

Rotary screen printing press

The innovation

The innovation presented enables fast and large-scale printing using a screen printing process with a rotary cylinder. The technology outperforms all available printing systems on the market. As a 2-in-1 system, the module can easily be adapted as an add-on to existing machines, for example sheet-fed machines.

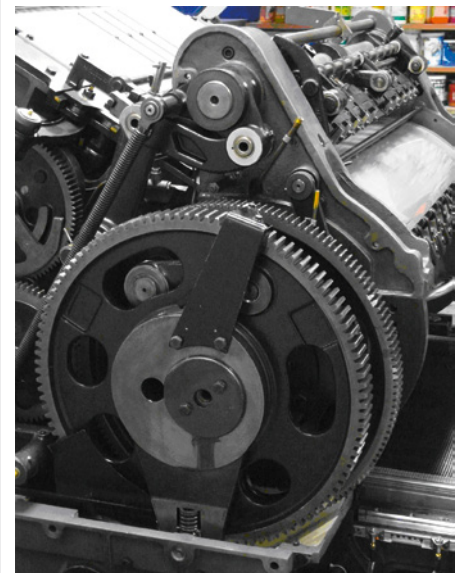
The rotary screen printing press produces thick-film structures even with UV-inks at speeds ranging from 1.2 to 4.2 m/s. This results in a printing capacity of more than 6,000 B3 format sheets per hour, even with full surface coverage.

Based on the rotary cylinder with mounted screen, the patented, controllable blade angle and controllable insert lead to an optimal print result. The technology, developed with the

prototype, enables fast printing plate changes and short set-up times. The intelligent ink supply prevents the unintended accumulation of paint. Designed as a closed system, the printing head ensures a high level of safety when working with critical printing and coating materials. The system presented fulfils the requirements of the Hazardous Materials Act (AGW).

The field of application for this patented printing technology is the graphical industry as well as various industrial sectors with regard to surface and coating methods.

Both the combination of the two printing methods and the classical screen printing method specifically enable printing of plastics, paperboard containers and paper with special inks or substrates.



Keywords

- Screen printing
- Multicolour printing
- Surface finishing, effect printing
- Printing module
- Sheet-fed printing
- Offset printing

Areas of application

- Optical prints
- Technical prints
- Haptic effect prints
- Special prints
- Film and foil printing
- Coating

(Solution for) industries

- Medical technology
- Decoration and post graphic
- Glass industry
- Green energy / solar
- Optoelectronics
- Biotechnology
- PCB technology

Patent status

The invention is filed nationally and granted. It is owned by ZYRUS Beteiligungsgesellschaft mbH & Co. Patente I KG. The application was filed in October 1999.

Advantages at a glance

- Both classical screen printing and 2-in-1 system
- Screen printing in offset-quality
- High printing speed of > 6,000 prints per hour
- Parallel multicolour print
- Zone wide ink supply, controllable ink quantity, no unintended accumulation of paint
- Structure print possible
- Print cylinder can be fitted with several screens

To acquire a licence for this new technology, please don't hesitate to contact us!



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