

STUDWELDING EQUIPMENT

Drawn Arc from 400Amp to 5000 Amp (Ø1 to 50 mm)
CAPACITOR DISCHARGE UP TO M10



DABOTEK

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TSK 310



TSG 310-H

TS306

Compact Capacitor Discharge Stud Welder after DIN 32500.

Working Area.

The maximum flexibility in use, are assured by an Inverter charging through a Microprocessor, which guarantees a fast and exact charging. The welding voltage can be adjusted by a potentiometer. The applicator adjusts itself to supply voltages of 110V to 220 VAC. LED's show unit ready for welding stud has contact with the steel and failure in the unit. Weight only 10 kg. Welding stud on mild steel, stainless, aluminium, copper and brass.

Welding pistol:

A small handy Welding pistol is delivered as a contact pistol, with pipe or three legs for accurate positioning. Extra: Gab pistol with pipe or three legs and adaptor for welding corners. Application for welding coppered head weld pin

Note:

BS 306 are without any change ready for both systems. The digital voltmeter indicates your working voltage, fast charging, inverter technology changes automatically between gab or contact pistol, the BS306 machine is getting air ventilation through a medical filter. With the Microprocessor control charging systems BS306 is ready to work under big change in Power supply voltage.

TECHNICAL SPECIFICATIONS :

Application	: Contact pistol, (gab pistol can deliv.)
Power source	: Capacitor 44.000 uF
Welding time	: Ca. 3 mS.
Welding area	: M3 til M8.
Materials	: Steel, stainless-steel, aluminium, copper, brass
Welding speed	: min. 13 studs/min.
Power Supply	: 110-240 V AC, 50-100 Hz, 600VA.
Dimension (mm)	: H220, B 190, D430
Weight	: About 10 kg.

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TSK 310



TSG 310

BS310

Compact Capacitor Discharge Stud Welder after DIN 32501.

Working Area.

The maximum flexibility in use, is assured by an Inverter charging, which guaranties a fast and exact charging. Weight only 10 kg. Welding stud on mild steel, stainless steel, aluminium, cobber and brass up to 10 mm.

Welding pistol:

A small handy Welding pistol is delivered as a contact pistol with three legs for accurate positioning. Extra: Gap pistol with nose cone assembly or tripod leg assembly and adaptor for welding corners.

Note:

BS 310 equipment is without any change ready for both systems. The digital voltmeter indicates your working voltage, fast charging, inverter technics change automatically between gap or contact pistol, the BS310 machine is getting all air ventilation through a medical filter. With the inverter technics the charging system is ready to work under big change in Power supply voltage

TECHNICAL SPECIFICATIONS :

Application	: Contact pistol, (gap pistol can deliv.)
Power source	: Capacitor. 88.000 uF
Welding time	: Ca. 3 mS
Welding area	: M3 til M10
Materials	: Steel, stainless-steel, aluminium, cobber, brass
Welding speed	: min. 20 studs/min
Power Supply	: 110-240 V AC, 50-100 Hz, 600VA.
Dimension(mm)	: H220, B 190, D430
Weigth	: About 10 kg.

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DT 410

Compact equipment for drawn arc studwelding in accordance with DVS 0902

FIELD OF APPLICATION

Handy, heavy-duty studwelding equipment for universal use. Sturdy and compact; ideal for assembly work, since it only weighs 25 kg. Studwelding elements in accordance with DIN 32500 and DIN 32501; specially designed metal components made of alloy and non-alloy steel. Special concept for insulation and heat resistant work.

THE WELDING PISTOL

Ample possibilities for fitting out the welding pistol. Depending on the assignment, a dampened or undampened pistol is used that features columns, baseplate and ceramic holder, or columns, baseplate equipped for short-time welding, or a fixed, non-adjustable tube.

PLEASE NOTE:

Simple, reliable and service-friendly - optimum safety during welding by means of "instant shift" to current-free circuit on the machine in the case of operating faults - using LED display; thermally controlled fan.

TECHNICAL DATA:

Field of application	:.drawn arc.
Current source	:.transformer with rectifier.
Welding current	:.400 A.
Welding time	:.20-200 mS, infinitely variable
.Welding range	:.diameter 3- 8 mm..
Material	:.steel, stainless steel, heat-resistant steel.
Welding speed	:.depends on use; up to 20 studs/min..
Power connection	:.380 V, 50/60 Hz, 25 A.
Dimensions	:.195 x 265 x 390 (W x H x L).
Weight	:.25 kg

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DT 710

Compact stud welding unit for drawn arc stud welding BH 100/BH 10 according to DVS 0902

Applications

Handy, powerful stud welding unit for universal application, compact and robust, ideal for field use. Welding elements according to DIN 32500 and DIN 32501 and special metallic shaped parts of alloyed and unalloyed steel. As an option, the unit can be provided with an inert-gas control, so that no ferrule for welding is necessary.

Welding guns

Welding guns for specific applications. Depending on the particular application, damped or undamped guns with suitable ferrule support, inert-gas support or support for short-cycle welding and guns with or without automatic length compensation are used.

Features

Reliable, safe to operate and service-friendly, optimal safety when welding due to immediate isolation of the unit in the event of malfunction. Monitoring and indication of all important functions via LED displays. Digital display of preselected welding time, thermally controlled fan.

Technical data

Welding process	: Drawn-arc ignition
Power source	: Transformer/Rectifier
Welding current	: 690 A
Welding time	: 6-960 ms, infinite
Welding range	: Dm. 2-12 mm, M 3-MR 14
Material	: Steel, stainless steel, heat resisting steel
Welding sequence	: Depending on application up to 25 studs per minute
Dimensions	: 275 x 220 x 430 (W x H x L)
Power requirement	: 380 V, 50/60 Hz, 32 A
Weight	: 37 kg.

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DT 910

Compact stud welding unit for drawn arc stud welding BH 100/BH 10 according to DVS 0902

Applications

Handy, powerful stud welding unit for universal application, compact and robust, ideal for field use. Welding elements according to DIN 32500 and DIN 32501 and special metallic shaped parts of alloyed and unalloyed steel. As an option, the unit can be provided with an inert-gas control, so that no ferrule for welding is necessary.

Welding guns

Welding guns for specific applications. Depending on the particular application, damped or undamped guns with suitable ferrule support, inert-gas support or support for short-cycle welding and guns with or without automatic length compensation are used.

Features

Reliable, safe to operate and service-friendly, optimal safety when welding due to immediate isolation of the unit in the event of malfunction. Monitoring and indication of all important functions via LED displays. Digital display of preselected welding time, thermally controlled fan.

Technical data

Welding process	: Drawn-arc ignition
Power source	: Transformer/Rectifier
Welding current	: 900 A
Welding time	: 6-960 ms, infinite
Welding range	: Dm. 2-14 mm, M 3-MR 16
Material	: Steel, stainless steel, heat resisting steel
Welding sequence	: Depending on application up to 25 studs per minute
Dimensions	: 275 x 220 x 430 (W x H x L)
Power requirement	: 380 V, 50/60 Hz, 32 A
Weight: 39 kg.	

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DT 1200i – Inverter Power Source

Now includes Seahorse Corrosion Protection against humidity, moisture and dust.

The DT1200i product line is designed for use in harsh environments including construction shipbuilding, boiler manufacturing and equipment fabrication. Studhorse power sources weigh 80 pounds, feature a built-in circuit breaker, and provide 5-zones of thermal protection to make this machine ideal for companies and contractors using 400 ,480 or 575 Volts AC for primary power Designed for 1200A using 50 ft. 2/0 cable or 75 ft. of 4/0 cable.



Product Specifications are subject to change without notice. Visit the website for information on updates and changes. Additional information is available at www.dabotek.com

Benefits

- Lightweight, Portable
- Regulated Output
- Welds Wide Range of Sizes
- Reliable SCR Inverter
- Rugged Fiberglass Case
- • Pilot Current
- Kick Start
- After Burn
- Short-Circuit Protection
- High Power Efficiency
- 5-Zones of Thermal Protection

Features

- Drawn Arc Stud Welding at 1200 Amps
- Welds full-base Studs from 1/8" (3mm) to 3/4" (18mm)
- Complete systems available with gun and cables
- Digital Start/Stop replaces mechanical Contactor
- Bright, easy to read, panel-mounted digital display on DT1200i model
- Extra-thick skids on the bottom of the case for protection
- Step-less 0.05 to 1.00-second Time and Power Control
- DIGITAL METER - WELD CURRENT AND WELD TIME
- THERMOSTAT CONTROLLED VENTILATION
- **CIRCUIT BREAKER (POWER ON/OFF)**
- 400V, 480V, or 575V three-phase input voltage; 35/30/25A time-delay fusing



Product number: 93-60-1208

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DT 1200E

Compact manoeuvrable Drawn Arc equipment designed to weld up to M16 diameter studs. With its simple robust construction the DT1200E offers an economic and reliable method of fixing Mild Steel and Stainless Steel studs. Fast, accurate and easy to operate, the DT1200E gives you better weld results.

Designed and built to exacting standards and meets all required standards, the DT1200E is CE marked.

**Product number: SDT1200E-DA2 (with DA 2 welding gun)
SDT1200E-DA3 (with DA 3 welding gun)**



CONTROLLER FEATURES

- Robust and compact design housing all components in one cabinet.
 - Mounted on 4 wheels making the machine easily manoeuvrable (front 2 swivel wheels are fitted with brakes).
 - Soak tested components used. All systems undergo extensive durability tests.
 - Microcomputer controlled.
 - Infinitely adjustable welding current.
 - Constant current control.
 - Infinitely adjustable welding time.
 - Solid state switching.
 - Visual current and time display.
 - Current reporting procedure.
 - Thermostatically controlled air cooling.
 - Recessed front and back panels protect controls and weld sockets.
 - Twist and lock weld plugs and sockets.
 - Hand tool can use any UK and European chucking system.
 - Gun lift test facility.
 - Chuck saver circuit fitted.
 - Fitted with gas facility.
- Welds Short Cycle Drawn Arc.

DA2/DA3 HANDTOOL FEATURES

- Designed for lightness and balance.
- Comfortable to use, minimises operator fatigue.
- Made from impact resistant, high strength Verton.
- Accessories – Various accessories/attachments are available to solve specific problems.
- Extensions are available for both hand tool and earth cables.
- Damped with oil.

TECHNICAL SPECIFICATION	
Welding Stud Range	3mm – 14.6mm
Input	3ph. 400v 50Hz (other voltages available)
Fusing	65A
Max. KVA Rating	65KVA
Welding Current	200 – 1200 (10% cycle)
Welding Time	20 – 1500 (m/sec)
Welding Rate	20 – 3/min
No-load Voltage	95 Volt
Class Protection	IP23
Cooling Fan	
Transformer Insulation	Class H
Dimensions (L x W x H) (mm)	550 x 400 x 560
Weight	108 kg

Welding gun:	DA2	DA 3
Material	Verton	Verton
Welding Range	3mm – 16mm	3mm – 20mm
Stud Length - standard legs	100mm	100mm
extended legs	any length stud	any length stud
Cable Length	5 metres	5 metres
Cable Size	50mm	70mm
Weight (less cable)	1.9kg	1.9kg
Dimensions (L x W x H) (mm)	250 x 60 x 160	250 x 60 x 160



DA2 & DA3



DA4, DA5, DA6

DABOTEK Stud welding Systems is a specialist in the design, manufacture and supply of Stud welding Equipment and studs. Within our range of European built equipment we will have the system to suit your requirements.

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DT 1600E

Compact manoeuvrable Drawn Arc equipment designed to weld up to M20 diameter studs. With its simple robust construction the DT1600E offers an economic and reliable method of fixing Mild Steel and Stainless Steel studs. Fast, accurate and easy to operate, the DT1600E gives you better weld results.

Designed and built to exacting standards and meets all required standards, the DT1600E is CE marked.



**Product number: SDT1600E-DA2 (with DA 2 welding gun)
SDT1600E-DA3 (with DA 3 welding gun)**

CONTROLLER FEATURES

- Robust and compact design housing all components in one cabinet.
 - Mounted on 4 wheels making the machine easily manoeuvrable (front 2 swivel wheels are fitted with brakes).
 - Soak tested components used. All systems undergo extensive durability tests.
 - Microcomputer controlled.
 - Infinitely adjustable welding current.
 - Constant current control.
 - Infinitely adjustable welding time.
 - Solid state switching.
 - Visual current and time display.
 - Current reporting procedure.
 - Thermostatically controlled air cooling.
 - Recessed front and back panels protect controls and weld sockets.
 - Twist and lock weld plugs and sockets.
 - Hand tool can use any UK and European chucking system.
 - Gun lift test facility.
 - Chuck saver circuit fitted.
 - Fitted with gas facility.
- Welds Short Cycle Drawn Arc.

DA2/DA3 HANDTOOL FEATURES

- Designed for lightness and balance.
- Comfortable to use, minimises operator fatigue.
- Made from impact resistant, high strength Verton.
- Accessories – Various accessories/attachments are available to solve specific problems.
- Extensions are available for both hand tool and earth cables.
- Damped with oil.

TECHNICAL SPECIFICATION	
Welding Stud Range	3mm – 20,0mm
Input	3ph. 400v 50Hz (other voltages available)
Fusing	65A
Max. KVA Rating	65KVA
Welding Current	200 – 1600 (10% cycle)
Welding Time	20 – 1500 (m/sec)
Welding Rate	20 – 4/min
No-load Voltage	95 Volt
Class Protection	IP23
Cooling Fan	
Transformer Insulation	Class H
Dimensions (L x W x H) (mm)	810 x 470 x 620
Weight	151 kg

Welding gun:	DA2	DA 3
Material	Verton	Verton
Welding Range	3mm – 16mm	3mm – 20mm
Stud Length -		
standard legs	100mm	100mm
extended legs	any length stud	any length stud
Cable Length	5 metres	5 metres
Cable Size	50mm	70mm
Weight (less cable)	1.9kg	1.9kg
Dimensions (L x W x H) (mm)	250 x 60 x 160	250 x 60 x 160



DA2 & DA3



DA4, DA5, DA6

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DT 2000E

Compact manoeuvrable Drawn Arc equipment designed to weld up to 22 mm diameter studs. With its simple robust construction the DT2000E offers an economic and reliable method of fixing Mild Steel and Stainless Steel studs. Fast, accurate and easy to operate, the DT2000E gives you better weld results.

Designed and built to exacting standards and meets all required standards, the DT2000E is CE marked.



Product number: SDT2000E-DA3 (with DA3 welding gun)
SDT2000E-DA4 (with DA4 welding gun)
SDT2000E-DA5 (with DA5 welding gun)

CONTROLLER FEATURES

- Robust and compact design housing all components in one cabinet.
 - Mounted on 4 wheels making the machine easily manoeuvrable (front 2 swivel wheels are fitted with brakes).
 - Soak tested components used. All systems undergo extensive durability tests.
 - Microcomputer controlled.
 - Infinitely adjustable welding current.
 - Constant current control.
 - Infinitely adjustable welding time.
 - Solid state switching.
 - Visual current and time display.
 - Current reporting procedure.
 - Thermostatically controlled air cooling.
 - Recessed front and back panels protect controls and weld sockets.
 - Twist and lock weld plugs and sockets.
 - Hand tool can use any UK and European chucking system.
 - Gun lift test facility.
 - Chuck saver circuit fitted.
 - Fitted with gas facility.
- Welds Short Cycle Drawn Arc.

DA2/DA3 HANDTOOL FEATURES

- Designed for lightness and balance.
- Comfortable to use, minimises operator fatigue.
- Made from impact resistant, high strength Verton.
- Accessories – Various accessories/attachments are available to solve specific problems.
- Extensions are available for both hand tool and earth cables.
- Damped with oil.

TECHNICAL SPECIFICATION	
Welding Stud Range	3mm – 22mm
Input	3ph. 400v 50Hz (other voltages available)
Fusing	100A
Max. KVA Rating	85KVA
Welding Current	200 – 2000 (10% cycle)
Welding Time	50 – 1500 (m/sec)
Welding Rate	30 – 4/min
No-load Voltage	95 Volt
Class Protection	IP23
Cooling Fan	
Transformer Insulation	Class H
Dimensions (L x W x H) (mm)	1000 x 610 x 840
Weight	313 kg

Welding gun:	DA2	DA4 , DA5, DA6
Material	Verton	Verton
Welding Range Stud Length - standard legs	3mm – 16mm	3mm – 20mm
extended legs	100mm	100mm
	any length stud	any length stud
Cable Length	5 metres	5 metres
Cable Size	50mm	70mm ² - DA4 95mm ² - DA5 120mm ² - DA6
Weight (less cable)	1.9kg	1.9kg
Dimensions (L x W x H) (mm)	250 x 60 x 160	250 x 60 x 160



DA2 & DA3



DA4, DA5, DA6

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DT 2400E

Compact manoeuvrable Drawn Arc equipment designed to weld up to 25 mm diameter studs. With its simple robust construction the DT2400E offers an economic and reliable method of fixing Mild Steel and Stainless Steel studs. Fast, accurate and easy to operate, the DT2400E gives you better weld results.

Designed and built to exacting standards and meets all required standards, the DT2400E is CE marked.

**Product number: SDT2400E-DA4 (with DA4 welding gun)
SDT2400E-DA5 (with DA5 welding gun)
SDT2400E-DA6 (with DA6 welding gun)**



CONTROLLER FEATURES

- Robust and compact design housing all components in one cabinet.
 - Mounted on 4 wheels making the machine easily manoeuvrable (front 2 swivel wheels are fitted with brakes).
 - Soak tested components used. All systems undergo extensive durability tests.
 - Microcomputer controlled.
 - Infinitely adjustable welding current.
 - Constant current control.
 - Infinitely adjustable welding time.
 - Solid state switching.
 - Visual current and time display.
 - Current reporting procedure.
 - Thermostatically controlled air cooling.
 - Recessed front and back panels protect controls and weld sockets.
 - Twist and lock weld plugs and sockets.
 - Hand tool can use any UK and European chucking system.
 - Gun lift test facility.
 - Chuck saver circuit fitted.
 - Fitted with gas facility.
- Welds Short Cycle Drawn Arc.

DA2/DA3 HANDTOOL FEATURES

- Designed for lightness and balance.
- Comfortable to use, minimises operator fatigue.
- Made from impact resistant, high strength Verton.
- Accessories – Various accessories/attachments are available to solve specific problems.
- Extensions are available for both hand tool and earth cables.
- Damped with oil.

TECHNICAL SPECIFICATION	
Welding Stud Range	3mm – 25mm
Input	3ph. 400v 50Hz (other voltages available)
Fusing	125A
Max. KVA Rating	85KVA
Welding Current	200 – 2400 (10% cycle)
Welding Time	50 – 1500 (m/sec)
Welding Rate	30 – 6/min
No-load Voltage	95 Volt
Class Protection	IP23
Cooling Fan	
Transformer Insulation	Class H
Dimensions (L x W x H) (mm)	1000 x 610 x 840
Weight	385 kg

Welding gun:	DA3	DA4 , DA5, DA6
Material	Verton	Verton
Welding Range Stud Length -	3mm – 20mm	6mm – 25mm
standard legs	100mm	100mm
extended legs	any length stud	any length stud
Cable Length	5 metres	5 metres
Cable Size	70mm	70mm ² - DA4 95mm ² - DA5 120mm ² - DA6
Weight (less cable)	1.9kg	2,0kg
Dimensions (L x W x H) (mm)	250 x 60 x 160	250 x 70 x 260



DA2 & DA3

DA4 & DA5 & DA6

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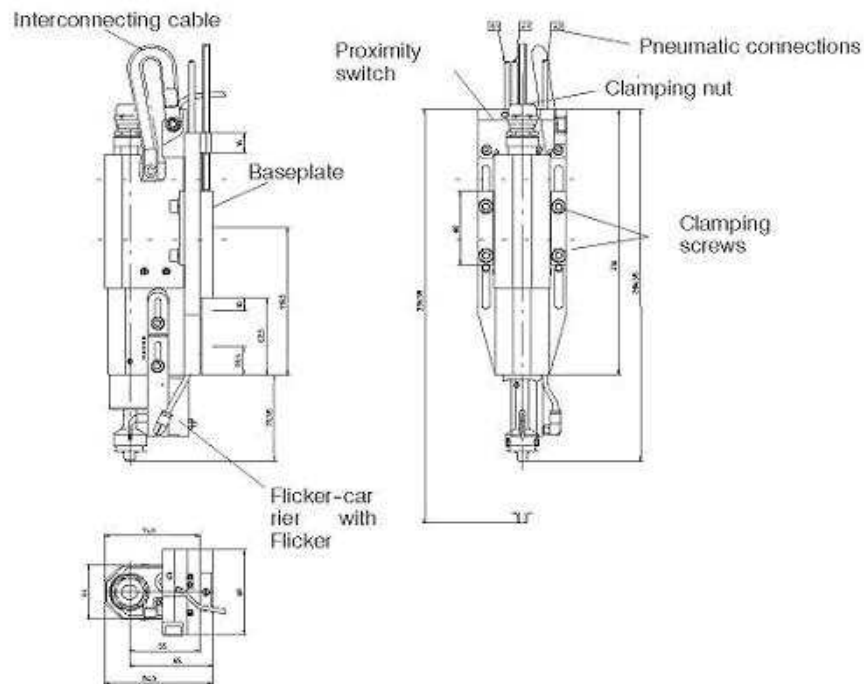
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Welding head SIK 2

The welding head SIK2 can be used in machines and devices with automatic or semi-automatic stud feeding. It is a simple and strong construction.



Technical data

Weight: 1.5 kg without power cable
Guide: shaft hardened and grinded
Guidelement: 2 bearing bushes free from clearance
Drive: pneumatic cylinder
Welding stroke: 50mm

Technical changes reserved

Stud welding gun HP-TSK310



Application range of the welding gun HP-TSK310

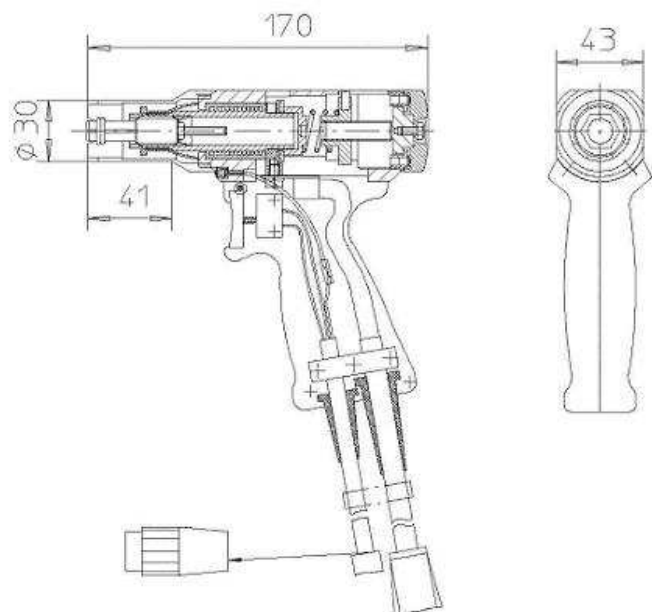
The welding gun HP-TSK310 is for connection to the following capacitor discharge welding appliances:

BS304 / 306 / 308 / 310 / 318, TS304 / 306 / 308 / 310 / 318,
BS304A / 306A / 308A / 310A / 318A with program PLC 0

Technical data

The gun is delivered with tube and ring with foot.

Stud welding procedure:	contact
Stud diameter:	2,5 -10mm
Mass:	1,5 kg
Pitch circle foot:	34mm
Guide:	shaft hardened and grinded bearing bush
Guidelement:	
Power cable:	3 m, 25mm ²



Technical changes reserved

Stud welding gun HP-TSG310



Application range of the welding gun HP-TSG310

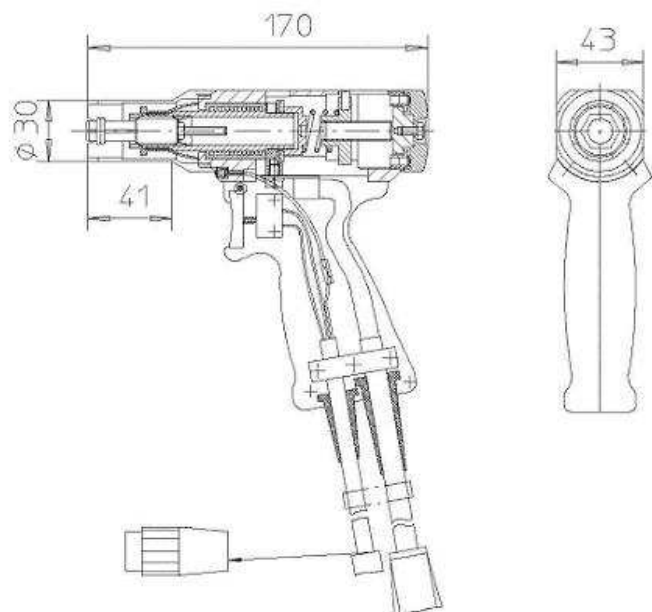
The welding gun HP-TSG310 is for connection to the following capacitor discharge welding appliances:

BS304 / 306 / 308 / 310 / 318, TS304 / 306 / 308 / 310 / 318,
BS304A / 306A / 308A / 310A / 318A with program PLC 0

Technical data

The gun is delivered with tube and ring with foot.

Stud welding procedure:	gap
Stud diameter:	2,5 -10mm
Mass:	1,5 kg
Pitch circle foot:	34mm
Guide:	shaft hardened and grinded bearing bush
Guidelement:	
Power cable:	3 m, 25mm ²



Technical changes reserved

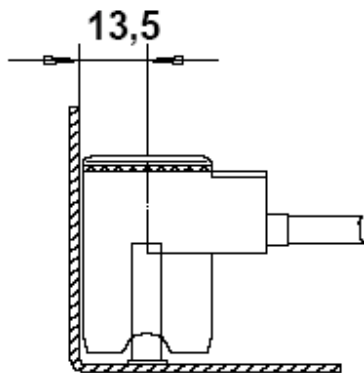
Welding head Mini HSK

Welding head to weld with a minimum stud distance to a wall and minimum gap of the workpiece.



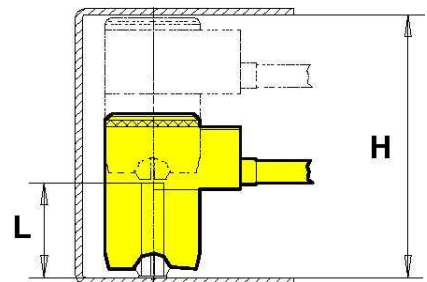
Technical data

Connection:	to all BS / TS stud welding appliances
Stud diameter:	M3 - M8 x 30mm
Power cable grip:	3m 25mm ²
Power cable MHSK:	1m 16mm ²



$$H = 53 + L$$

L= Stud length
H= Gap



Technical changes reserved

Inexpensive CNC machine

The entry into the world of automation

- Can be equipped with different stud welding heads.
- Complete machine control system integrated in the machine body.
- Axis drives with low wearing AC-servomotors.
- Simple programming and operation.
- Fully enclosed machine according to machinery directive 98/37/EC.

Applications:

All stud welding methods.

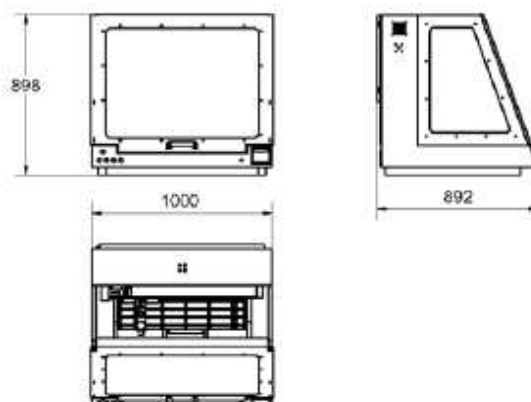
Design features:

- The machine can be equipped with different stud welding heads, power supply units and stud feeding systems.
- Positioning control with PLC.
- Y-axis electrically insulated T-slot table, travel 300 mm.
- X-axis portal (welding head); travel 500 mm.
- Table machine in plate steel construction
- optional with stand.



Technical data:

- | | |
|---|--|
| - Work range X-/Y-axis: | 500 x 300 mm |
| - Work table size: | 710 x 360 mm |
| - Travel speed | 0,4 m/s |
| - Positioning accuracy of welded studs: | ±0,15 mm depending on the welding head |
| - Repeatability: | ±0,1 mm |
| - Air supply: | 6 bar filtered, not lubricated |
| - Power supply: | Tip ignition 230V 50 Hz
Drawn arc 3x 400V 50 Hz ±10 % |
| - Drive X-/Y-axis: | AC-servomotors |
| - Controller and drives: | Omron |
| - Prepared for operation of an optional pneumatic Z-axis (valves available) | |



Technical changes reserved

CNC cross X-Y table 500 mm × 700 mm with servomotors

Description:

It is possible to get on the machine all pneumatic strokes, welding heads and stud feeding systems.



Technical data:

Clamping surface: 1260 mm × 800 mm
T-slot board

Working area X-axis: 700 mm
Working area Y-axis: 500 mm
Apurtenance axis: ball screw,
servomotors

Pneumatic Z axis

Positionining speed

X-axis: v max. = 0,3 m / sek.
Y-axis: v max. = 0,3 m / sek.

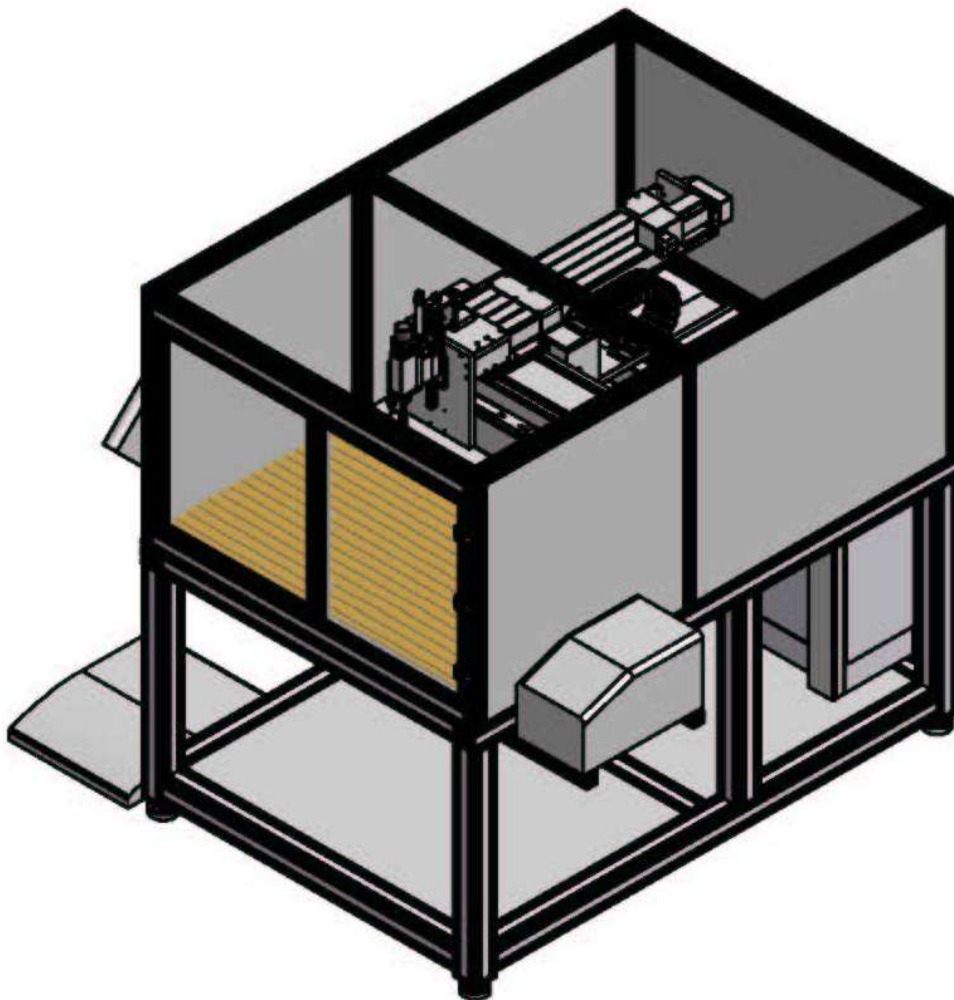
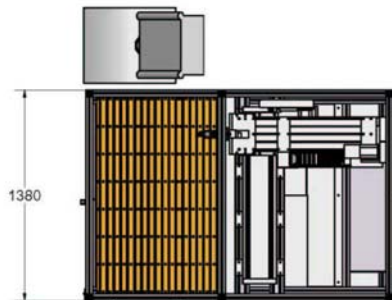
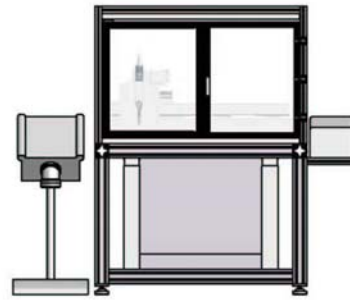
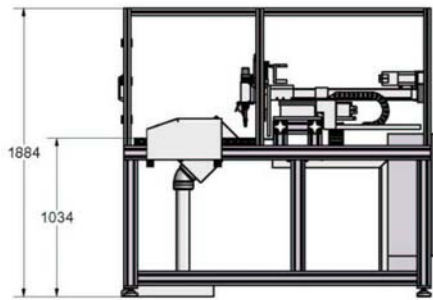
**Repeating accuracy
mechanical components:** ± 0,05 mm

Control: Siemens S7

Safety: With full housing is the machine conform
with EU-directive on machinery
98/37/EG (CE and so on)
Manuel opening folding door
Optional with light barrier or
pneumatic driven door

Technical changes reserved

**CNC cross X-Y table 500 mm × 700 mm
with servomotors**



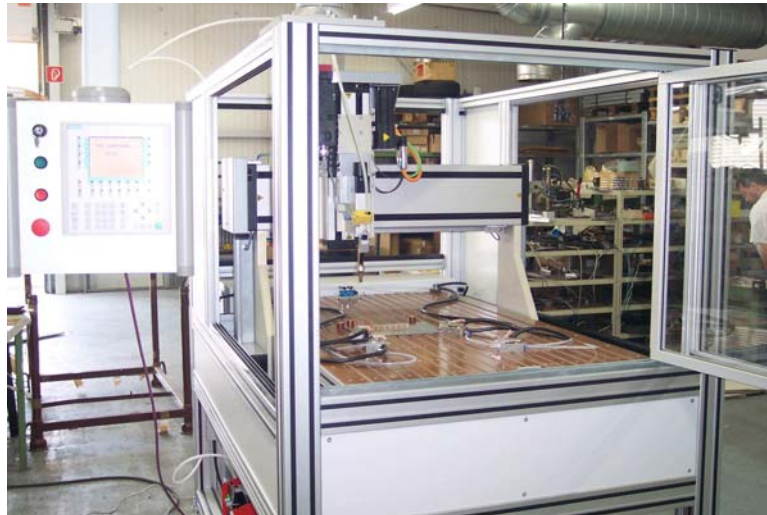
Technical changes reserved

CNC X-Y table 600mm x 1000mm

with servomotors

Description:

It is possible to get on the machine all pneumatic strokes, welding heads and stud feeding systems.

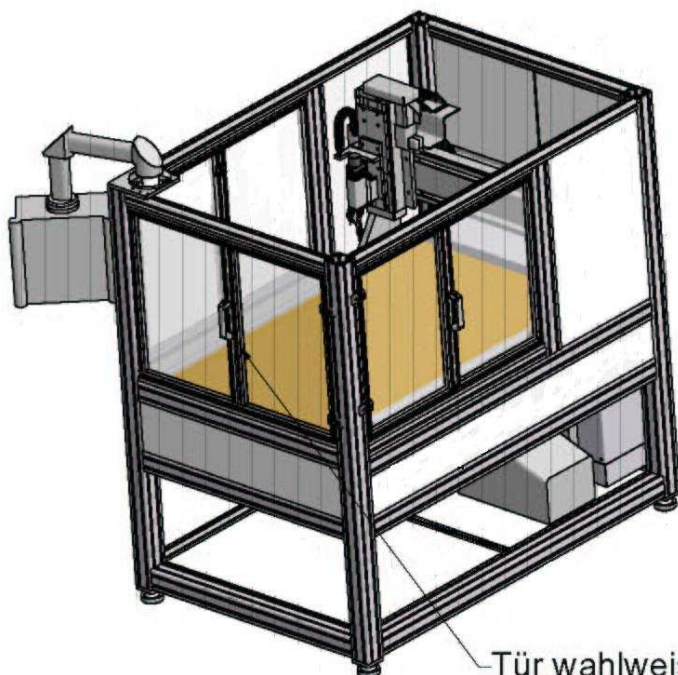


Technical data:

Clamping surface:	900 mm × 1100 mm T-slot board
Working area X-axis:	600 mm
Working area Y-axis:	1000 mm
Z-axis:	200 mm (more than 1 Z-axis possible)
Apurtenance axis:	ball screw, servomotors
Positionining speed	
X-axis:	v max. = 0,3 m / sek.
Y-axis:	v max. = 0,3 m / sek.
Repeating accuracy mechanical components:	± 0,05 mm
Control:	Siemens S7
Safety:	With full housing is the machine conform with EU-directive on machinery 98/37/EG (CE and so on) Manuel opening folding door Optional with light barrier or pneumatic driven door

Technical changes reserved

CNC X-Y table 600mm x 1000mm with servomotors



Tür wahlweise rechts,
links oder vorne

**Door optional right side,
left side or in front**



Technical changes reserved