

# SAMPLE-PREWATCHER®

## DETAILED INSPECTION OF PREFORMS

The Sample-PreWatcher® continuously analyses the quality of preforms by sampling individual preform batches or shots. The system can be installed behind an injection molding machine or can be used in the laboratory.



***The Sample-PreWatcher: Precise and numerous measurements inline or offline***

The Sample-PreWatcher® performs a **comprehensive measurement and inspection of preforms** providing detailed objective quality data on the screen, in reports or as database entries. The system **helps to detect recurring production deviations** and delivers valuable data which allows for in-depth long and short term quality analysis. Complete test results of a 96 cavity mold are already provided within approximately eight minutes. This allows for startup of a newly installed mold in a much shorter amount of time. As the preforms do not come in contact with a person they do not have to be disposed of afterwards.

### INSPECTION CRITERIA GEOMETRY/BODY

- \\ Length, diameter, shape, wall thickness, short shots
- \\ Gate length
- \\ Unmelted material
- \\ Bubbles, oil marks, burn spots, contamination
- \\ Inner wall damage
- \\ Core shift

### INSPECTION CRITERIA THREAD AREA

- \\ Contamination
- \\ Thread dimensions
- \\ Flash

### INSPECTION CRITERIA COLOR

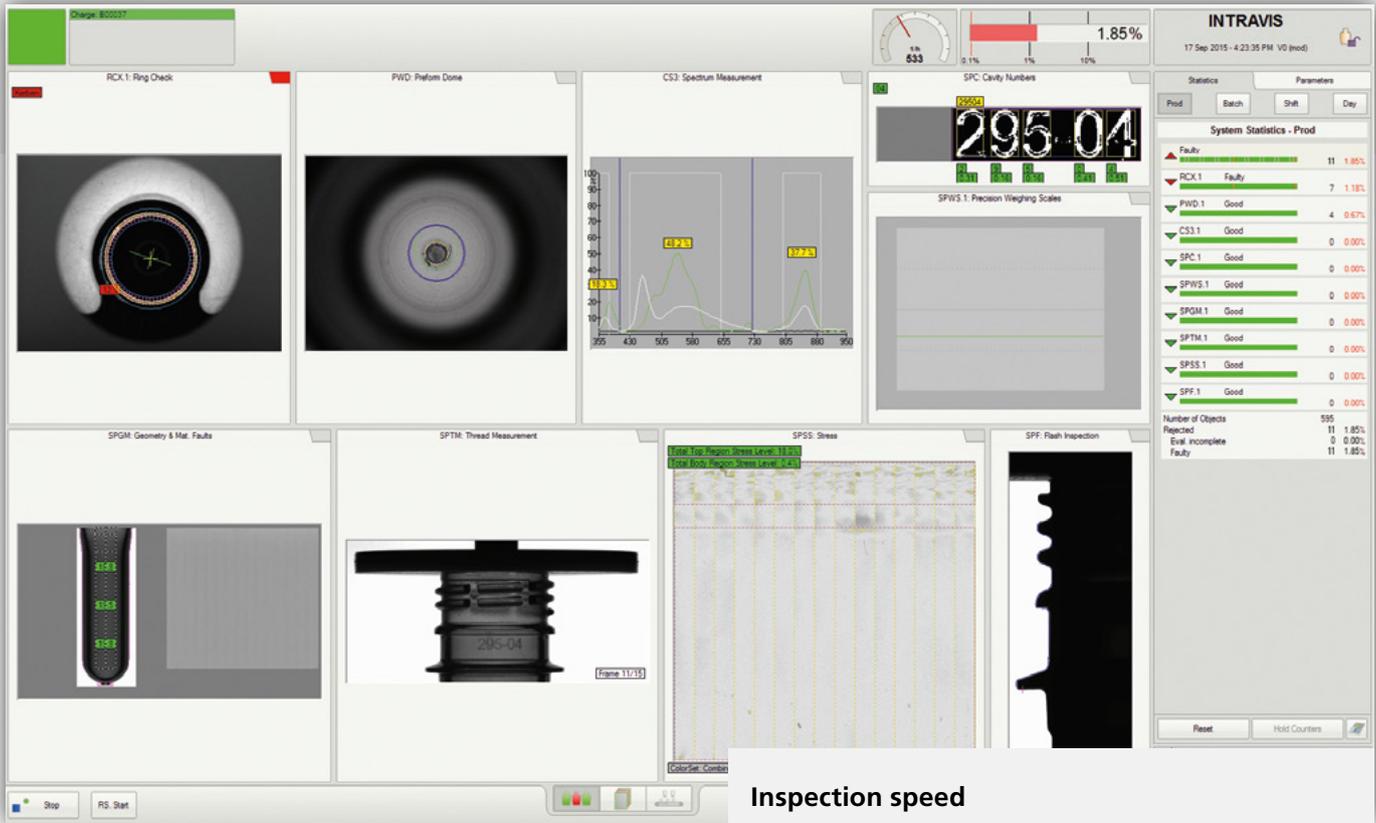
- \\ Color and intensity deviations ( $\Delta L^*$ ,  $\Delta a^*$ ,  $\Delta b^*$ )
- \\ UV measurement (presence of UV blocker)
- \\ IR measurement (presence of barrier material)

### INSPECTION CRITERIA MOUTH

- \\ Scratches and notches
- \\ Diameter, ovality
- \\ Flash

# SAMPLE-PREWATCHER®

## DETAILED INSPECTION OF PREFORMS



### INSPECTION CAVITY NUMBER READING

- Sorts preforms according to previously specified cavity numbers
- Cavity related statistics
- Enables collection of reference samples

### INSPECTION WEIGHT

- High precision weight measurement

### INSPECTION CRITERIA GATE

- Grooves, holes
- Contamination

### FURTHER OPTIONS

- Stress test (polarization)
- Inner mouth wall inspection

### Inspection speed

- < 20 objects / minute (maximum object rate)

### Electrical connection (electrical cabinet)

- Rated voltage 3/N/PE AC 400/230 V, 50/60 Hz, loadable neutral conductor\*
- Current 3 A
- Rated power 2 kW

### Dimensions and weight

- Length 1200 mm
- Width 1200 mm
- Height 2405 mm (open safety doors, including signal tower)
- Weight 380 kg

\* All systems are available in UL/CE configuration  
Other voltages upon request