

# iOrbital 5000

## Programmable Orbital Welding Power Source

### Technical specification

Type	Inverter
Welding current	5~500A
Duty cycle(40° C)	500A 60% 387A 100%
Open circuit voltage	72V
Mains power supply(wave)	3x380V ( -15% ~ +15% ) 50
Max. power	34KW
Cosφ/efficiency	0.98/78%
Insulation/Protection	F/IP23
Working environmental temperature	-10℃~+40℃
Transportation & store temperature	-25° C~+55° C
Power source/weld head cooling	Air/Air or water
Screen	10.4" color touch screen
Control function	Gas/Current /Rotation/ Wire feeding/ AVC&OSC
Program storage	999
Section	20
Printing	Integrated printer
Water pump lift	30m/0.3MPa
Water tank capacity	15L
Weight(without coolant)	110kg
Standard	GB15579.1-2013, IEC60974/IEC



## Summary

iOrbital 5000 distributed orbital welding power source is an automatic programmable power source designed by Kun shan Huaheng Welding Co., Ltd. adopting the world's most advanced technology. This power source is using popular inverter and computer science technology and the big colorful touch screen as HMI, which is the pioneer in this industry. It has accurate controlling of welding current, rotation, wire feeding, OSC, AVC, shielding gas and compress gas. It could be used with all TC products, TOK products, TOA products, TP060/TP040 and GT60 welding head that manufactured by Huaheng Welding Co., Ltd. It usually applies in the tube/tube, tube to tube-sheet welding of chemical industry, food industry, medical industry, electric pipe-line, all sorts of heat exchangers, engineering machinery, boiler, locomotive, military industry and nuclear power industry etc.



## Features

- Controlling interface including: WORK, PROGRAM, CONFIGURATION, FILE, LIBRARY, HELP;
- Auto-generate the welding parameter for tube/tube-sheet, and thin wall tube/tube welding;
- Intelligent AVC function and carry out mechanism;
- Real time detect and feedback of error like arcing fail, short circuit, over heat, over voltage, lack of gas, lack of water, lower voltage, arc extinguish, communication error etc;
- Import/export welding program by USB driver, easy to switch between different programs;
- Memory of the program editing while welding, and display the difference to original program;
- Parameter like weaving speed/center/width, current, rotation speed can be adjusted while welding to achieve special requirement of some welding seam;
- Online and USB driver upgrade function and offline program function.