



MAXIMUM ADDED VALUE

The compact **MAS 24 EXTRUDER** combines the familiar, superior, plastification and homogenization of a co-rotating parallel twin screw extruder with the specific advantages of the conical screw design; making this the key element of this compounding system.

- Recycling
- Compounding
- Re-compounding
- Additive / Filler / Masterbatch

LABORATORY EXTRUDER: RECYCLING AND COMPOUNDING

The **MAS 24 LABORATORY EXTRUDER** is the only conical & co-rotating twin screw extruder available for small volume applications. This technology enables the customer to process a wider range of materials including recycled materials on a laboratory scale. It is also ideal for small-scale high end polymer compounding applications.

TECHNICAL HIGHLIGHTS

- Compact design; Small footprint
- Conical, co-rotational twin screw system
- Superior homogenization
- Large infeed opening
- Process low density materials (Film, Fibers, etc.)
- Low melt temperatures
- Reduced energy consumption
- No side feeders needed

DESIGN FEATURES

- 2 conical screws, \varnothing 24 mm at melt output section and \varnothing 50 mm at intake section
- Screw length: 400 mm
- Modular screw design = individual configuration
- Screws removable from backend
- Barrel equipped with swivelling system
- Extruder equipped with feeding hopper

BIG INTAKE VOLUME

- High screw filling rate > very good infeed
- High output per screw rotation kg/screw rpm
- Low screw speed, low melt temperature



Big Intake Volume



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SCREW SPEED

Up to 285 rpm

DRIVE

7,5 kW AC Motor frequency controlled

BARREL HEATING

- 2 heating zones approx. 1,45 kW
- 2 heating zones approx. 1,45 kW for auxiliary equipment

EXTRUDER VENTING

Water ring pump with 33 mbar absolute pressure

MAS CONTROLLER (without PLC)

Display of:

- heating zone temperature with preset values
- extruder screw speed
- melt temperature
- melt pressure



OPTIONS

FULL SCALE TOUCH SCREEN

Operator interface controlling system: Touch screen 15", 1024 x 768 Pixel/Industrial PC 1,6 GHz, 4 x USB, Ethernet /CAN-Bus/PID-temperature controller Software includes: overview, different setting pages trend analyzing, different operator levels, recipes,etc.

MANUAL TYPE MELTFILTER

The melt filter is equipped with 1 x Ø40 mm screen. Filtration fineness based on application. For screen changes it is necessary to stop the extruder for a short while.

PELLETIZING AND DOWNSTREAM EQUIPMENT

The MAS Laboratory Extruder can be equipped upon request with an underwater, air, or strand pelletizing system as well as any other downstream equipment, for example lg pipe extrusion tool.

NOTE: Technical data subject to change.