



GANDINI[®]
FASTENERS



Gandini Fasteners

leader in Italy and in Europe
in the distribution of
**fastening elements,
bolts and screws as well
as metallic and plastic
technical items.**

Nowadays at the fourth
generation and thanks to
the continuous search in
over 100 years for first quality
products and suppliers
Gandini is a brand synonym
of **reliability, experience
and credibility.**



Four generations
working on the market
since over 100 years

1914: the factory in Milan - Via Pisacane



The Gandini Group has its origin as “Fabbrica Nazionale Pistoni Milano” founded by Pietro Gandini and specialized in the **production of light alloy pistons, gudgeon pins**

1914 and **piston rings**. During the First World War the Company became one of the major suppliers of spare parts to the Army and the Navy and immediately after the war a vital supplier to the burgeoning Italian Automotive Industry.

Then came the second generation years, the start of the cooperation with Seeger. Almost completely destroyed during the Second World War the factory was

1945 re-established in Milan and in Valbrona. Under the management of Pietro’s son, Ugo Gandini, who boosted the production, updated the sales organization and introduced the sole supplying in Italy of the **original Seeger retaining rings in special steel**, from the normal standard types for bore and shaft to the wide range of special patented ones.

Piergianni Gandini, son of Ugo, becomes the third generation to lead the Company.

1987

He steadies **the expansion of the two Divisions: the**

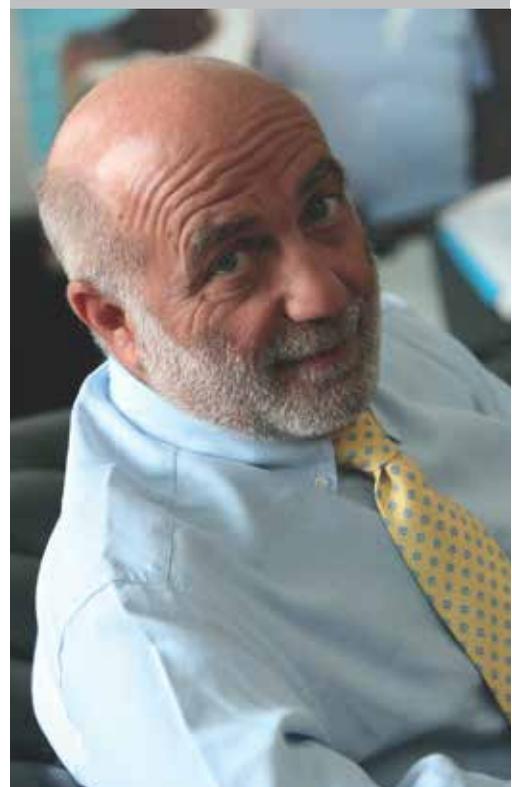
2010

industrial one in Canzo with the building of the third

pistons production plant as well as the establishment of a hi tech robotized foundry and the **commercial one in Sesto San Giovanni since the 2001 with the trading distribution of the fastening elements.**

The Gandini Fasteners activity extends here and the sales grow with the Seeger rings and **the best European brands of dowel and tension pins, disc springs, different locking elements and plastic parts.**

Further to the globalization of the markets and the new regulations imposing the end of the sole agency relations the Gandini Fasteners business widens out to new suppliers and to the foreign Countries: **the search, the purchasing and the sale of the products all over the world** are objects of the new trend of Gandini, one of the first Companies in our field which understood in the 90s years the web potential and showed the products online.





The three production plants of Gandini Industria in Canzo (CO)

Stefano and Alessandro new entry, sons of Piergianni Gandini. In these **2003** years the Company consolidates **2016** even more its presence on the market, **enlarges the already wide catalogue products range with new**



The Sesto San Giovanni (MI) buildings.

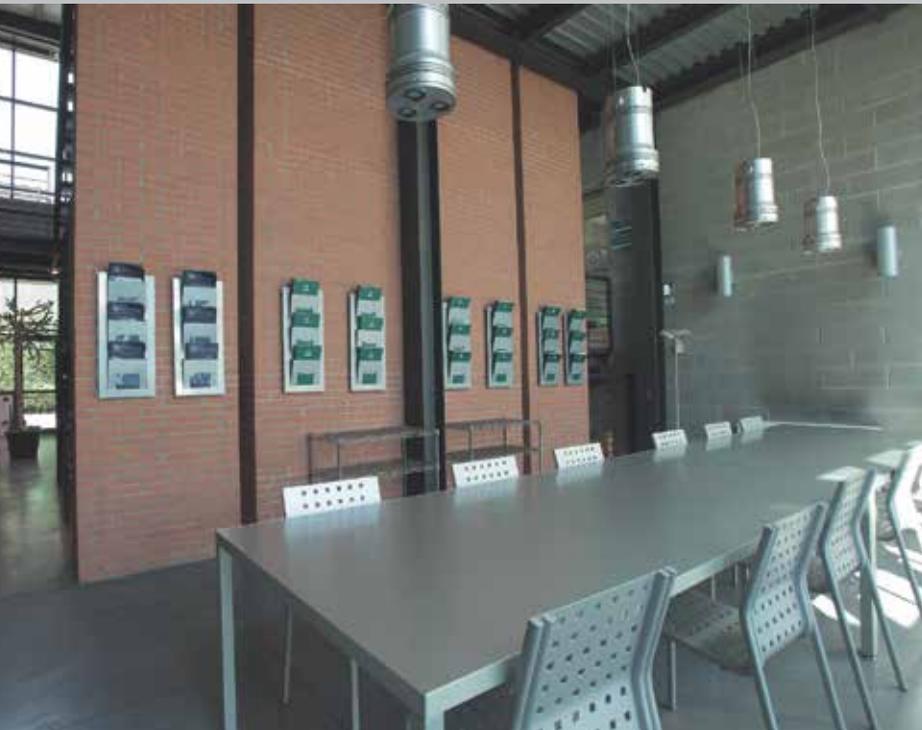
ones such as the lock nuts, stud bolts, cylindrical dowel pins, keys and with further standard as well as special parts. New orders and new customers for **the machined customized parts** to be produced by Gandini Industria. The Technical Department has been implemented so to better follow the consulting to the customers.



The

Sesto San Giovanni seat

A modern building structure on an area of 12.500 square meters where have seat the premises, conference rooms, warehouse and a very technological EDP centre involved with the development of the domestic Enterprise Resource Planning.







Seeger rings
Retaining Rings

Rings for axial and radial mounting, selflocking; rings for axial gap compensation, rings with constant radial wall, wire rings. Support and shim washers. Pliers and assembly devices.

Spiral retaining rings
Single or double turn retaining rings, constant section rings, wave rings. Hoopster retaining rings. Laminar rings. Metric and imperial sizes.

Wave springs
Single wave springs. Round wire springs. Crest-to-Crest springs. Linear springs.

Christian Bauer Disc Springs
DIN 2093 carbon steel. Stainless steel disc springs. Disc springs for bearings preload slotted and plain.

Standard Disc Springs
DIN 2093 carbon steel. Stainless steel disc springs. Disc springs for bearings preload plain.



Keys
Keys with gib-head. Woodroff. Keys steel.

Ground flat,
square and round steels.

Lock nuts, washers, adapter sleeves, adjusting rings, hook wrenches
Locking nuts, safety washers and brackets, precision nuts, self-locking nuts, tensile and pressure adapter sleeves.

Washers

Knurled, notched, elastic, plain, safety washers.

Spring pins and spiral pins

Heavy and duty series.

Cylindrical and taper dowel pins, grooved pins

Bushings

Stud bolts

Compression limiters



Screws

Hexagonal, cheese, oval headed screws.
Grub screws,
knob headed screws.

Miniplast® plastic parts

Technical items: washers, finishing parts, spacers, cable and pipe fitting.

Miniplast® plastic parts

Cups and plugs, high temperature component and for electrical sector.

Nuts.

Hexagonal, selflocking and flanged nuts.

Screws, nuts, spacers.

Handles, clamps and handwheels, crack handles and handwheels.

Over 200.000 items, more than 50 product groups on the catalogue, a range of items constantly growing.

The power

1. The products range

A rigorous selection of products and suppliers all over the world as well as a complete and wide range of parts available in each product group allow Gandini Fasteners to be the preferential choice for big first equipment Industries OEM but also for dealers and customers in Italy and abroad.





The power

2. The prompt deliveries

A warehouse, the only one in Europe with over 500 millions of pieces at stock.



Products every time available, **a wide range of parts ready for the customer**, his order planning and for delivery in conformity with his needs.

An external spacious area equipped for big shipments allowing an easy loading and downloading of trucks every day reaching the Sesto San Giovanni seat for the complete satisfaction of the most important end users OEM needs.



The picking area working on various levels guarantees **flexibility in the release of the little orders**; the high computerization as well as the specialized and duly instructed co-operators allow a quick procedure execution; the FIFO managing of the stock and the batches digital survey optimize the service to the customer.



1000SCA
Kg

1000SCA
Kg

1000SCA
Kg





The movement and the **delivery of the goods** ready at stock will be also realized through **KANBAN** further to a computerization process bound with all the company jobs.



The power

3. The service to the customer

Organization, consolidated procedures, computerization, news and technical support.



www.gandini.it

The trading structure allows a very quick release of the orders and moreover a support to the customer: the product catalogues on paper complete with price list, constantly updated, will be systematically sent to the clients.



All the catalogue items are visible on the Company web site under various research parameters.

Technical sheets with photos and drawings referred to each catalogue item are easy downloadable.



Possible execution of **customized parts**: stud bolts, cylindrical and taper dowel pins, screws, nuts, bushings, washers and so on. **A lot of mechanical components realized for the many industrial fields** will be produced by the most high tech CNC machineries.

The power

4.The machining



The worked materials include a big range of **carbon steel, stainless steel, super alloys and non ferrous alloys such as Inconel, Nimonic, Titanium, Aluminium, Brass, Copper** and so on with normal or special finishing treatments.

The power

5. The technical consulting and the quality

A careful search and choice of first quality products suppliers, checks and technical controls through sophisticated equipment.



Adequate check plans regularly scheduled, even especially structured in conformity with the customer specific needs and **performed with the latest technological 2D and 3D machineries.**

A Technical Department managed by skilled mechanical Engineers pledges a valid support to the customers referred to standardized parts and their relating standards, with technical advice also on new and special applications as well as referred to the realization of particular customized machining works, materials and treatments.



The continuous connection with the producers Technical Divisions guarantees an upgrading just in time on new technologies and products.



The power
6. Gandini is all of us





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all the catalogues on line

www.gandini.it



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SEEGER RINGS RETAINING RINGS

Axial-mounting for shafts and holes:

- A/J (DIN 471-472)
- NA/NJ, AV/JV
- AK/JK (DIN 983-984)
- AS/JS
- NAS

Axial-mounting self- locking:

- G, D, KS, ZA/ZJ

Radial mounting:

- H
- RA (DIN 6799)
- NRA
- APS
- ST



Compensating axial gaps:

- SL
- AL/JL

Constant radial:

- SW/SB
- SP (DIN 5417)

Wire rings:

- RW/RB (DIN 7993)
- SKA/SKC (DIN 73130)
- SRA/SRC (DIN 73123)

SHIM WASHERS

Support and shim washers:

- SS, PS (DIN 988)

Assortment boxes

- A/J (DIN 471-472)
- RA (DIN 6799)

PLIERS AND TOOLS

SMALLEY SPIRAL RETAINING RINGS

Metric sizes Carbon and Stainless Steel 302 and 316:

- VSM/VHM
- ES/EH
- DNS/DNH

Inch sizes Carbon and Stainless Steel 302 and 316:

- VS/VH, WS/WH,
WST/WHT, WSM/WHM

Constant section rings:

- FS/FH (DIN 471-472), FSE/FHE,
XDS/XDH, XAS/XAH

Hoopster retaining rings

- metric sizes*
HSM/HHM/HHMU

Hoopster retaining rings

- inch sizes*
- HS/HH/HHU

Wave retaining rings

- WSW/WHW



Laminar seal rings:

- Single-turn or double-turn
rings

SMALLEY WAVE SPRINGS

Metric series bearing preload in Carbon Steel and Stainless Steel 17.7:

- SSB

Inch series bearing preload in Carbon Steel and Stainless Steel 17.7:

- SSR, SSR-N

Round wire springs (Wavo):

- RW

Crest-to-Crest metric sizes in Carbon Steel and Stainless Steel 17.7:

- CM/CMS

Crest-to-Crest inch sizes in Carbon Steel and Stainless Steel 17.7:

- C/CS

Multiple turn wave springs:

- NESTED SPIRAWAVE®

Linear springs:

- LS

On request Super Alloys:

- Inconel, Nimonic, Titanium, ecc.

CHRISTIAN BAUER DISC SPRINGS

CB disc springs:

- (DIN 2093)

CB disc springs Stainless Steel:

- (DIN 2093)

Ball bearings preload disc springs:

- Slotted
- Plain

On request Super Alloys:

- Inconel, Nimonic, Titanium,
ecc.



DISC SPRINGS

Disc springs:

- (DIN 2093)

Disc springs Stainless Steel:

- (DIN 2093)

Ball bearings preload disc springs:

- Plain



KNURLED, SERRATED AND SPRING WASHERS

Knurled washers:

- RZS standard
Steel/Zinc Plated
Stainless Steel
- RZSVS heavy
Steel/Zinc Plated

Serrated washers:

- RDA external - DIN 6798 A
Steel/Zinc Plated
Stainless Steel
- RDI internal - DIN 6798 J
Steel/Zinc Plated
Stainless Steel
- RDV taper - DIN 6798 V
Steel/Zinc Plated



Spring washers:

- REA Convex - DIN 137 A
Steel/Zinc Plated
- REB Crinkled - DIN 137 B
Steel/Zinc Plated
- RBE - DIN 6796
Steel/Zinc Plated
- Split - UNI 1751 B
DIN 127 B (Grower type)
Steel/Zinc Plated/
Stainless Steel

Plain washers:

- For exagonal head screws
UNI 6592-DIN 125
Steel/Zinc Plated/
Stainless Steel
- Plain washer - large series
DIN 9021
Steel/Zinc Plated/
Stainless Steel
- Standards series (300HV)
ISO 7089
Steel/Zinc Plated

Safety washers:

- With notch
UNI 6599-DIN 432
Steel/Zinc Plated/
Stainless Steel
- Tab lock washers
UNI 6600-DIN 93
Steel/Zinc Plated/
Stainless Steel

SPRING PINS AND SPIRAL PINS

Spring pins:

- Standard ISO 8752 (ex DIN 1481-UNI 6873)
- Lightly duty ISO 13337 (ex DIN 7346-UNI 6874)
- Stainless Steel ISO 8752 (ex DIN 1481-UNI 6873)

Spiral pins:

- Standard ISO 8750 (ex DIN 7343-UNI 6875)
- Heavy duty ISO 8748 (ex DIN 7344-UNI 6876)
- Stainless Steel ISO 8750 (ex DIN 7343-UNI 6875)

Assortment boxes

- Standard ISO 8752



DOWEL PINS

Cylindrical pins:

- Not hardened ISO 2338 (h8/m6 Steel/Stainless Steel)
- Hardened DIN 6325
- Hardened DIN 7979 D
- Not hardened DIN 7979 C (Steel/Stainless Steel)

Taper pins:

- Not hardened DIN 1 B (Steel/Stainless Steel)
- Not hardened DIN 7977
- Not hardened DIN 7978 A

Grooved pins:

- DIN 1470
- DIN 1471
- DIN 1472
- DIN 1473
- DIN 1474
- DIN 1475
- DIN 1476



TENSION BUSHES

Tension Bushes:

- DIN 1498 for holes

COMPRESSION LIMITER

STUD BOLTS

Short end:

- UNI 5909
 - UNI 5910
- Steel/Zinc Plated/
Stainless Steel

Medium end:

- UNI 5911
 - UNI 5912
 - UNI 5913
- Steel/Zinc Plated/
Stainless Steel

Long end:

- UNI 5914
 - UNI 5915
 - UNI 5916
- Steel/Zinc Plated/
Stainless Steel

Extra long end:

- UNI 5917
 - UNI 5918
 - UNI 5919
- Steel/Zinc Plated/
Stainless Steel

KEYS, KEY STEELS

Keys:

- DIN 6885 A (UNI 6604 A- ex ISO 773 A) Steel/Stainless Steel)
- DIN 6885 B (UNI 6604 B- ex ISO 773 B) Steel
- DIN 6885 AB (UNI 6604 AB- ex ISO 773 AB) Steel

Gib-heads keys:

- DIN 6887 (UNI 6608- ex ISO 774) Steel

Woodruff keys:

- DIN 6888 (UNI 6606- ISO 3912) Steel/Stainless Steel)

Key steels:

- DIN 6880



Keys:

- DIN 6885 C, D, E, F, G, H, J

Assortment boxes

- DIN 6885 A

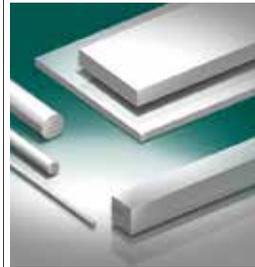
PRECISION GROUND FLAT STOCK

GFS Ground Flat Stock:

- AISI 01: Steel for cold machining

CSS Silver Steel:

- BSS 1407



LOCK NUTS, WASHERS, ADAPTER SLEEVES, ADJUSTING RINGS, HOOK WRENCHES

Locking nuts:

- KM Steel/Zinc Plated Stainless Steel
- KML reduced external Ø Steel/Zinc Plated
- HM Steel

Safety washers:

- MB Steel/Zinc Plated Stainless Steel
- MBL reduced external Ø Steel/Zinc Plated

Safety brackets:

- MS Steel

Precision nuts:

- KMW Steel/Zinc Plated Stainless Steel
- KMT Steel
- KMTA reduced external Ø Steel
- KMZ Steel



Self-locking nuts:

- GUK - standard
- GUP - heavy duty
- GUA - Ø and special pitches

Adjusting rings:

- AP (DIN 705)

Tensile adapter sleeves:

- H
- OH - with oil system

Pressure adapter sleeves:

- AH
- AOH - with oil system

Hook wrenches:

- HN (DIN 1810)



SCREWS AND NUTS

Hexagonal head screws partially threaded:

- ISO 4014-UNI 5737-DIN 931
- ISO 8765-UNI 5738-DIN 960
- UNC ANSI B18-2-1 GR5
- UNF ANSI B18-2-1 GR5

Hexagonal screws totally threaded:

- ISO 4017-UNI 5739-DIN 933
- ISO 8676-UNI 5740-DIN 961

Hexagonal socket head cap screws:

- ISO 4762-UNI 5931-DIN 912

Hexagonal socket countersunk head screws:

- UNI 5933-DIN 7991-A

Hexagonal socket head cap screws and low head with easier hole:

- DIN 6912



Grub socket screws:

- ISO 4026-UNI 5923-DIN 913
- ISO 4028-UNI 5925-DIN 915
- ISO 4027-UNI 5927-DIN 914
- ISO 4029-UNI 5929-DIN 916

Hexagonal socket head cap screws and low head:

- DIN 7984

Hexagonal socket button head screws:

- ISO 7380

Hexagonal high nuts:

- UNI 5587 (PG/PF)

Normal Hexagonal nuts:

- UNI 5588-DIN 934 (PG/PF)

Low Hexagonal nuts:

- UNI 5589-DIN 936 (PG/PF)

Self locking nuts:

- DIN 982 Hexagonal HIGH
- DIN 985 Hexagonal LOW

Self locking nuts:

- DIN 980

Hexagonal nuts with flange:

- DIN 6923

Hexagonal nuts:

- UNC - ANSI B18-2-2-65
- UNF - ANSI B18-2-2-65

Hexagonal heavy duty nuts:

- UNC ASTM A 194

MINIPLAST® SMALL PLASTIC PARTS

- Washers and retaining rings

- Finishing products for screws and bolts

- Spacers, bushes and sleeves

- Knobs and handles

- Screws and nuts

- Drive fasteners and rivets

- Cables and pipes accessories

- Cups and spacers

- Plugs



- Feets

- Assortment boxes

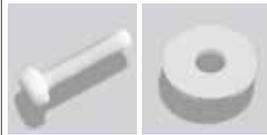
MINIPLAST® PLASTIC SCREWS, NUTS, WASHERS AND SPACERS

- Screws with Hexagonal, Cylindrical head, countersunk head, round head, wing head, grub and with threaded, bars heads

- Hexagonal nuts, cap nuts, knurled nuts, wing nuts

- Flat Washers

- Spacers and Hexagonal spacers



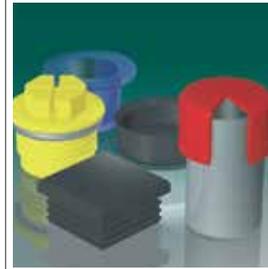
MINIPLAST® PLUGS, CUPS AND PLASTIC COMPONENTS

- Protection products: quick-fitting plugs and cups, hydraulic products, corner and edge protection, flange protection

- High temperatures components: up to 300°, up to 220°, up to 180°

- Packagings and boxes cups: pots, viols and little boxes cups

- Components for the electrical sector: plugs and stain relief bushes, cable glands, cable covers, cable ties and accessories, cable clips, terminal sleeves



- Electrical components: caps and tube insert, tube fittings

- Screws cups and technical parts: assorted feet, ferrules, knobs, handles, sundry articles

MINIPLAST® PLASTIC CLAMPS, HAND WHEELS

- Adjustable levers

- Adjustable clamps

- Indexit bolts

- Handwheel

- Knurled nuts

- Screws and nuts

- Palm grips

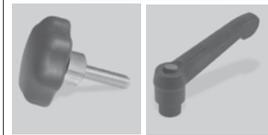
- Three star handles

- Wing-shapes handles

- T handles

- Cylindrical handles

- Ball buttons



- Bail grips

- Crack handles and handwheels



GANDINI®
FASTENERS



GANDINI FASTENERS SRL

PRODUCTION AND DISTRIBUTION OF FASTENERS, FIXING ELEMENTS AND MECHANICAL PARTS MACHINING

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