



Rheology Solutions

Rheology Solutions is the sole Australian distributor of this product range and we welcome the opportunity of discussing your application requirements.

*We hope the information you are seeking is contained within this file.
If you have any questions, or require further information please contact us.
We look forward to being of further service.*

Regards from the Team at Rheology Solutions.

RHEOLOGY SOLUTIONS PTY LTD. ACN 082 479 632

HEAD OFFICE: 15-19 Hillside Street, Bacchus Marsh, Victoria 3340 Australia. PO Box 754, Bacchus Marsh, Victoria 3340 Australia.
Telephone: +61 3 5367 7477 **Facsimile:** +61 3 5367 6477 **Email:** info@rheologysolutions.com **Website:** www.rheologysolutions.com

Blow Film Lines

The blow film lines are used to produce high-quality blown films to carry out optical and physical measurements, all parameters of the system, e.g. extruder speed, temperature, haul-off speed, film width, film bubble ratio, etc. are stored at the touch panel control system, which guarantees the reproducibility of the film quality at any time- as the frost line can be kept in the same position, this is an important parameter for optical & physical on-/off-line measurements, for example detecting gels, contaminations, fibres and other impurities as well as haze, gloss, density and additive measurement. An optical device measures the width of the flattened film and controls the diameter of the film bubble. In this way, the desired film width is recorded. The tower height is electrically driven, freely adjustable and can therefore be set optimally for any extruded materials.

The take-off nip rolls are driven pneumatically and their temperature is optionally controlled.

The film bubble can be stabilised with additional guiding rolls, adjustable wooden grids and Teflon-coated rolls lead the film bubble into a flat layer film, some guiding rolls are specially designed to prevent wrinkles.

The complete operation is visualised on the touch screen.

The blow film line consists of:

- Extruder with a diameter of 20, 25 or 30 mm
- Blow film die with a diameter 30/50/75 mm
- Haul-off tower and winding system
- Other sizes for extruders and dies are available on request



Performance Characteristics

- Cooling ring with large sized air distribution chamber
- Labyrinth styled for air flow and uniform pressure
- Adjustable cooling ring gap
- The tower is electrically driven
- Automatic bubble diameter control according to the set ratio
- Electronic width measurement of the flattened film
- Pneumatic drive for rubber and chrome nip rolls
- Automatic nip rolls open/close
- Spiral (mandrel) melt distributor including three heating zones

Technical Data

- Die diameter 30/50/75 mm
- Die gap 0,5/0,8/1,2 mm
- 8 channel melt distribution
- Blown-up film diameter max. 180/240 mm
- Flattened film width max. 280/380 mm
- Haul-off speed 0 - 15 m/min (optional 30 m/min)
- Haul-off force 0 - 20 N
- Total height 220 - 320 cm
- Power supply 400 V, 3 phase + N + PE (5 wires)
- Weight Approx. 500 kg

Technical alterations are subject to change without prior notice

