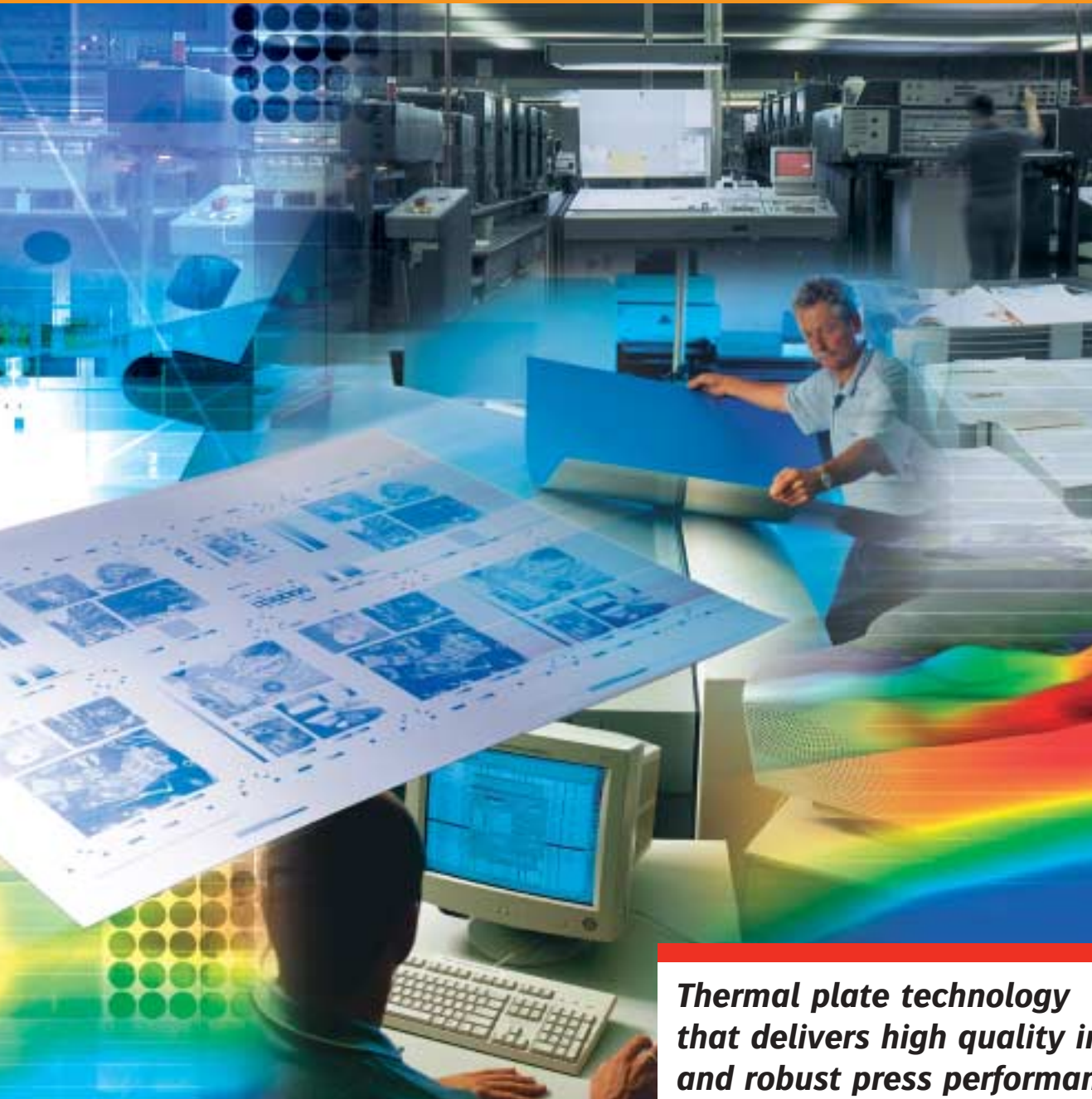


Advanced Thermal Plate Technology

:Thermostar



***Thermal plate technology
that delivers high quality imaging
and robust press performance***

:Thermostar plates set a new standard for high-quality thermal imaging and give your pressroom the steady stream of high-quality plates it needs to stay productive and profitable. They integrate seamlessly with the world's leading thermal computer-to-plate systems, and bring the convenience of daylight operation to any environment.

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:Thermostar

Advanced thermal plate technology

:Thermostar substrate is electrochemically grained and anodized aluminium manufactured to exacting tolerances and known for its excellent lithographic performance.

The lower coating layer is a hydrophobic polymer that provides the basis for :Thermostar's lithographic behaviour, press durability, and the ability to be developed using a standard aqueous alkaline developer.

Thermal-sensitive layer

The upper layer is highly sensitive to infrared light, giving extremely fast imaging speeds. During exposure, the thermal laser causes a heat-induced transformation to take place in the top layer. During development, the alkaline developers penetrate only the exposed areas. The result is a sharp definition between exposed and unexposed areas, creating high-resolution plates capable of 1% to 99% at 200 lpi. This makes :Thermostar appropriate for a wide range of high-quality applications - including stochastic screening.

:Thermostar P970

:Thermostar P970 is a positive-working, 830 nm sensitive plate, compatible with all 830nm plate-setters. The plate is designed for commercial printing applications of medium run lengths, and can achieve up to 100,000 impressions without baking. Optional post-baking after processing enables press runs of more than one million impressions.

:Thermostar P971

:Thermostar P971 is designed for use with plate-setters using high-power infrared thermal imaging systems (1064 nm).

Based on the same innovative two-layer coating technology as :Thermostar P970, :Thermostar P971 offers the same important benefits of fast imaging, convenient handling, and excellent press performance.



Specifications

Feature	:Thermostar
Plate type	Thermally exposed aluminium laser plate for sheet and web offset
Coating	Two-layer system, infrared sensitive, positive acting
Gauges	0.15 mm, 0.20 mm, 0.24 mm, 0.30 mm, 0.40 mm 0.006", 0.008", 0.010", 0.012", 0.016"
Sizes	1500 x 2000 mm in 0.40 mm 1483 x 2000 mm in 0.30 mm
Spectral sensitivity	830 nm (P970); 1064-1080 nm (P971)
Resolution	1-99% dot rendering at 200 lpi
Image colour	Blue-green (P970); bright blue (P971)
Processing	Conventional wet processing using standard positive-type developer
Processor speed	0.7 - 1.2 m per minute
Temperature	25 ±3°C (77 ±5°F)
Replenishment rate	100 ml/m ² , depending on use
Run length*	100,000 without post-baking, 1 million+ with baking
Lighting conditions	Daylight
Storage conditions	:Thermostar plates should be stored in the original container under ambient conditions of less than 30°C (86°F) and 30 - 70% relative humidity

* Depending on press conditions and image content

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Argentina (Paraguay and Uruguay),
Tel.: +5411 4958 9300
Australia, Tel.: +61 3 9279 6300
Austria, Tel.: +43 1 89112 3290
Belgium, Tel.: +32 3 450 9736
Belgium Direct Export,
Tel.: +32 3 444 7120
Brasil, Tel.: +55 11 5188 6444
Canada, Tel.: +1 416 241 1110 4053

or 877 753 2431 toll free
Caribbean and Central America,
Tel.: +305 2135311
Chile (Bolivia, Peru),
Tel.: +56 2 360 7600
China, Hong Kong,
Tel.: +852 2555 9421
Colombia (Ecuador), Tel.: +57 1 425 2790
Czech Republic, Tel.: +420 2 6610 1623

Denmark, Tel.: +45 4326 6766
Finland, Tel.: +358 9 8878 319
France, Tel.: +33 1 4732 6905
Germany, Tel.: +49 221 5717 0
Greece, Tel.: +30 1 570 6500
Hungary, Tel.: +36 1 212 1540
Ireland, Tel.: +353 1 450 6733
Italy, Tel.: +39 02 3074 220
Japan, Tel.: +81 3 5704 3140

Korea, Tel.: +82 2 2262 4200
Luxembourg, Tel.: +352 442 0441
Malaysia, Tel.: +603-7953 5800
Mexico, Tel.: +52 55 52 767600
Netherlands, Tel.: +31 70 413 1211
New Zealand, Tel.: +64 9 443 5500
Norway, Tel.: +47 67 06 88 00
Poland, Tel.: +48 22 3 111 940
Portugal, Tel.: +351 21 414 6700

Singapore, Tel.: +65-6214 0110
South Africa, Tel.: +27 11 921 5911
Spain, Tel.: +34 93 476 7600
Sweden, Tel.: +46 8 793 0100
Switzerland, Tel.: +41 1 823 7111
Taiwan, Tel.: +886 2 2516 8899
UK, Tel.: +44 20 8231 4929
USA, Tel.: 800 227 2780 toll free
Venezuela, Tel.: +58 2 12 263 6344

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