

A close-up view of a large industrial printing machine. The machine features a prominent blue roller and a highly reflective, polished metal roller. The background is filled with various mechanical components, pipes, and structural elements in shades of blue, orange, and yellow, suggesting a complex and modern manufacturing environment.

Printing New Age

For efficient and high quality printing

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Why does printing world need a New Age?

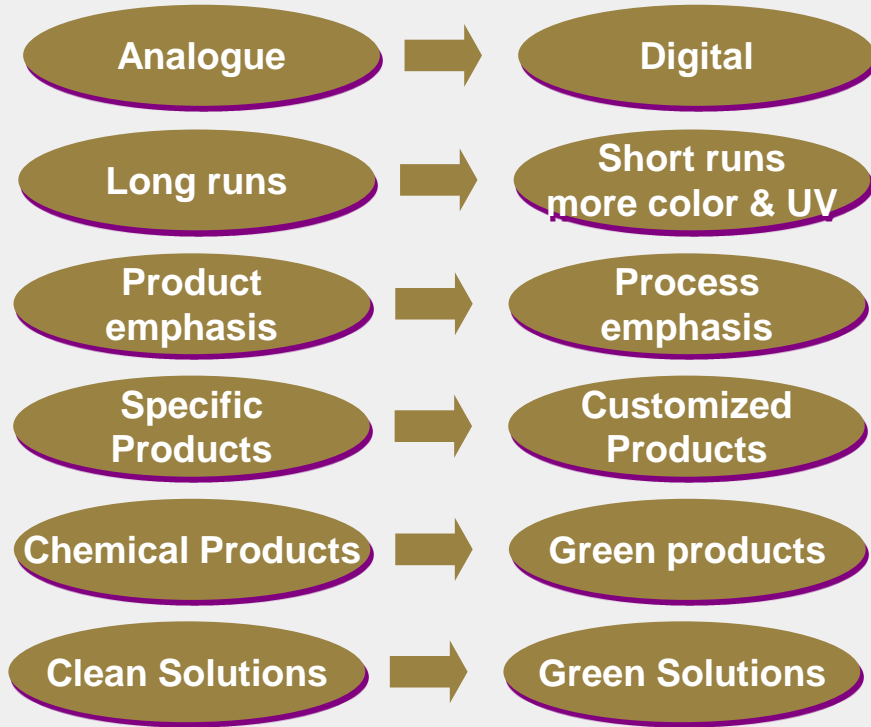
Cost pressures

Process
excellence and
automation

Sustainability

Optimum
rolling
characteristics

Market dynamics



IMPACT ON THE BUSINESS

- **Less set up time**
- **More colour, specialization, high quality**
- **Overall product process is important**
- **“Good products are no longer enough”**
- **Total control & automation**
- **Consistency of output across complete group**



New Age Printing blankets

Requirements of New Age printing blankets

- Ability to handle lower GSM
- Ultra wide webs
- High density pigments
- Handle both UV and conventional inks (hybrid process)
- Compatibility with low energy inks (H-UV/LED)
- Rheology of ink and cleaning solvents
- Automation of cleaning process
- Fractional webs
- Daily use of FM, recycled newsprint



Properties of the New Age printing blankets

- Better elastic properties
- High dimensional stability
- Suitable compressibility @ Indentation force levels
- Anisotropic levels
- Durable lifetime
- Compressibility and deflection



Properties of the New Age printing blankets

Multitude of complex variables

- Viscosity
- Surface tension
- Wetting
- Curing
- Chemical affinity
- Abrasion
- Chemical resistance
- Dynamic properties



Effects of the changes

Engineering fabrics

Low stretch carcass
Water solvent protection to prevent solvent penetration and also heat
Less sinking
Better wrap
Less distortion thereby sharp reproduction

Polymer technology

Surface chemistry
Energy saving
Customized roughness
Improved mechanical properties
Improved chemical resistance properties

Elastomer technology

Better mileage
Wide thickness of substrates
Faster reboundability
Shock absorption



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Email us printingsm@Trelleborg.com