



## Mibo Technologies Application Archives

NO: FSLDA—0006

Categories	Fan impeller
Industry	Cement
Part Name/Model	Centrifugal fan, main function is remove dust. Model number is 2380-DI-33-50 <b>Impeller wear is mainly due to the cement dust abrasion</b>
Component Material	Fan impeller made of 16 Manganese (Mn)
Operation Environment	At normal temperature, total pressure is 7500 Pa, flow is 310000 m <sup>3</sup> /h, motor power is 1000 KW, speed is 1200 r/min. Medium is mainly cement dust during processing. If using general steel, it will only last for 6 to 7 weeks to worn through the impeller. Now change to using 16 manganese steel. The leaf blade diameter is 2.4 meters, double blade tip-end is 220 mm wide, back-end is 400 mm, high is 710 mm, number of blades is 11x2
General lifetime	The new impeller wear appeared after using for one month. Using welding methods can extend the usage lifetime to 3~4 months.
User Requirements	Improve wear resistance, extend the equipment life cycle.
Mibo Requirements	Meet the wear resistance requirement, extend the equipment lifetime.

Site pictures:



Worn scrapped fan impeller



Fan awaiting for repaired