

20% 90

90%/100%

C+N

80% 40% 20

90%/100%

M+Y

80% 40%

90%/100%

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The experts use a 3-D microscope to check whether the cylinder has been produced in line with specifications. The microscope measures the geometry and volume of the cells.

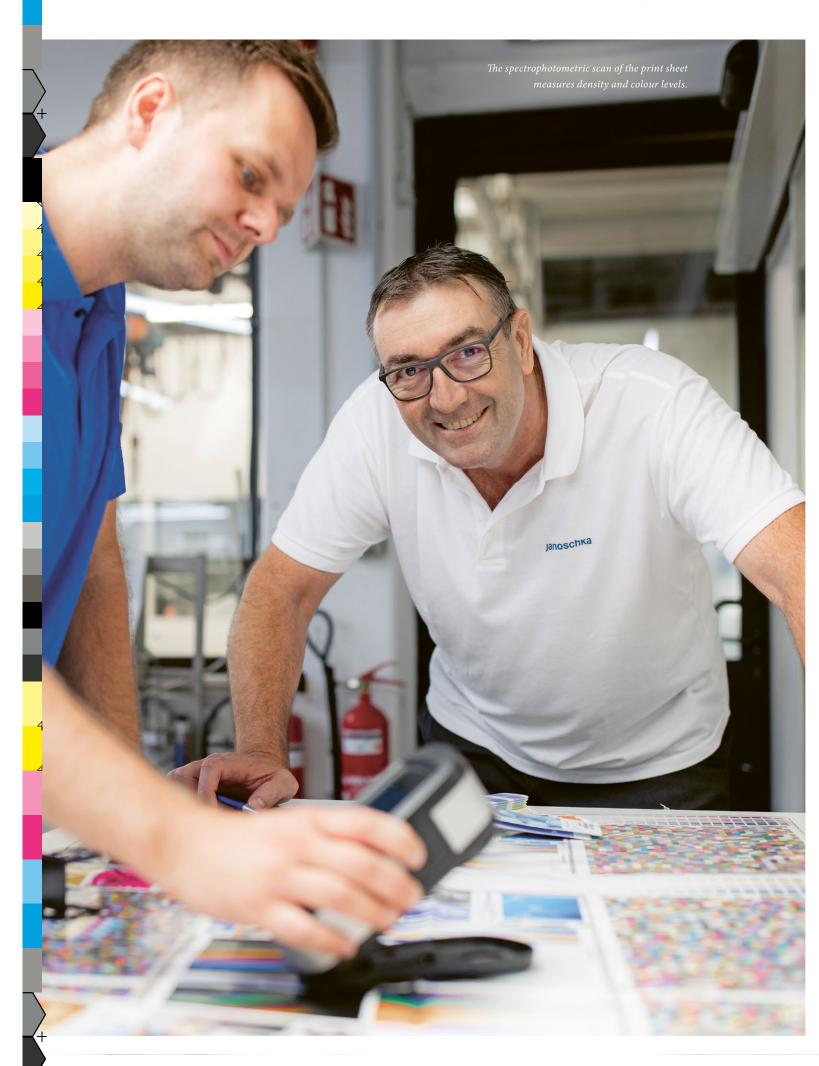


Colours are no longer just a visual effect. Today they are measurable, defined values. And who knows this better than the experts at Janoschka? To get perfect printing results, they use their ex-vote our entire know-how to this profiling process. tensive know-how to coordinate the interaction Within a few hours, we can define a colour space of up to seventy variables. These include the that reflects all relevant parameters and further various makes of printing ink with their different shortens the lead time for each new product." solvents, pigments and properties, the range of etc.), the printing tools with their screens, angles and gradations; all the way to the printing presses the company's entire extensive prepress prothemselves, with their varying parameters, such cess know-how bears fruit. The reproduction is as counter-pressure, speed etc.

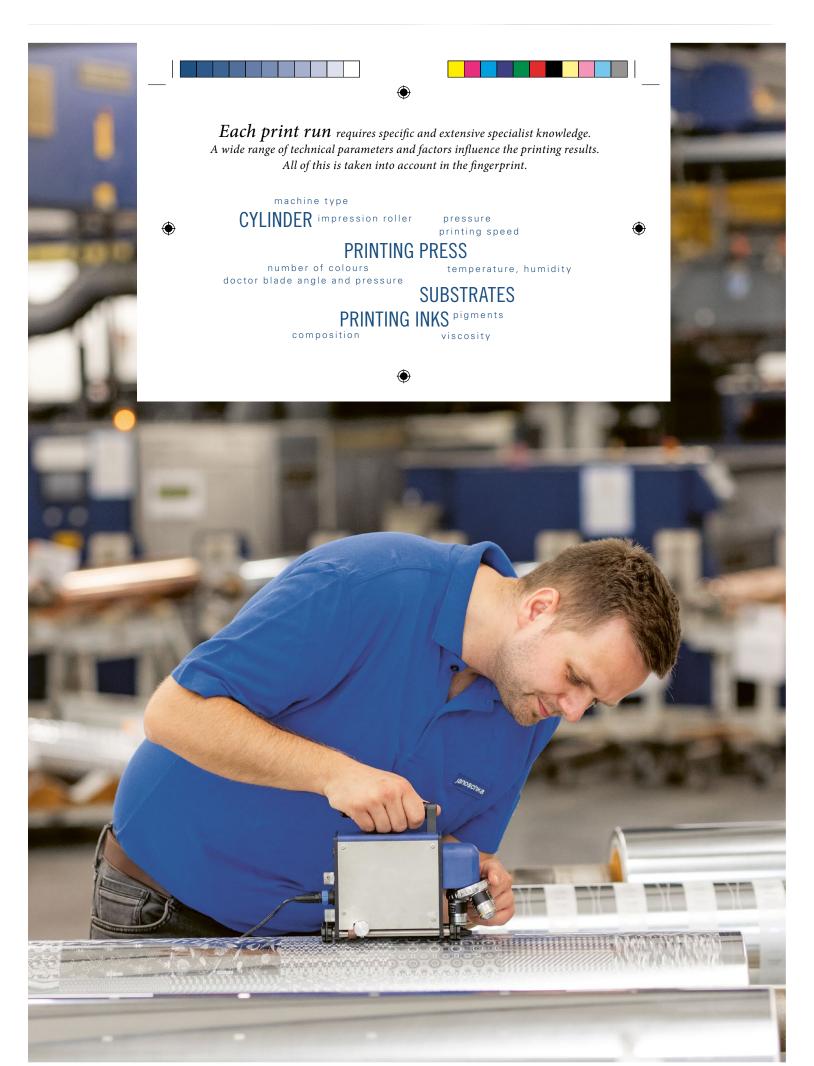
method for producing contract proofs out of these then print suitable reference images, test charts complex interactions for which there are hardly any industry standards," according to Dirk Jauch, Technical Print Consultant, Janoschka Holding.

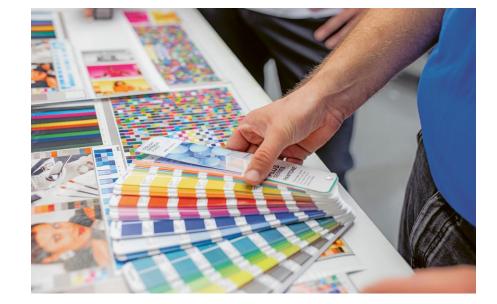
"Everyone involved - from the manufacturers of print substrates, printing ink and doctor blades, all the way to us, the cylinder makers, of course, de-

which is continuously being tweaked, is where therefore not only based on the respective printing process, but is also tailored to the facilities of "Colour management is the unique and reliable a specific printing plant. The prepress specialists and control elements on site using a test cylinder. This provides a snapshot of the individual printing conditions of a specific printing plant. ▶



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All cylinder parameters, the settings on the print- "It used to be the case that you tried to compening press, the respective substrate etc. are documented exactly. This forms the basis for later production. Using the fingerprint, we determine press proof and attempted to correct the colour the so-called characterisation data that describe results, by adding fresh ink, for example. That the colour space of precisely this specific print all took time and used up a lot of material, and condition," adds Simon Schnaider, Technologist even then the result was often unsatisfactory," Imaging and Printing, Janoschka Deutschland. "The result is an individual colour profile to pro- ment, the printer-specific conditions are already duce printer-specific colour separations."

To avoid any discrepancy, this colour profile is crucial for all later print runs. They must all correspond exactly with the characterisation data, which is the so-called fingerprint. From then on, the reproductions are no longer based on the printing technique, but instead are tailored to the specific printer's conditions.

considered in the digital phase, allowing us to avoid costly failed runs during production." ▶

sate the variations in the printing result by adjust-

ing the printing machine settings. You created a

remembers Jauch. "Thanks to colour manage-

Meticulous measurement of the whole print sheet: a measuring instrument runs over each of these charts, known as "GMG ECI 2002 random", using the 1,504 different coloured measuring fields to create a profile.



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checked visually and using measuring instruments.

The print experts from Janoschka use their know- Advantages that make colour management a sustainhow to offer an extensive service package and help their customers achieve perfect colour matching with print support and consultancy. "The four to eight When it comes to brand products, packaging is a hours spent on fingerprinting pay off very quickly," Jauch says, speaking from experience. "By avoiding failed runs and corrections on printing presses, the brand owners face high cost and time pressure. set-up times are shorter and our customers not only kilograms of ink, but also valuable time."

able principle to boot.

marketing instrument, and highly accurate colours are essential. At the same time, both printers and Colour management using fingerprinting is the key save thousands of metres of substrates and many to consistent, reliable, reproducible, plannable and more economic print production.

1. GENERATE FINGERPRINT

