

# LABORATORY EXTRUDER



eFACTORTHREE



Don't just recycle -  
**Create value!**



## 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.

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

## MAS 24: 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, Ø 24 mm at melt output section and Ø 50 mm at intake section
- Screw length: 400 mm
- Modular screw design = individual configuration
- Screws removable from backend
- Barrel equipped with swiveling 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**



# LABORATORY EXTRUDER

## 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

### TOUCH SCREEN

Operator interface controlling system: 18" Touch screen, USB, Ethernet/CAN-Bus/PID-temperature controller. Software includes: overview, setting pages, trend analyzing, various operator levels, recipes, etc.

### MANUAL MELT FILTER

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.

### PELLETIZING AND DOWNSTREAM EQUIPMENT

The MAS Laboratory Extruder can be equipped with an underwater, air, or strand pelletizing system as well as any other downstream equipment.

NOTE: Technical data subject to change.