

## OPTeARC EWELD800HD, EWELD1000HD DC & AC-DC

### 800A & 1000A multi-process power source for industrial welding applications

EWELD 800HD & 1000HD CC/CV are true multi-process welding power sources designed for the heaviest duty welding applications. Utilising our hybrid OPTeARC technology these machines offers an unrivalled combination of extreme welding performance, very low power consumption & rugged reliable build.

With 100% duty cycle at maximum power these machines are perfect for sub arc welding (SAW), Arc air gouging (CAC), MMA (SMAW) welding, metal spraying, MIG/MAG (MCAW, FCAW), TIG and other applications which require very high current and the highest possible duty cycle. In addition, easy parallel connection of two machines allow power up to 2000A.

These machines provide super smooth output power on all processes & the high OCV means all electrodes including celulosics can be run without arc drop outs.

OPTeARC technology machines are based on a heavy-duty copper wound transformer & PWM chopper output control of the welding output. This combines the performance advantages of inverter technology with the rugged reliable build of old school transformer machines. Perfect for even the most extreme welding environments!

#### Machine features & functions all models – S & SAW versions

- Weld power knob for infinite control from min-max welding volts or amps.
- CC/CV switch to select welding output characteristics.
- Variable inductance control on CV to set perfect arc condition for MIG/MAG, SUB ARC etc
- Variable arc force control for CC.
- Built in hot start for instant easy arc up.
- Digital meter reads set parameters initially then precise welding values.
- Remote/ local control of output power.
- Auto compensation for unstable electrical supply & long cables etc.
- Unbeatable super smooth arc characteristics for all welding processes.
- Multiple output connections allows easy parallel cable connections for high power.
- Rugged steel enclosure with lifting eyes.



#### Additional functions & features for SAW models

- Built in SUB ARC/MIG/MAG wire feed PCB & controls on front.
- Creep start of wire to give best arc starts.
- Adjustable burn back to finish wire clear of pool.
- Remote interface connector allows various remote controls or PLC interface connection.
- Power supply output for tractor controller.
- Isolated A & V outputs for PLC or instruments.

#### Additional functions & features for AC DC models.

- AC-DC switch.
- AC frequency control from 10-100HZ.
- AC Balance control from 95% - through to 95% +

<u>Specifications</u>	<u>OPTeARC</u>	<u>EWELD800HD</u>	<u>EWELD1000HD</u>
Amps range MIG, STICK & TIG		50-800A	50-1000A
Max no load volts (OCV)		88V DC	88V DC
Duty cycle 100% rating		800A@44V	1000A@44V
Input voltage		400V (380-420) 3 ph 50/60Hz	400V (380-420) 3ph 50/60Hz
Input fuse (D rated)		T63A	T63/80A
Protection		IP23	IP23
Approx weight (DC model)		270kg (290kg AC-DC)	330kg (355kg AC-DC)
Approx size (all models)		1040mm H X 930mm L X 520mm W	

#### **PTO for more information & accessories.**

Designed & manufactured in Great Britain.

**Power source - standard options available at time of order.**

EWELD 800HD & 1000HD CC/CV power sources are available as S model or SAW model, in addition both versions are available as DC only or AC-DC.

**S model versions** have basic controls, welding power, CC/CV switch, arc force, inductance, remote control socket & digital meters. Ideal for MMA, gouging & can be used for all other processes like SUB ARC & MIG/MAG. This can be used with our EWELD remote – basic version.

**SAW model versions** have the same controls as S but with additional functions for SUB ARC & MIG/MAG allowing our SUB ARC welding head to be used & MIG/MAG wire feeders. Additional functions include, wire feed speed & burn back. Also, a comprehensive interface/remote socket is fitted to allow use with SUBR100,200 & 300 remotes & allow our EWELD tractor to be used with the SUBR300. Furthermore, SAW models can be interfaced to PLC controllers etc.

**Auxiliary equipment & accessories.**

EWELD SUB ARC tractor with adjustable boom height, length & angles. Adjustable cross slide & wire spool holder fitted. Requires SUBR300 to operate.



EWELD SUB ARC welding head. Rugged 4x4 wire drive + wire straightener. 1200A Welding torch + flux hopper. Requires SUBR200 or 300 to operate.



Optional manual adjust slides, fit to welding head & tractor or boom arm etc. Optional motorised versions also available.

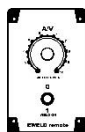
Height adjustment slide



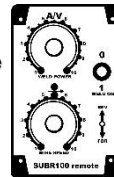
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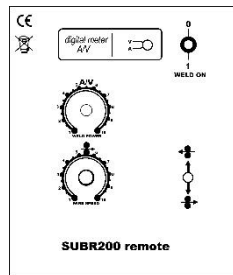
EWELD remote – basic, weld power control & output on/off. Ideal for MMA, gouging etc Hand held unit.



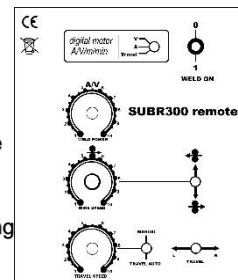
EWELD SUBR100 remote, Weld power & WFS control. On/off & wire inch up/dn. Ideal for SUB ARC, MIG/MAG, MMA, gouging etc Hand held unit.



EWELD SUBR200 remote, Weld power & WFS control. On/off & wire inch up/dn. Digital meter fitted to display precise A & V. Ideal for SUB ARC, MIG/MAG, MMA, gouging etc. Ideal for mounting close to operator.



EWELD SUBR300 remote, Weld power & WFS & tractor control. On/off & wire inch up/dn. & tractor direction L/R & manual/auto. Digital meter fitted to display precise A & V & M/min. Ideal for SUB ARC, MIG/MAG, MMA, gouging etc. Ideal for mounting close to operator.



**Other power source options**

- 440V, 460V, 480V, 550V etc input
- EWELD1500 model available.
- Option to build in controls for tractor.
- Parallel socket to allow easy current sharing.

**Other accessories**

- 45 degree flux tube bracket for SUB arc fillet welding.
- Welding cables & control leads.
- Motorised slides.
- MIG/MAG wire feeders.
- Gouging & welding torches



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