



# WITH RENEGADE

## RENEGADE™

# RENEGADE: TIG AND MMA TO GO.

**Welders are always on the go. They go fast. They go far. They go hard. They need a machine that can keep up. That machine is Renegade.**

## WELD ON THE MOVE.

As the most compact and lightweight welder in its class, Renegade is the definition of a field machine. Three handles make it easy to grab, push, pull, or throw it over your shoulder so you can get to hard-to-reach areas that have limited access.

**Extremely compact and lightweight** – Renegade weighs in at only 15–17kg (depending on model) and measures just 460mm by 200mm by 320mm – giving it the smallest footprint, compared to competitors, and simplifying trolley manoeuvres when using it as a water-cooled system.

**Easy to carry** – The three-handle roll cage design lets you either lift with one hand, with both hands, or by crane. If slinging it over your shoulder and going hands-free is ideal, the padded shoulder strap is as comfortable as they come.

## POWER TO THE WELDER.

The Renegade family has three models: ES 300i for MMA, ET 300i for HF TIG (not stocked in Australia) and ET 300iP for HF TIG, Pulse and MMA applications.

**Outstanding power and reach** – Run 300 Amps at 40% duty cycle with mains and welding cables up to 100m, making this a superior welding machine for both on and off-site applications.

**Extreme multi-voltage capabilities** – Connects to 415v 3Phase power with the convenience of a wide input voltage tolerance (208v to 528v three phase) with auto sensing functionality. The Renegade also has the ability to run on 240v single phase inputs.

## BUILT FOR THE HARSHTEST ENVIRONMENTS.

**Impact and drop tests** – The composite casing has been designed not only to meet the highest expectations for durability in rough environments, but to exceed them.

**Ready for extreme temperatures** – Renegade is designed for extreme conditions, like temperatures up to 55°C.

**Heavy-duty connectors for coolers and remotes** – All parts are robust, reliable, and easy to connect and disconnect, over and over again.









## CONVENIENCE AND CONTROL ARE IN YOUR HANDS.

**Best-in-class weld starts** – Soft yet distinct starts, regardless of the process, every time you strike an arc.

**Intuitive interface** – The machine's digital readout display, along with large buttons and controls, make it easy to set parameters and read them from a distance and in any light. This quick set panel increases accuracy and reduces downtime.

**Cable management** – An integrated latch system helps control cables so they can be secured to the machine, making it easy to pack up and go.

**Quick setup** – Little training is required with Renegade's simple setup and easy access to all important settings.

**High-speed machine-to-arc communication** – Renegade reads the arc faster than most machines, equating to better control, higher travel speed, a more stable arc, and virtually no spatter in MMA mode.



## OUTSTANDING DC TIG PERFORMANCE.

Excellent TIG operational range from 5 to 300 Amps, you'll have the confidence to tackle a broad range of material thicknesses.

**Arc starts** – Strike the TIG arc using high frequency (HF) start sequence, which guarantees no tungsten inclusions. Switch to LiftTIG for applications where HF is not permitted.

**Pulse TIG** – For TIG welding on thin material, choose the ET 300iP and use the pulse functionality with a frequency of up to 999 Hz for superior arc handling, controlled heat input, and increased travel speed.

**TIG settings** – Adjust pre- and post-gas flow easily for protection of the weld pool. Adjust slope up/slope down for maximum weld quality.

**Extreme flexibility** – In mere minutes and without tools, Renegade goes from a water-cooled system hooked up to a trolley to an air-cooled portable machine.

**Foot pedal** – For TIG applications, the foot pedal keeps both hands free to control the arc and feed the filler metal.

**When you choose this top-notch machine, you will want top-notch ESAB filler metals to match. Go with our wide selection of TIG rods and MMA electrodes. Visit [esab.com/fillermetals](http://esab.com/fillermetals).**





## MAXIMUM MMA CAPABILITIES.

**Best-in-class MMA performance** – Built-in intelligence that optimises start and stop performance and controls arc stability.

**Excellent cellulosic performance (E6010 and E6011)** – Renegade ES 300i provides higher arc voltage and longer arc length for a soft arc with impeccable starts and stops.

**Arc force** – Controls the drop transfer to provide a softer or crisper arc.

**Hot start** – Automatically adjusts your output which keeps the electrode from sticking to the workpiece.

**Remote control** – Complete with digital display, the remote serves up real-time weld settings when working away from the power source.

**VRD** – Standards compliant Voltage Reduction Device. Virtually eliminates electric shocks when not welding (Stick Mode).

**Arc Gouging** – Works with rods up to 6mm.





# THE BEST OF THE REST.

| PROCESS       | ES 300i | ET 300iP |
|---------------|---------|----------|
| DC TIG Pulsed |         | X        |
| DC TIG        | X       | X        |
| MMA           | X       | X        |

| TIG STARTS          | ES 300i | ET 300iP |
|---------------------|---------|----------|
| High Frequency (HF) |         | X        |
| LiftTIG             |         | X        |
| LiveTIG             | X       |          |

| MATERIAL        | ES 300i | ET 300iP |
|-----------------|---------|----------|
| Mild Steel      | X       | X        |
| Stainless Steel | X       | X        |

| PACKAGE FEATURES                                    | ES 300i | ET 300iP |
|-----------------------------------------------------|---------|----------|
| Pulse Settings                                      |         | X        |
| High Frequency Pulse                                |         | X        |
| Adjustable Pre-flow/Post-flow                       |         | X        |
| Adjustable Slope Up/Slope Down                      |         | X        |
| 2-Stroke (2T) / 4-Stroke (4T) Trigger Functionality |         | X        |
| Foot Pedal Compatible                               |         | X        |
| Remote Control Compatible                           | X       | X        |
| Water-Cooled Option                                 |         | X        |
| Digital Display                                     | X       | X        |
| Cellulosic Weld Optimisation (MMA)                  | X       |          |
| Adjustable Hot Start                                | X       | X        |
| Adjustable Arc Force                                | X       | X        |
| Auto Voltage Detection (1Phase & 3Phase)            | X       | X        |
| VRD (Voltage Reduction Device)                      | X       | X        |
| Arc Gouging (Up to 6mm Rods)                        | X       | X        |

To see Renegade in action, visit [esab.com/renegade](https://esab.com/renegade).

| TECHNICAL DATA                                                            |                                              |
|---------------------------------------------------------------------------|----------------------------------------------|
| Primary Voltage 1ph                                                       | 230 VAC +/-10%                               |
| Primary Voltage 3ph                                                       | 230-480 VAC +/-10%                           |
| Supply Frequency                                                          | 50/60Hz                                      |
| Energy Save Mode - ES 300i<br>ET 300iP                                    | 91W<br>88W at 400V                           |
| Rated kVA                                                                 | 11.3kVA                                      |
| Maximum Output                                                            | 300A                                         |
| Power Factor at Max Current                                               | 0.96                                         |
| Efficiency at Max Current MMA<br>ES 300i<br>ET 300iP                      | 89%<br>84%                                   |
| Efficiency at Max Current TIG<br>ES 300i<br>ET 300iP                      | 85%<br>88%                                   |
| Open Circuit Voltage                                                      | 48V                                          |
| Open Circuit Voltage VRD<br>ES 300i<br>ET 300iP                           | 32V<br>33V                                   |
| MMA Welding Output<br>40% Duty Cycle<br>60% Duty Cycle<br>100% Duty Cycle | 300A / 32.0V<br>250A / 30.0V<br>200A / 28.0V |
| TIG Welding Output<br>40% Duty Cycle<br>60% Duty Cycle<br>100% Duty Cycle | 300A / 22.0V<br>250A / 20.0V<br>200A / 18.0V |
| VRD                                                                       | <35V                                         |
| Current Range                                                             | 5-300A                                       |
| Approvals                                                                 | IEC/EN 60974-1<br>IEC/EN 60974-10 Class A    |
| Application Class                                                         | S                                            |
| Protection Class                                                          | IP23                                         |
| Mains Cable                                                               | 3m 4x2.5mm <sup>2</sup>                      |
| Dimensions, L x W x H                                                     | 460 x 200 x 320mm                            |
| Weight - ES 300i<br>ET 300iP without / with Cooler                        | 15kg<br>16.9kg / 26.9kg                      |

#### OPTIONAL ACCESSORIES

- **TIG torch** – Available as air-cooled or water-cooled torches, 4m and 8m.
- **Water cooler** – Quick-connect system between power source and cooler.
- **Foot pedal** – Adjust the weld current during welding; includes trigger functionality.
- **Remote control** – Handheld with digital panel for precise setting of parameters.
- **Trolleys** – Available for large (20-50L) or small (5-10L) gas bottles.





## ORDERING INFORMATION

|                                     |            |
|-------------------------------------|------------|
| Renegade ES 300i Power Source (AU)  | 0445100883 |
| Renegade ET 300iP Power Source (AU) | 0445100923 |
| EC 1000 Water Cooler                | 0445045880 |

### Renegade ES 300i Plant W1009700

#### Includes:

|                                    |
|------------------------------------|
| Renegade ES 300i Power Source (AU) |
| Lead Set, 5m 400A                  |

### Renegade ET 300iP Plant W1009710

#### Includes:

|                                     |
|-------------------------------------|
| Renegade ET 300iP Power Source (AU) |
| Lead Set, 5m 400A                   |
| TIG Torch TXH201, 4m                |
| Regulator COMET 250 Argon 45LPM     |
| Gas Hose Kit                        |

### Renegade ET 300iP Water Cooled Plant W1009720

#### Includes:

|                                      |
|--------------------------------------|
| Renegade ET 300iP Power Source (AU)  |
| EC 1000 Water Cooler                 |
| Lead Set, 5m 400A                    |
| TIG Torch TXH252w, 4m                |
| Regulator COMET 250 Argon 45LPM (AU) |
| Gas Hose Kit                         |

## OPTIONAL ACCESSORIES

|                                                         |            |
|---------------------------------------------------------|------------|
| Shoulder Strap                                          | 0445197880 |
| Trolley 2-Wheel                                         | 0460330881 |
| EC 1000 Water Cooler                                    | 0445045880 |
| TXH 201 TIG Torch, 4m                                   | 0700300552 |
| TXH 201 TIG Torch, 8m                                   | 0700300555 |
| TXH 252w TIG Torch, 4m                                  | 0700300855 |
| TXH 252w TIG Torch, 8m                                  | 0700300856 |
| Lead Set, 5m, 400A                                      | 646757     |
| ER 1 Remote Control incl. 5m Cable and 6-Pin Connector  | 0445536881 |
| ER 1 Remote Control incl. 10m Cable and 6-Pin Connector | 0445536882 |
| ER 1F Foot Control incl. 5m Cable and 6-Pin Connector   | 0445550881 |
| ER 1F Foot Control incl. 10m Cable and 6-Pin Connector  | 0445550882 |

# UNRIVALLED SERVICE AND SUPPORT.

Renegade, like every ESAB machine, is backed by our commitment to superior customer service and support. Our skilled customer service department is prepared to quickly answer any questions, address problems, and help with maintenance and upgrading of machines.

For more information on these products, visit [esab.com/renegade](http://esab.com/renegade).

## 3-YEAR WARRANTY.

ESAB's industry-leading service and support means that if customers do need help, they will be protected by the most comprehensive warranty in the business.



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