

TURKCAST

TURKISH FOUNDRY ASSOCIATION (TÜDÖKSAD) ■ TUDOKSAD.ORG.TR

CASTFORGE ■ SPECIAL ISSUE ■ JUNE 2024



Turkish Metal Casting Industry

CONTENT

- Articles and insights from industry experts
- Latest advancements and trends in the Turkish metal casting industry
- Updates on TÜDÖKSAD's initiatives and projects
- Comprehensive view of the current state of the industry and its direction
- Valuable resource for attendees of the Castforge Trade Fair Quartet

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Molybdenum Metal
Niobium Metal
Selenium Metal
Silicon Metal
Wolfram Metal
Zirconium Metal

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Aluminium Chrome
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Silicon Calcium
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Copper Phosphorus

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Foundry Grade Pig Iron
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TURKISH FOUNDRY ASSOCIATION
(TÜDÖKSAD)
Chairman



Dear Colleagues,

It is very obvious that the Turkish metal casting industry has made significant progress in recent years and has a great potential. Although our final figures for 2023 have not yet been finalised, while the production of 3.1 million tonnes we achieved in 2022 and the production value of this production of 8.5 billion Euros and export figures of 6.5 billion Euros are records for our industry, we can say that we will maintain our position with the figures of 2023 and that our industry will continue to grow in the medium and long term. We provide approximately 22 % of the total 14.5 million tonnes casting production in Europe. These figures reveal the high competitiveness and quality of the Turkish metal casting industry in the world market.

In the last few years, our foundries have been making significant investments to meet the demand for castings, especially from abroad, and new, higher quality criterias. The use of new technology, high quality production capabilities and compliance with international standards by our foundries, which have rapidly adapted to the emerging conjuncture, has made our country a competitive power in the field of castings.

Again, the high rate of export of our production and the levels reached by our production capacity are of great importance in the future of our foundry industry. When we look at the last five months of 2023 and 2024, we see that our foundries have further diversified their export activities to foreign markets. The product quality of our metal casting industry has also made our country a preferred destination for international customers.

We believe that the Turkish foundry industry has the potential to grow in 2024 as it did in the previous period. As Turkish Foundry Association, we will continue to endeavour to ensure the sustainable development of our industry by making the best use of this potential.

As TÜDÖKSAD, we contribute to the promotion and thus the growth of the Turkish Metal Casting Industry by taking part in or supporting organisations related to the sector in the local and global arenas. Trade fair organisations are also an important tool of this mission. In 2024, we will gather at the internationally organised Ankiros-Turkcast fairs, which will bring together the entire metallurgical sector. We are happy to come together again at the CastForge fair, the first of which was held in 2018 and which has made significant progress in its third organisation, in which TÜDÖKSAD also took part. It makes us happy that our members also take a strong place in this fair, where our country has an important participation.

TÜDÖKSAD, which has the mission of promoting and representing our members and our industry in national and international markets, will continue this mission at CastForge. I wish a successful fair to all our members and our industry who will attend and visit the fair.

Kind regards,

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CONTENT



8

TURKISH METAL CASTING INDUSTRY

Turkish metal casting industry produces a wide range of parts for dozens of sectors, from construction to automotive, from mining to aerospace, from parts as light as 1 gram to parts as heavy as 300 tons.

- 12** Interview: Ferro Döküm: "Exporting to five continents"
- 14** Interview: Your Innovative and Ambitious Solution Partner: Çemaş
- 16** Inductotherm Turkey's Innovative Product "Dura-Shell" Met with Esvana
- 18** The Global Meeting of Metallurgy Industry; Ankiros Fairs
- 20** A move from the Bilginoğlu Group: Investments are going on!
- 21** TUDÖKSAD Members Participation to CASTFORGE Trade Fair Quartet
- 22** TUDÖKSAD Academy Forges a Skilled Future with Comprehensive Vocational Training
- 23** TUDÖKSAD Foundry Congresses Ignite Innovations!
- 24** CHROMAFOR E-Learning Platform: A New Way to Learn Circular HR Management in the Foundry Sector
- 26** TUDOKSAD Members

İNDEKS

Cosmodot 11, Ferro Döküm 3, Foseco 31, Hannover Messe Ankiros 5, Inductotherm 17, Kromaş 7, Kutes Metal 32, Marmara Metal 2, Mesa Makine 25

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Better surfaces for life...



Turkey's Metal Casting Production Exceeded 3 Million Tons in 2022

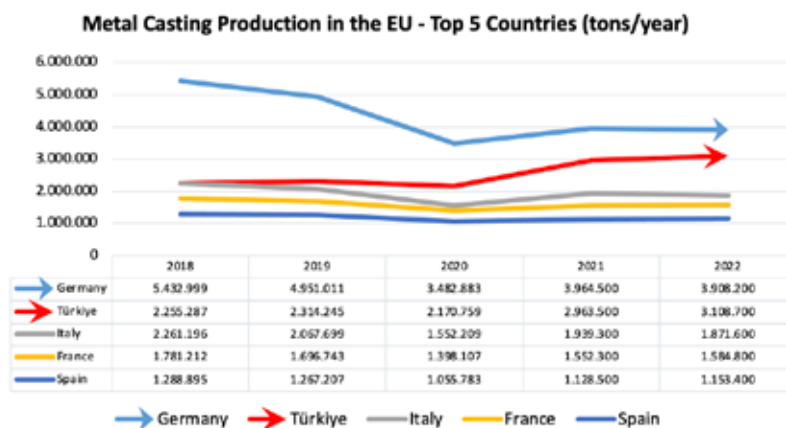
Turkish metal casting industry produces a wide range of parts for dozens of sectors, from construction to automotive, from mining to aerospace, from parts as light as 1 gram to parts as heavy as 300 tons.

The sector has recently achieved record levels of production and exports, taking advantage of opportunities such as increased demand in the European market and declining production in competitor countries. In 2021, total production increased by 36.5% to 2.96 million tons and

exports rose by 10% to EUR 4.5 billion. The capacity utilization rate of the sector also increased to 73%. In 2022, total production in the sector reached 3.1 million tons and the value of production increased by 41% to EUR 8.5 billion.

The export share of production

is around 70%. This shows the high competitiveness and quality of Turkish castings on the world market. The total production of castings in the European Union in 2022 was 14,509,000 tons including Turkey. Turkey contributed 3,108,000 tons, 21.4% of the EU production.



*Source: CAEF European Foundry Association



Turkish Metal Casting Industry Continues to Invest and Grow

The capacity utilization rate of the Turkish metal casting industry in 2022 was 72%, down 2% year-on-year. This decline was attributed to the orders for over 30 new production lines on the ferrous casting side and over 100 new production cells on the non-ferrous casting side

in Turkey in the last two years, and the high capacity increases experienced as these lines started to be commissioned. For the last 3 years, the Turkish foundries have been making significant machinery investments in order to meet the increasing demand for castings from abroad and orders for finished components/spare parts, and to comply with the new quality criterias.

Growth was mainly driven by increases in non-ferrous castings production. Non-ferrous castings production volume increased by nearly 13% to 740 thousand tons from around 650 thousand tons last year. On the ferrous side, gray cast iron production fell by 2% to around 900 thousand tons, while spheroidal cast iron (ductile iron) production increased by 7% to nearly 1 million 200 thousand tons.

TURKISH METAL CASTING INDUSTRY

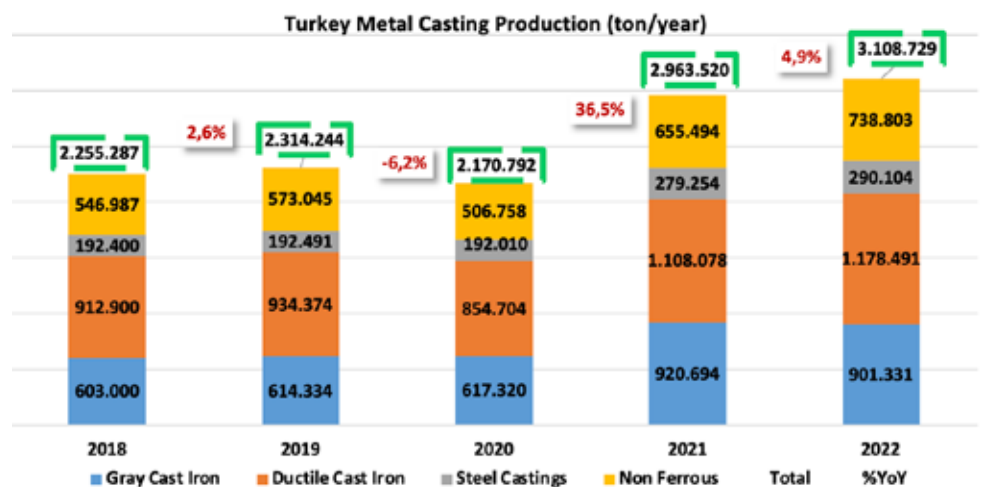
Facts & Figures (2022)

3.108.182 tons of castings

8.5 billion Euros of total sales

6.4 billion Euros of export

4.5 million tons of production capacity



*Source: TUDOKSAD Turkish Foundry Association



As a result of the transition to electric and hybrid vehicles, the goal of producing vehicle bodies with fewer components using high-pressure aluminum die-casting techniques and ultimately producing them as a monolith, instead of producing them piece by piece and joining them together with rivets, welding or other methods, offers a radical solution that will provide significant savings to the world's manufacturing industries. While these activities create an extraordinary growth potential for the field of aluminum metal casting, high-capacity die casting cell investments are increasing day by day. In 2022, steel casting production amo-

unted to 290 thousand tons, showing an upward trend of 4%. The main drivers were gridin demand from the general machinery sectors on a balanced domestic and international basis, and growth trends in the mining and energy sectors. Exports increased by nearly 36% to 225 thousand tons and the export ratio rose nearly 30% to 80%.

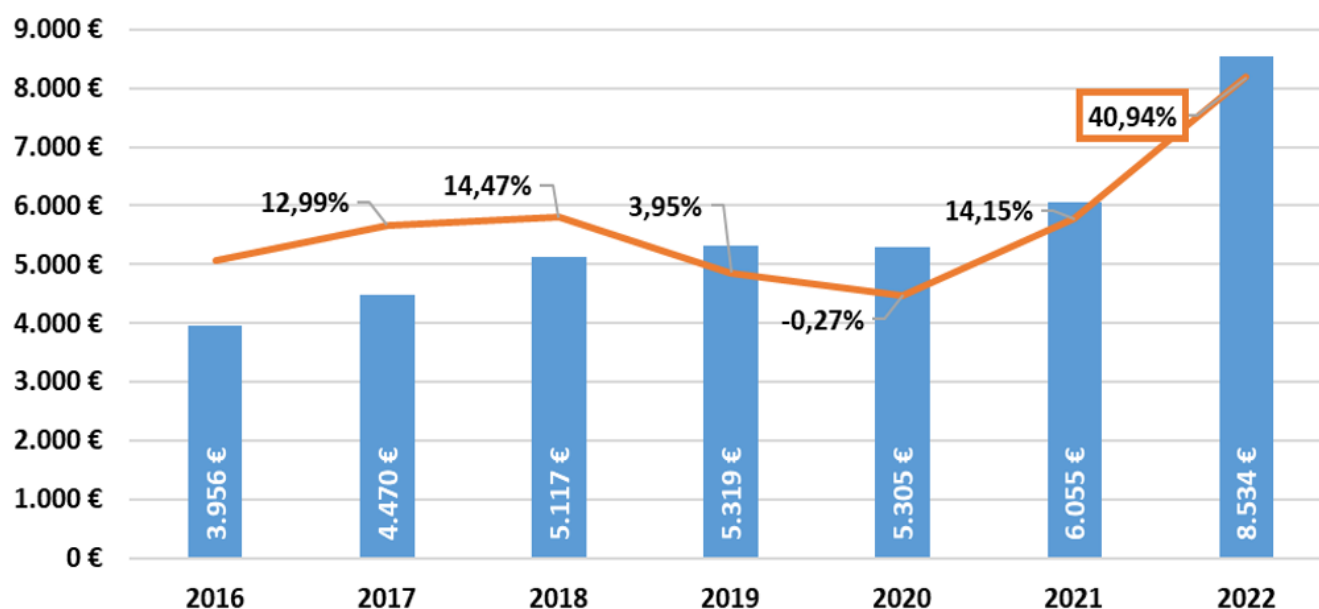
Turkish foundries are updating their business models to stay competitive by adopting the latest innovations and technological breakthroughs while adhering to environmental regulations and Sustainable Production Strategic Road Maps. This approach not only

enables them to develop customized solutions for their customers but also ensures that they are contributing to sustainable production practices.

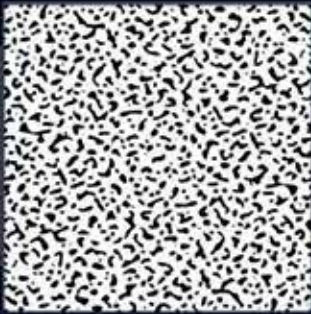
In addition, since many production elements such as 3D sand and metal additive manufacturing processes, core production, solidification processes, workflows, instant monitoring of costs are interconnected with digitalization and Industry 4.0 systems, it is of great importance that the goal of transforming into a "Smart Foundry" is at the top of the strategic plans of all foundries.

TUDOKSAD The Turkish Foundry Association

Change in Value of Casting Production (x10⁶)



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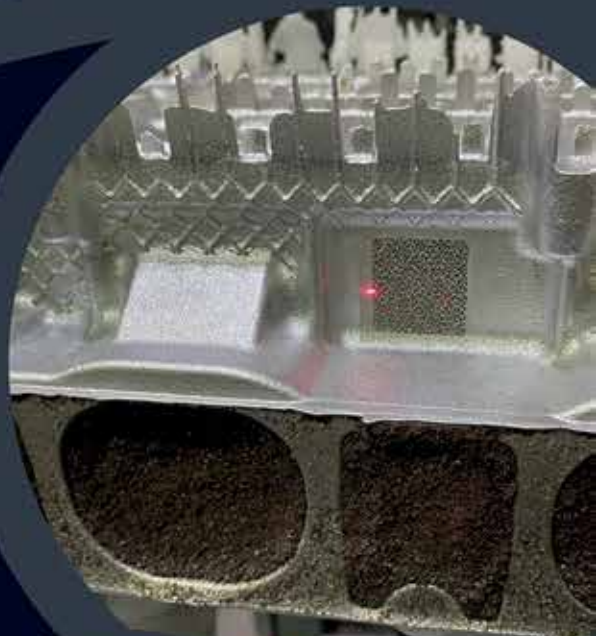
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Exporting to five continents

We talked with Selen Ebra Efe, Head of Strategy Office of Ferro Döküm, one of the leading companies in the Turkish foundry sector, which will be hosting visitors at Castforge, about the company's developments and new investments.

Could you tell us about the important milestones since the establishment of Ferro Döküm, which has a long history in the foundry industry?

With its state-of-the-art production lines with different capabilities, Ferro Döküm offers a wide range of high quality casting parts catering to the needs of different markets.

Ferro Döküm is one of the leading and pioneering companies in its sector; The first ministry-approved R&D center, the first ERP user (late 1980s), the first ISO 56002 Innovation Management System certification, the first casting simulation user (late 1990s), and the first and only independent R&D foundry.

We can respond to all the needs of the market effectively and quickly with our advanced R&D capability, high know-how, a competent and experienced team and a roll-up-your-sleeves attitude. With our agile management and over half a century of experience, we manage investment needs and feasibility studies

correctly and quickly. Recently, we have been implementing investments to increase product and service quality, efficiency and sustainability.

Could you tell us about Ferro Döküm's production and technological infrastructure, especially the investments made in recent years and your future targets?

Our main investments made in the last five years are into; automation developments, robotic solutions, digitalization, machinery park renewals, increasing machining capacity and capability, additive manufacturing technology (3D Sand Printer) and renewable energy.

Our most important and biggest project among our future goals is to establish a new state-of-the-art, lean and sustainable foundry equipped with the latest technology in a new location outside our current location, where we will reflect our experience of over 50 years (FERRO DÖKÜM 2).



Selen Ebra Efe
Head of Strategy Office



As a leading and pioneering foundry in our industry, our greatest motivation is to develop and present our position as a reliable, competitive, competent and sustainable solution partner to our customers in the future.

Can you give information about your exports (countries and sectors)?

We currently export more than half of our sales directly to customers in five continents. Of our remaining domestic sales, half goes directly to our customers Warehouse and is also exported through our customers. We serve customers in the heavy and light commercial vehicles, agriculture, hydraulics, construction and rail systems industries and work as Tier 1 and 2 to most OEM's.

In 2021 we started our American company Ferro Castings LLC to Warehouse and better serve our customers in the North American market. We are looking forward to doing the same in the following years in Europe, to give better assurance to our European customers supply chain security.

You are participating in CASTFORGE, one of the meeting points in the foundry sector, what will your visitors encounter at the Ferro Döküm stand?

We will be excitedly waiting for all contacts, customers and prospective customers at our stand with our experienced Sales team who are ready to listen and understand their needs, provide explanations on our capabilities whether it be through word of mouth, 3D pictures and other materials, and find agile solutions

in order to start or strengthen our partnerships. We will also have on stand by technical staff to help go in depth to any technical queries our guests may have, as well as operational staff to receive any non-sales related queries and ensure it reaches the related contacts and divisions in our company.





Your Innovative and Ambitious Solution Partner: Çemaş

Alp Işık, Sales and Business Development Manager of Çemaş/Işıklar Döküm Pazarlama A.Ş., shares the history, investments and targets of Çemaş.

Could you briefly tell us about the important milestones since the establishment of Çemaş, which has a deep-rooted history of 50 years in the foundry sector?

There is no doubt that 1995 was an important year, we can say that Çemaş, which was established for supply-oriented grinding media production for the Turkish cement industry, joined Işıklar Holding within the scope of privatisation and benefited from the experience and way of doing business of an institutionalised, well-established industrial company, which brought Çemaş to its current position. In 2000, Çemaş started to produce parts, and in 2008, as a result of sector surveys and strategic meetings, the first CNC machining centres were commissioned and Çemaş took an important step in order to increase customer satisfi-

on and the added value created in parts production as well as being Turkey's leading grinding media producer. In 2010, Çemaş was publicly listed and while strengthening its financial structure against all kinds of economic risks in domestic and foreign markets, it also started to benefit from the conditions required by the public offering. In 2020, Çemaş started investments in quality systems, CNC machining centers, new casting lines, solar power plants (installed 6 MW, additional 13 MW planned to be commissioned by the end of 2024), cataphoresis plant and MES systems, and continued to be the leading foundry of our region while stepping into industry 4.0 in the context of vertical integration and value added increase targets, by commissioning the investments one by one.



Alp Işık
Sales and Business
Development Manager

Could you give us some information about Çemaş/Işıklar Döküm's production, technological infrastructure, especially the investments made in recent years and your future targets?

As Çemaş/Işıklar Döküm, we have a production capacity of 50 thousand tonnes per year. We have a 57 CNC machining facility that enables us to manufacture customer parts and our own models, a state-of-the-art cataphoresis facility with wet/powder/cataphoresis coating capabilities, precise and robotic quality control technologies including X-ray and 3D scanning for advanced quality measurements, and a solar power generation facility that will add 6 MW at the moment and 13 MW by the end of the year. In recent years, we have invested in new melting furnaces, horizontal and vertical moulding lines, new CNC machines, automatic grinding machines, sand regeneration plant, cataphoresis plant and MES system software/hardware. Especially with MES, we have made a tremendous technological breakthrough in which we will collect and process the data coming out of our factory with image processing software containing artificial

intelligence technologies. The common ground of all these investments points to our future goals; to increase our export-oriented, value-added parts production, in which we are a solution partner with the customer, together with grinding media production, to continuously modernise and improve our processes with industry 4.0 methods, and to reduce our carbon footprint by increasing our recycling rate and energy efficiency. We are proud to see that we are taking steps that prove our accuracy every day with the value-added parts approvals from our main customers from the automotive and agricultural machinery industry, who aim for lean production lines and whose environmental awareness is increasing day by day.

Can you give information about your exports (countries and sectors)?

We export our parts production mainly to the European market. We are the suppliers of leading automotive, machinery industry and white goods manufacturers in countries such as Italy, UK, Germany, France and Poland. Our relations with our customers turn into value-added solution partnerships

with our investments and well-versed engineering team. In grinding media exports, we supply to the Middle East and Central Asian countries as well as Europe. As Işıklar Group, we have an export target of 50 per cent in each of our companies, and as Çemaş/Işıklar Döküm, we are taking firm steps towards this target every year.

You are exhibiting at CASTFORGE, one of the new meeting points in the foundry sector, what will your visitors see at the Çemaş/Işıklar Döküm booth?

When a deep-rooted family tradition meets with a customer and solution-oriented, professional staff, with the right strategic investments and sustainable future vision, they will see how innovative and ambitious a manufacturer and solution partner can come out of Turkey in the foundry sector, decorated with the red of the casting fire, with our smiling faces and treats. As Çemaş/Işıklar Döküm, we wish a good fair to all companies, institutions and sector stakeholders participating in CASTFORGE, we are waiting for everyone at our stand and we thank TURKCAST family for this pleasant interview.





Inductotherm Turkey's Innovative Product "Dura-Shell" Met with Esvana

Inductotherm commissioned the system operating with 750+150 kW Dual Trak Plus and 2x1.5 tonne cast iron capacity Dura-Shell furnace in Esvana company.

Esvana Industry continues to make a name for itself with more than 30 years of experience in the valve industry. The company provides a wide range of services from butterfly valves to demount parts, from gate valves to check valves.

Inductotherm has realised the best example of its customer satisfaction oriented works with Esvana company. Inductotherm's 750+150 kW Dual Trak Plus and 2x1.5 tonne cast iron capa-

city Dura-Shell furnace system, which was commissioned by Inductotherm, stands out both with its performance and customer satisfaction.

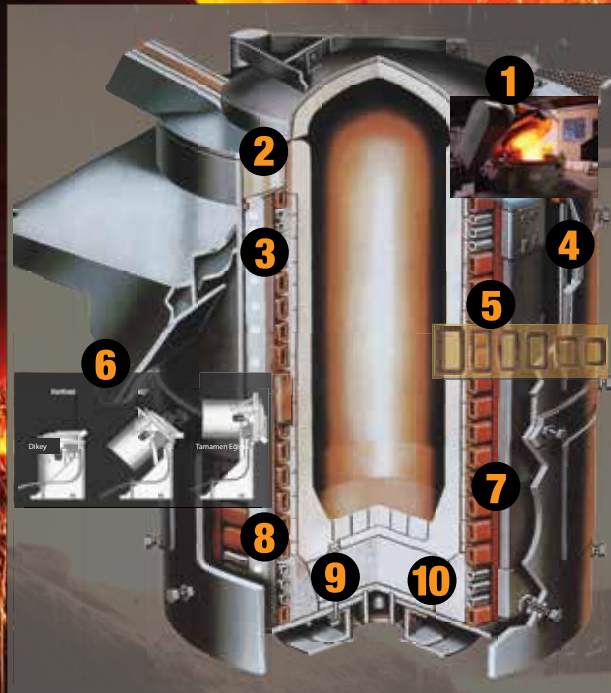
Among the main reasons for choosing the new product, features such as durable steel body structure, low EMF emission and water-cooled energy cables provide ease of maintenance, while at the same time providing long-lasting use by reducing wear. Dura-Shell furnaces with different capacity

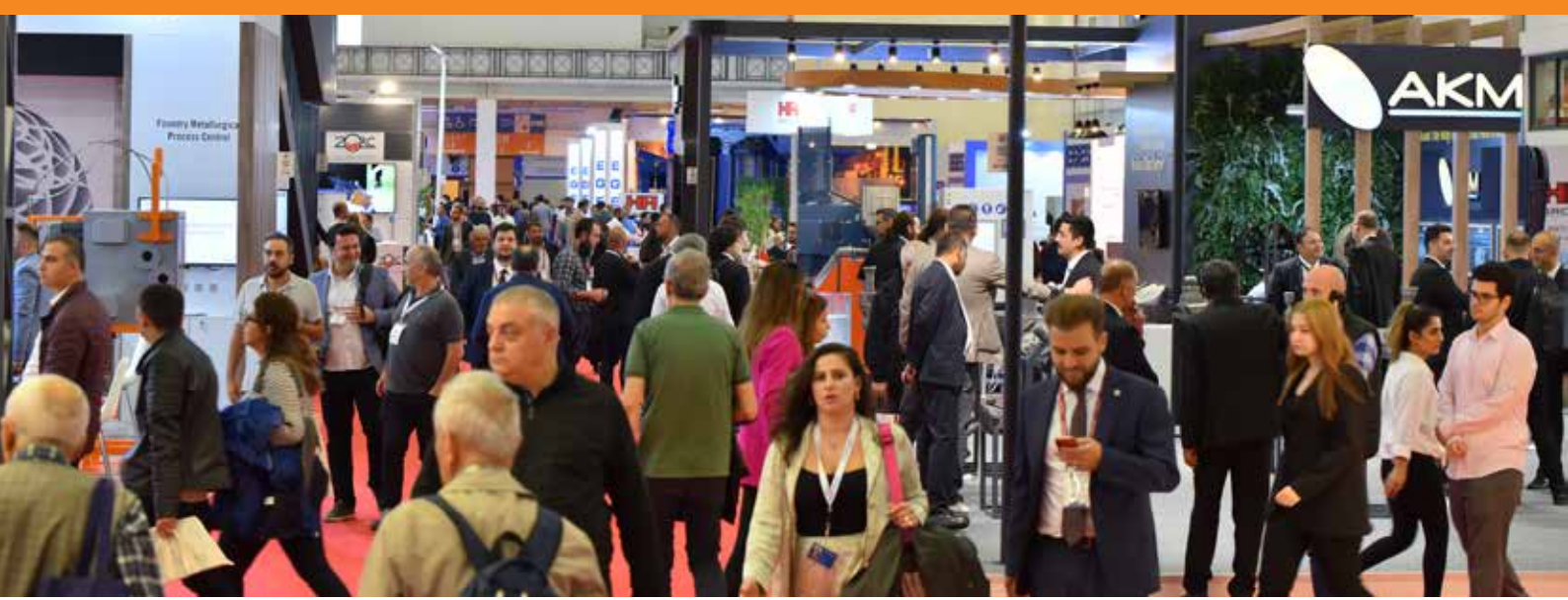
options support efficiency and high production capacities.

Inductotherm's new high-performance solution not only provides customers with a more efficient, reliable and economical option, but also demonstrates the company's commitment to continuous technological innovation and maximising customer satisfaction. Customers' trust and support for the company also plays an important role in this success.

World's Leading Manufacturer of Induction Melting Systems**The Competitive Advantage You Can See**

- 1** High-efficiency close-capture fume hood with cast refractory steel dome to minimize heat loss
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- 3** Cooling coil sections at the top and bottom of the power coil provide cooling and uniform temperature gradients for extended lining life
- 4** Rigid coil stabilizer system with advanced composite materials to enhance and extend lining and coil life
- 5** Properly selected copper tubing with optimum cross section for maximum performance designed for your application
- 6** Superior side lead arrangements to increase safety/saving with their strategic location and arrangement
- 7** Rigid magnetic shunts (flux concentrators) to support/extend coil and lining life, improving melt efficiency and reducing stray EMF emissions
- 8** Proven "free breathing" coil design using thick-walled, oxygen-free high-conductivity copper tube for maximum power efficiency
- 9** Ground Leak Detector System provides warning of metal penetration to the coil
- 10** Pre-cast, pre-fires refractory shapes to customize the refractory to your application for ease of maintenance

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GLOBAL INTEGRATION OF METALLURGY INDUSTRY; ANKIROS powered by “The Bright World of Metals”

Eurasia's largest Metallurgy Platform, ANKIROS 2024 - 16th International Iron-Steel, Casting, Non-Ferrous Metallurgy Technologies, Machinery and Products Trade Fair, will be organized in the new fairground with TURKCAST-Casting Products Special Section, ANNOFER-Non-Ferrous Metallurgy Technologies Special Section and STEEL Special Section at Istanbul Expo Center in halls 2,3,4,5,6,7 and 8 between 19-21 September 2024.

Supported by TUDÖKSAD -Turkish Foundry Association, TÇÜD-Turkish Steel Producers Association and UCTEA Chamber of Metallurgical and Material Engineers, ANKIROS 2024, which is the only meeting place in Turkey for companies seeking high quality in the metallurgy industry, aims to bring new markets, new customers, and international relations to its exhibitors. It is a unique platform to introduce the Turkish Metallurgy World to international companies that want to develop, pro-

mote their products to target audiences, protect and strengthen their current sales and business connections, create competitive conditions, and invest in the Turkish market!

Number from ANKIROS 2022;

The 2022 edition of ANKIROS was a great success as 1048 exhibitors from 45 countries, 18.786 industry professionals from all around the world gathered on the 23.582m² net

stand area.

Stand reservations of the leading suppliers to foundries are progressing faster than ever for ANKIROS 2024 which are gaining more and more corporate attention. Once again ANKIROS will play an important role in the metallurgy industry and bring great business opportunities. ANKIROS 2024 stand areas are sold out in over 27.000 sqm and ready to add a new hall to meet the demand from the sector.



Concurrent Congresses

22nd International Metallurgy and Materials Congress

Organized by METEM – UCTEA Chamber of Metallurgical Engineers Training Center

IMMC provides a great platform to collaborate with industry and academics to share ideas, develop and build partnerships.

www.metem.org.tr

12th International Foundry Congress

Organized by TUDÖKSAD – Turkish Foundry Association

The purpose of the congress is to ensure that the knowledge and experiences related to academic, technological, economic, commercial, and practical studies related to the casting industry are transferred to the participants and that common issues are shared mutually.

www.akademi.tudoksad.org.tr

TURKCAST Special Section

Turkey; the reliable castings supplier;

The increase in the production figures of the Turkish casting industry with the advantage of its geographical location, its up-to-date technology and rapidly developing knowledge show how important Türkiye is in casting exports.

TURKCAST, being the meeting point of the Turkish Casting Industry, has reached to an important point in the world, offers its visitors the opportunity to gather with reliable Turkish foundries. TURKCAST Special Section focuses on foundry products which are produced with different casting technologies, for the developing industries, from heavy industry looms to agricultural machinery, from shipbuilding to automotive, from construction to urban planning, from transportation to heating and many more industrial fields. The increase in the production figures of the Turkish casting industry with the advantage of its geographical location, its up-to-date technology and rapidly developing knowledge show how important Turkey is in casting exports.

Why Turkish Foundry Industry as a Supplier?

- Modern, experienced, competitive facilities with latest technology.
- Younger, educated and qualified labor from 80 million population.
- The ability and experience to struggle and survive against stage of recessions and crises.
- Export enthusiasm and experience of knowledge.
- Geographical closeness to European industry zones.

STEEL Special Section

Being in a very important status of Turkish exports; The steel industry, will meet at ANKIROS in larger hall with the support of TÇÜD Turkish Steel Producers Association. In addition to the international suppliers, the leading producers of the iron and steel industry and steel service centers will have the opportunity to exhibit their developing technologies, services and products in the special iron and steel hall. Do not miss the opportunity to be in this unique meeting point, which is the heart of the Turkish steel industry.

ANNOFER Special Section

Non-Ferrous metals section focuses on the facilities and equipment required for the production and forming of non-ferrous metals. All kinds of machinery and equipment needed for metallurgical facilities, rolling mills and raw material processing will be displayed in this area.

Do not miss the chance to visit ANKIROS and be informed of the latest technology and developments, finding new investors and suppliers, making new business connections to share different experiences in the Metallurgy Industry.



A move from the Bilginoğlu Group: Investments are going on!

Having sped up its operations in order to enlarge its product and market range, the Bilginoğlu Group keeps its growth without slowing down.

Having maintained its existence in the industry through multi-directional services since 1973, Mr İsmail Bilginoğulları, Chairman of the Board of Directors of the Bilginoğlu Group, said, “We supply raw materials and auxiliary materials to all iron and non-iron foundries and steelworks in Europe, Middle East and Northern Africa, including pre-eminently Türkiye, through our company BDM Bilginoğlu Döküm. We provide sales, calibration and technical services for quality control equipment through our company Bilginoğlu Endüstri and special projects-automation applications through our company BMS Bilginoğlu Makine. We provide more than 150 people with employment. We provide services through our storerooms and offices at positions closest to our customers. We keep growing with five offices and showrooms established at İzmir, İstanbul, Bursa and Ankara plus a storeroom, calibration laboratory and repair-and-maintenance facility established at Ulucak/İzmir and a storeroom, offi-

ce, showroom and manufacturing facilities which we plan to put into operation as a Yalova İmes investment in a near future.”

Reminding the they started to quickly regain their losses at the beginning of this year after the pandemic, Mr Bilginoğulları said, “We target to close 2023 as one of the leading companies of the sector.”

Saying that they make investments in order to enlarge the area of competence of the Bilginoğlu Calibration Laboratory (BCL), Mr Bilginoğulları said, “Besides, we have started a new investment on an area of 10.000 sqm at Yalova İmes. We keep enlarging our product range through our new products. We target to widen our current export businesses with our neighboring countries through the countries of Northern Africa, Middle East and Eastern Europe, thus increasing our turnover in 2023.”

Emphasising that the construction at Yalova İmes shall be completed in 2023, Mr Bilginoğulları defended,

“This new facility bears so great an importance for our several goals for the future. We target to enlarge both our calibration laboratory and our maintain-and-repair facility for the after-sales services of the products and systems which we have just included into our sales portfolio. It is shown that unforeseeable and almost always changing hitches in the supply chain which have been the greatest problem of our sector in the recent years shall be continuing in the forthcoming years as well. The solution to these problems lies in the fact that any production activities which shall reduce our external dependence should be materialised in our country.”

Mr. Bilginoğulları completed his words as follows: “We keep our investments at full speed and with full energy in order to ensure the sector’s compatibility with Industry 4.0 and to be able to have more say in the industry of Türkiye. Therefore, we should follow but never stay away from the latest technology very closely.”

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TÜDÖKSAD Academy Forges a Skilled Future with Comprehensive Vocational Training

TÜDÖKSAD The Turkish Foundry Association is shaping the future of the industry with the TÜDÖKSAD Academy, a dedicated hub for comprehensive vocational training programs. Since 2015, it is organizing monthly training activities and annual foundry congresses (International & National) which aims to improve the knowledge of foundrymen and attract young people.

From mastering the basics of foundry processes to exploring the frontiers of automation and digitalization, the Academy offers a diver-

se curriculum that caters to every stage of a foundry professional's journey. The Academy's impact extends beyond technical expertise. It instills a culture of safety, a dedication to sustainability, and a passion for continuous learning, ensuring that the Turkish metal casting industry remains both competitive and future-proof.

Additionally, the online education platform Dökümhane Academy (<https://dokumhane.net/>), which TÜDÖKSAD has been directing the content production and promotio-

nal activities since the beginning of 2019, offers free educational materials and short interviews with young metal casters that presents the foundry industry to the students interested in casting.

TÜDÖKSAD also offers training programs and internship opportunities for professional development. As the new generation is looking for opportunities to learn and develop new skills, TÜDÖKSAD concentrates all its efforts on this field and changing the perception of our industry.



TÜDÖKSAD Foundry Congresses Ignite Innovations!

TÜDÖKSAD has been organizing the International Foundry Congress every two years since 1999, and the National Foundry Congress every two years since 2017. The congresses aim to bring together leading international and national experts, researchers, and industry professionals in the field of metal casting.

Istanbul's ancient furnaces will soon be joined by a modern melting pot of ideas as the city prepares to host the 12th TÜDÖKSAD International Foundry Congress on 19-21 September, 2024, alongside the Ankiros Turkcast trade fairs. The three-day event promises to be a crucible of knowledge and collaboration, attracting foundry professionals from around the world to share in-

sights, ignite the innovation and shape the future of the industry.

Attendees can expect a rich program featuring keynote speeches, panel discussions, and technical sessions focusing on the latest advancements, trends, and challenges in foundry technology. They will have plenty of opportunities to network with peers, establish collaborations, and engage with industry leaders. The congresses aim to foster a collaborative environment that promotes knowledge-sharing and the development of new partnerships.

Turkey, with its rich history in metallurgy and metal casting, serves as an ideal hub for this prestigious event. The congress will highlight also Turkey's contributions to the glo-

bal foundry sector and emphasize its commitment to excellence in foundry engineering.

With its captivating blend of knowledge-sharing, collaboration, and cultural immersion, the TÜDÖKSAD Foundry Congresses are poised to be a pivotal event for the global foundry community. Mark your calendars for 19-21 September 2024 and prepare to take your foundry journey to another level in Istanbul!

The Congress Program is announced to be soon.

Follow the updates at akademi.tudoksad.org.tr website and TÜDÖKSAD social media accounts!



The poster features a blue and orange geometric background. At the top left is the European Union flag logo with the text 'Bu proje, Avrupa Birliği Erasmus+ Programı kapsamında finanse edilmektedir.' At the top center is the logo of 'TÜRKİYE DÖKÜM SANAYİCİLERİ DERNEĞİ' (THE TURKISH FOUNDRY ASSOCIATION). The main title 'CHROMAFOR' is in large blue letters with a red sunburst icon between 'CHR' and 'MAFOR'. Below it is the subtitle 'Metal Döküm Sektöründe Döngüsel Ekonomi Yönetimi' and the project code '2020-1-ES01-KA202-081908'. On the right, a small photo of a man is visible. The main text 'E-ÖĞRENME PLATFORMU TANITIM SUNUMU' is in large white letters. At the bottom right, a white box contains the date and platform: '25.07.2023, ZOOM'.

CHROMAFOR E-Learning Platform: A New Way to Learn Circular HR Management in the Foundry Sector

CHROMAFOR E-Learning Platform, that both individually and collectively applicable, provides an opportunity for the implementation of a new Human Resources Management Model aimed to improve the current skills and competencies of foundry employees in line with the circular principles.

The CHROMAFOR E-Learning Platform, a web-based learning and knowledge sharing platform for circular human resources management in the foundry sector, was officially launched in March, 2023. The platform is one of the main outcomes of the CHROMAFOR project, funded by the European Union under the Erasmus+ programme.

The CHROMAFOR project aims to develop the skills and competencies of human resources managers and staff in the metal casting industry, in order to promote the adoption of circular economy principles and practices in their operations. Circular economy is an economic model that aims to reduce waste and environmental impact by keeping resources in use for as long as possible, and recovering

and regenerating them at the end of their service life.

The CHROMAFOR E-Learning Platform offers six modules that cover the basic technical and environmental concepts, the relevant laws and regulations, the environmental management systems and sustainability, the circular economy strategies, the circular economy assessment and measurement, and the circular economy communication and dissemination in the foundry sector. Each module consists of lessons, exercises, resources and videos that help the learners to acquire the knowledge and skills needed for a circular human resources management in foundries.

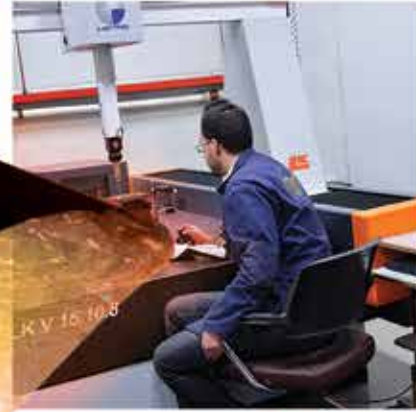
The platform is free and open to anyone who is interested in learning more

about circular economy and its application in the metal casting industry. The platform is available in four languages: English, Turkish, Spanish and Italian.

The CHROMAFOR E-Learning Platform is expected to contribute to the improvement of the environmental performance and competitiveness of the foundry sector in Europe, as well as to the enhancement of the employability and career prospects of the human resources professionals in this sector.

Turkish Foundry Association (TUDOKSAD) is one of the partners of the CHROMAFOR project.

For more information, please visit the project website <https://chromafor.eu/>



AUTOMOTIVE
HYDRAULIC SECTOR
DEFENSE INDUSTRY
RAIL SYSTEM INDUSTRY



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Erkon Döküm	Akdaş Döküm	Bilge Döküm	DMS Denizli Döküm	Haytaş Döküm	Kutes Metal	Rolmak Döküm
İstikamet Döküm	Akpınar Döküm	Canbilenler Döküm	Doğru Döküm	Hekimoğlu Döküm	Mes Döküm	Sümer Çelik
Kondöksan Döküm	Alfa Döküm	Cer Döküm	Döktaş Dökümcülük	İğrek Makina	Mesa Makina	SYC Demir Döküm
Mert Döküm	Altan Makina	Çemaş Döküm	Dökümaş Döküm	İstanbul Döküm	Motus Otomotiv	Şahin Döküm
Odöksan (Elba)	Aral Döküm	Çolaklar Döküm	Ekstra Metal	Karaman Döküm	Odöksan (Elba)	Trakya Döküm
Payza Döküm	Ardemir Döküm	Daloğlu Döküm	Emin Yıldız Metalurji	Kardökmak	Önmetal	Tümosan Döküm
Samsun Makina	Atik Metal	Deniz Döküm	Entil Endüstri	Kaydöksan	Özgümüş Döküm	Ünsal Makine
Sefer Döküm	Ay Döküm	Denizciler Dökümcülük	Ertuğ Metal	Kaymakçılar Döküm	Özgür Döküm	Yazkan Döküm
Trakya Döküm	Ayzer Döküm	Dirinler Döküm	Gedik Döküm	Koçak Metalurji	Özgüven Döküm	Yılkar Döküm



TUDOKSAD Members

Steel Foundries & Production Areas

Cement & Earth Moving & Heat Treatment & Construction & Incineration & Railway & Pump & Valve Industries		Heavy Casting Foundries (Mining & Energy & Off-Shore & Marine & Iron-Steel)	Steel Shots & Grits
Akdaş Döküm	Kardökmak	Akdaş Döküm (+VOD)	Bünsa Döküm
Akmetal	Körfez Döküm	Akmetal (+AOD & EAF)	Çelik Granül
Altan Makina	Motus Otomotiv	Anadolu Döküm	Tosçelik Granül
Anadolu Döküm	Pınar Döküm	As Çelik	
Artı Döküm	Silvan Merdane	Cer Döküm	
Arsan Döküm	Silvan Sanayi	İğrek Makina	
As Çelik	Sümer Çelik	Kardökmak	
Aslankaya Döküm	Şenkaya Çelik Döküm	Silvan Sanayi	
Boran Çelik	Tan Çelik		
Cer Döküm	Yılkar Döküm		
Çukurova İnş.-Çimsataş			
Deniz Döküm	Bimetal Castings		
Dökümaş Döküm	Anadolu Döküm		
Duduoğlu Döküm	Duduoğlu Döküm		
Gedik Döküm	Hekimoğlu Döküm		
Gürsetaş Döküm	Körfez Döküm		
Hekimoğlu Döküm			
Hisar Çelik			
Işık Çelik			
İğrek Makina			
İstanbul Döküm			
Centrifugal Castings		Forging Facilities	Shot Blasting Machine Parts
Anadolu Döküm		Akmetal - Open Die	Ümit Döküm
Körfez Boru		Çukurova İnş.-Çimsataş - Closed Die	

TUDOKSAD Members

Associate Supplier Members

Coal Dust	Kadioğlu Madencilik
Bentonite	Amcol Mineral, Clariant, Ortadoğu Mineral, S&B End. - Haznedar Durer Refrakter
Foundry Sand	Çeliktaş, Kumsan, Silttaş
Melting Equipments	Doğuş Döküm, Eges, Inductotherm, İndemak
Simulation Softwares	ASK Chemicals TR, Magma Bilişim, Valans Mühendislik
Machining Equipments	Mega Elektronik, Tekno Metalurji, Tezmaksan
Trade Fair Services & Consulting	Hannover Messe Ankiros
Analysis & Measurement	BDM Bilginoğlu, Carl Zeiss, Heraeus Electro-Nite
Feeder & Resins & Coating & Filters	Altınkum Döküm, ASK Chemicals TR, Çukurova Kimya, Doğuş Döküm, Foseco TR, Metko Hüttenes Albertus, Zenmet
Raw Materials (Pig Iron)	Acarer Metal, Altınkum Döküm, Aveks, Marmara Metal, Mescier Metal
Consumables (ferro alloys, inoculants, abrasives, additives)	Acarer Metal, AKM Metalurji, Altınkum Döküm, ASK Chemicals TR, Aveks, BDM Bilginoğlu, Cango Endüstriyel, Deniz Döküm, Doğuş Döküm, Ekspert Mümessilik, Fetaş Metalurji, Harborlite Aegan Endüstri-İmerys, Katsimtaş, Korkmaz Çelik, Kromaş Metal, Marmara Metal, Mescier Metal, PTC Kimya, TMC Metal, Zenmet
Foundry Machinery (moulding, core shooting, sand preparation, pouring, fettling)	ELM Döküm Makinaları, Erdem Makina, Ekspert Mümessilik, İdeal Model, Kromaş Metal, Metal Pres, Meta-Mak Metalurji, Ortadoğu Mineral, Özen Makina, PTC Kimya, Tekno Metalurji, Tes-San Tesisat, Velacast, Wöhr Makine
Recycling	Er Metal
ERP Software	Bilişim, Doğuş Döküm
Industrial Process Fluids	Houghton Kimya
Aluminum Raw Material	GKR İnşaat ve Enerji, Heneken Metal, Yükseller Metal
High Pressure Die Casting Equipments	Bühler AG, Doğuş Döküm, Erdem Makine, Metal Pres, Velacast
Refractory	AKM Metalurji, Daussan Refrakter, EGT Refrakter, Haznedar Durer Refrakter, Katsimtaş, PTC Kimya, Zenmet
Foundry Dust Collection and Filtration Systems	Bomaksan, Meta-Mak, Nederman
Metal Impregnation	Maldaner Metal

TUDOKSAD Members

Non Ferrous Foundries & Production Areas

Sand & Gravity Foundries (Cu Alloys)	Sand & Gravity Foundries (Al Alloys)	Aluminum Alloy Wheel Producers
Deniz Döküm	Altun Döküm	Cevher Jant
Duyar Vana	Döktaş Dökümcülük	Döktaş Dökümcülük
Gedik Döküm	Deniz Döküm	Kormetal
İğrek Makina	Er Döküm	
İstanbul Döküm	İstanbul Döküm	
Kardökmak	Kağan Döküm	
Mes Döküm	Kardökmak	
Uyar Döküm	Mesa Makina	
	Nemak İzmir Döküm	
	Önmetal	
	Parsat Piston	
	Tunç Model Döküm	
	Uyar Döküm	

TUDOKSAD Members

Non Ferrous HPDC Fouandries & Production Areas

Automotive	White Goods	General Machinery (Defense, Energy, Building, Lighting, Other)
Adöksan Döküm	Ayhan Metal	Alcast Metal
Alcast Metal	Beyza Metal	Altun Döküm
Alümina Endüstri	Döktim Döküm	Ayhan Metal
Arpek Arkan	Endosa Kalıp	Beyza Metal
Ayhan Metal	Kalkancı Pres	Can Metal
Beyza Metal	Mita Kalıp	Döksan Basınçlı Döküm
Can Metal	Normsan	Döktim Döküm
Çelikel Alüminyum	Pek Teknik	Endosa Kalıp
Döksan Basınçlı Döküm	Prometal	Gürmanuç Metal
Döktaş Dökümcülük	Ruba Pres Döküm	Güven Pres
Döktim Döküm	Tuğçelik Alüminyum	Kağan Döküm
Endosa Kalıp	Tümser Ev Aletleri	Kalkancı Pres
Gürmanuç Metal	Uğur Metal	Mita Kalıp
Güven Pres		NormsanPek Teknik
Hema Otomotiv		Ruba Pres Döküm
Kağan Döküm		Şirvanlı Alüminyum
Kalkancı Pres		Tümser Ev Aletleri
Kırpark Otomotiv		Uğur Metal
Kormetal		Uyar Döküm
Mita Kalıp		
Nemak İzmir Döküm		
Normsan		
Pek Teknik		
Prometal		
Ruba Pres Döküm		
Süperpar Otomotiv		
Şahin Metal		
Teknopres Döküm		
Tuğçelik Alüminyum		
Tümser Ev Aletleri		
Uğur Metal		
Uyar Döküm		

TUDOKSAD Members

Investment Casting Foundries

Elit Metalurji
Gedik Döküm
Gür Metal
KHD Hassas Döküm
Kondöksan Döküm
Makim Makina
Orta Anadolu Yüzey Tek. Mak.
Serpa Hassas Döküm
Unimetal

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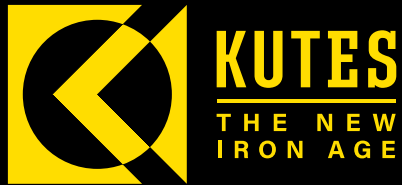
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