





HENAN SINOVO MACHINERY ENGINEERING CO., LTD

To Achieve World Grade Quality

SIMEC Fabrication Mill





Partial List of Advance Machines for Precision Fabrication in SIMEC mill

Photos		
Names	Laser Cutting Machine	Welding Robot
Functions	<p>Cutting precision within 0.1 mm. The roughness of the cutting surface can reach 6.3. Maximum cutting thickness 25mm. Processing size: width 2.2m, length 6m Positioning accuracy: $\pm 0.03\text{mm} / \text{m}$ Repeated positioning accuracy: $\pm 0.02\text{mm}$.</p>	<p>Welding of fitted parts in the station according to programming; Five axis</p>
Photos		
Names	Gantry Machining Centre (5 sides)	Gantry Planer
Functions	<p>Milling, drilling and boring. Fabrication precision is 0.01mm. Machining size: width 2m, length 4m.</p>	<p>Mainly planing the large plane and ensure the flatness. Processing size: width 2m, length 4m.</p>

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		Spindle speed: 10 ~ 2000rpm		
Photos				
	Names		<p>Gantry Milling Machine</p> <p>Vertical Machining Centre</p>	
Functions	<p>Machining planes and grooves. Processing size: width 1.8m, length 3m. Table speed: 30 ~ 300mm / min (stepless frequency conversion) Lateral feed speed of milling head: 50 ~ 1000mm / min (stepless frequency conversion) Lifting speed of side milling head: 30 ~ 500mm / min (stepless frequency conversion)</p>		<p>Positioning and machining of holes, slots and threaded holes after the workpiece is clamped. 3 sides, with angle. Processing size: 0.8m x 1m</p>	
	Photos			
Names		<p>CNC Bending Machine 600 T</p> <p>CNC Bending Machine 160 T</p>		
Functions	<p>Bending thickness 25mm Maximum processing width 6m Working table width: 300mm Working speed: 8mm / s</p>		<p>Bending thickness 25mm Maximum processing width 4m</p>	

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	Return speed: 75mm / s Throat depth: 400mm Maximum opening height of work surface and slider: 400mm	
Photos		
Names	CNC Lathe	CNC Radial Drilling Machine
Functions	Processing accuracy: IT6 ~ IT7 Roughness: Ra0.8	
Photos		
Names	Axial Balancing Machine	Vertical Balancing Machine
Functions	Dynamic balancing Maximum weight 500 kg, Range of measurement within 10g, Maximum axial length 2500 mm.	Dynamic balance test of round workpiece Maximum workpiece diameter: 100mm Maximum workpiece external diameter: 510mm with cover, 800mm without cover Workpiece height: 160mm Mainshaft speed: 640 r/min Motor Power: 2.2 kW Imbalance of minimum achievable residual 0.5 gmm/kg

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<p>Photos</p>		
<p>Names</p>	<p>Ring Die Deep Hole Drilling Machine</p>	<p>Vacuum Heat Treatment Furnaces</p>
<p>Functions</p>	<p>Designed to process stainless steel ring die with inner diameter up to 1200mm. Drilling diameter range: $\phi 1-5\text{mm}$ / $\phi 3-16\text{mm}$ Number of spindles: 4/8 Spindle speed: Max 15000 rpm Spindle feed speed: 30 ~ 300 mm / min</p>	<p>Effective heating zone size (diameter x height): $\phi 1100 \times 1200$ Loading capacity: 800 kg Heating power: 200 kW Maximum temperature: 1100 °C Ultimate vacuum degree: $4 \times 10^{-1} / 5 \times 10^{-3} / 8 \times 10^{-4} / 5 \times 10^{-4}$ Pa Furnace temperature uniformity: $\leq \pm 5$ °C Pressure rise rate: ≤ 0.5 Pa / h</p>
<p>Photos</p>		
<p>Names</p>	<p>Five-sided Gantry Machining Center</p>	<p>Five-sided Gantry Machining Center</p>
<p>Functions</p>	<p>Milling, drilling and boring. Maximum machinable workpiece size: width 4m, length 12m, height 1.5m. Fabrication precision is 0.01mm. Spindle speed: 10 ~ 2000rpm Workbench bearing: 20 T/M2</p>	<p>One-time positioning to complete the processing of five working surfaces. Workbench size: 12m x 4m. Overall dimension: 23x10x8 m. Total weight: 160 tons.</p>

<p>Photos</p>		
<p>Names</p>	<p style="text-align: center;">Shot Blasting Machine</p>	<p style="text-align: center;">Acid Washing Workshop</p>
<p>Functions</p>	<p>Suitable for sand removal, rust removal, descaling and surface strengthening of castings, forgings, stamping parts, heat-treated parts, welded parts and other workpieces;</p>	<p>Acid washing is a process for cleaning metal surfaces. Acid solution is used to remove oxide scale and rust on the surface of steel, and remove black skin and inclusions at welds. After washing, the metal surface becomes silvery white, and at the same time, the surface is passivated to improve the corrosion resistance of stainless steel.</p>
<p>Photos</p>		
<p>Names</p>	<p style="text-align: center;">Automatic Painting Line</p>	<p style="text-align: center;">Automatic Painting Line</p>
<p>Functions</p>	<p>Fully digital operation, PLC program memory to store various painting parameters, humanized graphic display interface. High accuracy of operation.</p>	<p>The automatic spraying assembly line has fast production efficiency and can work uninterrupted for 24 hours. Accurate coating accuracy, uniform paint, smooth surface.</p>

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<p>Photos</p>	
<p>Names</p>	<p style="text-align: center;">Automatic Submerged Arc Welding Machine</p>
<p>Functions</p>	<p>Cylinder welding adopts automatic submerged arc welding machine, model: CZ6X7, vertical lifting 6000mm, horizontal telescopic 7000mm, beautiful weld, stable quality.</p>
<p>Photos</p>	
<p>Names</p>	<p style="text-align: center;">Double-Column Vertical Lathe</p>
<p>Functions</p>	<p>The seat of drum ring is processed by a double-column vertical lathe, model: DVT800X40/125, the maximum turning diameter is 8000 mm, high processing accuracy ensures the assemble quality of rotary drum dryer or rotary kiln reactor.</p>
<p>Photos</p>	
<p>Names</p>	<p style="text-align: center;">Cylinder Processing Lathe</p>
<p>Functions</p>	<p>The rotary kiln reactor is processed by professional cylinder processing lathe, with a maximum processing diameter of $\Phi 4.6\text{m}$ and a maximum processing length of 20 meters. The axial machining accuracy of the cylinder is 0.1 mm, and the roundness precision of the diameter of the cylinder is 1 mm.</p>