Siemens VAI Manufacturing
High quality components for the steel industry
Siemens VAI is a leading international supplier of steel production facilities. Based on an extensive supply experience, the company’s portfolio also includes the manufacture of a broad range of components and assemblies for continuous casters, flat-product rolling mills, long-product rolling mills, finishing lines, process lines and other auxiliary equipment. Our expertise enables us to provide highest-quality customized products, innovative solutions and efficient services with local resources. We execute projects efficiently to ensure that the supplied equipment meets the most stringent project requirements and that interruptions to ongoing production operations are minimized. Customers can count on our loyalty to delivery deadlines for each supply and assembly project. Siemens VAI operates two manufacturing facilities in China, one in Minhang and the other in Taicang.

Our mission:

- Professional supply of steel-production equipment
- Customization expertise that meets individual customer specifications
- High-quality manufacture and assembly of steel-production equipment
- Company commitment to fully meet customer expectations
Manufacturing focus

Minhang:
- Equipment for flat-product rolling mills
- Morgoil bearings
- Caster rollers
- Clamping cylinders
- Caster segments
- HAGC (hydraulic automatic gauge control) cylinders
- Equipment for long-product rolling mills
- Long rolling guides
- Equipment for finishing and processing lines
- Other precision machining and assembly activities

Taicang:
- Offline caster maintenance
- Roller refurbishment
- Assembly of caster segments
- Assembly of components for long-product rolling mills
- Assembly of steelmaking equipment
- Other assembly and piping
Products manufactured by specialists

Procurement of materials
Materials are purchased from carefully selected local suppliers to ensure a fast and efficient supply chain. Key parts are quality-assured directly at the supplier site before they are delivered to our manufacturing facilities. The suppliers are evaluated on a regular basis by an expert quality-assurance group that employs state-of-the-art inspection methods. This ensures that all parts meet the required specifications. Quality-assurance documentation and reports are verified and archived according to established procedures.

Welding
All welded parts are produced in accordance with firmly established sequence plans and procedures to assure consistent quality-assured products. The broad experience and considerable know-how of our welding experts is decisive for the manufacture of welded products of the highest quality.

Machining
State-of-the-art CNC machines, cutting tools and CAM-generated CNC programs are used in the production facilities to manufacture high-precision components. The components are carefully inspected by certified CNC operators to guarantee the highest level of quality. Machined components are finally inspected in accordance with established inspection specifications.

Assembly
Consistent product assembly procedures are employed at the company production facilities. Special equipment is used by skilled operators to ensure efficient assembly processes. With the installed technologies, such as laser trackers, precise measurements can be performed for accurate component alignment. Each component is inspected in accordance with detailed inspection and testing specifications.
Testing
The company production facilities are equipped with lubrication, hydraulic, and automation systems that allow for a full range of running tests to be conducted. Finished assemblies are tested according to clearly defined protocols which may include pressure testing, flow testing, vibration testing, dynamic response testing, and fully automatic cycle testing. Any necessary additional calibrations can also be set.

Shipping
The products are stored in accordance with customer specifications and packaged for protection during transportation. Special corrosion-protection and shipping measures are taken to prevent product damage. Customers can decide if they would like to have their components protected with special surface lubrication or if special surface coatings should be applied, such as color coatings or long-life corrosion protection, etc. Packaging materials are of the highest quality, and the logistics processes are particularly efficient.

Spare and wear parts
Operational uptime is a key point for success, it is therefore of utmost importance that stringent manufacturing standards are applied to ensure the highest reliability and long service life of customers production equipment. The global organization, state-of-the-art workshops, engineering know-how, experience in manufacturing operations and maintenance expertise means that Siemens VAI is the reliable partner for your specific requirements. Genuine Siemens VAI spare parts, assemblies, and electrical components contribute to maximum production reliability. The global logistics experience of Siemens VAI is the basis for the most rapid transport directly to customer plants.
Refurbishment and rebuilding services
In addition to manufacturing new equipment our facilities also provide refurbishment and rebuilding services. The refurbishment expertise of Siemens VAI is a major customer benefit. We have considerable experience in determining which components can be reused and what additional improvements can be implemented to prolong the service life of the equipment and improve reliability in future operations. We apply proprietary material treatment processes, clearly defined welding processes and utilize a Siemens VAI-patented welding wire for specific overlay welding techniques. As the original equipment manufacturer we are able to rebuild the equipment to the original design specifications and standards. We apply our accumulated knowledge and latest practices to older equipment so the customer can enjoy the benefit of our continuous improvement efforts.

Our process
Incoming inspection
A dedicated service engineer will review the equipment “as received” in our facility to identify the required inspections and component testing required. The equipment is then completely disassembled, and prepared for evaluation.

Inspection and non-destructive testing
A complete mechanical inspection and non-destructive test is performed on every critical component.

Detailed report noting our findings
As part of our evaluation of your equipment, our engineers often provide recommendations to improve the performance and capability as well as identifying areas of improvement in the customers maintenance practices.

Manufacturing and repair
The mechanical components are repaired or replaced as defined in the technical report.

Assembly and test
Whether a final operational test is conducted depends on the type of the equipment.
Quality products and services

We are committed to providing high-quality products and services that conform to the unique requirements of each customer. This quality management system is based on the stringent guidelines of International Quality Standard ISO9001. This commitment to the ISO quality management process guarantees that Siemens VAI will continue to be a world-leading designer and manufacturer of products for each market served. The products are produced according to the highest standards in the metallurgical equipment industry.

The quality-assurance teams in various company departments are comprised of highly experienced inspectors and experts. Our quality-assurance strategy ensures supplier-quality performance from the very onset of each project and focuses on the specified technical requirements, inspection schedules, project management and project implementation monitoring. Company employees make every effort to continually improve the quality of products and services and to immediately respond to every customer request. Each employee is trained and re-trained in his or her specific responsibilities within the organization. Process audits are conducted on a regular basis and the results are fed back to the organization in order to keep a finely honed focus on meeting specific customer requirements and expectations. Siemens VAI has invested heavily in modern, highly accurate measuring instruments to aid manufacturing with the goal of achieving zero defects. Tolerances are extremely tight in order to meet the engineering requirements necessary to achieve state-of-the-art operating parameters.

- Coordinate-measuring machines are employed to make sure that all positional machining features meet the stipulated engineering requirements
- Computerized inspection tools measure roundness, cylindricity, and concentricity with resolutions of up to microns
- Use of computer aided height gauges and granite surface plates to support quality assurance in targeted processes
The information provided in this brochure contains merely general descriptions or characteristics of performance which in actual case of use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.

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