

# FIREFLY

GMAW/FCAW orbital weld system



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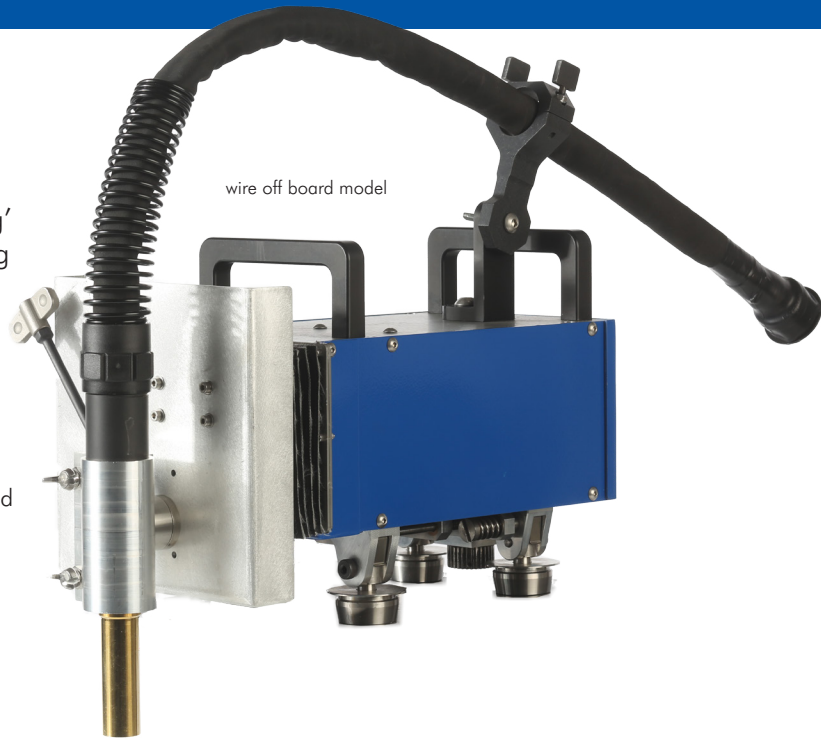
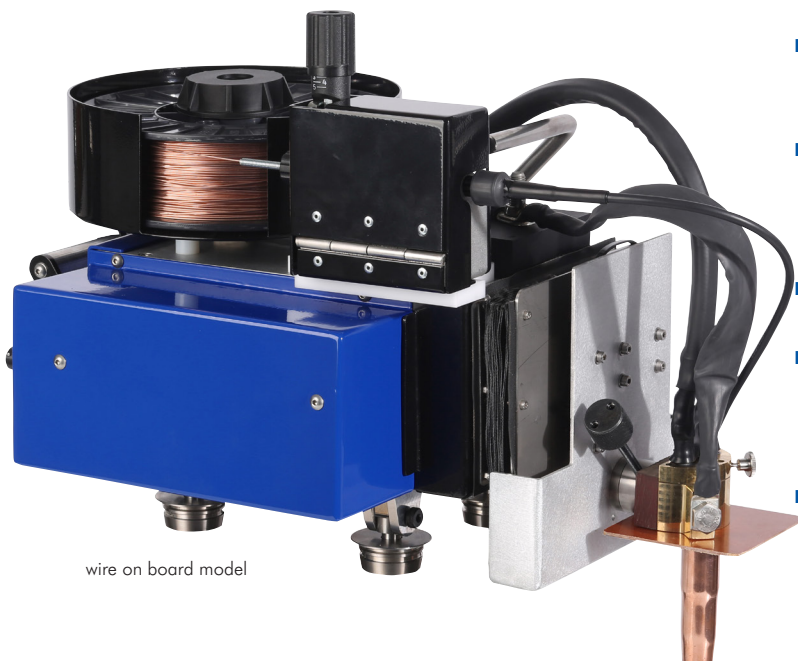
firefly – an IPWL product

The **firefly**, commonly referred to as a 'welding bug' or 'weld head', is a semi-automatic external welding machine designed and manufactured in the UK by IPWL. The **firefly's** unique features combine to give you a smarter welding machine that works with you in the most demanding situations.

The **firefly** is designed to meet the most rigorous standards and is particularly suited to applications requiring a high level of weld repeatability. The purpose of the **firefly** system is to improve the productivity of the welder by continually producing a consistent weld result. We believe this gives our customers a competitive edge in today's ever demanding economic climate.

The **firefly** is full of innovative features to make your life easier:

- **firefly's** micro processor technology enables **precise control** of key welding parameters.
- **firefly** has **multiple pass** welding capability for workpieces in **all gravity positions**.
- **firefly** has **sector control**. This feature enables the customisation of sectors to give the maximum flexibility and repeatability to parameters.
- **firefly** has an **automatic torch height adjustment** feature as standard (with suitable inverters).
- **firefly's** operator's remote control pendant is designed for **ease of operation**. Military grade switches are used to offer a long life and reliability. A hi-visibility display allows ease of parameter identification and operator tolerance.



- **firefly** uses a **ruggedized laptop computer** as a programming pendant to enable parameter set-up in a familiar PC environment – 50 parameter memories come as standard.
- **firefly's** **lightweight design** allows for ease of handling. Health and safety lifting related issues are reduced.
- **firefly's** **simple band clamping** system allows fast and effective clamping and removal of the machine to the guide band. A **quick release** system on the guide band means fast set up times are possible.
- **firefly** can be used on a magnetic or vacuum mounted **flat track**.
- **firefly** systems are **calibrated** to enable all weld procedures to be exactly the same.
- **firefly's** **bi-directional** capability eliminates the need for separate left and right hand bugs.
- **firefly** has a **root pass** capability without the need for copper or ceramic backing shoes.
- **firefly's** **linear capability** enables it to be used reliably over a greater range of welding applications without the need for modifications.
- **firefly's** **compact size** means it can work in **confined areas**.
- **firefly** has both hard wire and flux core welding **capability** due to the high torque motor installed, effective feed of all types of weld wire is possible.
- **firefly's** **self adjusting legs** keep adjustment between pipe sizes to a minimum and allow a greater range of pipe sizes to be welded on one set of legs.



- **firefly** allows the user to download actual **weld programming data** to a USB memory stick for further processing in an Excel spreadsheet format.
- **firefly**'s **on board monitoring** of service schedules enables accurate servicing schedules to be maintained.
- **firefly**'s **military specification** connectors give rugged electrical and data connections prolonging the life of umbilical and remote connections.
- **firefly** offers **choice** – wire on board or wire off board models with a range of water cooled torches.
- **firefly** is compatible with suitable inverters from **all manufacturers**.

All this combines to give you a welding machine that can fulfil your requirements in the most demanding situations.

## SERVICES

### Rent or buy

The **firefly** welding system is available to rent or buy. To make a sales enquiry or to ask a question about the suitability of the **firefly** welding system for your intended application, please contact us.

### Training

Although the **firefly** system is intended to be used by trained welders, a training and familiarisation course is provided to customers. An experienced welder can be trained to use **firefly** in three to five days. Each course is tailored to the skill and experience of the trainee and the intended application. The course is practical with an emphasis on 'hands on' use of **firefly**.



wire off board model with all-angle weld attachment

## INDUSTRY APPLICATIONS

- ✓ oil, gas and water pipelines
- ✓ wind and wave farm construction
- ✓ large diameter vessel fabrication
- ✓ chemical and petrochemical facility construction
- ✓ steam pipes
- ✓ tubular structures
- ✓ pressure vessel construction
- ✓ internal welds
- ✓ shipyard construction work
- ✓ power plant construction, nuclear and conventional
- ✓ general fabrication

operator  
programming  
pendant



### Ancillary equipment

The **firefly** welding system can be supplied with ancillary equipment – integrated inverter sets, induction heating equipment and orbital plasma cutting equipment.

### After sales support

The **firefly** welding system is supported by our distributors and from our base in the UK.

- **Spare parts.** An extensive stock of spare parts is maintained for rapid despatch to customers.
- **Online technical support.** Technicians have access to online remote assist diagnostics software. This enables our technicians to resolve **firefly** technical issues anywhere in the world.
- **Software upgrades.** Software upgrades can be downloaded and installed from the customer log in area of the manufacturer's website.

## SPECIFICATIONS

Minimum Weld Diameter	8 inches (203mm)
Maximum Weld Diameter	Unlimited
Maximum Wall Thickness	Unlimited
Maximum oscillation width	3.6 inches (92 mm) Independently adjustable in 0.0001 inch (0.01 mm) increments
Dwell Time	0–8. Independently adjustable in 0.01s increments
Travel speed	0–270 inches (0–6858mm) per minute
Wire Capacity	0.8–1.6 mm
Machine Weight	9kg Wire off board model 14kg Wire on board model (without 5kg spool)
Machine Dimensions	Length 30cm Width 17cm Height 27cm to 33cm



For further information on the **firefly**, please contact us:

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The **firefly** welding system is designed and manufactured in the UK by IPWL Limited | 