

WE ADD VALUE TO METALS!

Turkish Foundry Industry

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- 2021 WFO TECHNICAL FORUM TURKEY
- TÜDÖKSAD VOCATIONAL TRAINING ACTIVITIES & CONGRESSES
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THE TURKISH
FOUNDRY
ASSOCIATION



The World
Foundry
Organization



The European
Foundry Association



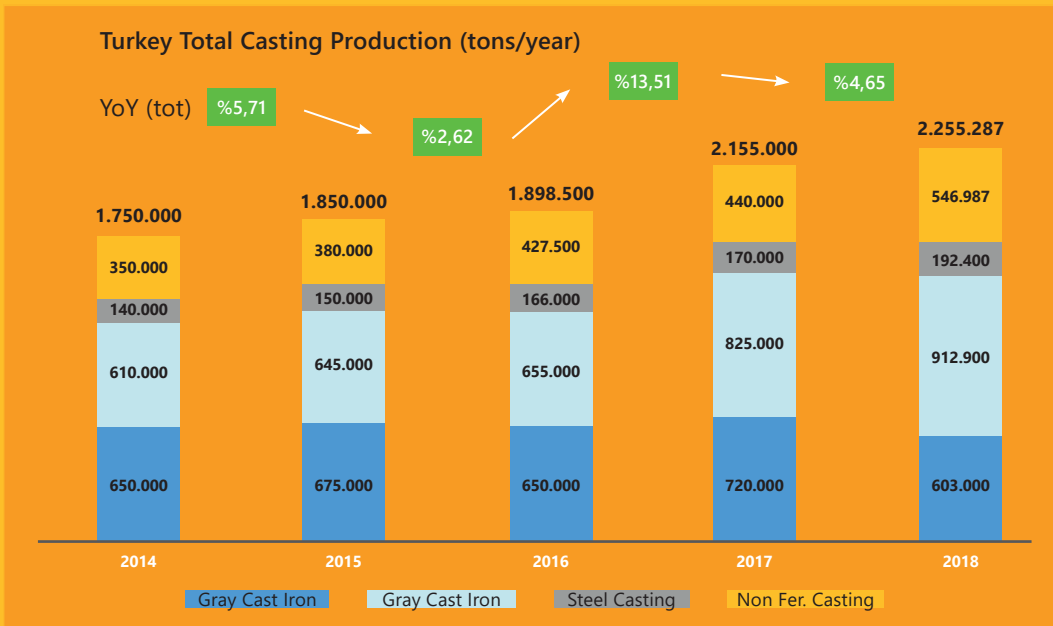
Deutsche Messe
Worldwide
Hannover-Messe
Ankiris Fuarçılık A.Ş.

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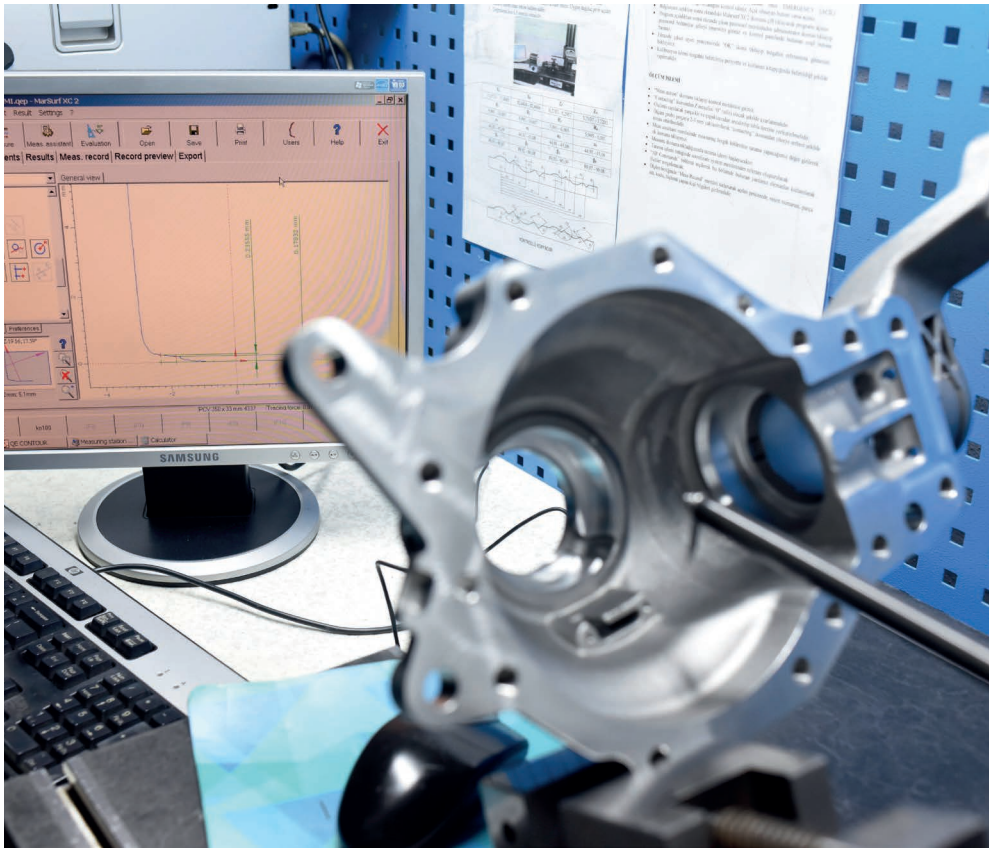
Turkish foundry sector acts an important role in world casting production, as well as in Europe. According to AFS's 53rd Census of World Casting Production (2018), Turkey has taken 3rd place in Europe and 11th place in global.

Turkish Foundry Industry has the ability to meet all demands in a short time and in every sense, through the deep industrial background. There are nearly 1000 foundries operating in the country that covering various business models such as high-volume produ-

ction foundries with state-of-the-art automatic molding lines, big part manufacturing up to maximum tonnages in single part with available flask sizes and jobbing foundries serving different industries precisely with ready-to-as-







Advanced Technical Capabilities

Turkish foundries make use of latest design, simulation and ERP softwares to achieve highest productivity, process reliability and control over the all processes. All the fingerprints of processes are stored to ensure traceability, to be used in certification procedures and process development and correspondingly most of the foundries implement lean production principles.

The versatility of the Turkish Cast Metal Business could be demonstrated by the number of casting and molding processes available that match with every specific expectation such as high surface quality and dimensional accuracy, type of pattern/corebox equipments, machining facilities and secondary processes. As the consumers and the manu-



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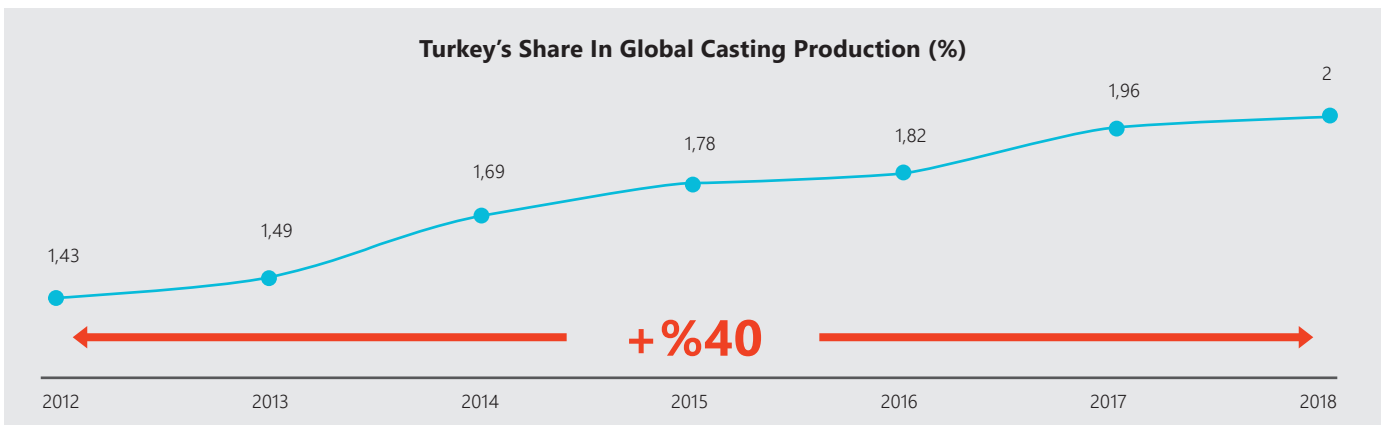
Facts & Figures (2018)

2.255.287
tons of castings

34.000
employees

950
foundries

5.15
billion Euros of sales



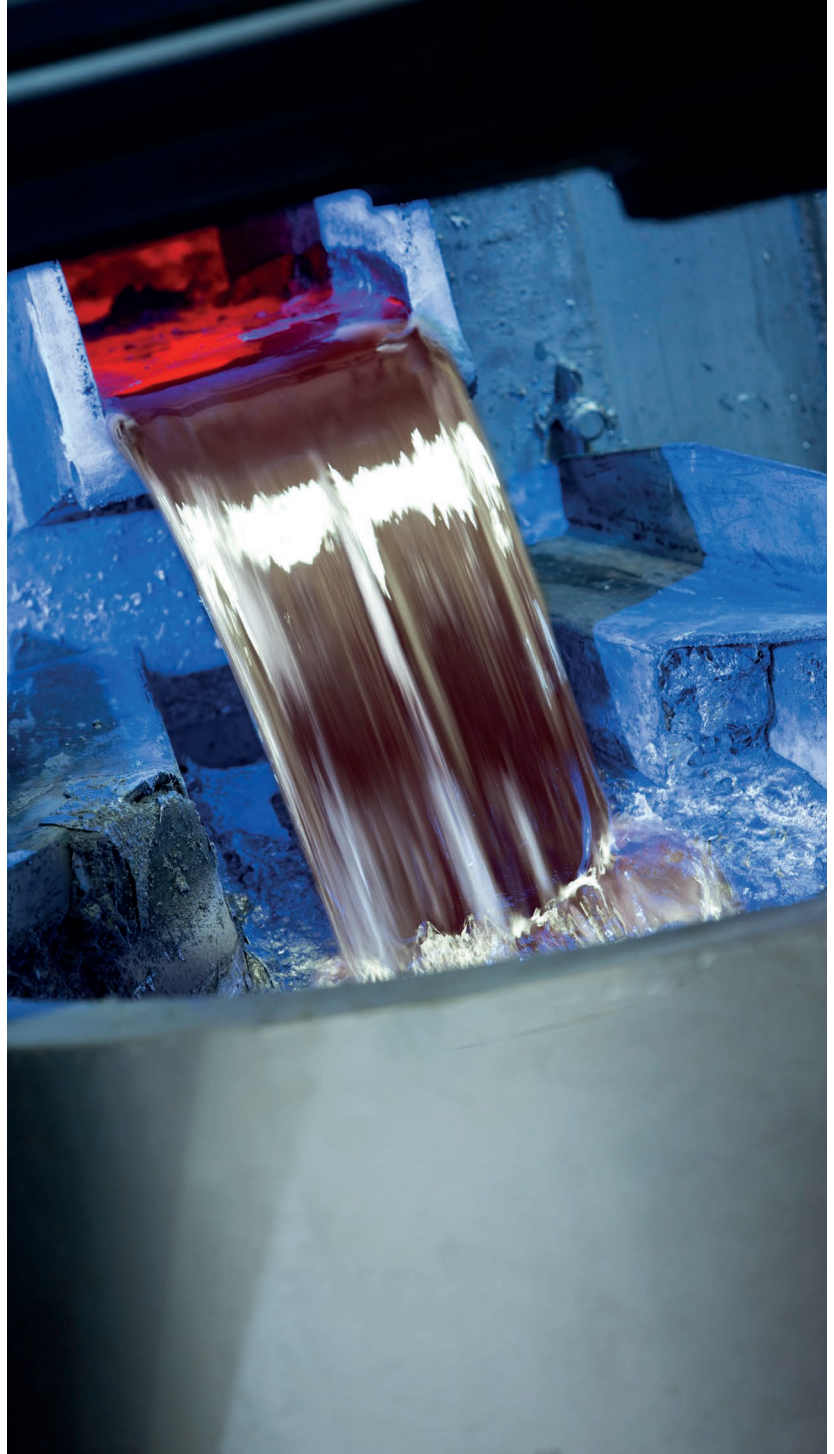
facturers become more environmentally conscious and demand grows for green initiatives, foundries are increasingly implementing eco-friendly manufacturing processes and sustainable product options.

Also, 14 foundries have got R&D Center Certificate by the Ministry of Science, Industry and Technology so far under the new regulation, which aims to improve University-Industrial Research Collaboration and offers the opportunity of realizing funded research studies and taking part in EU projects as well. The focus is on innovations and technologies that contribute to the environment as well as energy efficiency and efficiency of resources.

A significant amount of foreign direct investment has been realized in the last decade

Among them, the main ones are Nemak, Federal Mogul, Maxion investments and in the supply side many global organizations such as Hüttenes Albertus, Magma GmbH, Imerys, Inductotherm, Heraus Electro-Nite, Vesuvius-Foseco and ASK Chemicals have made investments in Turkey.

Additionally, Oyak Renault will start mass production of aluminum engine blocks for the first time in Turkey. In doing so, the HPDC production center investment has been realized and after test productions it will become the only hybrid engine production facility in Europe in 2020. The situation reveals the important position of Turkish Cast Metal Business and underlines its high potential.



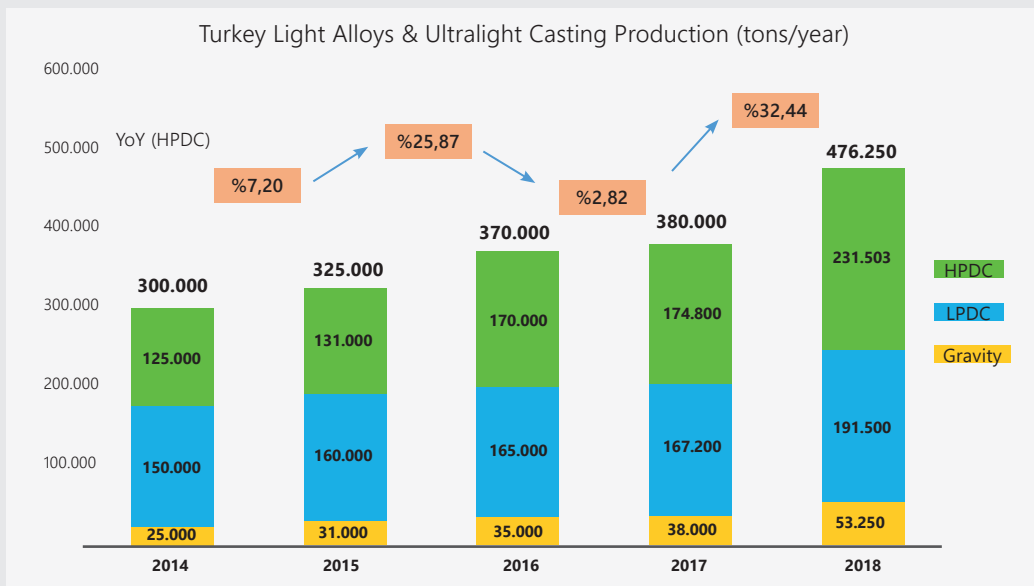
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Die Casting of Aluminum and Zinc Alloys

Die Casting method is a quick, reliable, as well as cost-effective and is used for producing large volumes of components, which are net-shaped with high dimensional stability and tolerance. Die Casting is a steadily rising Business area in Turkey compared to ferrous castings. In total 29 Die caster members of Tudoksad, produces more than %50 of all Turkish output. As 2018, total number of die casting shops are around 295, total production of light metals 476.253 tons with 20 %

rise compared to 2017. From year 2000, owners of the foundries faced towards abroad, mainly European main industries and with growing demand to aluminium castings from local and from EU customers, Turkish die casters has caught a constant growing movement. Modern investments on new green field plants with extremely high budgets are being realised at the moment, by the sector leaders and new enterprises.



Adapting to the New Challenges

Turkish foundries update their business models accordingly with the latest innovations and technological breakthroughs in line with the environmental regulations. This enables them to develop their own solutions in a widest range for the customers, also with offering rapid prototyping, additive manufacturing, in-house pattern making

services and faster NPI mechanisms. Products supplied at favorable prices, coupled with simultaneous engineering, just in time delivery, prompt reaction to design changes and flexibility are the principal priorities for the further growth of Turkish foundry industry in the global market place in the coming decades.



TURKISH FOUNDRY ASSOCIATION

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. Our Association, covering all of the largest foundries and most of the SMEs as our members, have 122 member foundries and 38 associate supplier members.

TÜDÖKSAD is a member of the World Foundry Organization (WFO) since 1989 and became a member of The European Foundry Association (CAEF), the organization union of the European foundry industry, in 2007. TÜDOKSAD supports the biannual Ankiros, Annofer, TurkCast and Aluexpo fairs.

Continuous Production & International Trade

Besides having a large and diverse mineral resource base that includes lead, mercury, silver, tin, other precious metals and coal, rich iron reserves provides our foundries a continuous access to the raw materials.

Besides being in the customs union with the European Union, Turkey has Free Trade Agreement with 27

countries means direct access to a market of 1 billion€ in total. The top export destinations of Turkey are Germany, the United Kingdom, Italy, the United Arab Emirates, Russia and the United States .

Turkey borders Armenia, Azerbaijan, Georgia, Iran, Iraq, Syria, Bulgaria and Greece by land and Egypt, Cyprus, Romania, Russia and Ukraine by sea.



27

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1 billion €

Turkey has a total of 1 billion euros in direct market access.

Favorable Logistics

The geographical location of Turkey offers unique advantages. Turkey is within just a 4-hour flight distance to 1.5 billion people, from the Scandinavia to the Middle East, and from Africa to the Urals. The cities of Ankara, Izmir, Istanbul, Konya, Trabzon and Adana have international airports. Also, there are multiple airlines operate several domestic flights from these airports making travel between major Turkish cities easy. Turkish Airlines and Pegasus agencies provide information regarding fares, price reductions and timetables. Buses are available for travelling between the cities and airports as well.

Turkey Takes Over The Presidency of The World Foundry Organization (WFO)



Operating under a country member organisation structure, the WFO is tasked with representing the needs of 30 plus member each with their own membership requirements. The administrative structure of the WFO encompasses a general assembly committee, where all member countries are equally represented, an

executive board and secretariat for detailed development, and executive officers to help guide the organisation. The current president of Turkish Foundry Association, Umur Denizci, was elected into the role of WFO president for the period 2020-2021, during the WFO General Assembly meeting in September, Slovenia.



The World Foundry Organization

World Foundry Organization & 2021 WFO Technical Forum
Çeşme, İzmir

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2021 WFO Technical Forum in Çeşme, İzmir

Mr. Denizci announced in the upcoming events section of the General Assembly agenda that Turkish Foundry Association is going to host the next Technical Forum (2021) in Çeşme, one of the most popular touristic regions in Turkey which is 85 km west of İzmir. As TUDOKSAD, we are looking forward to welcome participants from all over the world within the 2021 Technical Forum in this great location.

Çeşme is just an hour's drive from the İzmir airport, which connects Turkey's third largest city with Europe, the Middle East and destinations around Turkey. İzmir has a leading position in Turkish Foundry Industry as it has in many business lines, with its geo-

graphical position and accessibility, deep industrial background, essential educational institutions and advanced infrastructure.

Çeşme (meaning "fountain" in Turkish) was a major Byzantine and Ottoman port until İzmir outgrew it. Today, Sunny Çeşme is popular for its lovely beaches with a view over the Aegean to the Greek Island of Chios, thermal springs, the old castle and great archaeological sites, colorful houses in the town centre, festivals and specific attractions such as wind-surfing, kite boarding, boat trips to the islands.

Call for Papers and registration forms are to be announced next year in our web page: www.tudoksad.org.tr

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Vocational Training Activities

As TUDOKSAD, to fulfill the young and dynamic labor force potential in Turkey, we have focused on vocational training activities in the recent period. Since 2015, under the name of **Tüdöksad Academy**, we have been



organizing monthly training activities and annual foundry congresses which aims to improve the knowledge of foundrymen.

2nd National Foundry Congress has been held successfully on 30th November - 1st December in Izmir Swissotel with more than 500 participants. Under the motto "**Sustainable Innovation in the Foundry Industry**", in total, 40 oral presentations were performed in 6 sessions and 2 panels (Youth & Additive Manufacturing) during the Congress, as well as with the poster session.

Alıplama için uygulama

$$22,6 \cdot G$$

$$t \cdot \xi \cdot \sqrt{h}$$

GJS 500-7
 $\rho = 7,1 \text{ g/cm}^3$
 $t = 13 \text{ s}$
 $\xi = 0,30$
 $G = 64,1 \text{ kg}$

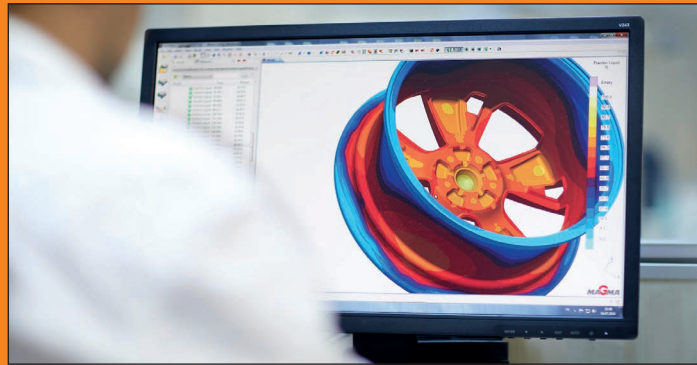
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TÜRKİYE DÖKÜM
 SANAYİCİLERİ DERNEĞİ



tüdöksad
 akademi



We are looking forward to welcome foundrymen from all over the world next year in the **12nd International Foundry Congress**, to be held between 12 - 14 November 2020, concurrently with Ankiros / Annofer / Turkcast fairs. Call For Papers of the

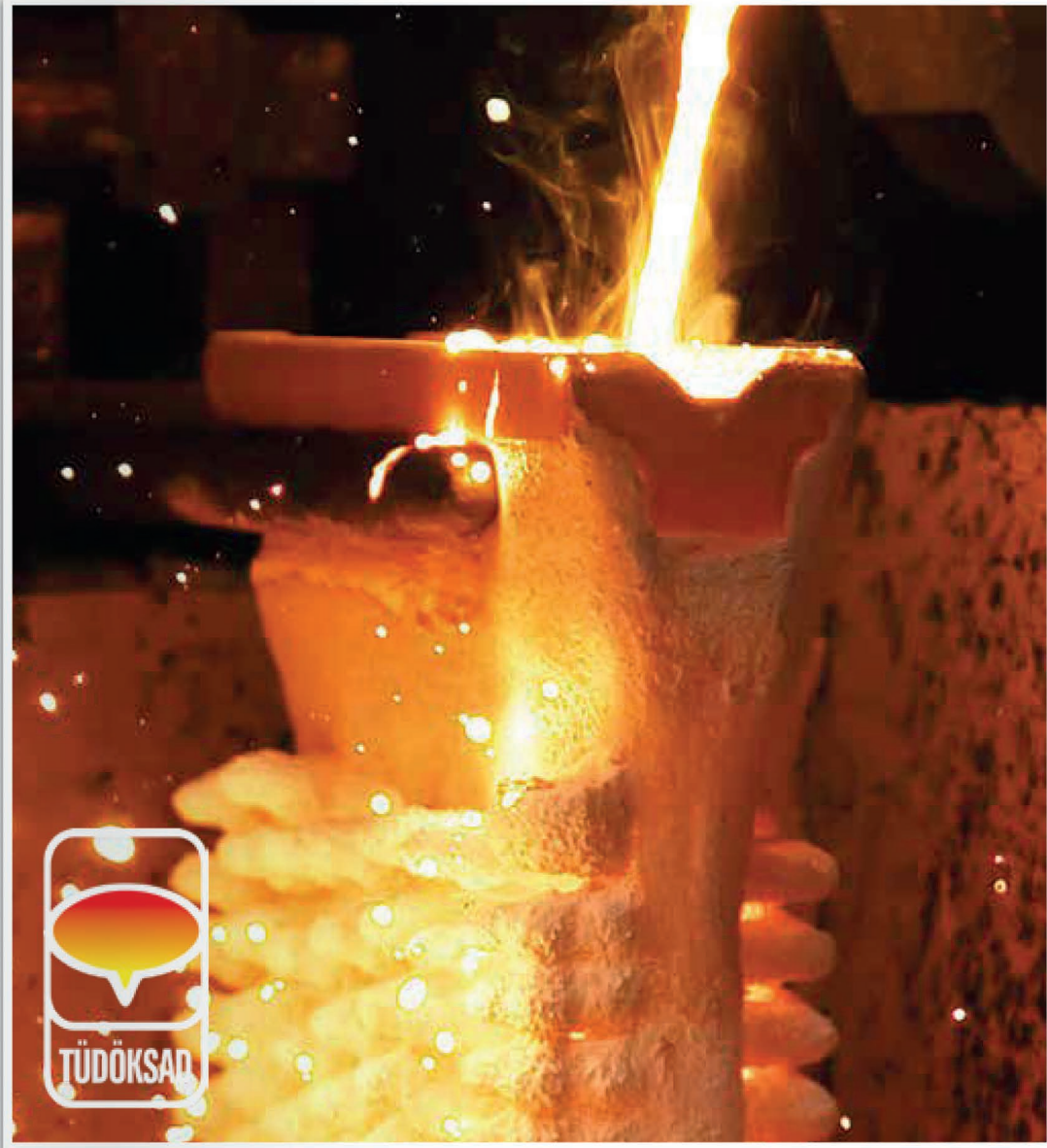
Congress is going to be announced at the beginning of 2020 through the social media channels.

In addition, the online education platform "**Dokumhane.net**", which we have 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. We plan to continue these activities in the coming period.



TURKISH FOUNDRY INDUSTRY

“We Add Value to Metals!”



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THE TURKISH
FOUNDRY
ASSOCIATION

For detailed information please visit
www.tudoksad.org.tr/uye-rehberi