Aerospace Engineering Equipment (Suzhou) Co., Ltd.

C-type Friction Stir Welding Equipment

Main Characteristics

- Adopting a unique structural design, optimized by structural dynamic and static simulation, with sufficient structural stability and shock resistance, the overall structure of the equipment is compact, occupied space is small, it is easy to transport.
- Adopting the newest safety design concept, the processing area is enclosed to provide safety maximization.
- The equipment is provided with a pressure control system to realize automatic welding without human intervention, high efficiency, high quality, flash-free welding.
- The equipment is provided with an automatic tool changing system to remarkably improve product efficiency and automation level.
- The equipment is provided with a video monitoring system to realize remote real-time welding monitoring.
- It can realize any 2D complex track welding, assisted with a special jig to realize any ring-shape, spiral-shape automatic welding.
- It is suitable for welding of aluminum alloy, magnesium alloy, copper alloy, metal based composite material, high polymer material, etc.
- A whole set of friction stir welding technology and clamp design adapted with the target product are provided to ensure high efficiency as well as high quality production.

Standard configuration and technical specifications

Equipment model		HT-JC6×8/2
Welding Dimension		2D
Welding thickness (mm)		6
Working table (width × length) (mm)		600×800
Gantry net height (mm)		200~500
Stroke	X（mm）	800
	Y（mm）	600
	Z（mm）	300
	C（°）	n×360
	B（°）	0~5
Speed	X（mm/min）	7000
	Y（mm/min）	7000
	Z（mm/min）	3000
	B（rpm）	Manual
Maximum spindle speed（rpm）		6000
Dimensions（mm）		3500×2500×2700

Key components and parts configuration：

High precision machine bed

Milling and welding integration

High-end Siemens motorized spindle

High-end Siemens NC system

Centralized lubrication system

FAG bearing

Schneider Electric components

Optional configuration

High speed welding spindle (mechanical)	Maximum rotation speed: 4000rpm
High speed welding spindle (motorized spindle)	Maximum rotation speed: 6000rpm
BTFSW/MFSW system	High efficiency as well as high quality welding of hollow profile
SSFSW system	Flash-free, high quality welding
Spray cooling system	Welding parts and welding tool’s effective cooling
Circulating cooling system	Workpiece gas cooling, spindle circulating cooling system
Constant temperature and humidity electric control system	Stable environment of control system
Constant pressure control system	Intelligent real-time press-in adjustment
Technology parameters intelligent system	Welding process parameters record and extract
Video monitoring system	On line real-time process monitoring
Automatic tool changing system	complete tool changing within only 2 seconds, fast and convenient
Milling and welding knife handle integration	Easy switch between functions
Laser tracking system	Real time tracking and position adjustment
Compress system during welding	Compress clamp during welding to ensure assembly and improve quality

Welding tools

SSFSW Welding tool

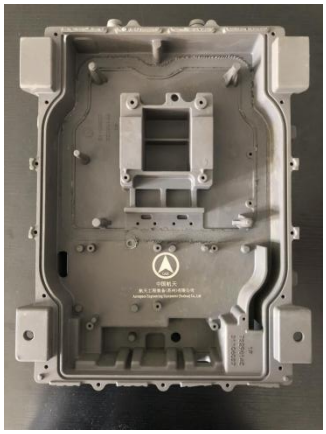
MFSW Welding tool

Applicable Products

Battery pack

Motor shell

Radiator



Electric controller

Thrust rod

After-sales service

- The warranty period for our equipment is 12 months.
- Service requires a response within 12 hours, arrival at customer's site within 48 hours（after-sales service center in Germany: OUBO Technology GmbH）
- Scientific, comprehensive and systematic friction stir welding technical service and support.

Contact info:

German Agent：	OUBO Technology GmbH
Address:	Rohrzieherstr. 6
	D - 47877 Willich,
	Germany
Tel:	0049-02154-8941488
Fax:	0049-02154-8941411
E-mail：	info@oubo-technology.de
Website:	www.oubo-technology.com

China Headquarters：Aerospace Engineering Equipment (Suzhou) Co.,Ltd.

Address:	No.81, North Guandu Road, Wuzhong District, Suzhou,China
Postcode:	215104
Tel:	0086-0512-66018100
Fax:	0086-0512-66018200
E-mail：	jihua@oubo-technology.de
Website:	www.aeespace.com