

## Surface finishing of profiling rollers with Rösler plunge finishing systems

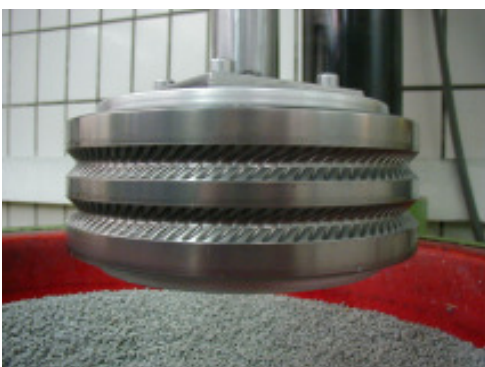


Profiling rollers are utilized to generate a corrugated pattern on the surface of steel products, (i. e. structural steel). Corrugated steel is primarily used in the building industry. Profiling of the sheet metal surface is the final step in the overall manufacturing process.

Due to the high stresses the profiling ring is exposed to, the teeth must be re-milled regularly. After re-milling, the ring's surface must be deburred, usually a time-consuming manual process, frequently resulting in poor deburring.

**Plunge Finishing offers the ideal solution to this problem!**

Plunge Finishing provides considerable cost savings compared to manual deburring. Even more important, it produces consistent, repeatable finishing results which yield longer uptimes for the profiling rollers, and improve the surface quality of the end product.



### Testimonials from customers utilizing the Rösler plunge finishing technology:

- > „.... After we started surface finishing the profiling tools with your plunge finishing system, we were able to increase the travel speed of our material from 80 m/sec to 100 m/sec...“
- > „.... The life of our profiling tools was 3 - 4 days when deburring them manually, now we have to re-mill them only every 20 - 25 days!“
- > „.... Material vibration (fatigue) tests a Technical University showed a 100% improvement → This means that the occurrence of surface cracks due to uneven radiusing of profile teeth was significantly reduced.“
- > „.... We foresee more applications for plunge finishing technology in our company, and more requirements for Rösler plunge finishing systems!“

Potential customers are steel mills producing corrugated rebars and wire which are the base material for steel mats for the building industry.



Technical Information

