



**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 15–17 kg (depending on model) and measures just 460 mm by 200 mm by 320 mm – 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, and ET 300i and ET 300iP for HF TIG applications and MMA.

**Outstanding power and reach** – Run 300 amps at 40% duty cycle with mains and welding cables up to 100 m.

**Extreme multi-voltage capabilities** – Connect to 230 V single-phase power and 208 V to 528 V three-phase power with auto-sensing functionality and no rewiring required.

## 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.

**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.

**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).**



## OUTSTANDING TIG PERFORMANCE.

**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.

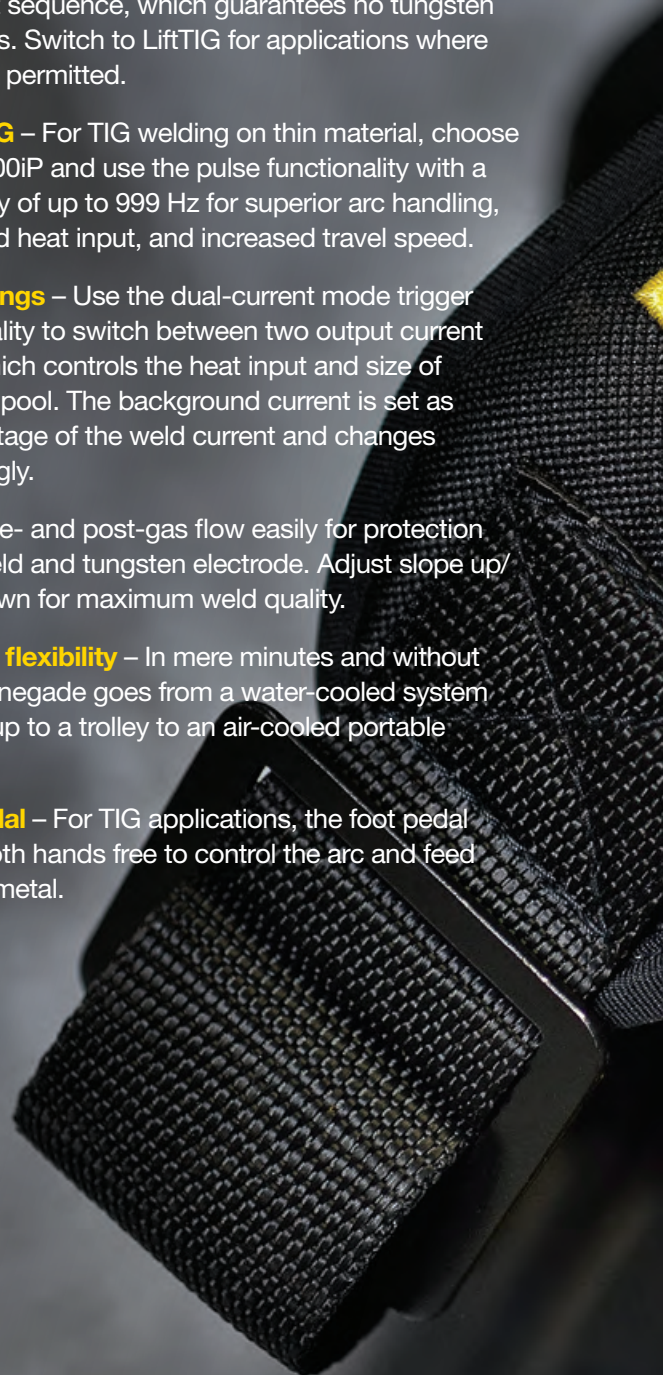
**Pulse TIG** – For TIG welding on thin material, choose the ET 300iP and use the pulse functionality with a frequency of up to 999 Hz for superior arc handling, controlled heat input, and increased travel speed.

**TIG settings** – Use the dual-current mode trigger functionality to switch between two output current levels which controls the heat input and size of the weld pool. The background current is set as a percentage of the weld current and changes accordingly.

Adjust pre- and post-gas flow easily for protection of the weld and tungsten electrode. 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.





## 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** – Keeps the electrode from sticking to the workpiece.

**Remote control** – Two options available. MMA 3 a traditional remote for amperage adjustment. ER 1 complete with digital display, the remote serves up real-time weld settings when working away from the power source.



# THE BEST OF THE REST.

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

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

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

PACKAGE FEATURES	ES 300i	ET 300i	ET 300iP
Pulse Settings			X
High Frequency Pulse			X
Dual Current Mode		X	X
Adjustable Pre-flow/Post-flow		X	X
Adjustable Slope Up/Slope Down		X	X
2-Stroke/4-Stroke Trigger Functionality		X	X
Foot Pedal Compatible		X	X
Remote Control Compatible	X	X	X
Water-Cooled Option		X	X
Digital Display	X	X	X
Cellulosic Weld Optimisation (MMA)	X		
Adjustable Hot Start	X	X	X
Adjustable Arc Force	X	X	X

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

TECHNICAL DATA	
Primary Voltage 1ph	230 VAC +/- 10% 50/60 Hz
Primary Voltage 3ph	230–480 VAC +/- 10% 50/60 Hz
Current Range	5–300 A (TIG and MMA)
TIG Welding Output	300 A / 22 V @ 40% 250 A / 20 V @ 60% 200 A / 18 V @ 100%
MMA Welding Output	300 A / 32 V @ 40% 250 A / 30 V @ 60% 200 A / 28 V @ 100%
Weight	ES 300i: 15,5 kg ET 300i and ET 300iP: 17 kg
Dimensions (L x W x H)	460 mm x 200 mm x 320 mm
Protection Class	IP 23
Warranty	3 years

- ### ACCESSORIES
- **TIG torch** – Available as air-cooled or water-cooled torches, 4 m and 8 m.
  - **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 or without digital panel for precise setting of parameters.
  - **Trolleys** – Available for large (20–50 L) or small (5–10 L) gas bottles.



# 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.



ESAB / [esab.com](http://esab.com)



XA00189020 Rev2