



WELD THE WORLD

Discovery 300T Evo



Discovery 300T Evo

TIG DC - MMA



User interface simple and informative



1 Graphic Display complete with multi-language Menu



2 Encoder with push button navigation permits the setting with one hand



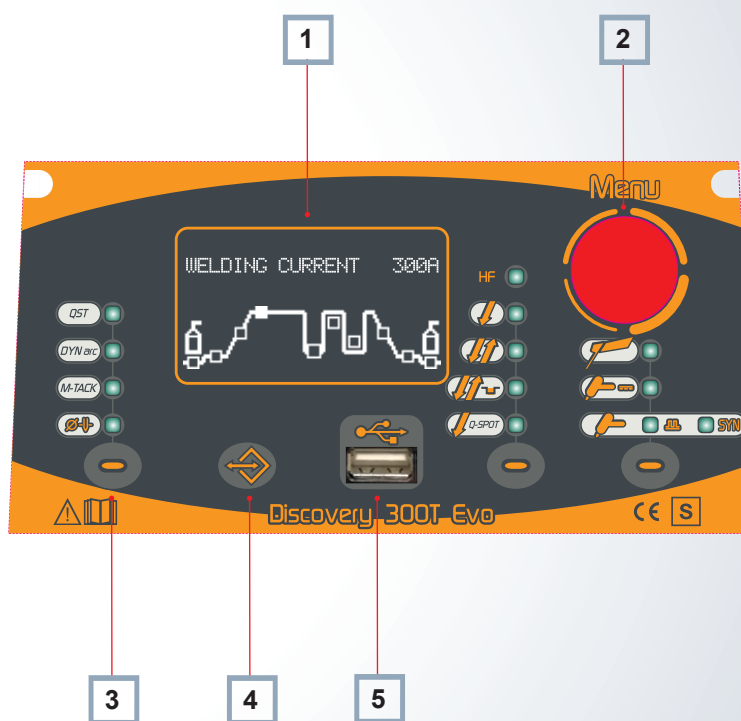
3 Direct access to all special functions



4 Quick Jobs` Management



5 USB Connection for Jobs back up and rapid transmission



Discovery 300T Evo

Technical Data



WELD THE WORLD

Discovery 300T Evo is a revolutionary state-of-the-art 3Phase portable TIG DC welding Inverter. Ordinary steels, stainless steel and copper can be easily welded in TIG DC.

Discovery 300T Evo is specifically designed for extremely precise welding in the construction, petrochemical, food industries and other applications that require very a high welding performance.

The new user interface (Evo) provides fast and effective access to all available functions. 50 programs can be loaded and saved in memory (JOB), All programs can be easily recalled when using an Up/Down torch. It is also possible to create different jobs sequences to be used on specific applications. Simple selection of the MMA mode provides a choice of the electrode-type (basic, rutile, CrNi, Alu) setting, resulting in optimizing the weldability and parameters.

Discovery 300T Evo						
	3x400Vac ± 15% @50-60Hz					
	20A					
	TIG			MMA		
% _{40°C}	50%	60%	100%	40%	60%	100%
	300A	250A	210A	300A	230A	200A
	5A – 300A			10A – 300A		
	76V					
	13,3KVA – 10,7KW					
	23S					
	460 x 230 x 325 mm					
	19Kg					

TECHNOLOGY



PROCESSES

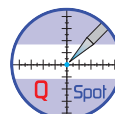


TIG DC

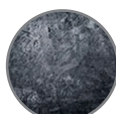


MMA

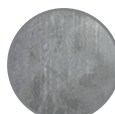
SPECIAL FUNCTIONS



MATERIALS



Mild steel



Stainless steel



Copper

INDUSTRIES



Maintenance



Industry



Shipyard



Pipe welding

Discovery 300T Evo

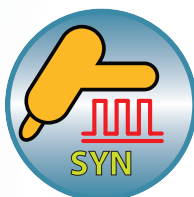
Technology and Special Functions



Function VRD (Volt Reduction Device) reduces automatically the voltage of the welding machine during the Standby mode in order to allow the processing in those building site where low voltages are demanded for safety reasons (Dockyards, petrol platforms and so on).



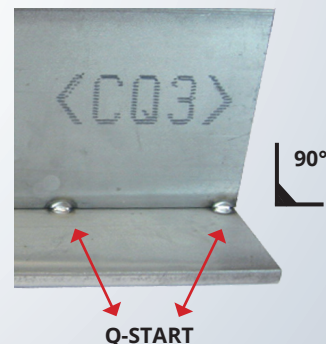
The pulse TIG with frequency until 2500Hz allows to weld very thin materials with easy arc control and very low heat input on workpiece.



Pre-set balanced parameters, stored in the Synergic Pulse TIG DC SYN curve, simplify Pulsed welding by adjusting only welding current.



The Q START (Quick start) function facilitates the joining of the parts in the initial stage of the welding process. On activating this function the machine automatically switches to Synergic pulsed mode for a preset time. The resulting pulses create movement of the molten metal on the two sheet metal edges thereby accelerating formation of the join. This function is invaluable in the case of seams with slight openings or with irregular preparation. The duration of the series of pulses can be adjusted, (from 0.1 to 60 second) depending on the thickness and shape of the sheet to be welded.



Discovery 300T Evo

Special Functions



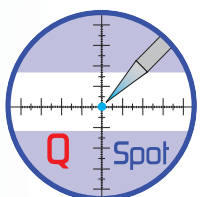
The DYNAMIC ARC function makes it possible to keep the product of Voltage x Current constant. The power source increases the welding current as the arc voltage decreases and reduces the welding current if the arc voltage increases. The DynARC value can be adjusted from a minimum of 1 Ampere to a maximum of 50 Ampere at each 1 Volt variation, whether positive or negative.



Dynamic Arc TIG welding

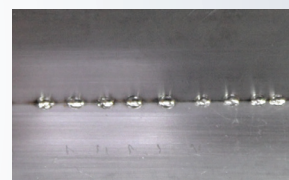


Standard TIG welding

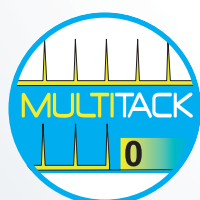


The Q-SPOT (Quick Spot) function makes it possible to minimise tacking times for light gauge sheet metal. The operator conveniently places the tungsten electrode on the fixing point, thereby obtaining perfect control of the position of the join. Once the electrode has been lifted the machine emits a very high intensity welding current pulse with a very short preset time (from 0.01 Sec to 1 Sec). The pulse time varies depending on the type of sheet metal to be joined. In this way the welded point closes instantly with minimum heat transfer, leaving the metal white, clean and almost cold.

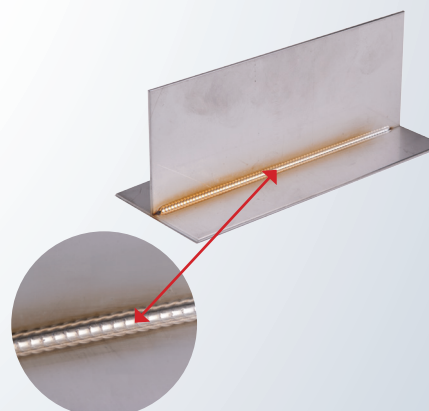
Pipe butt weld
Ø 31.75 x 2 mm



Corner spot welding thickness 0,6 mm



The MULTITACK system makes it possible to reduce heat output while joining two light gauge parts (0.6mm – 0.8mm). The series of arc strikes at short time intervals allows the material to cool during the pause between one strike and the other and thus minimizes its deformation. The facility to adjust the frequency of the series of arc strikes in the time unit makes it possible to adapt the electric arc to the welding speed and the joint geometry.



Discovery 300T Evo

User friendly Menu

User friendly Menu

MENU FOR USE WITH A USB-STICK

```
JOB MENU
--->> USB EXPORT
MENU to confirm
```

DIFFERENT REMOTE-CONTROL TYPES
CAN BE APPLIED INCLUDING SELECTION
OF DIFFERENT TORCH SETTINGS

```
SET-UP      (10/15)
-----
ENABLE READ I.  ON
TORCH TYPE      1
PEDAL TYPE      2
```

WELDING HOUR COUNTER

```
SET-UP      (13/15)
-----
POWER ON :    20.4h
T. ARC ON :    0.2h
P. ARC ON :    0.1h
```

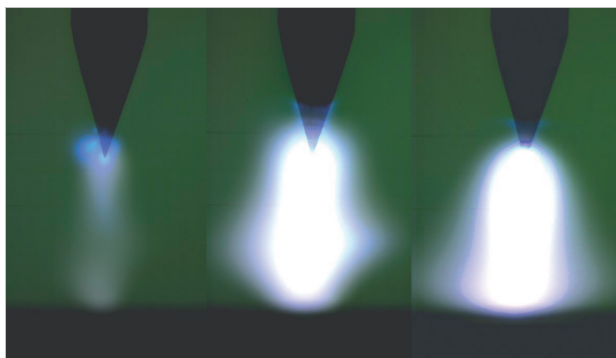
VALIDATION AND CALIBRATION
SYSTEM FOR WELDING PARAMETERS
READING IN ACCORDANCE WITH EN
60974-14 (EN50504)

```
SET-UP      (15/15)
-----
SET VAL. CURR. 10A
MENU --->>    OFF
0 A           9.1 U
```

TIG DC Ignitions have been optimized

It is possible to regulate the current impulse dynamics in relation to the electrode diameter in order to achieve perfect arc-ignitions and optimum weld conditions every time. This setting avoids inconsistent arc-ignitions and welding defects.

ELECTRODE DIAM. 1.6mm



Discovery 300T Evo

Available configurations



WELD THE WORLD



**Discovery 300T Evo
with Trolley P and C.U.12**

**Discovery 300T Evo
with Trolley 02 and C.U.12**

AIR Version

H₂O Version

PLUS



LIGHTNESS

The lightness of Discovery 300T Evo makes it particularly suitable for maintenance and mobile welding.



COMPACTNESS

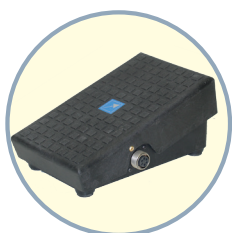
The compactness of Discovery 300T Evo makes it easy to place it even on a working environment of small size.



TRANSPORTABILITY

A sturdy strap makes Discovery 300T Evo easily transported from one workplace to another.

ACCESSORIES



FOOT PEDAL



**SOFTWARE UPGRADE
OF THE WHOLE MACHINE**



UP & DOWN TORCH



REMOTE CONTROL

A solid industrial activity, where the production is based on substantial investments for the supporting of research, projection and continuous testing.

Since 1997 Weco has been producing and selling welding machines Both registered office and production plant are based on the north east of Italy. Our offices, technical/project department, production and warehouse are able to serve both our national and international sales net. A wide range of welding machines together with a huge stock, allow us to encounter and fully satisfy our customers requests in short time. A dynamic management supported by solid experience on the main sales arguments and a deep knowledge on the application issues, allow this company to be ahead in the welding sector. WECO means better solution for improving the production, optimizing the intervention time, minimizing the processes costs, with the highest perform-standards granted.



WELD THE WORLD

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