

## Extruder

- » Robust vertical press with a closed frame construction
- » Optimal solution for the discharge of non-pumpable and abrasive products
- » Dead space-free and bubble-free discharge of the mixing vessels
- » Safe and controlled locking system for use of highly automated filling systems

For discharging of highly viscous media, the product is precisely positioned in the squeezing device directly from the mixing container. The press plate contour, which is precisely adapted to the container, enables the containers to be emptied without dead space and with a minimum residual quantity. The design as a vacuum press also guarantees a reliable and bubble-free filling without air pockets in the product.



## Characteristics

- » Designed for the use of exchangeable mixing vessels
- » Residue-free emptying from laboratory scale to production plant
- » Easy cleaning due to smooth surfaces, gap-free design and easy accessibility
- » High operational reliability due to defined sequence control and Interlocks
- » Wide range of products for system integration and automation
- » Field of application:
  - a) Laboratory type or pilot plant for the insertion of the exchangeable mixing vessel with an integrated hydraulic system
  - b) Version for standard barrels up to 200 l with an integrated hydraulic system
  - c) With a rigid frame for insertion of the exchangeable mixing vessel by means of an external lifting device (e.g. lift truck, forklift)
  - d) With a lifting frame embedded in the floor for placing the exchangeable mixing vessel at ground level
  - e) With a lateral lifting and swivelling device to avoid recesses in the floor
  - f) With a frontal lifting device for a fully automatic insertion and lowering of the exchangeable mixing vessel to avoid recesses in the floor
  - g) With a transfer device into a separate high-pressure container for realising pressure up to 300 bar for plastic products. Also ideal for the use of moulding nozzles (e.g. raw material for feeding extruders)
  - h) For retracting and extending of the exchangeable mixing vessel on a lowerable roller conveyor
  - i) Mobile Version for operation at different locations



# Extruder

## Design options

- » **Vessel pressures up to 300 bar**
- » **Vessel sizes from 5.0 l to 2.000 l**
- » Compressive force up to 10.000 kN
- » **Operating pressures** from 0.05 to 1,2 bar abs.
- » **Exchangeable mixing vessels with lateral and central bottom outlet** or rather product discharge through the press plate
- » **Hydraulic drive power according to product characteristics** and scheduled quantity
- » **Removable press plate**
- » **Vacuum hood** for an absolutely air-free filling with vacuum system and vacuum control
- » **Hygienic design**, FDA-, GMP-compliant
- » **Explosion protection according to ATEX/Directive 2014/34/EU**
- » Digital pressure gauge, temperature display, level and / or performance Indication
- » **Automatic pressure control** for rapid and pressing operation
- » Start / Stop operation via foot switch
- » External control by a **separate dosing system**
- » **Hard-wired relay control, compact controller or memory programmable controller (PLC)**
- » **Touch screen operating panel** with process visualization
- » **Remote maintenance and remote diagnosis**

## Possible applications

Wide range of applications in the chemical, pharmaceutical, plastics processing as well as the paint, coatings and building materials industries.

### A typical application is the production of:

- » Plasters
- » Filling and sealing compound
- » Adhesives and sealants
- » Silicone and rubber compounds
- » Moulding compounds, filling material
- » Colour concentrates
- » Ointments, creams, gels

Call us: Sales Hotline +49 (0) 62 06 / 94 46 0