## **TOA series**

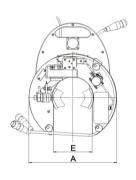
Open Tube to Tube Welding Head

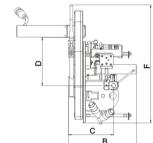
## **Brief Introduction**

This welding head is special designed for tube to tube TIG welding, suitable for carbon steel, stainless steel tube to tube connection, mainly for wire feeding or self-fusion, option of TB150 integrated wire feeder and HWT10 external wire feeder with AVC & OSC function.

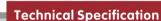
Support equipment: i-Arc400 Programmable Orbital Welding

Application: chemical, food, medicine, engineering installation, boiler, military, nuclear and so on.









	TOA77	TOA130	TOA180	TOA230	TOA320
Material	104//		on steel, stainless steel	10/1200	10/10/20
Inner clamp: Inner					
Tube OD (mm)  Tungsten diameter (mm)	Φ19.05 ~ Φ45 (3/4" ~1 3/4")	Ф38.1~ Ф76 (1 1/2"~3")	Φ50.8 ~ Φ114.3 (2" ~ 4 1/2" )	Φ120 ~ Φ178 (4 1/2" ~ 7")	Ф150 ~ Ф230 (6" ~ 9")
	Outer clamp:	Outer clamp:	Outer clamp;	Outer clamp:	Outer clamp:
	Φ45 ~ Φ77 (13/4" ~ 3")	Φ76 ~ Φ130 (3" ~ 5" )	Φ114.3 ~ Φ180 (41/2" ~ 7")	Ф178 ~ Ф230 (7" ~ 9")	Ф230 ~ Ф324 (9" ~ 12 3/4")
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	Φ2.4、Φ3.2	Φ2.4、Φ3.2	Ф2.4、Ф3.2	Ф2.4、Ф3.2	Ф2.4、Ф3.2
Rotation speed (rpm)	0.19 ~ 3.8	0.11 ~ 2.2	0.09 ~ 1.8	0.05 ~ 1.0	0.026 ~ 0.52
Protective gas	Ar	Ar	Ar	Ar	Ar
Cooling	Water	Water	Water	Water	Water
Cooling flow (ml/min)	≥600	≥600	≥600	≥600	≥600
OSC width (mm)	20	40	40	40	40
AVC height (mm)	40	40	40	40	40
Wire diameter (mm)	Φ1.0 (standard)	Φ1.0 (standard)	Φ1.0 (standard)	Φ1.0 (standard)	Φ1.0 (standard)
Max wire feeding speed (mm/min)	1800	1800	1800	1800	1800
Dimension (mm)					
Α	220	300	375	425	550
В	180	235	285	300	315
С	112 ~ 132	132 ~ 172	184 ~ 224	195 ~ 235	230 ~ 270
D	92	165	225	250	297
E	82	132	182	232	328
F	320	400	525	570	680
Weight (kg)	5.5 (no cable)	10.8 (no cable)	19.5 (no cable)	21.5 (no cable)	36 (no cable)
Dimension (mm)	370×220×320	435 × 300 × 400	445 × 375 × 525	465 × 425 × 570	430 × 610 × 680

