



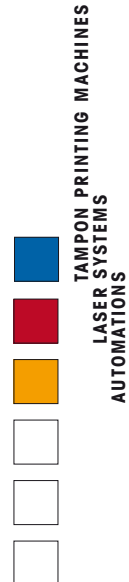
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AUTOMATION

REFERENCE

VIDEO ONLINE!
www.tampoprint.de



Fully automatic 12-colour tampon printing machine for micro printing

24 hours continuous operation / 7 days per week, hourly output: 16.000 parts/h

Setup time for 12 colours / less than 20 minutes

Infeed and discharge of the parts cam-controlled

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ORIGINAL

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Tampon printing machines
ALFALAS® Laser Systems
Automations
DMD® Industrial Inkjet Systems



Figure: Complete line

Technical data:

High-performance fully automated system with 12 printing units:

Output: approx. 16.000 parts/h

Component: toy - upper body part

Material: ABS

Machine series: Rapid 2000/1 externally driven

Number of colours: 12 printing inks

Consumption values: power: 13 kw/h
air: 2.300 NL/min.

Ink type: tampon printing ink R (EN 71)

Ink shades: free selection

Tampon: special tampon

Maintenance intervals: controlled by PLC

Service life: >10 years

Machine Regulation: EG Regulation Machines 2006/42/EG, Appendix II, Part 1A

Highlights:

- 16.000 parts/h, 12 colours
- Alternatively printing on front or rear sides of the printing components, realised by 4 x 90° turning jig carriers
- Easy to maintain thanks to central lubrication with preselectable lubricating intervals
- High machine availability (>98%) thanks to short setup times (12 ink/motif changes in less than 20 minutes)

Dealer:



Figure: Infeed

Technical description:

This high-performance printing line consists of a cycle conveyor with indexed band plates which is controlled by a servo-motor.

The twelve printing machines Rapid 2000/60-1 with the latest technology are driven by a central shaft with servo-motor synchronously to the cycle conveyor.

The supply with unprinted parts takes place by the mechanical infeed (drive via servo-motor), completed by two vibratory feedings with a total of four feeding rows. The printing parts are pressed onto the turning jig carriers, then guided under the printing stations and printed. Using turning jigs (4 x 90°) and movable mechanical turning cams, both the front and rear sides of the printing components will be printed in one working process with a total of 12 colours.

Hot and cold air drying is used as after-treatment. The discharge of the ready printed components takes place mechanically on the bottom side of the cycle conveyor. The parts are transported as bulk material directly into storage boxes using a connected belt conveyor.

Thanks to the four-fold use (4 printing parts on one expanding mandrel of the turning jig carriers) and 4.000 cycles/h a capacity of 16.000 printing parts/h is possible.



Figure: 12 printing machines "Rapid 2000/60-1"

The slewable touch-screen control panel allows a simple and error-free operation of the complete high-performance printing line.

In order to achieve a maximum availability (>98%), this automation is equipped with a central lubrication unit which is controlled depending on the use via the PLC of the automation.

A setup time for all 12 printing units in less than 20 minutes is absolutely unequalled and allows to operate the automation with only one operator.



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