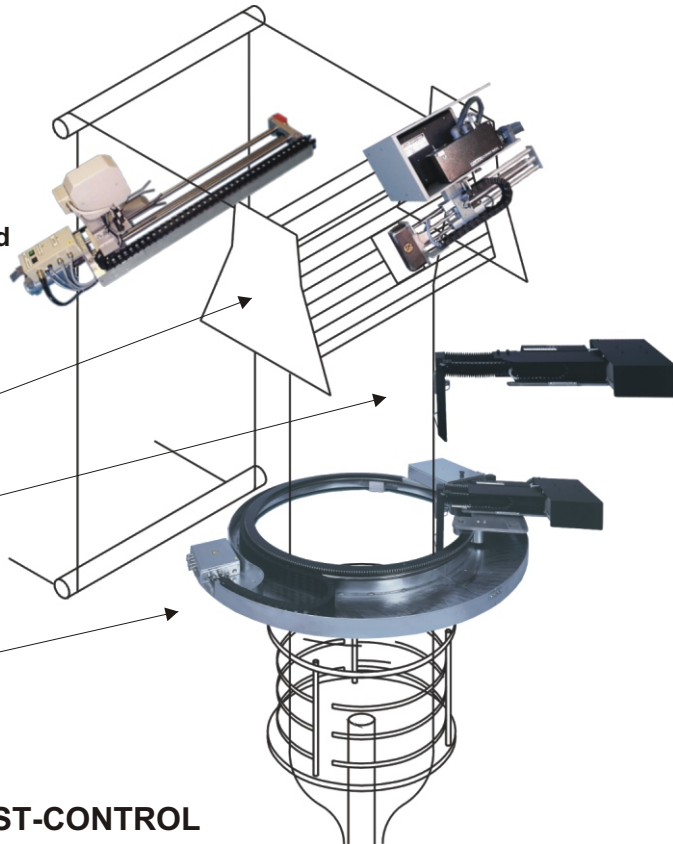


ON-LINE PROFILE - MEASURING SYSTEMS

ACS PRO-FIL

For Mono- and Coextrusion Blown film lines**Alternative principles of profile measurement:****Non-contacting profile measurement head after the collapsing frame****Capacitive profile measurement in the collapsing frame****Capacitive profile measurement with radial adjustment****Capacitive profile measurement with radial adjustment and rotating scanner****QUALITY ASSURANCE WITH PLAST-CONTROL PROFILE MEASUREMENT**

The ASC PRO-FIL is a blown film gauge profile measurement system designed to measure film while in production. The system is capable of measuring and displaying the gauge profile of up to four lines on a single computer and monitor. The standard system includes computer, software, monitor and one gauge, gauges for additional lines are optional.

Gauge profile may be measured by a capacitive sensor located in the collapsing frames, on the bubble with an optional rotating scanner with radial adjustment or by an Air Gap Sensor positioned down stream of the nip rolls on the lay flat film. For very sticky films that will not slide over a conventional capacitance head an optional, patented Rolling Capacitive sensor may be supplied.

Profile information with die bolt mapping is

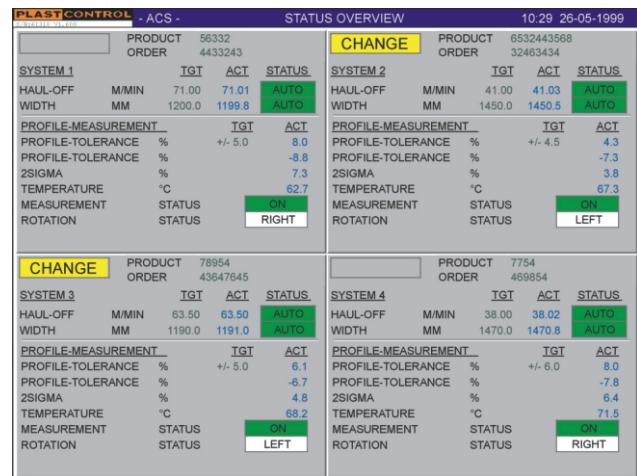
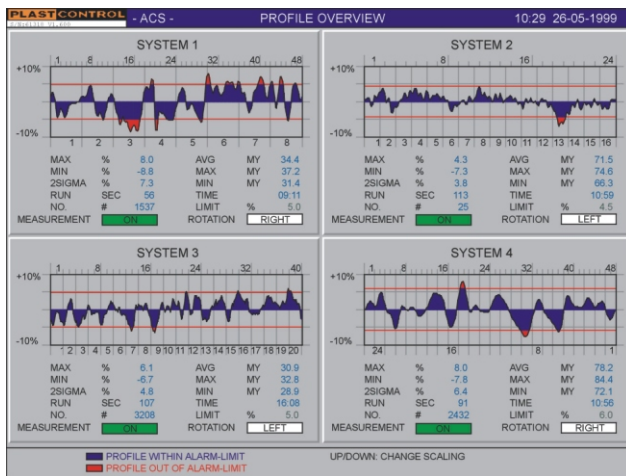
displayed on a 17" color monitor in a conventional linear or a polar graphic format. Data is also displayed in tabular format and includes target and actual maximum and minimum gauge deviation, 2-sigma variation and if optionally equipped lay flat width and linespeed.

One computer system ACS PRO-FIL can monitor and display to a maximum of four lines concurrently. The data or plots for each line may be displayed on a single page or up to four profile displays may be show on a single screen.

ACS PRO-FIL is a modular system and may be expanded to include PRO-CON automatic profile control air ring, width measurement/control, weight per length control and material dosing. All PLAST-CONTROL systems are network compatible.

- Simple operation
- Self calibrating, no samples required
- Up to four lines can be constantly monitored per ACS PRO-FIL system
- Twin head pneumatic sensor for increased update time.
- Mapping to die bolts for all applications including rotating/oscillating dies
- Automatic adjustment for changes in bubble diameter (radial adjustment)
- Upgradable to full automatic profile control PRO-CON if only one line is being monitored
- Non contacting measurement for critical film productions
- Short job changes
- Retrofits on existing lines
- Fast return on investment

SCREEN PLOTS



SCANNER OPTIONS

scanner type	measurable film max		linear adjustment type 400			linear adjustment type 600		
	double lay flat	∅	min double lay flat	min ∅	max scanner outer diameter	min double lay flat	min ∅	max scanner outer diameter
type 2	67"	45"	30"	19"	114"	-/-	-/-	-/-
type 3	87"	53"	51"	32"	125"	27"	17"	141"
type 4	106"	69"	68"	44"	137"	44"	28"	153"
type 5	129"	85"	93"	59"	153"	69"	44"	169"

dimensions in mm
subject to be changed w/o notice

UPGRADE FEATURES

- Width measurement and control of the layflat (IBC and non IBC systems)
- Gravimetric Extrusion Control, Mono and Co-extrusion lines, Gravimetric Dosing Units*
- Automatic profile control **PRO-CON**, three sizes of segmented air ring available with single/dual lip and HI-FLOW high output design*

*Please Note:
Upgrades cannot be made to multi head profile measurement systems.