Basic Information



Product Specification

Weldable Material: Carbon Steel, Stainless Steel, Titanium Alloy

Tube OD(mm): Φ6 Φ22(1/4" 7/8")
 Weight(kg): 2.0(no Cable)
 Dimension(mm): 340*80*40

Highlight: Automatic Tube Welding Head,
 TC26 Tube Welding Head

Product Description

Description



The welding head is a specialized welding head designed for the butt joint of various pipe fittings, specifically for orbital automatic tungsten arc welding without welding wire. Prior to welding, the sealing cavity is filled with protective gas to ensure excellent protection of the weld seam. welding window welding wire. From to welding, the sealing carry is lined with protective gas to ensure excellent protection or the weld seals. According to customer requirements, we can customize the compound fixture within the specified pipe diameter range. This fixture system can precisely position the welded parts without the need for positioning spot welding, thereby providing customers with high-efficiency and high-quality special welding guns. This machine can be used in conjunction with Tube Master200, iOrbital4000, and iOrbital5000 program-controlled welding power sources, enabling precise all-position TIG tube-to-tube welding. It features high reproducibility of welding results and ideal welding outcomes. It is mainly employed in industries such as electronics, instrumentation, pharmaceuticals, engineering installation, military, and nuclear power.



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.

	TC26	TC36	TC76	TC156	TC-2	TC-3	TC-4
	Carbon	Carbon	Carbon	Carbon	Carbon	Carbon	Carbon
	steel,	steel,	steel,	steel,	steel,	steel,	steel,
	stainless	stainless	stainless	stainless	stainless	stainless	stainless
material	steel,	steel,	steel,	steel,	steel,	steel,	steel,
	titanium	titanium	titanium	titanium	titanium	titanium	titanium
	alloy	alloy	alloy	alloy	alloy	alloy	alloy
Weldable	Φ6	Ф6	Ф19.05	Ф50.8	Ф12.7	Ф19.05	Ф38.1
tube diameter(m	Φ22(1/4"	Ф32(1/4" 1	Ф63.5(3/4"	Ф168.3(2"	Φ50.8(1/2	Φ7(3/4"	Ф101.6(2"
m)	7/8")	1/4")	2 1/2")	65/8")	" 3")	3")	4")
Tungsten OD(mm)	1.0 Ф1.6	Ф1.6 Ф2.4	Ф1.6 Ф2.4	Ф2.4 Ф3.2	Ф1.6 Ф2.4	Φ1.6 Φ2. 4	Ф2.4 Ф3.2
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	water	water	water	water	water	water	water
method	cooling	cooling	cooling	cooling	cooling	cooling	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%			100A duty cycle 60%
Main dimensions (mm)		,	,	,		,	,
Α	80	98	145	295	135	160	195
В	40	47	72	150	65	79	97
С	40	41	43	61	38	38	57
D	340	360	412	630	426	453	497
Weight(kg)	2.0(withou t cable)	2.0(without cable)	3.0(without cable)	10.5(withou t cable)	2.5(withou t cable)	3.5(witho ut cable)	6(without cable)
Dimension(mm)	340*80*40	360*120*4 1	412*165*4 3	630*330*61	426*155*3 8	453*177* 38	497*230*5 7







