

### Blown film take-off unit Downstream equipment for lab-scale film extrusion

Brabender: Blown film take-off unit







# Blown film take-off unit

The blown film take-off unit is used in combination with an extruder and a film blowing die head for simultaneous inflation, cooling, flattening, take-off and winding of an extruded film tube.

This device supports the testing of input materials or processing behaviour of new recipes. Application options exist in final material testing and in quality control during production. It is suitable for thermoplastic elastomers and biopolymers, polyolefins and engineering plastics such as polyamide.



## **Technical data**

- Maximum height:
- Number of Nip rolls:
- $\bullet$  Dimension of the Nip rolls:
- Material of the Nip rolls
- · Winder:
- Dimensions (H x B x T):
- · Mains connection:

3200 mm

2

 $84 \text{ mm } \emptyset$ , 321 mm long

Hard paper winding sleeve

50 mm Ø \* 300 mm long

880 x 3200 x 978 mm

3 x 400 V, 50/60 Hz + N +PE,

16 A



## **Highlights**

# Comprehensive setting parameters:

- Exact adjustment of the tube diameter via reproduceable setting of inflated air
- Optional control of the flattened film width by ultrasonic measuring system
- Adjustment of the film thickness by control of take-off speed, blow-up ratio, bubble height
- Adjustment of the height of the roller assembly to the material and film thickness by means of an electric lifting column, thus enabling a wider range of film thicknesses to be produced
- Adjustable angle of inclination of the fl attening device to different foil diameters
- Adjustable annular gap of the fi Im blowing head (thereby influencing the "frost line" – transition from plastic to solid state)
- · Adjustable take-off speed and supporting air

#### User-friendly:

 Touchscreen with MetaBridge software for more user-friendly control, including more precise setting of parameters (working height, winding torque, cooling air)

#### Scalable concept:

- Optional installation of a camera system for fi Im quality analysis
- Optional ultrasonic sensor for fi lm width measurement and control

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