

TITLE
SPRAY PUMP

LOCATION
METSÄ WOOD, LOHJA FINLAND

SECTOR
INDUSTRIAL

PROJECT BACKGROUND

At Metsä Wood tree trunks are received for further processing into a wooden end product.

The tree trunks must be kept wet for a period between 9 months and 3 years, to avoid warping and cracking of the trunks. Keeping the trunks wet is also better for the durability and it is easier to peel off the bark in the process.

THE PROBLEM

After a site inspection and a hydraulic analysis of the system we came to the conclusion that the existing submersible pump gave too many problems, on the site of Metsä all the spray water is collected in a large sump, in fact it is a closed circulation system. However, if

the tree trunks are wet they loose also parts of the bark which goes back into the sump, where the submersible pump is installed. This pump can't handle these large chunks and gives continuous problems like blockages. Enough reason for the end user to look for a solution.

THE SOLUTION

Installing a Gorman-Rupp VS3A60 pump with a vertical V-belt drive, the pump operates 24 hour/day and has been in operation since 2017 without any problem. Once a year in spring the Gorman-Rupp distributor performs routine maintenance on the pump like oil change, adjusting the impeller clearance and an overall inspection.

