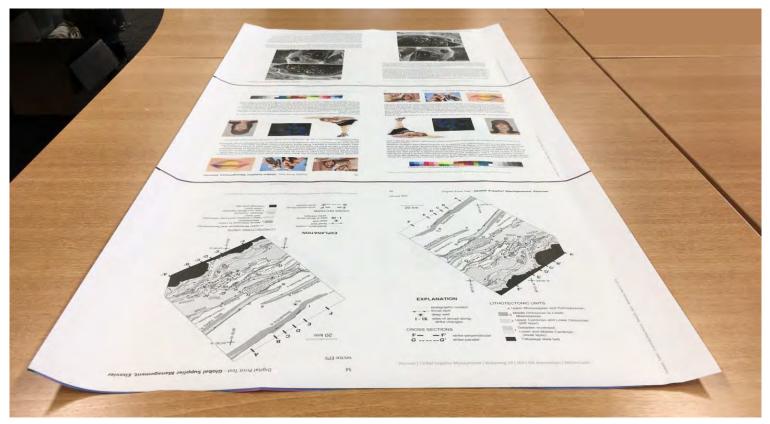


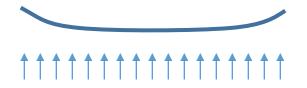


CONTIWEB DIGITAL FLUID APPLICATOR (DFA)

Remoistening



- Curling control.
- Flatness of the signatures.
- Mixing of long- and short grain signatures.
- Growth of the cut books.
- Page turn over of short grain books.
- Broken folds.
- Break out of staples.







Metered Remoistening & Silicone Application







Introducing the Contiweb DFA

Applying water and silicone oil



Why apply water?

Eliminating hygroscopic influences on printed products by adding water on the web after printing and drying.

Why apply silicone oil?

Protecting the printed material against mechanical stress especially with inline finishing, folding or cutting.

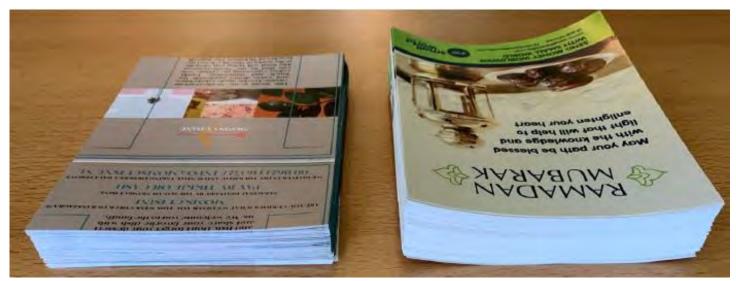
Our reference is:

Market leader in HSWO: remoistening unit is integrated in the chill stand of Ecocool/Ecoset dryers: 530 installations worldwide since 2004.

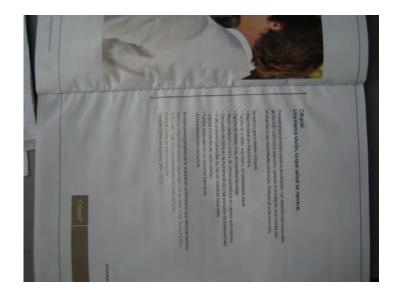
Innovation: using 100% silicone oil instead of silicone emulsion.



Remoistening

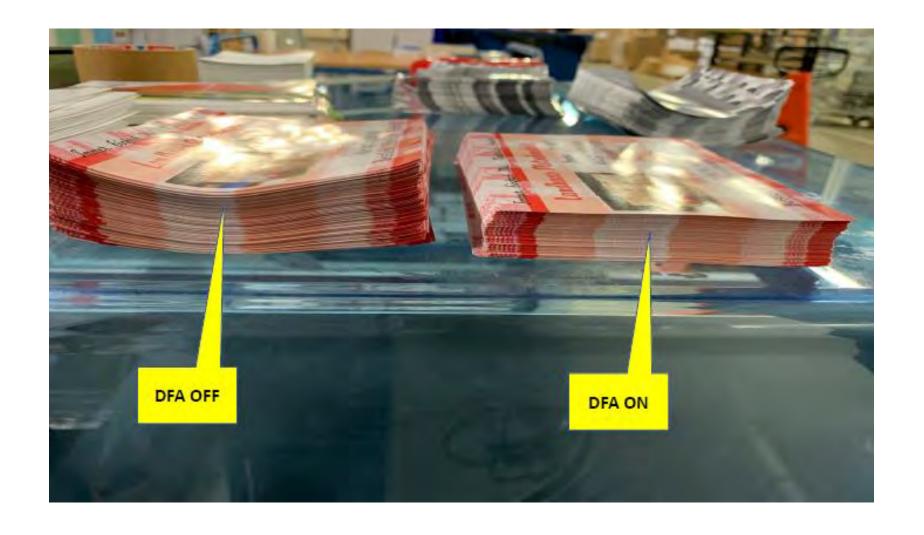


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Print Samples DFA On & DFA Off





Print Samples DFA On & DFA Off





Signature Growth



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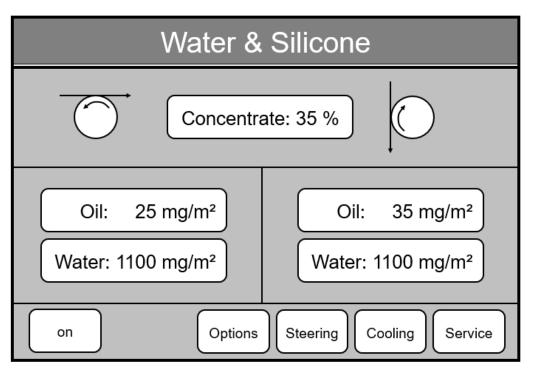


Design





Remoistening system - Control



- Control per side
- Control Per fluid
- Allows optimization (folder nose side)
- Allows reproducing setup for same product
- Allows to track the consumption



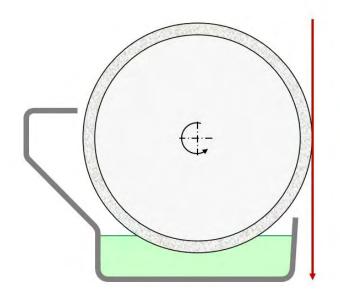
Simplicity of Operation

Table 6: Water coverage per side

Grammage g/m ²	Basis weight Ib	Remoistening percentage						
		1.0 %	1.5 %	2.0 %	2.5 %	3.0 %	3,5 %	4.0 %
		Water coverage per side in mg/m ²						
30	20	150	200	300	350	450	500	600
37	25	200	300	350	450	550	650	750
45	30	200	350	450	550	650	800	900
52	35	250	400	500	650	800	900	1050
60	40	300	450	600	750	900	1,050	1200
67	45	350	500	650	850	1000	1150	1350
75	50	350	550	750	950	1100	1300	1500
82	55	400	600	800	1000	1250	1450	1650
89	60	450	650	900	1100	1350	1550	1800
97	65	500	750	950	1200	1450	1700	1950
104	70	500	800	1050	1300	1550	1850	2100
112	75	550	850	1100	1400	1700	1950	2250
119	80	600	900	1200	1500	1800	2100	2400
127	85	650	950	1250	1600	1900	2200	2550
134	90	650	1000	1350	1700	2000	2350	2700
142	95	700	1050	1400	1750	2100	2500	2850
149	100	750	1100	1500	1850	2250	2600	3000



Applicator – Absorbant Sleeve Roller

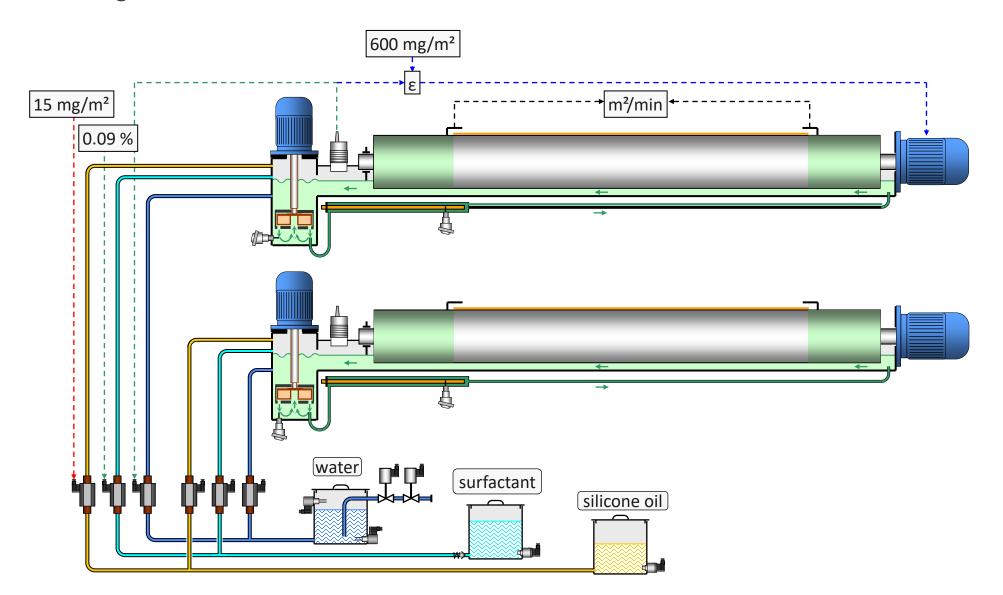




- Metered amounts of solution applied via patented process
- Apply different amounts of metered water & oil to each side of substrate
- Application of (silicone) oil is optional

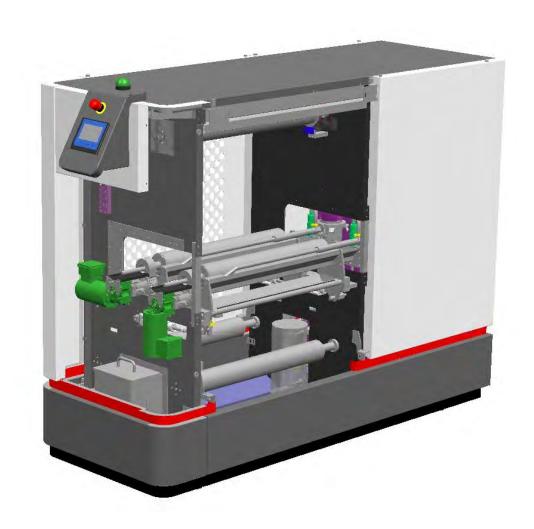


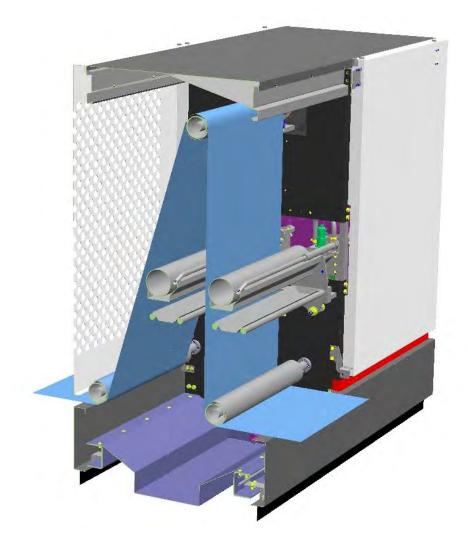
Process diagram





Design

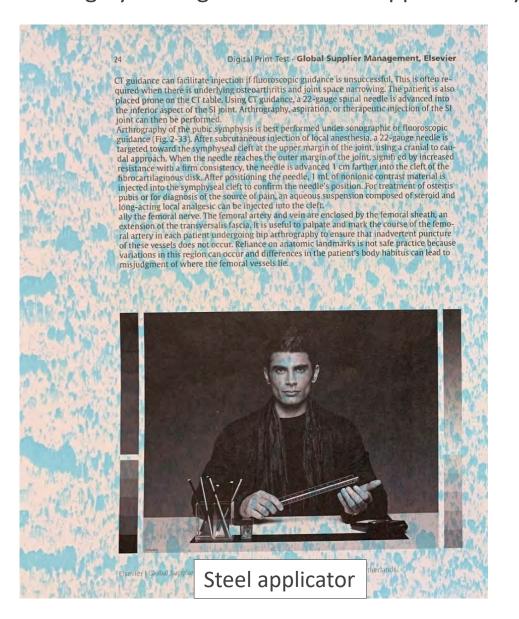






More even distribution by using water absorbant sleeves

Testing by adding blue ink in the application system



Digital Print Test - Global Supplier Management, Elsevier CT guidance can facilitate injection if fluoroscopic guidance is unsuccessful. This is often required when there is underlying osteoarthritis and joint space narrowing. The patient is also placed prone on the CT table. Using CT guidance, a 22-gauge spinal needle is advanced into the inferior aspect of the SI joint. Arthrography, aspiration, or therapeutic injection of the SI joint can then be performed. Arthrography of the pubic symphysis is best performed under sonographic or fluoroscopic guidance (Fig. 2-33). After subcutaneous injection of local anesthesia, a 22-gauge needle is targeted toward the symphyseal cleft at the upper margin of the joint, using a cranial to caudal approach. When the needle reaches the outer margin of the joint, signified by increased resistance with a firm consistency, the needle is advanced 1 cm farther into the cleft of the fibrocartilaginous disk. After positioning the needle, 1 mL of nonionic contrast material is injected into the symphyseal cleft to confirm the needle's position. For treatment of osteitis pubis or for diagnosis of the source of pain, an aqueous suspension composed of steroid and long-acting local analgesic can be injected into the cleft. ally the femoral nerve. The femoral artery and vein are enclosed by the femoral sheath, an extension of the transversalis fascia. It is useful to palpate and mark the course of the femoral artery in each patient undergoing hip arthrography to ensure that inadvertent puncture of these vessels does not occur. Reliance on anatomic landmarks is not safe practice because variations in this region can occur and differences in the patient's body habitus can lead to misjudgment of where the femoral vessels lie. Absorbant sleeve applicator



Pictures of 22" version









Exit web to finishing



Front side door open



Design in 43" version







Advantages

Operational improvement

- Accurate remoistening setting in g/m² for each side.
- Accurate silicone oil coverage setting in mg/m² for each side.
- Possible to use as remoistening only, or as combined silicone applicator and remoistening.
- Fast reaction time with change in volume (small mix buffer per side).
- No need for biocides.

Quality improvement

- Eliminates hygroscopic influences on printed products.
- Protects the printed material against mechanical stress.
- Special application roller for even application of water and silicone oil.
- Better control over print quality using silicone oil, no additives like in silicone emulsion.

Investment and operational cost reduction

- Combined functionality for remoistening and siliconizing.
- Works with pure silicone oil and surfactant, no need for silicone emulsion.
- « Drinks from the tab », no RO water nor additives required.
- Minimum 60% cost savings on consumption of silicone.



North American authorized agent:



11369 Higgins Airport Way Burlington, WA 98233 (USA) (360) 466-5577

Contact: Dave Gilmore, VP of Sales dgilmore@impressionsworldwide.com (619) 548-1409

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Thank you

