



2019  
**FIVES AT A GLANCE**





An industrial engineering group with multi-sector expertise, Fives designs and manufactures machines, process equipment and production lines for the world's biggest industrial groups.

The Group develops projects worldwide. Within a network of over 100 sites, the men and women at Fives meet industrial players' needs flexibly and responsively. Their expertise and robust experience enable them to manage end-to-end projects with a constant focus on compliance with deadlines and performance commitments.

Through effective R&D programs, Fives designs responsible industrial solutions that anticipate its clients' needs in terms of profitability, performance, safety and services.



More than **200** YEARS OF HISTORY

€**1,951** million  
OF sales



€**2,003** million  
OF order INTAKE



MORE THAN **100** SITES  
IN NEARLY **30** countries

€**34.1** million  
**R&D**  
+ INVESTMENT



Close to **8,700**  
employees

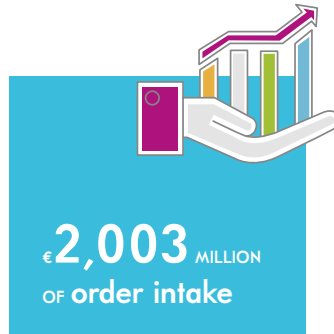
**2,113** patents  
IN FORCE AND **645** PATENT FAMILIES



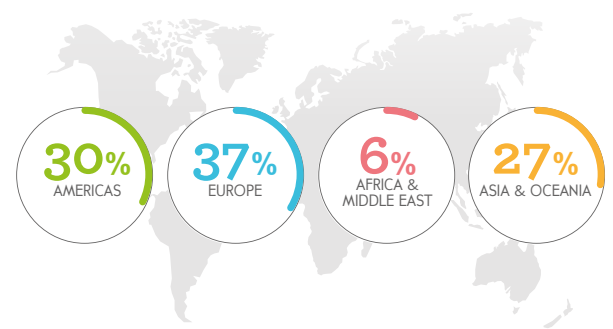


The Group's offer, which relies on a wide range of proprietary equipment, ranges from supplying machines and key process equipment to designing production workshops, full lines and services, for numerous industrial sectors.

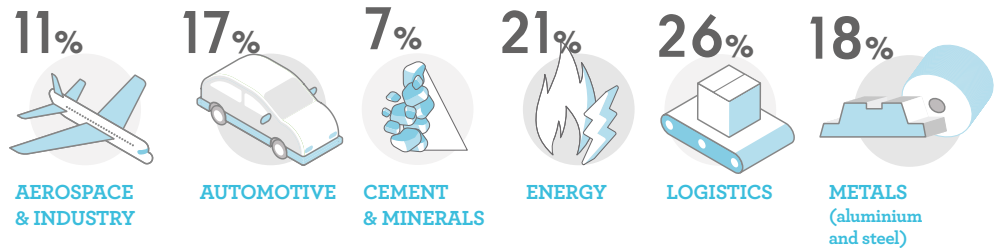
Fives uses its technological expertise to achieve industrial excellence. The Group supports its customers throughout the life cycle of their equipment or system thanks to a wide range of services that meet their specific needs. These solutions, some of which are based on digital technology, improve the availability, responsiveness and flexibility of the production system and the quality of the final product. Through its partnership with Visiativ, a ground-breaking software solutions publisher and integrator, Fives is able to provide industrial equipment manufacturers with after-sales service software solutions, ranging from online spare part sales to predictive maintenance services and functional optimization of machinery.



- DESIGN
- MANUFACTURE
- INSTALLATION
- COMMISSIONING
- PROJECT MANAGEMENT
- SERVICE
- MAINTENANCE



### Breakdown of order intake by market



### An offer at the service of many markets

AEROSPACE ALUMINIUM AUTOMOTIVE CEMENT & MINERALS  
CHEMICALS & PETROCHEMICALS ENERGY GENERAL MACHINING  
GLASS LOGISTICS OIL & GAS STEEL SUGAR [...]

Fives serves many industrial sectors and develops projects worldwide.

The Group's teams have technological expertise ranging from design and commissioning, to supply and installation, including a full range of services.



### ALUMINIUM

Process equipment and complete installations: Carbon and Reduction sectors. Casthouse furnace burners.

*ECL, Solios, North American*



### AUTOMATION

Complete automated and integrated systems: Assembly solutions, washers, conveyors, gantries, fasteners, interlinking and robotic handling solutions, software and traceability solutions.

*CentriSpray™, CFC, Cinetic, DyAG, ETFA*



### CEMENT | MINERALS

Core process technologies (equipment, systems, complete plants), revamping and customer services: crushing, grinding, pyroprocessing, combustion, gas treatment and control & optimization.

*FCB, Pillard, Solios*



### COMBUSTION

Burners, controls and customized combustion systems. Design, supply, construction and maintenance services for furnaces, heaters and steam generation units.

*ITAS, North American, Pillard*



### CRYOGENICS | ENERGY

*Brazed heat exchangers, cold boxes, cores-in-drums and cryogenic pumps for air separation, distribution, natural gas processing, LNG, olefins and petrochemicals, helium and filling systems.*

*Cryomec (cryogenic pumps)*



### CUTTING TOOLS | ABRASIVES

*Custom engineered diamond and cBN cutting tools; diamond dressing tools; conventional and superabrasive grinding wheels.*

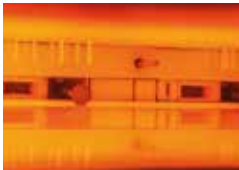
*CITCO Tools, CiBN™, Gardner Abrasives, TruGARD™*



### FILLING | SEALING

*Fluid filling, fluid tests and sealing equipment.*

*DeckerSealing™, RapidCharge®*



### GLASS

*Process equipment and complete lines for automotive glass, architectural glass, thin-glass and specialty glass (fiber, container, etc.) production.*

*Prium®*



**AddUp**  
GLOBAL ADDITIVE SOLUTIONS

## ADDITIVE MANUFACTURING

AddUp, a joint venture between Fives and Michelin launched in 2016, offers its customers complete industrial metal 3D printing solutions, from machine design and supply to services and advice on part production.

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



More information  
on Fives' business lines:  
[www.fivesgroup.com](http://www.fivesgroup.com)



### GRINDING | ULTRA PRECISION

Grinding solutions and machine tools for precision component manufacturers.

*Bryant, Cincinnati, Cranfield Precision, Daisho, Gardner, Giustina, GrinderCare<sup>SM</sup>, Landis*



### INDUCTION

Full range of induction heating and industrial cooling solutions.

*CELES CELINE (long steel products), CELES EcoTransFlux<sup>TM</sup> (flat steel products)*



### INTRALOGISTICS

Design and supply of automated solutions for internal logistics flows for a wide variety of markets: Food industry, distribution, e-commerce, postal and courier, and manufacturing industry.

*GENI-Belt<sup>TM</sup>, GENI-Flex<sup>TM</sup>, OPR<sup>®</sup>, Trace<sup>®</sup>, UltiView<sup>®</sup>*



### MAINTENANCE

Industrial maintenance services through contracts with performance objectives and maintenance engineering support services.



### METAL CUTTING | COMPOSITES

Metalworking machine tools, automated composites processing systems and complete manufacturing solutions.

*Cincinnati, Forest-Liné, Giddings & Lewis, Machine Tool Services & Solutions, Liné Machines*





### PIPING SOLUTIONS

*Complete tailor-made solutions for piping projects:  
Engineering, prefabrication, assembly and maintenance.*



### STEEL

*Process expertise, technologies and digital tools: strategic consulting, reheating furnaces, straighteners, cold rolling mills for stainless and silicon steels, and strip processing lines.*

*Bronx, CELES, DMS, North American, Stein*



### SUGAR | BIOENERGY

*Process equipment and process lines for sugar recovery and co-generation of electricity.*

*Cail & Fletcher*



### TUBE AND PIPE

*Welded tube mill lines, finishing equipment for both seamless and welded tubes and pipes, services.*

*Abbey, Bronx, OTO, Taylor-Wilson*



## DIGITAL TECHNOLOGY FOR HIGH ADDED-VALUE SERVICES

With Fives CortX, the Group has developed a service offer based on data processing. Suited to all industrial sectors, it combines use of production data and control of industrial processes.



A pioneer from the outset, Fives is committed to offering the best solutions available on the market, and to do so it relies on a portfolio of proprietary technologies.

The Group focuses its Research & Development programs on the development of technological solutions that meet industrial customers' performance needs in terms of environmental compliance, flexibility, machine uptime and end-product quality.

As it facilitates the management and maintenance of industrial production tools, digital technology is a major focus of the Group's R&D policy.



€34.1 million  
**R&D**  
INVESTMENT

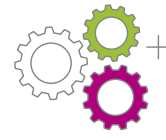
**45**  
new  
inventions  
PATENTED IN 2018



**2,113** patents  
IN FORCE AND 645 PATENT FAMILIES



**30** R&D  
AND **test**  
centers

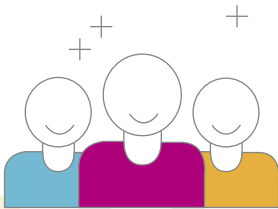




The women and men are the key to the Group's success. Fives seeks to create within its teams an entrepreneurial spirit, agility, commitment and customer focus, values which are written into its DNA.

In an effort to provide a challenging and motivating work environment for all of its people, Fives has implemented a HR policy based on dialogue, skill development and respect for diversity:

- **Dialogue:** Fives has developed opportunities for employees to exchange and discuss their careers during individual meetings/discussions.
- **Talent development:** Fives uses specific HR tools to offer its employees a career path where they will best be able to develop their potential and talent within the Group.
- **Promoting pluralism and diversity:** Diverse profiles, experiences and skills are one of the Group's wealth.



Close to **8,700**  
employees

**70**  
different  
nationalities

**70%**  
ARE ENGINEERS, MANAGERS,  
TECHNICIANS, DESIGNERS  
OR SUPERVISORS

Jobs and career prospects in many fields

**R&D DESIGN SALES**  
PROJECT MANAGEMENT  
**ON-SITE IMPLEMENTATION**  
SERVICE **SUPPORT** MAINTENANCE

Dialog  
Development  
Diversity

**45%**  
of women  
ARE ENGINEERS  
AND MANAGERS



**74%**  
of employees  
ATTENDED A TRAINING  
COURSE DURING THE YEAR



Fives' development is based on a responsible action plan in terms of ethics, security, environment and governance.

For ten years, Fives has deployed corporate social responsibility programs focused on three key commitments:

- **ENVIRONMENT**

Minimize Fives' environmental footprint and that of its clients: Eco-design & machine safety and environmental management.

- **ECONOMICS**

Promote fair practices in the marketplace: Ethical conduct & anti-corruption and sustainable partnerships

- **SOCIAL**

Provide a safe and motivating workplace: Health & Safety management, diversity and social benefits, skills & career management and monitoring employees' satisfaction.

In terms of Security, Fives has set itself ambitious targets. The Group develops actions and tools aiming to control risks on its sites and those of its customers and to strengthen the teams' culture of security.

## Ethics



### *Fives officially joined the United Nations Global Compact in 2011*

*This initiative is based on the promotion and implementation of 10 universal principles which offer a framework for compliance with Human Rights, labor and environmental standards, and anti-corruption measures.*



**Fives' Code of conduct** sets the principles and rules that govern the behavior of each Group employee.

## Safety & Environment

**3.41**  
accident  
frequency rate

(FIVES EMPLOYEES AND TEMPORARY WORKERS)

**0.12**  
severity  
rate

## Environmental footprint

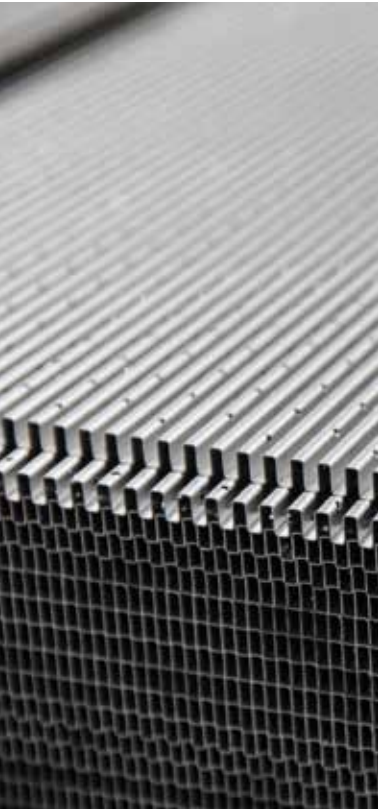
**75%** OF FIVES INDUSTRIAL SITES  
are certified ISO 14001



## Top 1% of the EcoVadis panel

*EcoVadis, an independent rating agency specializing in CSR, put Fives in the top 1% of suppliers for the sixth year in a row. Its assessment considers the company's performance in terms of the environment, social aspects, business ethics and responsible purchasing.*

**Fives'** offer relies on a wide range of proprietary equipment, ranges from supplying machines and key process equipment to designing workshops for the production of full lines and services, for numerous industrial sectors.



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