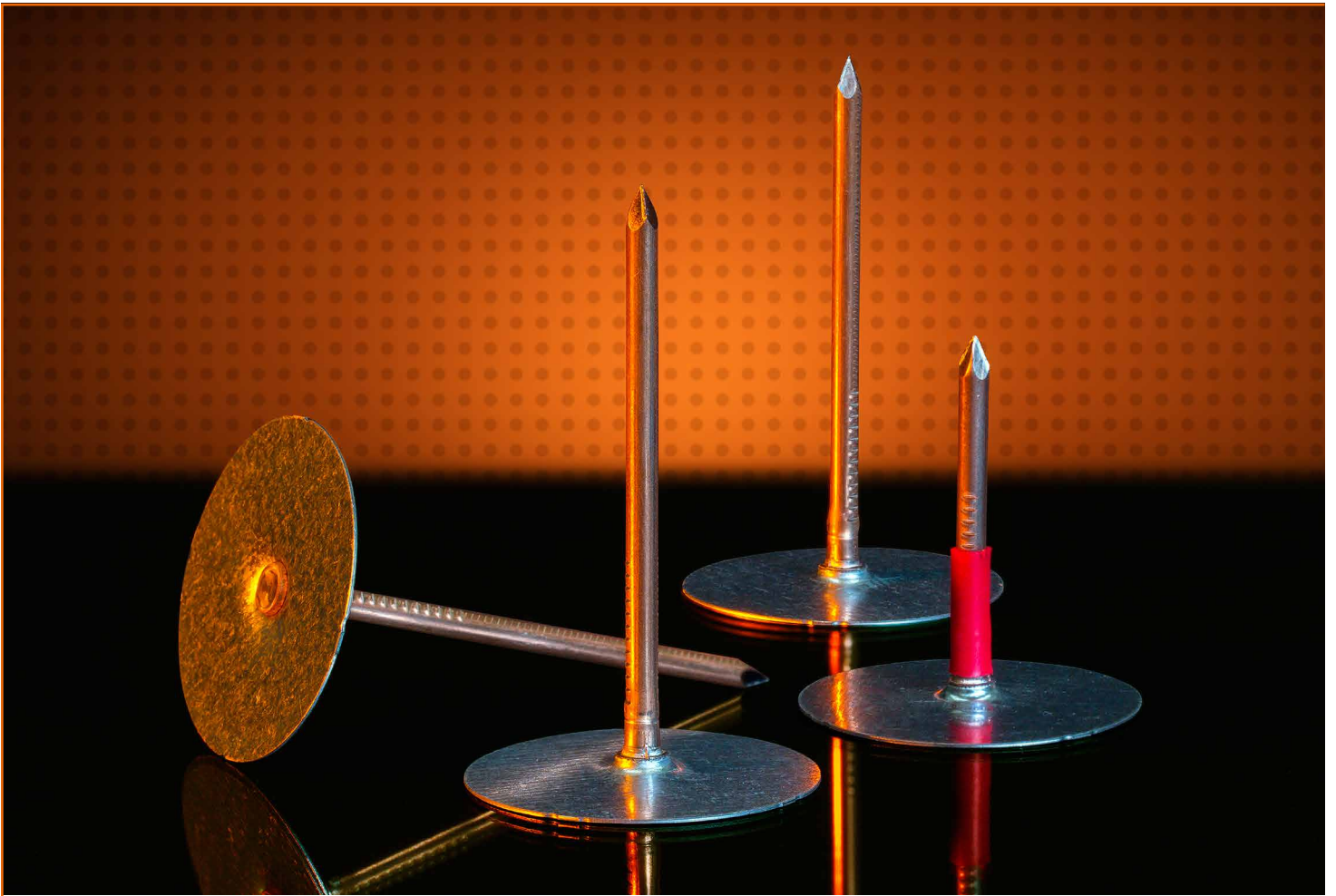


Befestigungssysteme -  
Klimatechnisches Zubehör  
GmbH

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Fixing systems

## With us, insulation work becomes enjoyable

For more than three decades, we have been a leading enterprise in innovative systems for technical insulation fixing and in accessories for air-conditioning and ventilation technology.

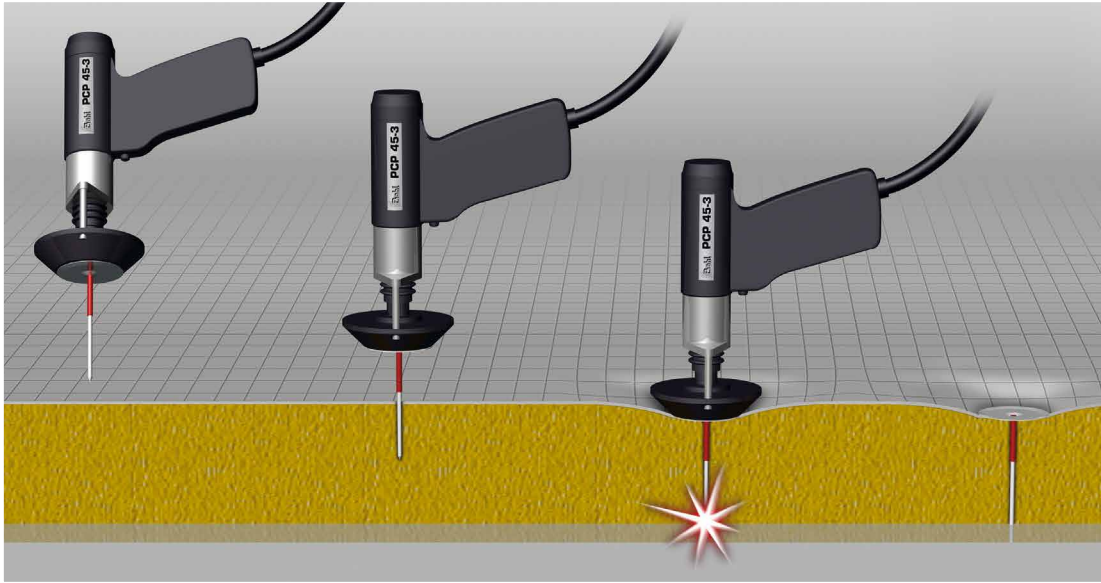
Close cooperation with our business partners makes it possible for us to offer a service that is flexible and that can respond to meet any requirement.

Our products and services orientate themselves to the increasing demands of the market and are continuously brought up to the most up-to-date technical standards.

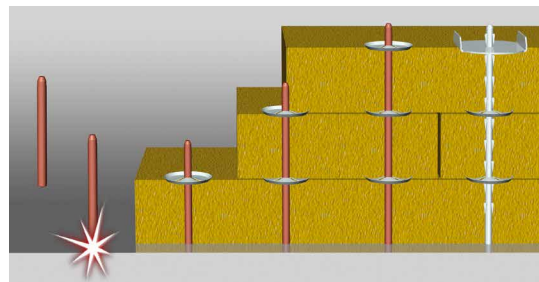
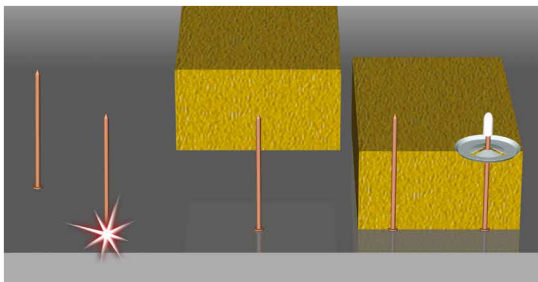
It is not only the high quality standard of our products, but also, in particular, our knowledgeable support which is based on a long experience that represents a genuine competitive advantage for our customers.

For more details don't hesitate to call our sales department:  
+49 (0)7943 / 944889-0

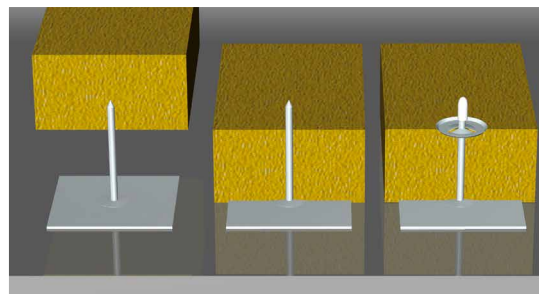
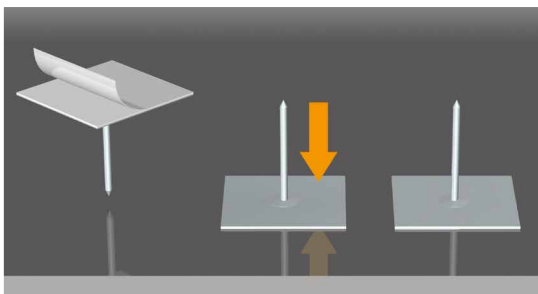




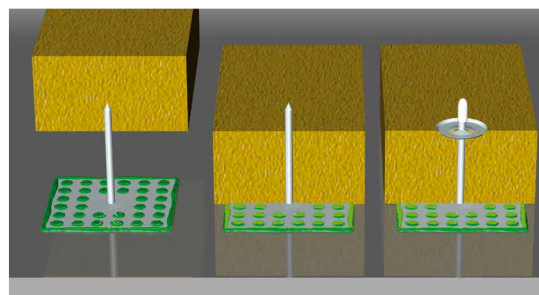
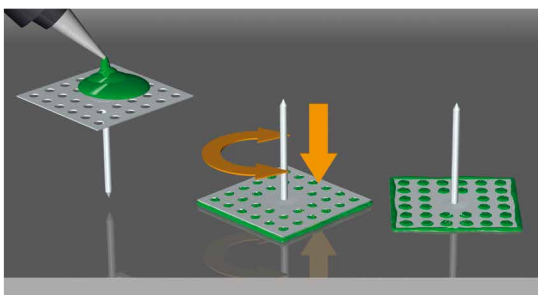
Fixing with Clip-pin welding pins



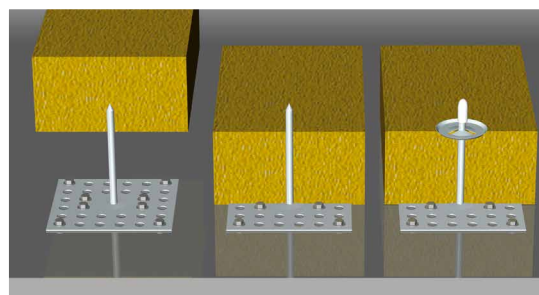
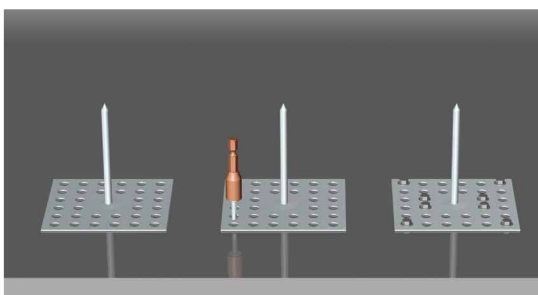
Fixing with welding pins



Self-adhesive fixing with CLAVU-fix



Adhesive fixing with CLAVU-por



Screw or rivet fixing with CLAVU-por



## BOHL GS 100 accu+

The Bohl GS 100 accu+ stud welder equipment can be used in battery or mains mode as required. The battery can be charged via the device. The welding machine provides a high level of safety, is highly suitable for work on site and is easy to operate. Optimum welding results with different welding elements and a long working life are further characteristics of the Bohl GS 100 accu+.

Working Range	: Clip-Pin welding pins DN 2.7 mm, Clip DN 30 mm Pin copper-plated steel/Clip galvanized steel Pin stainless steel/Clip galvanized steel
Installation speed	: 15–20 pins / min
Power source	: Capacitor 100,000 µF
Mains voltage	: 100 V to 230 V 50/60 Hz 10 AT
Battery operation	: 25,2 V
Battery capacity	: about 400 welding pins
Dimensions	: 365x190x240 mm (lengthxwidthxheight)
Weight	: 12 kg (stable sheet metal housing)



## Transport and storage case made from sturdy plastic and self-service set

This **transport and storage case** made from sturdy plastic can transport welding machines and accessories securely and safe from damage or dirt and stored on sites or on the company's premises. Foam inserts protect all the technical components from damage during transport in particular. In addition, the box makes it easier to store all components, from welding equipment to operating instructions, tidily in the minimum amount of space. A sturdy **trolley**, available as an option, allows the entire system to be handled easily and safely.



The **self-service set** allows basic maintenance work to be carried out to all parts subject to wear and consists of: 1 x service instructions, 1 x assembly pin, 1 x holding magnet, 1 x insulating sheath, 4 x contact ring (for use with all welding guns in the GS 45 and GS 100 series)



## BOHL GH 950

Handy, powerful drawn-arc welding equipment with mains voltage filter for use with special insulations in power stations, industrial plants, shipyards, etc.

The machine only needs a mains voltage supply from 100 V to 230 V and provides triple the performance taken from the power supply. The Bohl GH 950 provides optimum welding results, is very safe and suitable for building site work and has a long working life.

Welding process	: drawn-arc
Welding range	: diam. 3–8 mm, welding pin length with standard stand up to 220 mm; with special stand up to 420 mm (extra cost)
Welding material	: steel (alloyed and non-alloyed)
Welding speed	: depending on application up to 40 studs/min
Welding time	: 5–200 ms (infinitely variable)
Connection	: 100–240 V, 1 phase, 50/60 Hz, 16 AT
Dimensions (LxWxH)	: 415x250x360 mm (with handle)
Weight	: 17 kg

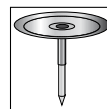


## Guns and gun accessories for BOHL GS 45-3



### PCP 45-3

Special welding gun for use with Clip-pin insulation welding pins. A special microswitch triggers the welding operation and guarantees a consistent welding quality. It has an integrated spring pressure adjustment system for insulation with high bulk density (e.g. DUC-TROCK).

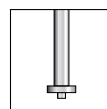


**Clip-Pin-Stifte**  
 Ø 2,7 mm,  
 L 14,5–152,4 mm  
 Steel/stainless  
 steel

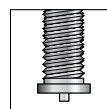


### PMK 20

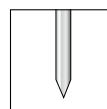
Special welding gun for use with welding studs with flange and ignition tip as well as insulation welding studs. By employing a special chuck, welding pins can also be used for fixing "Foamglass" plates.



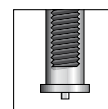
**Pins with flange and ignition tip**  
 Ø 2-3 mm,  
 L 32–114 mm  
 Steel/stainless  
 steel



**Threaded studs with flange and ignition tip**  
 M3–M8  
 Steel/stainless  
 steel



**Foamglass pins**  
 Ø 2 mm,  
 L 70 mm  
 Steel



**Internal threaded stud with flange and ignition tip**  
 M3–M5  
 Steel/stainless  
 steel

## Replacement battery and charger for BOHL GS 100 accu+



### Battery charger 150

Ideal for charging a second battery at work or over night if the welding machine is left on site. Includes power cord.



### Replacement battery 150

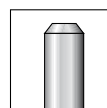
The replacement battery is the same design as the battery supplied. Having a number of batteries increases efficiency on site.

## Guns and gun accessories for BOHL GH 95

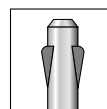


### PMH 950

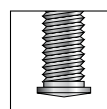
Special welding gun with drawn-arc system. With this welding gun, the most specialised welding elements can be employed depending on the use of the corresponding chucks.



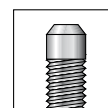
**Drawn-arc welding pins**  
 Ø 3-6 mm  
 L 60–420 mm  
 Steel/stainless  
 steel



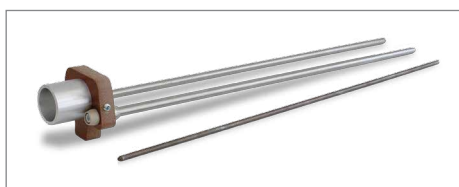
**Bayonet pins**  
 Ø 5 mm  
 L 90–420 mm  
 Stainless steel  
 (1.4841)



**Threaded bolt Typ PS**  
 M5–M8  
 Steel/  
 stainless steel



**Drawn-arc welding pins**  
 in special  
 configuration  
 Ø 3-6 mm,  
 L 60–420 mm  
 Steel/stainless  
 steel



By using a special stand, welding pins up to a length of 420 mm can be fixed.

## Clip-pin insulation welding pins

The combination of welding pin and safety disc enables the fixing of insulation on sheet metal in a single process. Thanks to the shank insulation, insulation with aluminium lamination or wire gauze can easily be fixed.



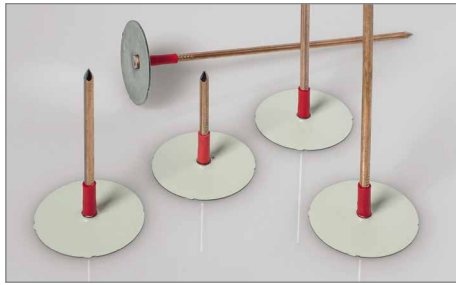
Configuration	: Insulation pin and safety clip combined
Pin	: Ø 2,7 mm insulated Ø 2,7 mm uninsulated
Material	: Copper-plated steel Stainless steel
Clip	: Ø 30 mm Zinc-plated steel
Lengths	: 14,5–152,4 mm

## Clip-Pin insulating welding pins



### Coated clip

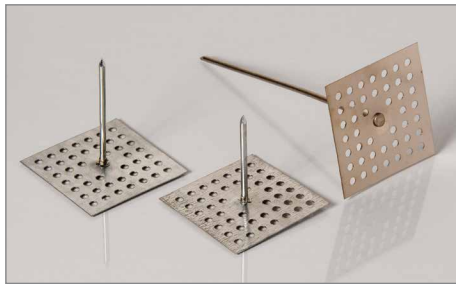
The combination of welding pin and safety disc allows insulating materials to be fixed to metal in one work stage. The shaft insulation and clip coating mean that insulation with an aluminium backing or wire gauze can be fixed without any problem.



Configuration	: Insulation pin and safety clip combined
Pin	: diam. 2.7 mm insulated diam. 2.7 mm uninsulated
Material	: Copper-plated steel Stainless steel
Clip	: diam. 30 mm Galvanised steel/underside coated
Lengths	: 14,5–152,4 mm

## CLAVU-por fixing pins with perforated base plate

CLAVU-por fixing pins enable a quick and uncomplicated fixing of insulants on smooth, rough and uneven surfaces (e.g. concrete, masonry, metal). The fixing is made by means of CLAVU-dis special adhesive or with screws or rivets.



Configuration	: Fixing pin with perforated base plate and safety disc
Base plate	: Hot-dip galvanized steel plate / stainless steel
Pin	: Ø 2,7 Steel, stainless steel, aluminium
Lengths	: 25 mm–203 mm
Safety clip	: Ø 30 mm / 38 mm Zinc-plated steel / stainless steel
Adhesive	: Cartridge 310 ml

## CLAVU-fix self-adhesive pins

CLAVU-fix self-adhesive pins enable a quick and uncomplicated fixing of insulation on smooth and clean surfaces. The high grade adhesive on the base, ensures that these pins provide a secure fixing for the insulation.



Configuration	: Fixing pin with self-adhesive base plate and safety disc
Base plate	: Hot-dip galvanized steel plate, stainless steel
Pin	: Ø 2,7 mm Steel, stainless steel, aluminium
Lengths	: 25 mm–203 mm
Safety clip	: Ø 30 mm / 38 mm Zinc-plated steel / stainless steel

## Drawn-arc welding pins

Drawn-arc welding pins are used in case of special requirements, especially for heat and fire-resistant insulation. Thanks to the lengths of up to 420 mm, the pins are also suitable for multi-layer, splice-staggered applications.



Configuration	: Reduced point studs available in numerous options (with thread, bayonet, etc) Cone/hemisphere head
Material	: Steel, stainless steel, 16Mo3, etc
Pin	: Ø 3,0–6,0 mm
Lengths	: 65–420 mm

## Insulation welding pins

Insulation welding pins are particularly used during pre-assembly or in case of special requirements (e.g. additional wire mesh sleeve) and are available in the widest range of materials.



Configuration	: Flange and ignition tip Cone/hemisphere head
Material	: Steel, stainless steel, aluminium
Pin	: Ø 2,0 und 3,0 mm
Lengths	: 32–114 mm



## Safety discs

Safety discs are needed with all pre-mounted fixing pins (e.g. CLAVU-hot/CLAVU-fix/CLAVU por and drawn-arc welding pins) and make sure that the insulation material applied is held securely in place.



Configuration : Galvanised/stainless steel  
diam. 30 mm/38 mm  
self-securing

also available : Stainless steel clamp plates  
80 x 80 mm  
Stainless steel twist clips  
30 x 40 mm  
45 x 60 mm

## Protective caps

Protective caps and cap clips are put on with the fixing pins (e.g. Insulation welding pins /CLAVU-fix/CLAVU-por) for aesthetic reasons and reduce the risk of injury due to the projecting nail tips.



Configuration : Protective caps PVC  
Transparent and white

Cap clips  
Stainless steel/spring steel  
Aluminium / stainless steel

## Plastic-coated Safety discs

Safety discs are needed with all pre-mounted fixing pins (e.g. CLAVU-hot/CLAVU-fix/CLAVU por and drawn-arc welding pins) and make sure that the insulation material applied is held securely in place.



Configuration : Galvanised / stainless steel  
diam. 38 mm  
Plastic coating in dark grey, black,  
white or light grey

## SPRING Spiral screw

The Fireprotect Screw is a spiral screw made from galvanised steel wire coil. It is used when lining ventilation ducts to fix the insulation sections to each other mechanically.



Configuration : Galvanised  
diam. 20 mm/ diam. 8 mm  
120 mm

## Further welding elements

Through the use of threaded studs and internal threaded sleeves during demanding assembly and insulation work, enormous savings in time and cost can be realised, by eliminating work processes such as drilling, stamping, thread-cutting and riveting.



Configuration : Threaded studs  
Ø M3-M8  
Internal threaded sleeves  
Ø Internal M3-M5

Material : Zinc-plated steel  
Stainless steel  
Aluminium

## Identification according to DIN

A clear identification of the pipelines according to the fluid conveyed is necessary in interest of safety, correct repair and effective fire-fighting. It should point out dangers in order to avoid accidents and damage to health.



Configuration (tapes) : Identification tapes  
according to DIN 2403

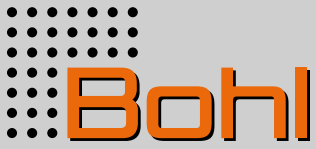
Material : Tissue tape  
Dimensions : 90 mm x 25 m / roll

Configuration (labels) : Identification labels  
according to DIN 1946 / DIN 2403

Material : PVC films

Dimensions : Different standard sizes

Colour : By the material types according to RAL



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Rudolf-Diesel-Straße 3  
D-74214 Schöntal  
Tel +49 (0)7943 / 944889-0  
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