

Forest-Liné V-Star

High speed vertical machining center



The Forest-Liné V-Star solution combines high-speed cutting and multi-material capability for the processing of large parts requiring high productivity and accuracy.

- High speed cutting machine from 3 to 40 m / from 20 to 125 kW
- Reduces the noise and maintenance thanks to linear motors
- Dedicated protection for carbon fiber and composite materials
- Dynamics process with high feedrates and possibility of fast accelerations
- Highly stiff structure
- Accurate machining thanks to the direct measuring of movements

Over 150 High Speed cutting machines in production worldwide

Thanks to its experience in the cutting technology, Fives designs high speed cutting solutions adapted to each market's unique requirements, in particular for the aerospace and automotive applications.

The **Forest-Liné V-Star** offers a high dynamic accuracy allowing to produce parts with a rapid production throughput. This capacity to process extremely long and wide parts as well as the combination of milling, trimming and drilling is perfectly adapted to the processing of aircraft structures, wing panels and boat hulls.

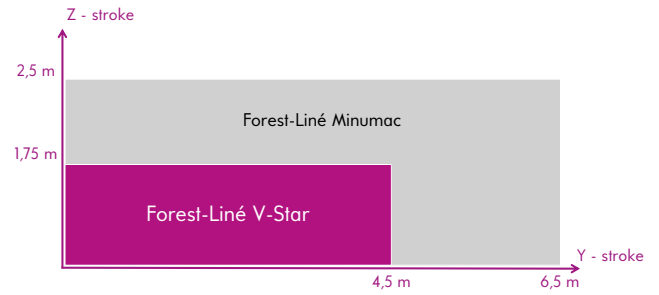
For all vanguard applications, this high velocity solution can efficiently process different materials, composites, resins, alloys and hard metals from the rough to the finish milling.

OPTIONS

- Forest-Liné FLEXITool
- Trimming Milling Effector
- Retractable/telescopic roof
- Automatic tool changers
- Vacuum Shroud Automatic Change
- Dust Extraction System
- Twin spindles and/or twin gantries
- Floor table
- Others on request

FEATURES

- User-friendly integrated HMI: FL Vision
- Linear motors on X and Y-axis
- CNC: SIEMENS 840D sl
- Direct measuring system
- Eco design
- CE certification



- Continuous 5 axis milling head**
- Power: up to 125 kW
 - Torque: up to 163 Nm
 - Spindle: up to 30,000 rpm

FOREST-LINÉ V-STAR SPECIFICATIONS

| X Axis (Longitudinal) | |
|--------------------------------|--|
| Travel | 2.9 m to 40 m |
| Feedrate | 60 m/min |
| Acceleration | 1.5 m/s ² to 3 m/s ² |
| Y Axis (Horizontal) | |
| Travel | 2 m to 4.5 m |
| Feedrate | 60 m/min |
| Acceleration | 1.5 m/s ² to 3 m/s ² |
| Z Axis (Longitudinal) | |
| Travel | 0.75 / 1 / 1.25 / 1.5 / 1.75 m |
| Feedrate | 40 m/min |
| Acceleration | 1.5 m/s ² to 3 m/s ² |
| C Axis (Rotary) | |
| Travel | +/- 400 deg; n x 360° |
| Speed | Up to 40 rpm |
| A Axis (Rotary) | |
| Travel | +/- 110 deg |
| Speed | Up to 40 rpm |
| Continuous 5 axis Milling Head | |
| Power | Up to 125 kW |
| Torque | Up to 163 Nm |
| Spindle | Up to 30,000 rpm |

SOME REFERENCES

Avic — Dassault Aviation — Figeac Aero — KnAAZ — Sabca — Skoda — Sukhoi



CONTACT US

Fives Machining - Forest-Liné Capdenac facility

44, boulevard François Mitterrand - 12700 Capdenac - FRANCE - Tel.: +33 (0)5 65 63 80 27 - www.fivesgroup.com

mcc-europe@fivesgroup.com - mcc-china@fivesgroup.com - mcc-asean@fivesgroup.com

mcc-russia@fivesgroup.com - mcc-americas@fivesgroup.com