



MAJORSTAR

Outstanding Performance
for Large parts



MATERIAL REMOVAL

MAJORSTAR



MAJORSTAR



Data is not binding. Non-contractual pictures. The manufacturer reserves the right to make modifications without notice. © FIVES MACHINING S.A. 2026

MAJORSTAR



Need to elevate your manufacturing level?
MAJORSTAR is your game-changing solution.

Processing the largest aluminium parts, its innovative gantry architecture ensures optimal rigidity, delivering precise, powerful, and accurate results. The horizontal spindle leads chip evacuation for seamless production, enabling fast and efficient workflows. With active thermal compensation, MAJORSTAR maintains consistent dimensional stability. **Designed for the toughest and largest applications, MAJORSTAR opens new ways for unmatched performance.**

Smart control

Smart machining

Smart design



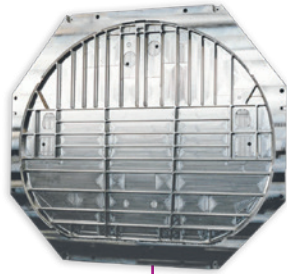
MAJORSTAR

Data is not binding. Non-contractual pictures. The manufacturer reserves the right to make modifications without notice. © FIVES MACHINING S.A. 2026

Mass production of structural workpieces for aerospace



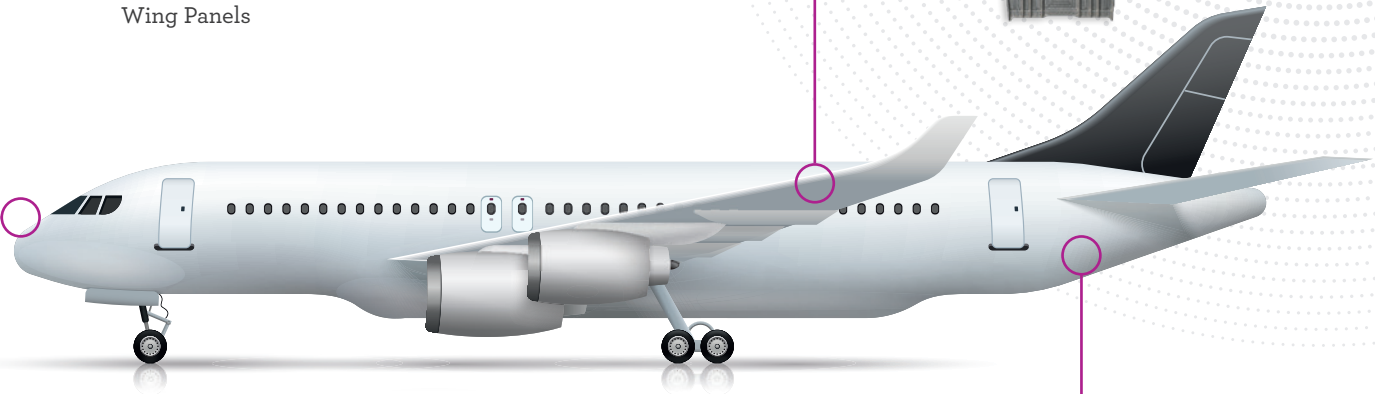
Spar



Front Panel Nozzle



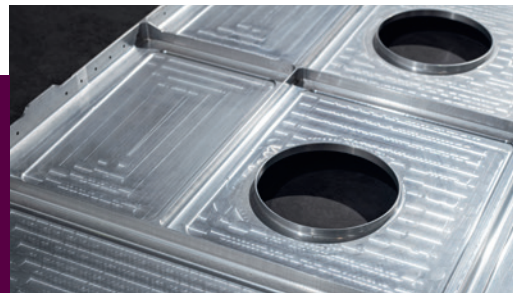
Wing Panels



Wing Rib



Fuselage Frame



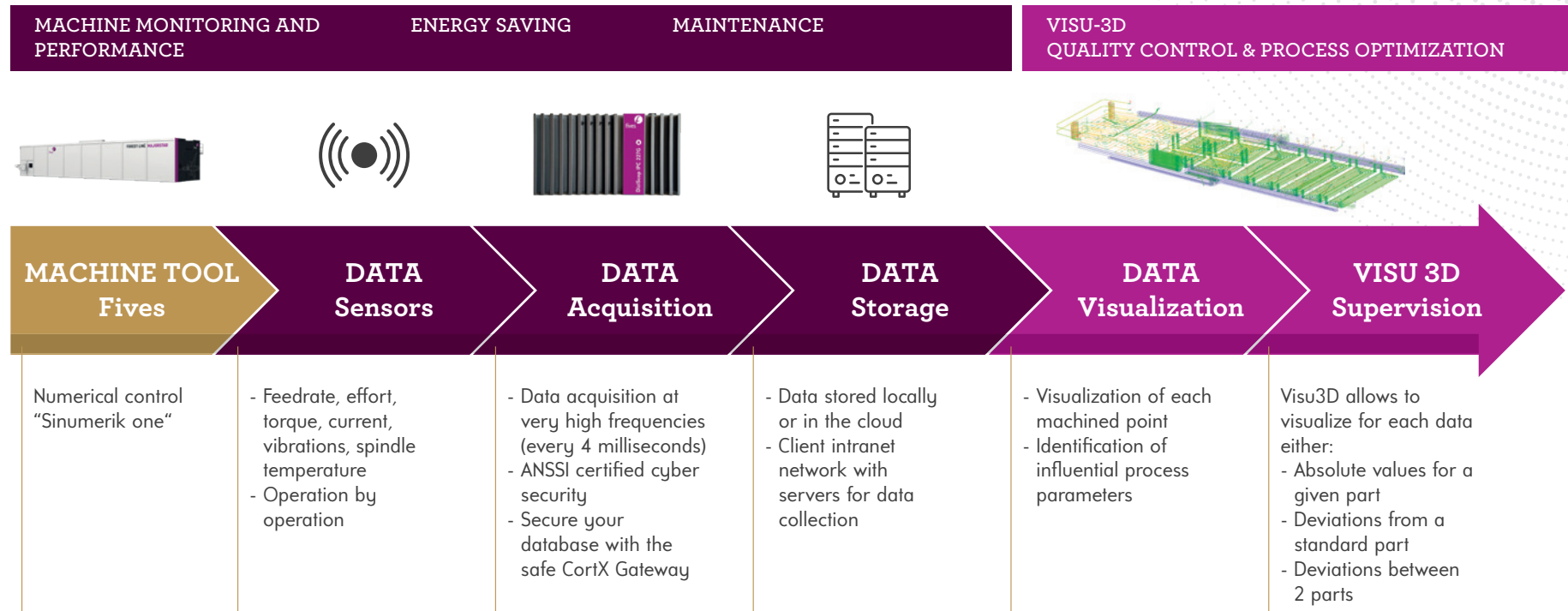
Wing Rib

Along with complete life-cycle support, assistance, and solid technological collaboration, MAJORSTAR 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%

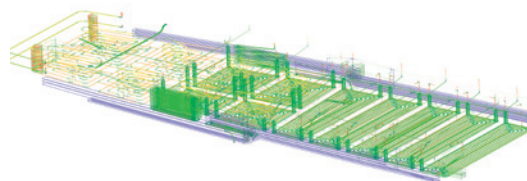
MACHINING CYCLE

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 data

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.

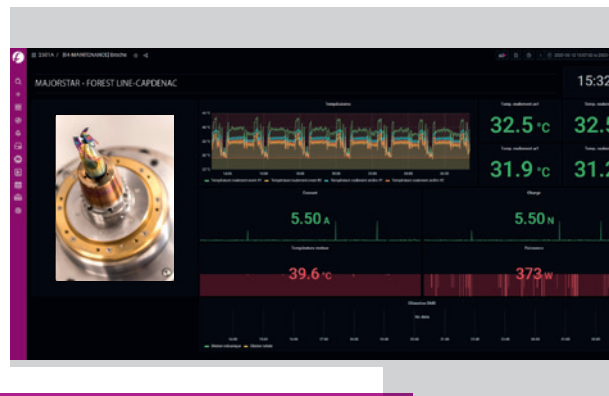
Smart control



INTUITIVE OPERATIONS

QUICK AND USER-FRIENDLY

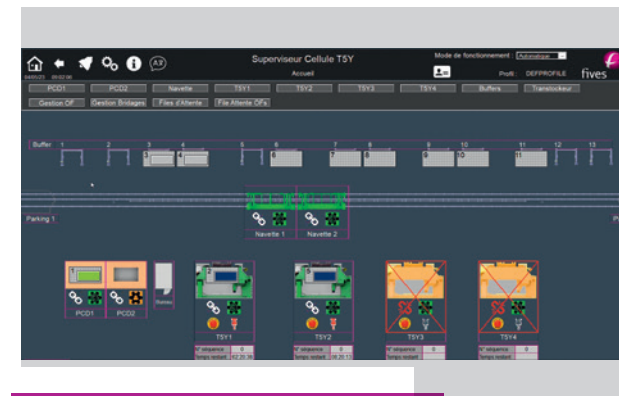
- High-end operator panel and intuitive interface
- Production control, traceability
- Preventive maintenance
- Easy migration of existing programs



CONNECTED SOLUTION

EASY SOFTWARE

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



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

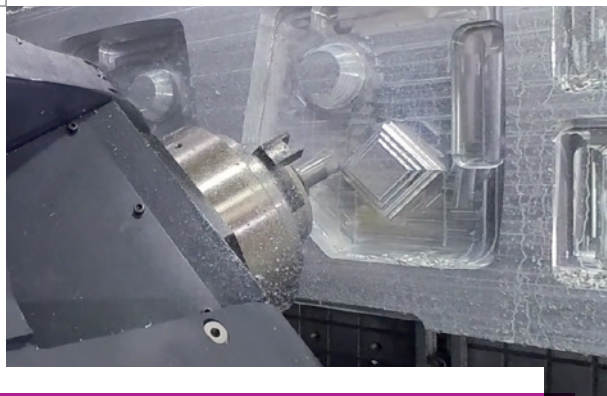
Smart machining



MAXIMUM PRODUCTION, MINIMUM EFFORT

FMS FLEXIBLE MANUFACTURING SYSTEM

- Automated solution, simple, robust, and reliable
- Automatic tool changer up to 250 tools (20 additional storage available) 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 motor with high performance
- 5-Axis milling head with 1500 Nm Torque motor



HIGH QUALITY AND ACCURACY

HIGH-PRECISION FINISHED PARTS

- High dynamic stiffness machine
- Outstanding surface quality
- High repeatability and consistent quality
- High 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 21 m
- Pallet customizable to fit with your existing parts support
- Automatic change of angular heads
- Flexible and scalable 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 of experience in machine-tools



MAJORSTAR | SPECIFICATIONS

Parts support

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

Size Up to 21,000 mm x 2,500 mm
Up to 826.77 in. x 98.43 in.
Up to 11,000 mm x 3,600 mm
Up to 433.07 in. x 141.73 in.

Type Cast iron or steel weldment

Max part

Size Length - 20,000 mm - 787.40 in.
Width - 3,500 mm - 137.80 in.
Thickness - 350 mm - 13.78 in.

Max load Up to 14 tons

X Axis (Table)

Travel / Stroke 4,500 to 21,000 mm
177.17 in. to 826.77 in.
Speed / Feed rate 60 m/min - 2362 ipm

Y Axis (Saddle)

Travel / Stroke 2,500 to 3,600 mm
98.43 in. to 141.73 in.
Speed / Feed rate 40 m/min - 1575 ipm

Z Axis (Ram)

Travel / Stroke 650 mm - 25.59 in.
Speed / Feed rate 40 m/min - 1575 ipm
Acceleration up to 5 m/s² - up to 295 in/s²

C Axis (Rotary)

Travel / Stroke +/- 360°
Speed / Feed rate 30 rpm

A Axis (Rotary)

Travel / Stroke +/- 110°
Speed / Feed rate 30 rpm
Acceleration 2500°/s²

HF-Spindle

Max Power (S1) 125 kW
Max Torque (S1) 60 Nm
Max Speed 30 000 rpm
Taper HSK

MAJORSTAR



OUR EXPERTS AT YOUR SERVICE



50 Field technicians and experts
3 000 Part items in stock in Europe
3 Shop floors dedicated to refurbishment



OPERATION

- Spare parts
- Customer support 7 days a week
- Preventive maintenance
- Sub-assembly repair
- Workshop machinery relocation



OPTIMIZATION

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



EVOLUTION

- Complete machine modernization
- Mechanical transformation
- Refurbishment (NC and automation)
- Retooling
- Obsolescence management



fives

Industry can do it

CONTACT US

Fives Machining
44, boulevard François Mitterrand
12700 Capdenac, France
Tel.: +33 (0)5 65 63 80 27
fmg.contact@fivesgroup.com

www.fivesgroup.com