



fives

Combustion

Press release – Paris, July 5, 2018

A new Fives research centre to ramp up combustion innovation

On 23 May 2018, Fives fired up its new research centre: with the *Fives European Combustion Centre* located in the province of Piacenza (northern Italy), the Group will have the largest combustion research center in Europe, helping to speed up the development of the technologies of the future and better respond to new industry requirements.

A unique centre in Europe

Fives is reinforcing and modernizing its testing facilities with the *Fives European Combustion Centre*, the largest combustion research center in Europe for the energy and oil & gas industries.

Combustion systems
integrating advanced
technologies

This centre will reduce the time-to-market of combustion systems which have improved energy performance, are more environmentally friendly and guarantee a high level of security; key issues which Fives addresses, notably by aiming to incorporate key technologies when designing combustion equipment, such as additive manufacturing and digital.

A center dedicated to research, with cutting-edge facilities

Facilities will allow to
reproduce operating
conditions

The center employs a permanent team of 4 R&D engineers which, with a total surface area of 3,000 m², will be able to carry out tests on 4 test furnaces: a fire-tube boiler, a water-cooled horizontal furnace, an induct furnace and a multi-configuration vertical furnace, with total installed power of 40 MW. This will allow them to reproduce industrial facility operating conditions.

The facilities not only allow them to test burners operating with natural gas, but also refinery gas, biogas and liquid fuels.

Fives sharing its
Combustion expertise
through a training
center and a showroom

The *Fives European Combustion Centre* will also host a training centre where the Group will share its process expertise with its clients in order to optimize their industrial facilities. It will offer training on security and maintenance of combustion facilities.

Finally, a commercial showroom presents the flagship combustion technologies developed by Fives and its most recent achievements.



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About Fives in Combustion

Fives designs and produces combustion systems for industrial processes and thermal and electrical energy production. This activity employs over one thousand people, mainly in France, Italy and the US.

Offered under the Pillard, ITAS and North American brands, Fives combustion technologies tackle key industrial challenges such as energy consumption, limiting pollutant emissions and production quality. The solutions developed by Fives are used by the largest manufacturers in the world in a variety of industrial sectors (cement & minerals, energy, oil & gas, metals).

About Fives

As an industrial engineering Group with a heritage of over 200 years, Fives designs and supplies machines, process equipment and production lines for the world's largest industrial players in various sectors such as steel, aerospace and special machining, aluminium, automotive and manufacturing industries, cement, energy, logistics and glass.

The effectiveness of its R&D programs enables Fives to design forward-thinking solutions that anticipate industrials' needs in terms of profitability, performance, quality, safety and respect for the environment.

In 2017, Fives achieved a turnover of €1.9 billion and employed close to 8,700 people in about thirty countries.



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