

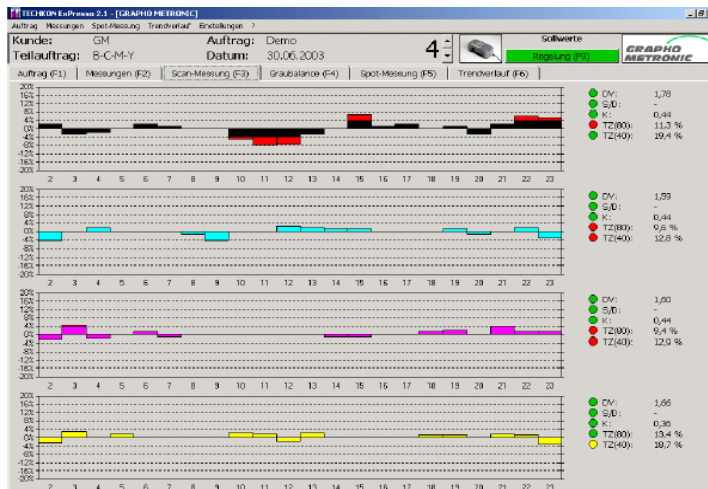


Offline/Online/Inline Process Monitoring Offset Printing

Type of measurement: Offline / online / inline

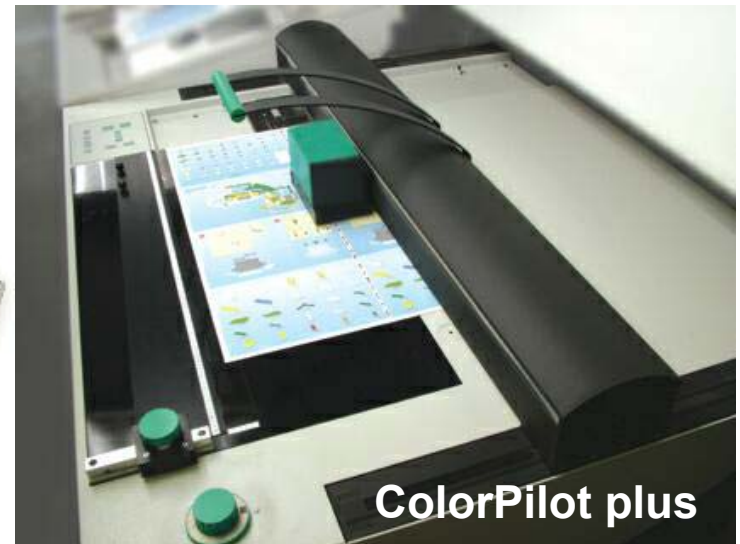
Differentiation according to the place and integration of the measurement systems

- **Offline:** The measurement device is outside the machine and not connected to it.
The operator converts measured values, which have already been converted into control recommendations by the device or the software, into control commands.
- **Max. speed: 150 mm/s**



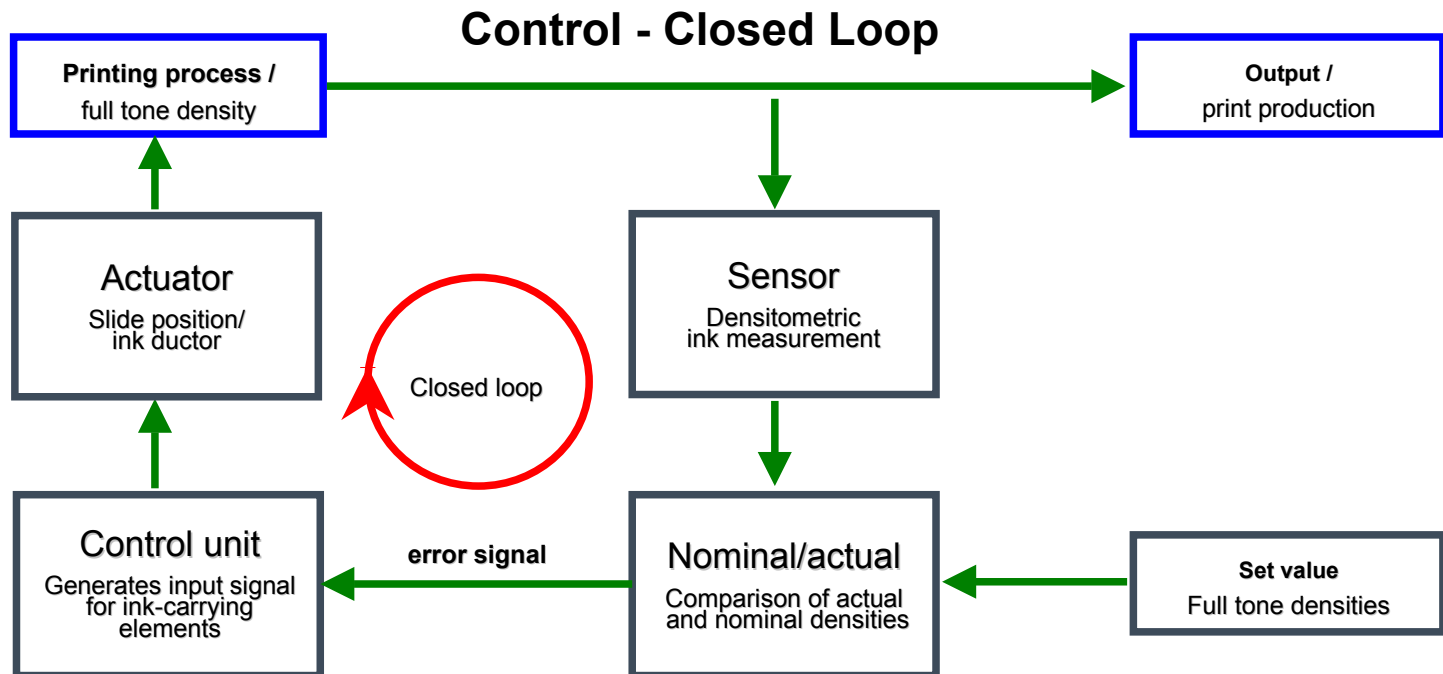
Type of measurement: Offline / online / inline

- **Online:** The measurement device is outside the machine, but is connected directly to it and its control system. The operator places the measured object and starts the measurement. The results are interpreted and transferred online to the machine.
- **Max. speed: 250 mm/s**
Calibration and measurement: 14 seconds in 3B format



Type of measurement: Offline / online / inline

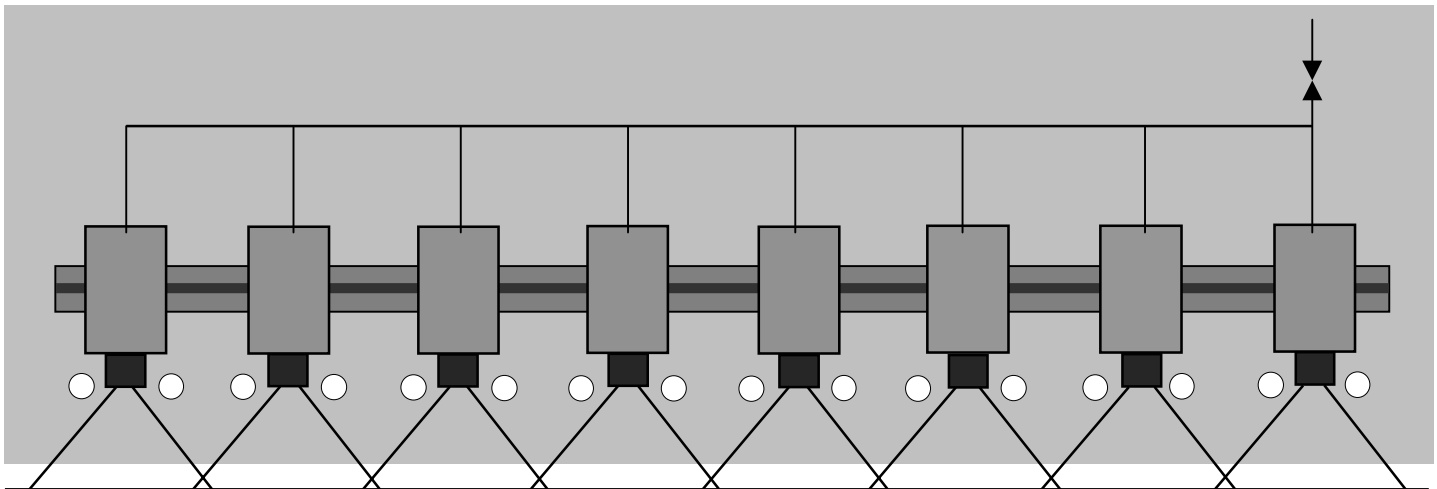
- **Inline:** The measurement device is in the machine where the measurements are taken (non-contact parameter acquisition on the moving object). The process parameters are maintained fully automatically by integrating them in the control systems of the machine.





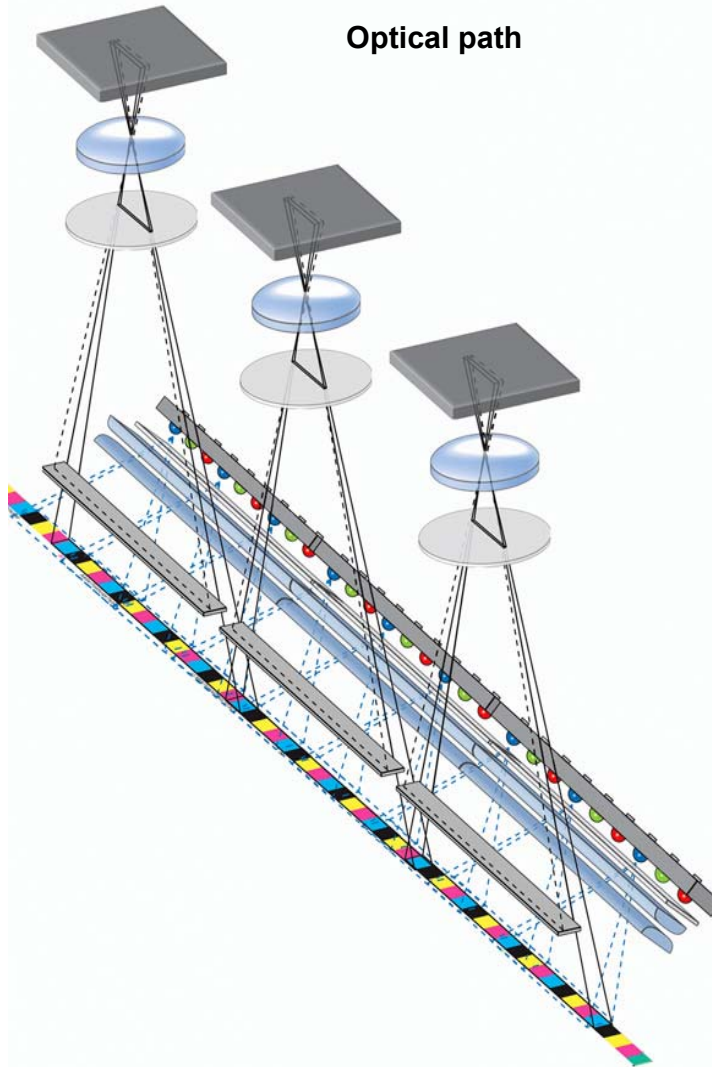
IDS - inline density system

- High dynamics
- Short measurement cycles
- Stable design
- Modular
- Max. speed: 15 m/s
(20 m/s in the future)
Entire BCMY measured value
record in less than 1 sec.





IDS - inline density system



- High resolution
- LED lighting
- Real densitometer
- Polarization filter



IDS in the Roland 900 XXL too

- Process automation in printing due to process-conformant and high-frequency densitometry

