



SK-5AN Automatic Welding Head



The SK-5AN automatic welding head allows welding elements to be welded on metallic workpieces at lightning speed.



SK-5AN SOYER automatic welding head for capacitor discharge stud welding

Description:

The new compact SK-5AN stud welding head with small-sized, slim design and low weight has a unique and patented semi- and fully automatic stud feed system (Pat. No. 0406459). The SK-5AN welding head can be easily and rapidly converted to other stud diameters. Possible jams caused by studs are instantly detectable and can be immediately eliminated due to free accessibility. All connections are pluggable and thus easy to maintain and to install. The SK-5AN stud welding head is ideal for connection to stationary machining centres, CNC machines, robots, handling systems etc. (For innovative special features, please see over).

Technical data:

Welding range:

Studs and pins from 3 - 8 mm in diameter and 6 - 40 mm in length (standard)

Material:

Steel, stainless steel, aluminium and brass

Welding sequence:

up to a maximum of 30 studs/min, depending on dimensions

Compressed-air supply:

5 - 7 bar

Type of cooling:

Automatic air cooling of stud holder on stud transport with simultaneous cleaning

Dimensions:

75 x 300 x 110 mm (w x h x d)

Weight:

2 kg (4.5 kg with slide)

Convertibility:

from gap to contact welding (option)

Subject to technical changes

Innovative Special Features of the SK-5AN Automatic Welding Head

The new SK-5AN SOYER automatic welding head with semi- or fully automatic stud feed is a top-line product with precision mechanics and long-term quality. Its compact and extremely slim design makes the SK-5AN automatic welding head particularly suitable for stud welding works in complicated, narrow and difficult-to-access locations as well as for welding operations near high edges.

Additional performance features of the SK-5AN automatic welding head 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)
- ▶ Universally applicable for all known capacitor discharge, drawn arc and short-cycle drawn arc stud welding processes
- ▶ Quick-change system for conversion to other stud diameters
- ▶ Simple conversion system for oversized studs up to 12 mm in diameter (optional equipment)
- ▶ Optional retrofitting with a patented digital display for lift and plunging distances for quality assurance purposes (Pat. No. 589 05 207)
- ▶ Plug-in connections for easy maintenance and quick assembly
- ▶ Test switch for the simulation of welding sequences with function control and lift setting
- ▶ Conversion possibility from gap to contact welding (option)
- ▶ Retrofitting possibility for stand device with support tube for supporting the welding head and simultaneous fixing of the workpiece as a protection against bounce and concave positioning (optional equipment)
- ▶ Fine hand adjustment of lift in defined steps of 0.1 mm by means of a special notched turning knob at the end of the welding head
- ▶ Very precise stud positioning accuracy 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 surface-treated and ground guide piston with air cylinder

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



Production



Quality



Technology



Design



Quality Management



International Approval



Safety



EC Conformity