

RELIABILITY

The CLOVE-ROTOR Pump is built to rugged Ingersoll-Rand standards. Oversize shafts and bearings assure a high degree of reliability. Sealing of the main rotor to the housing periphery isolates the packing from the high discharge pressure zone permitting all packing boxes to operate at the low infeed pressure. Open access to packing boxes makes repacking easy. Relative motion between pulp fiber and rotor cavities is practically non-existent assuring minimal rotor wear. Excellent tramp-metal handling characteristics have been demonstrated by the CLOVE-ROTOR Pump. Access to the pumping element for inspection and cleanout is easily effected by removal of the housing cover. CLOVE-ROTOR petals (scraper disc twin petals) are readily removable and replaceable through this same access opening. The pump main housing has a replaceable sealing strip which is changed to restore operating clearances.

COMPACTNESS

The pump and feeder are integral, reducing floor space required. The foundation consists of a simple footing extended to support a motor on a conventional slide base.

BACKSTOP ASSEMBLY

As reverse flow may occur if the pump is stopped with positive pressure on the discharge side, the pump must be equipped with a backstop.

TORQUE DISCONNECT DEVICE AND ZERO SPEED SWITCH

The torque disconnect device and zero speed switch protect the pump and feeder if foreign objects enter the pump and cause a jam. The torque disconnect device couples the pump rotor shaft to the pump drive and can be used with either a left or right hand drive. Immediate uncoupling occurs if the torque device disconnects. The zero speed switch is mounted on the bevel gear case and is coupled mechanically to the feeder rotor. If the pump becomes jammed causing the feeder rotor to stop, the zero speed switch will stop all interlocked equipment or sound an alarm.

INGERSOLL-RAND ENGINEERING ASSISTANCE

Individual analysis of each proposed application is made by Ingersoll-Rand's engineering staff to insure that piping and pump selection complement one another.