

Aristo® Mig 4004i Pulse

New edition power source with focus on Aluminium and Stainless Steel applications



The new edition of the Aristo® 4004i Pulse power source provides substantially improved arc welding performance. It's designed for high-productivity and high-quality welding applications.

The Aristo power source integrates fully with ESAB's industry-leading WeldCloud™ online data management platform via Wi-Fi, mobile cellular or hard-wired Ethernet communication.

- Advanced pulse functionality reduces heat input and minimizes spatter
- Up to 250 pre-programmed synergic lines (U8₂ Plus)
- QSet™ intelligent welding system
- Crater filling and adjustable burn back time for defect-free weld terminations
- Pre- and post-gas flows
- Improved power factor of 0.95 and an efficiency of 89.5%
- TrueArcVoltage™ system measures the correct arc voltage at the contact tip (together with ESAB torches)

Visit esab.com for more information.

Industry

- General Industrial Fabrication
- Energy
- Windtowers
- Transportation
- Railcars
- Mining
- Mobile Machinery
- Steel Industry
- Ship/Barge Building
- Offshore Oil



Aristo Mig 4004i Pulse with WeldCloud™ Top Box

| Specifications | | | |
|---|---|-------------|----------------------|
| Mains Voltage | 380 – 460 V | | |
| Number of Phases | 3 ph | | |
| Supply Frequency | 50/60 Hz | | |
| Fuse Slow | 20 A | | |
| Welding Output | 300 A / 29 V at 100% Duty Cycle 400 A / 34 V at 60% Duty Cycle | | |
| Setting Range MIG/MAG & MMA | 16 – 400 A | | |
| Setting Range TIG | 4 – 400 A | | |
| Open Circuit Voltage | 55 V | | |
| Open Circuit Voltage VRD | <35 V | | |
| Rated kVA | 16.0 kVA | | |
| Energy Save Mode | 40 W | | |
| Efficiency at Max Current | 89.5% | | |
| Power Factor at Max Current | 0.95 | | |
| Dimensions L x W x H | 610x250x445 mm | | |
| Weight with / without COOL 1 | 58 kg / 44.5 kg | | |
| Operating Temperature | -10 to +40 °C | | |
| Enclosure Class | IP23 | | |
| Application Class | S | | |
| Insulation Class | H | | |
| Certification Mark (Standards) | CE | | |
| Recommended Mains Cable Cross Section | AWG 10, (4x 4,0 mm ²) | | |
| COOL 1 Water Cooling Unit (Optional) | | | |
| Supply Voltage | 24 VDC | | |
| Cooling Capacity | 1.3 kw | | |
| Coolant Volume | 4.5 l | | |
| Max Flow | 3.0 l/min | | |
| Max Pressure | 4.5 bar | | |
| Max Torch Height | 8.5 m | | |
| Weight with / without Coolant | 16,5 kg / 12 kg | | |
| Dimensions incl. filler tube L x W x H | 610 x 256 x 256 mm | | |
| Aristo® Feed 3004 / 4804 | | | |
| Supply Voltage | 42 VAC | | |
| Wire Spool Capacity | 18 kg | | |
| Max Spool Diameter | 300 mm | | |
| Wire Feed Speed | 0.8 – 25.0 m/min | | |
| Dimensions L x W x H | 690 x 275 x 420 mm | | |
| Weight 3004 / 4804 | 15 kg / 19 kg | | |
| Wire Dimensions | 3004 | 4804 | YardFeed 2000 |
| Steel / Stainless Steel | 0.6 – 1.6 | 0.6 – 2.4 | 0.6 – 1.2 |
| Aluminium | 0.9 – 1.6 | 1.0 – 2.4 | 1.0 – 1.6 |
| Cored Wire | 0.8 – 1.6 | 0.8 – 2.4 | 0.8 – 1.4 |

Ordering Information

| | |
|--|------------|
| Aristo® Mig 4004i Pulse (460V CE) | 0465152883 |
| Aristo® Mig 4004i Pulse (460V CE with WeldCloud™ Top Box*) | 0445301880 |

* For more information on WeldCloud™ online weld management platform see separate fact sheet.

Options & Accessories

| | |
|---------------------------------------|------------|
| Quick Connector Marathon Pac™ | F102440880 |
| Remote Control MTA1 CAN | 0459491880 |
| Remote Control MT1 10Prog. CAN | 0459491882 |
| Remote Interconnection Cable 5 m | 0459960880 |
| Remote Adapter Kit Miggytrac/Railtrac | 0459681880 |
| PP Connection Kit, basic | 0459020883 |
| PP Connection Kit, remote WFS | 0459681881 |
| COOL 1 Water Cooler | 0462300880 |
| COOL 1 Flow Guard | 0456855881 |
| Retrofit Mig 4004i WeldCloud™ | 0445302881 |
| USB Memory 2GB for WeldCloud™ | 0462062001 |

Wire Feeder Accessories

| | |
|--|------------|
| Strain Relief for Welding Torch | 0457341881 |
| Strain Relief for Interconnection Cables | 0459234880 |
| Lifting Eye | 0458706880 |
| Adapter for 5kg Spool | 0455410001 |
| Spool Cover | 0458674880 |
| Spool Cover, Steel | 0459431880 |
| Adapter for Spool Diameter 440 mm | 0459233880 |
| Wheel Kit for Feeder | 0458707880 |

For complete list of wire feeder accessories please see separate fact sheet.

Wire Feeder & Control Panel

| Feeders | Air cooled | Water cooled |
|--|------------|--------------|
| Aristo® Feed 3004, MA25 Steel | 0460526672 | 0460526673 |
| Aristo® Feed 3004, MA25 Aluminium | 0460526670 | 0460526671 |
| Aristo® Feed 3004, U6 Encl. 10 pole | 0460526886 | 0460526896 |
| Aristo® Feed 3004, M0 Encl. 10 pole | 0460526881 | 0460526891 |
| Aristo® Feed 4804w, U6 Encl. 10 pole | - | 0460526996 |
| Aristo® Feed 4804w, M0 Encl. 10 pole | - | 0460526991 |
| Aristo® YardFeed 2000w, U6 Encl. 10 pole | - | 0459906896 |
| Aristo® U82 | | |
| Aristo® U82 complete incl. holder | 0460820880 | |
| Aristo® U82 Plus complete incl. Holder | 0460820881 | |
| Control cable extension U82 7.5 m | 0460877891 | |

| Wire Feeder Accessories | |
|--|------------|
| Interconnection Cables 10 pole | |
| 50mm ² for YardFeed 10 m, air cooled | 0459528562 |
| 50mm ² for YardFeed 15 m, air cooled | 0459528563 |
| 50mm ² for YardFeed 25 m, air cooled | 0459528564 |
| 50mm ² for YardFeed 35 m, air cooled | 0459528565 |
| 50mm ² for YardFeed 10 m, water cooled | 0459528572 |
| 50mm ² for YardFeed 15 m, water cooled | 0459528573 |
| 50mm ² for YardFeed 25 m, water cooled | 0459528574 |
| 50mm ² for YardFeed 35 m, water cooled | 0459528575 |
| 70mm ² for Feed 3004/4804 1.7 m, air cooled | 0459528780 |
| 70mm ² for Feed 3004/4804 5.0 m, air cooled | 0459528781 |
| 70mm ² for Feed 3004/4804 10 m, air cooled | 0459528782 |
| 70mm ² for Feed 3004/4804 15 m, air cooled | 0459528783 |
| 70mm ² for Feed 3004/4804 25 m, air cooled | 0459528784 |
| 70mm ² for Feed 3004/4804 35 m, air cooled | 0459528785 |
| 70mm ² for Feed 3004/4804 1.7 m, water cooled | 0459528790 |
| 70mm ² for Feed 3004/4804 5.0 m, water cooled | 0459528791 |
| 70mm ² for Feed 3004/4804 10 m, water cooled | 0459528792 |
| 70mm ² for Feed 3004/4804 15 m, water cooled | 0459528793 |
| 70mm ² for Feed 3004/4804 25 m, water cooled | 0459528794 |
| 70mm ² for Feed 3004/4804 35 m, water cooled | 0459528795 |

| Trolley & Trolley Accessories | |
|---|------------|
| Trolley 4-wheel 4004i/5004i | 0462151880 |
| Bracket for Trolley 4-wheel 4004i/5004i (without COOL 1) | 0463125880 |
| Trolley 4-wheel 4004i Pulse for WeldCloud™ Top Box | 0445499880 |
| Trolley 4-wheel 4004i Pulse for WeldCloud™ Top Box and COOL 1 | 0445499881 |
| Trolley, 4-wheel 3001i/4004i/5004i for Counterbalance Arm | 0460565880 |
| Trolley, 2-wheel 3001i/4004i/5004i for YardFeed/MobileFeed | 0460564880 |
| Bracket Kit 3001i/4004i/5004i for assembling power source to 2/4-wheel trolley ** | 0461310880 |
| Stabilizer Kit 3001i/4004i/5004i for Counterbalance Arm | 0460946880 |
| Counterbalance Arm* | 0458705880 |

* Requires Trolley and Stabilizer Kit

** Bracket Kit is required for Counterbalance Arm



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