

# ELECTROBRAZE

Argentum Capillus

## PINBRAZING SPECIALISTS EQUIPMENT CATALOGUE



## Foreword

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We have always believed that the simplest way to solve a problem is usually the best and that there is always a way, a way to keep moving forward.

This company was formed on those basic principles. Our creativity and dedication in practice has seen a huge success for Pin Brazing and Electrical Bonding throughout many industries from Railroad to Offshore, Water and other utilities to Petrochemical and beyond.

Pin Brazing, based upon Brazing, forms part of a technology developed in Sweden throughout the latter half of the 20<sup>th</sup> century, by enthusiastic, dedicated and hard working people. The purpose, for attaching current carrying cables to what were deemed "Sensitive Substrate Materials", or in this case Railroad Track Signal Bonding, Grounding Circuits and Earthing of Pylons. In later years the Pin Brazing process and Products were developed for use In the Oil, Gas and Utilities Industries as a safe method of connecting cables to Pipelines. The most popular application being for Cathodic Protection purposes including the attachment of Cathodic Protection System Sacrificial Anode Cables, Test Post Cables, Continuity Bonding between Pipeline Sections, Connection of Monitoring Cables, Earthing and A.C. Mitigation Systems.

Due to the Portability, Ease of Use and Versatility of a system that can be either Battery Powered or in Offshore and Workshop applications attached to a Welding Generator for continual use, the Pin Brazing System has become the ultimate solution for the Electrical Bonding of Sensitive Substrate Materials worldwide.

Alone this product inspires better solutions and services with new applications and technologies, which allow us to meet new customers and more exciting challenges.

We endeavour to bring you exactly what you need, by providing a wealth of experience and support with minimal disruption to your company and our environment, all at a cost that is both realistic and competitive. We shall keep you, the discerning end user, your requirements and requests at the focal point of our considerations, as meeting your professional expectations requires continual effort and more than a few nightshifts, but this is exactly the challenge that keeps us alive and kicking.

There is always a way!



Glenn Symington  
Managing Director and Founder



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## Pin Brazing Gun - ZE7000

With Electrobraze one Gun is all you need... Our ZE7000 is Long Reach as Standard, both Welding Generator and Battery Pack Compatible with a range of Bolt-on Accessories.



### Specifications:

- Lightweight and well balanced – Only 2.0kg (4.4Lbs)
- Marine Grade Stainless Steel Construction
- Precision Bearing Technology
- Fine Braze Adjustment System
- Fail Safe, Auto Reset Trigger Mechanism
- Ergonomic Design
- Operating Temperature Range -40°C (-40°F) to 80°C (176°F)
- Compatible with Fuse wire controlled Direct and Threaded Brazing Pins
- Designed for both Welding Generator and Battery Pack power supply.

Electrobraze Limited - Registered in England and Wales, No. 07022364. VAT Registration No. 979437945/EORI GB979437945000

Registered Office - 25 Poplar Drive, Wellington, Telford, Shropshire, TF1 3NG, England, United Kingdom.

Office/ Business Fax – 00 44 (0) 1952 247 405 Email – [enquiries@electrobraze.com](mailto:enquiries@electrobraze.com) Website – [www.electrobraze.com](http://www.electrobraze.com)

## Features:

- Unique Adjustment Mechanism allows for safer and easier set-up.
- Precision Bearing Solenoid Control
- Adjustable Braze Timing Control to combat URHD
- Adjustable grip size, Quick-release Ergonomic Pistol grip
- Extremely Durable all weather HPX™ Water Proof Resin Enclosure
- Toolkit and Spares Compartment



## Options:

- Heavy Duty Utility Upgrade, consisting – Surefire™ LED Mounted Flashlight for Low Visibility conditions or Confined Space Works, Bungee Sling and Mountings
- Integral Magnetic Earth/Return system
- Extension-Lance for Vacuum Excavation Urban Retrofitting

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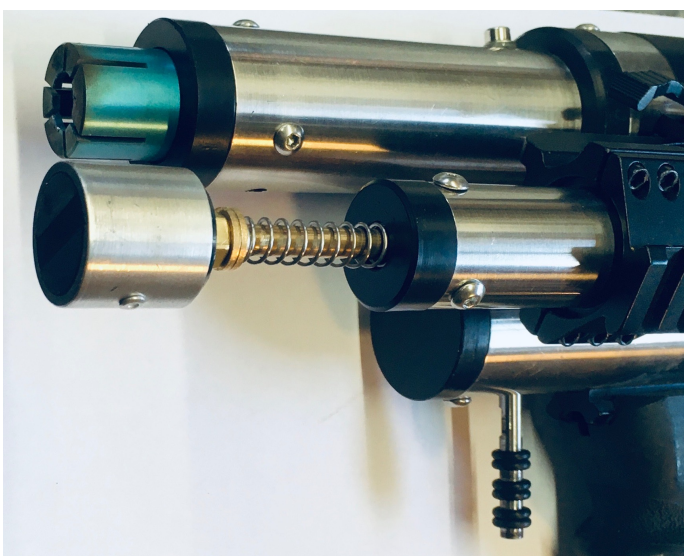
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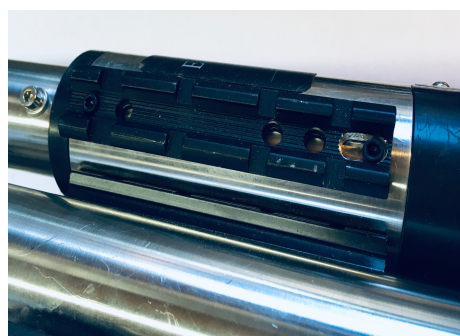
## Pin Brazing Gun Integral Earth Device - IED7000

Compatible with the ZE7000 Electrobraze Pin Brazing Gun. Originally designed for use in conjunction with the EXL7000 Extension Lance, but can be a convenient stand-alone accessory, providing stability portability.

- **Earth Extension Cable supplied Attaches to rear of the Device for connection to a suitable battery pack.**
- **Integral Earth device easily connects and disconnects to the Brazing Gun using quick release connectors and a supplied Dovetail Rail.**



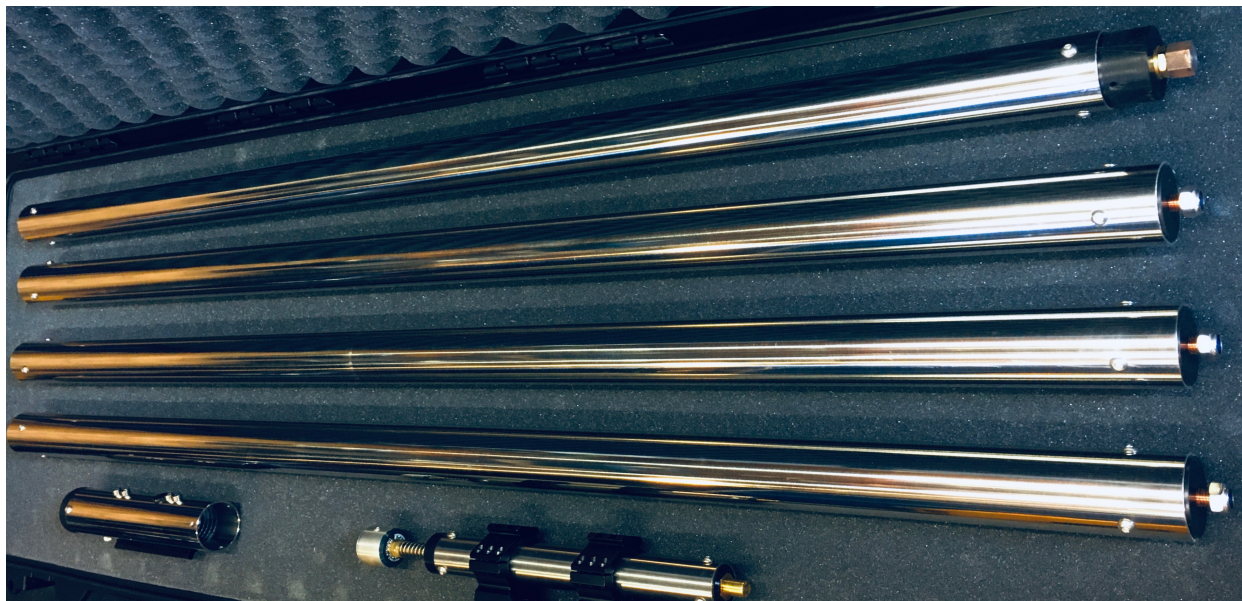
- **Dovetail Rail Supplied Bolts Directly to the existing service holes on the ZE7000 Pin Brazing Gun**



## Pin Brazing Extension Lance - EXL7000

Compatible with the ZE7000 Electrobraze Pin Brazing Gun and designed for use specifically with Vacuum Excavated Holes or similar Vertical Excavations, Allowing you to achieve remote Pin Brazing connections between 1 and 4 Meters Deep (approximately 3 to 13ft).

Image shown with optional Integral Earth Device Attachment



- **Supplied with Military Grade Pelican Stormcase. Features four independently Connecting one Metre (39") sections and Independent Trigger device.**

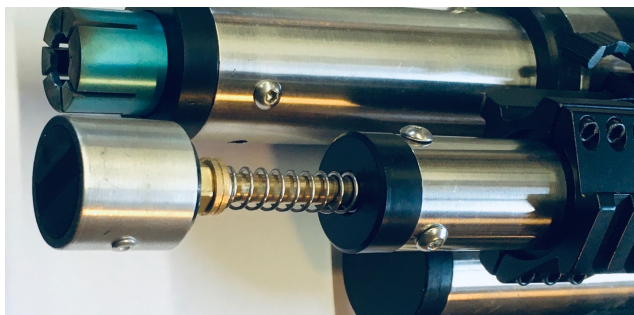


- **Independent Trigger Device will attach to any of the extension sections to remotely operate the brazing gun.**





- **Extension Lance easily connects directly to the rear section of the ZE7000 Pin Brazing Gun to bypass the trigger.**



- **Optional Integral Earth Device (IED7000), bolts directly to the body of your existing ZE7000 Pin Brazing Gun.**

### **Specifications and Features:**

- Lightweight – Only 10 Kilos 22Lbs (18.0kg (39.6Lbs) Including Case and Foam)
- Optional Integral Earth Device (IED7000), bolts directly to the body of your existing ZE7000 Pin Brazing Gun.
- Marine Grade Stainless Steel Construction
- Extends 1 – 4 Metres Fine Braze Adjustment System
- Remote Trigger Mechanism
- Ergonomic Slimline Design
- Operating Temperature Range -40°C (-40°F) to 80°C (176°F)
- Compatible with Fuse wire controlled Direct and Threaded Brazing Pins
- Designed for both Welding Generator and Battery Pack power supply.
- Military Spec Pelican HPX™ Water-Proof Enclosure (L)1199mm x (W) 419mm x (H) 170mm

## Pin Brazing System - EB3613 Heavy Duty Battery Pack

On-Site Equipment, Designed for use in Extreme Environments and Remote Locations, Durable, Versatile and Reliable with NO Electronic Components or Battery Pre-heating Requirements.

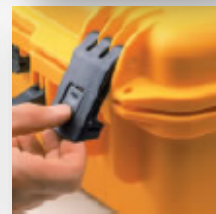
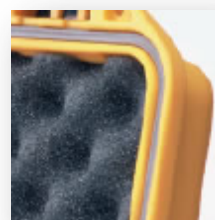


### Specifications:

- Capacity – Approximately 80 Attachments per-charge-Cycle
- Battery Charging / Operating Temperature Range -40°C (-40°F) to 80°C (176°F)
- External Dimensions (mm) 299 x 248 x 195 (Ins) 12 x 10 x 8
- Weight (Kg) 16.2 (Lbs) 35.64

### Features:

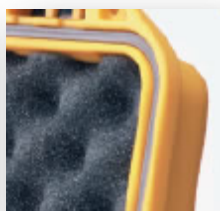
- Water-proof O-ring Gasket
- Vortex™ Automatic Pressure Release Valve
- Double-layered, Cushioned Fold-away Rubber Handle
- Padlockable Moulded-in Hasps
- Extremely Durable all weather HPX™ Resin Enclosure
- Supplied complete with Multi-Stage Compact Charger unit.





## Worlds Smallest Pin Brazing System - EB3608 Light Weight Battery Pack

On-site Equipment, Designed for use in Extreme Environments and Remote locations, Durable, Versatile and Reliable with no Electronic Components or Battery pre-heating Requirements.



### Specifications:

- Capacity – Approximately 20 Attachments per-charge-Cycle
- Battery Charging / Operating Temperature Range -40°C (-40°F) to 80°C (176°F)
- External Dimensions (mm) 299 x 248 x 119 (Ins) 12 x 10 x 4.5
- Weight (Kg)10 (Lbs)22

### Features:

- Water-proof O-ring Gasket
- Vortex™ Automatic Pressure Release Valve
- Double-layered, Cushioned Fold-away Rubber Handle
- Padlockable Moulded-in Hasps
- Extremely Durable all weather HPX™ Resin Enclosure
- Supplied complete with Multi-Stage Compact Charger unit

## Pin Brazing System - EB3616 Heavy Duty Battery Pack

On-Site Equipment, Designed for use in Extreme Environments and Remote Locations, Durable, Versatile and Reliable with NO Electronic Components or Battery Pre-heating Requirements.

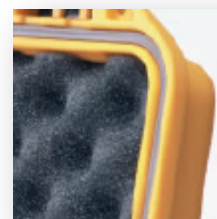


### Specifications:

- Capacity – Approximately 120 Attachments per-charge-Cycle
- Battery Charging / Operating Temperature Range -40°C (-40°F) to 80°C (176°F)
- External Dimensions (mm) 299 x 248 x 195 (Ins) 12 x 10 x 8
- Weight (Kg) 21.2 (46.6 Lbs)

### Features:

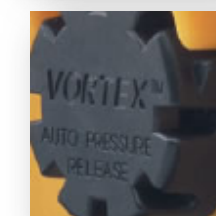
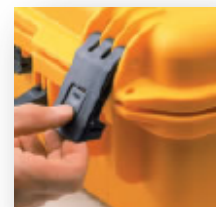
- Water-proof O-ring Gasket
- Vortex™ Automatic Pressure Release Valve
- Double-layered, Cushioned Fold-away Rubber Handle
- Padlockable Moulded-in Hasps
- Extremely Durable all weather HPX™ Resin Enclosure
- Supplied complete with Multi-Stage Compact Charger unit.



## EB3626 Heavy Duty Pin Brazing System Battery Pack

Up to 200 Brazes Per Charge Cycle (50kg) (110lbs)

Heavy Duty all-weather Battery Pack, developed for Pin Brazing operations within the Cathodic Protection, Offshore, Rail and Utilities Industries. Integral Running Wheels and Retractable Handle. Supplied complete with Multi-Stage Compact Charger Unit



### Specifications:

- Capacity – Approximately 200 Attachments per-charge-Cycle
- Battery Charging / Operating Temperature Range -40°C (-40°F) to 80°C (176°F)
- External Dimensions (mm) 551 x 358 x 226 (Ins) 20 x 14 x 9
- Weight (Kg) 50 (110 Lbs)

### Features:

- Water-proof O-ring Gasket
- Vortex™ Automatic Pressure Release Valve
- Double-layered, Cushioned Fold-away Rubber Handle
- Padlockable Moulded-in Hasps
- Extremely Durable all weather HPX™ Resin Enclosure

Supplied complete with Multi-Stage Compact Charger unit

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## Pin Brazing Equipment Utility Case - The Ultimate Protective Solution Part Number - ECIM2400

Manufactured by the World Leaders in Protective Storage Systems and Supplied as Standard with every Complete Pin Brazing Unit and Grinder. The Electrobraze Pin Brazing Equipment Utility Case provides protection for your Pin Brazing Gun, Grinder and Associated Cable Accessories.



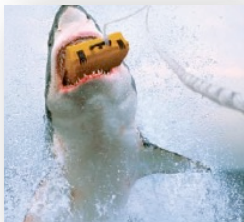
**Wildlife Problem?**

**...No Problem!**



**Parking Problem?**

**...No Problem!**



**Shark Attack?**

**...No Problem!**

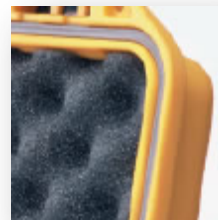


### Specifications:

- Internal Dimensions (mm) 457 x 330 x 170, (Ins) 18 x 13 x 7
- Weight (Kg)3.66 (Lbs) 8

### Features:

- Water-proof O-ring Gasket
- Vortex™ Automatic Pressure Release Valve
- Double-layered, Cushioned Fold-away Rubber Handle
- Padlockable Moulded-in Hasps
- Extremely Durable all weather HPX™ Resin Enclosure



## Pin Brazing Gun Equipment Case - The Ultimate Protective Solution Part Number - ECIM2100

Manufactured by the World Leaders in Protective Storage Systems and Supplied as Standard with every individual Pin Brazing Gun. The Electrobraze Pin Brazing Gun Case provides protection for your Pin Brazing Gun, Micro Grinder and Associated Accessories.



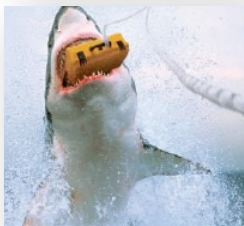
### Wildlife Problem?

**...No Problem!**



### Parking Problem?

**...No Problem!**



### Shark Attack?

**...No Problem!**

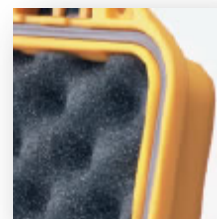


### Specifications:

- Internal Dimensions (mm) 330 x 234 x 152, (Ins) 13 x 9 1/4 x 6
- Weight (Kg) 2.15 (Lbs) 4.7

### Features:

- Water-proof O-ring Gasket
- Vortex™ Automatic Pressure Release Valve
- Double-layered, Cushioned Fold-away Rubber Handle
- Padlockable Moulded-in Hasps
- Extremely Durable all weather HPX™ Resin Enclosure



## Pin Brazing Battery Pack Compatible Micro-Grinder

Part No – SGM50

Ultra-small, Lightweight, Universal Die Grinder. Provides a Safer Surface Preparation for all Pin Brazing Attachments.



Due to increasing concern over the potential negative effects of excessive grinding during Pin Brazing Surface preparation, the unique SGM50 Pin Brazing Battery Pack compatible device utilises a Carbide Burr for speed of installation, but when compared to existing devices can dramatically reduce Substrate disruption whilst providing the ideal surface conditions for Pin Brazing.

### Specifications

<b>Output</b>	<b>40 W</b>
<b>Speed, no load</b>	<b>20 000 R.P.M</b>
<b>Cable with plug</b>	<b>3 M</b>
<b>Weight according to EPTA</b>	<b>0.25 kg</b>
<b>Chuck</b>	<b>-</b>
<b>Max Collet <math>\varnothing</math></b>	<b>3.2 mm</b>

### Features

- Keyless Chuck
- Detachable 2.5 Metre Cable
- Electrobraze Pin Brazing Battery Pack Compatible
- Lightweight
- Low Voltage

## Pin Brazing System - Elite 36v Mains Battery Charger

### Part No - BCE36V2A

The Elite series Electrobraze Pin Brazing Battery Pack charger is designed using Pro-Duty, transformer based technology. Based around a Toroidal design giving low profile compact size and maximum durability, this charger is fully automatic and self test start up is included each time the charger is turned on. Highly accurate - Mains '0' crossing - voltage measurement is incorporated in the design.



### Features

- Temperature compensation for extreme environments
- Switchable 110V / 240V input
- Pro-Duty rugged construction
- 4 stage charge cycle
- Proportional timing
- Overrun protection
- Short circuit protection
- Soft start current control
- 3 lamp LED indication

### Specifications

<b>Output</b>	<b>36V 2A</b>
<b>Bulk</b>	<b>44.4V</b>
<b>Float</b>	<b>41.4V</b>
<b>Connector</b>	<b>Neutrik Multi-pin</b>
<b>Weight (Kg)</b>	<b>3.5</b>
<b>Dimensions (L x W x H)</b>	<b>170 x 140 x 95 mm</b>



## Pin Brazing System – Vepac 12v In-Vehicle Battery Charger

Part No: BCV1236V

The Vepac series In-Vehicle Electrobraze Pin Brazing Battery Pack charger is designed using Pro-Duty, transformer based technology. Based around a Toroidal design giving low profile compact size and maximum durability, this charger is fully automatic and self test start up is included each time the charger is turned on. Highly accurate - Mains '0' crossing - voltage measurement is incorporated in the design.



### Features

- Reduced output current
- Output connectors
- Set for sealed lead acid
- Input connector
- Electronically controlled
- Input voltage 11.8 - 16V DC
- Output voltage 36V
- Output current 2A
- 3-stage charging - Constant current - Constant voltage - Float
- Proportional timing control
- LED status indication
- Reverse polarity protection
- Compact metal housing
- Short circuit protection
- Auto start up and shut down

### Specifications

<b>Input</b>	<b>12V DC</b>
<b>Output</b>	<b>36V 2A</b>
<b>Weight (Kg)</b>	<b>1.0</b>
<b>Dimensions (L x W x H)</b>	<b>165 x 90 x 30 mm</b>

## Pin Brazing System – Multi-Stage 36v Compact Mains Battery Charger

(Supplied as Standard with all Electrobraze Pin Brazing Battery packs)

**Part No - BCMSC36**

The Multi-Stage Compact Electrobraze Pin Brazing Battery Pack charger is fully automatic and self test start up is included each time the charger is turned on. Highly accurate - Mains '0' crossing - voltage measurement is incorporated in the design.



### Features

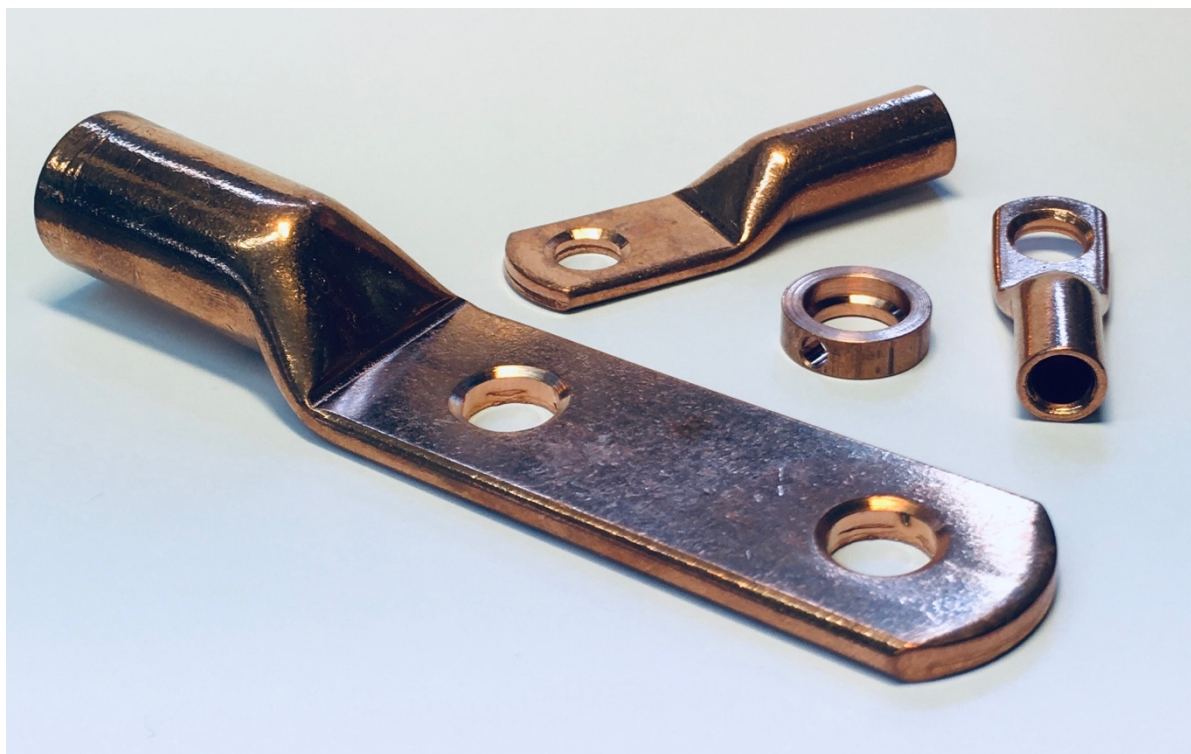
- Automatic 110V/240V AC Input
- 3-5 Hour Charge Time
- 3 stage charge cycle
- Short circuit protection
- Soft start current control
- 2 lamp Neon indication

### Specifications

<b>Output</b>	<b>36V 1.5A</b>
<b>Bulk</b>	<b>44.4V</b>
<b>Float</b>	<b>41.4V</b>
<b>Connector</b>	<b>Neutrik NL2FC</b>
<b>Weight (Kg)</b>	<b>0.5</b>
<b>Dimensions (L x W x H)</b>	<b>115 x 60 x 35 mm</b>

## Pin Brazing Direct Crimp and Integra-Bond Terminals

Electrobrazed DC and IB Series Direct Connection and Crimp Terminals are precision manufactured from C106 Copper to ensure optimum capillary gap for joint strength and integrity, whilst also allowing excess heat created during initiation of the Pin Brazing Arc to flow freely away from the Substrate material and reduce the risk of any unnecessary damage.



### Metric Sizes

Part No	Cable Size	Description	Pin type	Pack Qty	Kit Part Number (Pin, Terminal and Ferrule)
IBW2.5	2.5mm <sup>2</sup>	Integra-Bond	8mm	50	ZKITIB2.5
IBW4	4mm <sup>2</sup>	Integra-Bond	8mm	50	ZKITIB4
IBW6	6mm <sup>2</sup>	Integra-Bond	8mm	50	ZKITIB6
DCL10	10mm <sup>2</sup>	Crimp Terminal	8mm	50	
DCL16	16mm <sup>2</sup>	Crimp Terminal	8mm	50	
DCL25	25mm <sup>2</sup>	Crimp Terminal	8mm	50	
DCL35	35mm <sup>2</sup>	Crimp Terminal	8mm	50	
DCL50	50mm <sup>2</sup>	Crimp Terminal	8mm	50	
DCL75X2	75mm <sup>2</sup>	Crimp Terminal	8mm x 2	50	
DCL120X4	120mm <sup>2</sup>	Crimp Terminal	8mm x 4	50	

**AWG Sizes**

<b>Part No</b>	<b>Cable Size</b>	<b>Description</b>	<b>Pin type</b>	<b>Pack Qty</b>	<b>Kit Part Number (Pin, Terminal and Ferrule)</b>
IBWAWG14	AWG14	Integra-Bond	8mm	50	ZKITIB2.5AWG14
IBWAWG12	AWG12	Integra-Bond	8mm	50	ZKITIB4AWG12
IBWAWG10	AWG10	Integra-Bond	8mm	50	ZKITIB6AWG10
DCLAWG8	AWG8	Crimp Terminal	8mm	50	
DCLAWG6	AWG6	Crimp Terminal	8mm	50	
DCLAWG4	AWG4	Crimp Terminal	8mm	50	
DCLAWG2	AWG2	Crimp Terminal	8mm	50	
DCLAWG1/0	AWG1/0	Crimp Terminal	8mm	50	
DCLAWG2/0X2	AWG2/0	Crimp Terminal	8mm x 2	50	
DCLAWG4/0X4	AWG4/0	Crimp Terminal	8mm x 4	50	

## Silver Flow™ Cadmium Free Silver Brazing Pins

Electrobrazed Silver Flow™ Brazing Pins are precision manufactured to provide optimum in field performance ensuring joint strength, reliability and integrity. Completely Cadmium Free, we provide a much safer and more versatile range of silver alloy Brazing Pins than ever previously available.



Brazing Pins containing Silver Flow 620 Specialist Application Alloy for Pipeline Materials.

### Brazing Pin | Specialist Application | Fused

Part No	Size	Description	Alloy	Pack Qty	Ceramic
BPF8DSF620	8mm	8mm Direct Brazing Pin with Fuse Wire	SF620	100	CF0800
BPF95DSF620	9.5mm	9.5mm Direct Brazing Pin with Fuse Wire	SF620	100	CF95
BPFM6SF620	M6	M6 Threaded Brazing Pin with Fuse Wire	SF620	50	CF12
BPFM8SF620	M8	M8 Threaded Brazing Pin with Fuse Wire	SF620	50	CF12
BPFM10SF620	M10	M10 Threaded Brazing Pin with Fuse Wire	SF620	25	CF12
BPFM12SF620	M12	M12 Threaded Brazing Pin with Fuse Wire	SF620	20	CF12

### Brazing Pin | Specialist Application | Fused | Stainless Steel Grade 316

Part No	Size	Description	Alloy	Pack Qty	Ceramic
BPFM6SF620316	M6	M6 Threaded Brazing Pin St/St with Fuse Wire	SF620	50	CF12
BPFM8SF620316	M8	M8 Threaded Brazing Pin St/St with Fuse Wire	SF620	50	CF12
BPFM10SF620316	M10	M10 Threaded Brazing Pin St/St with Fuse Wire	SF620	25	CF12
BPFM12SF620316	M12	M12 Threaded Brazing Pin St/St with Fuse Wire	SF620	20	CF12

Note: All Threaded Brazing Pins supplied with 316 Stainless Steel Nyloc Nuts and Washers as standard. Non-Ferrous fasteners are available upon request.

## Popular Spare Parts and Accessories

Part Number	Commodity Code	Description
<b>Accessories</b>		
GFF7000	85159090	Gun Folding Foregrip and Mount
LED7000	85159090	Gun LED Flashlight and Mount
DCS7000	85159090	Gun Bungee Sling and Mount
ECIM2100CI	85159090	Gun Case with Custom Foam Inserts
CUSTINSIM2100	85159090	Custom Inserts for iM2100
ECIM2100	85159090	IM2100 (Gun) Case - No Inserts
ECIM2400	85159090	Utility Case With Foam Inserts
CTTH0650T	85159090	Hexagon Crimp Tool 6-50
<b>Spare Parts</b>		
CS7000	85159090	Contact Set
CB312RT210	85159090	Carbide Burr 3 x 12 Cut 9
CT12	85159090	Contact Tip (5 pack)
ORFCH7000	85159090	O-Ring / Ferrule Holder Retainer (5 pack)
TK7000	85159090	ZE7000 Tool Kit
EJR7000	85159090	Ejector Rod Assembly
BS1213	85159090	XE13 Battery (x3) EB3613
BS1208	85159090	8Amp Battery (X3) for EB3608
PCH7000	85159090	Pin Holder – Add size required – 8mm, M8, M10 or M12
FCH7000	85159090	Ferrule Holder – Add size required 8mm or CF12
HSI7000	85159090	Heat Shield Insulator for Brazing Gun
RSHFB7000	85159090	Return Spring Housing Front Bush (Ferrule Holder Socket)
EDNEORP	85159090	Replacement EDNEO Earth Device (Magnet Only)
EDDINSERP	85159090	Replacement DINSE (Bladed) Earth Device (Magnet only)
RS127000	85159090	Return Spring 12mm ZE 7000
STB127000	85159090	Spring Tension Bush 12mm ZE 7000

## Contact

Electrobrazo Limited (UK)  
Pin Brazing Specialists

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- Email - [enquiries@electrobrazo.com](mailto:enquiries@electrobrazo.com)
- Email - [accounts@electrobrazo.com](mailto:accounts@electrobrazo.com)
- Web - [www.electrobrazo.com](http://www.electrobrazo.com)

### Associated Domains

- [www.pin-brazing.co.uk](http://www.pin-brazing.co.uk)
- [www.pinbrazing.us](http://www.pinbrazing.us)
- [www.pinbrazingcompany.com](http://www.pinbrazingcompany.com)

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PINBRAZING SPECIALISTS

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