

## KTS-550 CNC Coordinate Table



The new "intelligent" automatic welding head with microprocessor measures the lift and plunging distances and digitally shows the values on the display of the welding head. For detailed information, please refer to the product information of the SK-5AP automatic welding head.



### KTS-550 CNC SOYER coordinate table with casing

#### Description:

The KTS-550 CNC high-speed coordinate table 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. (For innovative special features, please see over).

#### Technical data:

##### Clamping surface T-slot board:

940 mm x 725 mm

##### Working area X-axis:

490 mm

##### Working area Y-axis:

485 mm

##### Loading capacity of table:

100 kg

##### Headroom between T-slot board and X-axis:

200 mm

##### Appurtenances X-axis:

Ball screw (pitch 20 mm) and servomotor drive module in closed loop 32 Ncm, linear guidance system with recirculating ball bearings type SHS-25C

##### Appurtenances Y-axis:

Ball screw (pitch 20 mm) and servomotor drive module in closed loop 32 Ncm, linear guidance system with recirculating ball bearings type SHS-25C

##### Travel:

X = 500 mm, Y = 500 mm, height adjustment via precision crank handle slide 150 mm, pneumatic welding stroke 120 mm

##### Operating accuracy:

+/- 0.15 mm

##### Repeating accuracy:

+/- 0.05 mm

##### Positioning speed:

max. 28 m/min

##### Dimensions:

1280 mm x 1880 mm x 1400 mm (w x h x d, without control system)

Subject to technical changes

# Innovative Special Features of the KTS-550 CNC Coordinate Table

The new KTS-550 CNC three-coordinate table 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. Each position of the X and Y axes are automatically displayed on the large colour screen. 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 and extra equipment for the connection of a second welding head are optionally available. When required, the coordinate table can also be mounted on a frame especially developed for this machine.

The KTS-550 CNC coordinate table 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 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 Directives on Machinery)
- electromagnetic compatibility (EMC Law)
- GS/CE emblem 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-5AN welding head (SK-5AP welding head with digital display is optionally available)
- 1 UVR-300 universal feeder for standard studs from 3 - 8 mm in diameter and 40 mm in length made of steel, stainless steel, aluminium and brass

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/modem (option)
- ▶ Programming in a matter of seconds through importing DXF files

Besides the KTS-550 CNC, the following coordinate-drive tables with different travels or several welding heads are available:

## 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