



Blown Film Unit 300

An available option for GOETTFERT's
range of laboratory extruders



GOETTFERT®

certified acc. to DIN EN ISO 9001:2000

GFT 115.12.0-0-02

Blown Film Unit 300

A compact unit for blowing, cooling, take off and wind up of extruded hoses. It is suitable for production of small films used by the food industry and in the packaging field where the application of big production machines is often not profitable.

Field of application

Production control

- For monitoring the dispersion performance of compounders or extruders used in batch production
- For inspection of incoming goods for gels and color distribution

Production

- Production of small films used by food industry and in the packaging field.

Development

- For control of the maximum polymer extensibility
- To monitor the suitability of polymers or polymer blends in the laboratory

Blown Film Head / Blown Film Die

The blown film head / blown film die is attached to the laboratory extruder by means of a deflection head. The long orifice land ensures good homogenization and conveyance to the die outlet. The blow cooling ring that can be operated with two blow levels to guarantee even and sufficient distribution of cooling air, a requirement for very narrow tolerances in film thickness.

Machine Frame

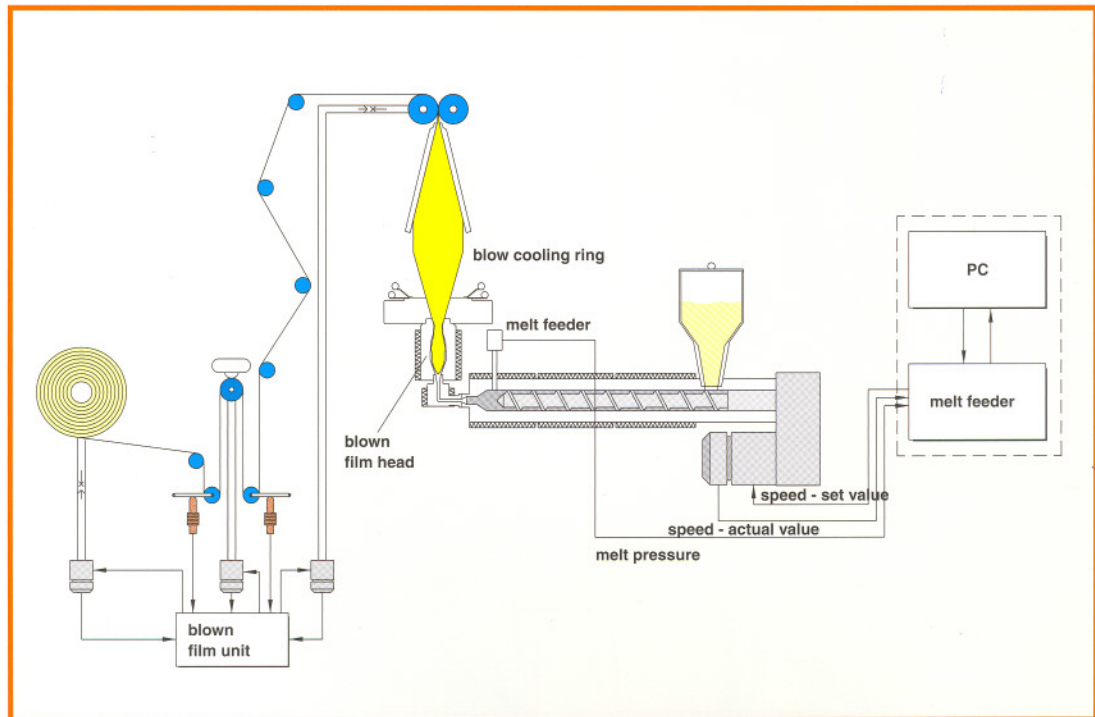
The machine frame is executed as a stable, movable and fixable support with a central telescope-type profile system. This construction offers easy installation of all components. The automatic lifting function enables the Blown Film Unit to be

easily adjusted to any take-off height and, if necessary, also to applicable room height.



Blown Film Unit 300 with Laboratory Extruder

Diagram – Blown Film Unit 300



Modular Design

- Easily expandable and adaptable for custom installations
- Range of adjustment of the lifting column: 500 mm

Operation

- Clear arrangement of all control modules and displays

Blow Cooling Ring

- Two blow levels, finely adjustable
- Dual-lip cooling ring

Take-off Unit / Winding Unit

- Multiple adjustable blow support and film flattening
- High take-off speed 0 - 50 m/min

- Decoupling system with adjustable traction force of 0-50 N
- Force controlled winding unit (0-50 N) decoupled from the traction of the take-off unit
- Maximum winding diameter 600 mm
- Maximum film width 300 mm
- Film quality testing
- Core-free wind-up of film

Options:

The modular design allows the integration of further test methods like:

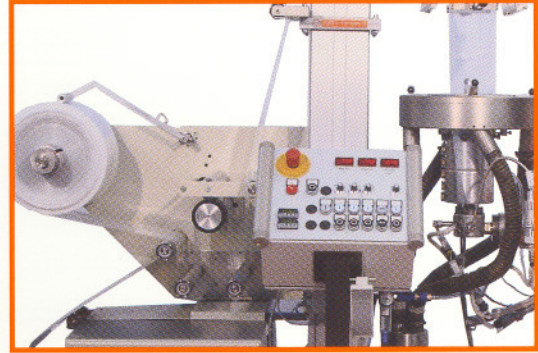
- Film analysis, e.g. gel counter
- Thickness measurement
- Gloss measurement

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Special options:

- Dual-lip cooling ring
- Blow support with central adjustment
- Decoupling system
- Winding-up reels for core-free winding up
- Film quality testing system
- Film tear monitoring



Technical Data:

Roll width	320 mm
Flattening width	max. 300 mm
Die dimension	30/50/60 mm
Total height	2210 - 2710 mm
Take-off speed	0.1 - 50 m/min
Controlled take-off force	max. 50 N
Decoupling unit	Electronic presetting of the maximum traction force of 50 N Controlled film take-off
Winding motor	Maximum winding diameter 600 mm Film tear monitoring Core-free winding up
Central lifting unit	Maximum adjustment in height: 500 mm
Weight	~ 450 kg / 1000 lbs



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