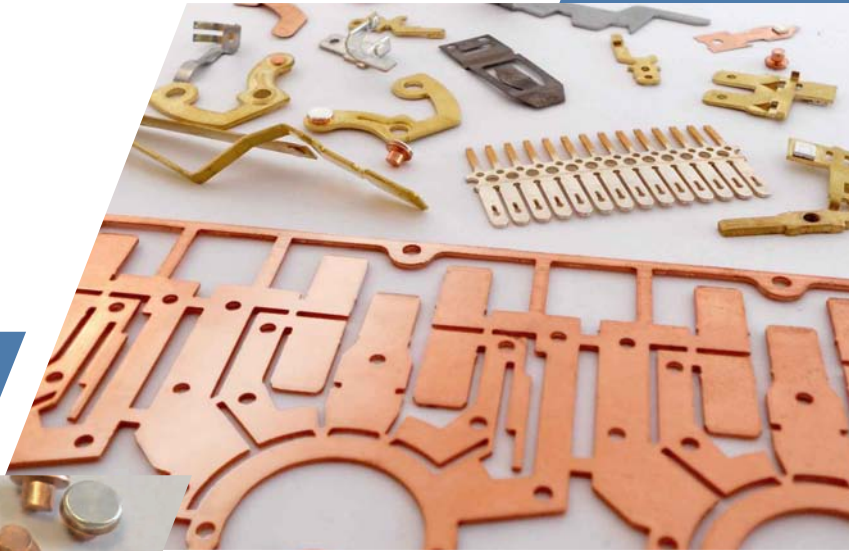


SERVICES FOR THE CUSTOMER

- Product and process co-design
- Cutting and forming dies construction
- Metal choice supporting

TYPE OF PRODUCTS

Cut and bent small parts, welded and riveted parts according to customer specifications intended for household appliances, automotive industry, electrical and electronic applications.



MACHINING

We are able to provide a range of metal parts from metal strips: cut, riveted, threaded, electric welded, drawn parts. Any type of product can be subjected to processes of tumbling, cleaning and oiling according to customer needs.



GALVANIC TREATMENTS

Through our suppliers we can provide galvanic treatments such as tin plating, silver, gold, nickel plating, copper plating (substrate), white galvanizing, yellow galvanizing, Geomet, chromium plating. The steel strip parts may be submitted, upon request, to a treatment of hardening and annealing in our internal line in a controlled atmosphere.



MATERIALS

STRIPS: (copper, iron, brass and bronze)
- thickness from 0.1 mm to 2 mm
- width from 6 mm to 120 mm or 360 mm

WIRES: (copper, steel, iron, silver)
- from 0.8 mm to 2.3 mm of diameter

MICRO PROFILE: Ag - Ag/Ni - Ag/SnO₂

COPPER ALLOYS:
Electrolytic (Cu-ETP)
Brass (CuZn33 or CuZn37)
Bronze (CuSn6)
Copper-Beryllium (CuBe - Berylco[®])
Copper-Magnesium (CuMg - Stol78[®])
Copper-Tin (CuSn - Wieland K72[®])
Copper- Nickel (CuNi2Si - Siclanic)
Copper- Nickel (CuNiMn - Costantan)

STEEL ALLOYS:
AISI 201
AISI 301
AISI 304
AISI 430

SILVER ALLOYS:
Ag 999
AgNi 90/10
AgNi 80/20
AgSnO₂
AgCu 97/3



MACHINING



Riveting

Contact for thermostat stamped and punched with bimetal rivets Cu/Ag-CdO of our production.



Forming

Brass contact for refrigerator blanked and formed. The cutted slot is chamfered, joined by clinching and welded with a silver wire.



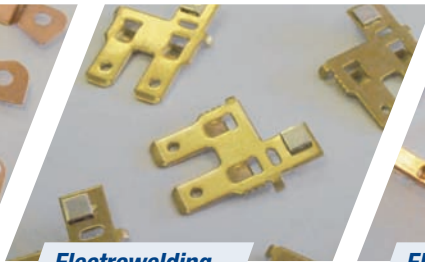
Threading

Contact with threaded hole in CuZn15 alloy.



Electrowelding

Sheared and bended contacts for thermostat by Stol alloy with Ag wire electro-welded.



Electrowelding

Brass contact for thermostat with three-material micro-profile (Ag/Ag-Ni/Ni-Cu) electro-welded.



Electrowelding

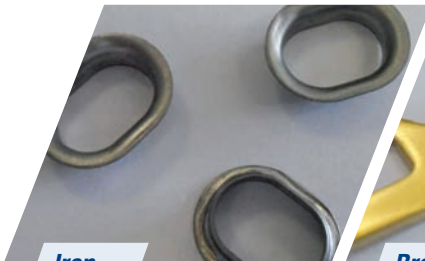
Bronze contact for industrial switch produced through continuous welding and two silver wires.



Electrowelding

Stainless steel slot spring and electrical contact in Cu/Be (with three-component electro-welded micro-profile) for use in thermostats.

MATERIALS



Iron

Deep drawn fairleads for headlights.
Application: automotive



Brass

Electrical contact blanked and bended with 180° folding.
Application: householding appliances



Stainless steel

Blanked, bended and shaped contact for car remote control.
Application: automotive



Cu/Be alloy

Electrical contact sheared and hardened with electro-welded silver drop.
Application: thermostats, householding appliances



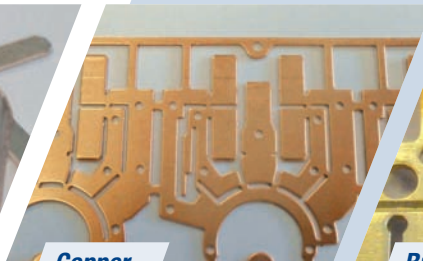
Stainless steel

Cover and eject key for Hard-Disc.
Application: IT sector



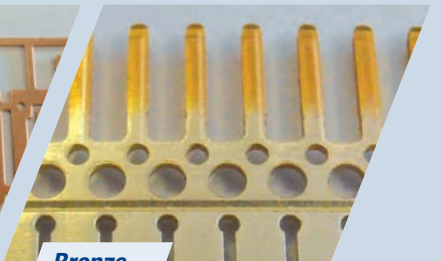
Tinned copper

Pins for insert-molding.
Application: automotive



Copper

Electrical circuit for car power switch prepared for assembly by clinching.
Application: automotive



Bronze

Contacts to be cut prior to be insert-molded, pins are made of gilded bronze and silver plated bronze.
Application: sensors for automotive