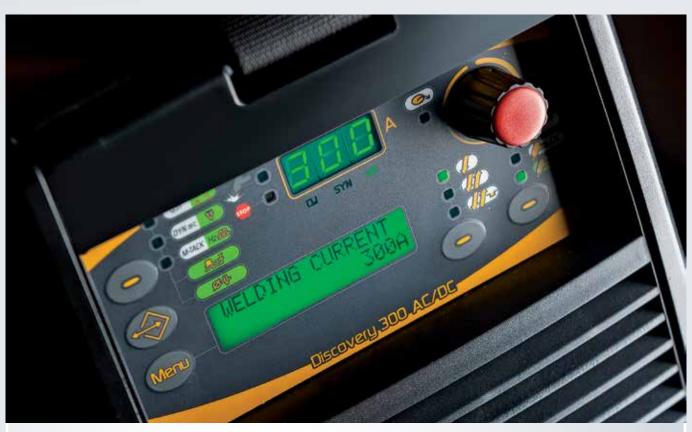
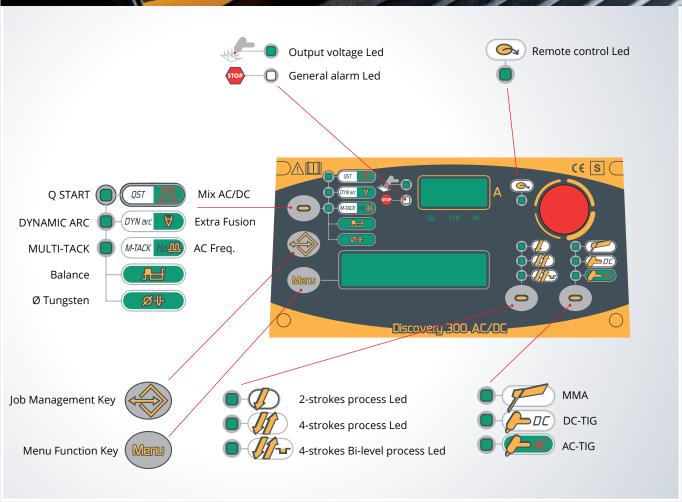


Discovery 300AC/DC



Discovery 300AC/DCTIG AC/DC HF - MMA





Discovery 300AC/DC

Technical Data

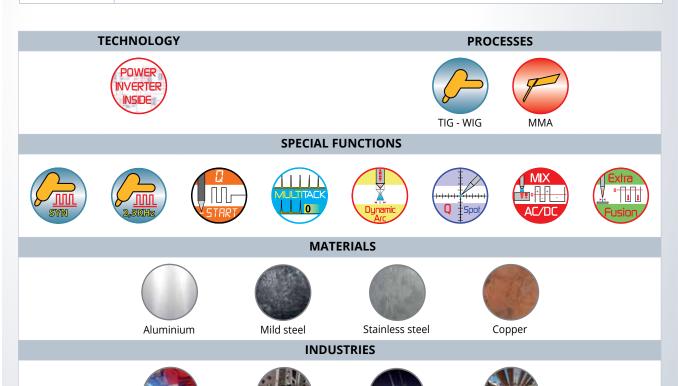


The Discovery 300AC/DC is a high sophisticated three Phase Inverter TIG AC/DC portable welding machine. **The Discovery 300AC/DC** has been designed particularly for extremely precise constructions, in petrochemical plants, food industry and other activities which require very high welding performance.

Maintenance

- 50 programs can be loaded and saved in memory
 Remote controls are available: for torch (UP&DOWN, potentiometer), foot pedal or remote control unit
- Cooling unit, is also available

		Dis	covery 300AC/	DC		
D₽	3x400Vac ± 15% @ 50-60Hz					
-	20A					
	TIG - WIG			MMA		
% 40°€	30%	60%	100%	30%	60%	100%
► I ₂ •	300A	220A	180A	300A	220A	180A
I ₂	5A – 300A			10A – 300A		
U ₀	9/59V					
P _{max}	14,6kVA – 11,4kW					
IP	23S					
乜	460 x 230 x 325mm					
<u>ර</u> ිරිඑ	23,0Kg					



Shipyard

Industry

Pipe welding

Discovery 300AC/DC

Special Functions



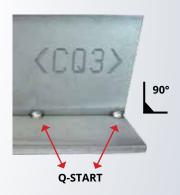
The pulse TIG with frequency up to 2500Hz allows the operator to weld very thin materials with easy arc control and very low heat input on workpiece.



Pre-set balanced parameters, stored in the Synergic Pulse TIG DC SYN curve help to simplify the Pulsed welding process. The Pulse is altered automatically when the welding current is adjusted.



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 10 second) depending on the thickness and shape of the sheet to be welded.





The **DYNAMIC ARC** function makes it possible to keep the pre-set 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 10 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.



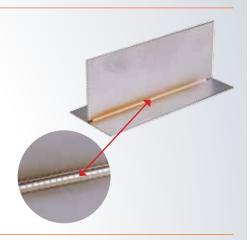




Corner spot welding thichness 0,6 mm

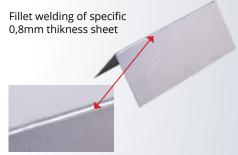


The **MULTITACK** system makes it possible to reduce heat output while joining two light gauge parts (0.6mm – 0.8mm). The series of arc strikes at short time intervals allows the material to cool during the pause between one strike and the other and thus minimizes its deformation. The facility to adjust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





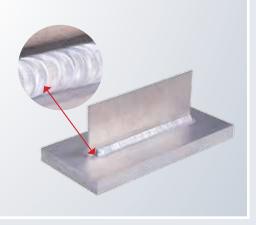
Thus function makes it possible to shift the waveform towards the negative part with respect to zero. This makes it possible to create a highly penetrative and precise fusion bath so that very light gauge sheets can be welded with an electrode tip comparable to that of an electrode for DC - TIG welding. The adjustable value in our AC/DC TIG power sources ranges from 0% to 80% (with respect to the AC - half-wave percentage). The Extra Fusion function is not recommended when welding heavy gauges because the AC+ component is insufficient to ensure optimal cleaning (pickling) of the part during the welding process.



Particular on the fillet welding. It is possible to notice the remarkable degree of finishing and the high welding precision

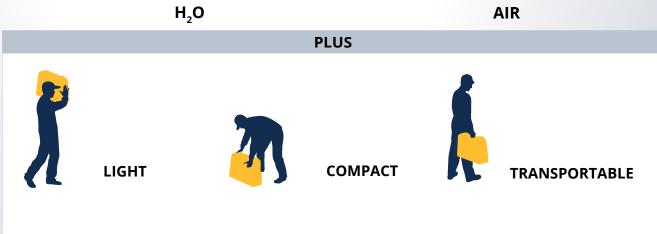


This function **MIX AC/DC** makes it possible to modulate the welding current, alternating a half-period of TIG AC with a half-period of TIG DC-. This means that the efficacy of AC TIG welding can be combined with the high penetration of DC TIG welding, thus obtaining high welding speed and creating the weld puddle rapidly on a cold workpiece. It is also possible to weld heavier gauges with lower amperage, since the DC- portion is far higher than when using an entirely AC waveform. The operator adjustable parameter is the percentage of AC waveform compared to DC- waveform over the entire period, which can be varied from 10% to 80%.



Discovery 300AC/DCPlus and Accessories









Discovery 300AC/DC with Trolley 02 and C.U.12

Discovery 300AC/DC with Trolley P and C.U.12

ACCESSORIES



FOOT PEDAL



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.



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