

Aristo® Tig 4000i

Optimum welding solutions

Robust and powerful

Aristo® Tig 4000i is a ideal partner when it comes to efficient production indoors or outdoors, installation on site or all type of repair & maintenance welding.

The power source is a compact and sturdy piece of equipment with a chassis made of extruded aluminium sections: **Alutech™**. This is a robust material that withstands rough treatment.

The power source is based on inverter IGBT technology that provides reliable equipment with outstanding welding characteristics.

The communications and control CAN-bus system means less cables, which in turn increases operational reliability.

MMA applications

Aristo® Tig 4000i can weld most metals to alloyed and non alloyed steel, stainless steel and cast iron.

Electrodes up to 6 mm and Gouging electrodes up to 8 mm.

Flexibility

The fundamental part is the 400 A power module. The link between man and machine is the communicator. You can choose between 2 control panels (MMC) depending upon your requirements and demands. Both of them are clear, easy to understand and to operate.

Aristo® TA4 is a one knob panel for setting and adjustment of current. 3 soft buttons provides setting and adjustments of Arc force, Hot start, gas pre/post flow, Slope up/down, HF/Lift Arc and 2/4 stroke.

Aristo® TA6 is a more sophisticated panel with additional possibilities:

Choice of electrode type, gas purge, memory of 10 welding parameters and pulse TIG.

Inclusive for both panels is a digital display for A/V measurement.

Applications

- **TIG (root passes) and MMA (Cellulosic electrodes) for pipelines**
- **Prefabrication for shipbuilding and offshore**
- **Pressure vessels, tanks and apparatuses for the process industry**
- **R & M at the process industry**
- **Erect and repair of power plants**



Water cooling unit

Aristo® Tig 4000iw includes a water cooling unit to accept the use of a water cooled TIG torch.

- **Outstanding welding characteristics**- high efficiency and high quality welding.
- **Efficient Man Machine Communication** by the user-friendly control panels **Aristo® TA4** and **Aristo® TA6**
- **Aristo® TA6** enable a memory of **10 welding parameters** and the possibility to weld with pulse technique especially suited for thin materials.
- **Enclosure class IP 23**
- **Adjustable pre-gas, slope-up, post-gas and slope down** to control the starts and avoid cracks and oxidation at the end
- **Dust filter** to handle tough and dirty environment and avoid grinding-dust and metal particles inside the chassis

Technical data

Mains Voltage, V/Hz	Aristo® Tig 4000i 3x400, 50/60
Fuse, anti-surge, A	20
Mains cable, mm ²	4x4
Setting range, A	4-400
Permitted load, 40 °C	
at 35% duty cycle TIG, A/V	400/26
at 60% duty cycle TIG, A/V	320/23
at 100% duty cycle TIG, A/V	250/20
Open circuit voltage, U ₀ max	
Without VRD function ¹⁾	78-90 V
MMA VRD function deactivated ²⁾	58 V
VRD function activated ²⁾	<35 V
Energy save mode, W	60
Apparant power at max, kVA	18.6
Power factor at maximum current	0.9
Efficiency at maximum current, %	86
Dimensions l x w x h, mm	625 x 394 x 496
Enclosure class	IP 23
Insulation class	H
Operating temperature	-10 to +40°C
Weight, kg	61.5
incl. Water cooling unit	81.5
Application class	S
Standards	IEC/EN 60974-1-2-3-10

¹⁾ Valid for power sources without VRD specifications on the rating plate.

²⁾ Valid for power sources with VRD specifications on the rating plate. The VRD function is explained in the instructions manual for the control panel if the panel has that function.



Ordering information

Aristo® Tig 4000iw TA4	0458 630 881
Aristo® Tig 4000iw TA6	0458 630 885

Accessories

Multi Voltage unit, Wide body (3x208/230/400/460/475/575V, 50/60 Hz)	0459 145 880
Handle incl mounting screws for separate installation. (Complete set = 2)	0459 307 881
Trolley	0458 530 881
Remote adapter RA 12 (12 pole) for connection of analogue remotes	0459 491 910
Remote control AT1 CAN for current control	0459 491 883
Remote control AT1 CourseFine CAN for course/fine current control	0459 491 884
Interconnection cables AT1 and AT1 CourseFine	
0.25 m	0459 554 884
5 m	0459 554 880
10 m	0459 554 881
15 m	0459 554 882
25 m	0459 554 883
Foot pedal T1 Foot CAN incl 5 m, 12-pole	0460 315 880

Options:

Water Flow guard complete	0456 855 880
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Delivery content: 5 m mains cable incl plug and 5 m return cable incl earth clamp.

Unrivalled service and support

Our commitment and ability to deliver the expected service and support starts immediately after the order is confirmed. We endeavour to offer our customers an After Sales service, which is second to none. A strong and skilful service organisation is prepared to offer service and maintenance, calibration, validation and upgrading of equipment and software.

The service organisation will offer standardised solutions for the reconditioning or modification of existing products.

Spare and wear parts are manufactured according to ESAB's quality plan. Exchange Printed Circuit Board (PCB), exchange modules and components are available for all our products in order to reduce downtime to an absolute minimum. ESAB is continuously upgrading authorised service partners for local service support. Customers who have their own service and maintenance personnel will always be offered a service-training package as part of a total ESAB offering. However, product and process training for end-users will form an additional part of the ESAB offering. Always ask your ESAB sales representative or distributor for a complete ESAB solution.



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