# Connecting Elements

GOL

Global SM

Your partner for cold forging

# OUR HISTORY

## Industrias GOL S.A.

**1971**

Foundation of GOL S.A. in Soraluze (Basque Country, Spain)

**2001**

New plant extension

**2006**

Becomes part of ALFA Group

**2009**

New plant (Rumagol) in Brasov (Romania)

**2011**

Takes over of the company MAFISA in Berriz (Spain)

**2015**

GOL becomes part of Global Seoul Metal

# Global Seoul Metal Co., Ltd.

**Together we move towards the future. A global company for our global customers.**

**1981**

Foundation of Seoul Metal Co., Ltd. in Seoul, Korea

**1993**

HQ moves to Incheon plant

**1999**

New plant in Dongguan (China)

**2008**

New plant in Vietnam

**2009**

Enters in KOSDAQ (Korean Stock Exchange)

**2012**

New plant in Chungju (Korea)

**2016**

Headquarters move to Ganghwa plant (Korea)

# OUR FIGURES

## Industrias GOL S.A.

**142**
EMPLOYEES

**3**
PRODUCTION PLANTS
Soraluze (Spain)
Berriz (Spain)
Brasov (Romania)

**21,5 M€**
TURNOVER 2021

**95%**
AUTOMOTIVE SECTOR



**QUALITY ASSURANCE**
IATF 16949:2016
ISO 9001:2015
ISO 14001:2015

**100%**
OF PARTS SORTED BY CAMERA CONTROL

- Dimensions
- Cracks
- Damage to thread (360°)
- Heat treatment presence (Eddy current)

# Global Seoul Metal Co., Ltd.

**950**
EMPLOYEES

**12**
PRODUCTION UNITS

- ASIA:
  - 2 / Korea
  - 4 / China
  - 1 / Malaysia
  - 1 / Vietnam
  - 1 / Philippines
- EUROPE:
  - 2 / Spain
  - 1 / Romania
  - 1 / Hungary (Warehouse)
- AMERICA:
  - 1 / Mexico (Warehouse)

**128 M€**
TURNOVER 2021
**52%** ELECTRONICS
**48%** AUTOMOTIVE

**QUALITY ASSURANCE**
IATF 16949:2016
ISO 9001:2015
ISO 14001:2015

**Next step: new plant in a NAFTA country.
Growing continuously!**

# OUR CAPABILITIES

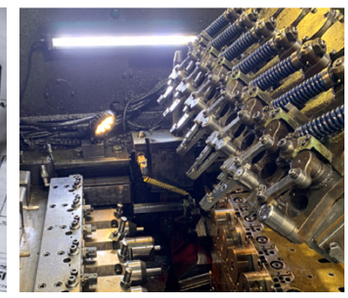
## OUR TECHNOLOGY: COLD FORGING

### Raw Material

- ✔ Metal wire in steel, copper, aluminium.

### Cold Forging

- ✔ Up to 6 stations, +6.000 parts/hour, ø30 mm wire, 150 mm length below head.



## OUR ADDED VALUE – EXPERTISE

- ✔ We are experts in technical parts for critical applications with **100 % unitary camera control**.
- ✔ We provide **co-engineering** to optimize the part design for cold forging technology. Our task is to design the **most feasible and cheapest design** while guaranteeing the functionality of the part.
- ✔ **Technological manufacturing transfer**: changing from **machining** and/or **sintering** processes to cold forging technology we are bringing our customers a significant price improvement.
- ✔ Reducing noise pollution via **sub-assemblies** with polyamid application.

## LICENSES: TECHNOLOGICAL PARTNERSHIP

| EJOT (Germany) | Reminc & Conti (USA & Switzerland) | MAThread (USA) | ACUMENT (USA) | OSG (Japan) |
|---|---|---|---|---|
| PT® | TAPTITE® | MAThread® | TORX PLUS® | Microstix® |
| DELTA PT® | TAPTITE 2000® | MATpoint® | TORX® | |
| DG PT® | PLASTITE® | M.A.T.® | STRUX® | |
| DURO PT® | FASTITE 2000® | | | |
| ALtracs® | POWERLOK® | | | |
| ALtracs® Plus | REMFORM® | | | |
| FDS® | | | | |

# VALUE CHAIN

## Raw Material

- ✔ Drawn wire from:
  - · Carbon steel
  - · Aluminium
  - · Copper
  - · Stainless steel

## Heat Treatment *

- ✔ Annealing
- ✔ Quenching & tempering
- ✔ Inductive hardening
- ✔ Case hardening

## Cold Forging

- ✔ Up to 6 stations machines
- ✔ Prototyping*

## Surface Treatment *

- ✔ Zinc plating
- ✔ Zinc Nickel plating
- ✔ Lamellar zink flake coating
- ✔ Special coatings: teflon, browning, galvanic, tinned, others

## Cleaning

- ✔ Washing
- ✔ Passivating
- ✔ Drying

## Secondary Operations *

- ✔ Vibrating
- ✔ Shotblasting
- ✔ Patch
- ✔ Polyamide application

## Threading

- ✔ External and internal threading
- ✔ Screw pointing
- ✔ Slotting
- ✔ Knurling

## Assembly Operation *

- ✔ Bending
- ✔ Riveting
- ✔ Mechanical pressing
- ✔ Manual-automatic assembly

## Machining **

- ✔ Fine Turning-Reprise
- ✔ Grinding Centerless
- ✔ Drilling
- ✔ Milling

## Unitary Control/Packaging

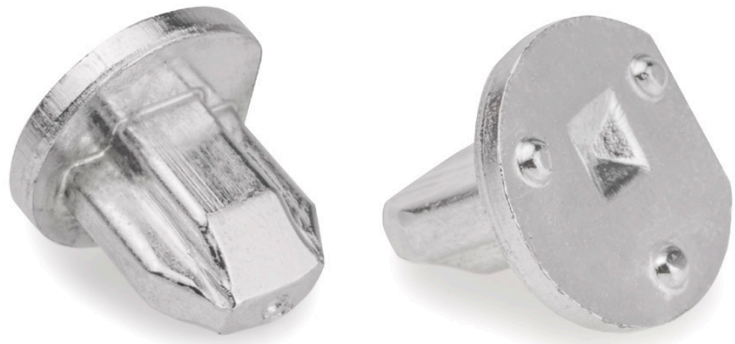
- ✔ 100 % of our parts are sorted by camera control
  - · Dimensions
  - · Cracks
  - · Damage to thread (360°)
  - · Heat treatment presence (Eddy current)
- ✔ 100 % visual control
- ✔ Technical cleaning
- ✔ Odette system (EDI)
- ✔ KLT boxes

*** Outsourced process to approved suppliers.**
**** Outsourced process to approved suppliers or internally in our plant in Romania.**

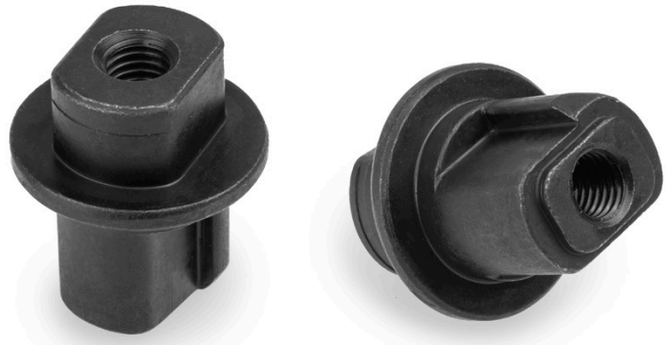
**Nearly half of our turnover is for seat application components. You can rely on our engineering support!**







**Locator Pin**



**Seat Arbor Special Nut**

**Spacers**

Overmoulded parts

Clinching Nut

Parts with flat faces

Eccentric parts

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&
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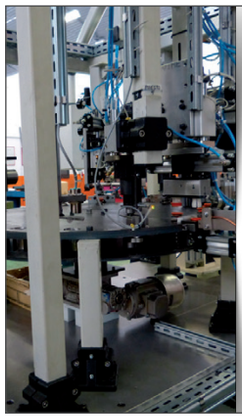

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**Fijo:** 943 767 150
javier.garmendia@sonamekanizatuak.eus

**Via airbags and seatbelt applications, our parts save lives.**

**Pulley Rivet**

**Pin**

**Torsion Bar**

**Paint Cleaning Thread**

**Bushing**

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GOL

Global SM

* Previously by turning, now 100 % cold forged.

**We help you soften the bumps on your road.**

**Piston Nut***

**Stud Tenon**

**Bolt**

TECNO-TALDE

INNOVACIÓN Y CALIDAD

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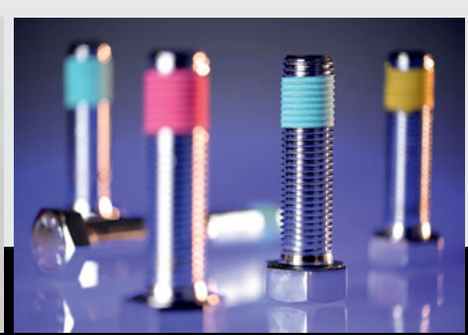
Mecanizado de series en CNC



Fijación y sellado de roscas

**Knurled Washer***

**Our parts are bringing comfort fighting against vibration and noise pollution.**

*** Previously cold forged + machined, now 100 % cold forged.**

**Screw + Spacer**

**Inner Sleeve**

**Desde 1953 a la vanguardia del trefilado de alambre.**

- Trefilado de alambre para estampación en frío (desde 1,5mm hasta 16,00 mm)
- Tratamiento superficial de aceros: Decapado, fosfatado, polímero
- Forma de suministro: rollos, cestas, carretes y barras

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20570 BERGARA (Gipuzkoa) - Spain
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Fax: 943761013
Email: fegar@fegar.com
**www.fegar.com**

AENOR ER Empresa Registrada ISO 9001 ER-0208/1998

## Complete elimination of Internal Combustion Engine vehicles by 2035: GOL is already producing parts for the future.

GOL

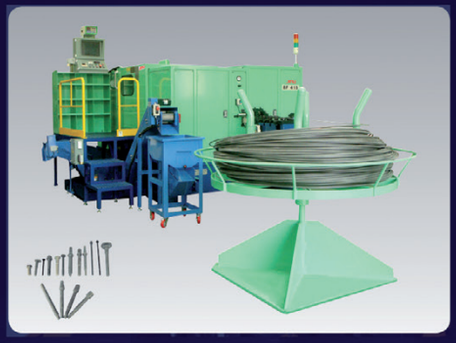
Global SM

Electric Components

Rivet Terminal

JINU

PARTS FORMER



BOLT FORMER

NUT FORMER

JINU FT CO., LTD

8 Hogupo-Ro, Namdong-Gu, Incheon, Korea

• TEL : +82-32-822-8490 (Rep) • FAX : +82-32-822-8493

• Homepage : http://jinu.co.kr • E-mail : jinu@jinu.co.kr

CE

IHC ISO 9001 ISO 14001

JAS-ANZ

**Any special connecting element is interesting for us. The more complex the part, the better for us!**

**Plastic Injection, Door Hinges**

**Bumper Towing Eye**

**Unlosable Screw for Manifold**

**Parts With Gears**


## Más de 50 años de experiencia y fiabilidad

50 años

GALVANIZADOS ARRATE, S.A. es una empresa de una amplia experiencia y avalada por la fidelidad de sus clientes.

Fundada en 1970, durante cinco décadas ha mantenido una evolución constante conforme a la demanda del mercado y acogiéndose a las normativas en vigor más exigentes.

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AENOR CALIDAD EN AUTOMOCIÓN IATF 16949 RA02-0027/2005 IATF: 0371553

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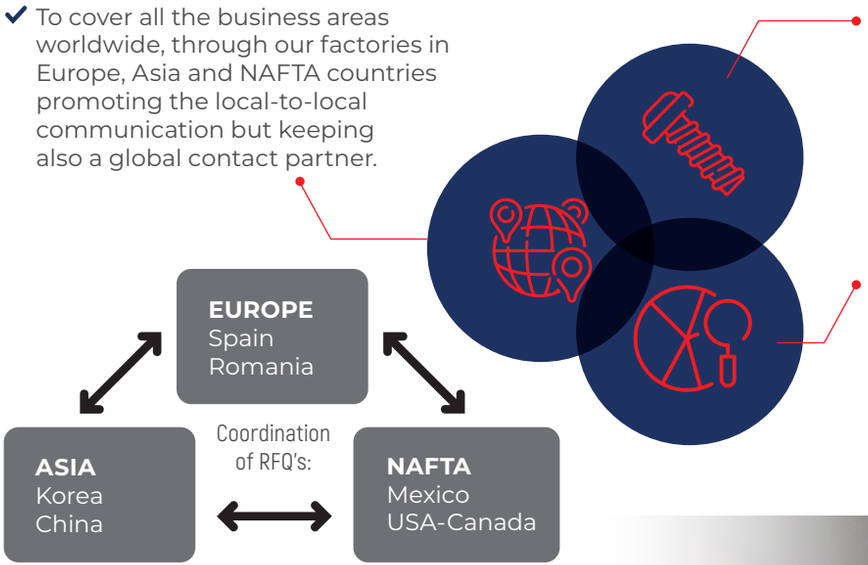
Tel.: 943 75 24 50 - 943 75 16 95 | Fax: 943 75 24 54 - 943 75 16 95
**www.galvanizadosarrate.com**

# OUR GOALS

## Global Market = Global World

- ✔ To cover all the business areas worldwide, through our factories in Europe, Asia and NAFTA countries promoting the local-to-local communication but keeping also a global contact partner.




## Strong Engineering Support

- ✔ Co-engineering: Implement our know-how to our customers' projects, helping them to improve the design and the part cost.
- ✔ R&D: Use our simulation tools to improve our process for the most complicated parts.

## Quality and 100 % Unitary Sorting

- ✔ To be a leading company in the increasingly more demanding customers' requirements regarding total quality, cleanliness and absence of shocks.

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