



fives

2021

**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.

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.

Every day, Fives works to make industry the answer to all challenges - a commitment enshrined in its sense of purpose, "Faire aimer l'industrie".

More than  
**200** years  
of history

€ **1,612** million  
of order intake



€ **1,610** million  
of sales



More than **8,000**  
employees



€ **28.8** million  
R&D investment



More than **100**  
sites in nearly **30** countries



**2,016** patents  
in force and **612** patent families





## Fives uses its technological expertise to achieve industrial excellence.

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.

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.



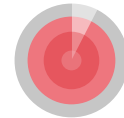
### Order intake by geographical area:



35%  
AMERICAS



38%  
EUROPE

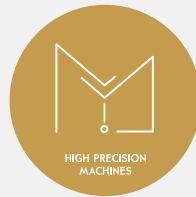


7%  
AFRICA  
MIDDLE EAST



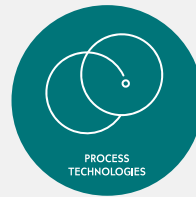
20%  
ASIA  
OCEANIA

### Order intake by Activity:



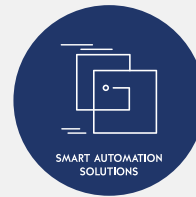
HIGH PRECISION  
MACHINES

17%



PROCESS  
TECHNOLOGIES

30%



SMART AUTOMATION  
SOLUTIONS

42%

OTHERS

11%

### An offer at the service of many markets:

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

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

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](http://www.fivesgroup.com)



## HIGH PRECISION MACHINES

Through its High Precision Machines Division, Fives provides complete machining solutions that offer precision and flexibility to optimize the efficiency and quality of production.



### SERVICE

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



### COMPOSITES & AUTOMATED 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, mill/turn, boring, robotic and smart solutions. Laser welding, laser cutting, special purpose applications and additive manufacturing solutions.

Cincinnati, Dufieux, Forest-Liné, Giddings & Lewis, Liné Machines



### GRINDING | ULTRA PRECISION

Grinding solutions and precision machine-tools: Orbital, Centerless, Surface, ID/OD and Ultra-precision machines. Conventional and superabrasive grinding wheels. Custom engineered diamond and cBN cutting tools; diamond dressing tools.

Bryant, Cincinnati, Cranfield Precision, Daisho, Gardner, Giustina, Landis, CITCO Tools, CiBN™, Gardner Abrasives, TruGARD™



### FILLING | SEALING

Fluid filling, fluid and leak test, and sealing equipment.

DeckerSealing™, RapidCharge®



## PROCESS TECHNOLOGIES

Process expertise, key proprietary equipment, sustainable technologies and digital solutions enabling customers to continuously improve their performance and efficiency.

### ALUMINIUM



Process equipment, digital solutions and complete installations for Carbon and Reduction sectors. Casthouse furnace burners.

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

### ENERGY



#### ENERGY | COMBUSTION

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

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 hydrogen.

Cryomec® (cryogenic pumps)



#### ENERGY | SUGAR

Process equipment, process lines and services for sugar production and co-generation of electricity.

Cail & Fletcher

### STEEL & GLASS



#### STEEL

Process expertise, digital solutions, reheating and heat treatment furnaces, cold rolling mills and complete strip processing lines for carbon, stainless and silicon steels.

Winner of Fastmarkets Global Awards for Steel Excellence in 2020.



#### TUBE AND PIPE

Market leader in ERW tube production equipment and finishing equipment for seamless and welded tubes and pipes.

Abbey, Bronx, OTO, Taylor-Wilson



#### GLASS

E-melting and E-boosting systems, oxy-fuel and hybrid furnaces, glass conditioning systems (working ends and forehearth), float process expertise, hot-ends and annealing lehrs.

Prium® E-Melt, Eco-Flex & Float-Melt, BH-F Forehearth & Working End



## SMART AUTOMATION SOLUTIONS

Smart automated solutions 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.



### AUTOMATED SOLUTIONS FOR MULTIPLE INDUSTRIES

State-of-the-art automation solutions to answer the needs of a wide range of industries (postal and courier, e-commerce, retail & FMCG, automotive, airports and manufacturing industry) integrating innovative technologies and equipment: sorters, singulators, AMRs (Autonomous Mobile Robots, conveyors, automated AS/RS - storage and retrieval systems), industrial washers, assembly and robotic handling systems, palletizing and depalletizing robots.

CentriSpray™, GENI-Belt™, GENI-Ant™, GENI-Flex™, OPR®, Trace®, UltiView®



### SOFTWARE

Large range of intralogistics management software (warehouse management system - WMS - and warehouse control system - WCS) backed by superior technical expertise and advanced data capabilities to control and coordinate material flows, monitor and automate production, optimize operations and maximize quality and performances.

SU® Warehouse Management System (WMS), SU® Warehouse Control System (WCS), SU® Manufacturing Execution System (MES), Material Flow Controller (MFC), Palletization software, AMR fleet management, vision solutions, Smart data, Digital Twin, Software products & services





## 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 CORTX



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

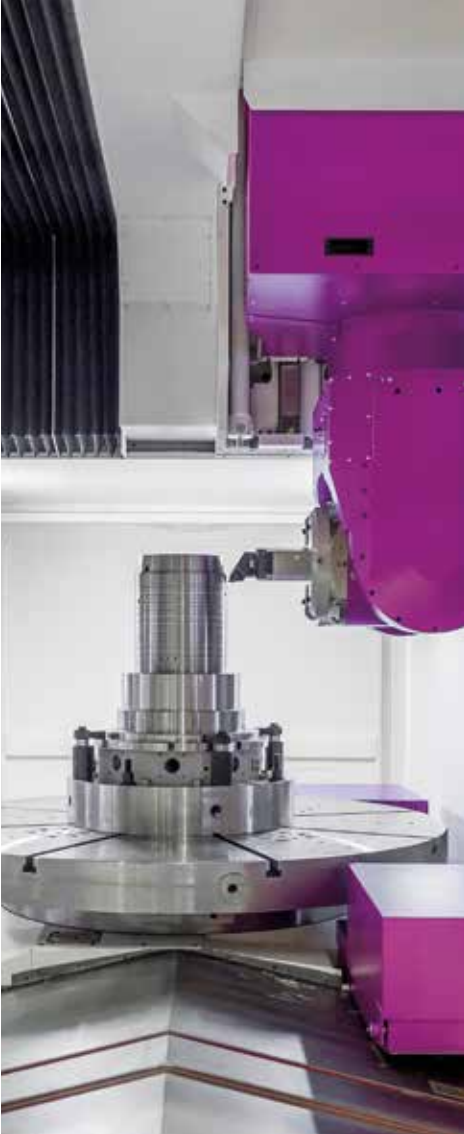
AddUp, a joint venture between Fives and Michelin, offers its customers complete industrial metal 3D printing solutions, from machine design and supply to services and advice on part production.

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



The Group focuses its Research & Development work on developing solutions that meet the need for sustainability and industrial performance, throughout the equipment's life cycle, thanks to a portfolio of proprietary technologies.

Environmental protection, flexibility, machine availability, the quality of the finished product: the Fives teams' thorough understanding of industrial processes enables to meet these challenges and optimize the use of installations. To achieve this, the Group increasingly relies on digital technology.



€ **28.8** million  
R&D investment



**50**  
new inventions  
patented in 2020



**2,016** patents  
in force and **612** patent families



**31** R&D  
and test centers





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 continually expand on the Group's abundance of diversity in the workplace.

# Jobs and career prospects in many fields

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





Fives has a proactive policy in terms of social responsibility, in particular in areas relating to health and safety at work, business ethics and the environment.

As a player in the low-carbon transition, the Group strives to design the most advanced solutions and to help its customers improve their environmental performance through a Climate strategy.

The Fives CSR commitments are based on four pillars:

- Minimizing the environmental footprint of Fives and its customers
- Being an exemplary employer
- Contributing to regional development
- Being a responsible economic player



*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' 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

**80%**  
of Fives industrial sites  
are **certified ISO 14001**



### Safety & Environment

**2.65**  
**accident frequency** rate (Fives  
employees and temporary workers)



## 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.

**4**

**Fives solutions** have received the **"Solar Impulse Efficient Solution"** label



**0.1**

accident **severity rate**





# fives

Industry can do it

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

## Fives

Simplified joint stock company

Share capital €102,723,764

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