



NAK Kiln Services

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DESCRIPTION OF SERVICES

NAK provides the most cost effective rotary equipment repairs in the industry. The procedures we employ, developed in large part by NAK Rotary equipment Services, make use of the latest advances in rotary rotary equipment maintenance technology. Our rotary equipment repair activities are broken down as follows:

1. **Rotary Equipment Alignment:** We provide the most accurate and complete rotary equipment alignment in the industry. Our procedure consists of optimizing shell ovality, without exceeding acceptable bearing pressures or hertz pressures. We locate the rotary equipment axis coordinates using computerized laser theodolite procedures. In addition to aligning the rotary equipment axis, we adjust all support rollers for the proper thrust loads. NAK is the only company that includes all necessary support roller adjustments as part of the rotary equipment alignment scope of work. We use high capacity torque wrenches, with which we can make bearing adjustments with both speed and accuracy. Because of the efficiency of our experienced crews the cost of our alignments is the lowest in the industry for the given work scope. Our alignment procedures do not require rotary equipment downtime.
2. **Tire and Roller Resurfacing:** We have state of the art grinding equipment to resurface tires and support rollers to OEM tolerances. We have been active in several seminars and have published numerous articles related to tire grinding. As part of our grinding service we measure the shell ovalities, thoroughly inspect the balance of the rotary equipment and make roller adjustments to correct rotary equipment misalignment caused by the decreases in the tire and roller radiuses. As is the case with our alignments, the grinding procedures do not require rotary equipment downtime. All measurements and repairs are done with the rotary equipment in full operation and a "no fine print" guaranteed price.
3. **Rotary Equipment Preventive Maintenance Service:** Every four months we provide two technicians and all equipment necessary to inspect the rotary equipment, measure the shell ovality on all piers, adjust all support rollers to minimize thrust loads, and make repair recommendations. Our written report includes trending of variables critical to rotary equipment operations, like shell ovality and tire clearances. This cost effective preventive maintenance concept significantly improves rotary equipment run time and productivity and makes an excellent plant training opportunity.
4. **Major Rotary Equipment Repairs:** We provide parts and labor for shell section replacement, gear reversals, rotary equipment seals, support base replacement and tire support pad replacement. All work is done to OEM standards or better.
5. **Replacement Parts:** NAK is active in the aftermarket for rotary equipment replacement parts. We have supplied new tires, support rollers, thrust rollers, gears, shell sections and bearing for all makes of rotary equipment. Our parts are fabricated to OEM specifications or better. Using our fabrication capabilities rotary equipment users can save about 30% of the cost of parts obtained from rotary equipment manufacturers.