



uctea
Chamber of
Mechanical
Engineers



X. NATIONAL HYDRAULICS & PNEUMATICS CONGRESS AND EXHIBITION

WITH INTERNATIONAL PARTICIPATION

12-15 November 2025

MMO TEPEKULE
CONVENTION AND EXHIBITION CENTRE



CONTACT ADDRESS

Anadolu Cad. No.: 40 K: M2 35010 Bayraklı - İZMİR

Phone: +90 232 462 33 33 / 2209-2210

www.hpkon.net

e-mail: hpkon@mmo.org.tr



Deutsche Messe

Hannover Fairs Turkey Fuarçılık A.Ş.

OBJECTIVES OF THE CONGRESS

The main objective of the Congress is to contribute to the improvement of hydraulics and pneumatics technologies.

The Congress also provides an opportunity to;

- ◆ Discuss scientific and technological developments in the field of hydraulics and pneumatics and their applications.
- ◆ Provide a common platform for hydraulics and pneumatics engineers and technicians, academicians, researchers, developers, users, students, sector and trade associations.
- ◆ Determine the required actions on education, research and legal regulations and share the current developments with the engineers and technical people working on the hydraulics and pneumatics.

It is desired that the papers presented in the Congress is a technical reference for application engineers and technical people.

Hydraulics and Pneumatics Congress with its scientific program, exhibition and social activities will be a common information and sharing platform for the hydraulics and pneumatics sector.

Engineers, academicians, technicians, companies and sector associations who are working in the hydraulics and pneumatics field are invited to contribute and give support to this common platform.

Organizing Committee

Executive Committee

EXHIBITION

- ◆ Hydraulic and pneumatic systems and equipment
- ◆ Mobile hydraulic systems and equipment
- ◆ Hydraulic pumps
- ◆ Hydraulic and pneumatic valves
- ◆ Hydraulic and pneumatic cylinders and motors
- ◆ Air compressors
- ◆ Pressurized air preparation and equipment
- ◆ Hydraulic filtration systems
- ◆ Hydraulic oils and lubrication systems
- ◆ Fluid power seals
- ◆ Hydraulic and pneumatic systems in automation applications
- ◆ Controllers, sensors and other measuring elements
- ◆ Connection elements and equipment in hydraulic and pneumatic systems

You can contact Hannover Fairs Turkey Fuarçılık for the Exhibition, which will be held concurrently with the Congress.



Deutsche Messe

Exhibition Organizer: Hannover Fairs Turkey
Project Contacts: Sena Mengül - Gökay Güler
Büyükdere Cad. Şarlı İş Merkezi No: 103, B Block, Floor 5, 34394
Mecidiyeköy-Şişli / İstanbul
Hannover Fairs Turkey Fuarçılık A.Ş.
Phone: +90 (212) 334 69 00
Fax: +90 (212) 230 04 80
Email: sena.mengul@hf-turkey.com
Website: www.hfturkey.com

This congress is organized by Chamber of Mechanical Engineers İzmir and İstanbul branches.



MAIN THEME

* X. HPKON Hydraulics & Pneumatics Congress:

"Towards a Sustainable Future"

We are honored to invite you to the 10th HPKON Hydraulics and Pneumatics, organized by the Chamber of Mechanical Engineers, which will be held November 12-15, 2025. This year, the main theme of our congress is "Sustainability". In line with advancing technology and evolving industrial dynamics, we will explore in depth how Fluid Power systems can shape a sustainable future. During the congress, we will discuss how to minimize the environmental impact of innovations and applications in the Fluid Power field and enhance sustainability in industrial processes.

The main topics and technologies to be addressed throughout the Congress are as follows:

- * **Artificial Intelligence:** The role of artificial intelligence in enhancing efficiency and saving energy in Fluid Power systems.
- * **Digital Transformation:** How can we increase sustainability through the digitalization of industrial processes?
- * **Supply Chain:** Innovative approaches to enhancing sustainability and efficiency in supply chain management.
- * **Energy:** Energy efficiency and the integration of renewable energy sources.
- * **Blockchain:** The potential of blockchain technology for transparency and traceability in industrial processes.
- * **Carbon Footprint:** Reducing the carbon footprint in industrial production processes.

At this congress, leading industry figures and academics will engage in discussions, present case studies, and shed light on the future of Fluid Power systems. We invite you to attend our Congress to learn about innovative solutions and the latest developments in the industry, expand your network, and gain insights into best practices related to the sector.

Are you ready to help build a sustainable future for the Fluid Power industry together?

TOPICS OF INTEREST

HYDRAULICS

- ◆ Industrial hydraulics
- ◆ Mobile hydraulics
- ◆ Marine hydraulics
- ◆ Hydraulic circuit design
- ◆ Hydraulic components and their applications
- ◆ Proportional and servo systems
- ◆ Electrification in Mobile Hydraulic Drive Systems
- ◆ Hydraulic fluids, seals and filtration
- ◆ Safety in design and machines
- ◆ Energy efficiency
- ◆ Hydrostatic circuits
- ◆ Load-sensing control systems
- ◆ Computational fluid dynamics (CFD)
- ◆ Micro and nano flows
- ◆ Maintenance and troubleshooting
- ◆ Sector specific applications

PNEUMATICS

- ◆ Pneumatic circuit design
- ◆ Pneumatic components and their applications
- ◆ Pressurized air preparation and conditioning equipment
- ◆ Pneumatic systems in mobile applications
- ◆ Safety in design and machines
- ◆ Energy efficiency
- ◆ Pneumatic control systems
- ◆ Vacuum technologies
- ◆ Maintenance and troubleshooting
- ◆ Sector specific applications

CONTROL SYSTEMS/MECHATRONICS/AUTOMATION

- ◆ Proportional and servo control
- ◆ Simulations of hydraulic and pneumatic systems
- ◆ Controllers, sensors and other measuring elements
- ◆ Robotic applications in hydraulic and pneumatic systems
- ◆ Mechatronic applications in hydraulic and pneumatic systems
- ◆ Hydraulic and pneumatic test systems
- ◆ Digital technologies

DEADLINES

28 February 2025	Submission of abstract proposals
14 March 2025	Notification of acceptance of abstracts
30 May 2025	Submission of full papers
27 June 2025	Notification of acceptance of papers

When preparing your paper, we kindly request that you refer to the "Hydraulic Pneumatic Turkish/English/German Dictionary" published by MMO during previous congresses. You can access the dictionary [here](#).

Proposals that are accepted for presentation after undergoing peer review will be published in the Congress Proceedings Book. Additionally, selected papers deemed suitable by the editorial board will be published in the MMO Engineer and Machine journal.



ORGANIZING COMMITTEE

Ali Haydar Karaçam	MMO Head Office
Deniz Alp Yılmaz	MMO Head Office
Serap Özpolat Çete	MMO Head Office
Murat Durukan	MMO Adana Branch
Nazan Irmak	MMO Ankara Branch
Onur Akça	MMO Antalya Branch
Serhat Bulut	MMO Bursa Branch
Oğuz Ali Avcı	MMO Denizli Branch
Güler Akcan	MMO Diyarbakır Branch
Emine Pınar Keskin	MMO Edirne Branch
Sertan Doğan	MMO Eskişehir Branch
Eyüp Zengin	MMO Gaziantep Branch
Nazlı Uncu	MMO İstanbul Branch
Utku Tutar	MMO İzmir Branch
Burcu Başpişirici	MMO İzmir Branch
Ziya Murat Öztürk	MMO Kayseri Branch
Yiğit Doruk Turguter	MMO Kocaeli Branch
Haşmet Çağrı Sezgen	MMO Konya Branch
Gökhan Karapınarlı	MMO Mersin Branch
Yaşar Baş	MMO Samsun Branch
Önder Durmuş	MMO Trabzon Branch
Gökser Acun	MMO Zonguldak Branch

CHAIRPERSONS

Congress Chair: Şemsettin Işıl

Congress Co-chairs:

- M. Ertan Soydan
- R. Tuna Balkan
- Semih Kumbasar
- Suat Demirer
- Durmuş Kara
- Dilara Mumkaya Akkoyunlu
- Ahmet Pınarlı

A. Haydar Karaçam
Aygün Erol
Esra Uzel Başkan
Fikret Kemal Akyüz
Hasan Özger

Hüseyin Adanur
İbrahim Tataroğlu
M.Burak Örenel
Mustafa İleri

Necmi Varlık
Necip Çayan
Sevda Kayhan Yılmaz
Turgay Şirvan

STEERING COMMITTEE

- S.Kemal Tiryakioğlu
- Özgür Arslan
- MMO İzmir Branch
- MMO İstanbul Branch

SECRETARIES

- Baturalp Osmanlar
- Murat Üstebay
- MMO İzmir Branch
- MMO İzmir Branch