

ROLLING MILL DRIVE SPINDLES

Maintenance Services

Using our extensive experience maintaining steel-producing equipment—from lances to cold mill equipment—SMS group expertly maintains patented SIEFLEX® Oil-Lubricated Gear-Type Spindles manufactured by SMS group as well as spindles from other manufacturers. Our maintenance services can keep mill spindles, regardless of the manufacturer, operating in peak condition while minimizing maintenance costs.

In addition to providing scheduled periodic maintenance, SMS group also provides emergency break-down service and modifications designed to upgrade existing designs, improve spindle reliability and lower operating costs.

Performance-driven maintenance

As part of our detailed maintenance procedures, incoming spindles are numbered and carefully inspected. Exterior wear and damage is thoroughly documented. Spindles are then disassembled using a meticulous procedure, and parts are visually examined, dimensionally checked and tested using non-destructive methods. The resulting repair report notes operational process damage so that processes can be modified or spindle designs upgraded to improve campaign life. We also keep a detailed history



▲ Patented SIEFLEX® Oil-Lubricated Tube Spindles have reduced maintenance costs

of each spindle to help identify operational and design issues and improve overall spindle reliability.

After disassembly, parts are re-used, repaired or replaced based on specific guidelines and cost and reliability considerations. Precision machining and assembly work help ensure that spindles we have maintained consistently achieve top performance. To insure fast turnaround, we can identify long-lead-time and critical wear parts and provide a spare parts stocking program. Scrupulous reassembly and checking help insure spindles return to your mill in like-new condition.



▲ Spindles are carefully disassembled following stringent procedures

Customer-driven field services

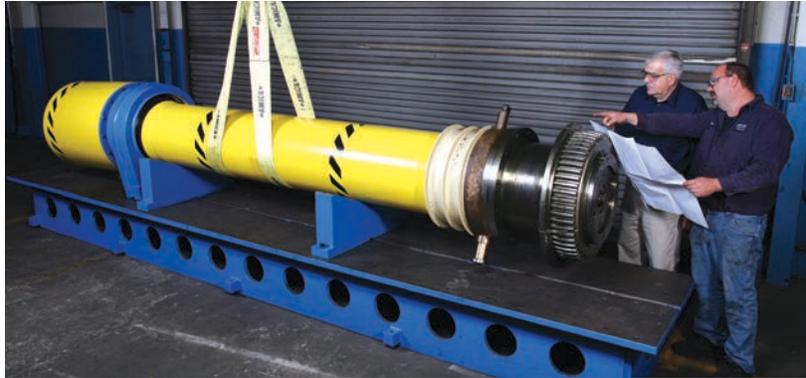
Working out of our field service centers, our experienced technicians can conduct a detailed analysis of your operating and maintenance conditions and develop lubrication and rotational recommendations to improve performance, extend spindle life and reduce downtime. We also provide field assistance for upgrade and enhancement recommendations to optimize your spindles' life.

Authorized maintenance for SMS group SIEFLEX® Spindles

Because SMS group is the sole authorized service provider for SMS group equipment in North America, we have full and open access to all OEM drawings and SMS group engineers and can ensure that repairs are in full accordance with original specifications. To ensure that SIEFLEX® Spindles keep operating like new, key SMS group technicians have been trained by SMS group engineers in Germany. SMS group engineers also participated in the development of our repair facilities and provided extensive training for our technicians in the US.

Engineering support

With several SMS group engineers dedicated to drive and drive components, we can successfully address design and operational issues that affect spindle performance and provide solutions for cost-effective



▲ Spindles are carefully checked to insure they return to the mill in like- or better-than-new condition



▲ Our SIEFLEX Spindle technicians have been trained by SMS group engineers to ensure repairs meet OEM specifications

operation.

To learn more about how SMS group's performance-driven spindle maintenance services can help reduce maintenance costs and improve spindle reliability for SIEFLEX Spindles and spindles from other manufacturers, give us a call at +1-412-231-1200.



▲ Expert maintenance improves spindle reliability