

Surface and Profile Grinding



gantryLine SLM

Experience the gantryLine SLM

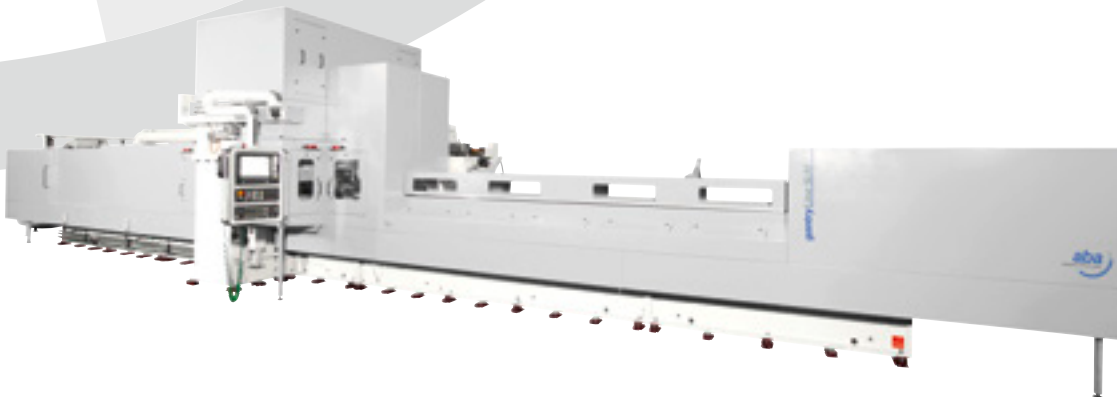
The SLM model is a Technology Machine based on the gantryLine design. It is specifically conceived for the economic processing of long work pieces. The gantryLine SLM combines all required characteristics to achieve the highest quality and repeatability for reciprocation as well as creep-feed grinding.



This machine is conceived to process work pieces up to 6,000 mm in length. Equipped with three main spindles, it is capable of solving diverse grinding problems. Initially designed for processing of linear guides, this machine finds its place in a number of other industries as well. High levels of customization is achieved utilizing a wide variety of dressing units.

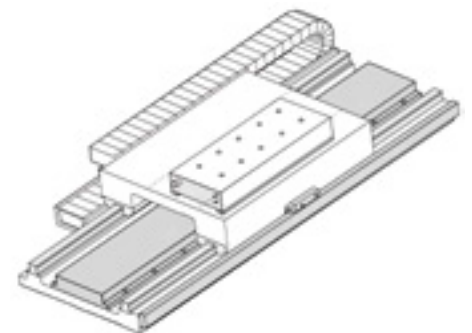
All axes are equipped with high-precision linear guides and absolute measuring systems. The main table movement via linear motor achieves velocities of up to 60 m/min even with heavy loads. Acceleration and deceleration curves are short increasing the economic benefits of this machine.

Vertical and cross-axes are driven via ball screws and servo motors.



Benefit Overview

- X-axis with linear motor (60 m/min, no wear, quiet)
- High acceleration and deceleration of main axes
- High spindle power
- Various roll dressing units possible
- Flexible process guidance



The linear motor – no contact and wear resistant up to 60 m/min table velocity.

Design Characteristics

Main Components

- High-precision machining of components
- Highest precision of the machine through structured alignment procedures

Machine Base, Columns and Gantry made from Steel, optionally filled with Polymer Concrete

- Drastically increased rigidity
- Optimal dampening characteristics
- High thermal stability of machine base

Additional Options

- Automatic loading and unloading of work piece
- Semi-automated wheel changing

Machine Concept

Gantry with

- 2 columns and cross beam
- 2 motor spindles, vertical
- Additional horizontal spindles possible

Drive and Measuring Systems

- Linear drive in X-axis
- Motor spindle with automatic balancing
- Ball screw with servo motor for Y- and Z-axes
- Absolute measuring systems in main axes

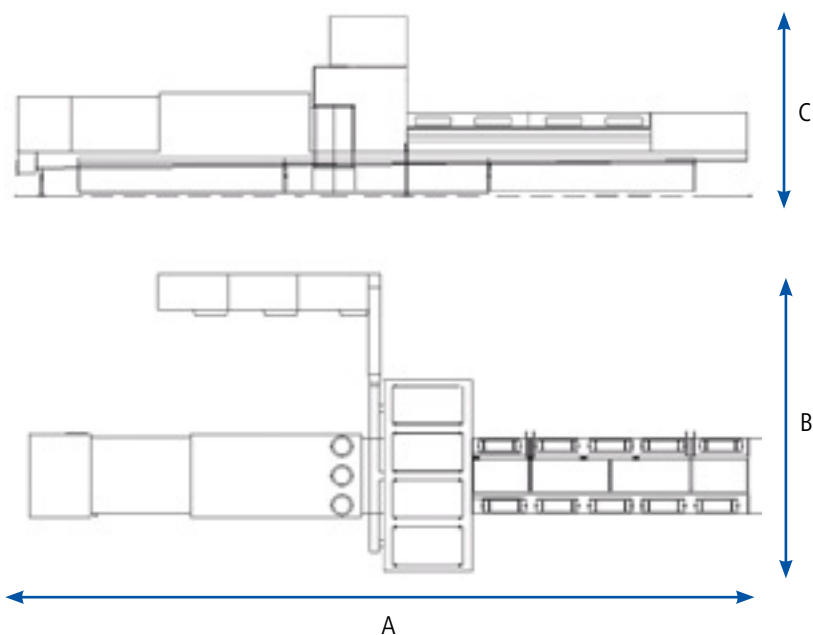
Two Controls Options

- Sinumerik 840D
- xpressCube

gantryLine SLM	1.002	2.002	4.002	6.002
Grinding Width (mm)			200	
Grinding Length (mm)	1,000	2,000	4,000	6,000
Distance Spindle Center to Table (mm)			-	
Spindle Power (kW)			32 - 48	
Spindle Cone (mm)			KK6	
Grinding Wheel (mm)			500 x 150 x 203.2	

Dimensions/Weight				
Length A (mm)	6,500	9,500	14,200	18,900
Width B (mm)	2,800	5,000	5,000	5,000
Height C (mm)	3,800	3,500	3,500	3,500
Weight (kg)	24,000	30,000	35,000	42,000

All values are approximated and may change depending on selected options.
All information is subject to change.



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