

Liné Machines Powermill V

High Rail Gantry Mill



The Liné Machines Powermill V - the smart solution for processing of extremely long, wide and tall parts.

For rapid production throughput, mill, drill, bore and tap components with precision and speed on the Liné Machines Powermill V high-rail vertical profiler.

- 5-axis / 5-sided contour part processing
- High dynamic accuracy
- Rapid, precise production throughput
- Capacity to process extremely long, wide and tall parts: lay-up tools, aircraft structures and wing panels
- Capacity to efficiently process different materials: aluminum, composite, invar and titanium

“Customizing while keeping commonality”

The Liné Machines Powermill V is designed to mill, drill, bore, and tap aircraft components (aluminum, composite, fibers, plastics, and more), and also for semi-finishing and finishing operations on titanium and hard metal (moulds and dies, forging and more.)

The Liné Machines Powermill V lightweight and rigid construction of the mobile structure allows for a smooth movement that guaranties accuracies and an excellent surface finish of the machined parts when operating at high feed rates and acceleration.

The Liné Machines Powermill V can be equipped with a range of versatile peripheral equipment and spindles that provide high horsepower as well as high torque at lower RPM. This permits efficient machining of a wide range of “soft and hard” materials on the same machine tool.

ERGONOMIC:

- Automated Pallet system
- Retractable roof

HEAD & TOOLS:

- Automated head changer
- Automated tool changer
- Tool management
- Tool probe

PARTS:

- Part probe
- Flexible UHF tooling
- Chip/dust evacuation
- Thermal compensation
- Multiple working zones

CONTROL & SAFETY

- Health check cycle
- Maintenance Platform
- Power adaptive control
- Power failure back-up
- Full enclosure

COOLING & FUMES

- Coolant systems
- Mist collection system



X Axis Longitudinal

Feedrate	Up to 75 m / min (3 000 in/min)
Acceleration	Up to 5 m/s ² (200 in/s ²)
Travel	4 m to 50 m (13 to 165 ft)

Y Axis Horizontal

Feedrate	Up to 75 m / min (3 000 in/min)
Acceleration	Up to 5 m/s ² (200 in/s ²)
Travel	2.5 m to 8 m (8 to 26 ft)

Z Axis Longitudinal

Feedrate	Up to 75 m / min (3 000 in/min)
Acceleration	Up to 5 m/s ² (200 in/s ²)
Travel	1 m to 3 m (40 to 120 ft)

C Axis Rotary

Feedrate	Up to 50 rpm
Travel	+/- 400 deg

A Axis Rotary

Feedrate	Up to 30 rpm
Travel	+/- 110 deg

Milling Head - Electro-Spindle

Power	Up to 150 kW (200 hp)
Torque	Up to 300 Nm (221 lbf.ft)
RPM	Up to 30,000

Milling Head - Gear driven Spindle

Power	Up to 60 kW (80 hp)
Torque	Up to 2 000 Nm (1 475 lbf.ft)
RPM	Up to 3 000

FEATURES

- Powerful and Rigid Design
- 5-axis / 5-sided contour part processing
- Linear Motors or conventional drive systems
- Large choice of Milling Heads (Designed and manufactured by Liné)
- Stand alone or FMS configuration
- CNC: SIEMENS 840D sl; Fanuc 30i
- CSA, UL and CE certified
- Two years full warranty

CONTACT US: