



ASIL ÇELİK SANAYİ ve TİCARET A.Ş.

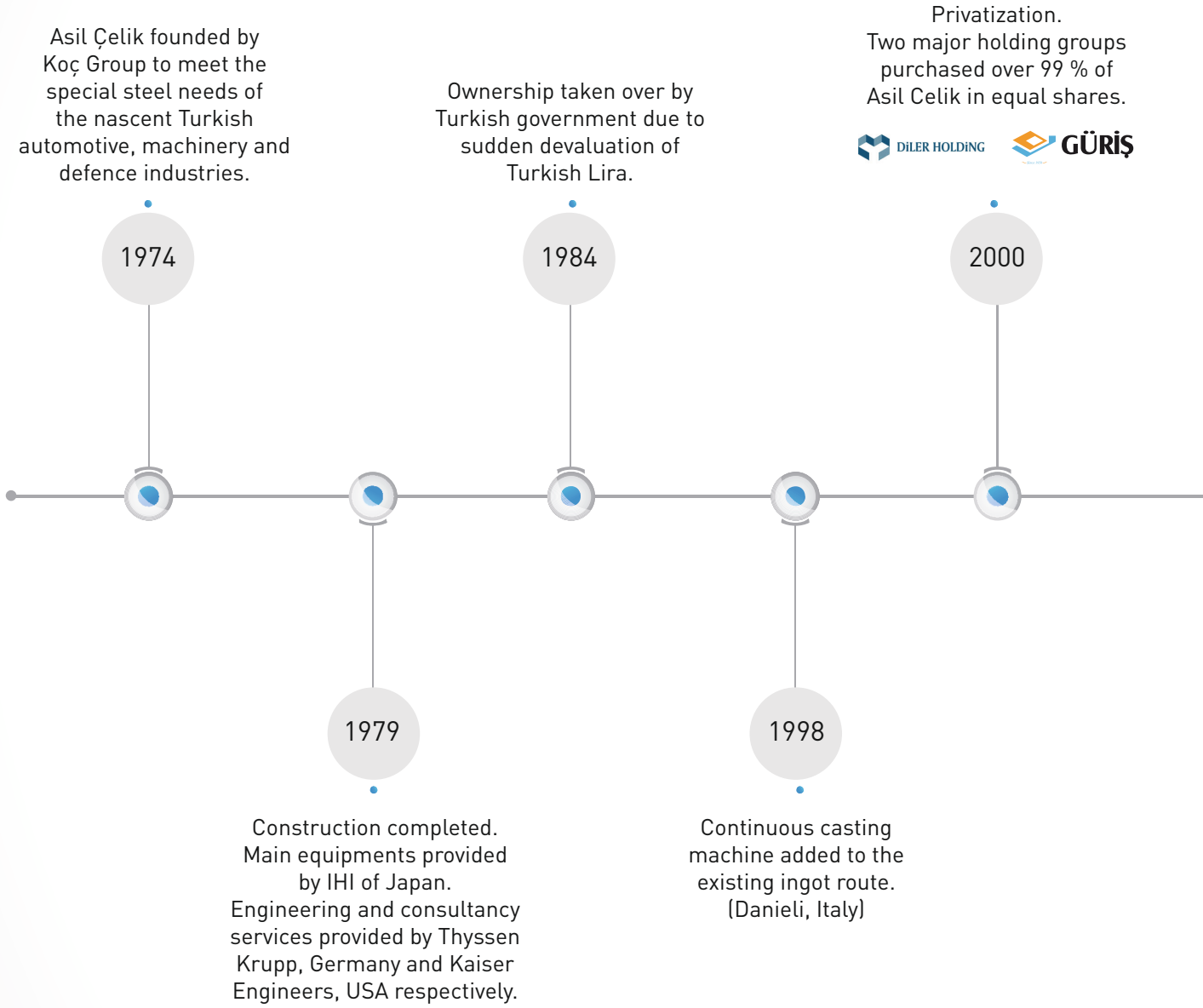


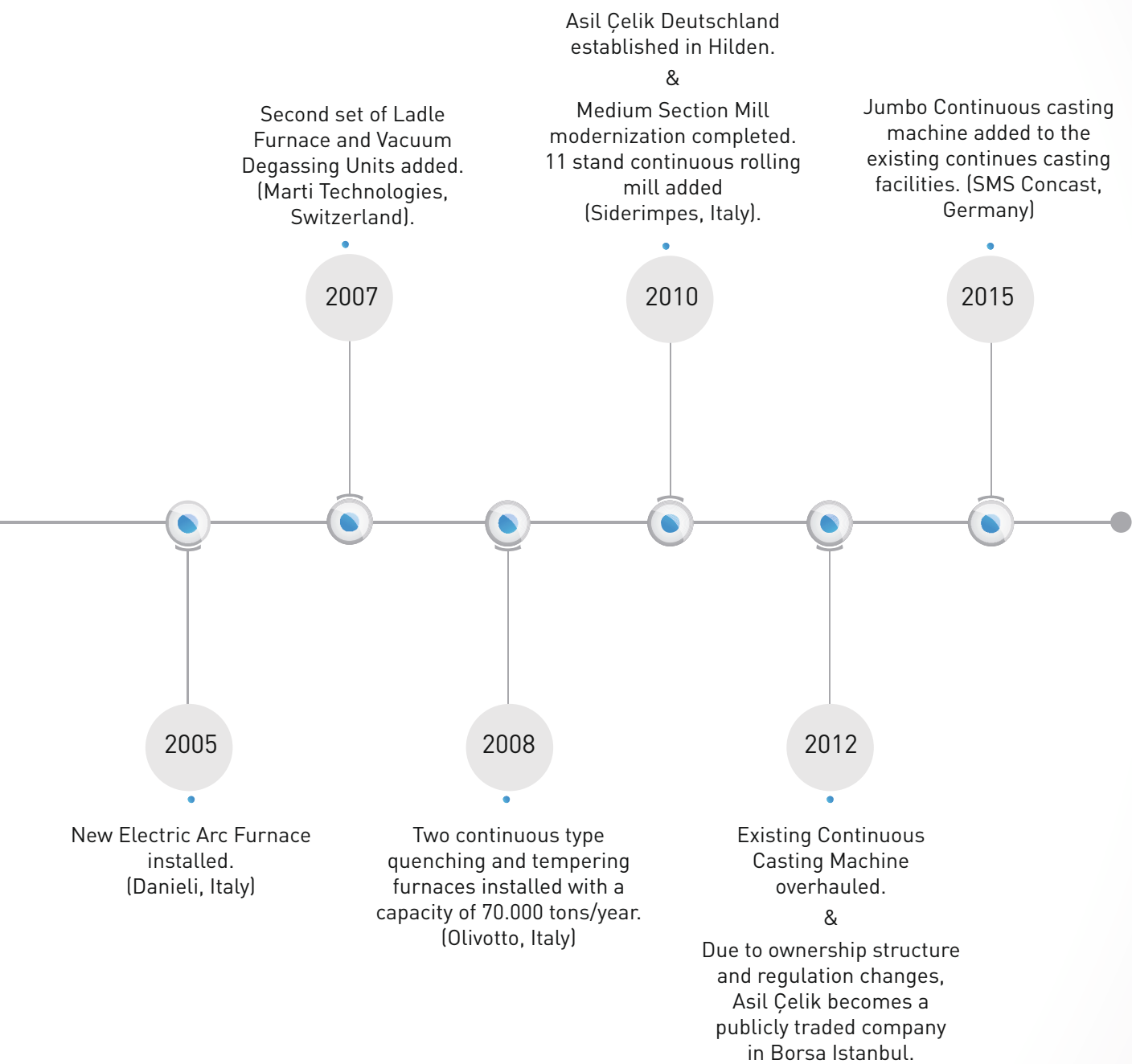
As the first and foremost producer of engineering and stainless steel bars and billets in Turkey, Asil Çelik has had a major influence in the development of various industries across the country.

In the course of 35 years of steel making, we have obtained numerous approvals from major original equipment manufacturers in various sectors such as automotive, defence, machinery, mining, and energy. Our consistent quality and attentive service have enabled us to become a preferred raw material supplier to a prestigious customer portfolio worldwide.

In a changing world, we remain committed to constantly upgrading our production process in order to provide the best service to our partners and meet their individual needs going forward.

# COMPANY HISTORY







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# PRODUCTS

## INGOTS



The current ingot casting shop is capable of several sizes and uses the bottom pouring method. The latest revisions were made in 2013 with the addition of a new shrouding system, allowing for better quality control. The majority of the ingots are delivered to our large section mill for rolling, although as cast ingot products are also available.

	Dimensions (mm)	Height (mm)	Weight (kg)
Square	480X480	1.510	2.250
Square	550X550	1.730	2.800
Polygonal	710	1.500	5.000

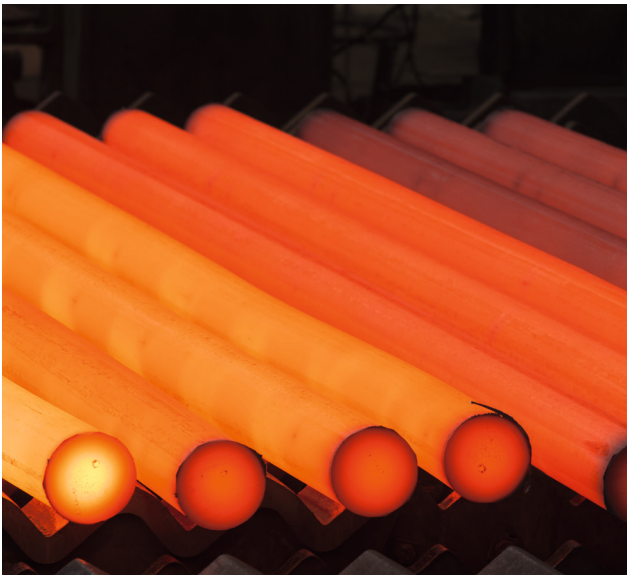
## CONTINUOUS CAST BILLETS AND BLOOMS



The continuous casting facility has been expanded in 2015. With the addition of a new continuous casting machine, nine different as cast size options are available as listed below. The billets and blooms are hot stamped automatically for subsequent traceability.

	Dimensions (mm)	min - max Length (mm)
Square	135x135	3.000 - 12.000
Square	160x160	3.000 - 12.000
Square	240x240	2.500 - 6.000
Rectangular	280x300	2.500 - 6.000
Round	300	2.500 - 6.000
Round	306	3.000 - 12.000
Round	410	2.000 - 6.000
Round	500	2.000 - 6.000
Round	600	2.000 - 6.000

## HOT ROLLED PRODUCTS



Our rolled products are divided into two categories according to the mill in use. The medium section mill provides the round, square bars up to 75 mm and the flat and hexagonal bars up to 71 mm. The large section mill provides the square, round bars above 75mm and large flat bars.

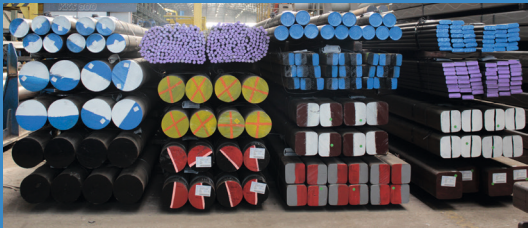
	Dimensions (mm)
Round Bars	18 - 220
Round Corner Square Bars	50 - 245
Hexagonal Bars	18 - 71
Large Flat Bars	50-200 x 135-400
Flat Bars	6-60 x 50-120

## RANGE of PRODUCTS

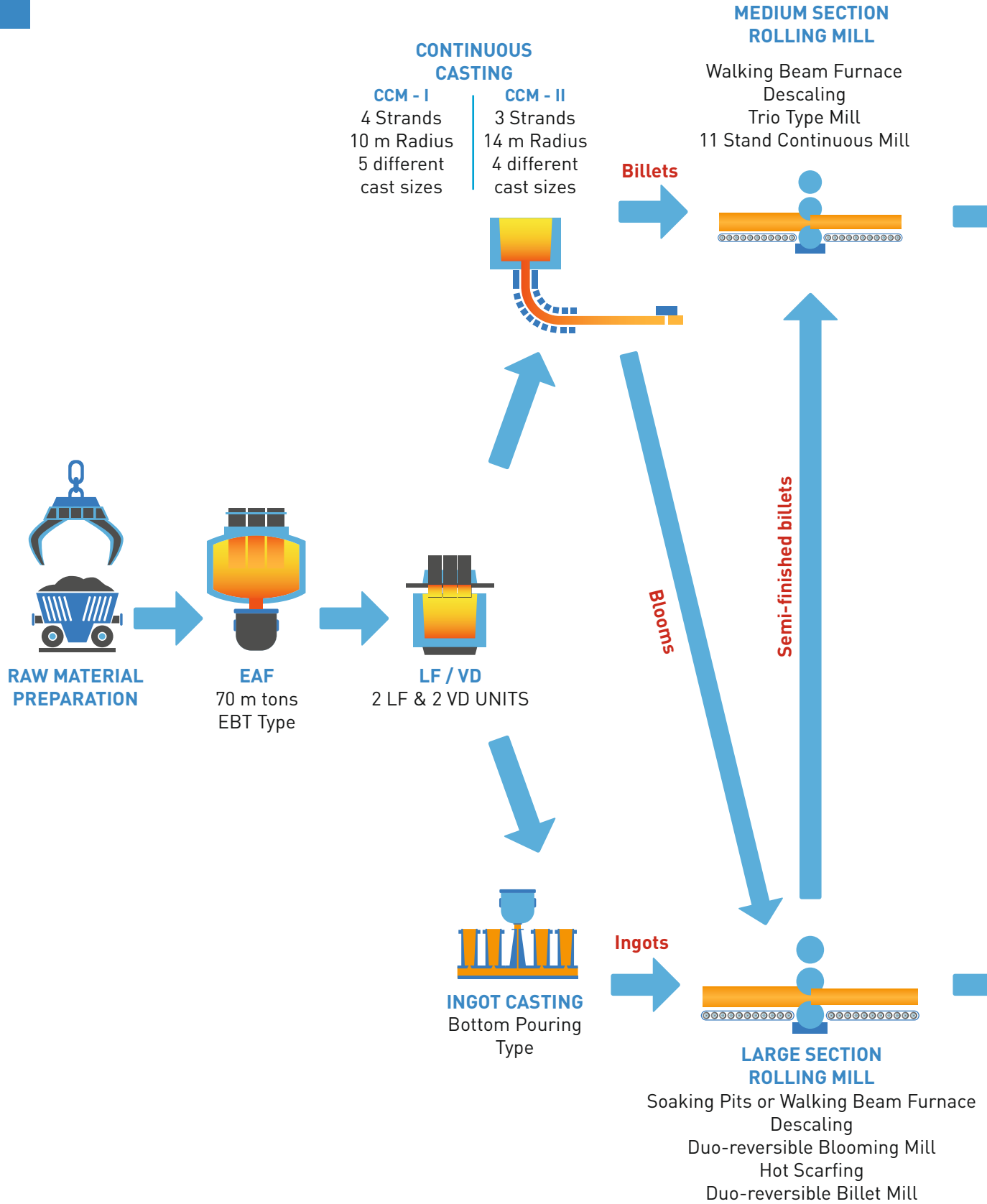
- Carbon Steels
- Heat Treatable Steels
- Case Hardening Steels
- Micro Alloy Steels
- Boron Steels
- Bearing Steels
- Spring Steels
- Stainless Steels (Ferritic and Martensitic)
- Free Cutting Steels (with/without Lead)
- Wear Resistant Steels
- High Temperature Resistant Steels
- Tool Steels (Cold and Hot Working)
- Nitriding Steels
- Constructional Steels

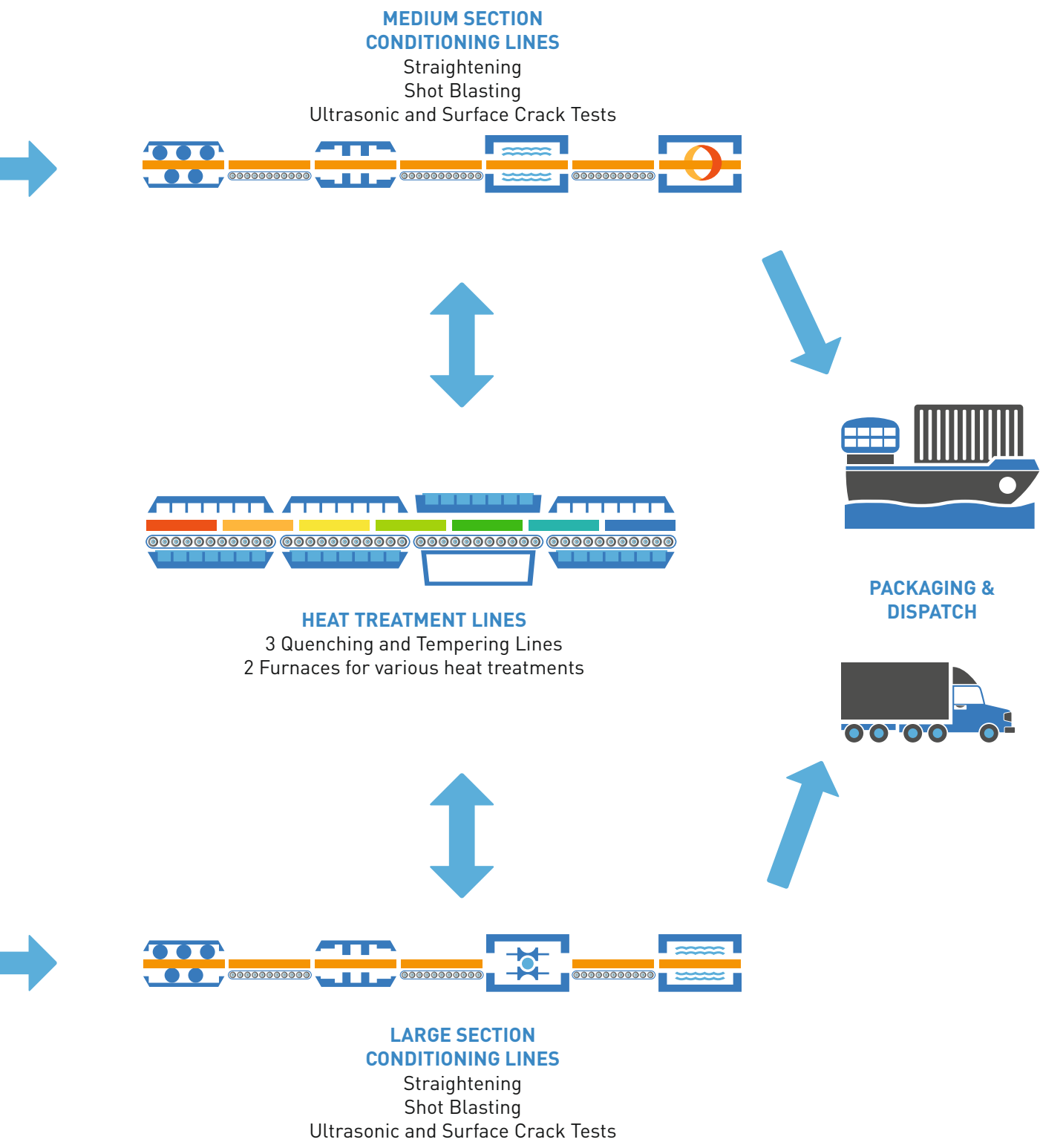
## END USE of OUR PRODUCTS

- Automotive Industry
- Machine & Manufacturing Industry
- Spring Production Industry
- Hand Tools Production Industry
- Military and Defence Industry
- Bolts and Nuts Production Industry
- High Pressure Tubes Production Industry
- Energy Industry
- Mining Industry
- Aircraft Industry
- Ship Construction Industry

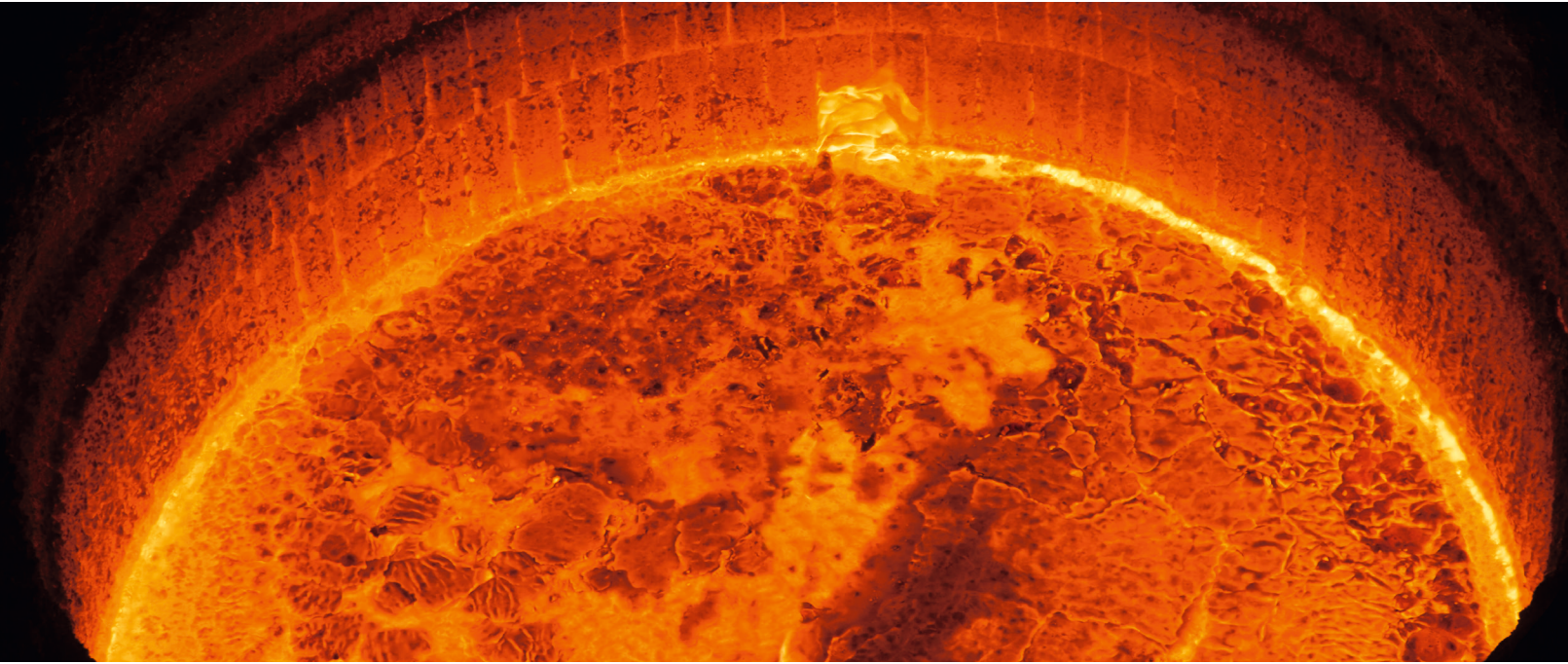


# PRODUCTION PROCESS





# STEEL MELT SHOP



## ELECTRIC ARC FURNACE

**Capacity** 70 tons, 60 MVA  
**Producer** Danieli, Italy

Electric arc furnace (eccentric bottom casting method) equipped with water jackets, oxy-gas burners, water cooled electrodes, scrap preheating system and full automatic material addition system.

Liquid Steel Capacity:  
485.000 tons / year

## LADLE FURNACE 1

**Capacity** 70 tons  
**Producer** LECTROMELT, USA

## LADLE FURNACE 2

**Capacity** 70 tons  
**Producer** Danieli, Italy

## VACUUM DEGASSING 1

**Capacity** 70 tons  
**Producer** IHI, Japan

## VACUUM DEGASSING 2

**Capacity** 70 tons  
**Producer** Martie Technologies, Switzerland

## CONTINUOUS CASTING

### CCM - I

Danieli, Italy

4 strands

10m radius

EMS in moulds and on strands

Level 2 process controls

#### Cast sizes:

- Squares: 135 mm, 160 mm, 240 mm
- Rounds: 300 mm
- Rectangular: 280x300 mm

### CCM - II

SMS Concast, Germany

3 strands

14m radius

EMS in molds and on strands

Soft Reduction

Level 2 process controls

#### Cast sizes:

- Rounds: 306 mm, 410 mm, 500 mm, 600 mm

## INGOT CASTING

Bottom Pouring Type Ingots

#### Ingot sizes:

- 550 x 550 mm; 2800 kg
- 480 x 480 mm; 2250 kg
- 710 mm dia; 5000 kg
- Other sizes based on customer specifications.



## MEDIUM SECTION ROLLING MILL



**Capacity** 200.000 tons / year

**Sections** 18 - 75 mm Round  
50 - 65 mm Square  
6 - 60 x 50 - 120 mm Flat  
18 - 71 mm Hexagonal

- Walking Beam Furnace
- Descaling
- Preparation Mill (Trio Type)
- 11 Stand Continuous Mill (Siderimpes)
- Cooling Beds - 54m x 8m
- Controlled Cooling - 54m x 3m

# LARGE SECTION ROLLING MILL

**Capacity** 250.000 tons / year

**Sections** 75 - 220mm Round  
50 - 245mm Round Corner Square

- Walking Beam Furnace (Bendotti, Italy)
- Soaking Pits for Ingots (6 units)
- Descaling
- Blooming Mill, Duo-reversible (IHI, Japan)
- Hot scarfing
- Billet Mill, Duo-reversible (IHI, Japan)



# CONDITIONING LINES



After the rolling process, all products go through conditioning lines. Conditioning lines include following processes:

- Straightening (Cross Rolling and Gag Press)
- Shot blasting
- Ultrasonic inspections
- Surface crack test
- Spectro (mix-up) tests

Asil Çelik continuously invests in these lines in order to meet rigorous and changing customer requirements of various industries.

# HEAT TREATMENT LINES



3 quenching and tempering lines with a total capacity of 85.000 tons / year

2 heat treatment furnaces with a total capacity of 110.000 tons / year for applications such as Softening, Normalizing, Spherodizing and various types of Annealing.

Asil Çelik has extensive experience in heat treatment processes and works closely with customers to adjust sensitive parameters in order to reach optimum steel properties.

# LABORATORIES



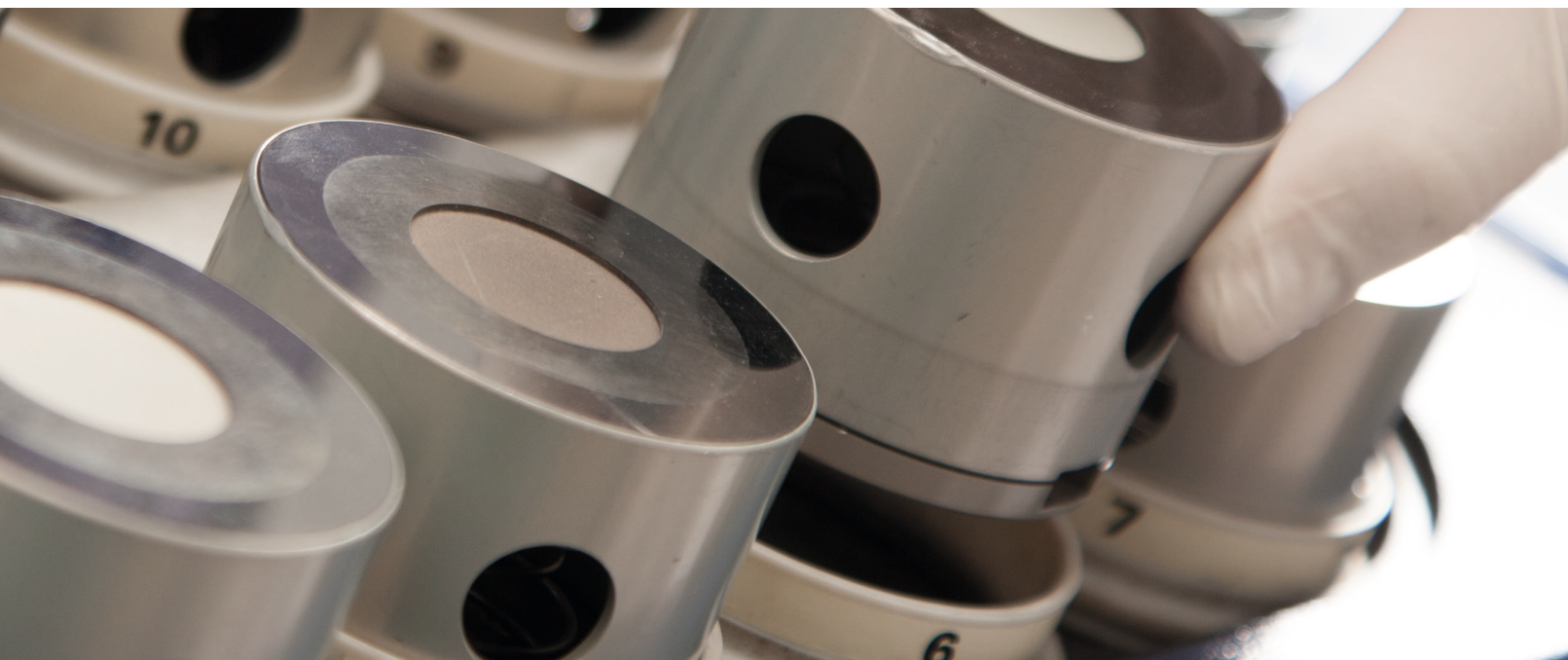
## Chemistry Laboratory:

- Optical Emission Spectrometers
- X-Ray Spectrometers
- N/O/H Analysis
- C/S Analysis

## Metallography Laboratory:

- Sample Preparation Devices
- Optical Microscopes
- Micro Hardness Test Devices





**Mechanical Test Laboratory:**

- Hardness Measurement Devices
- Stress and Impact Test Devices
- Heat Treatment Laboratory
- Sample Preparation Shop

Detailed tests are performed on accredited devices by experienced personnel.

Precise test results are reported on quality certificates as requested by end users.

# WORLD WIDE PRESENCE WITH MAJOR OEM APPROVALS



E-T-N | Powerware

DAIMLER



**CLAAS**

# CERTIFICATES

## SYSTEM CERTIFICATES



ISO 9001



ISO 16949



ISO 9001



ISO 14001

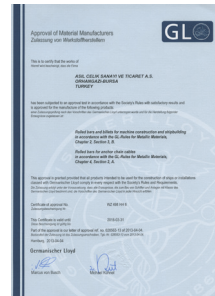


OHSAS 18001

## PRODUCT CERTIFICATES



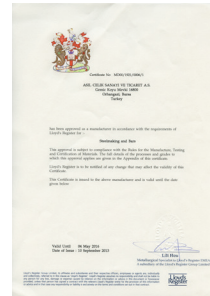
Det Norske  
Veritas



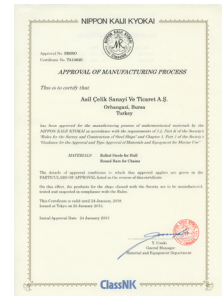
Germanischer  
Lloyd



Korean Register



Lloyds Register



CLASS NK



TÜV Rheinland



American Bureau  
of Shipping

# CONTACT



## Plant :

Gemic Koyu Mevkii 16800  
Orhangazi / BURSA / TURKEY  
Tel : +90 224 280 61 00  
Fax : +90 224 280 62 00

## Sales Office / Service Centre:

TOSB Organize Sanayi Bolgesi  
13. Sok. No:3 41420  
Sekerpinar / Cayirova / KOCAELI  
TURKEY  
Tel: +90 262 781 60 00  
Fax : +90 262 781 60 05

## Germany Sales Office :

Asil Celik Deutschland GmbH  
Nové-Mesto-Platz 3a  
40721 Hilden  
Deutschland  
Tel : +49 2103 78 92 30  
Fax : +49 2103 78 92 399

[www.asilcelik.com.tr](http://www.asilcelik.com.tr)  
[sales@asilcelik.com.tr](mailto:sales@asilcelik.com.tr)

[www.asilcelik.de](http://www.asilcelik.de)



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