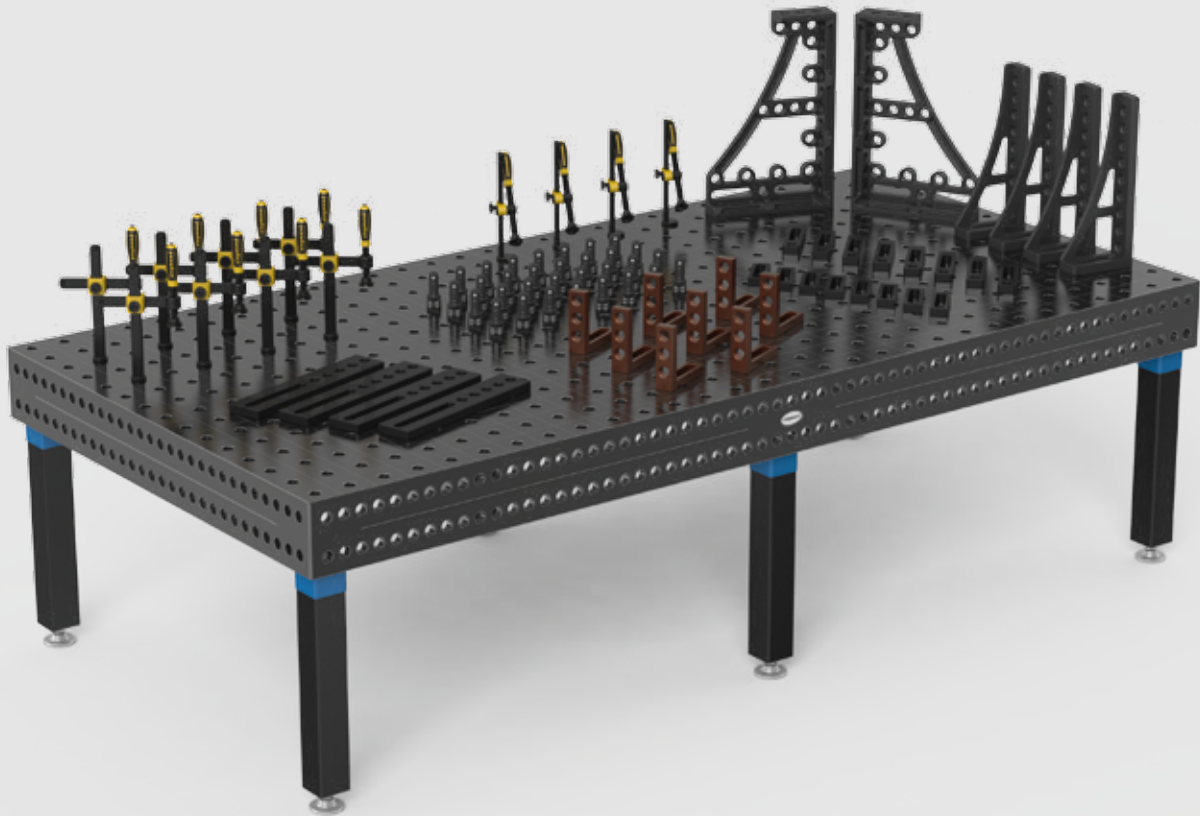
POWERFUL AND GENTLE FOR YOUR TABLE SYSTEM

Our strict quality standards are applied to our new fast clamping bolt: simple, elegant and long-lasting. The strong mechanism allows fixing and releasing in seconds.



- Optimised grip ergonomics: enough space between handhold and work piece enables easier handling
- The bolt's body is made out of hardened, high-alloyed steel for maximum hardness
- Hardness similar to that of the bore holes and ground to size for fitment
- Due to 4 balls in the toggle, principle force is intensified with a minimum of internal friction

- Faster clamping by force intensification
- Optimised surface for a maximum grip
- With minimized internal friction there is no o-ring needed, thereby there is no trapping of dirt in the bore holes
- Ø 13 mm balls; High contact surface area; Wide area of clamping force
- Support due to 3 balls optimizes load balancing according to the trihedral principle



TOOL SETS

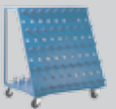
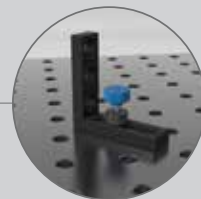
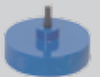
Tool sets are available in a steel tools version and also in an aluminium tools version. There are different sets, the smallest containing 39 tools, the biggest containing 138 tools.





ACCESSORIES

There are many accessories available ranging from convenient and efficient storage for all your tools to practical allen keys for fast bolt tightening.

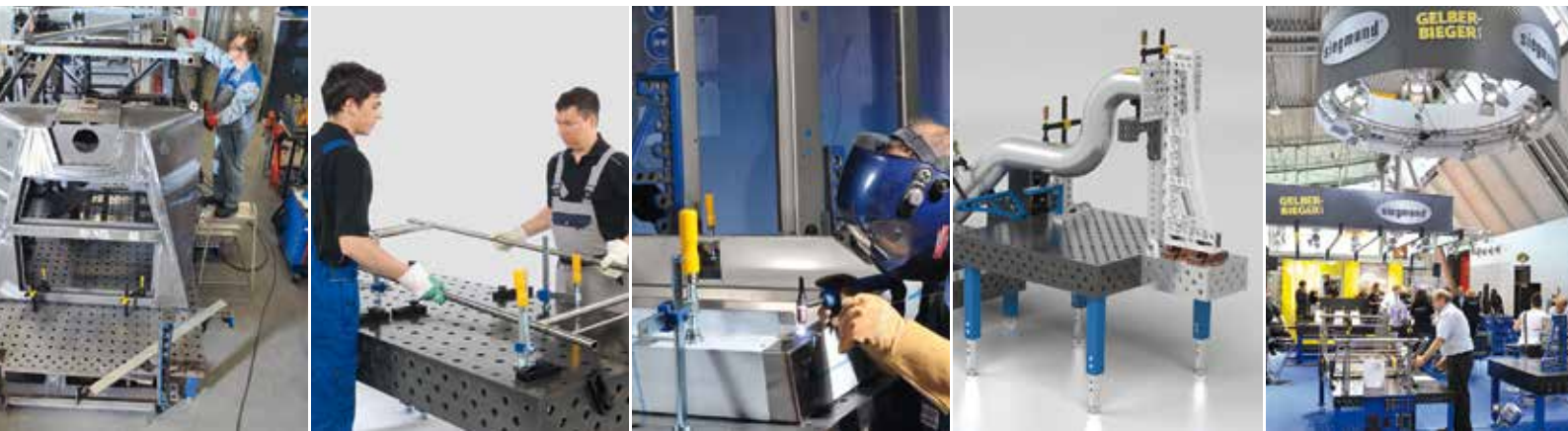


SIEGMUND CATALOGUE

See much more in the siegmund catalogue with over 600 pages! There you find all kinds of information about the company, table uses and all the accessories.



siegmund®



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