



Paper Mill Felt Rolls

Concern: Customer uses felt rolls with bearing housings that may be mounted upright or inverted. The oil ports in the bearing housings must be configured differently for each housing position to maintain proper oil flow. Due to the different configurations of the bearing housings, the customer was not able to maintain inventory of the rolls fully assembled with the bearings and bearing housings.

Request: To maintain a similar roll design and to develop new universal design bearing housings that would allow the customer to mount in either position; thus, allowing the customer to maintain an inventory of rolls with bearings and bearing housings assembled.

Solution: PFE Rolls develops a roll design and new bearing housing design that will allow customer to install the rolls in either position, with the bearing housings in the upright or inverted position. Rolls were shipped completely assembled with bearings mounted to the roll and installed in the new design bearing housings -- ready for the customer to install.

Benefit: The customer did not have to change or modify any of the existing machinery, framework or bearing lubrication hoses. Roll change time has been decreased (by approximately 1-½ hours per roll) by maintaining an inventory of rolls fully assembled with bearings and housings – ready for installation. Present inventory levels are decreased due to the customer requiring only one type of bearing housing.