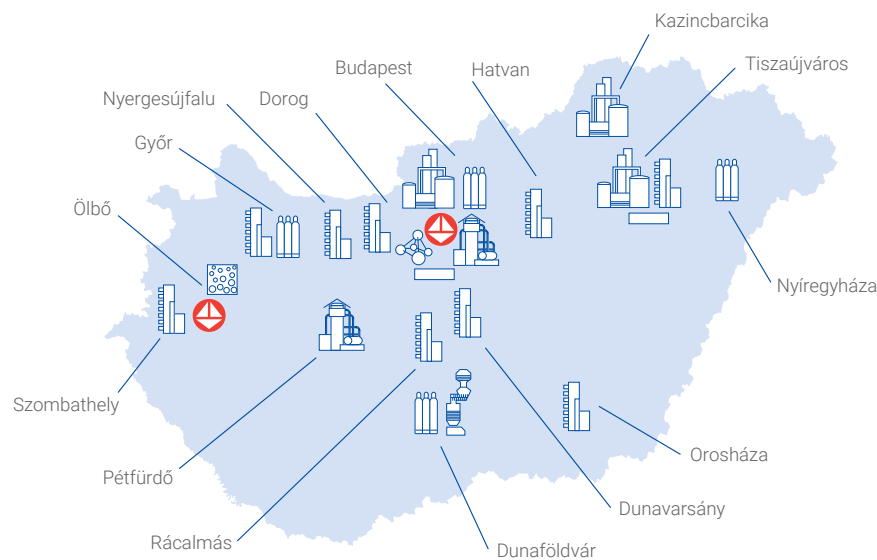


# MESSER IN HUNGARY



- 3** ASU in Budapest, Tiszaújváros, Kazincbarcika
- 4** filling plants in Budapest, Győr, Dunaföldvár, Nyíregyháza
- 3** CO<sub>2</sub> production plants in Ólbő
- 1** specialty gas plant in Budapest
- 1** acetylene plant in Dunaföldvár

- 2** hydrogen plants in Budapest and Pétfürdő
- 12** on-site partners
- 21** on-site gas production plants
- +100** more than 100 gas centres countrywide
- 1** accredited gas analysis calibration laboratory

## MORE THAN 130 GASES AND GAS MIXTURES

Oxygen, nitrogen, carbon dioxide, argon, helium, krypton, neon, xenon, hydrogen, acetylene, welding gases, food gases, medical gases, high purity and specialty gases, dry ice, etc.

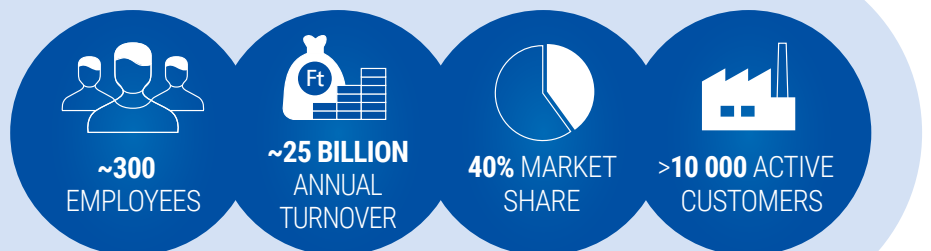
## ON-SITE GAS PRODUCTION AT OUR CUSTOMERS

We build and operate large on-site gas production sites at our customers' premises as market leaders and experts in this field. These plants are controlled remotely from our Budapest headquarters, just as a number of Messer's other on-site plants in Europe.



## SPECIALIST OF INDUSTRIAL GASES

Messer Hungarogáz Kft. is one of the market leaders among industrial gas manufacturers in Hungary. We provide gases for a wide variety of industrial sectors, healthcare and research & development. In addition to our gases, we also develop application technologies tailored to the unique needs of our customers, in order to make their production processes more efficient and environmentally friendly.

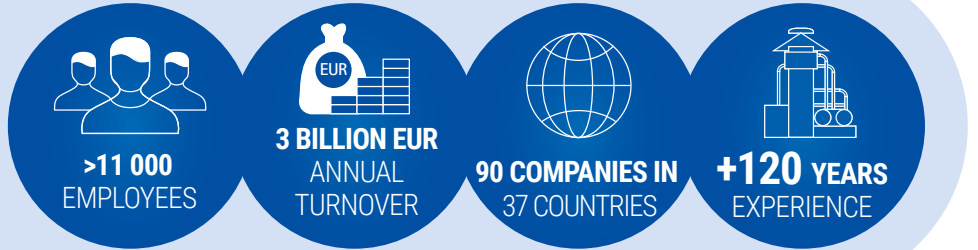


# MESSER

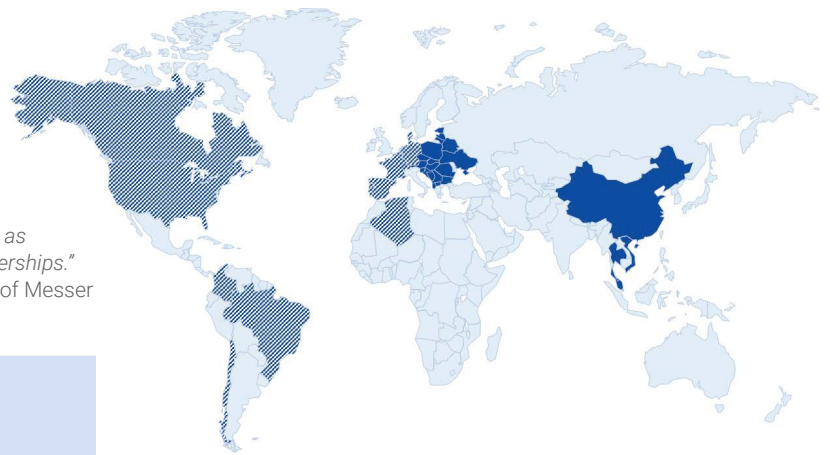
## WORLDWIDE

### MESSER GROUP

Messer is the largest family-run industrial gas specialist in the world. Since its foundation in 1898 the third generation of the Messer family manages the company, which is located in 37 countries in Europe, Asia, America and in Africa. The corporate headquarters of Messer Group is located in Bad Soden near Frankfurt, Germany.



*"Journeys are better undertaken as a team – with established partnerships."*  
Stefan Messer, CEO and owner of Messer



### GAS SUPPLY FORMS



#### CYLINDERS FOR SMALLER NEEDS

- Individual cylinders or cylinder bundles for small gas requirements
- Supplied via our local distributors or directly from the filling plant
- Cylinders from 1 to 50 liters
- Pressure regulators for cylinders



#### STORAGE TANKS FOR MEDIUM-SIZED JOBS

- Gas supplied on-site by road tankers
- Smaller quantity by dewar solution, supplied by Messer service vehicles
- Telemetric tank level check
- Gas supply systems and networks construction



#### ON-SITE GAS PRODUCTION FOR LARGE JOBS

- Gas production at the customers' site in air separation units
- Cryogenic N<sub>2</sub>/O<sub>2</sub> generators
- PSA, VPSA or membrane units
- Hydrogen and synthesis gas production facilities



#### PIPELINES FOR THE BIGGEST JOBS OF ALL

- Direct connection through pipeline system to an industrial area with many interconnected bulk consumers

### INDUSTRIES AND APPLICATIONS



#### CHEMICAL INDUSTRY AND PETROCHEMISTRY

Inerting, oxidation processes, cryogenic technologies.



#### METALWORKING

Shielding gases and gas mixtures for welding, material processing, thermal spraying, laser welding and cutting or MAG welding of plain steels.



#### AUTOMOTIVE, ELECTRONICS

Gases for xenon headlights, airbags, air conditioning systems, tyres, emission control, tablet displays and circuit boards.



#### FOOD AND BEVERAGES

Gases for modified atmosphere packaging, cooling and freezing, carbon dioxide for drinks.



#### WATER AND ENVIRONMENT

Technologies and gases for drinking and wastewater treatment, recycling centres and waste gas cleaning in large-scale industrial plants.



#### RESEARCH AND LABORATORY

Ultra pure and laboratory gases, test and calibration gases, process gases and gas mixtures for research institutes and universities.



#### MEDICINE AND PHARMACEUTICALS

Anaesthesia, pain management, respiratory therapy, cryotherapy, storage of biological materials.