



The logo for Plasson USA, featuring a stylized 'P' icon followed by the text 'PLASSON' and 'USA' below it.

PLASSON  
USA

# TOOLING



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## PolyCode (USB + Bluetooth)

32308S324

Electrofusion Processor for welding of small fittings

For all EF fittings up to 6" IPS

Mounted in plastic suitcase

### Technical Specifications

Part number	32308S324
Output current	75 A (54 A peak current)
Welding voltage	8-48 V
Power supply	110 VAC
Weight	24.25 lbs
Dimensions	18.5 x 7 x 14.5 in
Welding cable length	46.5 in
Data recording	1000 welding cycles, downloadable by USB memory stick
Display	4 lines alphanumeric display, available in 26 languages



### Welding Data Input

- Plasson "SmartFuse" automatic welding data input
- Barcode reading (including temperature compensation)
- Manual input of barcode digits

\* At long welding cycles, cool down time equal to the welding time is required

# Polymatic - Plus (USB) + Bluetooth

3F2306303

## Electrofusion Processor

- BARCODE-System
- Plasson Smart-System
- MANUAL-Mode
- Data Recording with USB-Interface
- Traceability functions conform to ISO12176-3/4



## Technical Specifications

ISO 12176-2 Class	P2 4 U S1 V AK D X
Input voltage	110V ~/AC, (90V-150V)
Input current	32A
Input frequency	50Hz (40-70Hz)
Power factor	cos p < 0.6 – 0.9 (Phase Angle Control)
Output voltage	8-48V AC/~
Output current	80A (max. 110A)
Energy adjustment	Temperature Compensation
Power consumption	3600VA
Temperature range	14°F - +120°F
Protection class	CE, IP54, Class 2
Weight incl. cables	50.7 lbs
Main supply cable	16.4 ft
Welding cable	16.4 ft
Welding terminals	4.0 - 4.7 mm
Display	4 x 20 Characters (alphanumerical), background lighting
Dimensions	17.3 in x 15 in x 12.6 in

## Monitoring Functions

Input	Voltage / Current / Frequency
Output	Voltage / Resistance / Contact / Short Circuit / Current Monitoring
Other	System / Working Temperature / Service
Error messages	Plain Text / Acoustic Signal

## Enclosed Parts

Items	Processor Box, Transport Box, Adapter 0.4/0.47 cm, Instruction Manual, USB-flash memory
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## Data Recording-Polymatic Plus

Number of reports	1000
Interface	USB (USB-flash memory included)
Data format	PDF / CSV

## Recorded Data

General data	Commission Number (40 digits alphanumerical) Weather (DVS) / Joint Number / Report Number
Fusion data	Voltage / Current / Nominal and Actual Welding Time / Mode / Resistance / Error Messages with 10 Voltage-Current Values
Device data	Serial Number / Inventory Number / Date of Last Service / Working Hours / System Configuration
Operator code	Barcode (PF or ISO 12176-3) for operator identification and access to manual input and system configuration
Weather condition	DVS 2207 / 2208
Welding barcode	ISO-13950

## Other Functions

Output options	Whole Memory / Comm.-No.
Commission number input/selection	Barcode, Manual, Internal List of 75 Comm.-No. for Selection

# Polymax - 110V + Bluetooth

4PM00110

## Electrofusion Processor

- BARCODE-System
- Plasson Smart-System
- MANUAL-Mode
- Data Recording with USB-Interface
- Traceability functions conform to ISO12176-3/4
- SmartFuse App compatibility
- Inverter Technology (more fusions per hour)
- Lighter weight



## Technical Specifications

ISO 12176-2 Class	P2 3 U 2 V AK D X
Input voltage	110V ~/AC, (90V-150V)
Input current	33A
Input frequency	50/60Hz (40-70Hz)
Output voltage	8-48V AC + DC
Output current	(t=∞) 40A (max. 110A)
Energy adjustment	Temperature Compensation
Power consumption	3680VA
Temperature range	14°F - 122°F (-10°C - +50°C)
Protection class	IP54
Weight incl. cables	26 Lbs (12kg)
Main supply cable	16.4 Ft (5m)
Welding cable	16.4 Ft (5m)
Welding terminals	4.0 - 4.7 mm
Display	4 x 20 Characters (alphanumeric), background lighting
Dimension	15.75" x 11.81" x 10.24" (400mm x 300mm x 260mm)

## Monitoring Functions

Input	Voltage / Current / Frequency
Output	Voltage / Current / Resistance / Contact / Short Circuit
Other	System / Working Temperature / Service
Error messages	Plain Text / Acoustic Signal

# Polymax - 240V + Bluetooth

4PM00240

## Electrofusion Processor

- BARCODE-System
- Plasson Smart-System
- MANUAL-Mode
- Data Recording with USB-Interface
- Traceability functions conform to ISO12176-3/4
- SmartFuse App compatibility
- Inverter Technology (more fusions per hour)
- Lighter weight



## Technical Specifications

ISO 12176-2 Class	P2 4 U S2 V AK D X
Input voltage	230V ~/AC, (190V-300V)
Input current	16A
Input frequency	50/60Hz (40-70Hz)
Output voltage	8-48V AC + DC
Output current	(t=∞) 40A (max. 110A)
Energy adjustment	Temperature Compensation
Power consumption	3680VA
Temperature range	14°F - 122°F (-10°C - +50°C)
Protection class	IP54
Weight incl. cables	26 Lbs (12kg)
Main supply cable	16.4 Ft (5m)
Welding cable	16.4 Ft (5m)
Welding terminals	4.0 - 4.7 mm
Display	4 x 20 Characters (alphanumerical), background lighting
Dimension	15.75" x 11.81" x 10.24" (400mm x 300mm x 260mm)

## Monitoring Functions

Input	Voltage / Current / Frequency
Output	Voltage / Current / Resistance / Contact / Short Circuit
Other	System / Working Temperature / Service
Error messages	Plain Text / Acoustic Signal

## PolyControl Plus (USB) V.2.0

3F0318V112

### PolyControl: New Controller Technology for Large Diameter Fittings

Large diameter fittings require heavy-duty processors and generators to supply the necessary power. This heavy load necessitates cooling of the transformer between welding cycles. In response to this common problem, Plasson has developed a new processor, with integral cooling and novel power transformer technology to reduce cycle time to a minimum.

Allows at least 4 successive welding cycles, without pause, efficient in hot and cold weather. Only 10 minutes cooling required after 7,000 seconds of welding.



### Technical Specifications

Plasson PolyControl Plus (USB) V.2.0

ISO 12176-2 Class	P2 3 U S1 V AK D X
Input voltage	220V ~/AC, (185V-300V)
Input current	16A
Input frequency	50Hz (40-70Hz)
Output voltage	8-48V DC
Output current	(t=∞) 85A (max. 110A)
Energy adjustment	Temperature Compensation, Inductivity compensation
Power consumption	3600VA
Temperature range	14°F - 122°F (-10°C - +50°C)
Protection class	IP54
Weight incl. cables	34 Lbs (15.5kg)
Welding Terminal	4.0 - 4.7 mm



Turn your PLASSON Processor Box into the ultimate welding machine with our **new Smartphone App.**



## Available now

Features of the Free Upgrade

- ✓ **Smartphone control** of your box, with no mobile network coverage needed
- ✓ **Improved quality control** with guided welding process and photo capture of crucial steps (kept with the weld record)
- ✓ **Data recording** including physical location of each weld
- ✓ Ability to **identify installer** of each weld
- ✓ Ability to **weld all fittings\***



Smarter fusion with PLASSON.



\*Monomatic Control Boxes will be limited to emergency welds of other fittings

## Plasson Processor Box Dynamic

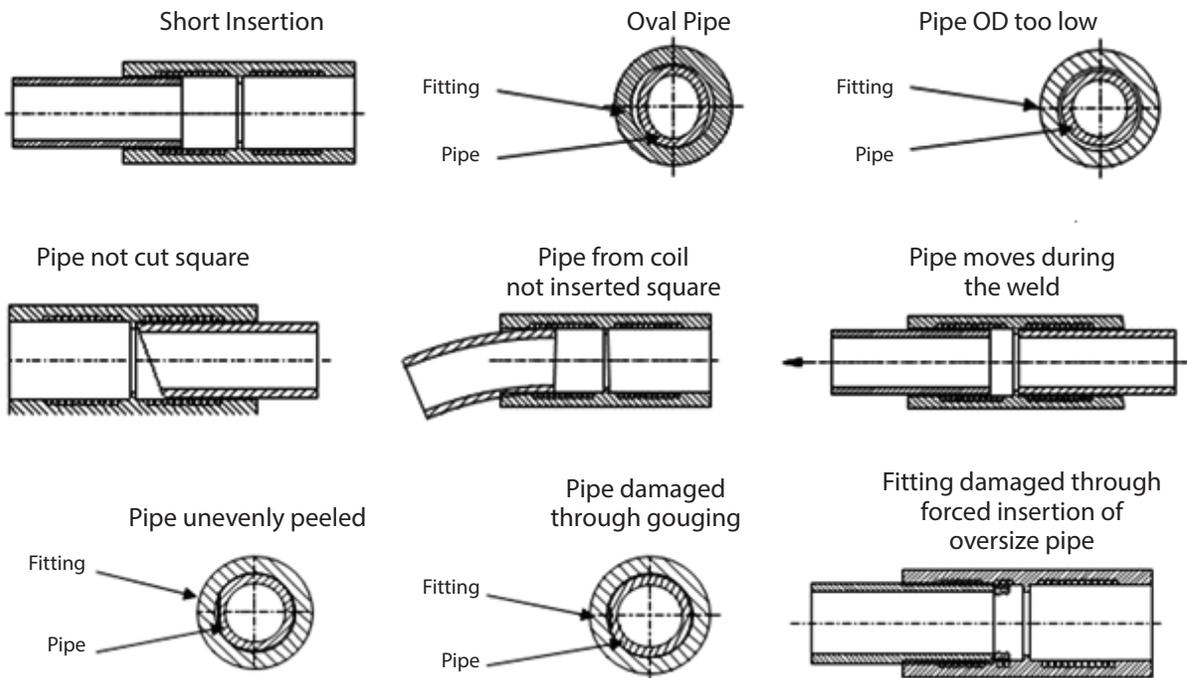
Plasson processor boxes dynamically monitor the weld process when used with Plasson ElectroFusion fittings.

- Dynamic monitoring - By continually monitoring the weld current, it will shut down if the current increases above the dynamic tolerance range, thereby avoiding the overheating and anti-oxidant depletion of PE materials which can adversely affect long-term weld integrity.
- Generator variability tolerance are tolerant to generator variability as they accept a large voltage range and frequency variation.
- Numerous servicing centers for PF welding equipment are available.

### What can go wrong?

Without dynamic monitoring, faults may occur unnoticed during the weld process causing the fitting to fail once in general use. Common causes of this can be seen in the diagram below.

## Typical Electrofusion Welding Faults



### Please note:

We will not carry out this dynamic monitoring process on other manufacturers' fittings.

# Battery Powered Chain Peeler



- ✓ Reduce pipe peeling time by almost 75%
- ✓ A new battery powered solution for the fast, more efficient and reliable preparation of large bore PE pipe for electrofusion welding.
- ✓ For use on 14" DIPS to 32" IPS, with an optional extension, replaces hand powered tools to remove the oxidised and contaminated outer layer on PE pipe by peeling a consistent 0.007 to 0.010mm layer from the pipe surface.  
A version for pipe 30" DIPS - 48" DIPS is also available.  
Optional extension to 63" IPS/60" DIPS available.
- ✓ The chain peeler is designed to work with challenges of ovality, flatness and varying pipe wall thickness, resulting in very large reductions in coupler handling times.
- ✓ Supplied with two quick charge batteries.



Scan here for a look at our Electric Chain Peeler!



# Take good care of your PLASSON processor box

It is recommended that processor boxes are serviced every 24 months or 400 hours of operation\*

\*The timing for recalibration of the Plasson processor box begins when the processor box is used for its first electrofusion.



Frequent servicing of your processor box reduces the risk of operational problems interrupting the work flow and costing you money.

## A standard service includes:

- Installation of latest software
- Inspection and testing of all components
- Calibration Certificate
- Replacement of wear & tear components, as necessary
- Recalibration Certificate
- ***All Plasson processor recalibrations and repairs are done in-house at our Sugar Land, TX facility in 3-5 business days!***

## Manual Saddle Peeler

4\_4200\_060 | 4" IPS and larger



## Pipe End Peelers

### Raspatubos Giratorios

4\_4200\_015 | 3" IPS - 6" DIPS

4\_4200\_027/1 | 3" IPS - 10" DIPS

4\_4200\_016 | 8" IPS - 14" DIPS

4\_4200\_050 | Pipe End Peeler w/ SQ Drive 3" IPS - 6" DIPS

4\_4200\_051 | Pipe End Peeler w/ SQ Drive 3" IPS - 10" DIPS



4\_4200\_062 | 4" IPS - 18" DIPS Pipe End Peeler



## Rotational Peelers

4\_4200\_001 | 1/2" IPS - 2" IPS

4\_4200\_031 | 1/2" IPS - 4" DIPS

4\_4200\_032 | 3" IPS - 8" IPS

4\_4200\_033 | 4" IPS - 10" DIPS



## Chain Peelers

### Cadenas Raspadoras Giratorias

4\_4200\_013 | 4" - 16" IPS

4\_4200\_008 | 20" IPS - 30" Extension Kit

4\_4200\_009 | 10" - 30" IPS / 10" - 24" DIPS

4\_4200\_012 | 32" - 48" IPS / 30" - 42" DIPS

4\_4200\_029 | 10" - 36" IPS

4\_4200\_010 Extension Kit for 30" DIPS - 36" DIPS



## U-Peelers

### Monodimensional Offered in IPS and DIPS Sizes

4\_4800\_060 | 2" IPS U-Peeler

4\_4800\_088 | 3" IPS U-Peeler

4\_4800\_114 | 4" IPS U-Peeler

4\_4800\_168 | 6" IPS U-Peeler

4\_4800\_219 | 8" IPS U-Peeler

4\_4800\_273 | 10" IPS U-Peeler

4\_4800\_323 | 12" IPS U-Peeler

4\_4800\_121 | 4" DIPS U-Peeler

4\_4800\_175 | 6" DIPS U-Peeler

4\_4800\_229 | 8" DIPS U-Peeler

4\_4800\_281 | 10" DIPS U-Peeler

4\_4800\_335 | 12" DIPS U-Peeler



## Pipe End Peelers with Mandrels

- 4\_4200\_103 Pipe end peeler 3/4" IPS - 2" IPS w/mandrels
- 4\_4200\_S103 Pipe end peeler 3/4" IPS - 2" IPS w/mandrels+cordless drill



## Electric or Battery Operated Peelers

- 4\_4200\_025 | Electric peeler for saddles 110V
- 4\_4200\_046 | Battery operated electric peeler for saddles (110 V charger)
- 4\_4200\_026 | Battery Operated Saddle Peeler 230V



- 4\_4200\_040 | Battery operated chain peeler for EF couplings 14" DIPS-32" IPS (110V)
- 4\_4200\_041 | Battery operated chain peeler for EF couplings 30" DIPS-48" IPS (110V)
- 4\_4200\_036 | Battery Operated Chain Peeler 14" DIPS – 32" IPS, Includes 2 Batteries & 1 Charger (230V)
- 4\_4200\_037 | Battery Operated Chain Peeler 30" DIPS – 48" IPS, Includes 2 Batteries & 1 Charger (230V)
- 4\_4200\_302 | Battery Operated Pipe End Peeler 16" DIPS – 40" IPS Battery Powered (110V)



## Pipe Shears

### Cortadores de tuberías

- 5\_3000\_007 | 1/2" CTS - 2 IPS (one hand operation)      1/2" CTS - 2 IPS (operación con una mano)
- 5\_3000\_008 | Spare blade for 5\_3000\_007                      Cuchilla de reserva para 5\_3000\_007



## Pipe Cutting Tools - Rotational Pipe Cutters

### Cortadores de tubería giratorios

- 4\_4400\_006 | 1" IPS - 4" DIPS
- 4\_4400\_002 | 1" - 3" IPS
- 4\_4400\_004 | 4" IPS - 8" DIPS
- 4\_4400\_005 | 4" IPS - 10" DIPS



## Pipe Cutting Tools - Electric Saw

- 4\_4401\_006 | 8" IPS – 16" IPS Rotary Pipe Cutting Saw (110V) w/ Shavings Collection Anti-Static Bag
- 4\_4401\_001 | 20" IPS – 42" DIPS Rotary Pipe Cutting Saw (230V) 3.35" Cutting Depth



## Guillotine Pipe Cutter

4\_4400\_010 | 3" IPS – 8" IPS / 3" - 6"DIPS



## Pipe Clamping Tools

Herramientas de sujeción de tubos

4\_4300\_000 | 1/2" IPS - 2" IPS



4\_4300\_001 | 1" IPS - 4" IPS

4\_4300\_002 | 4 IPS - 8 DIPS

4\_4300\_009 | 2"IPS - 8"DIPS EF Coupling/Elbow Adjustable Pipe Clamp



4\_4300\_023 | 4" IPS - 22" IPS Strap Clamp with 4 Clamps and 1 Angle Piece

4\_4300\_025 | 2" IPS - 10" IPS Strap Clamp

4\_4300\_026 | 10" IPS - 30" IPS Strap Clamp with Puling Shoes



4\_4301\_001 | Single Sided Ball Joint for EF Adjustable Elbow, Clamp 4" - 22"

4\_4301\_011 | Double Sided Ball Joint for Adjustable Elbow, Clamp 1" - 4", 2" - 8"

4\_4301\_002 | Double Sided Ball Joint for EF Adjustable Elbow, Clamp 4" - 22"



## Pipe Rollers and Supports

Rodillos para tubos y rodillos de apoyo

4\_4601\_001 | 12" DIPS max. with rubber roller

12" DIPS máx. con rodillo de goma



4\_4601\_003 | 10" DIPS max. support

10" DIPS máx. de apoyo



4\_4300\_026 | 10" DIPS max. support for workbench incl. adaptor 32 mm

10" DIPS máx. de apoyo para mesa de taller con adaptador de 32mm



## Chamfering Tools

Biseladoras

5\_3004\_002 | 2" IPS - 8" DIPS  
079600063020 | 1/2" IPS - 2" IPS



## Re-Rounding Tools

### Redondeadores

- 4\_4602\_005 | 2" IPS - 6" DIPS
- 4\_4602\_003 | 4" IPS - 8" IPS
- 4\_4602\_004 | 6" DIPS - 12" IPS
- 4\_4602\_009 | 10" IPS - 16" IPS



- 4\_4602\_017 | 16" DIPS - 28" IPS  
Hydraulic rounding tool
- 4\_4602\_018 | 28" IPS - 48" DIPS  
Extension Kit for 4\_4602\_017
- 4\_4602\_019 | 16" DIPS - 48" DIPS  
Hydraulic rounding tool



## Size Specific Re-Rounding Tools

### Redondeadores

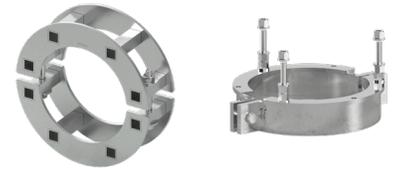
- 4\_4602\_160 | Re-Rounding Circle Clamps

#### (Heavy Duty w/ two tightening screw)

- 4\_4602\_088 | 3" IPS Re-Rounding Ring
- 4\_4602\_114 | 4" IPS Re-Rounding Ring
- 4\_4602\_168 | 6" IPS Re-Rounding Ring
- 4\_4602\_219 | 8" IPS Re-Rounding Ring
- 4\_4602\_273 | 10" IPS Re-Rounding Ring
- 4\_4602\_323 | 12" IPS Re-Rounding Ring
- 4\_4602\_406 | 16" IPS Re-Rounding Ring

#### (Low Profile w/ one tightening screw)

- 5\_3006\_060 | 2" IPS Re-Rounding Ring
- 5\_3006\_088 | 3" IPS Re-Rounding Ring
- 5\_3006\_114 | 4" IPS Re-Rounding Ring
- 5\_3006\_168 | 6" IPS Re-Rounding Ring
- 5\_3006\_219 | 8" IPS Re-Rounding Ring



## EF Wipes

- 8110FW0025 | EF Cleaning wipes 6" x 9" 100 count



## EF Accessories

### Biseladoras

- 2\_4701\_036 HVTT T-Handle Wrench w/ 5/8" Hex
- 2\_4701\_035 Std. TT T-Handle Wrench w/12mm Hex
- 2\_9202\_000 Std. TT Hex Key Wrench 1/2" Socket Drive w/12mm Hex
- 2\_4701\_039 HVTT Hex Key Wrench 1/2" Socket Drive w/ 5/8" Hex



- 2\_0300\_017 4.7mm to 4.0mm EF Adapter Tips – Straight (1 Pair)
- 2\_0300\_001 4.7mm to 4.0mm EF Adapter Tips – Angled (1 Pair)
- 2\_0300\_004 4.0mm to 4.7mm EF Adapter Tips – Angled (1 Pair)



- 1\_2800\_026 Polycontrol Plus EF Flight Case
- 1\_2800\_033 Polymatic Plus EF Flight Case
- 1\_2800\_000 Transport Box PE, Orange 2nd Generation



# Qualification of Plasson Electrofusion Fittings for Gas Distribution

## Standards:

- ASTM D2513-08b: Standard Specification for Thermoplastic Gas Pressure Pipe, Tubing, and Fittings
- ASTM F1055-98(2006): Standard Specification for Electrofusion Type Polyethylene Fittings for Outside Diameter Controlled Polyethylene Pipe and Tubing

## Assessment Requirements:

- Review and approval of new product test and validation plans
- Completion of 2 on-site quality audits of the test laboratory and manufacturing facility
- Verification of Plasson's capabilities to perform testing per ASTM F1055 and ASTM D2513
- Audit of Plasson's new product qualification data

## Results:

Based on this assessment, Jana attests that Plasson maintains:

- An ISO 9001:2000 Quality System covering manufacturing, design and testing certified by the Standards Institute of Israel
- Sophisticated manufacturing and information systems with complete raw material traceability; each serialized part is traced through manufacturing, testing and delivery
- A rigorous approach to in-process and batch release Quality Control testing in accordance with ASTM F1055 and ASTM D2513
- A comprehensive new product test plan to verify fitting performance per the requirements of ASTM F1055 and ASTM D2513
- A resin supply per the requirements of ASTM F1055 and ASTM D2513 and listed per PPI TR-4 as PE 4710
- A comprehensive validation plan with PE 2406, PE 3408 and PE 4710 pipe

**Based on this assessment, Jana attests that electrofusion fittings manufactured by Plasson are in conformance with ASTM F1055 and ASTM D2513.**