



## KÖCO-Stud Welding with Tip Ignition

### Highlights:

- Suitable for welding steel, stainless steel, aluminium and brass
- Welds studs from 3 to 10 mm diameter
- Continuously adjustable charging voltage
- Digital display of charging voltage
- Weighs 9,9 kgs only
- Intelligent self-diagnosis system

### Significant advantages of this process:

- Ultra-fast welding of studs and pins up to 10 mm diameter on sheet metal from 0.5 mm thickness
- Fastening of studs without punching, drilling, locking, threading, riveting, etc.
- Complete cross-sectional connection between stud and work-piece
- No damage or only insignificant damage to the reverse-side, no leakage in containers
- Virtually no distortion of the work-piece through welding
- Modest mains input requirements, no necessity for a three-phase power supply
- No filler material required
- A wide range of material combinations possible



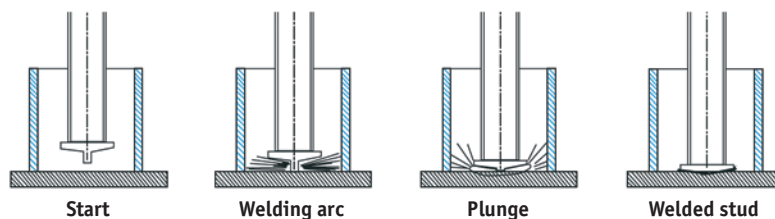
STUD WELDING UNITS KST 110, KST 108

# UNITS & GUNS

| Capacitor discharge stud welding units:                  | KST 110        | KST 108        |
|----------------------------------------------------------|----------------|----------------|
| Weldable stud range (mm ø)                               | 3 - 10         | 3 - 8          |
| Weld rate (pieces studs... /min)                         | M 10/8, M 6/15 | M 8/10, M 6/15 |
| Capacitance (µF)                                         | 99000          | 66000          |
| Mains connection (V)                                     | 115/230        | 115/230        |
| Charging voltage (V)                                     | 50 - 200       | 50 - 200       |
| Mains fusing, time-lag (A)                               | 6.3            | 6.3            |
| Frequency (Hz)                                           | 50/60          | 50/60          |
| Power consumption (W)                                    | 700            | 700            |
| Dimensions (LxWxH mm) (without handle and appliance leg) | 330×190×280    | 330×190×280    |
| Weight (kg)                                              | 9.9            | 8.9            |
| Protection                                               | IP23           | IP23           |
| Protection class                                         | 1              | 1              |
| Cooling (Option)                                         | F              | F              |
| Working temperature range (°C)                           | 0 - 45         | 0 - 45         |

| Capacitor discharge stud welding guns: | ESP 1 S  | ESP 1 K      |
|----------------------------------------|----------|--------------|
| Process variants                       | with gap | with contact |
| Welding/control cable (length) (m)     | 4        | 4            |
| Body PA GF30                           | black    | black        |
| Length (excluding chuck) (mm)          | 165      | 165          |
| Body ø app. (mm)                       | 40       | 40           |
| Height (including handle) (mm)         | 130      | 130          |
| Weight excluding cables app. (kg)      | 0.730    | 0.625        |

## Welding operation:



**S** Welding under increased electrically hazardous conditions permissible, CE-Labeling according to EN 60974-1 etc.  
Update 4/2011. Subject to technical modifications.