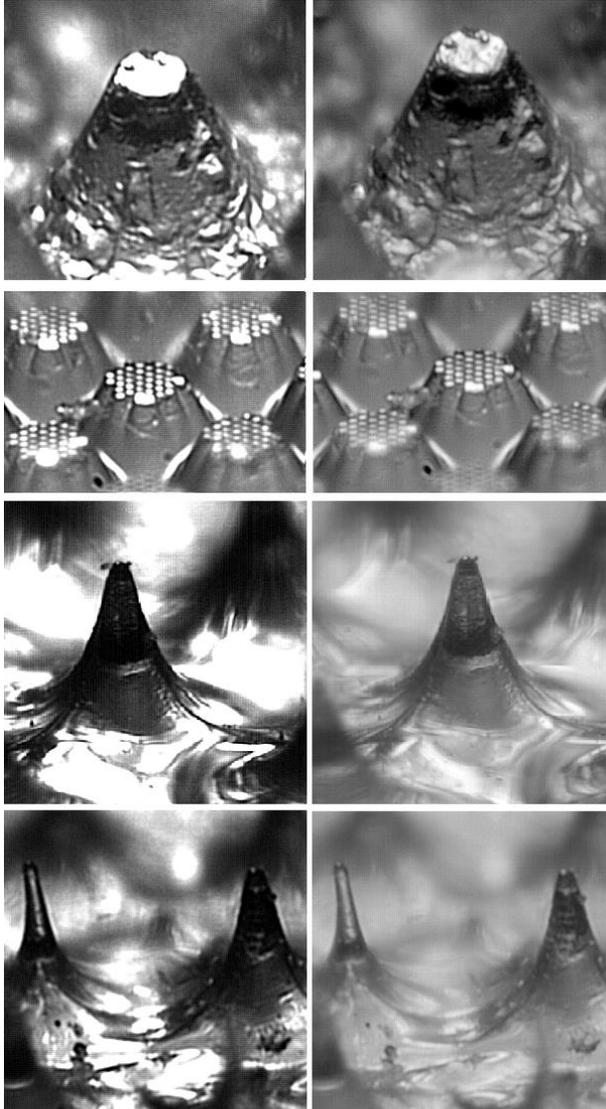

The FLEX³PRO HDRC image capture makes every detail visible



STANDARD

HDRC

The printing dot is the critical link required to transfer image information from digital data to printed products. The FLEXO dot is a three-dimensional object, that needs to be created by the FLEXO plate making process in a constant and repeatable manner such as it will be stable enough to face the challenge of the printing process. In the printing press the dot will be exposed to extreme stress being squeezed, dragged, and abraded, while it has to transfer ink from the Anilox to the plastic film or paper in a highly precise and repeatable manner.

Many innovations have been introduced into the flexo plate making process in recent years. The Flexo Dot now can be shaped using various technologies. We can produce flat dots, contour the shoulder of the dot, and introduce micro structures inside the dot surface aimed to provide the most repeatable ink transfer and the highest possible print quality.

This makes the quality control process of the flexo dot indispensable, especially for highlight dots. Little details in the dot shape can differentiate between a high-quality printing product, or a printing product with pin holes, missing dots, high dot gain and other critical problems.

PERET has developed a new HDRC (High Dynamic Range Capture) algorithm and implemented it in the FLEX³PRO Software

version 4.3. The new HDRC function automatically captures a series of images with different illumination and camera parameters, extracting any detail from every single image and combining it to one single result image. Select the HDRC Flag and start the capturing process as usual. No additional mechanical settings on the device are necessary. After a few seconds the high-dynamic range image is displayed. As you can see in Figure 1 every tiny detail of the dot shape, the polymer smoothness, the surface structure, the quality of shoulder etc. can now be seen easily.

The FLEX³PRO Software version 4.3 with HDRC is the ideal tool to verify that the dot structure and stability, will last for the entire run of the job.