



Plus Concept

High Productivity Solution

++ Increased Welding Speed ++ Control of the Deposit

++ Arc stability and control ++ Higher Penetration

++ Quality of the Deposit

= Lower Welding Costs with Higher Quality.

A close-up of a welding power source with a digital display showing '130' and '32'. The device is black and grey with a handle on top. A bright yellow and orange flame-like effect is visible in the foreground.

OVERVIEW

ACL
INDUSTRIAL

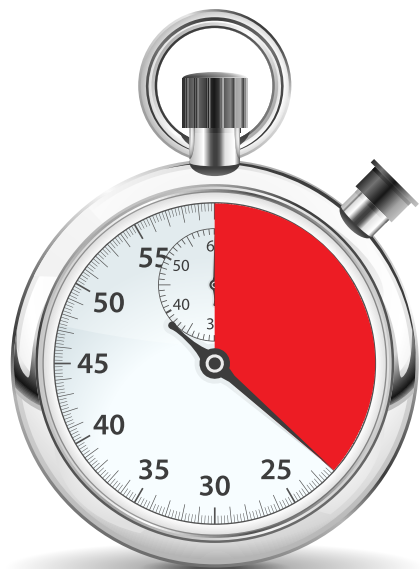


Plus Concept

The Simpler And Faster Way To Improve The Welding



Traditional Pulse



Plus Concept

Plus Concept is an innovative solution that is revolutionising the welding industry. High efficiency welding is now possible with Mig Welding, Pulse Arc and in standard applications. The forced dynamism of the *Plus Concept* not only allows a higher quality of welding but it also achieves a fast drop rate in the high frequency arc pool with surprising results: it increases the welding pool up to 45% and, at the same time, it increases the penetration of the weld. Higher speed, higher penetration and less spatter means less energy used during the deposit and reduced deformation during the welding.

Plus Concept



Faster & Deeper High Current Applications

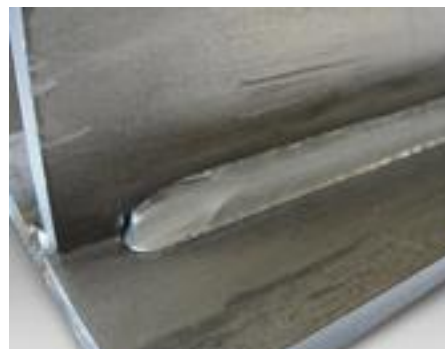


Higher Penetration

Full penetration and higher depth of penetration in thicker materials can be obtained with the use of the new programs series speed Mig-Mag. The increase in the arc transfer speed allows the welding of materials up to 15mm in one pass, with only a narrow gap, eliminating costly weld preps. The new process maintains the arc stability and allows long stick-out to enable the welding to be completed in a single pass. With this solution, due to the increased welding speed, a lot of time is saved and the energy required for the same weld is much less. Faster welding and energy reductions mean greater reduction of the distortion of the work-piece. Using *Plus Concept* in the application of heavy industry greatly improves the quality and notably reduces production costs.

Higher Speed in Pulse Mig Application

Plus Concept has available Pulse programs for any kind of material with a better arc control and a smoother arc. Special waveforms and very fast dynamics increase the weldability of all materials. A precision arc, smoother waveform and high frequency transfer allow a precise arc with lower pressure in the welding pool. As a result, the welding speed is increased up to 45% with the same arc energy as found in standard machines. The simplicity of the pulse control setting allows a fast approach to any welding, irrespective of the thickness and this results in a colder weld with exceptional appearance. Up to now, in certain applications where the pulse mig process would not be recommended, because of the higher heat in the join (compared to the conventional welding), it is possible to improve quality and efficiency with the use of the new *Plus Concept*. Arc noise emissions are reduced with the smooth waveform in Pulse Mig too. It allows higher current applications without the typical loud noise of the arc.





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Double Pulse Program

Double pulse program can be easily selected for special welding. A simple click in the front panel will switch from a standard pulse application to the advanced and fast double pulse without any other settings from the user, it this way it is very easy to understand the powerful capability of the double pulse application in all the material.

Higher Effectiveness In All The Welding Positions

Plus Concept has optimal settings for all applications. The improvement of the welding speed is not only for applications with steel but with all the other materials where the special pulse programs allows the best results with the highest performances for aluminium, stainless steel and special alloys.

Brazing

Programs for brazing are easy to use and covers special applications for the car industry and any welding with zinc steel.



A Mighty Heart

The converter of the Multi Machines (range of the Plus Concept) is an innovative, high power system, developed with the latest components of modern technology. It has an exclusive patent WDM (Variable Duty Management) that allows higher performances in any conditions. Also with fluctuating input currents, this range of machines will compensate and accept, without failure, an extremely wide variation of supply voltage. The compensation voltage device allows the machines to operate in both Offshore Applications and is also Generator friendly.

Front Panel

An Ergonomic and Auto Learning System is used in the powerful front panel interface where welding mode selection, programs selection, adjustments and the special settings coexist in a rugged panel, where, by a simple touch the user can instantly see the results they have selected. Bright icons allow the welder to see the selections even when wearing welding helmets.

Contact Us NOW to arrange a demonstration!





Multi Series

Complete In The Applications

Design and Style

A robust and industrial concept has been developed for outside use but it is flexible and complete at the same time. The machines can develop according to the needs of the user from a simple compact solution up to a double gas bottle trolley, complete with cooler unit with added external wire feeder for double applications. Any extra accessory is auto recognised and then auto installed by the central process control and works in the correct mode without the need of the knowledge by the user. e.g. Water cooling unit starts and stops alone only when it is necessary. The central controls monitor any function of the equipment and accessories and alert the user, on the front panel, every time something needs checking.

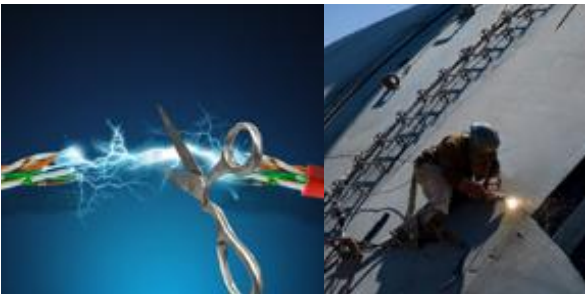
Complete In The Applications

Plus Concept is not only for Innovative fast Pulse and fast MIG-MAG machines but MMA and TIG mode are also available. The performance in MMA and TIG are top level technology and grant the most professional results for expert users. MMA and TIG mode has both manual and synergic adjustment, when the Synergic mode is selected, the user selects the welding process, which enables self regulation of the welding parameters, by simply selecting the work-piece thickness. Special Lift arc start is used for tig arc ignition which makes the use of high frequency negligible. Manual remote control for MMA and special tig torch with intelligent handle regulation should be connected to the machine.



Special Applications

Robot or external automatic welding equipment connection is very easy to complete with a simple accessory kit that allows remote adjustment and communication.



VRD

Voltage Reduction Device, is a very important solution in order to limit the risk of the user when he come in contact with the no load voltage of the output polarity of a welding machine. All the *Plus Concept* power source, has built in this solution in order to take care also about the health and safety of the user.

Graduated For All The Tests

European norms conformity is fully tested for world wide use. Heavy environmental tests are developed in order to adapt the use in the typical extreme situations of the off shore welding. Much more than usual is developed in these machines in order to insure a good and reliable application in all the industrial applications.



15 Jealous Road (P O Box 6164) Bundaberg East QLD 4670
tel: 07 4130 8800 | fax: 07 4130 8899
email: sales@aclindustrial.com.au
www.aclindustrial.com.au