

***the art
of steel.***



SENSAC

www.sensac.com



Our History



Company foundations were laid by founder İsmet Şen under the brand "Şenel".



Increasing the product range, furniture fittings were added to our production list.

1966

1969

1974

1984



Facility with Latest Technology. New products were also added to production range.

Started its first production with piano hinge brand name ŞENEL.



Mass Production: Cold Rolled Flat from wire rod.

ŞENSAC company was established in 1984 to serve as Steel Service Center.



1999

2007

2009

2011

We produce our first cold rolled flat wire.



Both companies merged under Şensac. Company Şenel become only importer and exporter.



Who we are?

ŞENSAC supplies qualified cold rolled flat wire, profiles and offer steel services on sheet metals such as cold rolling, length cutting and slitting by its expert operators over 50 years.

Company still continues its piano hinge production under ŞENEL brand. Today, ŞENSAC operates in compliances with latest ISO standarts and continues its productions with the advanced technology in its 16,500 m² closed area modern facilities in Gebze, Kocaeli.

Production Flow

1 Raw Material - Wire Rod



High-quality; low, medium or high carbon wire rods are used as the main material. Upon request, special quality wire rods can also be used.

2 Production - Cold Rolling



Production is made with our multiple cold rolling heads that is integrated with automation systems.

3 Surface Quality



Cold rolled flat wire products are made brighter with newer oscillating technology.

4 Oscillated Coils



With our special oscillating technology, continuous (multiple) windings are made without welding.

5 Packaging



The products packaged and made ready for shipment as our customer demands.

Cold Rolled Flat Wire

- By cold rolling method, wire rods are rolled into shapes
- High quality raw material
- Coil productions up to 2000kg without welding
- Production according to EN10139 standards

Product Types

As standard, we produce the following edge forms. If requested, special edge forms are also possible.



V Shaped



Special Edge



Sharp



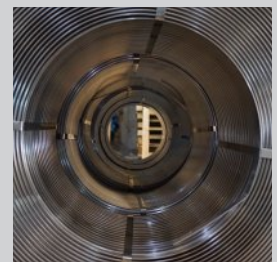
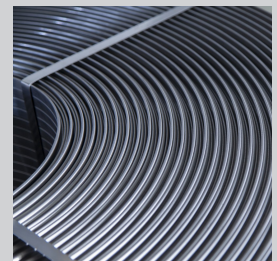
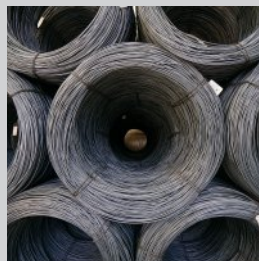
Half Radius



Chamfered



Full Radius





Cold Rolled Flat Wire

Production Dimensions

- Oscillated coils or cut to length production can be made.
- Thickness tolerances +/-0,03mm
- Width tolerances +/-0,05mm
- More precise tolerances can be produced on demand.

Please check the right table for size ranges.

Thickness (mm)	Width (mm)																								
	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25				
0.5																									
1.0																									
1.5																									
2.0																									
2.5																									
3.0																									
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5.5																									
6.0																									
6.5																									
7.0																									
7.5																									

■ Oscillated Coils or Cut to Length

Coil Dimensions

Coil dimensions and weights can be arranged with the following values.

Quality and Grades

According to tensile strengths, production can be made in 3 different quality.

A Quality 390 - 590 N/mm²

B Quality 590 - 690 N/mm²

C Quality 690 - 790 N/mm²

"A quality" materials are applied hardness removal in our bell type annealing furnace. Certificates indicating chemical and physical values are issued for each material after production.

Usage Area

Our products produced using latest technology, is preferred by manufacturers in Turkey and European markets.

Some of the main sectors our products used such as window mechanisms, white goods, automotive, furniture, grill manuctacters.

Inner Diameter (A)
400 / 450 / 500 mm

Outside Diameter (B)
750 mm - 1250 mm

Width (C)
200 mm - 450 mm

Weight
750 kg - 2000 kg



Production Flow

1 Raw Material – Cold Rolled Coils



Cold rolled coils as raw material.

2 Production – Slitting CR Coils



Cold rolled coils are brought to desired widths by slitting clean and burr-free in our slitting machines.

3 Precision Slitting



Our experienced operators provide slitting service in low tolerances up to 7 mm width.

4 Coiling



Slitted coils, properly wrapped and strapped at the final stage and made ready for packaging.

5 Packaging



The materials are made ready for shipment by special packaging according to the customer demand.


STEEL SERVICE CENTER

Cold Rolled Slitted Coils

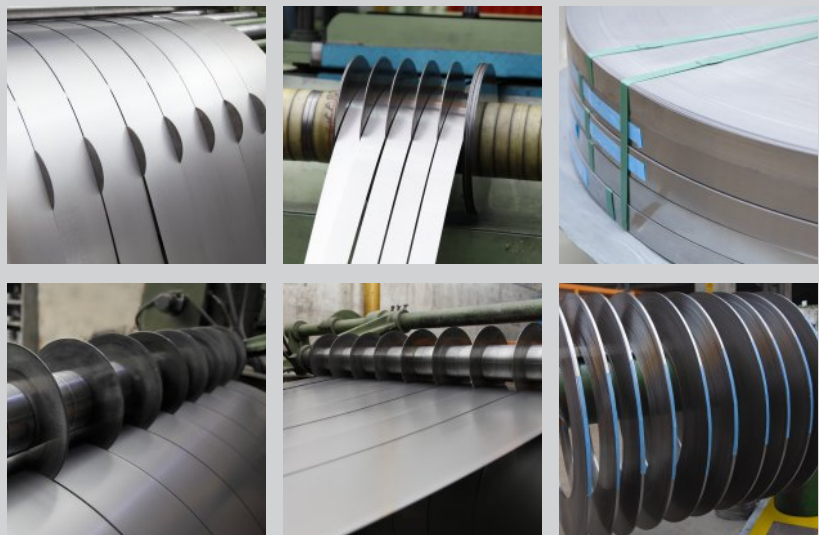
Slitting process of materials in quality and size requested by our customers:

- First Quality coils as raw material
- By our expert, more than 35 years experienced
- Each of our products is delivered to our customers with chemical and physical test certificates.
- If our customers demand, subcontracting is also done.
- Production according to EN10139 standards

Our Capacity



Slitting Capacity
Decoiler 20 tone
Coil Inlet Diameter 400 mm - 508 mm
Thickness 0,30 mm - 3,00 mm
Width 7 mm - 2000 mm



Production Flow

1 Raw Material - Cold Rolled Coils



Cold rolled coils as raw material.

2 Production - Cold Rolling



Sheet thicknesses are rolled within the precision thickness tolerance by between 0.30-3.00mm.

3 Surface Quality, Strength and Homogeneity



The material surface quality, tensile strength and mechanical homogeneity increases after rolling.

4 Rolling at Low Tolerances



Production can be made with tolerances in the range of +/- 0,005mm with our high-tech test equipment.

5 Packaging



The materials are made ready for shipment by special packaging according to the customer demand.

STEEL SERVICE CENTER

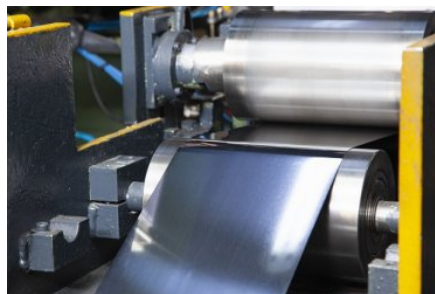
Cold Rolled Coils

With the rolling process made by reducing thickness of the sheets between 0.30-3.00 mm:

- First Quality coils as raw material
- Material tensile strength increases
- Surface quality increases
- Low thickness tolerance is achieved
- The homogeneity of the sheet increases, we can achieve the desired mechanical test values of our customers.
- We also cold roll copper, bronze and aluminum.

The products of our customers who supply to the world's largest companies are safely used in countries such as USA, China, Germany, Brazil, Argentina, Italy, France, Australia and South America.

Our Capacity

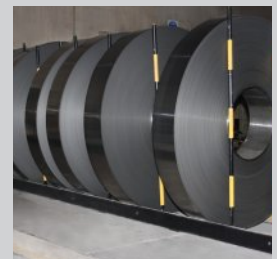
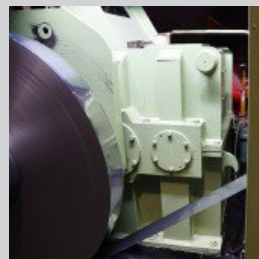


Cold Rolling Capacity

Decoiler
2 tone

Coil Inlet Diameter
400 mm - 508 mm

Thickness
0,30 mm - 3,00 mm



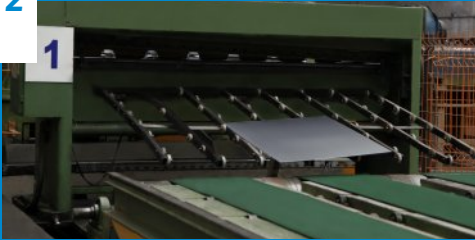
Production Flow

1 Raw Material – Cold Rolled Coils



Cold rolled coils as raw material.

2 Production – Cut to length



The sheet are cut into desired lengths and widths with clean and burr-free edges in our lines.

3 Proper Package



Sheets that are cut to length are arranged properly and strapped and prepared for shipment.

“the art of steel.”




Cut to Length Coils

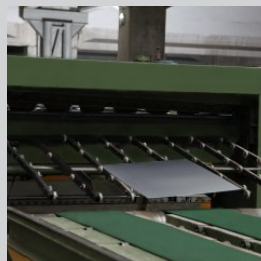
Process of materials in quality and size requested by our customers:

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- Production according to EN10139 standards

Our Capacity



Cut to Length Capacity
Decoiler 20 tone
Coil Inlet Diameter 400 mm – 508 mm
Thickness 0,30 mm – 3,00 mm
Width 7 mm – 2000 mm
Length 600 mm – 3000 mm



Production Flow

1 Raw Material - Cold Rolled Coils



Storage services are provided for materials of different qualities belonging to our customers.

2 Weighbridge Weighing



Materials came to our factory are weighed in our vehicle scale before entering our storage system.

3 Labeling



Materials are taken to storage area after labeling is done with info such as size, quality, weight and customer/supplier.

4 Stock Report



Our customers can receive reports on stock materials at any time.



Storage of Coils

- We provide storage services to our customers upon request.
- The materials are stored in suitable conditions in our large area.
- Slitting, Cold Rolling and Length Cutting process is applied to the stored materials according to the customer's request.
- If desired, stored materials can be shipped without processing.
- Thanks to our stock information system, stock reports can be given at any time if requested.

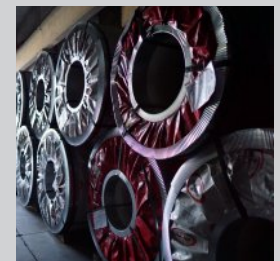
Our Capacity



Storage Capacity

Open Stock Area
2000 tone

Inner Stock Area
1500 tone



Production Flow

1

Raw Material - Slitted Coils + Drawn Wire



Slitted sheet metal and drawn wire are used in the production of piano hinges.

2

Brass Plating



With our 80 meter long special brass plating facility, rust resistant yellow color steels are gathered.

3

Mass Production



With our automation production, 6,000,000 meters of hinges can be produced annually.

4

Packaging



Roll Packaging

This packaging is used both local and oversea shipments.

Wooden Case Packaging

Piano hinges placed in wooden cases wrapped in oiled craft paper to protect them from water and moisture. This packaging is made especially in overseas shipments.

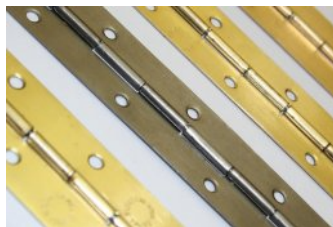
Bundle Packaging

This packaging is used both local and oversea shipments.



Piano Hinges

- Our currently ongoing production of ŞENEL brand piano hinge, Turkey's largest integrated plant with an annual capacity of 6,000,000 meters. Our products are well-known in domestic and especially in foreign markets.
- Slitted Steel coils, main raw material of the hinge, are applied brass plating process in our 80 meters long pools with a special receipt.
- Thanks to this plating, the rust life of our hinges is extended.
- Our hinges are available with cross punctured holes, opposing punctured holes and without holes options.
- Uncoated, stainless and RAL series painted hinges are also manufactured according to customer demand.
- Requested special size orders are also evaluated.



Piano Hinge Dimensions

Thickness

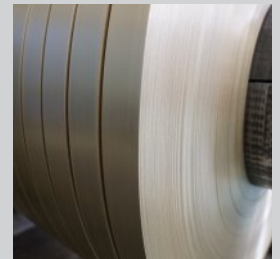
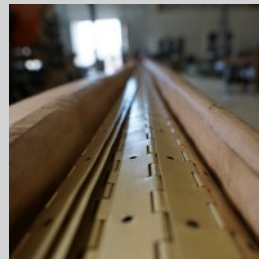
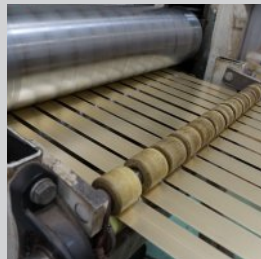
0,50 - 0,60 - 0,70 - 0,80 mm

Width

28 mm - 30 mm - 32 mm

Lenght

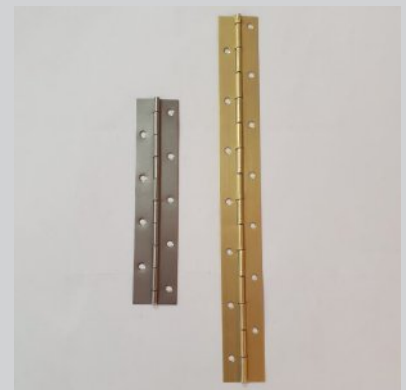
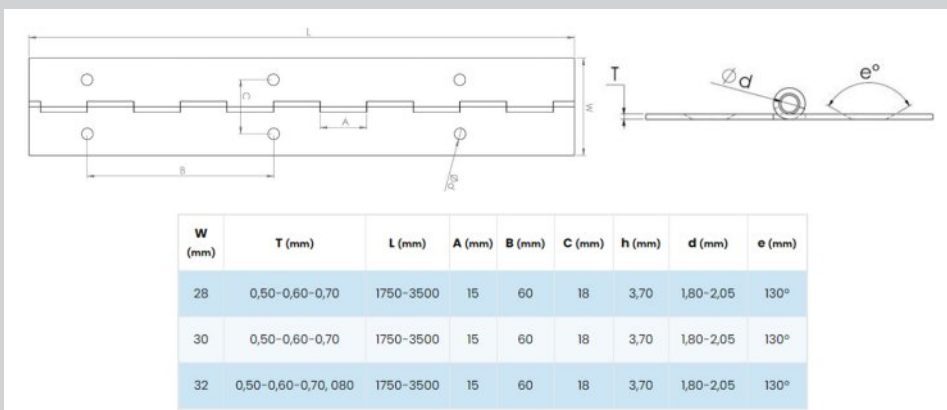
1750 mm - 3500 mm



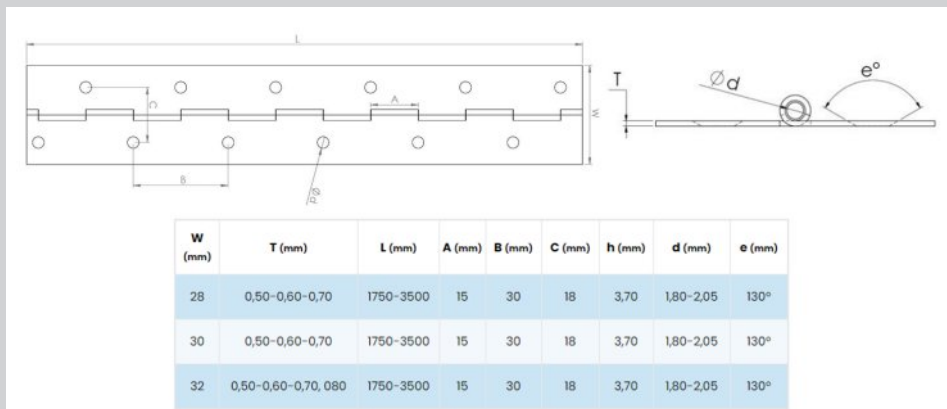


Dimensions Drawings

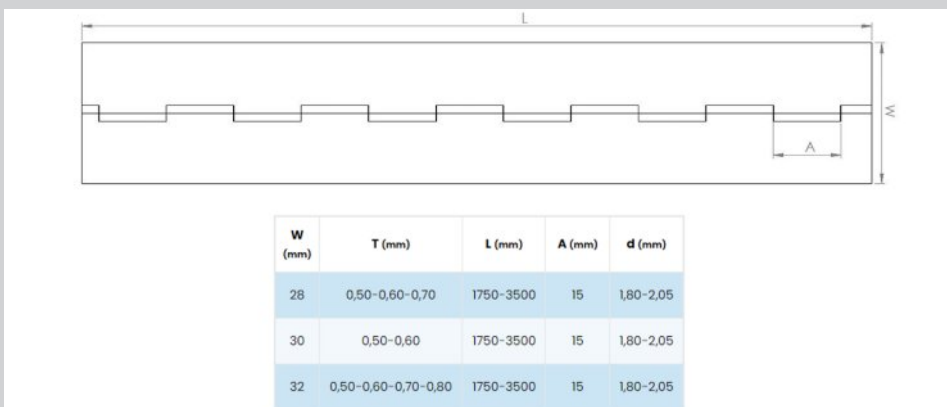
Opposing Punctured Piano Hinge

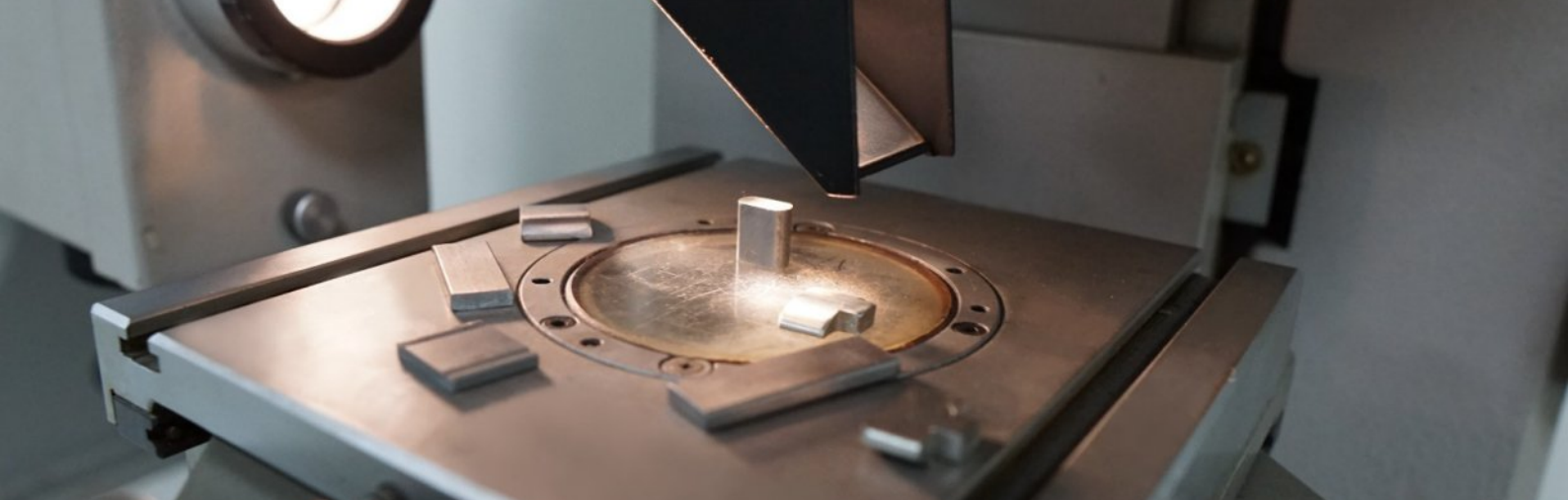


Cross Punctured Piano Hinge



Piano Hinge with No holes

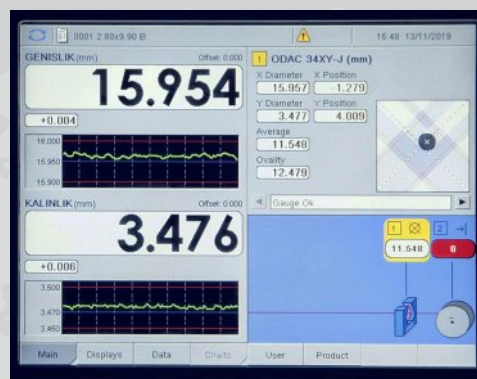




Our Quality Policy

As SENSAC, we continue our efforts to keep quality at the highest level in our production and management processes. Accordingly, you can find our policy contents in our website.

Quality Policy
Environmental Policy
Occupational Health and Safety Policy

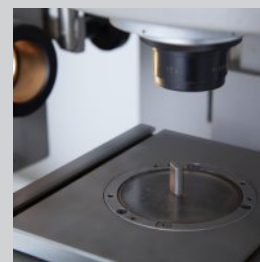


After taking orders into production, we minimize mistakes with continuous controls and with our product tracking system. Following production of our customer demands, we deliver product specs with chemical and mechanical test reports.

Certificates

In our website, you can find our internationally valid certificates to achieve our mission to value our customers, environment and our employees.

Quality Management - ISO 9001:2015
Environmental Management - ISO 14001:2015
Occupational Health and Safety - ISO 45001:2018





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