

# LHMS

## Manual Molding System



Forming your ideas

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## Technical Details

### Manual Molding System LHMS 28M

Our manual molding system LHMS 28M has been developed for research work, prototyping and for the production of small and medium-sized lots.

Clamp and transfer units both have energy-saving and noise-reducing electromechanical drives. This design also allows a compact machine size with minimal space requirements.

Due to its integrated transfer process control with recipe management the system is suitable both for research work to establish product-specific parameters and for qualification of compounds. Transfer speed and pressure are programmable and can be graphically displayed for evaluation of the transfer process.

The modular mold concept is identical with the fast-change, single-strip molds used for our automatic systems LAMS 28 and LAMS 28MR, so that the molds can be changed over to our automatic molding systems without changing process parameters. The change-over time amounts to approx. five minutes.

For research and prototype work LAUFFER offers economical test molds with interchangeable cavity inserts.

Pellet feeding can be simplified by an optionally available semiautomatic pellet feeding system, which guarantees a constant, reproducible process.

As an option, the LHMS 28M molding system can be designed as a 2-strips system with modified clamp and transfer unit.

### Machine design

- » Electromechanical clamp unit, guided on four columns
- » Programmable clamp force, integrated soft close function
- » Mold mounting areas water-cooled
- » Ejector drives for top and bottom mold
- » Light curtain
- » Electromechanical transfer unit with bottom transfer
- » Programmable speed profile, position-controlled
- » Programmable torque limiter (pressure control)
- » Heated mold base
- » Modular, fast-change single-strip mold concept
- » Machine controlled by Siemens Simatic S7 with integrated heating control
- » USB interface
- » Fully graphical, interactive user interface
- » Transfer process control with recipe management

### Clamp and transfer unit

Clamp force, programmable	kN	max. 280
Daylight	mm	110
Transfer force	kN	5 – 10
Transfer speed	mm/s	0.1 – 10
Transfer piston stroke	mm	max. 40

### Supply specifications

Voltage	V	400 3/N/PE 50 Hz
Consumption	kVA	8.5
Compressed air	bar	5 – 8
Cooling water	bar	1 – 3
Cooling water consumption	l/min	4 – 5
(Inlet temperature < 15 °C)		

### Single-strip mold

Pellet diameter	mm	max. 18
Strip length	mm	max. 285
Strip width	mm	max. 65

### Machine dimensions

Length	mm	ca. 1300
Width	mm	ca. 1000
Height	mm	ca. 1700
Weight	kg	ca. 1700

Technical details might be subject to change