



## PH-3N Stud Welding Gun with Magnet Coil



### PH-3N SOYER stud welding gun with magnet coil

**Description:**

Together with simple and practical operation, the newly developed PH-3N SOYER stud welding gun with magnet coil offers a maximum of technical performance advantages for producing high-quality stud welded joints in the radial-symmetric magnetic field. Further advantages are the welding gun's ergonomic and slim shape as well as its low weight and exemplary design. In continuous application, the PH-3N stud welding gun allows fatigue-proof welding of studs and pins with a maximum diameter of up to 12 mm using shielding gas as auxiliary aid. (For innovative special features, please see over).

**Technical data:**

<b>Welding range:</b>	Studs and RD/FD pins from M8 - M12 or 8 - 12 mm in diameter
<b>Welding process:</b>	Short-cycle drawn arc stud welding in the radial-symmetric magnetic field
<b>Material:</b>	Steel, stainless steel and heat-resistant steel
<b>Welding sequence:</b>	up to max. 30 studs/min, depending on dimensions
<b>Welding and control cables:</b>	5 m highly flexible
<b>Total length with magnet coil:</b>	approx. 280 mm
<b>Total height above grip:</b>	110 mm
<b>Total width:</b>	65 mm
<b>Weight:</b>	1.3 kg without cables

Subject to technical changes

# Innovative Special Features of the PH-3N Stud Welding Gun with Magnet Coil

The new PH-3N SOYER stud welding gun with magnet coil is a top-line product with precision mechanics and long-term quality. Due to the compact and extremely slim design, the welding gun is suitable for application in complicated, narrow locations and areas of difficult access. The PH-3N stud welding gun is the ideal completion to the larger and heavier PH-2L, PH-4L and PH-5L SOYER stud welding guns.

Additional performance features of the PH-3N stud welding gun with magnet coil include:

- ▶ Development and production are in compliance with all prescribed safety targets such as
  - the latest safety and accident prevention regulations (Act on the Safety of Technical Working Equipment)
  - electromagnetic compatibility (EMC Act)
  - European regulations (EU Directives on Machinery)
- ▶ Multifunctional application for stud and nut welding
- ▶ Impact- and break-proof whole-body synthetic housing
- ▶ Optimum protection against welding spatters, dirt and other contamination
- ▶ Welding and control cable guide in the handle
- ▶ Support legs can be easily adjusted for differing stud lengths
- ▶ Easy replacement of the support with magnet coil by a standard support suitable for conventional inert-gas-shielded arc welding or ceramic ferrule stud welding
- ▶ Simple, manual lift adjustment by means of a special notched turning knob and readability of set values
- ▶ Very precise stud positioning owing to motional sequences which are free from backlash
- ▶ Long service life and long-term quality owing to wear-free guide bush with ball bearing and special hardened and ground guide piston



Small, regular and spatter-free collar



Reduced penetration



Narrow fusion zone. No arc blow effect



Low-cost welding studs of premium quality



Nut welding on punched sheet metals



Nut welding on non-punched sheet metals

SOYER top-of-the-range products awarded the following prizes for



Production



Quality



Technology



Design



Stud Manufacture



Quality Management



International Approval



Safety



EC Conformity