

SO Sastening systems

Fastening systems for insulation

HVAC

Fasteners for heating, ventilation and air-conditioning

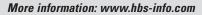
If you want to fasten insulation mats in a fast and cost efficient way, you should use ISO-PLUS cupped head pins.

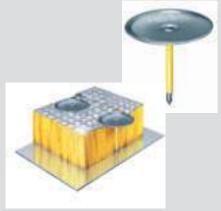
With this procedure, you fasten the insulation mat to the base material in one process step. This perfect fastening procedure replaces the very complicated traditional procedure: weld on a pin, push the mat over the pin, put on the clip and then cut the projecting tip or bend it.

It's so easy! Push the cupped head pin onto the chuck of the welding gun and push it through the mat – weld within 3 milliseconds! Done.



	CD 1501		
Welding range	CH pins dia. 2 and 2.7 mm, Insulation pins dia. 2 and 3 mm (studs with standard gun M3 to M8)		
Welding rate	CH pins up to 20 pieces/min.		
Primary power	230/115 V. 50/60 Hz, 10 AT		
Weight	17 kg		

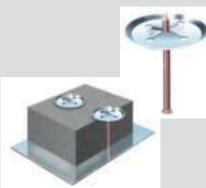




Power Units and Welding Guns

Especially suitable for insulation mats with and without aluminum cover.

- CD 1501: Compact, robust unit with metal casing for rugged operating conditions. Infinitely adjustable power setting (charge reversal via set-point switch)
- Cl 03: For welding cupped head pins (Ø 2 and 2.7 mm, length 9.5 to 152,4 mm).
- C 08: For welding insulation pins with flange and ignition tip
 (Ø 2 and 3 mm, length 20 to 300 mm).





HVAC - advantages

- Suitable for thin sheets of 0.5 mm and above
- Low heat input using pins of 2 mm diameter only
- No damage to the backside of thin and galvanized sheets when keeping the predefined welding parameters; especially with cupped head pins of 2 mm dia (zinc-corrosion protection is retained on back side)
- Suitable for insulation mats with and without aluminum foil
- Easiest operation
- > Welding in 3 milliseconds

ISO-PLUS cupped head pins

With or without shaft insulation. Insulation mats with aluminum foil require special cupped head pins with insulation (1). The shaft insulation and the down-holder (2) avoid a short-circuit with the aluminum foil during welding. Also Conlit fire-insulation mats can be fastened with cupped head pins.

ISO-Pin with Clip

Insulation pins with clips are preferably used with preassemblies, e.g. fire-protection mats or mats with wire meshing.



FRI

Fire-Resistant Insulation

HBS in use! For example: Thermal power stations with incineration plants, industrial furnaces, chemical and petrochemical industries.

Optimum fastening of fireresistant insulation with special pins and clips. For outstanding protection of steel structures against high temperature (up to 1250°C) and corrosion.



HBS supplies suitable pins and clips



FRI - advantages:

- Applicable mobile and stationary
- 230 V main connection or 400 V 3-phase current connection
- > Fast and cost efficient
- Optimum result even with difficult surface
- Welding in milliseconds

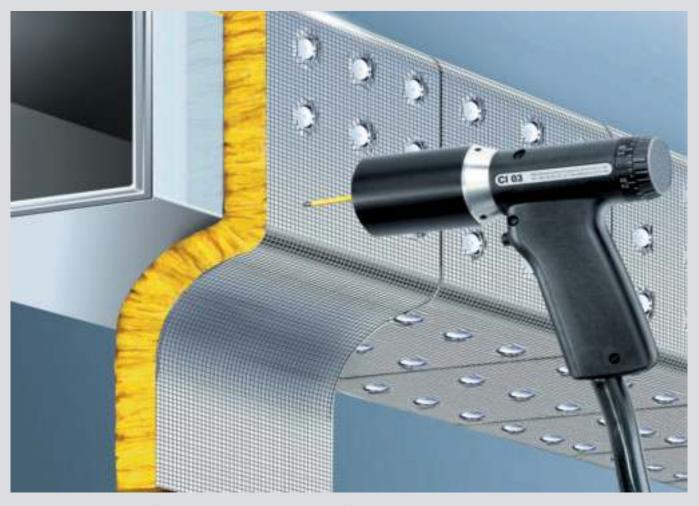
	SC 2401	ARC 500	IT 1002
Welding range	ARC-insulation pins dia. 3 to 5 mm	ARC-insulation pins dia. 3 to 6 mm (studs with standard gun dia. 2 to 8 mm)	ARC-insulation pins. — fiberfix pins, ARC Y-Refractory ancors, ARC Rectangular two tine refractory anchors, dia. 2 to 14 mm
Welding rate	dia. 4 = 12 pieces/min; dia. 5 = 8 pieces/min		M12 = 25 studs/min
Primary power	230/115 V, 50/60 Hz, 10/16 AT	400 V, 3 phases, 32 A, 50/60 Hz, 35 AT	400 V, 3 phases, 32 A, 50/60 Hz, 35 AT
Weight	28 kg	31 kg	29 kg

More information: www.hbs-info.com

Power Units and Welding Guns Integrated mains filter. Optimal for construction sites with large mains voltage fluctuations. • SC 2401: Welding unit for 230 V mains supply • ARC 500: Applicable mobile and stationary. Suitable for welding ARC-insulation and -fiberfix pins • IT 1002: Especially suitable for material with high heat resistance. Current adjustment range 100 to 1,000 A. Welding time 5 to 1,000 msec (stepless) • Al 06 (with 10 m welding cable) • A 12 and A 16 (with 5 m welding cable)

HVAC

Fasteners for heating, ventilation and air-conditioning



Example: Insulation of HVAC (heating, ventilation and air-conditioning) by cupped head pins. Weld within 3 milliseconds

Fire-Resistant Insulation



Example: Power stations with HBS Welding unit SC 2401 and 230 V mains connection





Benefit with HBS

Leading through technology,

quality and service.

5 welding processes, 12 model series and more than

30 model variants.

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