



## **OPERATING INSTRUCTIONS**

### **EFRAC 180mm POSITIONING KIT**

**Machine to be operated by trained personnel.**

**Instructions to be read before use.**

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# Alignment Clamps



Efrac 180 – Standard Kit



Efrac 180 – Delux Kit



Efrac 180 delux with 90° Tee Adaptor Clamp

## Efrac 180 Standard and Delux Kits; Restraining and Alignment Clamp

Extremely rigid and powerful Clamp available in two Kit options and with the option of additional accessories.

**New...** 'Click-tight' liners for quick and easy adjustment for different pipe diameters... screws and allen keys are not required!

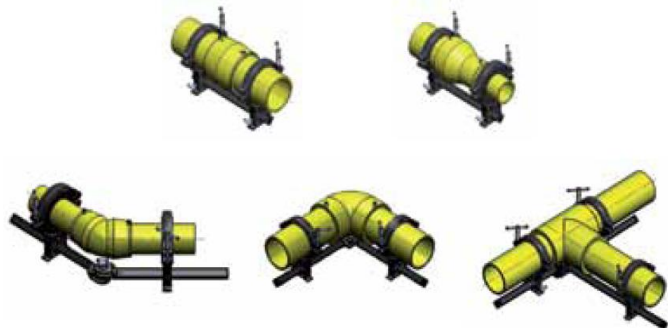
The standard Clamp caters for straight and reducing fittings, whilst the Delux Clamp can also handle elbows. Both kits come in a tough carry-bag and have the option of additional size liners and a 90° arm attachment to enable the use of a third clamp ring for welding 90° equal tees.

Product code	Description	Size Diameter Range	
089-000302	Efrac 180 Kit – Standard, complete with straight bar, standard liners and bag	63, 90, 125 and 180mm	Ⓜ
089-000345	Efrac 180 Kit – Delux, complete with knuckled bar, standard liners and bag	63, 90, 125 and 180mm	Ⓜ
089-000305	Efrac 180 90° tee adaptor clamp	63, 90, 125 and 180mm	Ⓜ

Table showing all 'click-tight' liners available

Product code	Description	
604-000005	63mm Liner, each (4 required)	Ⓜ
604-000009	75mm Liner, each (4 required)	Ⓜ
604-000004	90mm Liner, each (4 required)	Ⓜ
604-000006	110mm Liner, each (4 required)	Ⓜ
604-000003	125mm Liner, each (4 required)	Ⓜ
604-000007	140mm Liner, each (4 required)	Ⓜ
604-000008	160mm Liner, each (4 required)q	Ⓜ

\* Note, other size liners available on request



Kit Bag

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.

Hy-Ram Engineering Co Ltd has a policy of continuous improvement in product quality and design. Hy-Ram Engineering Co Ltd therefore reserves the right to change the specification of its models at any time, without prior notice.

### **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. Check the pipe size and set the liners to suit. Turn the knobs anti-clockwise to release them and allow the top half of the clamping rings to be removed.
2. The liners are held in place with a spring loaded ball, they simply clip in and clip out of position.
3. Prepare the pipes to be joined using accepted procedures.
4. Place the clamp around each end of the pipes being welded.
5. Position the fitting in the centre of the clamp in between the two clamping rings.
6. Turn the knobs clockwise to secure the clamp, pipe and fitting in position.
7. The clamping rings can be moved closer and further away from each other by loosening the holding screw which releases the clamping pressure on the box section base. The rings can now be moved or removed from the base.
8. If elbows or tees are being held, then the holding screw can be released enough to allow the clamping ring to slide along the box section base the angle making joint piece can be set to the appropriate angle or the tee piece adapter box section can be fitted in place by locating the unit on the box section base.
9. If tees are being held, then the electrofusion side should be held and welded first, then the spigot outlet held and welded second. If the spigot is long enough, the tool can be used as a straight clamp. If there is not enough room, adjust the tool to a 90 degree angle and clamp between the main pipe and the side pipe.
10. The fitting is now constrained and ready for welding

### **Removal**

1. Turn Knob anti-clockwise to release clamp pressure. Remove tool from pipework.

## 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



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