

Forest-Liné Modumill

Heavy Duty Gantry Mill



The Forest-Liné Modumill is a powerful, robust solution for medium to large capacity machining, providing high accuracy and long term reliability: up to 60 kW and 2500 Nm.

The machine is available in various customized configurations: moving table, moving gantry, fixed or moving cross rail, mill-turn rotary plate...

- Spindle motor up to 60 kW / 2 500 Nm (S1)
- Wide variety of milling heads available
- Key components such as milling heads and turning table designed and manufactured in-house
- The structure has been engineered focusing on:
 - Thermal stability
 - High accuracy over time
 - Durability of the components
- Highly stiff structure and optimized damping
- Automatic docking heads for milling
- Customizable with many peripherals
- Highly efficient user-friendly interface
- Advanced features for secure machining process

“Over 200 Heavy Duty Gantry Mill machines in production worldwide”

The Forest-Liné Modumill is the first one of the range with a modular design, covering 40 to 60 Kw (S1).

The modular design can be adapted in various ways to suit all special requirements:

Travel lengths can be adjusted; the machine can be supplied with a fixed or adjustable cross rail for machining parts with various heights.

The machine may be configured with separate working areas: pendular machining for increased productivity. To further enhance flexibility, made-in-house rotary plates may be integrated into the machine floor plate.

The wide choice of milling heads, the ability to customize on-request and to achieve complex and demanding machining tasks offers a wide potential for numerous applications.

The machine is available with 3 + 2 axes or as a full five-axis and can be equipped with an automatic head changer.

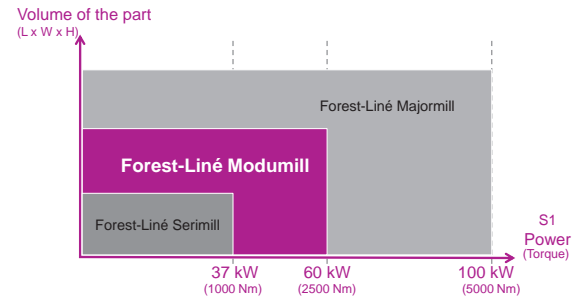
Based on a stable and accurate structure, the Forest-Liné Modumill series offers a very versatile solution for high performance production needs.

OPTIONS:

- Indexed or continuous cross rail (W axis)
- Milling or Mill-Turn rotary plate
- Pendular machining
- Automatic spindle head changer
- Automatic tool changer
- Tool management system
- Spindle-mounted probe
- Integrated tool calibration laser
- Chip conveyors
- Coolant systems
- Mist collection system
- Full enclosure
- CNC: Heidenhain or Fanuc
- Power adaptive control
- Production securing pack
 - Collision detection device
 - GFACS: Geometry auto-calibration
- FMS cell automation
- Engineering service/Production support
- Others on request

FEATURES:

- CNC: SIEMENS 840D sl or HEIDENHAIN iTNC
- User-friendly integrated HMI: FL Vision
- Direct measuring system
- C-axis integrated in the ram
- Eco design
- EC certification



Forest-Liné Modumill specifications

X Axis (Longitudinal)	
Feed rate	Up to 30 m/min (1 200 in/min)
Travel	4 m to 50 m (13 to 165 ft)
Y Axis (Horizontal)	
Feed rate	Up to 30 m/min (1 200 in/min)
Travel	3.5 m to 6.5 m (11 to 20 ft)
Z Axis (Vertical)	
Feed rate	Up to 30 m/min (1 200 in/min)
Travel	800 to 2 m (36 to 80 ft)
W Axis (Vertical)	
Feed rate	1 m/min (40 in/min)
Travel	1 to 3.5 m (3 to 11 ft) Indexing or continuous ;
C Axis (Rotary)	
Feed rate	Up to 10 rpm
Travel	Indexing (0.001°, 1°, 2.5°) or continuous ; +/- 200 deg; n x 360°
A Axis (Rotary)	
Feed rate	Up to 10 rpm
Travel	Indexing (0.001°, 1°, 2.5°) or continuous (+/- 110 deg)
Milling Head - Gear driven Spindle	
Power	Up to 60 kW (80 hp)
Torque	Up to 2 500 Nm (1 844 lbf.ft)
RPM	Up to 6 000 rpm

Some references for Fives machining solutions: ABG, Alstom Transport, Amada, AMF, Avic, Avtovaz, Bunorm, CASC, Caterpillar, CNR Datong Locomotive, Comexi, Daimler Chrysler, DCNS, Hanjin, Harbin Electrical, Herzer, ITP, Karl Mayer, Knaapo, Kronen, LYD, MBN, Metka, Mecanergie, PSA, Remmele, Semt Pielstick, SMP, Trumpf, Vai Clecim, Wifag, Willinghofer

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