

Field Service Specialist PikoTeknik Oy in Finland – one year with Voith Paper now

1



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Happy Birthday – PikoTeknik! The Finnish Field Service Company PikoTeknik Oy is a member of the Voith Paper for one year now!

By acquiring PikoTeknik with its wide competence in field service mainly for the paper industry, Voith Paper Service has strengthened its position for Mill Services in the Nordic Countries and especially in Finland. Being closer to the customers in this important market area was the driving force for Voith Paper. Expanding with such activities on a more global basis is the next target.

“Joining Voith Paper was a natural continuation of our deep co-operation with Voith”, says Ingmar Vesterlund, the Managing Director of PikoTeknik. “Thanks to Voith we have access to new valuable know-how for our product development and power to continue our rapid growth in the paper industry.”

PikoTeknik Oy was founded in 1989 by Ingmar Vesterlund and Göran Antila in Pyhäjoki near Oulu in central Finland and has meanwhile become the biggest company in Finland specialising in on-site maintenance and coating of pulp and paper machine rolls and cylinders.

After being an established player for more than 15 years mainly on the Finnish and Scandinavian markets, PikoTeknik now intends, together with Voith Paper, to focus on other markets in the world, too.

PikoTeknik has know-how, wide experience, flexibility and innovative product development concerning work that has to be performed at the customer’s facilities during short downtimes.



2



3



4

The main expertise of PikoTeknik Oy lies in:

- coatings: wear-resistant, frictional, non-sticky and repair coating
- on-site machining: grinding, grooving, drilling of drying cylinders
- repair of machine parts
- inspecting rolls and drying cylinders at the customer's facilities
- balancing rolls and drying cylinders at the customer's facilities and even in the machine.

"In the production process of a modern paper mill it is of essential importance that all potential bottlenecks are foreseen in time. On-site solutions help to decrease machine downtime and improve runability. Working directly in the mill takes less than half the time required for traditional off-machine cylinder maintenance, grinding or coating in combination with time consuming cylinder replacements", says Ingmar Vesterlund.

Optimal cylinder performance for years

PikoTeknik has developed its methods, a wide assortment of equipment and special tools in co-operation with Finnish paper mills and the Technical Research Center of Finland.

As an important solution to the sticking, dust and corrosion problems which might even lead to frequent paper breaks,

PikoTeknik has developed a comprehensive selection of coatings. For example **PikoClean**, which is a non-stick composition coating with high ability for doctoring. It combines the unique qualities both of hard carbides and repellent PTFE (Teflon). This prevents effectively stickies and fibers from picking, linting and dusting even at high temperatures. Applications on-site have successfully been made on drying cylinders after presses, size presses or coating stations.

Also **PikoFric**, which is a roughening and frictional coating, has been developed for on-site applications on drums in reels and winders. Using the HVOF (High Velocity Oxygen Fuelled) spraying method ensures more effective adhesion with up to 50 % improvement in comparison to plasma spraying methods.

A complete on-site machining to specified dimensional and surface tolerances ensures optimum roll/cylinder performance for several years, that offers the possibility to increase speed and to produce a higher-quality end product.

Fast execution, where needed

There are many examples of fast on-site work:

When Neusiedler SCP a.s. in Ruzomberok, Slovakia, carried out a major machine rebuild project together with Voith Paper in

August 2003, to raise the production capacity from 800 m/min to 1,400 m/min, PikoTeknik was responsible for on-site balancing of 65 rolls, 53 drying cylinders and one suction roll and, besides that, the drilling of several drying cylinders. The work was completed within 11 days.

In October-November 2003 a major rebuild project was carried out at Stora-Enso in Kemi, Finland, together with Voith Paper. PikoTeknik's part included the changing of drives and bearings of 56 drying cylinders, as well as grinding and balancing of the 56 drying cylinders for a speed of 1,400 m/min, drilling of 6 drying cylinders and coating of 5 cylinders with PikoClean, that improves sheet release on dryers.

Together with Voith Paper Service teams, PikoTeknik was involved in several major projects in Germany, Austria and even in India, Indonesia and New Zealand.

This first birthday can be considered as an important milestone towards a long lasting relationship – all the best for further development!

Fig. 1: Main building of PikoTeknik Oy in Finland.

Fig. 2: On-site grinding of a drying cylinder.

Fig. 3: On-site coating of a drying cylinder with PikoClean.

Fig. 4: Application of the Teflon layer.