

The **Highland Model 630 V2** electrofusion welding processor has been designed to be the most intuitive universal EF processor in the marketplace. It is designed to be operator friendly with a simplified interface incorporating a numeric/yes/no keypad, a wireless, rechargeable barcode scanner and laminated instructions mounted to the lid interior. The strong waterproof case provides protection against physical damage, while the retractable pull handle and wheels allow for easy portability. Along with physical reliability, the processor is designed to be operationally dependable. The processor is available in two power supply options (120V or 240V) to work with almost any power supply globally. It has an operating temperature range between -40°F and 122°F. This allows it to be used in all seasons and all regions.

The **Highland Model 630 V2** processor is designed to fuse HDPE, MDPE, PP, PPR and PPR-CT fittings from ½” up to 32” OD / 30” DIPS or 800mm. It has full traceability with data logging capabilities that can be downloaded to a USB memory stick. The processor is built to IP65 specs, CE approved and fully complies with the ISO International Standard for electrofusion welding equipment. It is standardly equipped with a barcode scanner and leads that have dual size welding tips for both 4.7mm and 4.0mm product which means...**NO MORE ADAPTERS!**



***Manufacturer recommended recalibration
24-month intervals, can be 12 or 36 months
\$300 USD recalibration fee**

**120V VERSION
240V VERSION**

**ISCO P/N 75063002
ISCO P/N 75064002**

Operating Mode	Manual, Barcode
Welding Voltage	39.5V (8V to 48V)
Welding Current	1A to 80A
Supply Voltage <small>(options)</small>	115V ±15% [120V] 230V ±15% [240V]
Supply Current <small>(options)</small>	1 – 30 A [120V] 1 – 15 A [240V]
Supply Frequency	40 – 60 Hz
Minimum Generator Size	3600W
Operating Temperature	-40°F to 122°F
Size	20" x 15" x 10"
Weight	61 lb
Data Log Memory	2048 Fusions
USB Download	Yes
USB Firmware Upgrade	Yes
Multi-Lingual Menus	Yes
Wireless Email and SMS Text	Optional
GPS Location Logging	Optional
Special QA/QC Functions	Optional
Warranty	1 Year

The **Highland Model 180** series of electrofusion welding processors have been designed specifically for service pipe installations where portability is important, while still keeping strength and reliability in mind. Each processor is in a strong waterproof and dustproof metal case, which is housed in either a tough nylon bag, a stainless-steel frame, or built into a generator known as the 180 Combo Unit.

The **Highland Model 180** processors are designed to fuse HDPE, MDPE, PP, PPR and PPR-CT fittings up to 8" IPS/ DIPS or 200mm. Each unit has full traceability with data logging capabilities that can be downloaded to a USB memory stick. The processors are built to IP65 specs, CE approved and fully comply with the ISO International Standard for electrofusion welding equipment. Each unit is standardly equipped with a rechargeable barcode scanner and leads that have dual size welding tips for both 4.7mm and 4.0mm product which means... **NO MORE ADAPTERS!**

BAG VERSION	120V ISCO P/N 75102180	240V ISCO P/N 75106002
STAINLESS-STEEL FRAME VERSION	120V ISCO P/N 75102181	240V ISCO P/N 75106003
180 COMBO VERSION	120V ISCO P/N 75102182	

Operating Mode	Manual, Barcode
Welding Voltage	39.5V (8V to 48V)
Welding Current	1A to 50A
Operating Temperature	10° to 110°F
Data Log Memory	2048 Fusions
USB Download	Yes
USB Firmware Upgrade	Yes
Multi-Lingual Menus	Yes
Wireless Email and SMS Text	Optional
GPS Location Logging	Optional
Special QA/QC Functions	Optional
Warranty	1 Year



BAG VERSION

Supply Voltage (options)	115V±15% / 230V ±15%
Supply Current (options)	1-25 A / 1-12 A
Supply Frequency	40-60 Hz
Generator Size	3000W
Size	12" x 9" x 10"
Weight	25 lb
Warranty	1 Year



FRAME VERSION

Supply Voltage (options)	115V±15% / 230V ±15%
Supply Current (options)	1-25 A / 1-12 A
Supply Frequency	40-60 Hz
Generator Size	3000W
Size	14" x 10" x 12"
Weight	34 lb
Warranty	1 Year

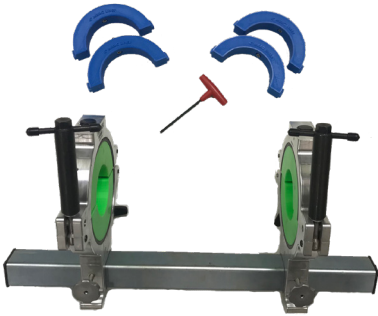


COMBO VERSION

Supply Voltage	Self-Contained 115V ± 15%
Supply Current	Self-Contained 1 - 16 A
Supply Frequency	Self-Contained 40-60 Hz
Generator Size	Self-Contained 2800W
Size	23" x 17" x 16"
Weight	110 lb
Warranty	1 Year

***Manufacturer recommended recalibration 24-month intervals, can be 12 or 36 months \$300 USD recalibration fee**

The **Highland Electrofusion Multiclamp** has been designed to hold, align, and reround pipe from 3" - 12" IPS/MM (4" - 10" DIPS). This clamp comes in two versions, 3"-6" and 8"-12". This tool has removable inserts that line the clamp to the correct diameter. Larger diameter pipes are often oval due to storage conditions or being provided as coils. This tool has hard solid shells that reround the pipe allowing easier insertion into couplers and fittings. The holding rings of the tool rotate to allow 45 or 90 degree elbows to be held as well as tees.



MULTICLAMP - Small

3", 4", 6":
3"-6" Size:
3"-6" Weight:
Type:

ISCO P/N 77067411
25.75" x 10.75" x 14.25"
21 lbs
Couplers, elbows, reducers, tees



MULTICLAMP - Large

8", 12":
8"-12" Size:
8"-12" Weight:
Type:

ISCO P/N 77067414
15.75" x 19" x 25.5"
45 lbs
Couplers, elbows, reducers, tees

The **Highland Electrofusion Straight Clamp** has been designed to re-round, align, and restrain 2"-12" IPS pipes. Larger sizes, along with different types of pipe (i.e., metric or DIPS) can be provided upon request.

These clamps are compact and lightweight, designed for fusions in tight, confined spaces. The clamps have removable upper jaws that aid in easy joint assembly and tool removable after fusion.

There are three versions of the Highland Electrofusion Straight Clamp: size specific 2-jaw clamps from 2"-8", combination 2-jaw clamps in 8"x6" or 12"x8", and a 4-jaw combination 8"x6" clamp.



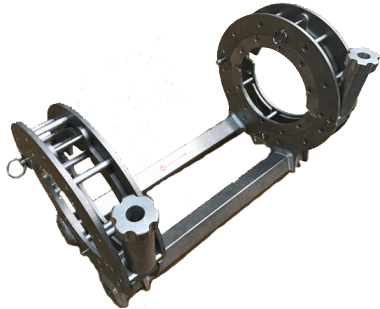
STRAIGHT CLAMP

Range: 2"-12" IPS



SIZE-SPECIFIC 2-JAW CLAMP

2-JAW 2":	ISCO P/N 76670911
2-JAW 3":	ISCO P/N 76670912
2-JAW 4":	ISCO P/N 76670913
2-JAW 6":	ISCO P/N 76670914
2-JAW 8":	ISCO P/N 76670915



COMBINATION 2-JAW CLAMP

2-JAW 8" with 6" inserts:	ISCO P/N 76060919
2-JAW 12" with 8" inserts:	ISCO P/N 76060918



COMBINATION 4-JAW CLAMP

4-JAW 8" IPS with 6" IPS inserts:	ISCO P/N 76064068
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The **Highland** range of Electrofusion Tooling is designed to ensure the correct preparation and alignment of pipes into electrofusion fittings prior to fusion. They will prepare and hold HDPE, MDPE, PP, PPR, PPR-CT pipe and fittings.

The first key step to a high-quality joint is cleaning and peeling of pipe ends prior to insertion into the fitting. The **Highland Peeler** is designed for use on 2" diameter to 12" diameter DR 11 pipes. It is semi-automatic, clamping onto the wall of the pipe and rotating around while peeling a continuous ribbon 0.008" thick from the pipe's outer surface. This quick and easy to use tool ensures the optimum preparation is made to the pipe OD.

The second key step to a high-quality joint is clamping the pipes to avoid movement during the fusion process. Any movement or misalignment can result in a poor or failing joint. The **Highland Variclamp** has been designed to hold and align pipe from 1/2" - 2" IPS/CTS/MM or in any combination, helping the pipes' alignment and preventing movement during the fusion. This clamp has rotatable profiles having up to seven different sizes on them that allow quick selection of the pipe diameter for both couplers and reducers. It also bends to 45 or 90 degrees to allow elbows to be held.

The **Highland Top Load Strap Saddle Clamp** has been designed to secure EF branch saddles up to 4" outlet size and all size Tap Tees. Its top load design is easy to operate with straps that will fit main pipes up to to 24" (630mm). Spring tension and ergonomic tightening knob assure the operator proper centerline loading of the EF fitting to ISO standards. Lightweight and compact design along with a pelican style storage case makes this the ultimate EF sidewall fusion multi-tool.



PEELER

Range:
Cut Depth:
Size:
Weight:

ISCO P/N 77067412

2"-12" DR 11 Pipes (4"-10" DIPS)
0.0008"
16" x 8.25" x 6"
13 lbs



VARICLAMP

1/2, 1, 1 1/4, 2" IPS 1/2, 1, 1 1/4" CTS:
1/2, 3/4, 1, 1 1/4, 1 1/2, 2" IPS:
16, 20, 25, 32, 40, 50, 63 MM:
Type:
Size:
Weight:

ISCO P/N 77067413

ISCO P/N 76067513

ISCO P/N 76067413

Couplers, Elbows, Reducers, Tees, Caps
9" x 6" x 7"
3 lbs



TOP LOAD STRAP CLAMP

Range:

Size:
Weight:

ISCO P/N 76060040

1"-4" (32mm-110mm) Branch Saddle
onto any size Main up to 24" (630mm)
Any size Tapping Tee onto any size Main
up to 24" (630mm)
8" x 5" x 5"
3 lb

**Note: Use only with size specific main fittings, no combo main bases.