Bonding varnished stacks
We have been working with bonding varnish (Backlack) since 1998 and we have helped to develop the materials and processes. Today, we have a lot of experience regarding strength, processing and ageing. The advantages compared to other stacking technologies are widely accepted. We are working with major electric steel manufacturers to further improve bonding varnish. At the same time, we are developing the stacking processes to improve quality, reduce quality controls and lower costs.

One of our specialties is the production of small, precise stacks from 0.1-0.3 mm electrical steel with bonding varnish. We can do all from the strip layout until the manufactured and validated stack. This includes design and manufacturing of the stamping tool, production of the parts and quality control.

Process ability
We have developed the bonding varnish process so far to be able to produce with highest quality and repeatability. This includes not only the exact stacking of the sheets, but also the control of the length of the stack and the tight bonding of the sheets without leakage of bonding varnish.

We are currently producing several series for motor manufacturers and automotive suppliers, with further projects in development stage.

Plain benefits
The benefits of this technology are apparent.

- High mechanical strength of stacks and possibility to machine
- Laminates are insulated, seldom short cuts between sheets and therefore better magnetic properties
- High precision of stacks
- Interconnection all over the sheets, no cushioning and no absorption of liquids and oils
- Simpler stamping dies and therefore cheaper tooling

We would be proud to support you in developing and producing high quality stacks – contact us!

SWD AG – your partner
SWD AG – Stator and Rotor technology is an innovative medium-sized company in Switzerland. We are dedicated to the development and production of lamination stacks and support our customers with new technologies from prototypes up to series production.

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