



Pad and Stud Welding

Pad and Stud Welding with HBS: 5 stud welding processes, 12 model series with more than 30 model variants. Plus: tailor-made solutions. Worldwide service.



CD – Capacitor Discharge

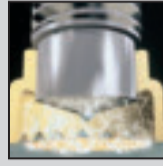
Capacitor discharge stud welding

Application: especially suited for welding on thin sheet metal min. 0.5 mm (0.024") minimum
Welding range: M3 to M10 (#4 to 3/8")
Welding material: mild steel, stainless steel, aluminum and brass



Power units: CD 1501, CD 2301, CD 3101, CDM 2401, CDM 3201, ACCU TWIN
Welding guns: CA 08, C 08

Welding elements: threaded studs, pins, studs with internal thread, christmas tree studs, paint clearing studs, grounding clips, custom-made fasteners and studs



ARC – Drawn ARC

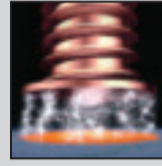
Stud welding with ceramic ferrule or shielding gas

Application: especially suited for welding on thicker sheet metal of 2 mm (0.08") and above
Welding range: dia. 2 to 25 mm (M24) (14 ga to 1")
Welding material: mild steel, stainless steel



Power units: ARC 500, ARC 800, ARC 1550, IT 1002, IT 2002, IT 3002, IT 90, IT 130
Welding guns: A 12, A 16, A 22, A 25

Welding elements: threaded studs, pins, studs with internal thread, concrete anchors/shear connectors, collar studs



SC – Short Cycle

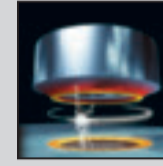
Short cycle drawn arc stud welding

Application: ideally suited to fasten christmas tree studs (ex. cable fixation)
Welding range: dia. 2 to 16 mm (14 ga to 5/8")
Welding material: mild steel, stainless steel, aluminum



Power units: SCD 3201, ARC 500, ARC 800, ARC 1550, IT 1002, IT 90, IT 130
Welding guns: CA 08, A 12, A 16, AI 06,

Welding elements: threaded studs, christmas tree studs, studs with internal thread, pins



MARC

Pad welding with magnetic rotating arc

Application: low-cost, efficient process for welding hollow cylindrical parts. Closed and pressure sealed weld all-over.
Welding range: pads up to 30 mm (1.81") external diameter
Welding material: mild steel, stainless steel



Pad welding machine: PC-M3

Power unit: MARC 1

Welding gun: AM 30

Welding elements: MARC pads, Hexagon nuts



AUTOMATION

Automated stud welding machines: CPW 0604, MPW 1010, MPW 2010 (custom made stud welding machines on request)

Processes: CD, ARC and SC

Welding range: M3 to M8 (dia. #4 to 5/16"), dia. 10 to 12.7 mm (dia. 3/8" to 1/2") with modification

Stud material: Mild steel, stainless steel, aluminum, brass



Stud Welding Components

High quality components, to be combined for any kind of stud welding application. Also suitable for robot systems. Custom-made stud welding machines.

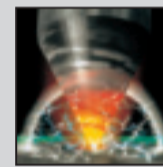
Power units: CDM 2401, CDM 3201, SCD 3201, ARC 800, ARC 1550, IT 1002, IT 50, IT 90

Automatic welding heads: KAH 412, KAH 412 LA

Automatic welding gun: PAH-1

Stud feeding: VBZ-3, PBZ

Accessories: Pneumatic clamps, change over kit, feeding switch point, assortment kit, down holder, spray device

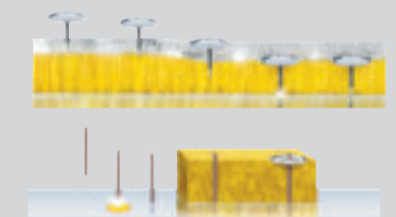


ISO – Insulation

Fastening systems for insulation

Application: fasteners for heating, ventilation and air-conditioning mats (HVAC) and fire-resistant insulation (FRI)

Material: mild steel, stainless steel



Power units: HVAC – CD 1501

FRI – SC 2401, ARC 500, IT 1002

Welding guns: HVAC – CI 03, C 08

FRI – AI 06, A 12, A 16

Welding elements: HVAC – cupped head pins, insulation pins with clips

FRI – ARC-insulation – and fiberfix pins with clips





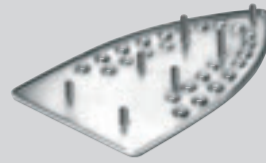
Pad and Stud Welding

Considerable time and cost saving. Design alternatives.
Leading-edge technology that yields outstanding results.

CD – Capacitor Discharge



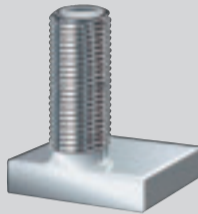
Especially suited for:
thin sheet metal
min. 0.5 mm (0.02"),
automation, aluminum.
Welding range: M3 to M8
(M10) [#4 to 5/16" (3/8")]



ARC – Drawn ARC



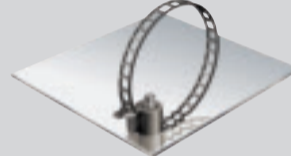
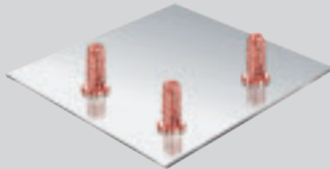
Especially suited for welding
on thicker sheet metal of
2 mm (0.08") and above.
Weld protection with shielding
gas or ceramic ferrule.
Welding range: 2 to 25 mm
(14ga to 1") diameter



SC – Short Cycle



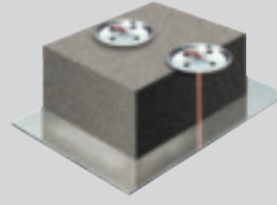
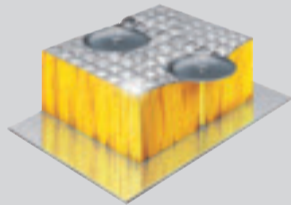
Especially suited for: x-mas
tree studs (ex. cable fixation),
thin sheet metal, automotive
industry, automation. Single
phase mains only!



ISO – Insulation Market



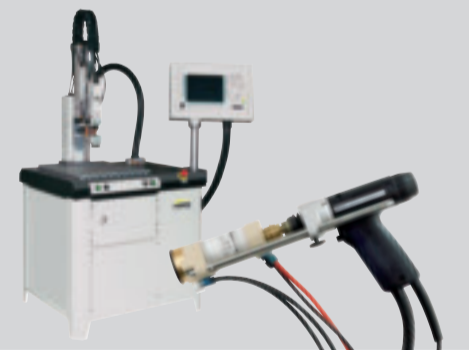
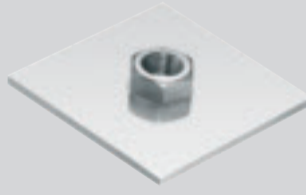
Economical fastening method
of insulation mats HVAC
(heating, ventilation,
air-conditioning) and FRI
(fire-resistant insulation)



MARC – Magnetic rotating ARC



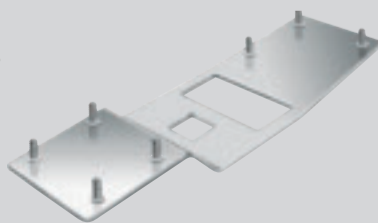
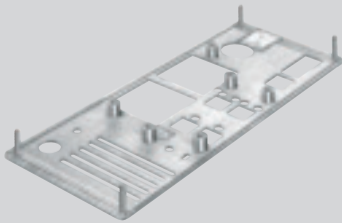
The most innovative process
for welding pad type elements.
Welding range: Pads up to
30 mm (1.81") external diameter.



Automation



Highest productivity, ultimate
positioning accuracy, perfect
welding result.



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