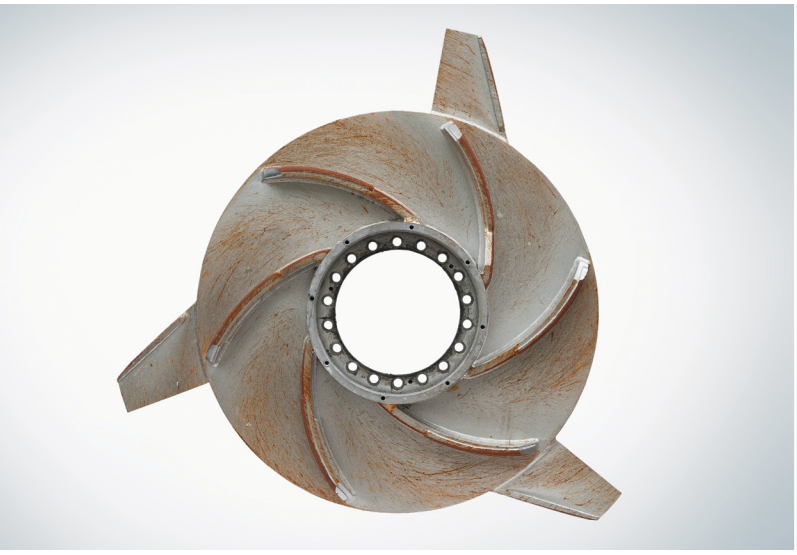
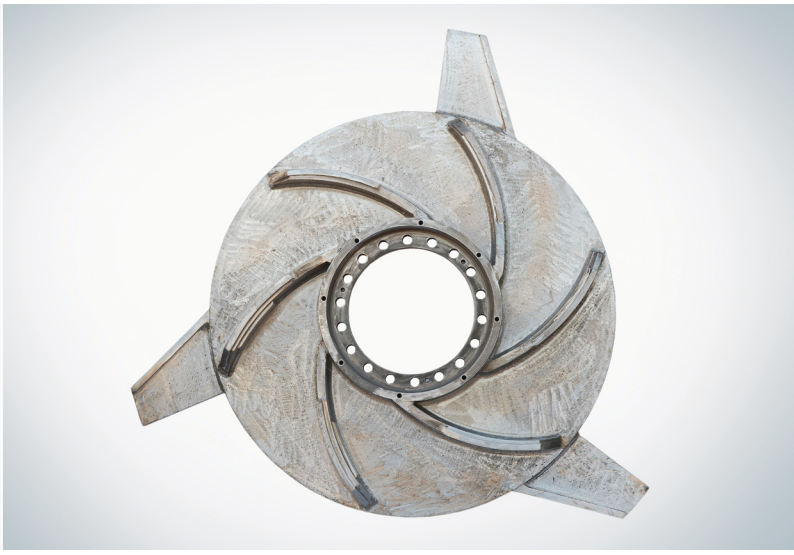
# Pulper and Flat Screen Rotor Refurbishment Service





**Local service for long-lasting stock preparation**
Heavy contaminants in recovered paper cause wear to the working elements of your stock preparation machines. In almost all cases, proper performance of these machines depends upon maintaining the original design geometry of the working elements.

Variations in geometry will cause loss of production, which reduces the output of your process equipment. Regular and thorough repairs to the original rotor profiles and hard surfacing layers are required.

Restoring the original design geometry of the working elements provides them with wear resistant edges. The result is an optimum balance between operating costs and technological performance.

With Voith's multilayer system, frequent economical restoration of your working elements is possible without costly removal of the existing hard surface material.

## Customer benefits

+ Reduced energy consumption
+ Optimized maintenance cost and performance
+ Optimized geometry for specific applications
+ Consistent technological performance
+ Predictable repair intervals

### Areas of application

Our services are applicable to all rotor types and screen plate combinations of the stock preparation equipment, irrespective of the manufacturer and type of pulper. On a regular basis, we successfully repair rotor and screen plate combinations of AAG, Black Clawson, Metso, Aikawa, GL&W.

### Cost optimized service intervals

The rotor geometry directly affects energy consumption in a stock preparation system, in addition to the production costs per ton of recycled fiber. Restoring that geometry can sustain the optimal balance between minimizing operating costs and maximizing technological performance.

### References

A refurbished rotor consumes 17 kWh/t to achieve a flake content of 20 %. A worn-out rotor, however, consumes 20 kWh/t to reach the same flake content. An unprofessional rotor refurbishment can make the situation even worse (see figure 1).

Figure 2 depicts routine rotor refurbishment at a Dutch paper mill. Since 1991 Voith has refurbished these rotors, which still have their original geometry, while some rotors have been overhauled more than 30 times.

### Options

Voith offers refurbishments on an individual order basis or as a maintenance and repair program for ongoing repairs. A service agreement for the refurbishment of rotors and screen plates can be selected. In addition, new rotors and screen plates can be included too.

In both case, the service agreements are reviewed on a yearly basis to match them with the content of the service delivered.

### True local service

Currently, rotor repairs are offered in EMEA from our service centers in Ravensburg (DE), Tolosa (ES), Vaassen (NL), Karlstad (SE) and Polkowice (PL).

**Figure 1:** Effect of rotor wear on pulping efficiency

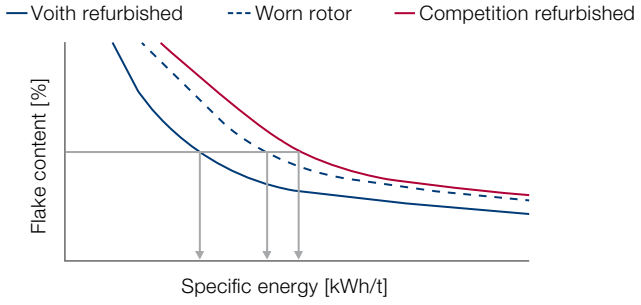
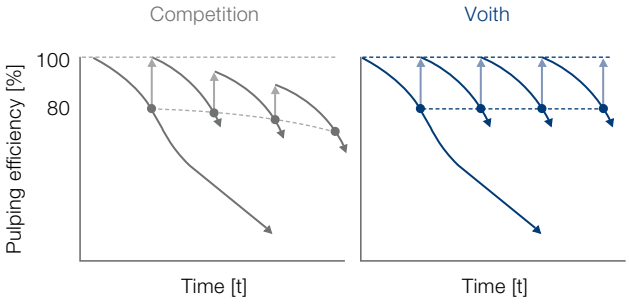



**Figure 2:** Pulping efficiency vs. hardsurfing quality




Voith also offers extended life time refurbishment and repair services for other stock preparation equipment, including screw press refurbishment and general machine body overhaul.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