

MAZZOLA ENGINEERING

Mechanical Engineers & Consultants since 1976

MAZZOLA ENGINEERING's cooperation with Southern Switzerland's Technical University proved to be beneficial to graduating students. Practical problem solving is of great interest to students preparing their graduation paper. Over the years our company has offered many different engineering projects to be worked on by graduating students. Some of the student's solutions have later found practical application in the development of machinery built by the company. A recently presented study concerns the application of a linear motor as the main drive for the company's latest strip accumulator model. The solution allows to further reducing the machine's moving parts as the linear motor replaces the traditional drive composed of gear-bearing, pinion, reducer-gearbox and universal joint transmission.

On such a project the student's work comprises a variety of tasks including calculating forces and power required, selecting components, integration design, operational feasibility, maintenance requirements as well as cost analysis. Even if some of the studies do not translate in practical application, the company receives a great deal of theoretical inputs that help maintaining the necessary enthusiasm to pursue new developments and to keep the company's products at the edge of new technology. On the other hand, the students are confronted with solving "practical engineering problems" where they can apply –but also recognize the limits of- the theoretical education received.