



AEROSTAR

Powering Performance
with Digitalization



HIGH PRECISION
MACHINES

MATERIAL REMOVAL

AEROSTAR



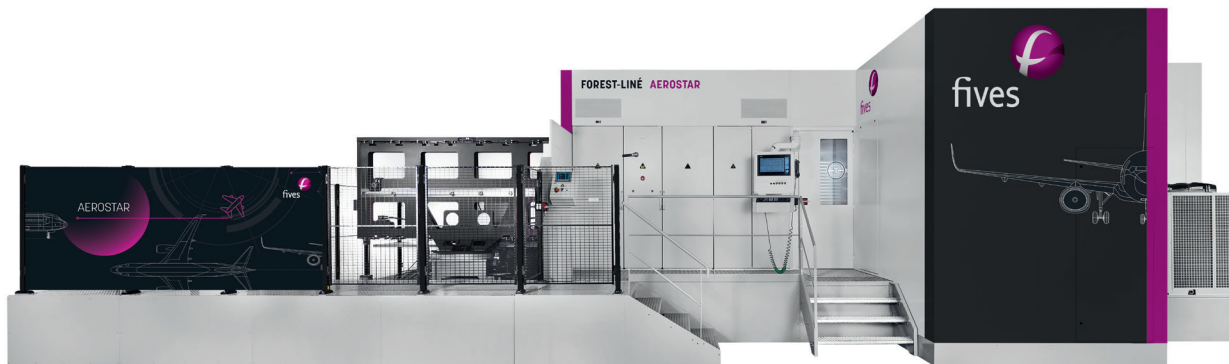
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AEROSTAR



fives

AEROSTAR



Thanks to an unmatched level of automation, the new-generation AEROSTAR is a high-end powering equipment designed for the mass production of structural workpieces for the aerospace industry.

This large-part milling machine tool offers ultimate productivity and best-in-class manufacturing processes. The High-Speed 5-Axis Horizontal Machining provides the perfect solution for rapidly removing large volumes of material, such as aluminum alloys. The closed structure ensures high rigidity while significantly reducing the effects of temperature rises, thus providing the best manufacturing accuracy and geometrical stability. Meanwhile, the mobile pallet system ensures the secure and efficient loading and unloading of complex parts.

This new-generation AEROSTAR offers the market the most efficient, dynamic, and versatile solution.

01 Smart control

02 Smart machining

03 Smart design



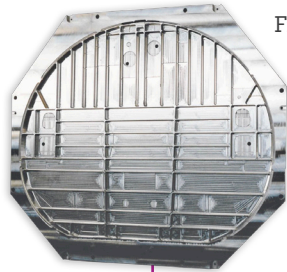
AEROSTAR

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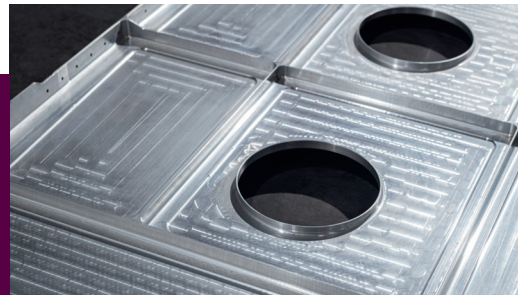
Mass production of structural workpieces for aerospace



Spar



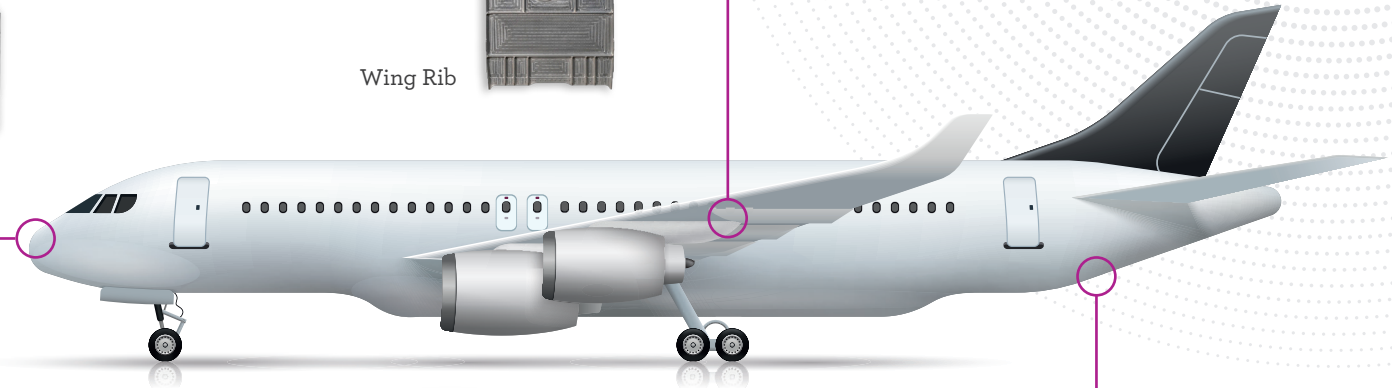
Front Panel Nozzle



Wing Rib



Wing Rib



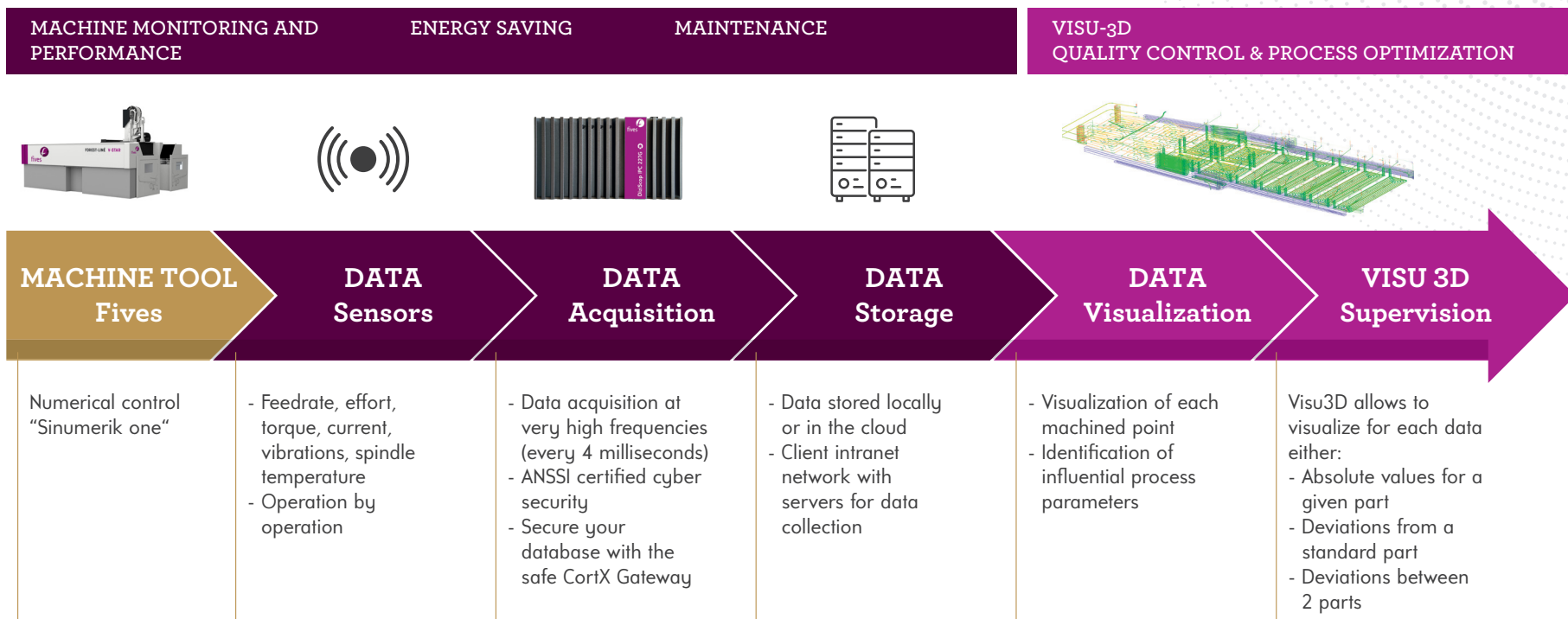
Fuselage Frame

Along with complete life-cycle support, assistance, and solid technological collaboration, AEROSTAR can be customized on request to meet the highest industry standards and quality.

The dynamic stiffness ensures the accuracy of the machine and allows the manufacturing of outstanding surface quality and high-precision finished parts.

VISU 3D - Master your machining process & Optimize your costs

Industrial performance: your 4.0 connected machine tool





Up to
-30%

INDUSTRIALIZATION

Reduction in the number of iterations up to validation of parts for industrial production

Up to
-10%

MACHINING CYCLE

Optimization of trajectories and cutting conditions

Up to
-60%

QUALITY CONTROL

Improving the monitoring plan as needed

VISU 3D - Fast, easy and precise visualization of your machining

Correlate process data with part quality



Reduce total time and optimize your costs

Industrialization - Machining - Final control

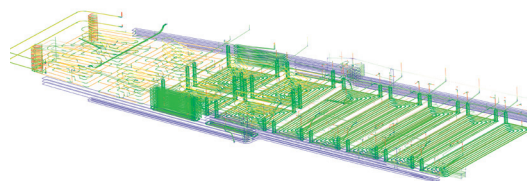
1

Improve the quality of your parts

2

Master traceability

3



Visu 3D - All Fives solutions
Manage your quality thanks to machined part 3D visualization

Real time data monitoring while machining: capturing the position of the cutting point and quality/ process metrics at the same time to create a 3D view of the product.

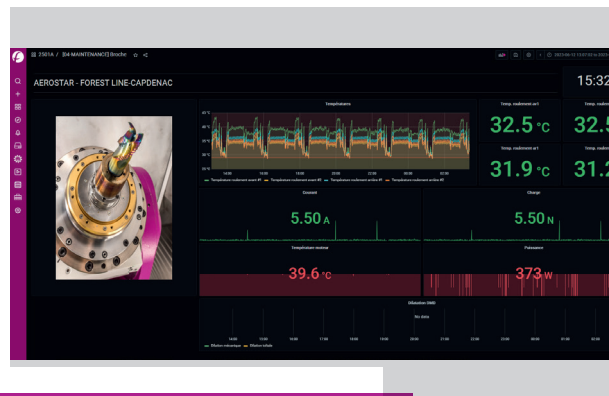
Smart control



INTUITIVE OPERATIONS

QUICK AND USER-FRIENDLY

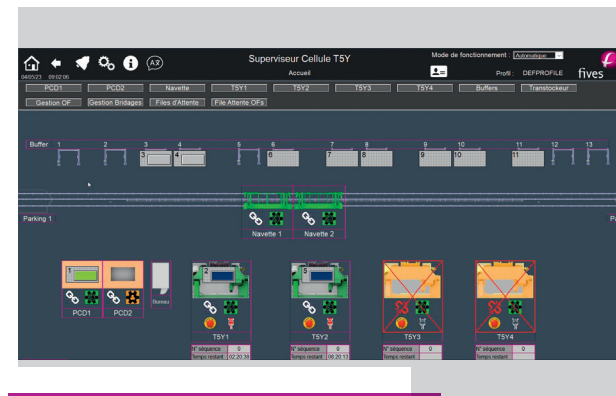
- High-end operator panel and intuitive interface
- Production control, traceability
- Preventive maintenance
- Easy migration of existing programs



CONNECTED SOLUTION

EASY SOFTWARE

- Process and production optimization thanks to process visualization
- Connectivity: OPC-UA / IO-Link
- Data collection: Fives CortX / Dizisoft
- Fives consulting: experts support



SUPERVISION SOFTWARE

FM SUPERVISOR

- Optimize the production flow on large diversity of parts type
- Ergonomics, simple operations designed for operators
- Supervision system customized to your needs, evolutive system
- Excellent expertise with more than 30 years of experience in Fives supervision

The new AEROSTAR Machining Center demonstrates how powering performance with digitalization has brought industrial processing solutions to the next level.

Smart machining



MAXIMUM PRODUCTION, MINIMUM EFFORT

FMS FLEXIBLE MANUFACTURING SYSTEM

- Automated solution, simple, robust and reliable
- Automatic tool changer up to 180 tools expandable through centralized management and distribution of Fives tools



MRR HIGH METAL REMOVAL RATES

HIGH SPEED 30,000 RPM AND HIGH-POWER 125 KW

- MRR up to 12 liters per minute
- Linear motors with high performance
- 5-Axis motor with High-Torque rotary 1500 Nm



HIGH QUALITY AND ACCURACY

HIGH-PRECISION FINISHED PARTS

- Highly dynamic and stiff machine
- Outstanding surface quality
- High repeatability and consistent quality
- Highly accurate, clean and dry parts

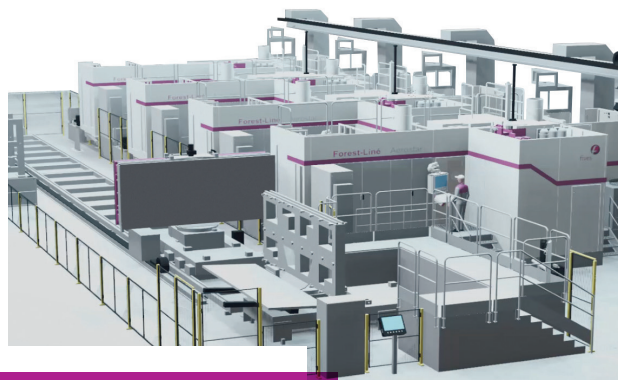
Smart design



SAFE MACHINE

EASY OPERATIONS

- Easy access on all pallet, high ergonomics
- TPM Total Productive Maintenance: low-maintenance and low operation cost
- Easy maintenance, kinematics A&C
- Support in TCO Total Cost Ownership: low energy, low maintenance
- Services: availability of spare parts



HIGH VERSATILITY

FLEXIBLE CONFIGURATION: STAND ALONE OR FMS

- From simple to complex parts, wide pallet 2 m x 4 m
- Pallet customizable to fit with your existing parts support
- Automatic change of angular heads
- Compact solution with the twist and tilt station Fives PATENTED is an all-in-one setup station and machine loading/unloading device, with minimal footprint 9 m x 16 m
- Plug&Play installation



SUSTAINABLE OPERATIONS

MADE TO LAST, FIVES DESIGN EXPERTISE

- No chips or residual oil on parts
- Drastic reduction of power consumption during production thanks to data expertise
- Designed and produced in France, heavy duty engineering, high-quality manufacturing, 5-Axis head made by Fives
- Made with more than 150 years experience in machine-tools

DEMO CENTER, Capdenac, France
Experience in-depth demonstrations of the new AEROSTAR

Discover how the new AEROSTAR, 5-axis horizontal milling machine, delivers exceptional productivity and high precision



AEROSTAR | SPECIFICATIONS

Parts support

FMS with automated pallet change, Milling table, FlexiTool, dedicated Fixture

Size 2 m 4 m - 75 in x 157 in
Type Cast iron or steel weldment

Max part

Size 2 m x 4 m x 0,43 m -
75 in x 157 in x 16 in
Max load 4 tons

X Axis (Table)

Travel / Stroke 4500 mm - 177 in
Speed / Feed rate 80 m/min - 3149 ipm

Y Axis (Saddle)

Travel / Stroke 2500 mm - 98 in
Speed / Feed rate 60 m/min - 2362 ipm

Z Axis (Ram)

Travel / Stroke 750 mm - 29 in
Speed / Feed rate 60 m/min - 2362 ipm

Acceleration up to 7.5 m/s² - up to 295 in/s²

C Axis (Rotary)

Travel / Stroke +/- 360°
Speed / Feed rate 40 rpm

A Axis (Rotary)

Travel / Stroke +/- 110°
Speed / Feed rate 20 rpm

Acceleration 1200°/s²

Wide range of spindles upon request

Max Power (SI) 125 kW
Max Torque (SI) 60 Nm
Max Speed 30 000 rpm
Taper HSK

AEROSTAR



GLOBAL SERVICES

OPERATION

- OEM spare parts and other brands
- Customer support 7 days a week
- Preventive maintenance
- Sub-assembly repair
- Workshop machinery relocation

OPTIMIZATION

- Certified training
- Consulting (setting-up, operation...)
- Expertise and certifications
- Process optimization

EVOLUTION

- Refurbishment - Machine rebuilding
- Mechanical transformation
- Retrofit (NC and automation)
- Retooling
- Obsolescence management



50 field technicians and experts

3 000 parts items in stock in Europe

3 shops floor dedicated to refurbishment



fives

Industry can do it

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