

MIG/ MAG Welding Application

- Through high-speed transition process, welding speed of Low Splash 350L Series welding power source is 30% higher and the splash of it is 40% to 60% lower comparing with traditional MAG power source. Because of its stable thermal output, Low Splash 350L is perfect high efficiency and quality solution for carbon steel and stainless-steel sheet (0.8-3mm) welding of steel & wood furniture, bike frame, sheet metal, elevator, automotive and other industries. welding.
- Because of accurate pulse transition process, the splash of EC Pulse Series single & dual pulse power is reduced by 50% compared with traditional high-current welding power supply. EC Pulse Series single & dual pulse power is perfect solution of high-performance medium and thick carbon steel, stainless steel, aluminum alloy materials welding in steel structure, railways, pressure vessels, aluminum templates and other industries.
- SAF single & double pulse welding power supply and its Push & Pull welding torch offers great welding solutions for ultra-thin, high-precision aluminum alloy material.



Automatic parking system welding



Seats on high-speed train

Welding performance of EC350P single & double pulse welding power source



Body of new energy automobiles

Welding performance of SAF Push & pull welding torch



TIG Welding Application

The workstation combines ESTUN robots with domestic leading pulse TIG welding power source. Through fast data exchange between power source and controller based on self-developed ESTUN Mate arc welding software package, the workstation meets welding requirements of thin sheets and rare metals with self-fused no spark argon arc welding function and multi-shape pulse wire feeding argon gas arc welding function.



Resistance/Spot Welding Application

To provide fast, acute and precise welding control, ESTUN specialized spot-welding robot is equipped with ESTUN high speed servo motor. Its high load capacity covers variety of spot-welding guns. With IPC, it is possible to control the system via Ethernet in real time and carry out large-scale welding line with single or multiple robots. ESTUN Spot welding robots are especially suitable to automobile and related parts welding production lines.



ESTUN ROBOTICS Co., Ltd.

— No.1888, Jiying Road, Jiangning Development Zone, Nanjing 211106, P.R.China
 — +86-25-52785866
 — +86-25-52785966
 — www.estun.com

Service Hotline +86 400 025 3336



Wechat



Website

ALL MADE BY ESTUN

WELDING ROBOT SYSTEM SOLUTION

Arc Welding

ER6-1600

Max. load capacity
6 kg



Arm Range
1600mm

Repeatability
±0.08mm

Arc Welding

ER6-1450-H

Max. load capacity
6 kg



Arm Range
1450mm

Repeatability
±0.08mm

Arc Welding

ER20/10-2000-HI

Max. load capacity
10 kg



Arm Range
2000mm

Repeatability
±0.07mm

Spot Welding

ER170-2650

Max. load capacity
170 kg



Arm Range
2650mm

Repeatability
±0.2mm

Spot Welding











ER220-2650

Max. load capacity
220 kg

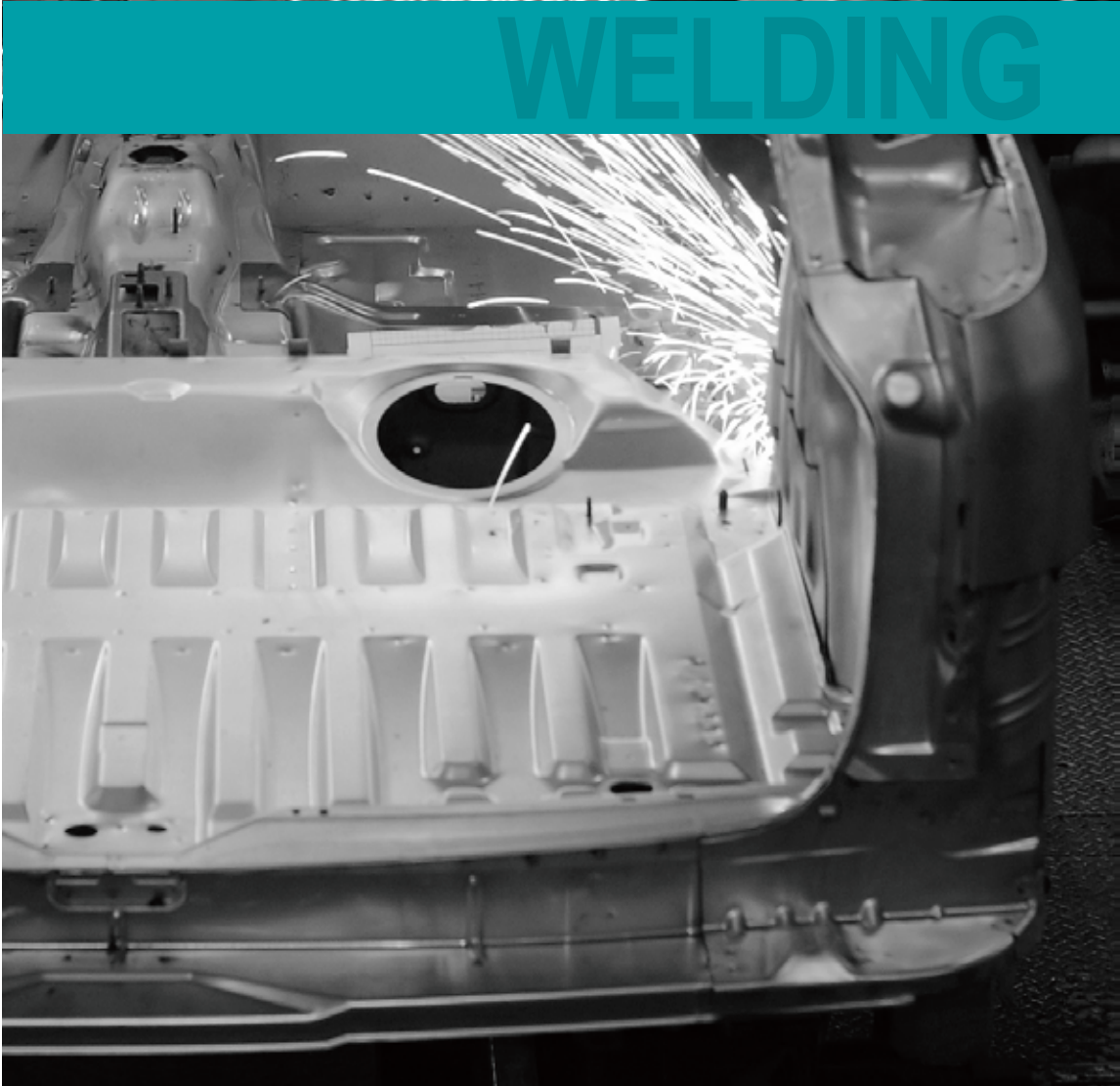


Arm Range
2650mm

Repeatability
±0.2mm

 Weight 164 kg	 Installation Floor/Ceiling	IP54	 Weight 155 kg	 Installation Floor	IP54	 Weight 248 kg	 Installation Floor	IP54	 Weight 1070 kg	 Installation Floor	IP54	 Weight 1100 kg	 Installation Floor	IP54
1	±180°		1	±170°		1	±180°		1	±180°		1	±180°	
2	-60° ~ +140°		2	-60° ~ +160°		2	-95° ~ +160°		2	-60° ~ +80°		2	-60° ~ +80°	
3	-155° ~ +80°		3	-155° ~ +85°		3	-170° ~ +80°		3	-95° ~ +80°		3	-95° ~ +80°	
4	±170°		4	±170°		4	±180°		4	±180°		4	±180°	
5	±180°		5	±180°		5	±140°		5	±125°		5	±125°	
6	±360°		6	±360°		6	±360°		6	±360°		6	±360°	
1	148°/s		1	180°/s		1	185°/s		1	114°/s		1	114°/s	
2	109°/s		2	180°/s		2	185°/s		2	108°/s		2	89°/s	
3	214°/s		3	180°/s		3	190°/s		3	119°/s		3	95°/s	
4	441°/s		4	440°/s		4	355°/s		4	180°/s		4	130°/s	
5	580°/s		5	400°/s		5	360°/s		5	180°/s		5	130°/s	
6	696°/s		6	600°/s		6	585°/s		6	260°/s		6	170°/s	

*The pictures in this manual are for reference only and the appearance is subject to actual conditions. Any changes to the details are subject to change without notice.
*The data marked in this manual is derived from ESTUN laboratory data and may differ from the actual usage data. ESTUN has the right to interpret the data in this manual.



ESTUN serial full-digital arc welding power source



EC350L

- Special short circuit transition control
- Super low-splash function, for 0.8-3mm sheet metal
- Suitable for carbon steel, stainless steel and galvanized sheets welding

EC350/500

- Extraordinary mag welding performance of carbon steel with
- Fine control of droplet transition
- Welding penetration control function



EC500 water cooling

- Particularly suitable for high-performance carbon steel welding in industries such as structure steel, heavy industry, pressure vessels, etc.

EC350P/350P water cooling/500P water cooling

- Splash free welding is realized by accurate droplet control technology
- Enhanced pulsed function for fish scale welding
- Suitable for welding carbon steel, stainless steel, aluminum and other metal alloy

Servo Positioner



ESP-1D
Single-axis Positioner



ESP-1H
Single-axis Head & Tail Bracket Positioner



ESP-2U
U-type Two Axes Positioner

High Speed

speed up to 138°/s,
increase productivity

High Accuracy

with RV reducer,
repeatability up to ±0.1mm

Light Weight

light weight,
easy to install

High Durability

Simple structure of drive
system and low failure rate;
good electrical conductivity
and reasonable cable layout

Customized Peripheral Equipment



BINZEL



TBI



DINSE



FRONIUS



RSP



SERVO-ROBOT



AOTAI



MEGMEET



LINCOLN



IDAGO



KEMPPi

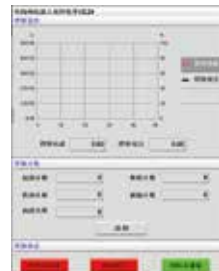


FRONIUS



SAF

Application Software Package



Arc Welding Software Package

ESTUN Mate arc welding software package perfectly integrated robot and welding power source via CANOpen, 485 bus and I/O communication with a massive real-time data interaction. In addition to basic welding functions, the package provides a variety of advanced functions, such as registration code activation, graphically monitoring of current, voltage and wire feeding speed, wire-stick detection, wire-stick auto-release, interlock of the robot and the power source, sequence welding, intermittent welding, pendulum welding, and so on. Built-in laser visual locating and tracking function provides fine location and real-time tracking of welding seam, greatly simplify the teaching operation and tools' complexity, thus to achieve higher efficiency and reliability. Welding parameters can be set and displayed on the welding window of the teach pendant. The welding software package meets different welding needs by various specialized welding instructions.



ESTUN SPOT

Equipped with its own servo drive and motor, ESTUN servo electrode holder can control the spot welding pressure accurately, which ensures the results of welding points and regulate conditions of the grinding and replacement of electrode cap. It can accurately control the position of electrode holder by the function of grinding compensation, 128 welding specifications can be selected for different types and thicknesses of welding materials. The conditions of spot-welding equipment, including welding controller, electrode holder, grinder, etc., are overall monitored to ensure the safety at the job site. The software, with high redundancy, can match multiple welding controllers via I/O as well as Profibus, Modbus TCP and CANOpen, to meet customers' special requirements at job sites (customization). A series of robots can be selected for various electrode holders. ESTUN's self-developed remote monitoring system realizes remote diagnosis and troubleshooting, is optional.