PULP AND PAPER INDUSTRY

Coatings in the Pulp and Paper Industry are mainly used in the prevention of premature wear provoked by rubbing, corrosion, abrasion, etc. These coatings offer an added value by increasing the lifetime of parts and by reducing the number of production shutdowns necessary for the reparation and replacement of used parts. These applications have seen a lot of success in systems as varied as the following :

Shaft sleeves with different coatings.

PUMPS

- Sleeves
- Casings
- Housings
- Rotors of progressive cavity pumps
- Pump shafts
- Vacuum pump shafts

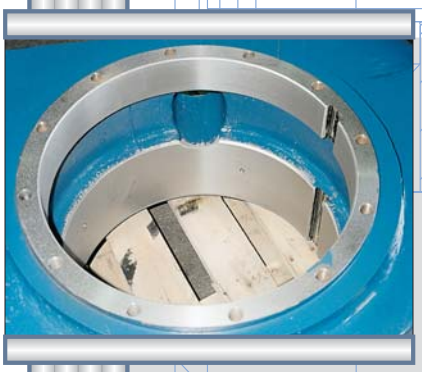
REFINERS

- Rotors and stators
- Packing stuffing boxes
- Pedestals
- Refiner shafts
- Sealing rings
- Sleeves
- Babbitt bearings

Repair of a mechanical seal on a refiner shaft.

BARK and CHIP LINES

- Chip feeders
- Bark line elbows
- Rotary valves
- Plug screws
- Plug screw shafts
- Bearing housing for plug screw shafts
- Bark screw conveyors
- Bark stockers



Repair of the interior of a refiner pedestal.

SCREENS

- Casings and housings
- Rotors
- Baskets
- Sleeves
- Bearing column assembly
- Shafts

Application of a tungsten carbide coating on a screen rotor.

A rebuilt babbitt bearing.

Installation of "Tuffstuds" in a debarking drum.

And OTHERS

- Palet guides
- Gate valves
- Windboxes
- Piston rods
- Magna cleaners
- Bearing housing for calander rolls
- Debarking drums
- Speed up rolls
- Press pistons
- etc.

REBUILDING of WORN PARTS

Coatings are widely used in the Pulp and Paper Industry for rebuilding parts, including the reconditioning of shafts and the reclaiming of all sorts of babbitt bearings.

NUMERICAL ANALYSIS

These computer tools are mainly used by METAL 7's R&D Department for their own test purposes. However, they are also used when we undertake projects for our clients. These projects are mainly comprised of gas flow studies, calculations of heat transfer, as well as evaluations of mechanical constraints on parts. Numerical analysis offers many interesting opportunities to the Pulp and Paper Industry and provides savings in time and money.

MACHINING

METAL 7 also produces many parts for the Pulp and Paper Industry in its workshop, from the smallest precision piece to the most massive equipment.

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