

# TURKCAST

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

EUROGUSS ■ SPECIAL ISSUE ■ JANUARY 2024



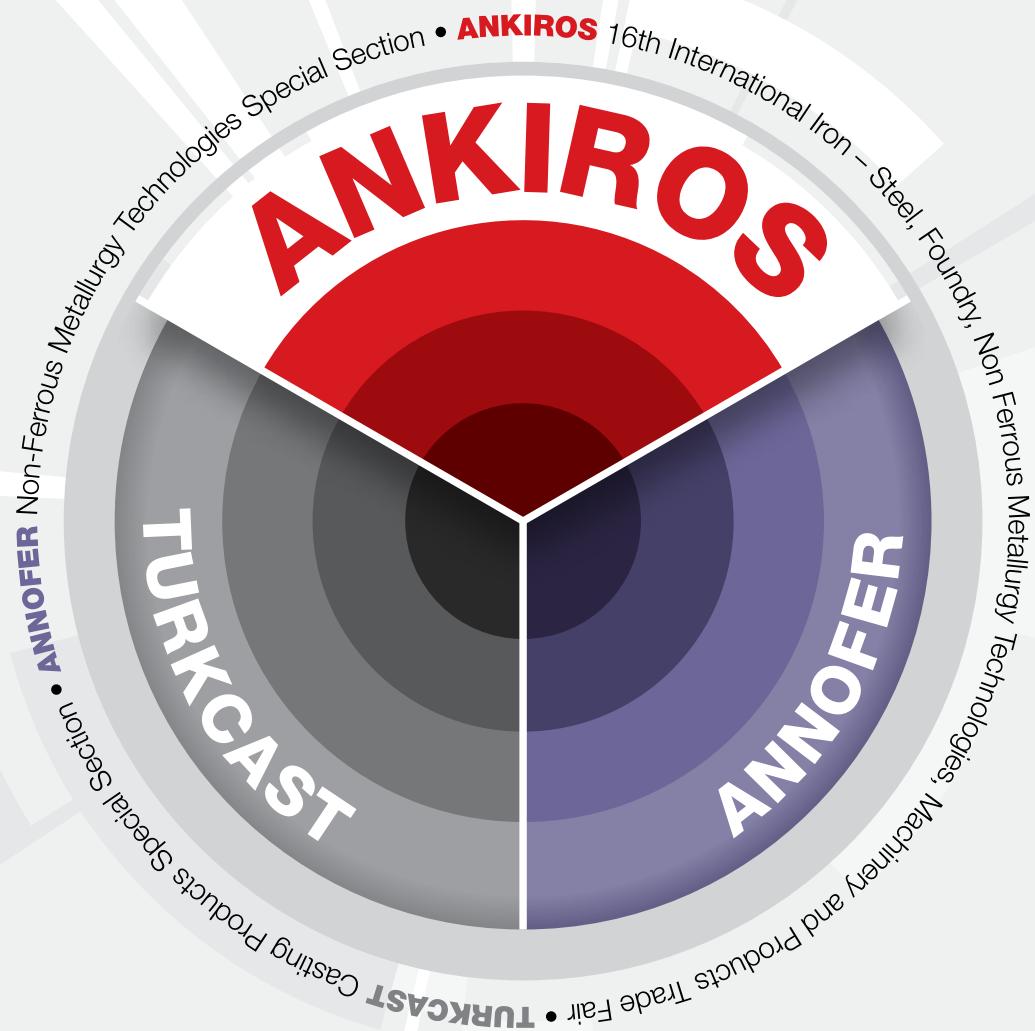
## Turkish Metal Casting Industry



### 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 EUROGUSS Trade Fair Quartet

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12<sup>th</sup> International  
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Shape the future.

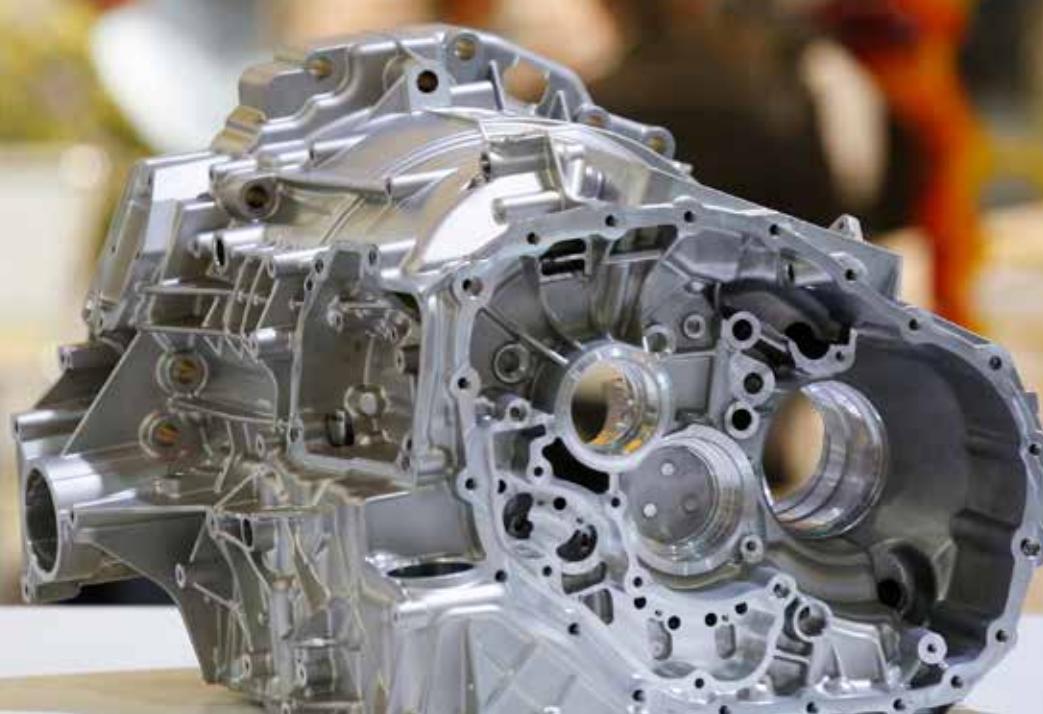


Foseco, uygulamada kaplama kontrolünü optimize etmek için tasarlanmış bir dizi ekipman geliştirmiştir.

ICU'yu hakkında daha fazla bilgi için tarayın.



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- \* Due to the low amount of aluminum oxide, mechanical properties of the aluminum increased up to 30%
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## Automatic Die Sprayer Robot (EMY-08 PLUS)

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- \* Industry 4.0 Compatible software and user interface
- \* Improved cycle times with simultaneous movement of both axes
- \* User manual panel for programming and pattern memory
- \* Oil transfer tank with filter system made of stainless steel
- \* Cycle monitoring and intervention with remote access feature



## TUR TYPE Aluminum Melting and Holding Furnaces

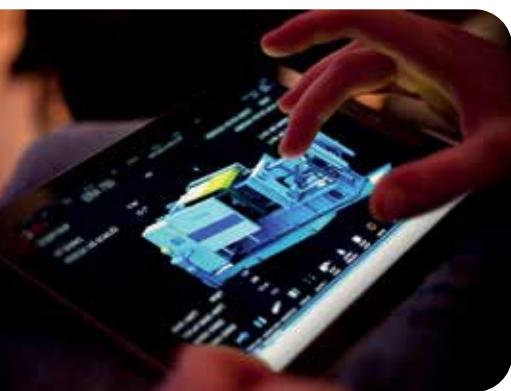
- \* Automatic loading
- \* Tilting or plug discharge system
- \* Low combustion loss ≤ 1%
- \* Proportional combustion control
- \* 650 kWh energy consumption per ton
- \* Shaft design that minimizes energy loss
- \* Laser control for chimney filling level control



# ERAPRES



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## Erapres User Interface Technology

- \* Siemens PLC or Beckhoff PLC
- \* Production data record system
- \* Continuous measurement and verification of process parameters
- \* Mold Memory system
- \* Communication infrastructure with all auxiliary robots and equipment
- \* Monitoring and rapid intervention with remote access
- \* Ability to adjust all system settings on the screen

## Erapres Mechanical Technology

- \* Automatic motorized operator and rear door options
- \* Corepull options for movable and fixed molds
- \* Automatic tie bar extraction system
- \* Automatic mold locking system
- \* Heavy mold carrier system
- \* Automatic ejector rod locking system

## Erapres Green Series Technology



- \* Up to 75% energy savings
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- \* Increased opening and closing speeds
- \* Low noise levels

## Erapres Injection Technology

- \* Speed, pressure and position measurement information at 2ms intervals
- \* Speed, pressure and position data table for each cycle
- \* Production process and efficiency assistant
- \* Opportunity to examine many additional data such as biscuit thickness, sleeve friction force, mold opening force and injection force, etc.

## Erapres Real-Time Technology

- \* Infrastructure suitable for Industry 4.0
- \* 10 phase definable injection control points
- \* High speed reaction servo valve controlled injection
- \* Special hydraulic blocks designed for fast reaction
- \* Reliable and repeatable performance
- \* Brake function to reduce flash, improve product surface quality and extend mold life





## Erapres Low Pressure Aluminum Casting Machines

- \* Liquid aluminum capacity between 700-1200 kg
- \* Adjustable melt temperature accuracy of  $\pm 2^{\circ}\text{C}$
- \* Automatic level correction
- \* Real-time graphic and tracking of casting
- \* Precise filling control
- \* Easy cleaning and maintenance with tilting furnace
- \* Low energy consumption
- \* Proportional controlled hydraulic system
- \* Automatic Part extractor
- \* Mold temperature control system
- \* Special design option for large size parts



VISIT WEBSITE



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

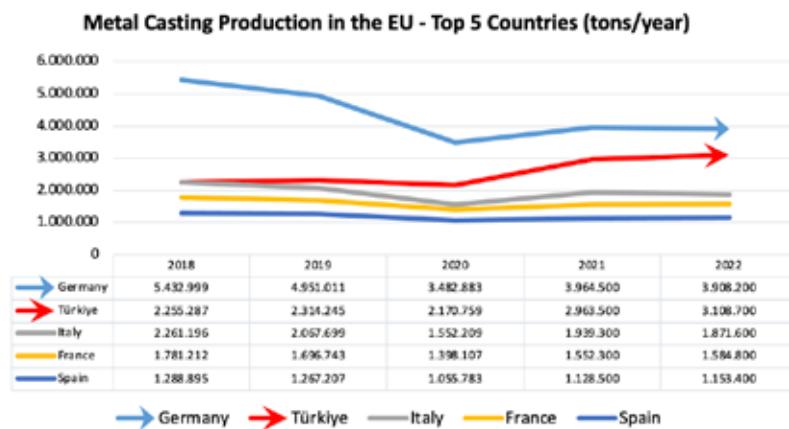
Turkish metal casting industry produces a wide range of parts for dozens of sectors, from construction to automotive, from mining to aerospace, from parts as light as 1 gram to parts as heavy as 300 tons.

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

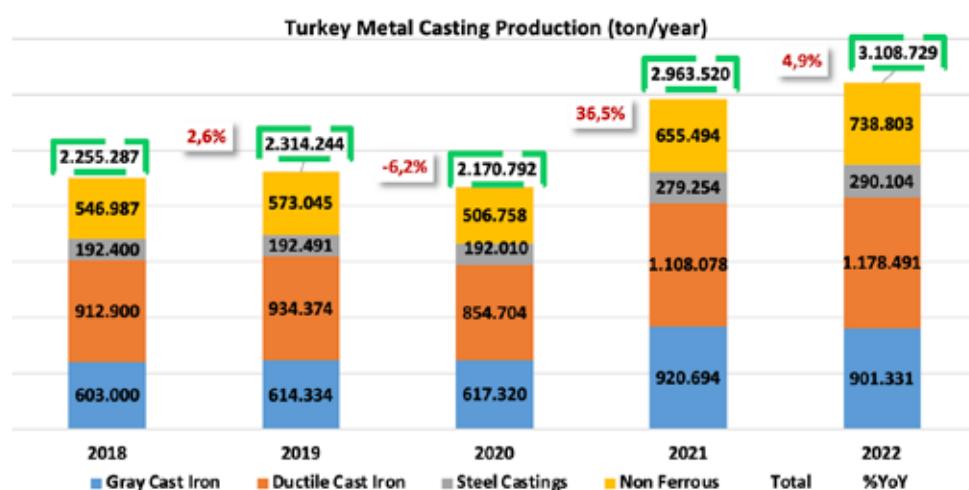
in Turkey in the last two years, and the high capacity increases experienced as these lines started to be commissioned. For the last 3 years, the Turkish foundries have been making significant machinery investments in order to meet the increasing demand for castings from abroad and orders for finished 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: TÜDÖKSAD 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%.

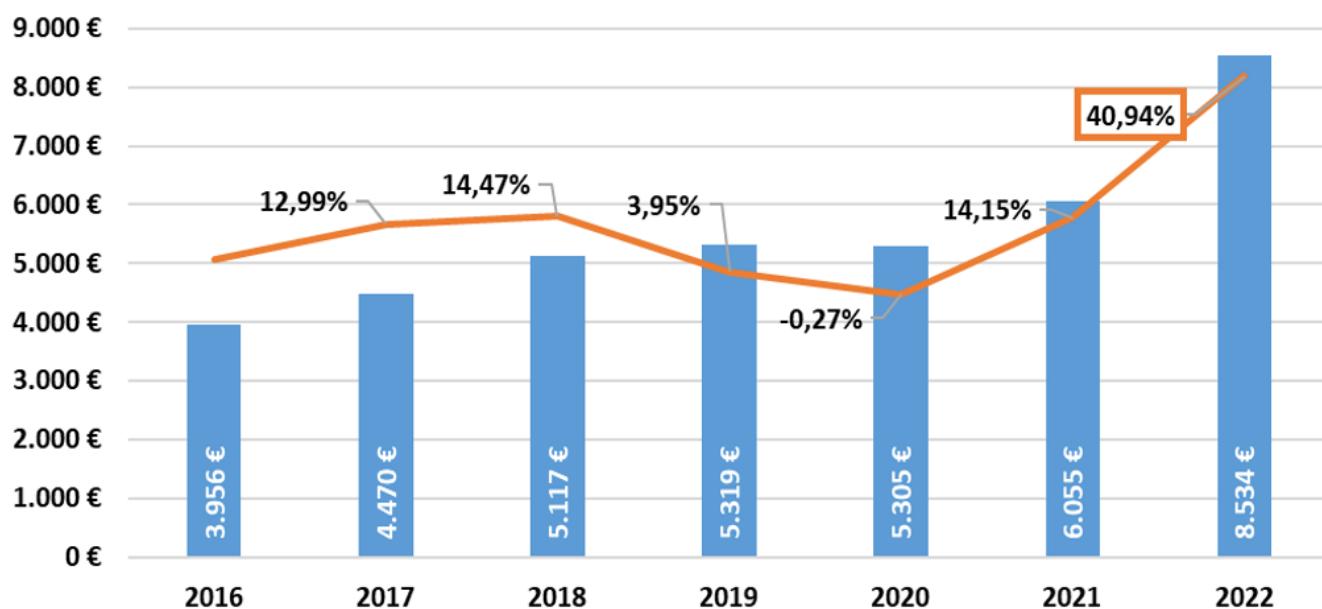
Turkish foundries are updating their business models to stay competitive by adopting the latest innovations and technological breakthroughs while adhering to environmental regulations and Sustainable Production Strategic Road Maps. This approach not only

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 (x10<sup>6</sup>)**



# TURKISH FOUNDRY INDUSTRY

"WE ADD VALUE TO METALS!"



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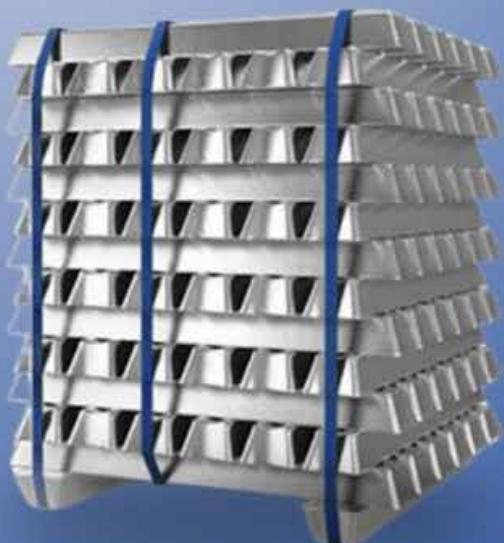
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# Turkish Die Casting Industry Unleashes Metal's Power!

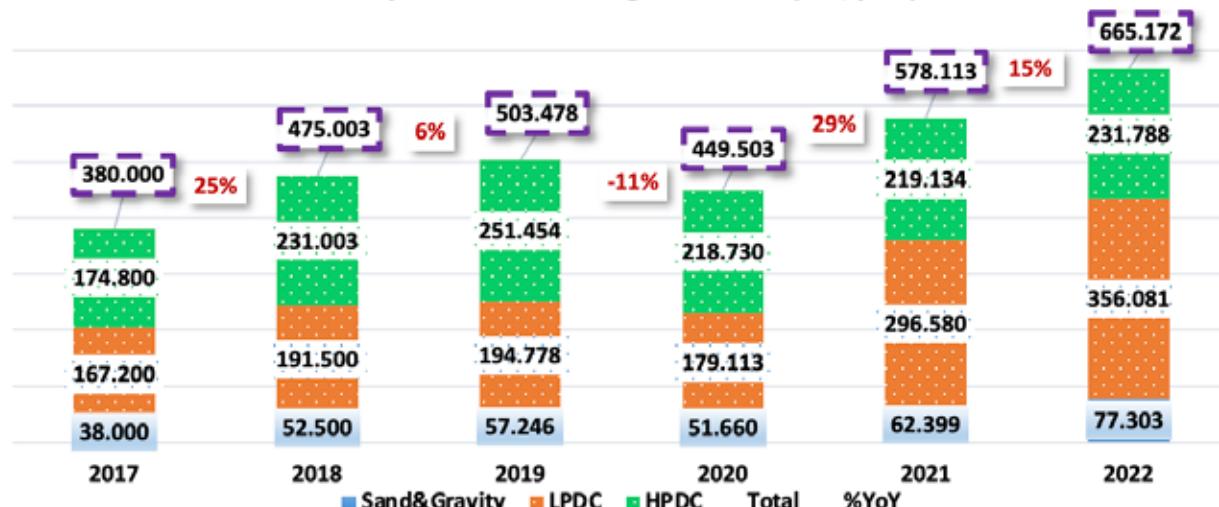
Since the beginning of the new millennium, Turkish foundry industrialists have embarked on a strategic journey, actively seeking opportunities in the dynamic European markets. Driven by the growing demand for aluminum castings from EU manufacturers, Turkish die casting foundries

have entered an era of innovation, investing significantly in state-of-the-art greenfield plants that align seamlessly with the goals of sustainable production.

In a remarkable departure from ferrous castings, die casting in Turkey is on an unprecedented growth trajectory. The 36 die

casting members of TÜDÖKSAD play a pivotal role, collectively contributing to the majority of Turkish production. In 2022, the total number of die casting shops reached around 308, with casting production totaling 665,930 tons—a 15% increase compared to 2021.

**Turkey Aluminium Casting Production (ton/year)**



\*Source: TÜDÖKSAD Turkish Foundry Association

Recent years have witnessed a remarkable acceleration in Turkey's casting production, driven by logistical advantages, cost-effectiveness, and a commitment to superior quality. In response to the surging global demand for castings, finished components, and spare parts, the Turkish foundry sector has strategically invested in cutting-edge machinery, replacing outdated, energy-intensive equipment.

While wheel production significantly enhances Turkey's die casting industry, there's significant growth in overall production volume. With a capacity utilization rate of 70%, Tur-

key excels in the production of cast aluminum wheels for OEM, OES and After Market (AM) companies. These high quality wheels find a competitive edge in the European market, with after market products exported worldwide.

Turkey, a thriving hub of the die casting industry, continues its growth trajectory, particularly in the automotive sector, with a diverse product range and advanced technology. The country remains committed to sustaining this momentum through continued investment. In addition, investments in the EV ecosystem are paying off, with the

domestic EV project TOGG becoming a key driver of progress.

As of 2022 research, Turkey has 1,254 high-pressure die casting machines and 32 low-pressure die casting machines (excluding wheel production). Agreements for more than 100 additional cells have already been signed, and with investments in 3,200-4,000 ton presses, these facilities are gearing up to cast structural and body-in-white parts for the electrification transformation of trucks and heavy vehicles.

The strategic investments in capacity expansion in the Turkish foundry sector set the stage for sig-

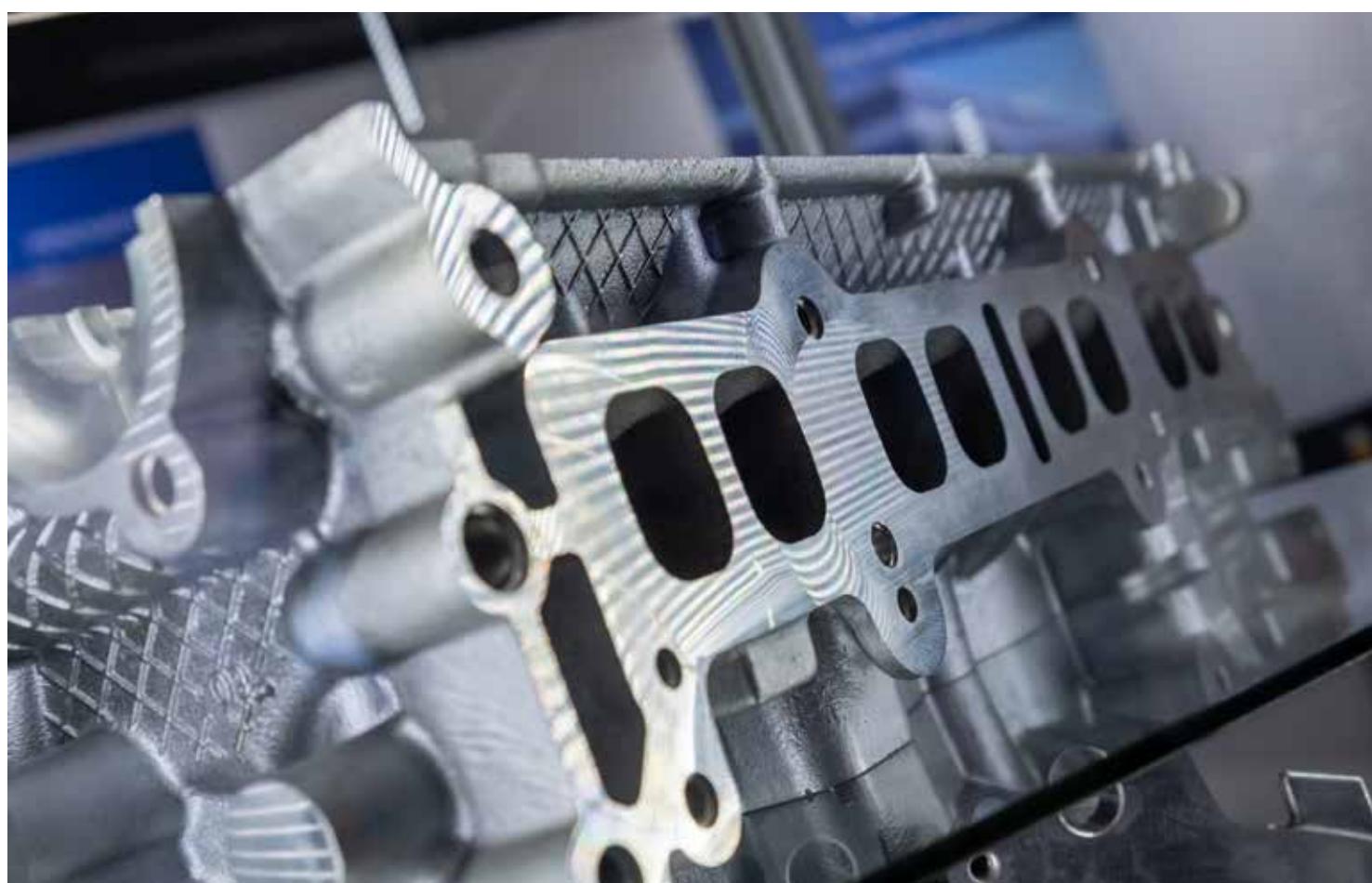
nificant growth in both production and sales over the next period. The industry's focus on sustainability, reducing its carbon footprint, digital transformation, ensuring reliability and repeatability, improving energy efficiency, and strengthening its position as a global leader in die casting will shape its future success.

\*Since 1976, TÜDÖKSAD (Turkish Foundry Association) has been at the forefront of ensuring the sustainable growth of the metal casting sector. In addition, the TÜDÖKSAD Academy, established in 2015, serves as an educational platform that enhances the knowledge base of foundries and provides the industry with access to the most accurate information on cutting-edge technologies. As of November 2023, TÜDÖKSAD has 138 member foundries and 58 associate supplier members. Sin-

ce 1989, TÜDÖKSAD has been a member of the World Foundry Organization (WFO), and in 2007 it joined the European Foundry Federation (EFF, formerly CAEF), con-

solidating its place within the unity of the European foundry industry. For more information, please visit <https://www.tudokсад.org.tr/>

### Turkey's Share in the EU Production of Light Metal Castings





# The Global Meeting of Metallurgy Industry; Ankiros Fairs

Eurasia's largest Metallurgy Platform, ANKIROS 2024 - 16th International Iron-Steel, Foundry, and Non-Ferrous Metallurgy Technologies, Machinery and Products Trade Fair, will take place in Halls 2, 4, 5, 6, 7, and 8 of the Istanbul Fair Center on September 19-21, 2024. With this expansion, ANKIROS Fair aims to become the global meeting point for the industry once again, attracting professional participants and visitors from all around the world. Growing exponentially since 1992, the ANKIROS family, with the support of TCUD - Turkish Steel Producers Association, TUDOKSAD - Turkish Foundry Association, and TMMOB - Chamber of Metallurgical and Materials Engineers, is preparing to present the latest technologies, innovations, and the most creative, economical, and environmentally friendly products to the world of iron and steel, casting, and metallurgy.

ANKIROS Fair, with special sections like TURKCAST – Foundry Products, ANNOFER – Non-Ferrous Metallurgy Technologies, and Steel Special Sections, aims to create a business platform where manufacturing companies can find markets for their products and select materials, machinery, equipment, and technology for their production processes. The fair brings together professionals from the metallurgy sector from Turkey, the Eurasian region, and around the world on this unique platform.

## TURKCAST Special Section

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 advan-

tage of its geographical location, its up-to-date technology and rapidly developing knowledge show how important Turkey 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.

## The Reliable Metal Castings Supplier; A lot to do in Die Casting!

Turkish Foundrymen are keen on inves-



ting on die casting while keeping their existing market shares in their already established production range. This creates a lot of opportunities for machinery, material and technology suppliers to Die-casting industry.

## STEEL Special Section

### **Steel Special Section” for Iron and Steel Producers and Suppliers**

Being in a very important status of Turkish exports; The steel industry, will meet at ANKIROS in larger halls with the support of TÇÜD Turkish Steel Producers Association. In addition to the international suppliers of the steel industry, 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

### **The Most Important Station of Non-Ferrous Metals**

In the Non-Ferrous Metals section, exhibitors will showcase the latest machinery, equipment, products, raw materials, and consumables in the field of non-ferrous metals.

This 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 in this area to for the visitors.

## 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](http://www.metem.org.tr)

## 12th International Foundry Congress

Organized by TÜDÖKSAD – 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.tudoksal.org.tr](http://www.akademi.tudoksal.org.tr)

[www.ankiros.com](http://www.ankiros.com)

# TÜDÖKSAD MEMBERS PARTICIPATION TO EUROGUSS TRADE FAIR QUARTET

COMPANY	HALL/STAND	WEB SITE
ADÖKSAN	<u>7 - 648</u>	<u>WWW.ADOKSAN.COM</u>
ALCAST METAL	<u>7A - 732</u>	<u>WWW.ALCASTMETAL.COM.TR</u>
ALÜMİNA ENDÜSTRİ	<u>7-506</u>	<u>WWW.ALUMİNA.COM.TR</u>
ARPEK ARKAN	<u>9 - 424</u>	<u>WWW.ARPEK.COM.TR</u>
ARSLAN MAKİNA	<u>8 - 411</u>	<u>WWW.ARSLANMAKİNA.COM</u>
ASLAR PRES	<u>9 - 337</u>	<u>WWW.ASLARPRES.COM</u>
AYHAN METAL	<u>9 - 618</u>	<u>WWW.AYHANMETAL.COM.TR</u>
BEYZA METAL	<u>9 - 143</u>	<u>WWW.BEYZAMETAL.COM</u>
CARL ZEİSS	<u>9-251</u>	<u>WWW.ZEİSS.COM.TR</u>
ÇELİKEL ALÜMİNYUM	<u>7A - 126</u>	<u>WWW.CELİKEL.COM</u>
DOĞUŞ DÖKÜM	<u>8 - 226</u>	<u>WWW.DOGUSMETAL.COM</u>
DÖKSAN BASINÇLI DÖKÜM	<u>7 - 472</u>	<u>WWW.DOKSANDOKUM.COM.TR</u>
DÖKTAŞ DÖKÜMCÜLÜK	<u>7 - 742</u>	<u>WWW.DOKTAS .COM</u>
ENDOSA KALIP	<u>9 - 408</u>	<u>WWW.ENDOSA.COM.TR</u>
ERDEM MAKİNA	<u>9- 456</u>	<u>WWW.ERDEMMAKİNALT.COM</u>
FOSECO	<u>7A - 134</u>	<u>WWW.FOSECO.COM.TR</u>
HOUGHTON KİMYA	<u>7 - 628</u>	<u>WWW.HOME.QUAKERHOUGHTON.COM</u>
KAĞAN DÖKÜM	<u>9 - 448</u>	<u>WWW.KAGANDOKUM.COM</u>
KALKANCI PRES	<u>7A - 224</u>	<u>WWW.KALKANCI.COM</u>
KORMETAL	<u>8 - 312</u>	<u>WWW.KORMETAL.COM</u>
MAGMA	<u>7 - 430</u>	<u>WWW.MAGMASOFT.COM.TR</u>
METAL PRES	<u>7 - 856</u>	<u>WWW.METALPRESMAKİNA.COM</u>
NEMAK	<u>7A - 322</u>	<u>WWW. NEMAK.COM</u>
PEK TEKNİK	<u>9 - 630</u>	<u>WWW.PEKTECHNİC.COM</u>
PROMETAL	<u>7 - 740</u>	<u>WWW.PROMETALTR.COM</u>
SÜPERPAR	<u>9 - 535</u>	<u>WWW.SUPERPAR.NET</u>
TUĞCELİK ALÜMİNYUM	<u>7 - 728</u>	<u>WWW.TUGCELİK.COM.TR</u>
TÜMSER	<u>8 - 531</u>	<u>WWW.TUMSER.COM.TR</u>
TÜDÖKSAD	<u>9 - 145</u>	<u>WWW.TUDOKSAD.ORG.TR</u>
UGUR METAL	<u>9 - 355</u>	<u>WWW.UGURMETAL.COM</u>
VELACAST	<u>8 - 421</u>	<u>WWW.UNİGRUP.COM</u>
YÜKSELLER METAL	<u>7 - 770</u>	<u>WWW.YUKSELLERMETAL.COM.TR</u>





# TÜDÖKSAD Turkish Foundry Association in Brief

Turkish Foundry Association (TÜDÖKSAD) is founded in 1976 by leading foundry industrialists and companies with the aim of providing support to enhance the economic progress of the metal casting industry and assisting its member companies to effectively manage all production operations and profitably market their products and services.

TÜDÖKSAD is a non-governmental organization with voluntary membership, which represents the leading firms, industrialists and managers of the foundry business. Our Association, covering all of the largest foundries and most of the SMEs as our members, have 137 member foundries and 52 associate members.

Turkish foundry sector is actively represented by TÜDÖKSAD in national and international platforms. TÜDÖKSAD promotes the interests

of the metal casting industry in front of the related executive branches of the government. TÜDÖKSAD members are actively participating to sectional committees and decision making bodies in national chambers of commerce and industry, hence contributing to the shaping of the national policies and priorities affecting the foundry industry.

TÜDÖKSAD is a member of the World Foundry Organization (WFO) since 1989 and became a member of The European Foundry Associa-

tion (CAEF), the organization union of the European foundry industry, in 2007. TÜDÖKSAD supports the bi-annual Ankiros, Annofer, TurkCast and Aluexpo fairs.

## **138 Member Foundries & 58 Associate Supplier Members**

Iron Foundries / 71

Steel Foundries / 45

Non Ferrous Foundries / 22

HPDC Foundries / 36

Investment Casting Foundries / 8

Associate Supplier Members / 58



# TÜDÖKSAD Academy Forges a Skilled Future with Comprehensive Vocational Trainingz

**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 diverse 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 promotional 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 insights, 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 global 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!

## Call For Papers is announced to be soon.

Follow the updates at [akademi.tudoksal.org.tr](http://akademi.tudoksal.org.tr) website and TÜDÖKSAD social media accounts!



# 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 an-

yone 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/>**

# TUDOKSAD Members

## Iron Foundries & Production Areas

Automotive	Pumps & Valves	Energy
Alfa Döküm	<b>DISAMATIC</b>	Akdaş Döküm
Atik Metal	<b>Foundries</b>	Cer Döküm
Ardöksan	Alfa Döküm	Dirinler Döküm
Ay Döküm	AYD Otomotiv	Ekstra Metal
Ayzer Döküm	Burdöksan	İğrek Makina
Döktas Dökümcülük	Döktas Dökümcülük	Karaman Döküm
Eku Fren Döküm	Çemas Döküm	Kardökmak
Entil Endüstri	Demisaş Döküm	Lotus Döküm
Erkunt Sanayi	Ferro Döküm	Mes Döküm
Ertuğ Metal	Kaydöksan	Yazkan Döküm
Ferro Döküm	Trakya Döküm	Yıldır Döküm
Haytaş Döküm	Tümosan Döküm	
Hekimoğlu Döküm		
Hema Otomotiv		
Koçak Metalurji		
Kutes Metal		
Mes Döküm		
Mesa Makina		
Motus Otomotiv		
Odöksan (Elba)		
Özgüven Döküm		
Tümosan Döküm		

Urbanization & Infrastructure	General Machinery (agricultural, chemistry, earth moving, electric, food, hydraulic, marine, railway, rolls)					
Erkon Döküm	Akdaş Döküm	Bilge Döküm	DMS Denizli Döküm	Haytaş Döküm	Kutes Metal	Rolmak Döküm
İstikamet Döküm	Akpınar Döküm	Canbilenler Döküm	Doğu Döküm	Hekimoğlu Döküm	Mes Döküm	Sümer Çelik
Kondöksan Döküm	Alfa Döküm	Cer Döküm	Döktas Dökümcülük	İğrek Makina	Mesa Makina	SYC Demir Döküm
Mert Döküm	Altan Makina	Cemas Döküm	Dökümtaş 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	Yıldır 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	
As Çelik	Silvan Sanayi	İğrek Makina	
Aslankaya Döküm	Sümer Çelik	Kardökmak	
Boran Çelik	Senkaya Çelik Döküm	Silvan Sanayi	
Cer Döküm	Tan Çelik		
Çukurova İnş.-Çimsataş	Yıldız Döküm		
Deniz Döküm			
Dökümaş Döküm	<b>Bimetal Castings</b>		
Dudoğlu Döküm	Anadolu Döküm		
Gedik Döküm	Dudoğlu Döküm		
Gürsetas Döküm	Hekimoğlu Döküm		
Hekimoğlu Döküm	Körfez Döküm		
Hisar Çelik			
İşik Çelik			
İğrek Makina			
İstanbul Döküm			
<b>Centrifugal Castings</b>		<b>Forging Facilities</b>	
Anadolu Döküm		Akmetal - Open Die	Ümit Döküm
Körfez Boru		Çukurova İnş.-Çimsataş - Closed Die	

# TUDOKSAD Members

## Associate Supplier Members

<b>Coal Dust</b>	Kadioğlu Madencilik
<b>Bentonite</b>	Amcol Mineral, Clariant, Ortadoğu Mineral, S&B End. - Haznedar Durer Refrakter
<b>Foundry Sand</b>	Celiktaş, Kumsan, Sıtaş
<b>Melting Equipments</b>	Doğuş Döküm, Eges, Inductotherm, İndemak
<b>Simulation Softwares</b>	ASK Chemicals TR, Magma Bilişim, Valans Mühendislik
<b>Machining Equipments</b>	Mega Elektronik, Tekno Metalurji, Tezmaksan
<b>Trade Fair Services &amp; Consulting</b>	Hannover Messe Ankıros
<b>Analysis &amp; Measurement</b>	BDM Bilginoğlu, Carl Zeiss, Heraeus Electro-Nite
<b>Feeder &amp; Resins &amp; Coating &amp; Filters</b>	Altinkum Döküm, ASK Chemicals TR, Çukurova Kimya, Doğuş Döküm, Foseco TR, Metko Hüttener Albertus, Unikon Metalurji, Zenmet
<b>Raw Materials (Pig Iron)</b>	Acarer Metal, Altinkum Döküm, Aveks, Marmara Metal
<b>Consumables</b> (ferro alloys, inoculants, abrasives, additives)	Acarer Metal, AKM Metalurji, Altinkum Döküm, ASK Chemicals TR, Aveks, BDM Bilginoğlu, Cango Endüstriyel, Deniz Döküm, Doğuş Döküm, Ekspert Mümessilik, Fetaş Metalurji, Harborlite Aegean Endüstri-İmersy, Katsımtaş, Korkmaz Çelik, Kromas Metal, Marmara Metal, TMC Metal, Zenmet
<b>Foundry Machinery</b> (moulding, core shooting, sand preparation, pouring, fettling)	ELM Döküm Makinaları, Erdem Makina, Ekspert Mümessilik, Kromas Metal, Metal Pres, Meta-Mak Metalurji, Ortadoğu Mineral, Özén Makina, Tekno Metalurji, Tes-San Tesisat, Velacast, Wöhrl Makine
<b>Recycling</b>	Er Metal
<b>ERP Software</b>	Bilişim, Doğuş Döküm
<b>Industrial Process Fluids</b>	Houghton Kimya
<b>Aluminum Raw Material</b>	Heineken Metal, Yükseller Metal
<b>High Pressure Die Casting Equipments</b>	Bühler AG, Doğuş Döküm, Erdem Makine, Metal Pres, Velacast
<b>Refractory</b>	AKM Metalurji, Daussan Refrakter, EGT Refrakter, Haznedar Durer Refrakter, Katsımtaş, Zenmet
<b>Foundry Dust Collection and Filtration Systems</b>	Bomaksan, Meta-Mak, Nederman

# TUDOKSAD Members

## Non Ferrous Foundries & Production Areas

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

# TUDOKSAD Members

## Non Ferrous HPDC Fouandries & Production Areas

Automotive	White Goods	General Machinery (Defense, Energy, Building, Lighting, Other)
Adıksan Döküm Alcast Metal Alümina Endüstri Arpek Arkan Ayhan Metal Beyza Metal Can Metal Çelikel Alüminyum Döksan Basınçı Döküm Döktas Dökümcülük Döktim Döküm Endosa Kalip Gürmanuç Metal Güven Pres Hema Otomotiv Kağan Döküm Kalkancı Pres Kirpart Otomotiv Kormetal Mita Kalip 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	Ayhan Metal Beyza Metal Döktim Döküm Endosa Kalip Kalkancı Pres Mita Kalip Normsan Pek Teknik Prometal Ruba Pres Döküm Tuğçelik Alüminyum Tümser Ev Aletleri Uğur Metal	Alcast Metal Altun Döküm Ayhan Metal Beyza Metal Can Metal Döksan Basınçı Döküm Döktim Döküm Endosa Kalip Gürmanuç Metal Güven Pres Kağan Döküm Kalkancı Pres Mita Kalip NormsanPek Teknik Ruba Pres Döküm Sırvalı Alüminyum Tümser Ev Aletleri Uğur Metal Uyar Döküm

# TUDOKSAD Members

## Investment Casting Foundries

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