



ELECTRO TECHNO TAK
(KNOWLEDGE-BASED CO)

DESIGN & PRODUCTION OF WELDING MACHINERY

Spot and Projection Welding Machines

A Lasting Legacy in the Welding Industry

Since 1977





Page Number

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Spot Welding Machine

HDS Series

(HDS-5002 / HDS-5002-D)



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S-L450 Series

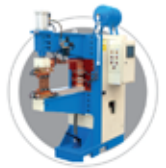
(S-1606-L450) (S-2506-L450)
(S-3206-L450)



14

S-L770 Series

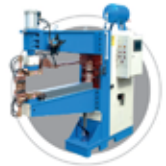
(S-1606-L770) (S-2506-L770)
(S-3206-L770)



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S-L1100 Series

(S-2506-L1100)(S-3206-L1100)



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ES-1606 Series

(ES-1606/1) (ES-1606/2)
(ES-1606/3) (ES-1606/4)



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ES-803 Series

(ES-803/2) (ES-803/3)
(ES-803/4)



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SP Series

(SP-503 D/A-L350)
(SP-503 D/A-L700)
(SP-503 D/A-L1000)



43

TS Series

(TS-352/TS-353)



48

AS Series

(AS-1002) (AS-501/AS-502)
(AS-5)(AS-352)





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Design and Production of Welding Machinery

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Spot and Projection
Welding Machines
HDS Series



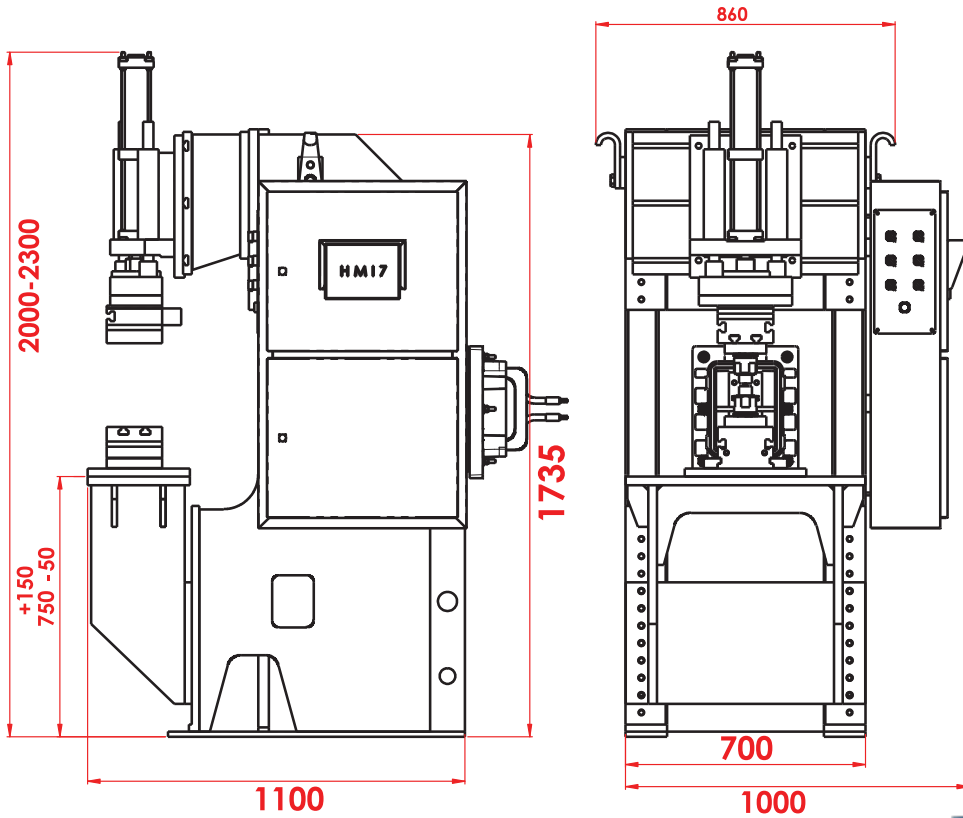
HDS-5002 ▲

▲ HDS-5002-D

Features

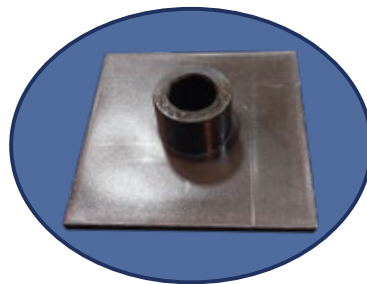
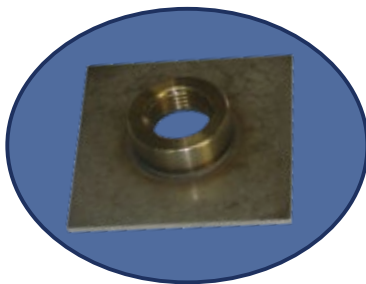
- 1) Suitable for spot welding and simultaneous multi-point welding (projection) on various thick steel and alloy parts, such as radiator tees, stainless pump blades, water tank bushings, large nuts, and etc.
- 2) Powerful and high working efficiency, suitable for three-shift operations.
- 3) Ability to welding two jaws simultaneously or separately to reduce electricity consumption.
- 4) Ability to running two different programs at the same time for welding different thicknesses.
- 5) Suitable for welding various alloys including steel, stainless steel, galvanized and super alloys.
- 6) Movable and adjustable upper and lower console to create the required distance between the jaws and coordination with the work desk.
- 7) Equipped with hydraulic-pneumatic jacks with a stroke of 150 mm.
- 8) CC/CV control panel with fault tracking capability from the user interface panel.
- 9) Ability to install various fixtures and indexing tables on the device.

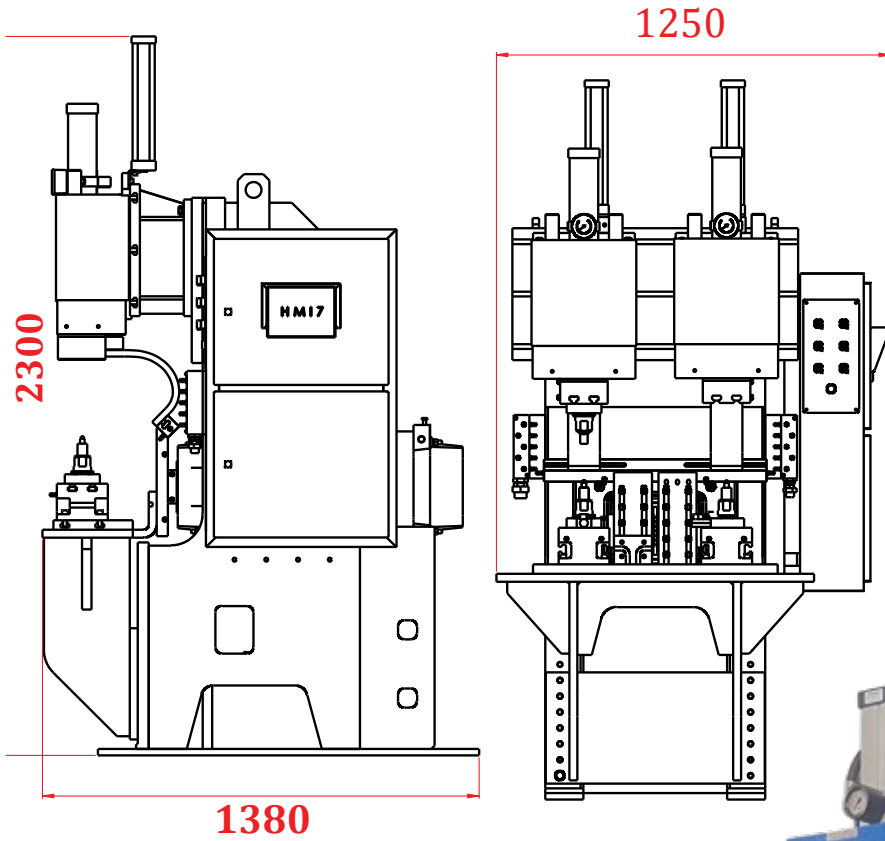




Spot and Projection Welding Machine

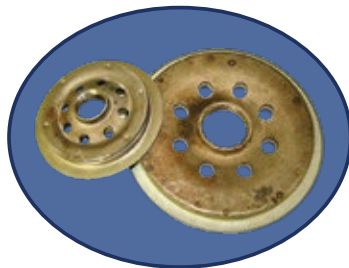
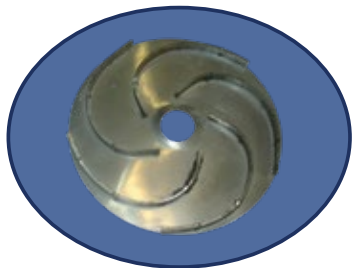
HDS-5002





Spot and Projection Welding Machine

HDS-5002-D





| Technical Data | HDS-5002-D | HDS-5002 |
|--|-----------------|-----------------|
| Power at 50% E.D KVA | 500 | 500 |
| Max.welding Power at 33% E.D (KVA) | – | – |
| Input voltage (V) | 380/1ph | 380/1ph |
| Secondary no-load voltage (V) | 15.8 | 15.8 |
| Current control | SCR | SCR |
| Electronic control | Digital | Digital |
| Mover system | Hydro-pneumatic | Hydro-pneumatic |
| Max electrode force (daN) with 6 bar | 3000 | 3000 |
| Sheet dimation (mm) | 150*150 | 150*150 |
| Jack stroke (mm) | 150 | 150 |
| Arm & electrode holder diameter (Ømm) | – | – |
| Throat depth (mm) | 250 | 250 |
| Arms gap (mm) | 350+300 | 350+600 |
| Welding capacity of Mild steel in mass production (mm) | 6+6 | 6+6 |
| Welding capacity of Light metals in mass production (mm) | 2+2 | 2+2 |
| Welding capacity of Mild steel rod in mass production (mm) | 20+20 | 20+20 |
| Compressed air supply (bar) | 5 | 5 |
| Cooling water consumption (Lit/Min) | 16 | 16 |
| Overall Dimation (LxWxH) (cm) | L: 110 | L: 130 |
| | W: 122 | W: 130 |
| | H: 200 | H: 220 |
| Gross Weight (Kg) | 1700 | 1100 |





Control Panel HDS-5002-D / HDS-5002 Specifications

| | |
|--|--------------------------|
| TC-21 Electronic Control | Digital |
| Secondary current control | Toroid |
| Welding mode control | CC/CV modes |
| Pulsation | Single/pulse |
| Capability to increase current for "Dressing" mode | Step Up/Line |
| Equipped with dressing mode | Step Dressing |
| Ability to display primary current | CT (current transformer) |
| Air flow switch installation capability | Available upon request |
| Water flow switch installation capability | Available upon request |
| Air pressure switch installation capability | Available upon request |
| Display of primary voltage for transformer and secondary voltage | Available upon request |
| Control of inputs and outputs from the panel | Available |
| Display of active/reactive power consumption | Available |
| Input panel | HMI |
| Easy-to-use | Available |
| Installation of commonly used switches such as, Fault, Reset and Dress | Available upon request |
| Alarm function | Available |
| Menu in both Farsi and English | Available |
| The possibility of tracking device faults from the user panel | Available |





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Design and Production of Welding Machinery

A Lasting Legacy in the Welding Industry



Spot and Projection
Welding Machines
S-L450 Series



S-1606-L450
S-2506-L450
S-3206-L450

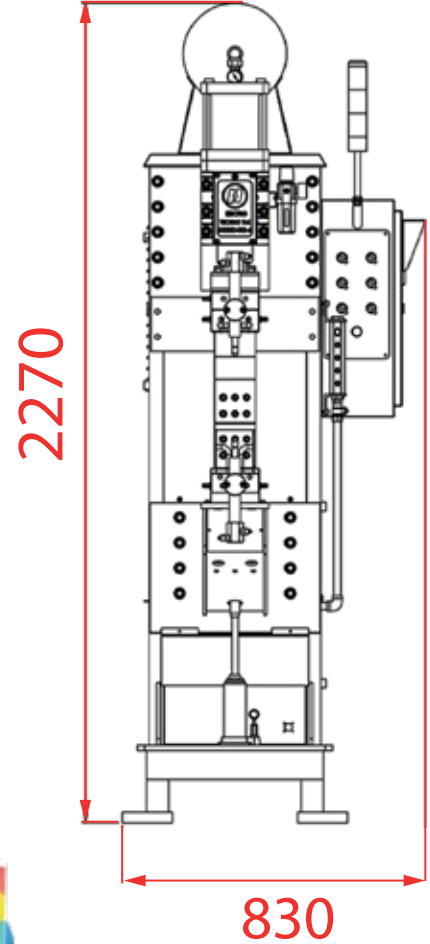
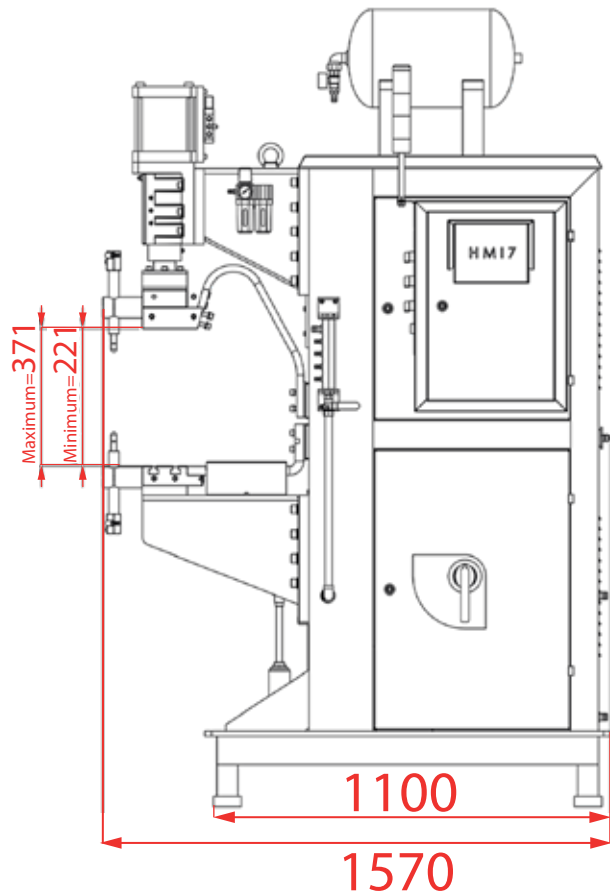


▲ Spot and Projection Welding Machine

Features

- 1) Powerful transformer with high efficiency and long service life.
- 2) Suitable for three shifts of work.
- 3) Smart control panel with fault diagnosis capability from the user interface.
- 4) Suitable for welding various thick steel and alloy components.
- 5) Adjustable lower console for creating the required distance between the jaws and aligning with the workbench.

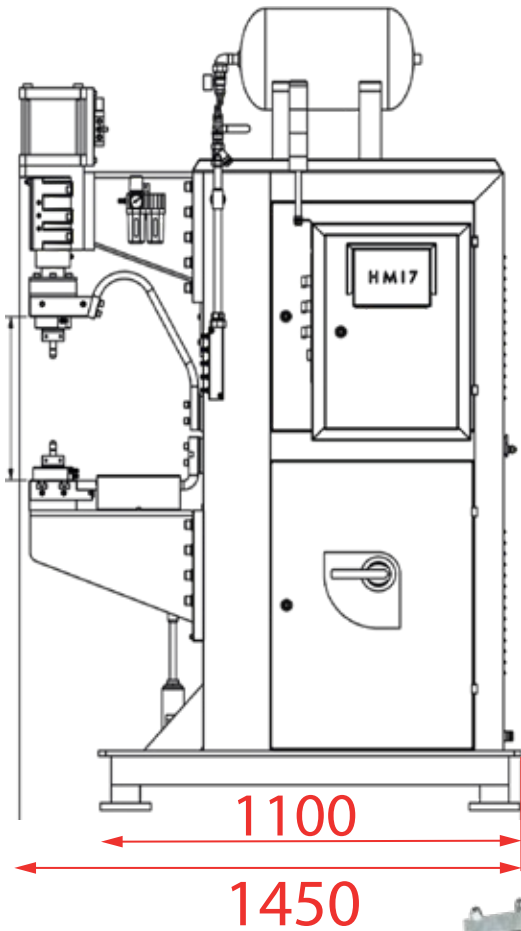




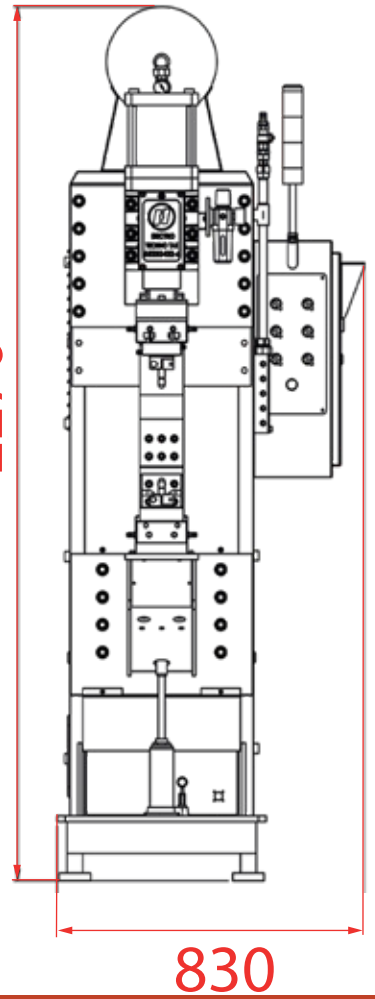
Type: 1

Equipped with an arm
soldering iron and brass T-plate





2270



Type: 2

Equipped with a brass
T-plate



| Technical Data | S-1606 L450 | S-2506 L450 | S-3206 L450 |
|--|-------------------------------|------------------------|------------------------|
| Power at 50% E.D(KVA) | 160 | 250 | 320 |
| Max.welding POWER (KVA) | 220 | 300 | 400 |
| Input Voltage (V) | 380 / 1ph | 380 / 1ph | 380 / 1ph |
| Secondary no -load Voltage (V) | 10.6 | 12.5 | 13.5 |
| OVERHEAT | OK | OK | OK |
| Minimum water flow rate (lit/min) | 8 | 8 | 8 |
| Jack stroke (mm) | 100 | 100 | 100 |
| Max electrode force (dan) with 6 bar | 500 | 1000 | 1000 |
| Dimensions of the T desk (mm) | 130 * 130 | 130 * 130 | 130 * 130 |
| Arm&electro de holder diameter (mm) | 60 (30) | 60 (30) | 60 (30) |
| Throat depth (mm) | 450 + 60 | 450 + 60 | 450 + 60 |
| Diameter of electrode (mm) | 16 | 16 | 16 |
| Arms gap (mm) | Tip1: 220~365 / Tip2: 310~425 | | |
| Maximum normal steel welding rate (mm) | 2 + 2 | 3 + 3 | 4 + 4 |
| Unit Control | Digital | Digital | Digital |
| Secondary Current control | Toroid | Toroid | Toroid |
| Welding Control mode | CC/ CV | CC/ CV | CC/ CV |
| PULSATION | OK | OK | OK |
| Dressing method | STEP UP /LINE | STEP UP /LINE | STEP UP /LINE |
| Dress mod | Step dress | Step dress | Step dress |
| Primary current monitoring / feed back | CT | CT | CT |
| Proportional valve | Available upon request | Available upon request | Available upon request |
| Primary / secondary voltage monitoring | OK | OK | OK |
| Input / output check on HMI | OK | OK | OK |
| Active/ reactive current monitoring | OK | OK | OK |
| User panel | HMI Key | HMI Key | HMI Key |
| User friendly | OK | OK | OK |
| Persian and English menu | OK | OK | OK |
| Alarm light | OK | OK | OK |
| Weld / No weld key | OK | OK | OK |
| Reset key | OK | OK | OK |
| Reset counter on HMI | OK | OK | OK |
| Emergency stop | Available upon request | Available upon request | Available upon request |
| Key to select pedal or manual mod | Available upon request | Available upon request | Available upon request |
| Alarm light for Dress or Exchange and ... mod | OK | OK | OK |
| dress mod with parallel valve and separate regulator | Available upon request | Available upon request | Available upon request |

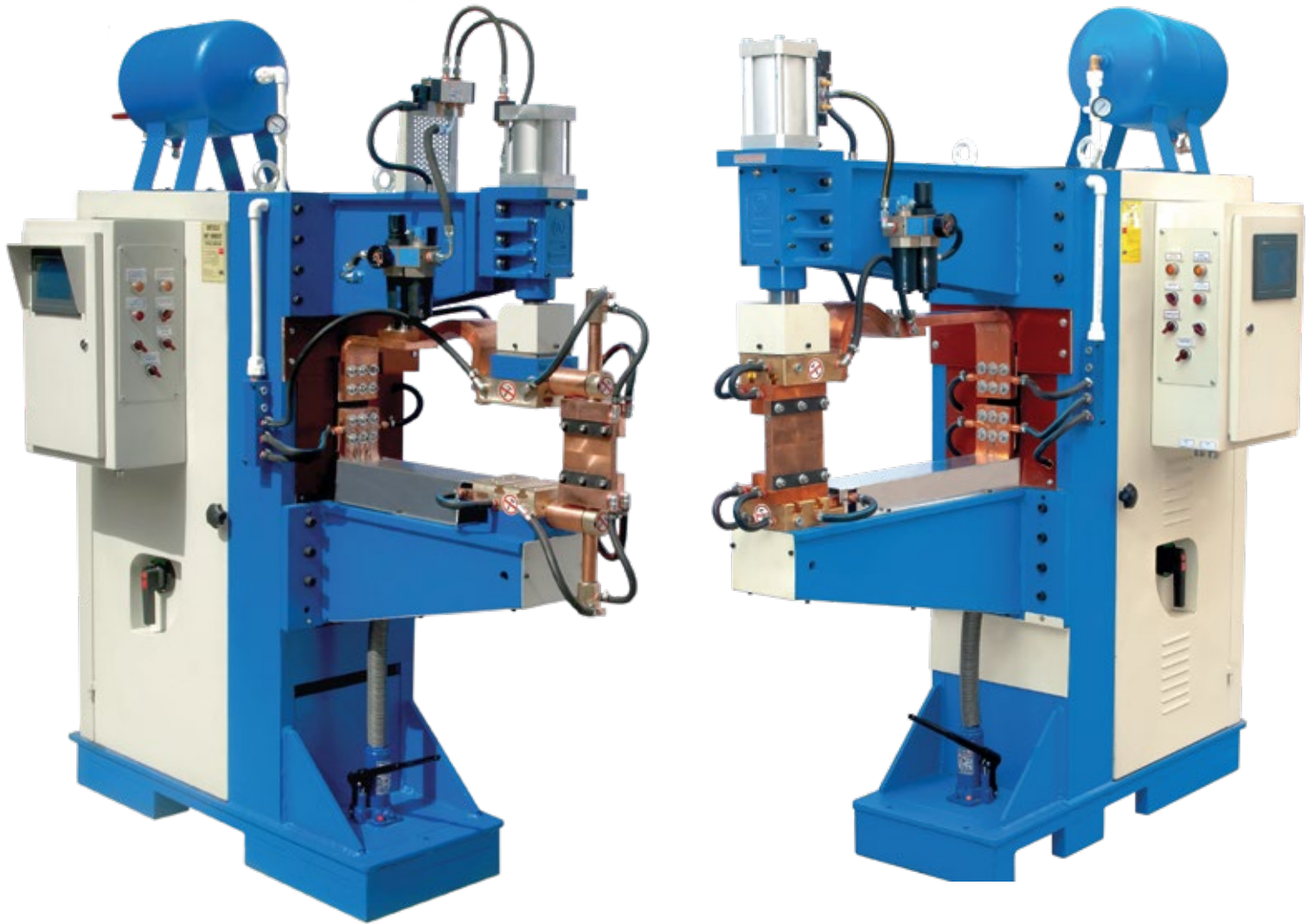




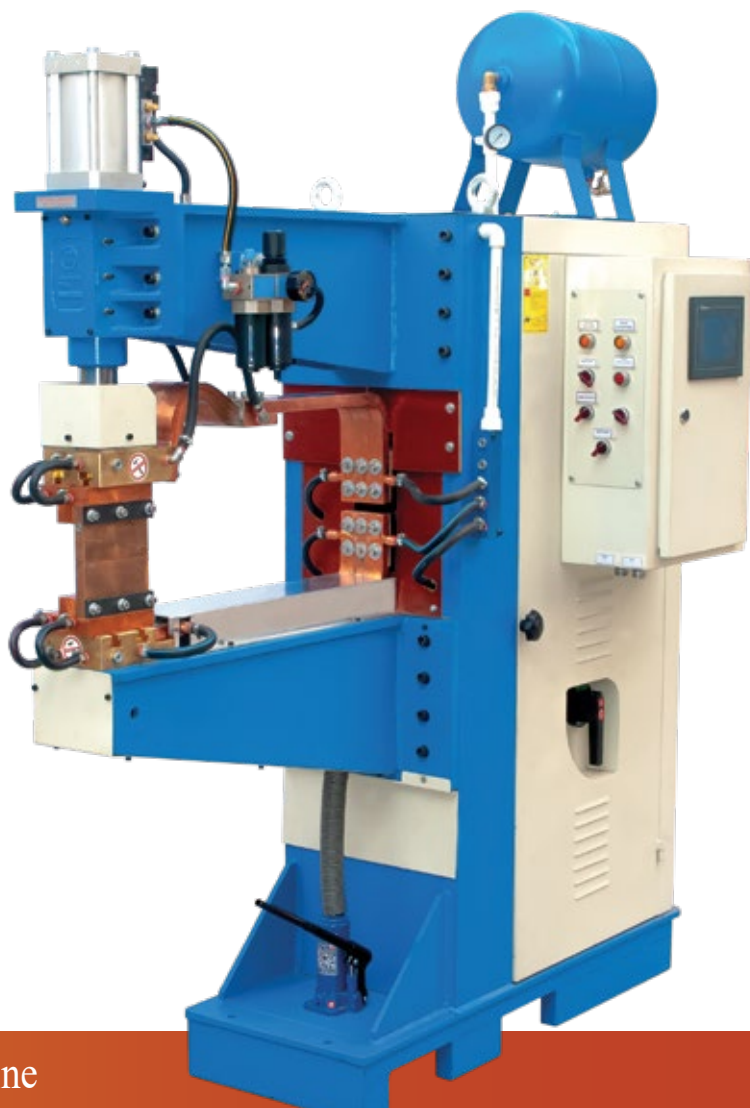
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Spot and Projection
Welding Machines
S-L770 Series



S-1606-L770

S-2506-L770

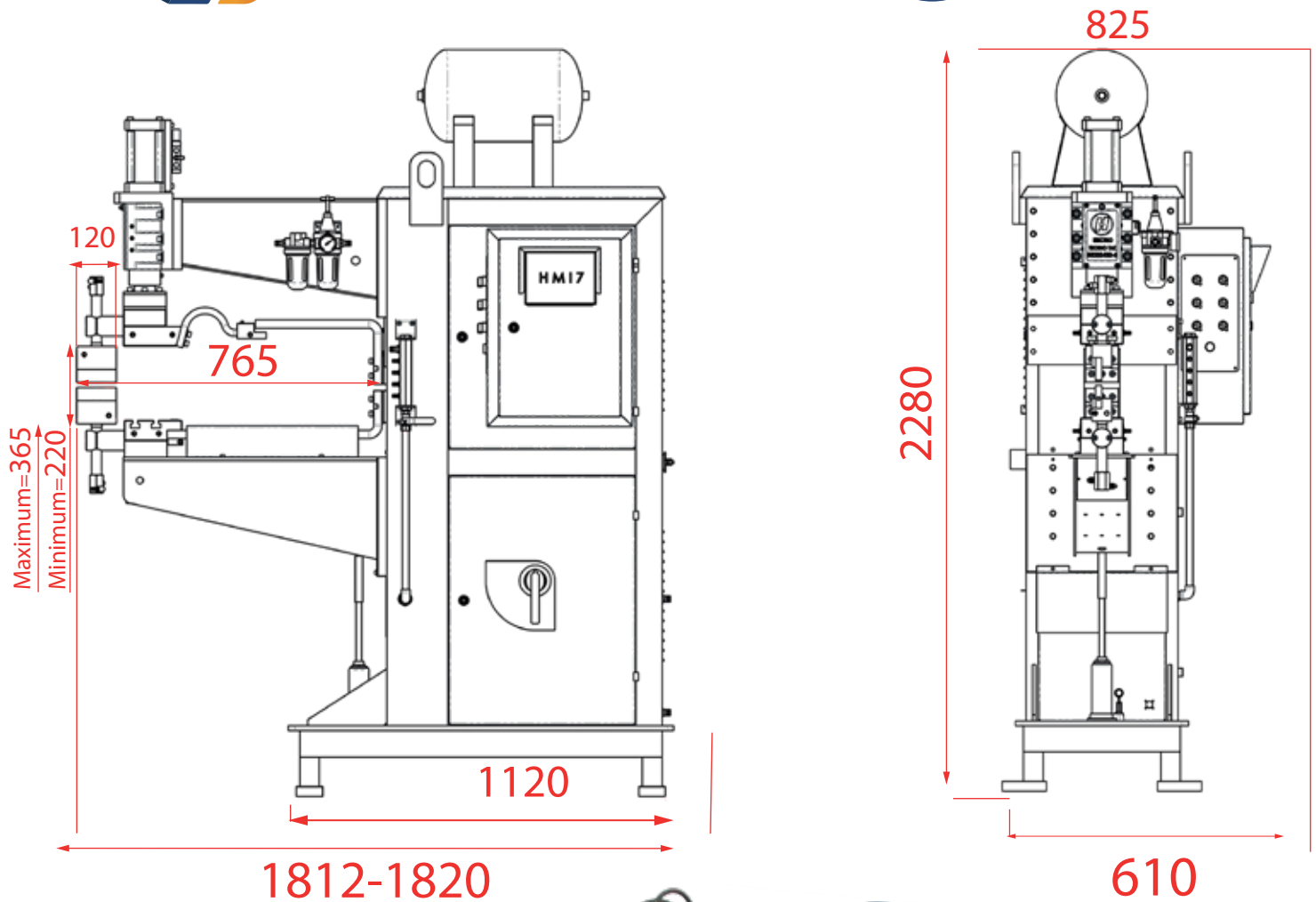
S-3206-L770

▲ Spot and Projection Welding Machine

Features

- 1) Suitable for high-speed welding of various condensers.
- 2) Suitable for three-shift operation.
- 3) Smart control panel with fault diagnosis capability from the user interface.
- 4) Powerful transformer with high efficiency and long service life.
- 5) Adjustable lower console to create the necessary distance between the jaws and align with the work table.

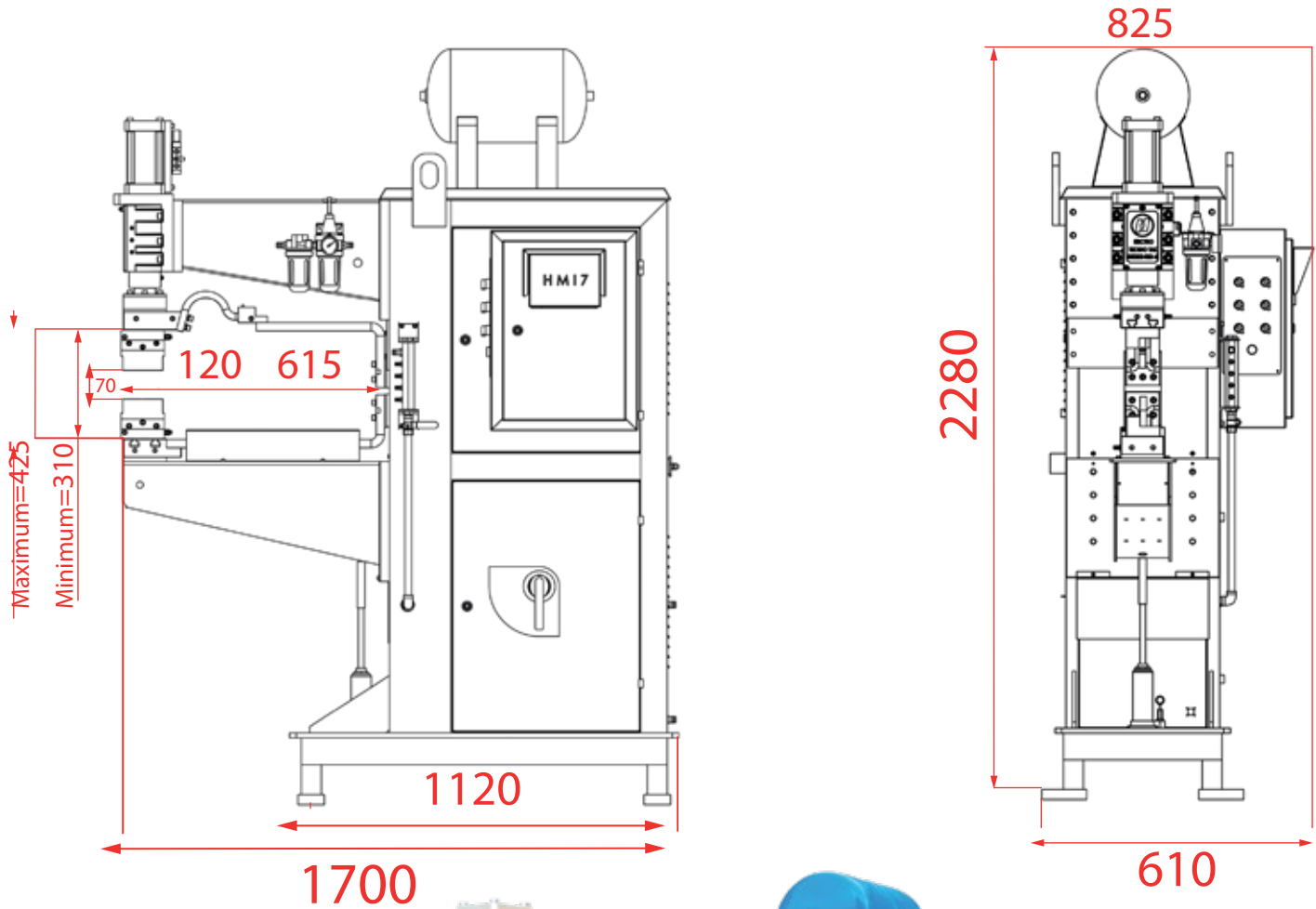




Type: 1

Equipped with an arm
soldering iron, holder, and
blade electrode and brass
T-shaped plate





Type: 2

Equipped with a holder
and blade electrode brass
T-shaped plate





| Technical Data | S-1606 L770 | S-2506 L770 | S-3206 L770 |
|--|-------------------------------|------------------------|------------------------|
| Power at 50% E.D (KVA) | 160 | 250 | 320 |
| Max.welding POWER (KVA) | 220 | 300 | 400 |
| Input Voltage (V) | 380 / 1ph | 380 / 1ph | 380 / 1ph |
| Secondary no -load Voltage (V) | 12.5 | 13.5 | 14.6 |
| OVERHEAT | OK | OK | OK |
| | 8 | 8 | 8 |
| Jack stroke (mm) | 100 | 100 | 100 |
| Max electrode force (dan) with 6 bar | 500 | 500 | 500 |
| Dimensions of the T desk (mm) | 130 * 130 | 130 * 130 | 130 * 130 |
| Arm&electro de holder diameter (mm) ☉ Type 1 | 60 (30) | 60 (30) | 60 (30) |
| Throat depth (mm) | 770 | 770 | 770 |
| Diameter of electrode (mm) | 120 | 150 | 150 |
| Arms gap (mm) | Tip1: 220~365 / Tip2: 310~425 | | |
| Maximum normal steel welding rate (mm) | 1.5 + 1.5 | 2 + 2 | 3 + 3 |
| Unit Control | Digital | Digital | Digital |
| Secondary Current control | Toroid | Toroid | Toroid |
| Welding Control mode | CC / CV | CC / CV | CC / CV |
| PULSATION | OK | OK | OK |
| Dressing metod | STEP UP/ LINE | STEP UP/ LINE | STEP UP/ LINE |
| Dress mod | Step dress | Step dress | Step dress |
| Primery current monitoing / feed back | CT | CT | CT |
| Proportional valve | Available upon request | Available upon request | Available upon request |
| Primery / secondry vohag monitonig | OK | OK | OK |
| Input / output check on HMI | OK | OK | OK |
| Active / reactive current monitonig | OK | OK | OK |
| User panel | HMI Key | HMI Key | HMI Key |
| User fri endly | OK | OK | OK |
| Persian and English menu | OK | OK | OK |
| Alarm light | OK | OK | OK |
| Weld / No weld key | OK | OK | OK |
| Reset key | OK | OK | OK |
| Reset counter on HMI | OK | OK | OK |
| Emergency stop | Available upon request | Available upon request | Available upon request |
| Key to select pedal or manual mod | Available upon request | Available upon request | Available upon request |
| Alarm light for Dress or Exchange and ... mod | OK | OK | OK |
| dress mod with parallel valve and separate regalator | Available upon request | Available upon request | Available upon request |

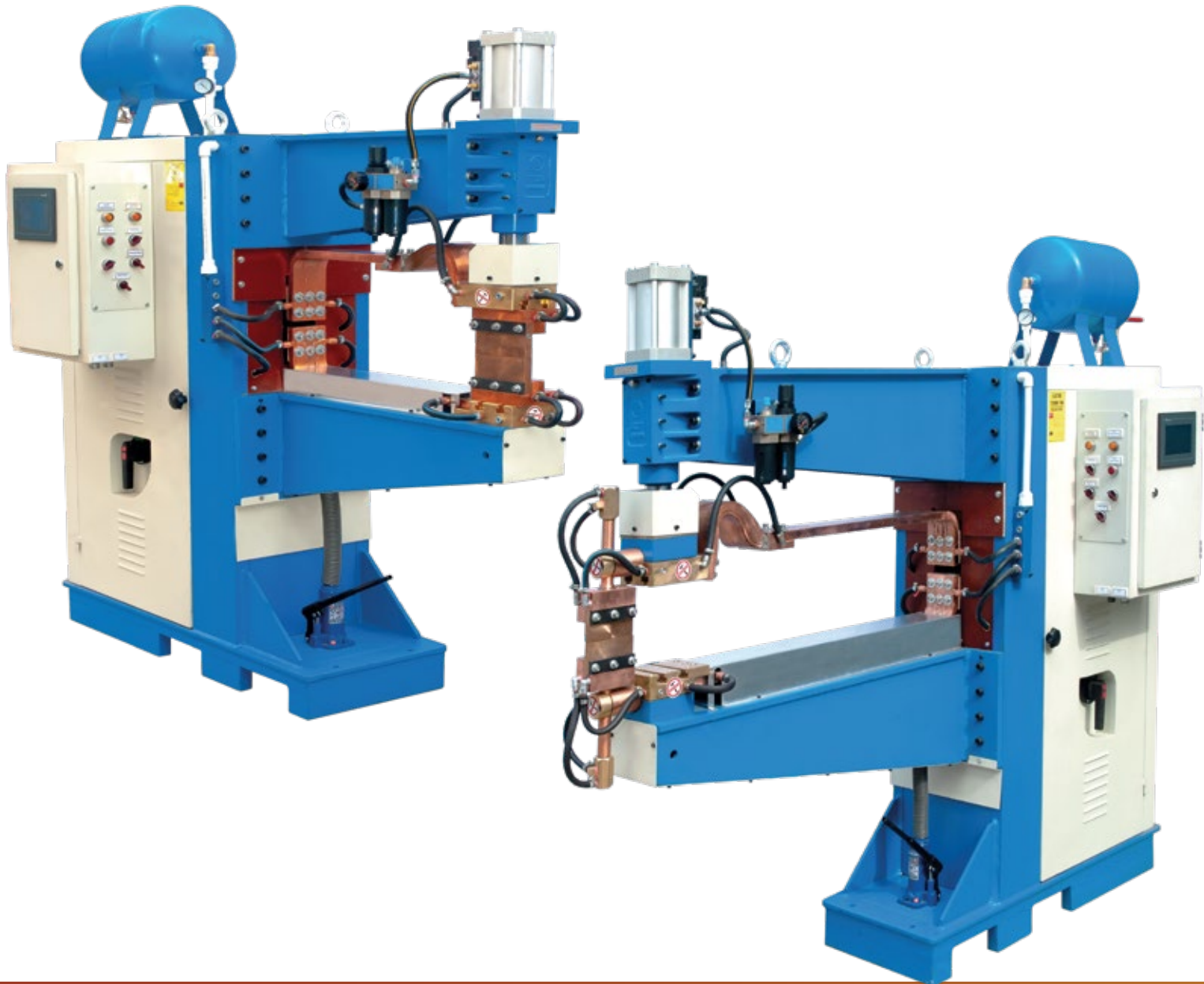




Electro Techno Tak

Design and Production of Welding Machinery

A Lasting Legacy in the Welding Industry



Spot and Projection
Welding Machines
S-L1100 Series



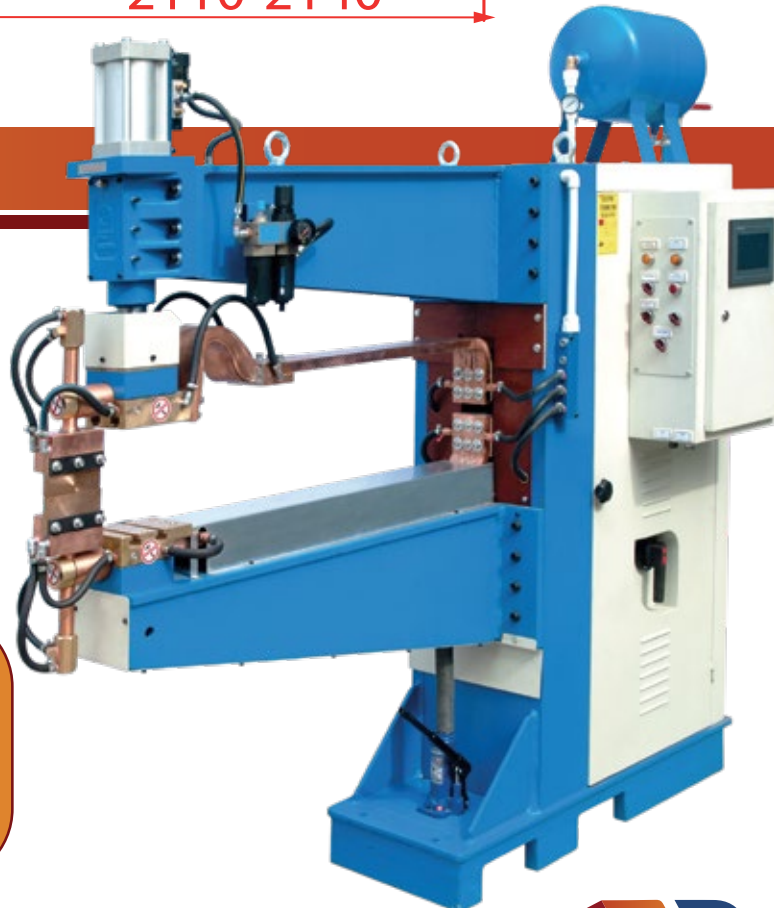
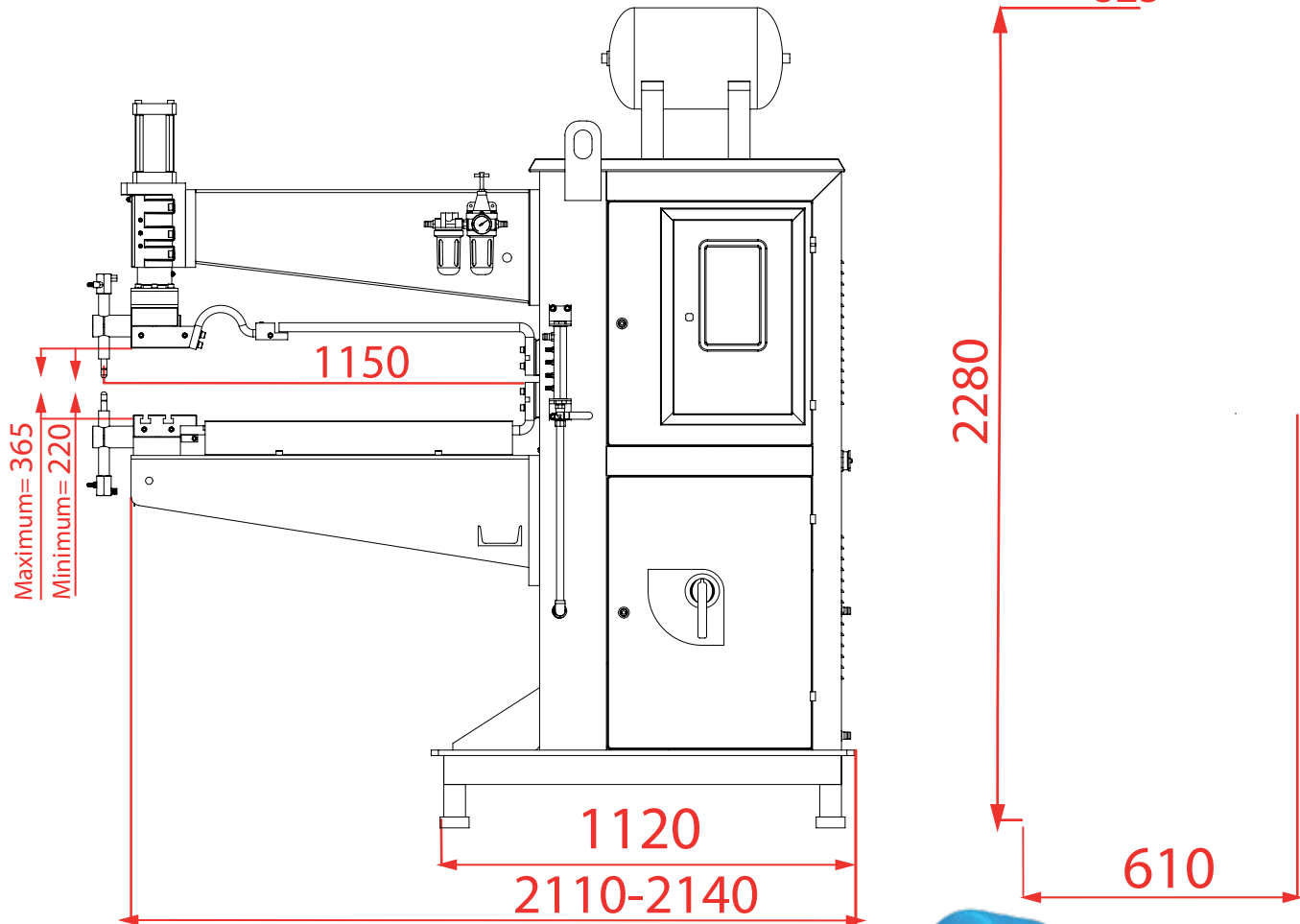
S-2506-L1100
S-3206-L1100

▲ Spot and Projection Welding Machine

Features

- 1) Suitable for high-speed welding of various condensers.
- 2) Suitable for three-shift work.
- 3) Intelligent control panel with fault diagnosis capability from the user interface.
- 4) Powerful transformer with high efficiency and long lifespan.
- 5) Adjustable lower console to create the necessary distance between the jaws and alignment with the workbench.

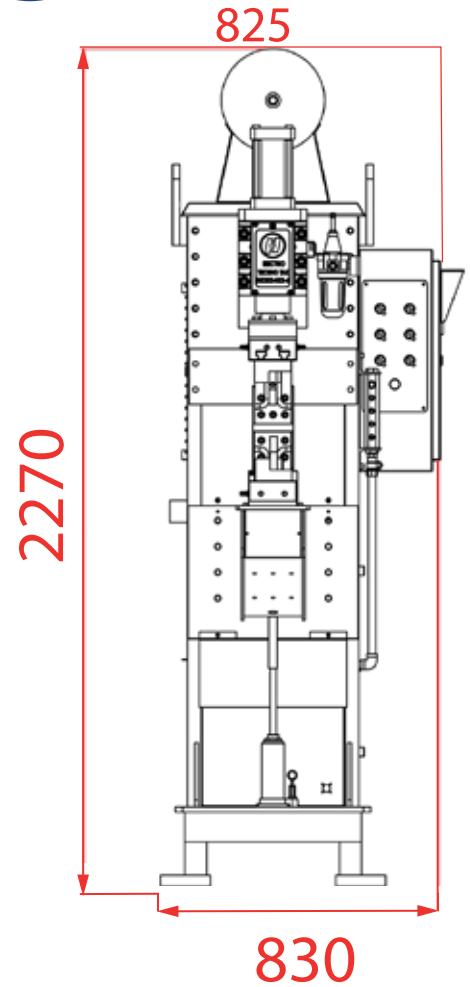
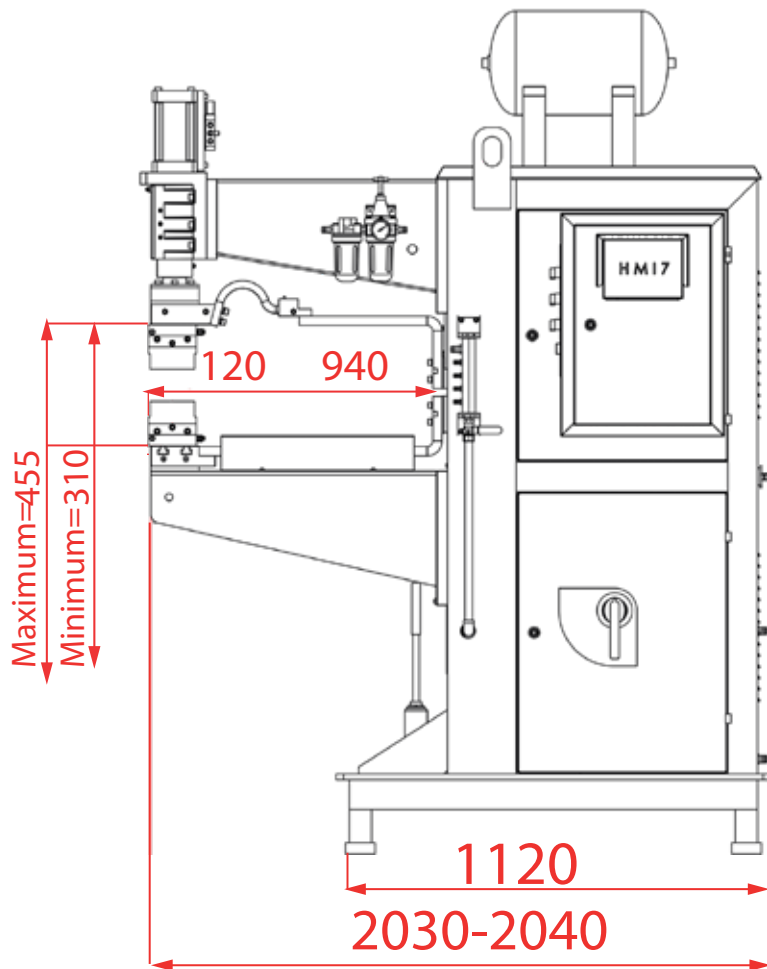




Type: 1

Equipped with an arm, soldering iron, holder, blade electrode and a brass T-shaped plate





Type: 2

Equipped with a holder
and blade electrode
brass T-shaped plate





| Technical Data | S-2506 L1100 | S-3206 L1100 |
|--|------------------------------|------------------------|
| Power at 50% E.D (KVA) | 250 | 320 |
| Max.welding POWER (KVA) | 365 | 456 |
| Input Voltage (V) | 380 / 1ph | 380 / 1ph |
| Secondary no -load Voltage (V) | 14.6 | 15.2 |
| OVERHEAT | OK | OK |
| Minimum water flow rate (lit/min) | 8 | 8 |
| Jack stroke (mm) | 100 | 100 |
| Max electrode force (dan) with 6 bar | 500 | 500 |
| Dimensions of the T desk (mm) | 130 * 130 | 130 * 130 |
| Arm&electro de holder diameter (mm) ∅ Type 1 | 60 (30) | 60 (30) |
| Throat depth (mm) | 1100 | |
| Diameter of electrode (mm) | 120 | 120 |
| Arms gap (mm) | Tip1:220~365 / Tip 2:310~455 | |
| Maximum normal steel welding rate (mm) | 1.8 + 1.8 | 2.5 + 2.5 |
| Unit Control | Digital | Digital |
| Secondary Current control | Toroid | Toroid |
| Welding Control mode | CC / CV | CC / CV |
| PULSATION | OK | OK |
| Dressing method | STEP UP/ LINE | STEP UP/ LINE |
| Dress mod Lorem ipsum | Step dress | Step dress |
| Primary current monitoring / feed back | CT | CT |
| Proportional valve | Available upon request | Available upon request |
| Primary / voltage monitoring | OK | OK |
| Input / output check on HMI | OK | OK |
| Active / reactive current monitoring | OK | OK |
| User panel | HMI Key | HMI Key |
| User friendly | OK | OK |
| Persian and English menu | OK | OK |
| Alarm light | OK | OK |
| Weld / No weld key | OK | OK |
| Reset key | OK | OK |
| Reset counter on HMI | OK | OK |
| Emergency stop | Available upon request | Available upon request |
| Key to select pedal or manual mod | Available upon request | Available upon request |
| Alarm light for Dress or Exchange and ... mod | OK | OK |
| dress mod with parallel valve and separate regulator | Available upon request | Available upon request |





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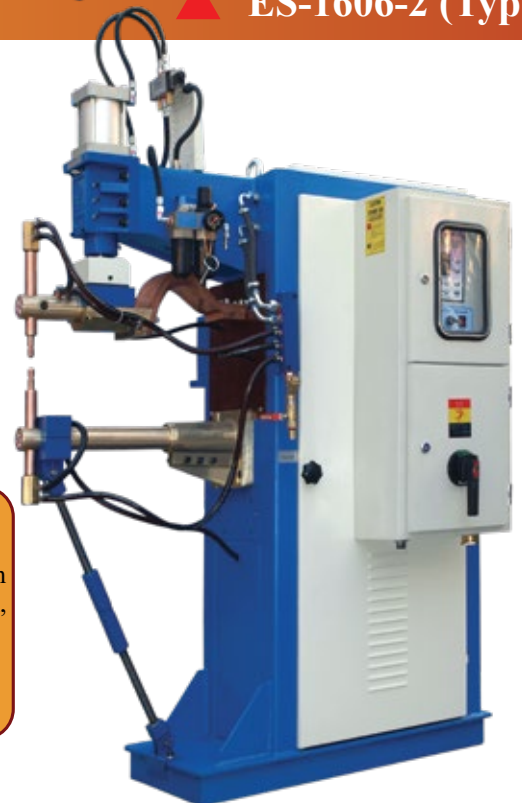


Spot and Projection
Welding Machines
ES-1606 Series



ES-1606-1 (Type 1) ▲

▲ ES-1606-2 (Type 2)

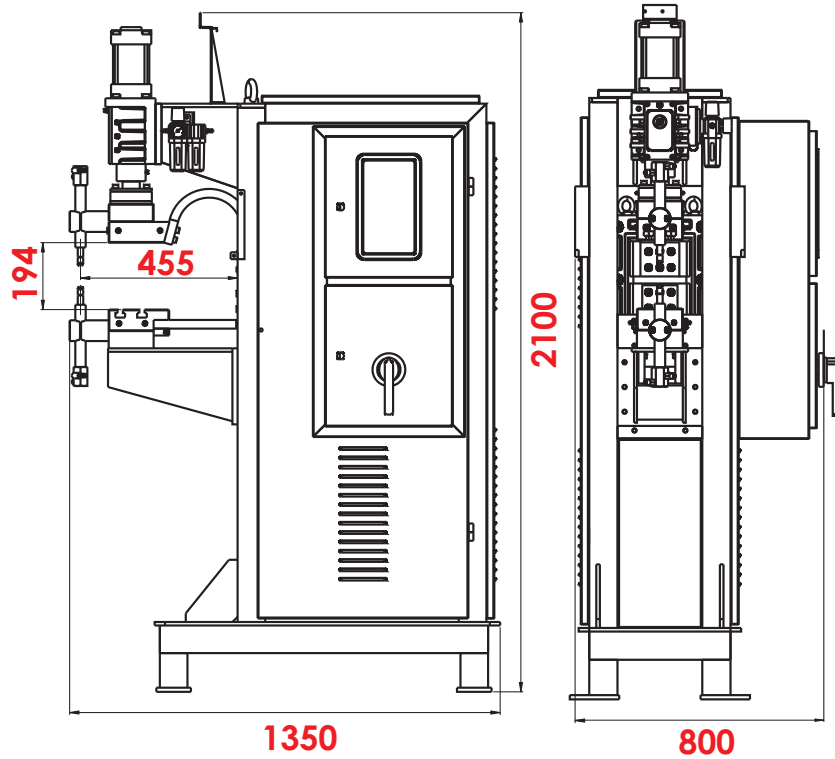


ES-1606 Series

Available in 4 different types with console or arm and soldering iron, due to the customer's component design

ES-1606-3 (Type 3) ▲

▲ ES-1606-4 (Type 4)



Spot and Projection Welding Machine, Type 1

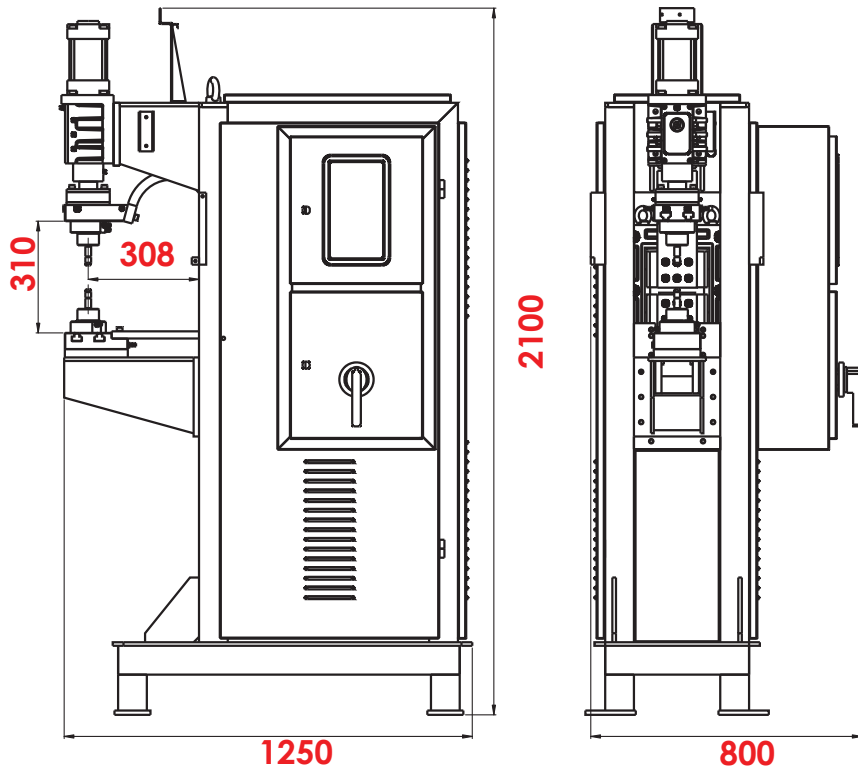
Features

- 1) Powerful transformer with high efficiency and long lifespan.
- 2) Suitable for three-shift operation.
- 3) Digital control panel with 20 memory slots.
- 4) Very high-speed welding.
- 5) Suitable for spot welding of various steel sheets, coated materials, and stainless steel.
- 6) Dual-purpose machine for projection welding and spot welding.

Type 1: ES-1606-1

Equipped with a steel console arm and holder brass T-shaped plate (dual-purpose)





Spot and Projection Welding Machine, Type 2

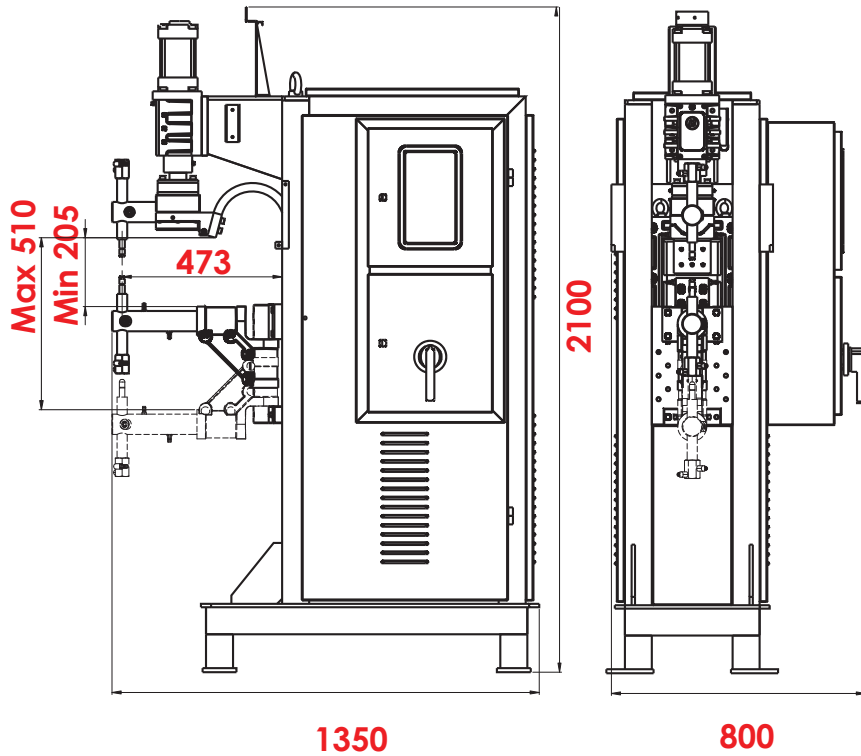
Features

- 1) Powerful transformer with high efficiency and long service life.
- 2) Suitable for three shifts of operation.
- 3) Digital control panel with 20 memory settings.
- 4) Extremely high-speed welding.
- 5) Suitable for spot welding various types of steel sheets, coated sheets, and stainless steel.

Type 2: ES-1606-2

Equipped with a steel console and brass T-shaped plate





Spot and Projection Welding Machine, Type 3

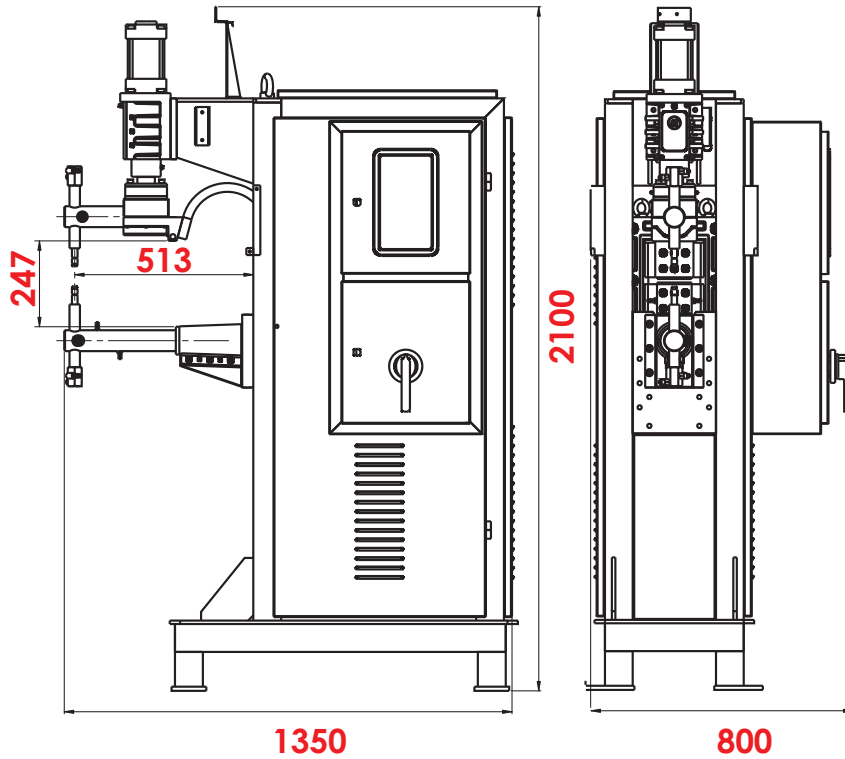
Features

- 1) Powerful transformer with high efficiency and long service life
- 2) Suitable for three shifts of operation
- 3) Digital control panel with 20 memory settings
- 4) Extremely high-speed welding
- 5) Suitable for spot welding various types of steel sheets, coated sheets, and stainless steel

Type 3: ES-1606-3

Equipped with an arm
Cool water and lower
jaw, adjustable movable





Spot and Projection Welding Machine, Type 4

Features

- 1) Powerful transformer with high efficiency and long service life
- 2) Suitable for three shifts of operation
- 3) Digital control panel with 20 memory settings
- 4) Extremely high-speed welding
- 5) Suitable for spot welding various types of steel sheets, coated sheets, and stainless steel

Type 4: ES-1606-4

Equipped with a cooling water arm and fixed jaw





| Technical Data | ES-1606-4 | ES-1606-3 | ES-1606-2 | ES-1606-1 |
|--|-----------|-----------|-----------|-----------|
| Power at 50% E.D (KVA) | 160 | 160 | 160 | 160 |
| Max. welding Power at 33% ED (KVA) | 280 | 280 | 280 | 280 |
| Input Voltage (V) | 380/1ph | 380/1ph | 380/1ph | 380/1ph |
| Secondary no - load Voltage (V) | 10.5 | 10.5 | 10.5 | 10.5 |
| Current control | SCR | SCR | SCR | SCR |
| Electronic control | Digital | Digital | Digital | Digital |
| Mover system | peneu | Peneu | Peneu | Peneu |
| Max electrode force (daN) with 6 bar | 500 | 500 | 500 | 500 |
| Jack stroke (mm) | 50 | 50 | 50 | 50 |
| Arm & electrode holder diameter (mm) | 60(30) | 60(30) | - | 60(30) |
| Throat depth (mm) | 513~563 | 473~523 | 308 | 455~505 |
| Arms gap (mm) | 247 | 205~510 | 310 | 195 |
| Welding capacity of Mild steel in mass production (mm) | 1.5+1.5 | 1.5+1.5 | 1.5+1.5 | 1.5+1.5 |
| Welding capacity of Light metals in mass production (mm) | 0.8+0.8 | 0.8+0.8 | 0.8+0.8 | 0.8+0.8 |
| Welding capacity of Mild steel rod in mass production (Ø mm) | | 8+8 | 8+8 | 8+8 |
| Compressed air supply (bar) | 6 | 6 | 6 | 6 |
| Cooling water consumption more than (Lit/Min) | 8 | 8 | 8 | 8 |
| Overall monitoring (L x W x H) (cm) | H:2100 | H:2100 | H:2100 | H:2100 |
| | W:800 | W:800 | W:800 | W:800 |
| | L:1350 | L:1350 | L:1250 | L:1350 |
| Gross Weight (Kg) | 740 | 740 | 740 | 750 |





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Spot and Projection
Welding Machines
ES-803 Series



ES-803-2 ▲

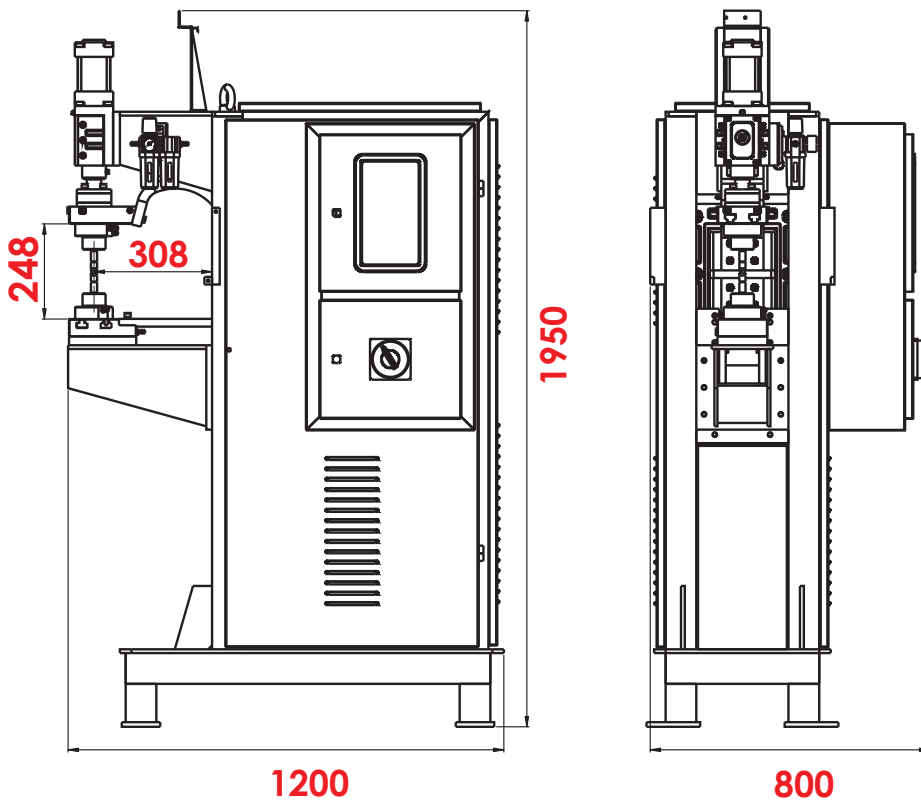


ES-803-3 ▲

ES-803 Series
Available in 3 different types featuring
consoles with arms and soldering irons
tailored to customer component's designs



▲ ES-803-4



Spot and Projection Welding Machine

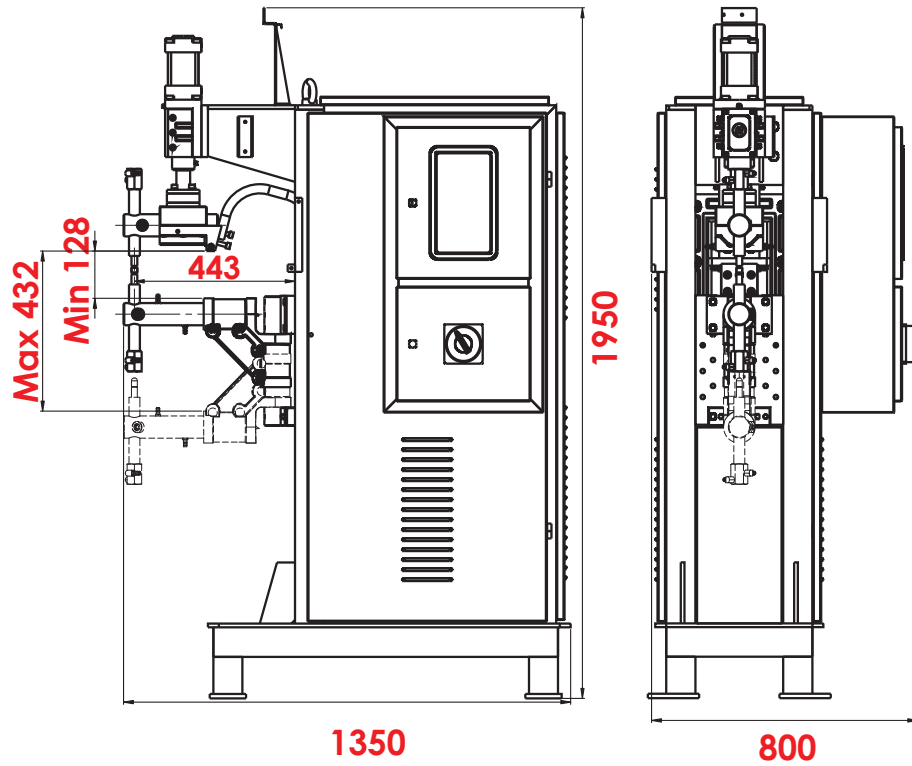
Features

- 1) Powerful transformer with high efficiency and long service life.
- 2) Suitable for three shifts of operation.
- 3) Digital control panel with 20 memory settings.
- 4) Extremely high-speed welding.
- 5) Suitable for spot welding various types of steel sheets, coated sheets, and stainless steel.
- 6) Suitable for welding various types of threaded studs and nuts (projection welding).

Type: ES-803-2

Equipped with a steel console and a brass T-plate





Spot and Projection Welding Machine

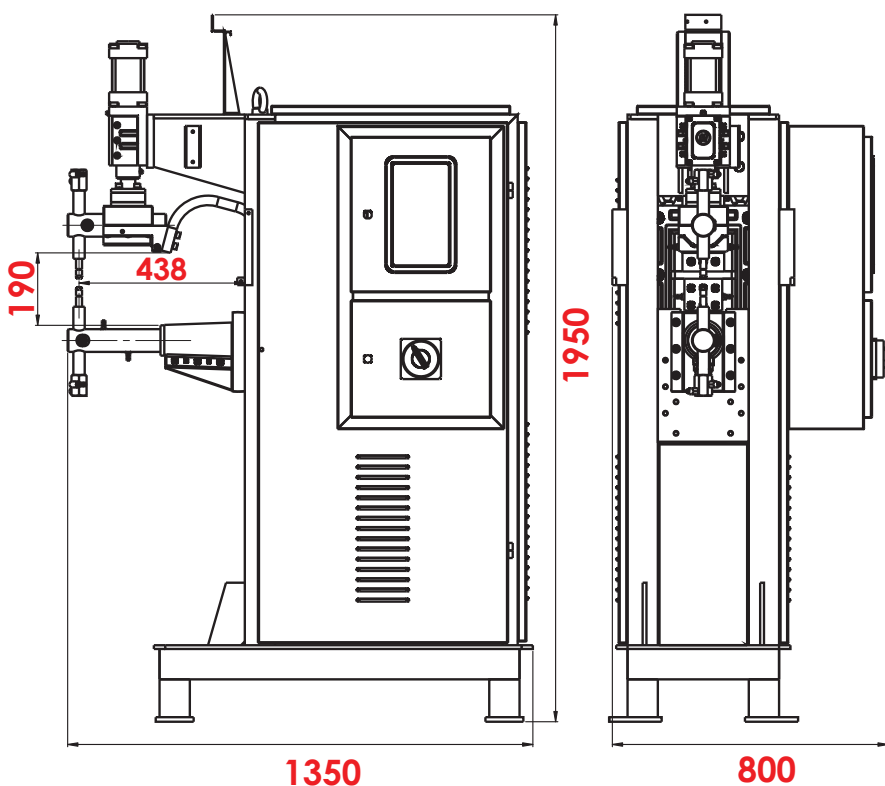
Features

- 1) Powerful transformer with high efficiency and long service life.
- 2) Suitable for three shifts of operation.
- 3) Digital control panel with 20 memory settings.
- 4) Extremely high-speed welding.
- 5) Suitable for spot welding various types of steel sheets, coated sheets, and stainless steel.
- 6) Suitable for spot welding components that require adjustable distance between the arms.

Type: ES-803-3

Equipped with a cooling water arm and an adjustable movable lower jaw





Spot and Projection Welding Machine

Features

- 1) Powerful transformer with high efficiency and long service life.
- 2) Suitable for three shifts of operation.
- 3) Digital control panel with 20 memory settings.
- 4) Extremely high-speed welding.
- 5) Suitable for spot welding various types of steel sheets, coated sheets, and stainless steel.
- 6) Suitable for high-efficiency spot welding.

Type: ES-803-4

Equipped with a cooling water arm and a fixed jaw





| Technical Data | ES-803-4 | ES-803-3 | ES-803-2 |
|--|-----------|-----------|-----------|
| Power at 50% E.D (KVA) | 80 | 80 | 80 |
| Max. welding Power at 33% ED (KVA) | 140 | 140 | 140 |
| Input Voltage (V) | 380/2 ph | 380/2 ph | 380/2 ph |
| Secondary no - load Voltage (V) | 7.6 | 7.6 | 7.6 |
| Current control | SCR | SCR | SCR |
| Electronic control | Digital | Digital | Digital |
| Mover system | pneumatic | pneumatic | pneumatic |
| Max electrode force (daN) with 6 bar | 3000 | 3000 | 3000 |
| Jack stroke (mm) | 50 | 50 | 50 |
| Arm & electrode holder diameter (mm) | 60 | 60 | 60 |
| Throat depth (mm) | 438~488 | 443~493 | 308 |
| Arms gap (mm) | 190 | 128~432 | 248 |
| Welding capacity of Mild steel in mass production (mm) | 1.2+1.2 | 1.2+1.2 | 1.2+1.2 |
| Welding capacity of Light metals in mass production (mm) | 0.5+0.5 | 0.5+0.5 | 0.5+0.5 |
| Welding capacity of Mild steel rod in mass production (Ø mm) | 6+6 | 6+6 | 6+6 |
| Compressed air supply (bar) | 6 | 6 | 6 |
| Cooling water consumption more than (Lit/Min) | 8 | 8 | 8 |
| Overall monitoring (L x W x H) (cm) | H:1950 | H:1950 | H:1950 |
| | W:800 | W:800 | W:800 |
| | L:1350 | L:1350 | L:1200 |
| Gross Weight (Kg) | | | |

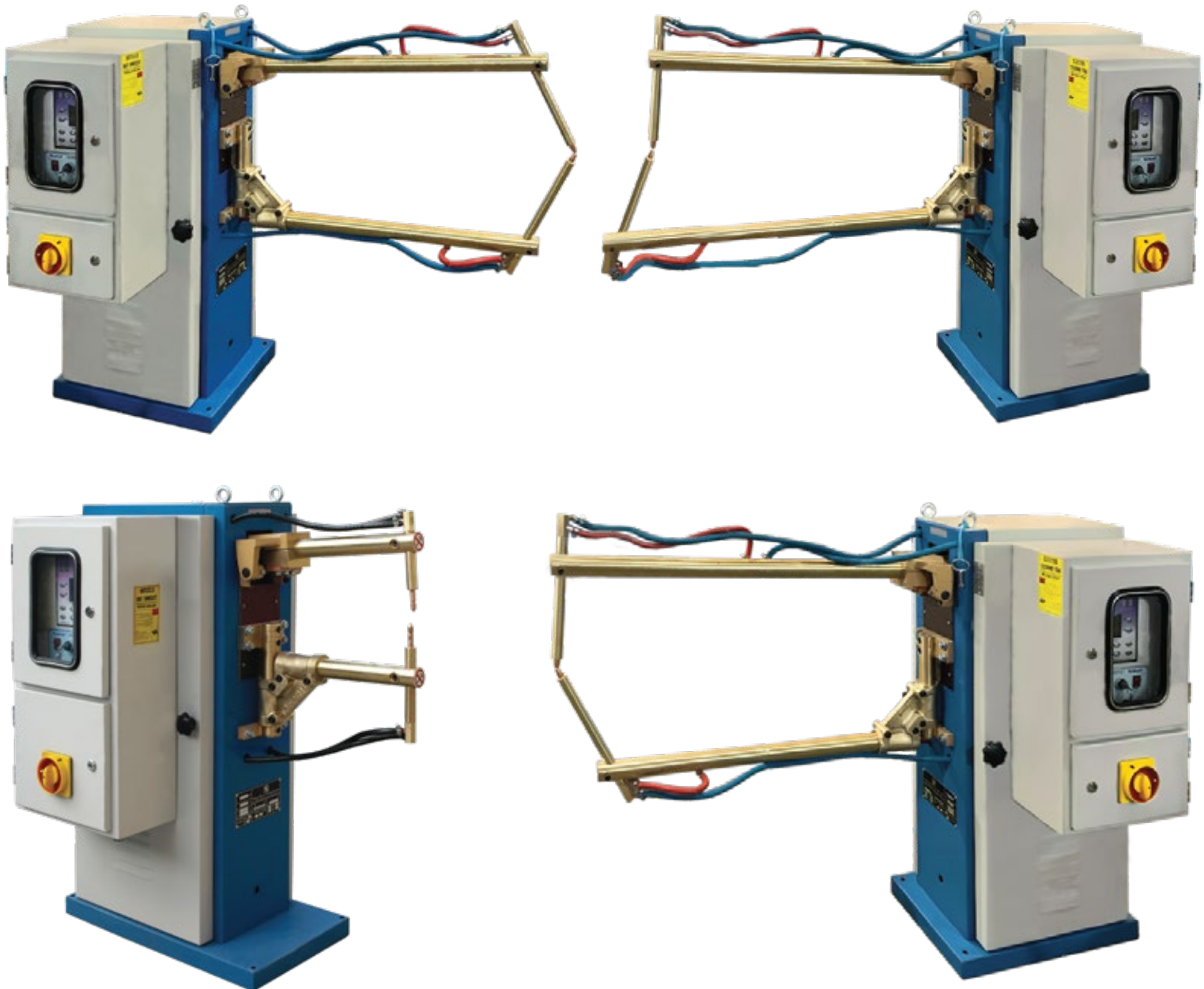




Electro Techno Tak

Design and Production of Welding Machinery

A Lasting Legacy in the Welding Industry



Spot and Projection
Welding Machines
SP Series



SP-503 Series

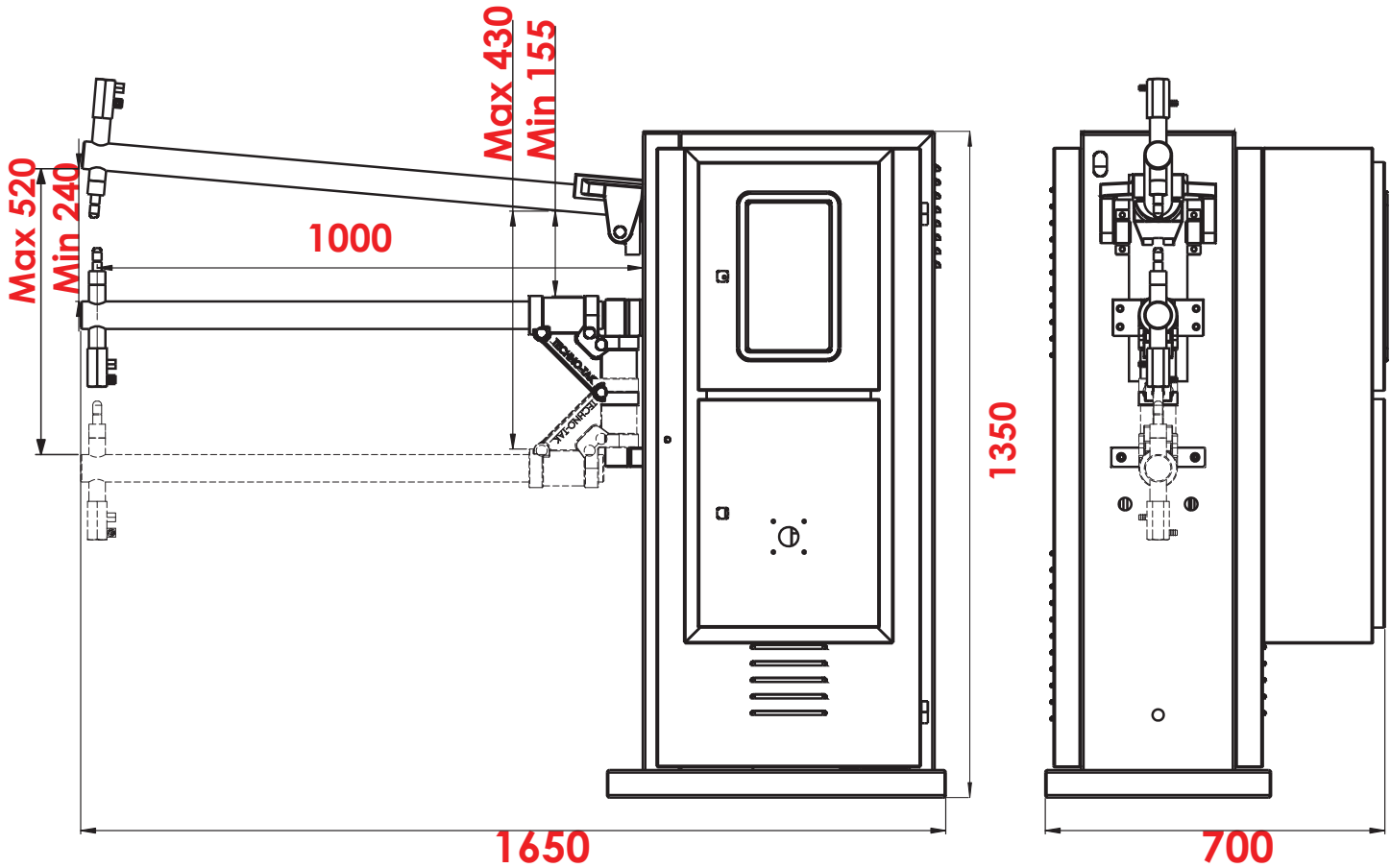
Available in 3 different types Equipped with a
Ø50 mm diameter cooling water arm movable
lower jaw, digital or analog control panel and
pneumatic movement system

▲ Spot Welding Machine

Features

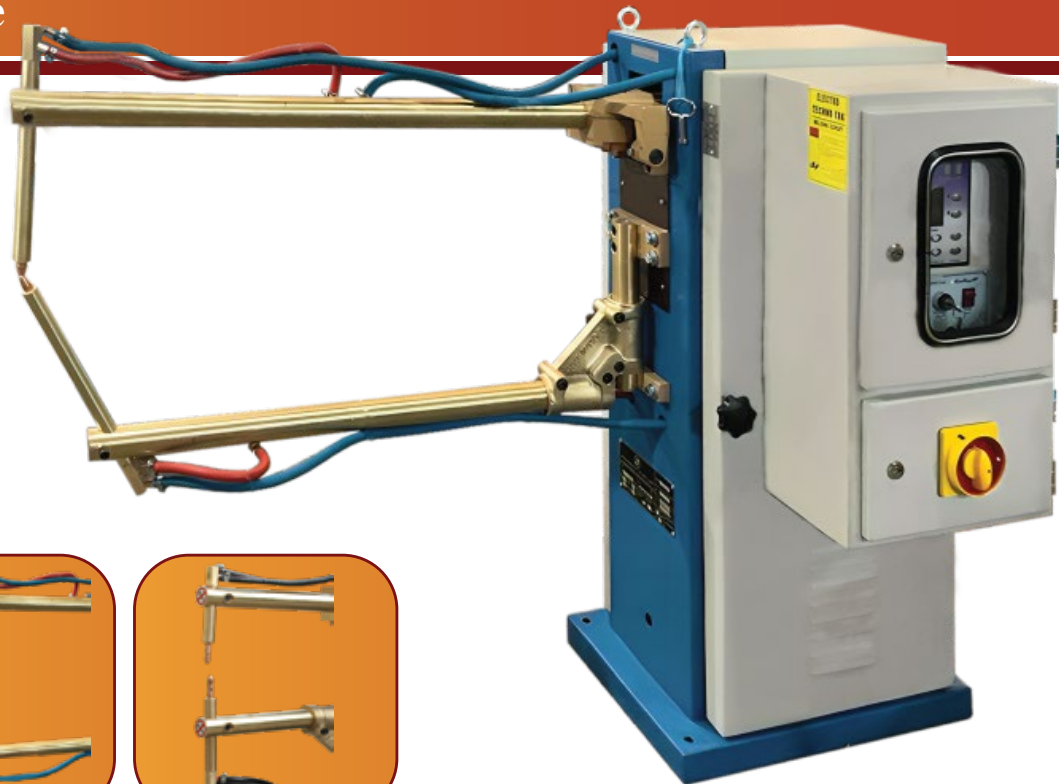
- 1) Suitable for three shifts of operation.
- 2) High-speed welding.
- 3) Equipped with a digital or analog control panel.
- 4) Pneumatic movement system.
- 5) Powerful transformer with high efficiency.
- 6) Suitable for spot welding various types of iron sheets, coated sheets, and stainless steel.
- 7) High maneuverability of the jaws and arms, with adjustable spacing in different directions.
- 8) Suitable for various workshops such as sheet metal work, blacksmithing, cabinet making and home appliance industri

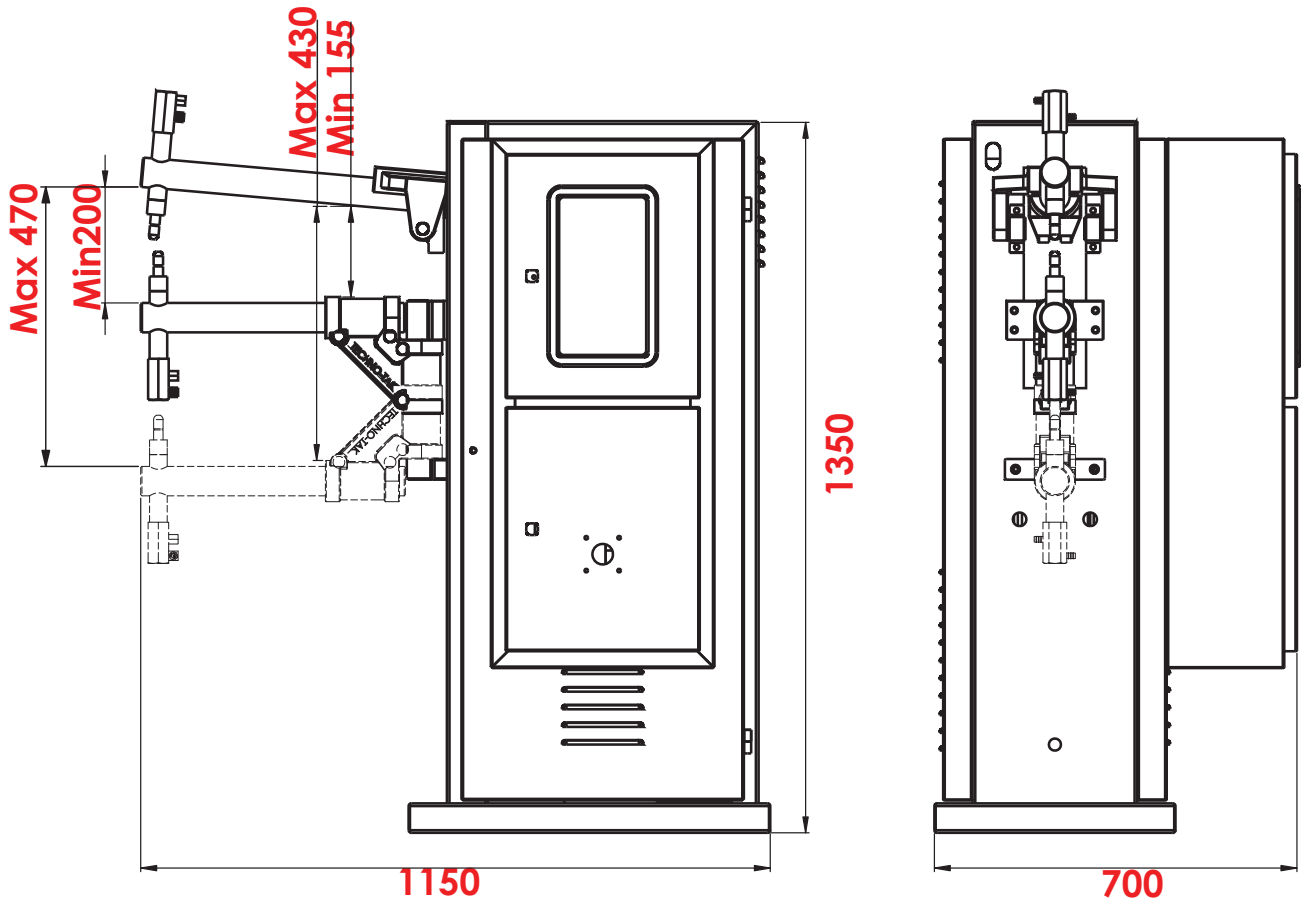




Spot Welding Machine

SP-503-D/A-L1000

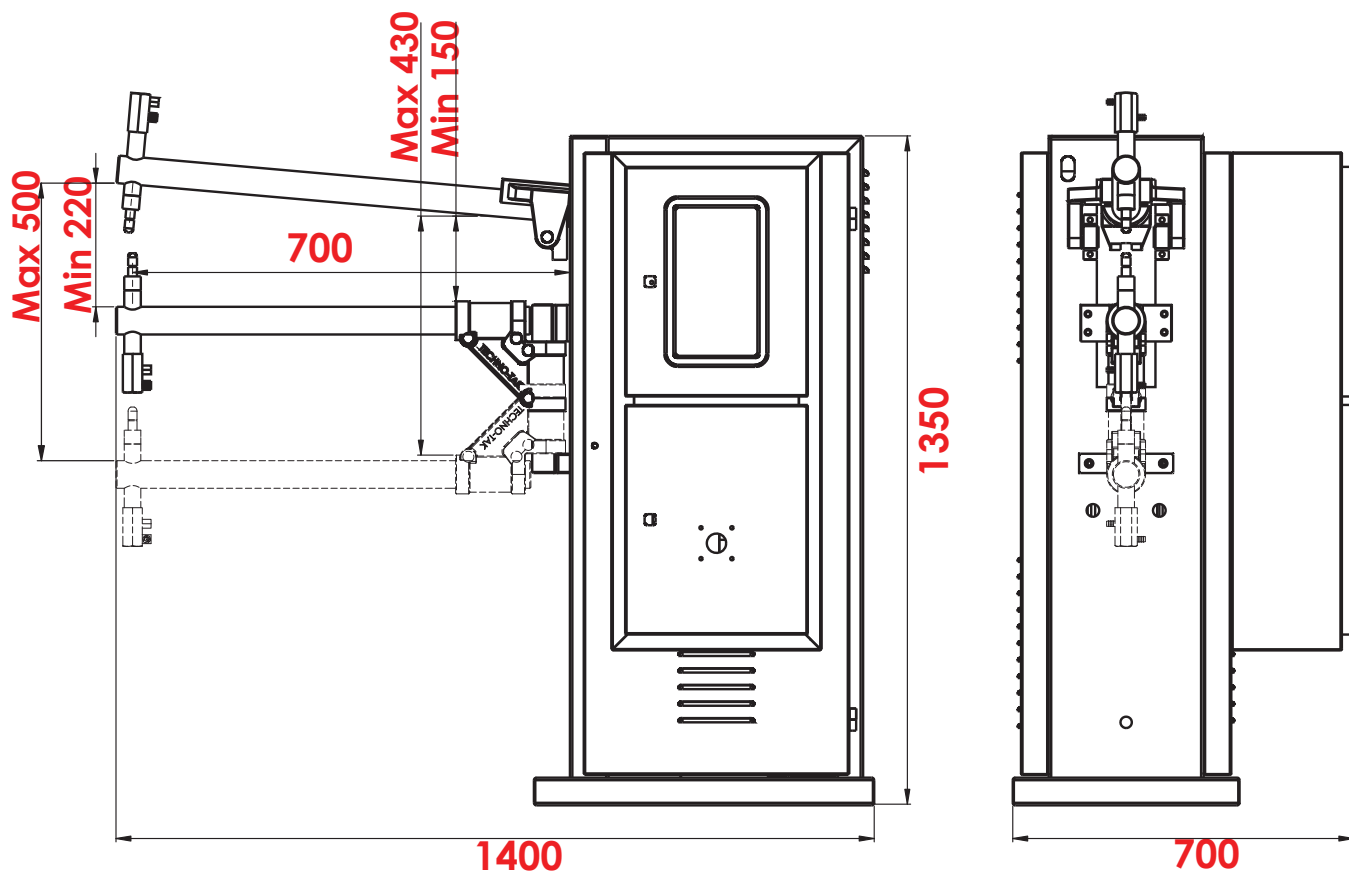




Spot Welding Machine

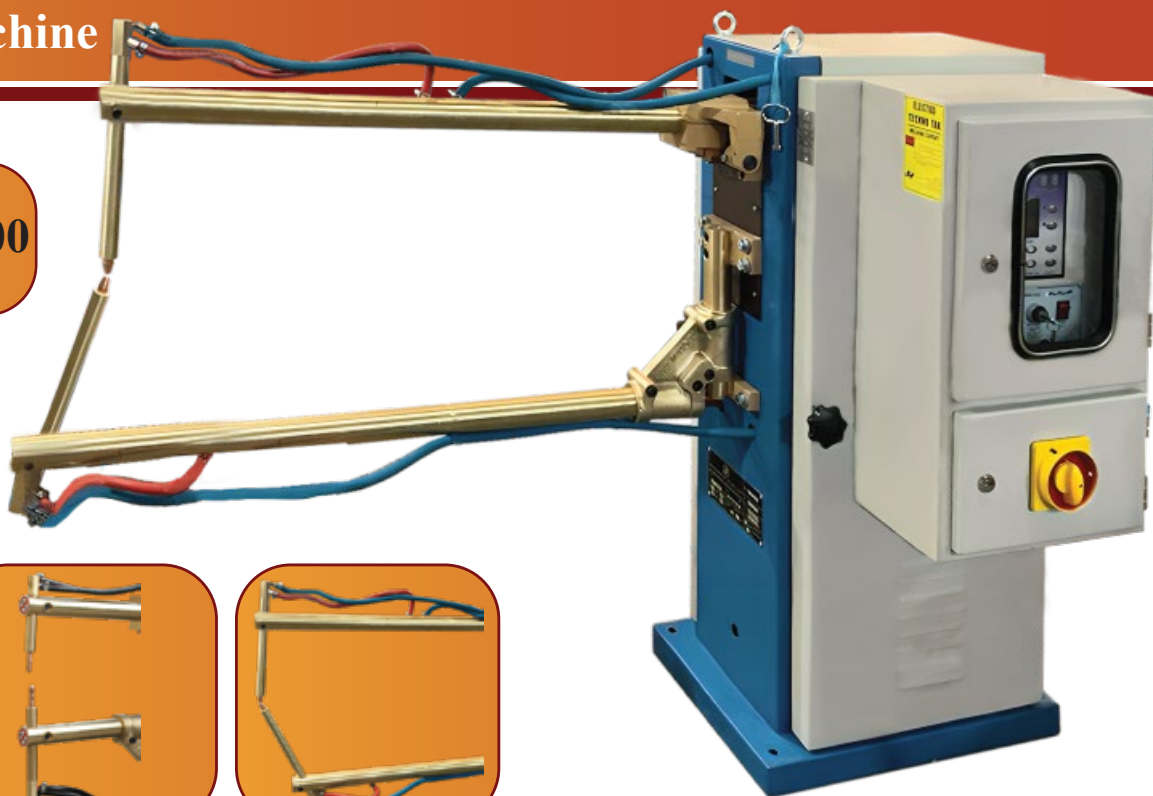
SP-503-D/A-L350





Spot Welding Machine

SP-503-D/A-L700





| Technical Data | SP-503-D/A-L350 | SP-503-D/A-L700 | SP-503-D/A-L1000 |
|---|------------------|------------------|------------------|
| Power at 50% E.D (KVA) | 50 | 50 | 50 |
| Input Voltage (V) | 380/1ph | 380/1ph | 380/1ph |
| Secondary no - load Voltage (V) | 4.5 | 4.5 | 4.5 |
| Current control | SCR | SCR | SCR |
| Electronic control | Digital/Analogue | Digital/Analogue | Digital/Analogue |
| Mover system | Pneu | Pneu | Pneu |
| Max electrode force (daN) with 6 bar | 200 | 200 | 200 |
| Jack stroke (mm) | 100 | 100 | 100 |
| Arm & electro de holder diameter (mm) | 50(25) | 50(25) | 50(25) |
| Throat depth (mm) | 350 | 700 | 1000 |
| Arms gap (mm) | 155~430 | 150~430 | 155~430 |
| length of arms | 350 | 700 | 1000 |
| Welding capacity of Mild steel in mass production (mm) | 2+2 | 1.5+1.5 | 1+1 |
| Welding capacity of Light metals in mass production (mm) | 0.8+0.8 | 0.5+0.5 | - |
| Welding capacity of Mild steel rod in mass production (Ø mm) | 6+6 | 5+5 | 4+4 |
| Compressed air supply (bar) | 5 | 5 | 5 |
| Cooling water consumption more than (Lit/Min) | 6 | 6 | 6 |
| Overall monitoring (LxWxH) (cm) | L:1150 | L:1400 | L:1650 |
| | W:700 | W:700 | W:700 |
| | H:1350 | H:1350 | H:1350 |
| Gross Weight (Kg) | 220 | 240 | 260 |





Electro Techno Tak

Design and Production of Welding Machinery

A Lasting Legacy in the Welding Industry



**Table Spot
Welding Machines**
TS Series



TS-352 ▲



▲ TS-353

TS Series Table Spot Welding Machines

Equipped with a digital panel and pressure control mechanism for welding delicate components and brazing non-ferrous metals





Table Spot Welding Machine

Features

- 1) Suitable for three shifts of operation.
- 2) High-speed welding .
- 3) Equipped with a digital control panel with 20 memory settings.
- 4) Pneumatic movement system with an additional welding pressure control mechanism.
- 5) Powerful transformer with high efficiency.
- 6) Suitable for spot welding delicate sheets from 0.1mm and brazing non-ferrous metals.
- 7) Adjustable jaws and arms in various directions.

Type 1: TS-352

Equipped with a digital control panel
pressure control mechanism, and
adjustable jaws in different directions



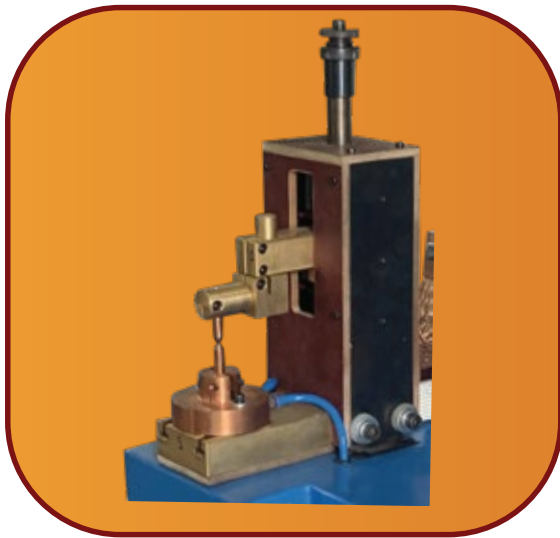


Table Spot Welding Machine

Features

- 1) Suitable for three shifts of operation.
- 2) High-speed welding.
- 3) Equipped with a digital control panel with constant current/constant voltage (CC-CV).
- 4) Pneumatic movement system with an additional welding pressure control mechanism.
- 5) Powerful transformer with high efficiency.
- 6) Suitable for spot welding delicate sheets from 0.1mm and brazing non-ferrous metals.
- 7) Adjustable jaws and arms in various directions.

Type 2: TS-353

Equipped with a digital control panel, constant current/constant voltage (CC/CV) system, pressure control mechanism, and adjustable jaws in various directions





| Technical Data | TS-352 | TS-353 |
|---|---------|-----------------|
| Power at 50% E.D (KVA) | 35 | 35 |
| Input Voltage (V) | 380/1ph | 380/1ph |
| Secondary no - load Voltage (V) | 2.8 | 2.8 |
| Current control | SCR | SCR |
| Electronic control | Digital | Digital - CC/CV |
| Mover system | Pneu | Pneu |
| Max electrode force (daN) with 5 bar | 200 | 200 |
| Jack stroke (mm) | 20 | 50 |
| Arm diameter (mm) | 10 | 10 |
| Throat depth (mm) | 80 | 100 |
| Compressed air supply (bar) | 5 | 5 |
| Cooling water consumption more than (Lit/Min) | 5 | 5 |
| Overall monitoring (L x W x H) (cm) | L: 600 | L: 700 |
| | W: 600 | W: 600 |
| | H: 1100 | H: 1100 |
| Gross Weight (Kg) | 102 | 108 |





Electro Techno Tak

Design and Production of Welding Machinery



Car Body Repair
Spot Welding Machines
AS Series



AS-1002

AS-1002

Double-sided and single-sided spot welding machine AS-1002 for car body repair application

Features

- 1) Equipped with digital control panel
- 2) Equipped with complete tools bag
- 3) Suitable for all Iranian and foreign cars
- 4) Equipped with pneumatic welding guns and extra arms for welding different parts of the car
- 5) ISACO's Approval for the "First Standard Automotive Spot Welding Machine" in IRAN





AS-501
For car body
repair application

Features

- 1) Equipped with analog control panel
- 2) Suitable for petrochemicals and refineries
- 3) Equipped with easy usage
- 4) Equipped with lightweight and animated



▲ AS-501

▼ AS-502

AS-502
For car body
repair application

Features

- 1) Equipped with digital control panel
- 2) Suitable for petrochemicals and refineries
- 3) Equipped with easy usage
- 4) Equipped with lightweight and animated





AS-5 For car body repair application

Features

- 1) Equipped with high maneuverability and transport on production lines
- 2) Suitable for all automotive manufacturers and refiners
- 3) Equipped with a complete tools bag



▲ AS-5

AS-352 ▼

AS-352 Double-sided and single-sided welding machine AS-352 for car body repair application

Features

- 1) Equipped with digital control panel
- 2) Equipped with complete tools bag
- 3) Equipped with pneumatic welding guns and extra arms for welding different parts of the car
- 4) Suitable for all Iranian and foreign cars
- 5) ISACO's Approval for the "First Standard Automotive Spot Welding Machine" in IRAN





| Technical Data | AS-5 | AS-501 | AS-502 | AS-352 | AS-1002 |
|---|--------|------------|-----------|-----------|-----------|
| Input voltage (V) | 220 | 380 | 380 | 380 | 380 |
| Frequency (HZ) | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 |
| Power at 50% E.D (KVA) | 5 | 50 | 50 | 40 | 100 |
| Max power E.D (KVA) | – | 70 | 70 | 56 | 141 |
| Secondary no-load voltage (V) | 5/2 | 7/7 | 7/7 | 7.3 | 18 |
| Output current with cable & Arrn Length | – | 6/5 | 6/5 | 5.3 | 13 |
| Short circuit secondary current | – | 8/5 | 8/5 | 8 | 18 |
| Weld time (cycle) | 100 | 100 | 100 | 100 | 100 |
| Welding control | Analog | Analog | Digital | Digital | Digital |
| Mover system | – | Mechanical | Pneu/Mech | Pneu/Mech | Pneu/Mech |
| Fuse (delayed action) | 32 | 100 | 100 | 60 | 250 |
| Insulation class | F | F | F | F | F |
| Compressed air supply | – | – | 6 | 6 | 6 |
| Overall Dimention (LxWxH) (cm) | L: 57 | L: 112 | L: 112 | L: 175 | L: 175 |
| | W: 45 | W: 50 | W: 115 | W: 76 | W: 85 |
| | H: 30 | H: 34 | H: 80 | H: 110 | H: 130 |
| Gross Weight (Kg) | | | | 180 | 230 |





ELECTRO TECHNO TAK (KNOWLEDGE-BASED CO)
DESIGN & PRODUCTION OF WELDING MACHINERY
A Lasting Legacy in the Welding Industry

Electro Techno Tak (Knowledge-Based Co)

Founded in 1976, ETT began as a privately-owned company and, in 1983, specialized in designing and manufacturing Resistance and Arc Welding” devices after receiving a license from the Ministry of Industries.

In 1994, ETT expanded its expertise by completing training with the American Miller Company, leading to the design of advanced welding machines and securing the after-sales service representative role for Miller.

Committed to quality and international standards, ETT earned the "National Standard" seal in 1998 and became the first accredited laboratory of the Iranian Institute of Standards and Industrial Research. In 2023, the company received the "Knowledge-Based Approval in High Tech" certification.

ETT Products and Applications:

Spot and projection welders, seam welders, butt and flash welders, portable systems, Electro forged grating and the other customized devices.

Specialized Equipment:

Automotive body repair, aerospace, and pipeline welding solutions.

Services:

Engineering consultancy, operator training, and maintenance support.

Industries Served:

Wire and Cable / Wire Drawing

Automotive / Aerospace / Oil & Gas

Construction / Home Appliances



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کد پستی: ۱۸۸۷۸۶۵۱۱۴ تلفکس: ۵۵۲۳۲۴۳۲-۶

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