

KTS-2550 CNC W Stud Welding Machine



KTS-2550 CNC W SOYER Stud Welding Machine

Description:

The KTS-2550 CNC W stud welding machine is a top-quality new development incorporating a solid design with long-term quality and precision. The particularly favourable price/efficiency ratio enables profitable operation and universal application even with small and medium-scale manufacture.

The new XXL generation allows parts up to 2500 mm to be loaded from the front of the machine. A well-thought-out concept enables a simple operation of the machine.

Technical data:

Clamping surface T-slot

board: 3 000 mm x 1 850 mm

Working area X-axis: 2 500 mm

Working area Y-axis: 1 250 mm

Load capacity of table
board: 100 kg

Headroom between T-slot
board and X-axis: 300 mm

Travel: X = 2500 mm, Y = 1250 mm

Dimensions: 5 000 mm x 2 830 mm x 3 000 mm (w x h x d, without control system)

Technical specifications are to subject to change without notice

Innovative Special Features of the KTS-2550 CNC W Stud Welding Machine

The KTS-2550 CNC W three-axis stud welding stud machine with outstanding quality and performance features opens new dimensions in the field of stud welding technology. The X and Y motional axes are driven by high-quality, precise and backlash-free recirculating ballscrews. The linear rail guides have a very high loading capacity in all directions, are of a rigid, compact design and are free from backlash. The Z-axis is equipped with a pneumatic slide and a precision crank handle slide. A motor-driven Z-axis is optionally available. This machine enables fully automatic welding of studs and pins from 3 - 10 mm in diameter and up to 40 mm in length in accordance with all known stud welding systems. Special studs are available on request.

Development and production fulfil all prescribed safety targets such as

- the latest safety and accident prevention regulations (Act on the Safety of Technical Working Equipment)
- European regulations (EU Directive on Machinery)
- electromagnetic compatibility (EMC Act)
- GS mark and CE mark for verified safety provided the machine is supplied with the optional full casing in accordance with EU Directive on Machinery 98/37/EC being installed in factory.

Standard equipment:

- 1 BMS-10N energy source (other stud welders such as BMS-10P, BMK-10LC etc. are optionally available)
- 1 SK-5AP welding head with digital display
- 1 UVR-300 universal feeder for standard studs with flange

Option: Possibility of mounting several welding heads or machining centres (milling heads, drilling heads etc.)
A well-thought-out concept enables a simple operation of the control and machine. Previous knowledge of programming languages is not necessary.

MA-400-S CNC control with graphical programming system:

- Industrial PC with at least 256 MB RAM, 30 GB hard disc, CD-ROM, 32 MB graphics card, 1.7 GHZ
- Intel compatible processor, membrane keyboard with IP67 touch pad, 15" TFT display

Performance characteristics:

- ▶ Programming according to DIN 66025
- ▶ Manual and automatic operation
- ▶ Manual entry of the positions
- ▶ Selectable park position
- ▶ Free selectable change position (welding head change)
- ▶ Real time simulation with graphical display
- ▶ Cycle times changeable during program flow
- ▶ Positioning speed selectable during program flow
- ▶ Zero point correction for each welding head
- ▶ Automatic follow-up impulse in case of missing studs
- ▶ Shiftable graphic and numeric position display
- ▶ Remote maintenance and remote diagnosis via ISDN modem (option)
- ▶ Web cam for optical remote diagnosis via ISDN (option)
- ▶ Programming in a matter of seconds through importing DXF files



Four SK-5AP welding heads with digital display for precisely measuring the lift-off distance and the immersion depth

Besides the KTS-2550 CNC W, the following CNC machines with different travels or several welding heads are available:

KTS-550 CNC, KTS-850 CNC, KTS-1550 CNC, KTS-2550 CNC

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



Production



Quality



Technology



Design



Stud Manufacture



Quality Management



International Approval



Safety



EC Conformity