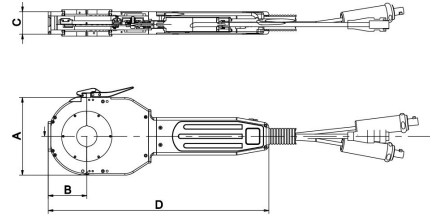


Closed Series

Tube/Tube Orbital Weld Head



Summary

This welding head is specially designed orbital TIG welding head without wire feeding for kinds of pipe fitting. The sealed cavity is filled with protective gas before welding to ensure the quality of welds. This is one high efficiency and high quality welding head with water cooling for welding head & collect and special made collects according to customers' requirements which could ensure accurate positioning without pre-tack. They are compatible with iOrbital200, Tube Mater 200, iOrbital4000, iOrbital5000 programmable Orbital Welding Power Source, and mainly apply in Electronic, instrument, pharmaceutical, engineering installation, military, nuclear and so on.

Features

- Aluminum body, light structure;
- Close design, better protection;
- Pattern design of the self-align collet, accurate positioning;
- Suitable for thinner wall mild steel, stainless steel, Titanium tube welding;
- Fusion welding without wire feeding;
- Control button on the weld head, capable for onsite installation.



Technical specification

	TC-500	TC26	TC36
Material	Carbon steel, Stainless steel, Titanium alloy	Carbon steel, Stainless steel, Titanium alloy	Carbon steel, Stainless steel, Titanium alloy
Tube OD (mm)	Φ6-Φ12.7 (1/4" -1/2")	Φ6-Φ25.4 (1/4" -1")	Φ6-Φ38.1 (1/4" -1.5")
Tungsten OD (mm)	Φ1.0	ε 1.0、Φ1.6	ε 1.6、Φ2.4
Rotation speed (rpm)	0.06 - 1.2	0.6-12	0.3-6
Protective gas	Ar	Ar	Ar
Cooling	Air	Water	Water
Cooling flow (ml/min)	≥300	≥300	≥300
Rate current	30A 60%	60A 60%	65A 60%
A	65	80	98
B	24	40	47
C	12.5	40	41
D	314	340	360
Weight (kg)	1.3 (no cable)	2.0 (no cable)	2.0 (no cable)
Dimension(mm)	314 × 65 × 42	340 × 80 × 40	360 × 120 × 41

Technical specification

	TC-2	TC-3	TC-4	TC156
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
Tube OD (mm)	Φ12.7-Φ50.8 (1/2" -2")	Φ12.7-Φ76.2 (1/2" -3")	Φ38.1-Φ101.6 (1 1/2" -4")	Φ50.8-Φ152.4 (1 1/2" -4")
Tungsten OD (mm)	ε 1.6、Φ2.4	ε 1.6、Φ2.4	ε 2.4、Φ3.2	ε 2.4、Φ3.2
Rotation speed (rpm)	0.24-4.8	0.2-4	0.095-19	0.06-12
Protective gas	Ar	Ar	Ar	Ar
Cooling	Water	Water	Water	Water
Cooling flow (ml/min)	≥300	≥300	≥300	≥300
Rate current	75A 60%	75A 60%	100A 60%	100A 60%
A	135	160	195	295
B	65	79	97	150
C	38	38	57	61
D	426	453	497	630
Weight (kg)	2.5 (no cable)	3.5 (no cable)	6.0 (no cable)	10.5 (no cable)
Dimension(mm)	426 × 155 × 38	453 × 177 × 38	497 × 230 × 57	630 × 330 × 61