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
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 guarantees 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/s² (200 in/s²)
- 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/s² (200 in/s²)
- 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/s² (200 in/s²)
- 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

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