

New vacuum pump from Sterling SIHI

SIHI*extruvac* ... innovative vacuum pumps for the use in calibration tables



In the plastic extrusion process, mouldable plastics, often in the form of pellets are heated and forced into moulds of the desired shape. In a subsequent process, the extruded profile passes to a calibration table where vacuum is used to remove air and to ensure the final profile matches the desired shape and dimensions. Water is used continuously during the calibration process to permit controlled cooling of the profile. The vacuum pump must therefore be capable of handling air/water mixtures.

SIHI*extruvac* ... **compact,**
robust,
low maintenance
and able to handle
water carry over

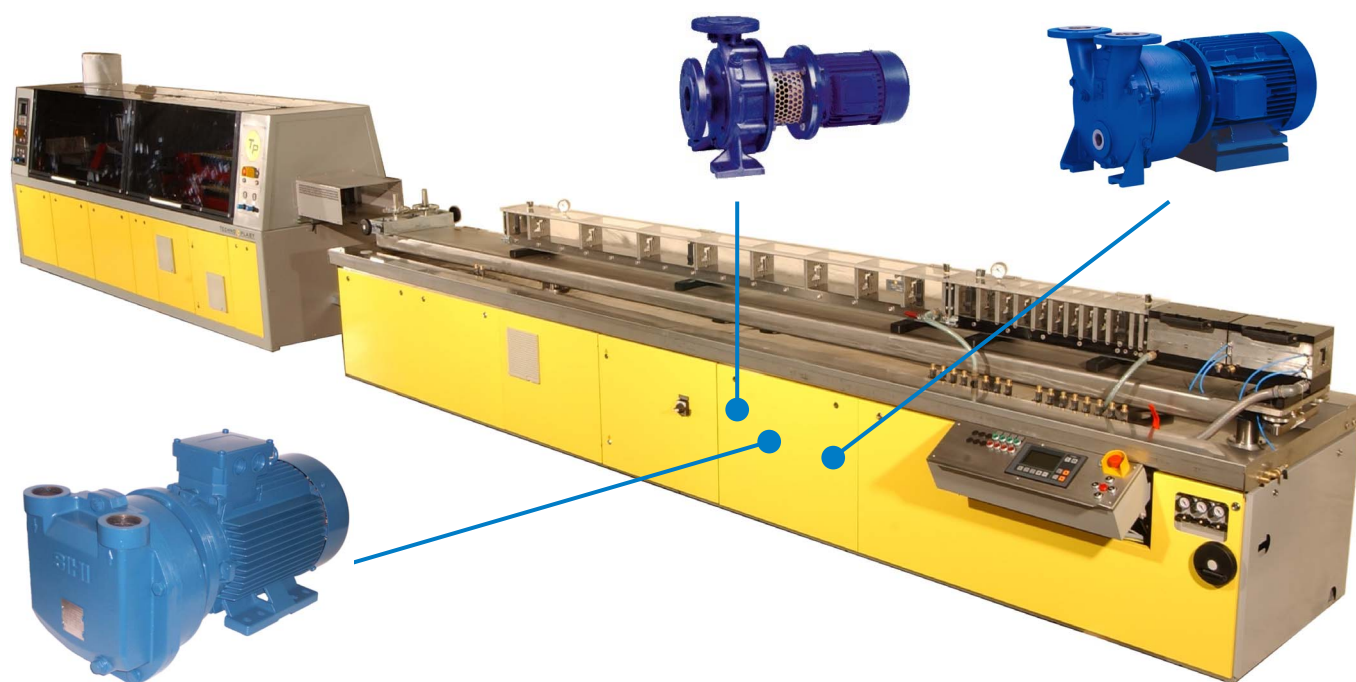


An Innovative Solutions for Calibration Tables

The technical and commercial demands on calibration tables have increased significantly in recent years. Nowadays robustness, extended meantime between maintenance, absence of vibration and ease of service are key requirements. These also apply to the pumps installed on the calibration tables. The demands on the vacuum pump vary depending on the particular stage of the extrusion process.

Water / Air Separation

In this process, water used for cooling is removed with a liquid pump. For vacuum calibration a monobloc one stage vacuum pump is used which cannot handle additional water.



Combined Water / Air Process

In this process, cooling water together with any remaining air is extracted by means of a pump. The pump must therefore be able to generate a stable operating vacuum whilst, at the same time, removing the water.

SIHI^{extruvac} fulfils both these requirements with its innovative design.

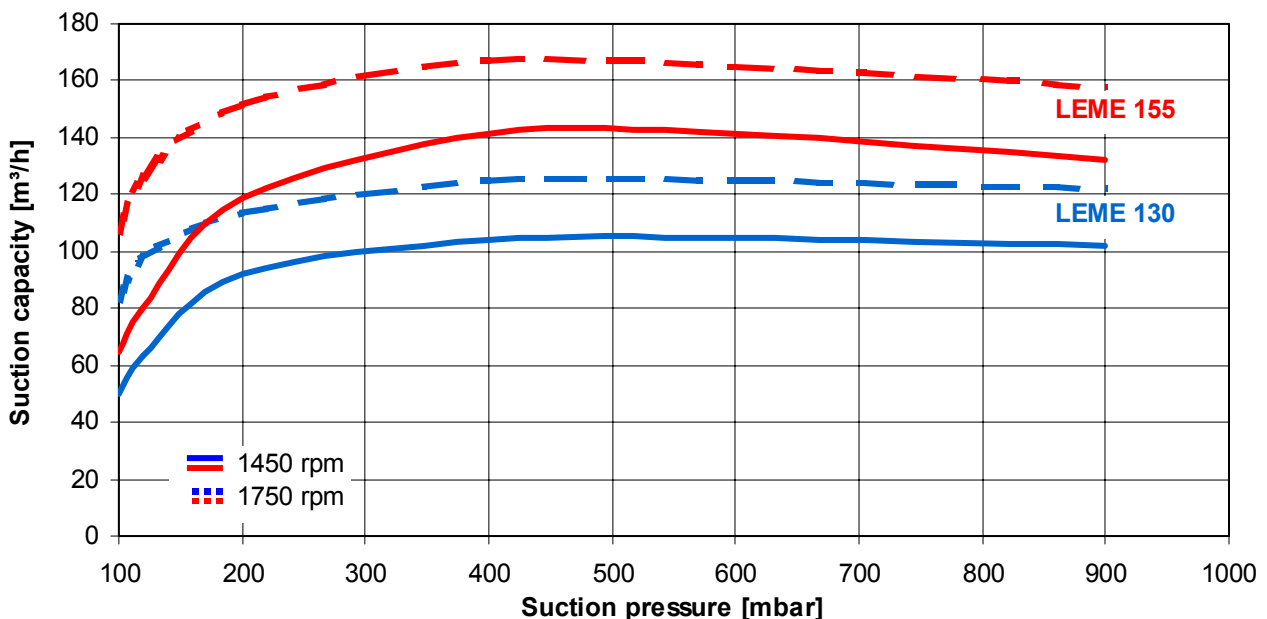
SIHI^{extruvac} Pump range

Type	Water capacity	Suction volume	Suction pressure
LEME 130	up to 7 m ³ /h	50 Hz - max. 105 m ³ /h	50 Hz - min. 100 mbar
		60 Hz - max. 125 m ³ /h	60 Hz - min. 100 mbar
LEME 155	up to 7 m ³ /h	50 Hz - max. 140 m ³ /h	50 Hz - min. 100 mbar
		60 Hz - max. 170 m ³ /h	60 Hz - min. 100 mbar

Overview of SIHI^{extruvac} Advantages

- ✓ **Water handling capability**
With its new hydraulics SIHI^{extruvac} can handle up to 7 m³/hr, whilst maintaining a stable vacuum of up to 100 mbar.
- ✓ **Compact design**
SIHI^{extruvac}, with its water handling capabilities, has identical dimensions to pumps that were formerly used that were unable to handle water
- ✓ **Low noise levels**
The noise level of SIHI^{extruvac} is below 65 dB(A).
- ✓ **Robust and reliable**
Variations in operating requirements and fluctuating water flows do not effect SIHI^{extruvac}.
- ✓ **Maintenance friendly**
The materials used in the components (stainless steel for the guide disc, bronze for the impeller) ensure that SIHI^{extruvac} is low maintenance. In addition, assembly and disassembly does not require special tools.
- ✓ **Interchangeable**
Existing installations used for water / air separation can be replaced without modification by SIHI^{extruvac} with its water / air handling capabilities
- ✓ **Simple installation**
Because of the water handling capabilities of the SIHI^{extruvac}, the pipework associated with the additional liquid pump is not required. The dual frequency motor is suitable for either 50Hz or 60 Hz operation.

Performance data



SIHI^{extru}vac ... simply better



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