

technologies for your future
made in germany

AUTOMATION



Highlights

- Up to 4.000 parts/h printed with 5-colour motifs** ✓
- Efficient for small lot sizes (motif change)** ✓
- After filling 1,5 hours of autonomous system operation** ✓
- Mechanically driven tampon printing machines with integrated ink residue pick-up system** ✓



Reference Plugs (soother shields)

Company Novatex did a research and the winner was the tampon printing. At first, they were interested in the digital printing of TAMPOPRINT®, but during a personal consultation it became quickly clear that the tampon printing is the better option. TAMPOPRINT® convinced with its range of services and received the order to build a fully automatic system.



Feeding with pneumatic infeed handling 2-fold (vacuum exhauster)



Pre-treatment station guarantees optimal ink adhesion



Intermediate drying station for printing "wet in wet"

Modern parents

also want modern baby articles. And a soother alone is no longer sufficient. A choice of brands and countless motifs should be available.

The challenge was to print the plugs for the baby soothers in an economical and flexible way. Smallest lot sizes

ask for high operating efficiency when retrofitting from one motif to the other. Every minute counts when changing ink and cliché.

The restarting of the machine for the next motif may produce only a very small number of misprints (rejects). Parts which are considered per definition as "bad parts" when the system is started, can be directed into separate reject boxes using an appropriate reject gate.

The integrated ink residue pick-up system is a perfect solution as it is incorporated in the housing of the printing machine to save space. It cleans the tampon BEFORE printing takes place. The inspection via sensors for complete filling of the workpiece carriers prevents the tampon to be damaged because of an unloaded workpiece carrier. The incompletely loaded workpiece carrier will be cycled through the machine while no printing process takes place and the single plug which has been placed into it will be removed at the discharge for rejects.

Dealer:

A print image control using a camera system was set aside but it would be possible to retrofit it.



This high-performance tampon printing line for the company Novatex is equipped with 5 tampon printing machines of the "Hermetic 9-11 universal" series. The high hourly output of up to 4.000 parts is achieved thanks to double use (2 plugs in one workpiece carrier).

A cam-driven branded rotary index table with satellite-shaped arrangement of tampon printing machines and peripheral units form the core of the automation.

The bowl feeder with a subsequent channel and the parts separation guarantee that always two parts are fed in correct position to the discharge handling.

The workpiece carriers are fit with parts and emptied by pneumatically driven handling units. Before the printing process takes place, there is an activation of the printing surface for a perfect ink adhesion using low frequency Corona pre-treatment. After the printing process, there is an infrared shock drying in order to further process the dust-dry parts as bulk material.

Technical Data

High-performance tampon printing line for baby articles

Output:	up to 4.000 parts/h
Component:	Plugs for soother shields
Parts material:	PP
Machine series:	5x "Hermetic 9-11 universal" with integrated ink residue pick-up system
Pre-treatment:	Low frequency Corona
Ink type:	Tampon printing ink HS (2-component ink) with 10% hardener LMN
Number of colours:	5 (free choice)
Control:	VIPA SPS, Siemens S7 compatible
Service life:	> 10 years
Machine Regulation:	EG Regulation Machines 2006/42/EG, Appendix II, Part 1A



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