

SPARE PARTS

Improve Performance, Reduce Downtime

Using its wealth of experience designing and building metallurgical plants throughout the world, SMS group can supply spare and replacement parts for a vast array of metals-making and rolling mill equipment. Manufactured to our stringent quality standards, spare and replacement parts from SMS group exactly match OEM prints and/or specifications.

Our spare and replacement parts not only keep your plant operating at peak capacity and minimize downtime, they also incorporate the latest technical improvements with upgrades that can enhance your equipment's performance and extend its service life. Our experienced technical support staff can find innovative ways to integrate equipment developments into existing plants.

Legacy—respected and supported

SMS group has a long and distinguished history designing and building metals-producing plants and equipment. During its existence, it has acquired many respected companies, for example, Mannesmann, Concast, MAN-GHH and Demag, and regardless of the age of a piece of equipment, we feel a strong sense of responsibility to continue to service and support all

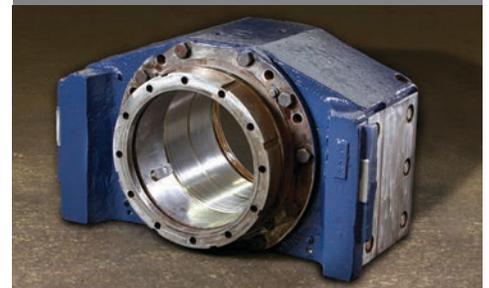


of the equipment from all of the companies that have become part of SMS group.

Precision

To ensure that parts can be quickly identified and exactly matched, SMS group maintains a vast library of drawings and documentation for all the parts and all of the components that have gone into in every plant we ever built—regardless of age. Our library of part and component information also allows us to determine if valuable modifications have been made that will improve performance. This equipment information allows us to exactly match parts and

▲ Our parts precisely match OEM specifications and meet stringent quality standards ▼



▲ We incorporate the latest technical improvements into our parts



▲ We can inventory long-lead-time parts and components

components so they install easily, perform like new or better-than-new and last as long or longer than the part they are replacing.

World-wide network in your back yard

SMS group has a large network of service centers in the US that can access all of the resources of SMS group. Our team of technicians are likely to be familiar with your equipment and can work with you to ensure you get exactly the parts and components you need. Our parts team is also dedicated to providing responsive service so you get parts fast and downtime is minimized. More than just parts, they can also help you get the help you need to diagnose problems and find solutions to equipment issues. Plus we also offer programs to inventory long-lead-time parts and components.

Some of the parts we can provide for iron and steel making are:

- Furnace tops
- Throat armors
- Expansion bellows
- Contact pads, electrode arms
- High current bus tubes and flexible conductors
- Contact jaws
- Insulating parts
- Water-cooled wall and roof panels
- Converter suspensions
- Oxygen lances and sub lance systems
- Filter hoses
- Venturi throats
- Centrifugal blowers
- Cellular wheel sluices
- Strand guide segments
- Complete molds, mold plates and mold pipes
- Continuous caster rolls
- Spray headers and nozzles
- Complete drives, motors, gear units, bearings, couplings and pumps
- Hydraulic cylinders
- Valves and fittings
- Expansion joints, hoses
- Crane systems and equipment

Some of the parts we can provide for rolling mills are:

- Pendulum, drum and crank shears and parts
- Backup roll and work roll chocks
- Roll gap adjustment and low-friction cylinders
- Screw-down spindles and nuts
- Position transducers
- Main and pinion gears and gear parts
- Drive spindles and parts
- Spindle lubrication pumps
- Crowned tooth couplings
- Work roll bending and shifting blocks (CVC)
- Leveling, wrapper and pinch rolls
- Down coiler and reel mandrels and parts
- Oil supply rotostats and seals
- Rotating oil feeding devices
- Guides and guards
- Pumps, valves and spray headers
- Hydraulic and greasing systems
- Filters, filter cartridges and components
- Self-lubricating carbon fiber liners and bushings