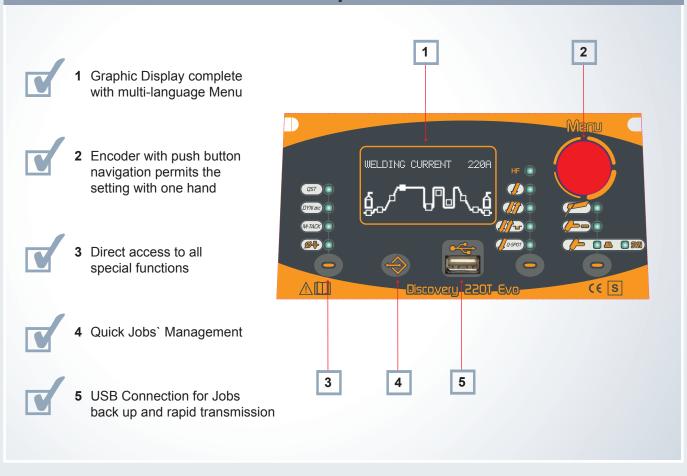




Discovery 220T Evo TIG DC - MMA



User interface simple and informative



Technical Data

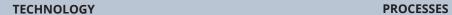


Discovery 220T Evo is a revolutionary state-of-the-art 1Phase portable TIG DC welding Inverter. Ordinary steels, stainless steel and copper can be easily welded in TIG DC.

Discovery 220T 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 220T Evo | | | | | | |
|--------------------|--------------------------|------|------|------------|------|------|
| D₽> | 1x230Vac ± 15% @ 50-60Hz | | | | | |
| - | 16A | | | 25A | | |
| | TIG | | | MMA | | |
| % 40°C | 40% | 60% | 100% | - | 60% | 100% |
| ►I ₂ • | 220A | 180A | 160A | - | 180A | 150A |
| I_{2} | 5A – 220A | | | 10A – 180A | | |
| U _° | 81V - 5V | | | | | |
| P _{MAX} | 5,9KVA – 5,8KW | | | | | |
| IP | 23S | | | | | |
| 14 | 460 x 230 x 325mm | | | | | |
| ට්රිර | 18,6Kg | | | | | |









TIG DC



SPECIAL FUNCTIONS













MATERIALS



Mild steel





Stainless steel

Copper

INDUSTRIES









Maintenance

Industry

Shipyard

Pipe welding

Technology and Special Functions



W.ECO PFC reduces harmonic current emissions and 20% input current, increasing the power inverter efficiency.



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.



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.





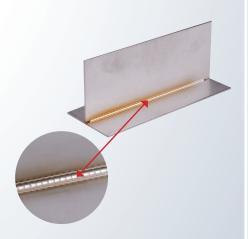
90°



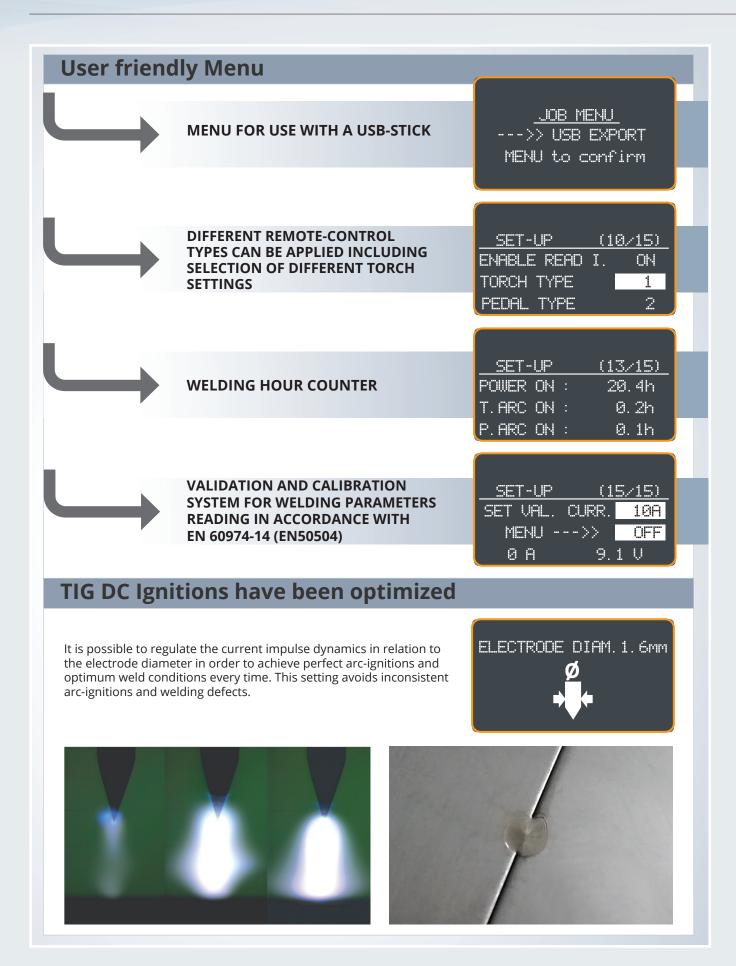
Corner spot welding thichness 0,6 mm



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.



User friendly Menu



Available configurations





Discovery 220T Evo with Trolley P and C.U.12

Discovery 220T Evo with Trolley 02 and C.U.12 **AIR Version**

H₂O Version

PLUS



LIGHTNESS

The lightness of Discovery 220T Evo

makes it particularly suitable for

maintenance and mobile welding.





TRANSPORTABILITY

A sturdy strap makes Discovery

220T Evo easily transported from

one workplace to another.

The compactness of Discovery 220T Evo makes it easy to place it even on a working environment of small size.

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 performstandards granted.



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