



# User Manual, Operating Instructions and Specifications



## EFAC180

180mm Alignment Clamp

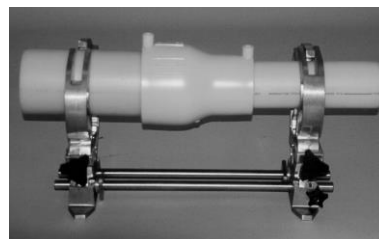


**ELECTROFUSION**

• INNOVATION • DESIGN • MANUFACTURE • SUPPLY

**Option 1: For Couplers & Reducers.**

Product Description	EFC180 Electro-Fusion Clamp
Product Code	089-000048
Weight	8 Kg
Leading Dimensions	L: 560 W: 250 H: 300 (Packed )



**Option 2: For Couplers, Reducers, Elbows & Tee's**

Product Description	EFC180 Electro-Fusion Clamp
Product Code	089-000049
Weight	12 Kg
Leading Dimensions	L: 560 W: 250 H: 300 (Packed )



**Pipe Range:** Pipe diameters between 63mm – 180mm

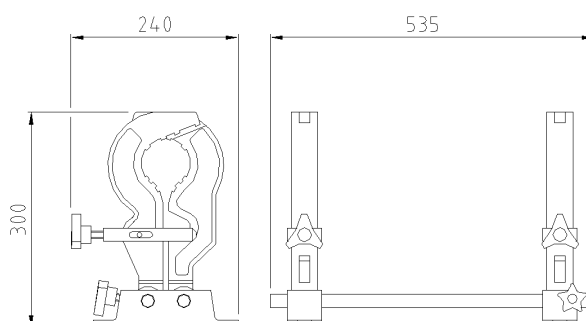
**Application:** For Electro-Fusion couplers / reducers.  
With optional 45°/ 90° adaptor, the unit can also be used for clamping 45° and 90° Elbows and Tee's.

**Features:** The EFC180 Electro-Fusion Clamp is designed to restrain the movement and axially align the pipe during the electro-fusion process.

It's unique design enables the clamp to be used on any diameter of pipe within it's range without the requirement for the use of inserts or any other loose pieces. The clamping arms are able to slide along the chromed bars to allow a variable working gap.

The unit can be orientated either under or over the top of the pipe. The unit is available in standard form for straight couplers and reducers or complete with the optional adaptor to enable clamping of Elbows and Tee's.

**Technical Data**



Materials:	<b>Steel</b>	<b>BS 970 080M40</b>			
	<b>Aluminium</b>	<b>LM6</b>			
	<b>Plastic</b>	<b>Polyamide (Nylon)</b>			
Finish:	<b>Chrome Plated (Steel)</b>				
	<b>Zinc Plated (Steel)</b>				
Dimensions:	<b>Standard Clamp</b>	<b>L: 535mm</b>	<b>W: 240mm</b>	<b>H: 300mm</b>	
	<b>c/w 45-90° Adaptor</b>	<b>L: 535mm</b>	<b>W: 430mm</b>	<b>H: 300mm</b>	
Weight:	<b>Standard Clamp</b>	<b>8Kg</b>			
	<b>c/w 45-90° Adaptor</b>	<b>12.6Kg</b>			

### **Design Specification:**

Hy-ram Engineering Co. Ltd have designed and manufactured this unit to meet the requirements of National Grid Gas Industry Standards

GIS/PL2-5:2006 Part 5: Electro-Fusion Ancillary Tooling.

### **Important!**

This manual outlines the operation of the electrofusion tooling.

This manual forms a part of the product to which it relates. It should be kept for the life of the product. Any amendments issued by Hy-Ram Engineering Co Ltd should be incorporated in the text. The manual should be passed to any subsequent holder or user of this product.

### **General description.**

EFAC180 Alignment and restraining clamps are designed for restraining the movement of medium diameter couplers and reducers. They are designed to fit pipe sizes from 63mm through to 180mm.

### **Before using**

It is important to ensure all component parts are present and in serviceable condition.

### **Instructions for use.**

Pipe Size and fitting shape

1. Turn the knobs anti-clockwise to release them and allow each jaw to open.
2. Prepare the pipes to be joined using accepted procedures
3. Place the clamp around each end of the pipes being welded.
4. Position the fitting in the centre of the clamp in between the two jaws.
5. The clamping jaws can be moved closer and further away from each other by loosening the holding knobs.
6. Elbows or tees are held using the 45/90 adaptor, the base of the 45/90 adaptor can be adjusted and fixed using the clamping knobs.
7. If Tees are being held, then the electrofusion side should be held and welded first, then the spigot outlet held and welded second.
8. If the spigot is long enough, the tool can be used as a straight clamp.
9. Turn the knobs clockwise to secure the clamp, pipe and fitting in position.
10. The fitting is now constrained and ready for welding.

### **Removal**

1. On completion of the jointing and cooling cycle, the clamp may be removed by turning the clamping knobs anti-clockwise to release clamp pressure.

## HIRE EQUIPMENT

Hy-Ram has more than 30 years' experience in hiring specialist equipment and tools to the utility industries. From our depots stock...we have an extensive range of equipment available for most piping operations.



### Butt Fusion

Fully Automatic, Semi-Automatic and Manual Control.  
BFM180, BFM250, BFM315, BFM400, BFM500, BFM630,  
TracStar™T500, TracStar™T900  
Generators, Tents, Pipe Rollers, McElroy PolyHorse™, Debeaders



### Electrofusion

Manual, Auto Recognition and Bar Code Control.  
Generators, Tents, Manual and Mechanical Scrapers, Re-Rounding  
Clamps, Alignment Clamps, Positioning Kits



### Squeeze Off

Mechanical, Hydraulic and Controlled Release Units  
SOU63, SOU125, SOU180, SOU200, SOU250, SOU400, SOU500,  
SOU-Controlled Release



### Pipe Cutting

Plastic Pipe: Guillotine-125, Guillotine-225, Guillotine-315, Hy-Ram  
PE Power Saw  
Metallic Pipe: Ridgid246, Wheeler-Rex Crackers, Hinged Cutters,  
Keel Cutter, Fein Reciprocating Saw, UPC Reed Cutter



### Underpressure Drilling

No.1 Drilling machine, Universal Drilling machine, WASK Teeset,  
Compact 4 Branch Drill, Compact 6 Branch Drill, LR67 Hi-Flow  
Drilling Machine, PEART150



### Flow Stopping

WASK Gas Bagging Off Kit, WASK Aquastop & Hyrant Wizard,  
WASK By-Pass



### Pipe Handling

Pipe Handlers, Pipe Pushers, Pipe Rollers, McElroy PolyHorse™



### Trenchless

Moles (45 – 180mm), Towing Heads (50 – 450mm), Pipe Pushing  
Machines (63 - 400mm), Pipe Breakers 2 - 8"



### General Equipment

Clegg Testers, Gas Monitors, Test Pumps, Submersible Pumps,  
Cable Detectors, Cobra Rods and Reels, Pipe Expanders, Breathing  
Apparatus



Tel: + 44 (0) 1623 422 982 Email: [enquiries@hyram.com](mailto:enquiries@hyram.com)



For Sales, Hire and Repair support contact our  
admin team or scan the QR code for further details

**[www.hyram.com](http://www.hyram.com)**

 +44 (0) 1623 422982  [enquiries@hyram.com](mailto:enquiries@hyram.com)

**Head Office**

Pelham Street  
Mansfield  
Notts  
NG18 2EY

**Mansfield (Hire & Repair)**

Unit 5  
Abbey Industrial Estate  
Hermitage Lane  
Mansfield  
Notts  
NG18 5GH

**Bury (Hire & Repair)**

Unit 18  
Peel Mills Industrial Estate  
Bury  
Lancashire  
BL9 0LU

**Enfield (Hire & Repair)**

Unit 2  
Riverwalk Business Park  
Riverwalk Road  
Enfield  
EN3 7QN