

## KTS-850 CNC Coordinate Table



- Safety tested
- Production controlled



KTS-850 CNC coordinate table without casing



### KTS-850 CNC SOYER coordinate table with casing

#### Description:

The KTS-850 CNC coordinate table in accordance with EU Directive on Machinery 98/37/EC is a high-quality new development incorporating a solid design with long-term quality and precision. The particularly favourable price/efficiency ratio enables profitable operation even with low and medium-scale manufacture. (For innovative special features, please see over).

#### Technical data:

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

1 240 mm x 1 000 mm

##### Working area X-axis:

800 mm without casing (750 mm including casing)

##### Working area Y-axis:

750 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 60 Ncm, linear guidance system with recirculating ball bearings type SHS-25C

##### Travel:

X = 800 mm, Y = 750 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. 24 m/min

##### Dimensions:

1 480 mm x 2 050 mm x 1 675 mm (w x h x d, without control system)

Subject to technical changes

# Innovative Special Features of the KTS-850 CNC Coordinate Table

The KTS-850 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. 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 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 Act)
- 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 optionally available)
- 1 UVR-300 universal feeder for standard studs with flange

Option: Possibility of mounting two 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 program 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

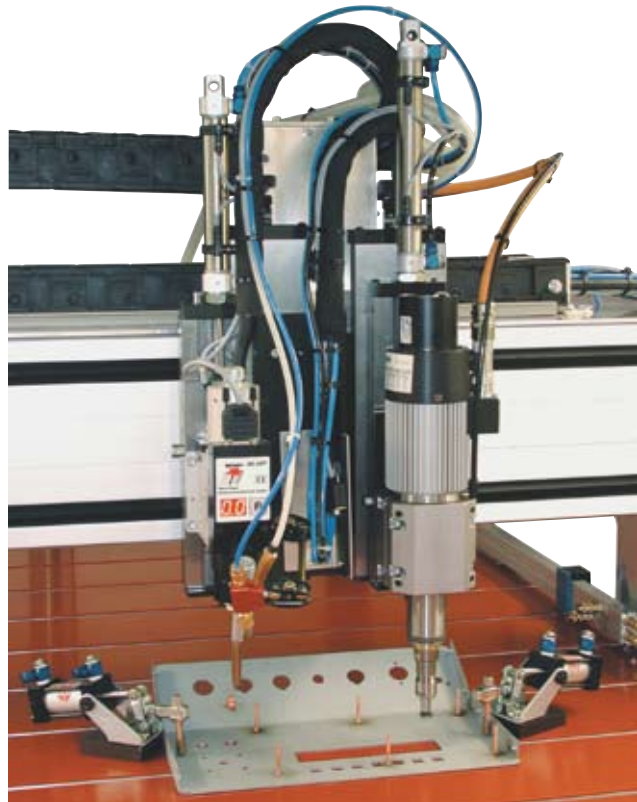
## Performance characteristics:

- ▶ 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-850 CNC, the following coordinate-drive tables with different travels or several welding heads are available:

## KTS-550 CNC, KTS-1550 CNC, KTS-2550 CNC

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



**SK-5AP welding head with digital display for precisely measuring the lift and plunging distances combined with a milling/drilling head**



Production



Quality



Technology



Design



Stud Manufacture



Quality Management



International Approval



Safety



EC Conformity