



# MIBO INTERNATIONAL CORP.

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## Mibo Technologies Application Archives

NO: FSLDA—0008

<b>Equipment information</b>	<b>Industry</b>	Steel company
	<b>Repair Parts</b>	Air compressor impeller material deposition (wall)
	<b>Problem Described</b>	Steel company has a lot of fans, and those fans are high value equipments. Due to the different operation environments, the causes of fan impeller damage are different. The sintering plant turbines usually will reach a high temperature up to 200°C or even higher, which cause the material wear seriously. The gas pipeline impeller operating at about 80°C, which cause gas corrosion and dust deposition to the impeller. The dust blower operating at about 100°C, which cause dust deposition and surface pitting. Company regularly need to cleaning the material deposit, it's time consuming and require labor cost. In addition, the impeller regularly need balancing, therefore, a spare impeller is required.
	<b>Operation Environment</b>	<p><b>Impeller Size:</b> impeller diameter is 1100 mm, blade width is 55~80 mm, length is 350 mm, number of blade is 20</p> <p><b>Operating Temperature:</b> 60~70°C</p> <p><b>Flowing Media:</b> LDG (The gas is come from steel making, has high content of carbon monoxide, then through a wet dust removal process, has a certain degree of humidity)</p> <p><b>Work Flow:</b> 180 m<sup>3</sup>/min</p> <p><b>Device Speed:</b> 2976 rpm (other devices can reach 5000 rpm or higher)</p> <p><b>Parts Material:</b> Carbon steel</p> <p><b>Life Cycle:</b> the material deposit accumulate seriously in the impeller and surface. The uneven deposit on the surface usually cause the device working irregularly. The company need to shut down the device and disassemble the impeller, then cleaning the deposit with high-pressure water. It is time consuming and require labor cost.</p> <p><b>Company Requirements:</b> reduce the deposit in the impeller pipeline and surface, extend the equipment life cycle, at least six months.</p>



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<p><b>Equipment Pictures</b></p>		
<p><b>Technical Requirements</b></p>	<p><b>Seeking for products and solutions to solve the aforementioned equipment problems:</b></p> <p><b>Requirements:</b></p> <ol style="list-style-type: none"><li>1、 Provide technical information of the products and solutions to solve these type of problems</li><li>2、 Provide detail technical operating processes and precautions</li><li>3、 Provide products' price list</li><li>4、 Meet the requirement of at least six months life cycle</li></ol> <p><b>Questions:</b></p> <ol style="list-style-type: none"><li>5、 How is the product's properties of surface polarity and adhesive, how to ensure adhesive?</li><li>6、 Is the material can be achieved spraying? What equipment need to use for spraying?</li></ol>	