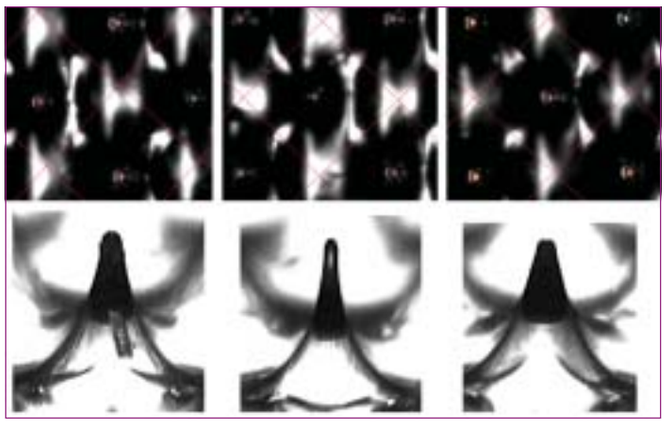

Figure 3:
Top view of smallest dot vs 3D view of the same dot.

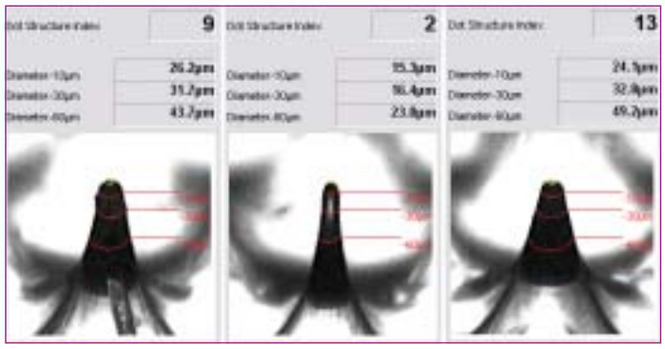

Figure 4:
The Dot Structure Index.

Figure 5:
A small dot with steep top.

Peret was founded by key engineers of the former *Viptronic* company in late 2009. The staff has more than 20 years experience in developing, manufacturing and selling offset and flexo plate readers, densitometers, spectrophotometers, and inline measurement systems. The *FLEX³ Pro* has been developed based on 13 years of experiences with the popular *Vipflex*.

FAG, a worldwide supplier of quality control systems for every step within the production chain, had also been involved in the foundation of *Viptronic* and had sold their products worldwide during the 20 years of *Viptronic*'s existance.

can be used to keep the dot shape of the smallest printable dot constant. It is calculated by using the *formula* below. The smaller the dot and the steeper the shoulders, the lower the DSI will be (*figure 4*).

It has to be figured out if the smallest dot is resistant enough to print throughout the entire run of the job, it may break during cleaning or printing and create a void or bend and print as a line. A print test will not always give the complete answer as a test form typically is printed in short runs only. A 3D visual check of the plate will help to forecast the mechanical resistance of the dot (*figure 5*).

The *FLEX³ Pro* plate reader offers a totally new, easy to use and affordable way to take the next important step in quality control. Checking is very quick, by comparing any two images or by using the 3D picture of the dot thus making the analysis straight forward and correction faster, all achieved easily by a simple mouse-click.

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$$\text{Index} = \text{Normalise}\left[\frac{(\text{Diameter\_minus10}+\text{Diameter\_minus30}+\text{Diameter\_minus60}) \times (\text{Diameter\_minus60}-\text{Diameter\_minus10})}{50\text{microns}}\right]$$

Combo line

RAJOO ENGINEERS ■ The *Foilex* series HMHDPE blown film line comes with a high-speed 3-lane automatic T-shirt bag-making machine. This combo machine is designed for various standard sizes and the thickness of the T-shirt bags perfectly matches the market requirements. It comes with a volumetric dosing device for feeding masterbatches, an oscillating die, aluminium roller collapsing frame and a single station, fully automatic winder to handle output at a higher line speed. The monolayer blown film line continuously produces 250 kg/h of 25-micron/1200 mm wide film. It is equipped with a 90 mm extruder, 200 mm die and an imported single-lip air ring.

The bag-maker incorporates a high level of automation with servo-controlled indexing for bag length accuracy. It takes a maximum web width of 1200 mm to produce gusseted bags of maximum 260 mm width.

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