

TC Series Sealed Orbital Tube Welding Head

Our Product Introduction

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Basic Information

- Brand Name: HUAHENG
- Model Number: TC series



Product Specification

- Weldable Material: Carbon Steel, Stainless Steel, Titanium Alloy
- Protective Gas: Argon
- Cooling Method: Water
- Cooling Flow(ml/min) : ≥ 300
- Highlight: **Orbital Tube Welding Head,
TC Series Tube Welding Head**



More Images



Product Description

Description

Our Product Introduction

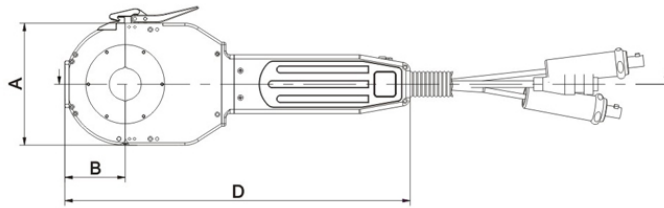
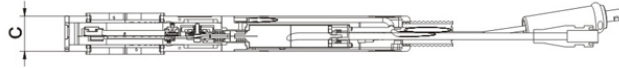


The welding head is a special welding head for orbital automatic tungsten arc welding(without welding wire)designed for the butt joint of various pipe fittings.Before welding,the sealing cavity is filled with protective gas to ensure that the welding seam is well protected.And according to customer requirements,we can customize the compound fixture within the pipe diameter range.This fixture system can ensure the precise positioning of the welded parts without the need for positioning spot welding,so as to provide customers with high-efficiency and high-quality special welding guns.This machine can be used with Tube Master200,iOrbital4000,iOrbital5000 program-controlled welding power sources,and can precisely realize all-position TIG tube/tube welding,with high reproducibility of welding results and ideal welding results.Mainly used in electronics,instrumentation,pharmaceutical,engineering installation,military and nuclear power industries.

Technical parameter

	TC26	TC36	TC76	TC156	TC-2	TC-3	TC-4
Weldable material	Carbon steel, stainless steel, titanium alloy	Carbon steel, stainless steel, titanium alloy	Carbon steel, stainless steel, titanium alloy	Carbon steel, stainless steel, titanium alloy	Carbon steel, stainless steel, titanium alloy	Carbon steel, stainless steel, titanium alloy	Carbon steel, stainless steel, titanium alloy
Weldable tube diameter(mm)	Φ6 Φ22(1/4" 7/8")	Φ6 Φ32(1/4" 1 1/4")	Φ19.05 Φ63.5(3/4" 2 1/2")	Φ50.8 Φ168.3(2" 65/8")	Φ12.7 Φ50.8(1/2" 3")	Φ19.05 Φ7(3/4" 3")	Φ38.1 Φ101.6(2" 4")
Tungsten OD(mm)	Φ1.0 Φ1.6	Φ1.6 Φ2.4	Φ1.6 Φ2.4	Φ2.4 Φ3.2	Φ1.6 Φ2.4	Φ1.6 Φ2.4	Φ2.4 Φ3.2
Rotation speed(rpm)	0.6 12	0.3 6	0.2 6	0.06 1.2	0.24 4.8	0.2 4	0.095 1.9
Protective gas	Argon	Argon	Argon	Argon	Argon	Argon	Argon
Cooling method	water cooling	water cooling	water cooling	water cooling	water cooling	water cooling	water cooling
Cooling flow(ml/min)	≥300	≥300	≥300	≥300	≥300	≥300	≥300
Rated current	60A duty cycle 60%	65A duty cycle 60%	75A duty cycle 60%	100A duty cycle 60%	75A duty cycle 60%	75A duty cycle 60%	100A duty cycle 60%
Main dimensions(mm)							
A	80	98	145	295	135	160	195
B	40	47	72	150	65	79	97
C	40	41	43	61	38	38	57
D	340	360	412	630	426	453	497
Weight(kg)	2.0(without cable)	2.0(without cable)	3.0(without cable)	10.5(without cable)	2.5(without cable)	3.5(without cable)	6(without cable)
Dimension(mm)	340*80*40	360*120*41	412*165*43	630*330*61	426*155*38	453*177*38	497*230*57

The main part of the welding head is made of aluminum, and the structure is light;
The sealed design is adopted, and the protection effect is more sufficient;
Patented flexible automatic centering fixture, precise positioning;
Suitable for tube welding of thin-walled carbon steel, stainless steel, titanium and titanium alloys;
Self fusion welding method;
Equipped with operation buttons on the welding head, the welding head is easy to use and suitable for on-site installation.



HUAHENG Kunshan Huaheng
Welding Co., Ltd.

+86 13962665533

huaheng1995@gmail.com

No.99 WuSongJiang
Road, KunShan,
JiangSu, PR.China
PC.215334