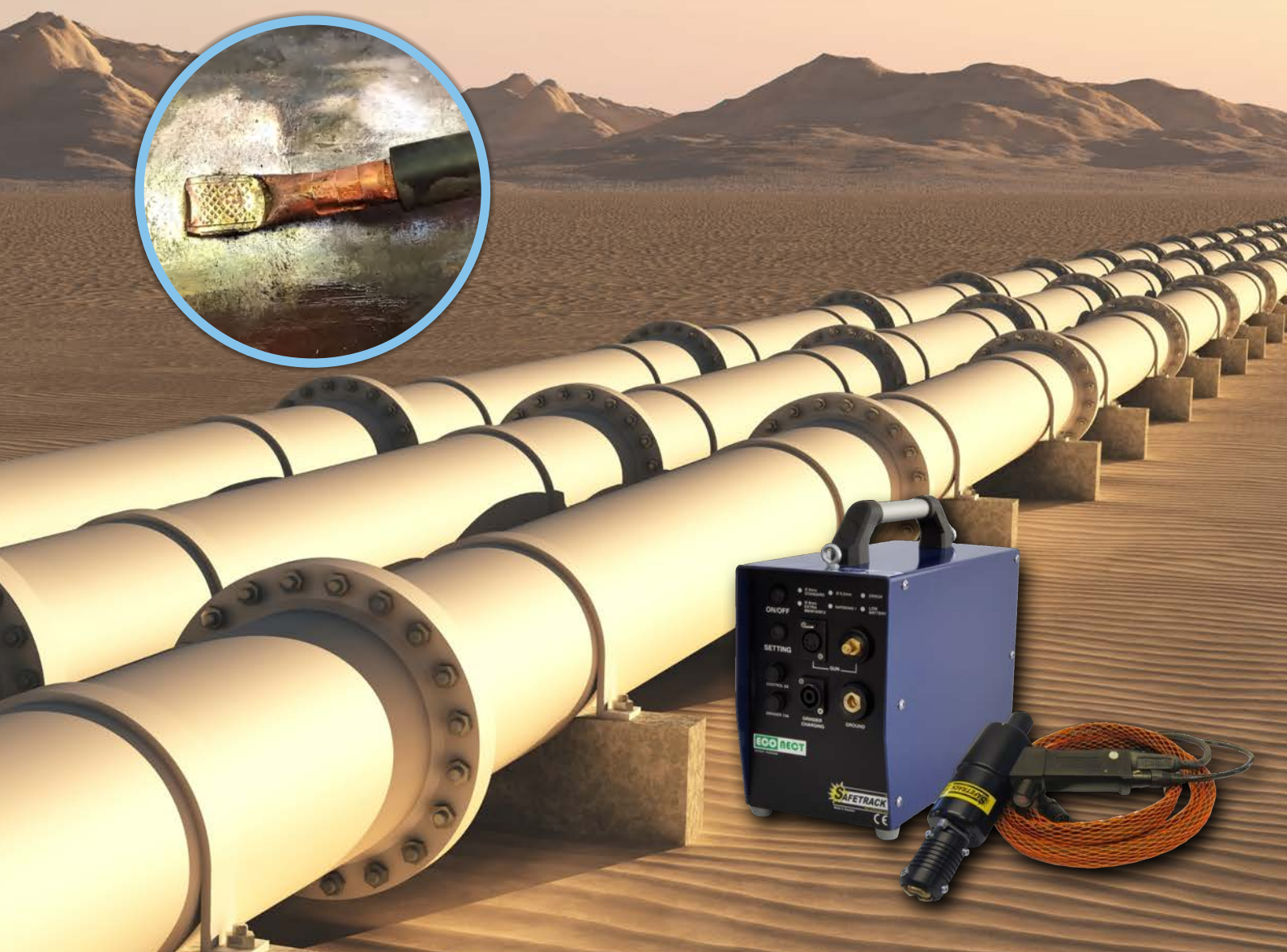


SafeBond®

Unique Cable Bonding System for
Cathodic Protection and Grounding



Safetrack® SafeBond® system is a unique electrical cable bonding system with no metallurgical impact on the connected surface material and has an extremely low transition resistance, thanks to the silver brazing technology.

Connect cables anywhere

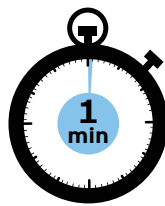
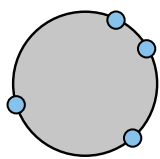
Safetrack® patented SafeBond® system is a unique, low temperature indirect arc brazing method used for attaching electrical connectors to steel structures within Cathodic Protection systems such as pipelines, vessels, reinforcement bars, wind power, grounding, etc, without the need for welding. No need for different carbon moulds for different wires. SafeBond® has no metallurgical impact on the connected surface material and has an extremely low transition resistance, thanks to the silver brazing technology (*silver has the lowest transition resistance of all metals*).

Bond in any direction, no limitations

Corrosion free connection

Silver (Ag) for best electrical conductivity

No metallurgical impact on the pipe



The advantage

SafeBond® can safely be attached anywhere on the surface material with no metallurgical impact. The cable lug is solid and the electric arc is between the top of the lug and the brazing electrode.

Efficient process

Easy to learn and easy to master which makes this system time efficient and therefore also very cost efficient. The same type of consumables are used regardless the connection.

Safe for the user

No exothermic reaction and no risk for steam explosions. Our SafeBond® system is safe for the operator and safe for the material. You can apply cables in any direction with the same material.

Ergo & Eco friendly

Our lightweight and easy to carry Econect unit is not only ergonomic and economical, but also a part of our project SAFETRACK ECO PRODUCT which is reflected in our continuous work for a better environment.



One Econect Li-Ion battery replace up to 15 lead batteries.

Reliable System

- Millions of SafeBond® made
- Lowest possible transition resistance
 - Only 5 micro ohms/brazed joint
- Constant Energy Control System (patent)
- Stronger connection than the cable itself
- Automated brazing gun (patent)
 - No adjustment needed
- No special training needed

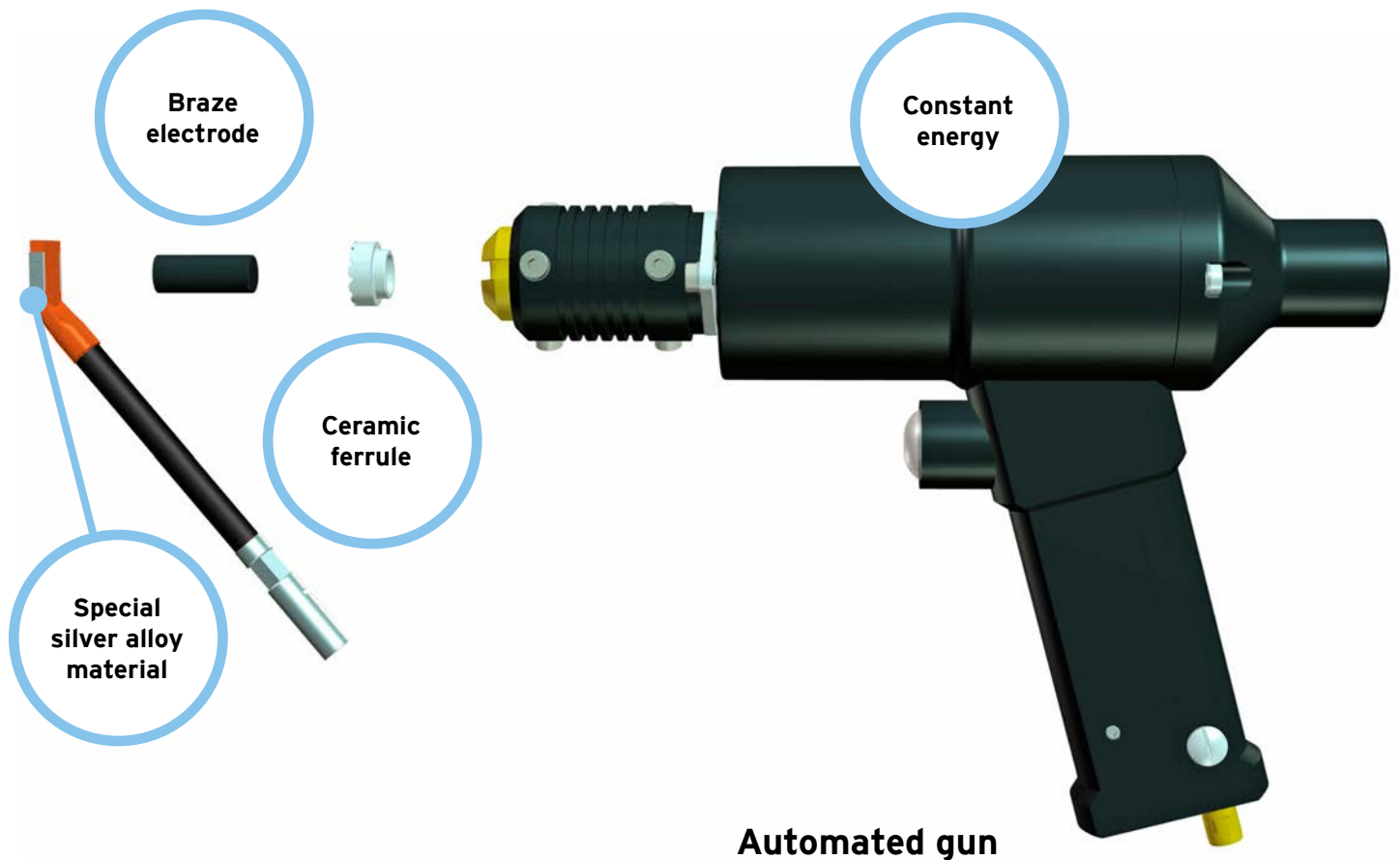
Safe for the material

- No metallurgical impact
- Low temperature – Melting point of the silver alloy 650°C/1200°F
- Safe for the internal coating
- Suitable for use on pipe lay barge
- No welding = No melting of the pipe
- No mixing of pipe material and copper from the cables

The process


Grind the surface ► Attach the grounding device ► Prepare the gun with electrode and ferrule ► Pull the trigger and the equipment will distribute an exact amount of energy (patent) through the braze electrode. The applied flux cleans the surface and the special silver alloy melts onto the connected material and surface.

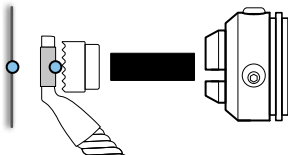
In 5 seconds, you have efficiently created an extremely strong and reliable silver connection.

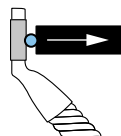


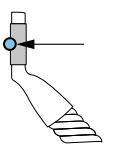
All Safetrack® SafeBond® units use our patented automated brazing gun. It ensures correct lift level which is essential for achieving optimal brazing result and connection. Our SafeBond® brazing gun is lightweight, easy to use and requires little to zero maintenance.

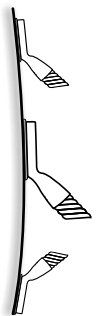
Step by step

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1. Clean the brazing & grounding area with a grinding machine (special grinding pin required), and attach the ground device.
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2. Apply flux to the brazing area & top side of the lug. Point the gun & SafeBond® material to the prepared brazing area.
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3. Pull the trigger. The electrode lifts and creates an arc. The applied special flux cleans & prepares the surface for bonding.
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4. An exact amount of energy (patent) heats up the cable lug which melts the silver alloy and completes the bonding. Hold for 5 sec before removing gun.
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5. You have now connected your cable with an extremely strong and reliable silver connection. Just eject the braze electrode & ceramic ferrule and you are ready to go again.



Safetrack Baavhammar AB
Möllebergavägen 339-24
245 93 Staffanstorp, Sweden

Tel: +46 (0)40 44 53 00
email: sales@safetrack.se
web: www.safetrack.se

SafeBond® equipment



ECONECT®

SafeBond® brazing unit

- 30 connections per charge, 1h recharge
- Nano Li-Ion battery, long life and lead free
- Digitized – same perfect result everytime (patent)
- Automatic Brazing Gun SB15 (patent)
- Lightweight: 9,8 kg (21,6 lb)
- Can be equipped with a carrying harness (93690)
- Part no. 943670 (add charger 8048)



S300

SafeBond® brazing unit

- Requires welding inverter, no batteries.
- Unlimited capacity
- Constant energy
- Automatic Brazing Gun SB15 (patent)
- Weight: 6,5kg
- Part no. 93800 (Add welding inverter RW674010 & grinder 593070)

Consumables



There are millions of SafeBond® connections worldwide.

- Union Pacific
- LB Foster
- Nortrak
- Meridian Rail
- etc.

For more information:
www.safetrack.se

Accessories



Grounding Magnet

Powerful, Switchable
Complete with cable

- Part no. 80730



Grounding Grip

Non-magnetic
No need to grind

- Part no. 8071



Grinding Pin

Special Carbide burr
for quick cleaning

- Part no. 8014



Insulation Bag (Econnect)

Increased capacity in
even colder weather

- Part no. 937005



Carrying Harness (Econnect)

Offload your arms
Complete with holster

- Part no. 93690



Quality – Tested & Approved

Safetrack material is thoroughly tested by third party, on site and in our own laboratory for corrosion resistance, fatigue tests etc.

Safetrack Baavhammar AB

ISO 9001 certified
ISO 14001 certified