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

- €1,841 million of order intake
- £1,999 million of sales
- More than 8,400 employees
- £33.6 million R&D investment
- More than 100 sites in nearly 30 countries
- 1,952 patents in force and 609 patent families

As of Dec. 31, 2019
The Group’s offering, which is based on a broad range of proprietary equipment, extends from the provision of key process machines and equipment to the design of production workshops, complete lines and services, for a large number of 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. Fives also provides after-sales service management solutions from the online sale of spare parts to predictive maintenance and machine performance optimization services.
Order intake by region:

- **AMERICAS**: 26%
- **EUROPE**: 45%
- **AFRICA & MIDDLE EAST**: 8%
- **ASIA & OCEANIA**: 21%

Order intake by Activity:

- **HIGH PRECISION MACHINES**: 19%
- **PROCESS TECHNOLOGIES**: 41%
- **SMART AUTOMATION SOLUTIONS**: 32%
- **OTHERS**: 8%

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.

More information on Fives’ business lines: www.fivesgroup.com

HIGH PRECISION MACHINES

Through its High Precision Machines Division, Fives provides machine-tools that offer precision and flexibility to optimize the efficiency and quality of production.

AUTOMATED COMPOSITE SOLUTIONS
Automated composite processing solutions: tape laying and fiber placement systems.
Cincinnati, Forest-Liné, Lund Engineering

MATERIAL REMOVAL
Machining and metal cutting solutions: milling, turning, milling/turning, boring, robotic and smart system solutions.
Cincinnati, Forest-Liné, Giddings & Lewis, Liné Machines

GRINDING | ULTRA PRECISION
Bryant, Cincinnati, Cranfield Precision, Daisho, Gardner, Giustina, Landis

FILLING | SEALING
Fluid filling, fluid and leak test, and sealing equipment.
DeckerSealing™, RapidCharge®

LASER SYSTEMS
Laser welding, laser cutting, special purpose applications, additive manufacturing solutions.

CUTTING TOOLS | ABRASIVES
Custom engineered diamond and cBN cutting tools; diamond dressing tools; conventional and superabrasive grinding wheels.
CITCO Tools, CiBN™, Gardner Abrasives, TruGARD™

SERVICE
A full range of services dedicated to the performance of machine-tools throughout their life-cycle.
Global Services, Machine Tool Services & Solutions, GrinderCare

More information on Fives’ business lines: www.fivesgroup.com
Fives designs and supplies process expertise, key proprietary equipment, sustainable technologies and digital solutions enabling customers to continuously improve their performance and efficiency.

**ALUMINIUM**
ECL, Solios, North American

**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

**STEEL & GLASS**
**STEEL**
Process expertise, ground-breaking technologies and digital tools, supporting steel manufacturers ability to achieve the ultimate in performance excellence. Eyeron™, SmartLine, NeoKoil®, CELES EcoTransFlux™, AdvanTek®, Virtuo®, Stein Digit@l Furnace®, DMS 20Hi EcoMill™

**GLASS**
A recognized expert in melting and thermal conditioning technology for all types of glass. The offer also includes hot-ends, annealing lehrs and standalone equipment, as well as pre-engineering contracts and revamp projects. Prium®

**ENERGY**
**ENERGY | COMBUSTION**
Burners, controls and customized combustion systems. Design, supply, construction and maintenance services for furnaces, flares, heaters and steam generation units.
ITAS, North American, Pillard

**ENERGY | CRYOGENICS**
Brazed heat exchangers, cold boxes, core-in-drums and cryogenic pumps for air separation, distribution, natural gas processing, LNG, olefins and petrochemicals, helium and filling systems.
Cryomec® (cryogenic pumps)

**ENERGY | SUGAR**
Process equipment, process lines and services for sugar production 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
Fives is delivering smart automated solutions to meet all customer’s needs. With an extensive portfolio of proprietary technologies for the Courier Postal and E-commerce, Retail and Distribution, Food & Beverage, Baggage handling and General industries markets, Fives is addressing all applications requiring fast and smart automation solutions anywhere in the world.

**SMART AUTOMATION SOLUTIONS**

**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

**INTRALOGISTICS**
Meeting customers’ expectations thanks to outstanding 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™, GENI-Ant™, GENI-Flex™, OPR®, Trace®, UltiView®
TRANSVERSAL ACTIVITIES AND OTHER ACTIVITIES

FIVES CONNECT
Created as a joint-venture between Fives and Visiativ, Fives Connect is a global and flexible digital service platform (24/24 assistance, technical documentation, ticketing and driving of remote maintenance, sale of spare parts, etc.). It integrates data analysis and artificial intelligence solutions to reinforce the management and digital monitoring of installations and equipment.

FIVES CORTEX
A service offer based on data processing and AI. Suited to all industrial sectors, it combines use of production data and control of industrial processes.

FIVES MAINTENANCE
Industrial maintenance services through contracts with performance objectives and maintenance methods engineering solutions for operating equipment.

PIPING SOLUTIONS
Complete tailor-made solutions for piping projects: engineering, prefabrication, assembly and maintenance.

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

www.addupsolutions.com
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 is a major focus of the Group’s R&D policy.
€33.6 million R&D investment

1,952 patents in force and 609 patent families

46 new inventions patented in 2019

30 R&D and test centers

As of Dec. 31, 2019
Fives’ women and men are key to its success, and the Group fosters entrepreneurial spirit, agility, commitment and customer focus within its teams - all values that are part of 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.
Jobs and career prospects in many fields

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

More than 8,400 employees

65 different nationalities

17% of women are managers

70% of employees attended a training course during the year

As of Dec. 31, 2019
Since the creation of its CSR department in 2008, Fives has pursued a proactive policy in terms of social responsibility, in particular in areas relating to health and safety at work, business ethics and the environment.

In 2019, Fives strengthened its action on key challenges: combating climate change, developing technologies for the circular economy and contributing to the economic and social development of the regions where the Group is located.

These commitments are based on four pillars, and are implemented through several initiatives:

- **Minimizing the environmental footprint of Fives and its customers:**
  - Reducing environmental impacts on its sites
  - Improving customers’ environmental performance

- **Being an exemplary employer:**
  - Protecting the health and safety of the women and men working at Fives
  - Promoting diversity and guaranteeing equal opportunities

- **Contributing to local development:**
  - Supporting the local economy
  - Contributing to the integration of people remote from the labor market
  - Encouraging civic engagement among employees

- **Being a responsible economic player:**
  - Promoting fair behavior in our markets
  - Implementing a ‘Responsible Purchasing’ approach
79% of Fives industrial sites are certified ISO 14001

Fives’ Business Ethics Charter
outlines the rules of conduct, guidelines and ethical obligations that each employee must observe under all circumstances in their daily work.

Environmental footprint

Fives has been ranked in the Top 1% of the panel established by EcoVadis, an independent rating agency specializing in CSR, for the seventh year in a row. Its assessment considers the company’s performance in terms of the environment, social aspects, business ethics and responsible purchasing.

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.

Safety & Environment

3.39 accident frequency rate (Fives employees and temporary workers)

0.2 accident severity rate
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.