

Data sheet for hydraulic expansion technology in printing cylinders

- **relevant printing technologies for SCHUNK:**
 - cylinder against cylinder (directly) →
offset web printing machines or continuous printing machines → flexographic printing
 - cylinder against cylinder (indirectly) / classical offset printing machine
- **relevant printing methods for SCHUNK:**
 - gravure printing 12% → for example embossing rolls, engraved or anilox rolls
 - letter-press printing 4% → flexoprinting
- **continuous feed printing/flexoprinting → interesting for SCHUNK:**

flexoprinting: 10.000 – 100.000 pcs. (**continuously increasing business!**)
(offset printing: 100 – 10.000 Stück → not relevant for SCHUNK!)
- **which customer will be most sensible to address ?**
 - plastic- and aluminium sheets, paper rolls, cardboard, party plates
 - high number of pieces (>10.000 Stück) → flexoprinting
 - required quality clutches which product will be used (air pressure or hydraulic expansion printing cylinder)
 - quick set-up of jobs/orders with high repeatability
 - package printing
 - auto-actuation or job changes possible on request
- **Advantages of hydraulic expansion printing webs:**
 - HIGH absorption of vibrations, especially on large working widths and endless lengths with repeating patterns
 - MORE available working space with a hydraulic system (ease of operation due to higher insertion gap)
 - HIGHER clamping force
 - Self-sufficient system (self-contained!)
- **Customer value with hydraulic expansion printing webs:**
 - HIGH-QUALITY printing results with high run-out accuracy
 - HIGHLY-FLEXIBLE set-ups with high repeat accuracy
 - Bearings LAST LONGER due to vibration-dampening
 - RIGID connection of plate and format-cylinder
 - BETTER synchronization behavior on technology-dependant velocity variations

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