

KALIBRO

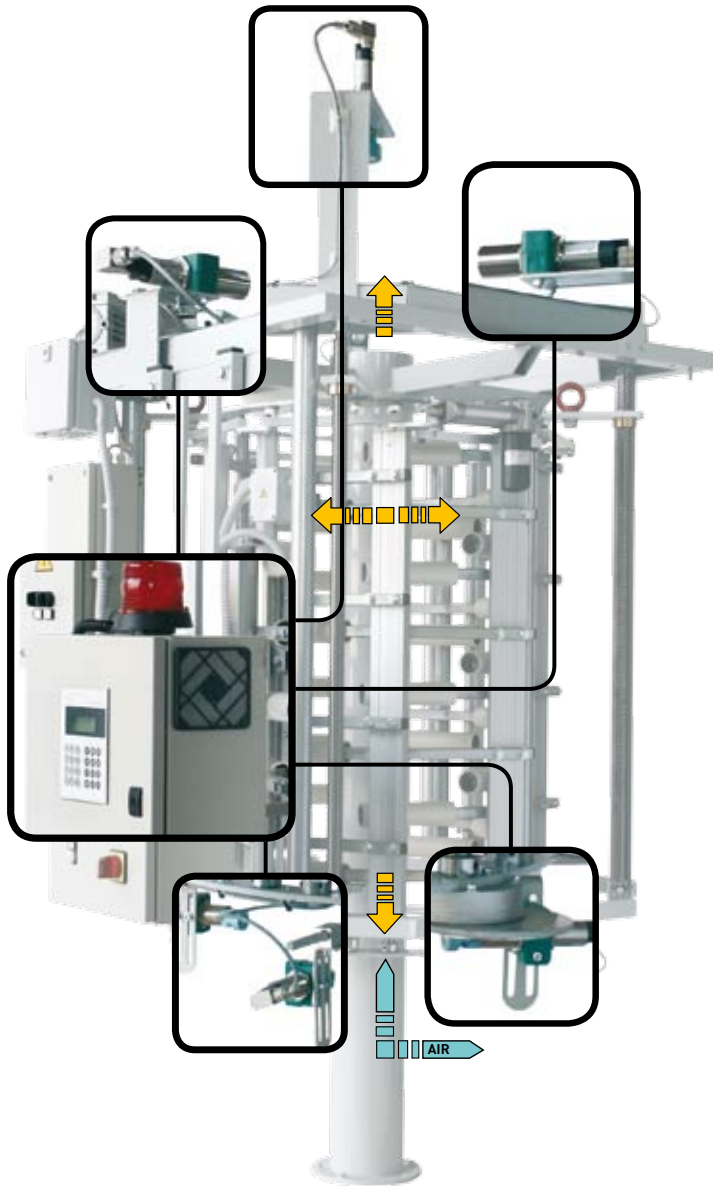
AUTOMATIC CAGE CONTROL SYSTEM

KALIBRO

AUTOMATIC CAGE CONTROL SYSTEM

Suitable for blown film lines:

- already provided with IBC;
- with stationary, oscillating or rotating die;
- also for gusseted film.



MEASURING SYSTEM AND ACCURACY

- Ultrasonic sensors for stable and repeatable measurement
- Measurement resolution 0,1 mm
- Display resolution 1 mm
- Control accuracy +/-2 mm (for lay-flat up to 1800 mm).

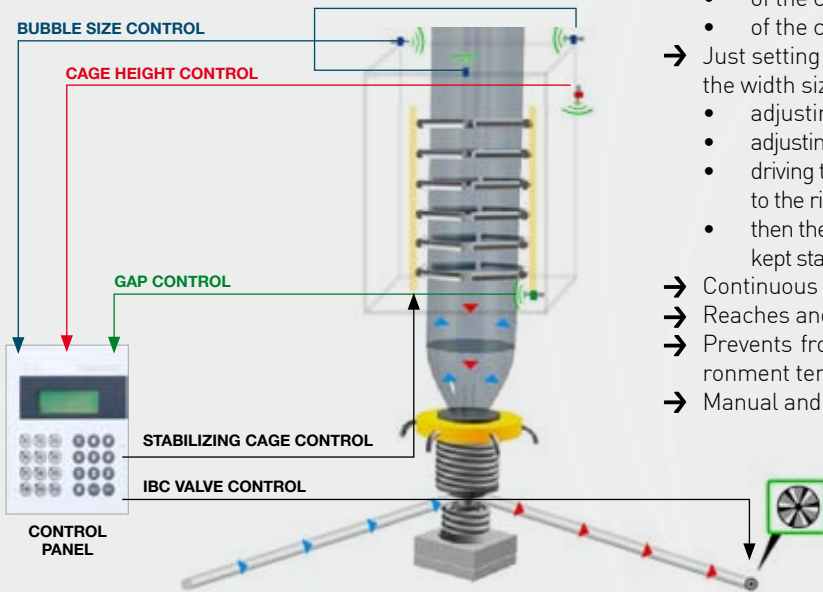


ADVANTAGES

- Ideal in case of:
 - frequent lay-flat size changes (on-the-fly);
 - low line speed;
 - personnel with limited experience.
- Simple to use: just set the lay-flat set point and tolerance targets.
- Save time and reduce waste during start-up and size changes.
- Lower tolerances and much better control than with manual adjustments.
- Constant lay-flat stability, during all time.
- Supplies process information needed to validate the manufacturing process as required by quality assurance



SYSTEM OPERATING MODE AND FUNCTIONS



- Measure and control, by ultrasonic sensors:
 - of the bubble diameter;
 - of the distance between the bubble and the cage (gap);
 - of the calibration cage height;
 - of the cage opening.
- Just setting a new lay-flat, the system performs automatically the width size change:
 - adjusting the cage height to suit the BUR set value;
 - adjusting the cage opening to suit the width set-point;
 - driving the IBC valve to inflate or deflate the bubble up to the right size
 - then the bubble size, hence also the lay-flat width, are kept stable by controlling the gap and driving the IBC valve.
- Continuous display of the lay-flat measurement
- Reaches and maintains the lay-flat set value.
- Prevents from lay-flat variations due to changes of the environment temperature (day / night).
- Manual and automatic operating mode.

MAIN FEATURES

- High speed irides valve for controlling the cooling air flow.
- Main control panel with operator HMI (touch screen B/W 5.7" LC).
- Process alarms and diagnostics in plain text. Bubble break outputs available.
- Statistical reporting.



INDUSTRY STANDARD COMMUNICATION INTERFACES FOR REMOTE CONTROL AND DATA ACQUISITION

- OPC via Ethernet (one entry-point)
- OPC via CanBus (one entry-point or multi entry-points)
- ModBus TCP/IP (one entry-point)
- RS485/422 ModBus (one entry-points or multi entry-points)
- Profibus (one entry-point or multi entry-points)
- CanBus (one entry-point or multi entry-points)



- KALIBRO is also available in the following versions:
- IBC Control, just for bubble size control (keep the gap between the bubble and the calibration cage);
 - W-Scan, just for lay-flat monitoring.



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