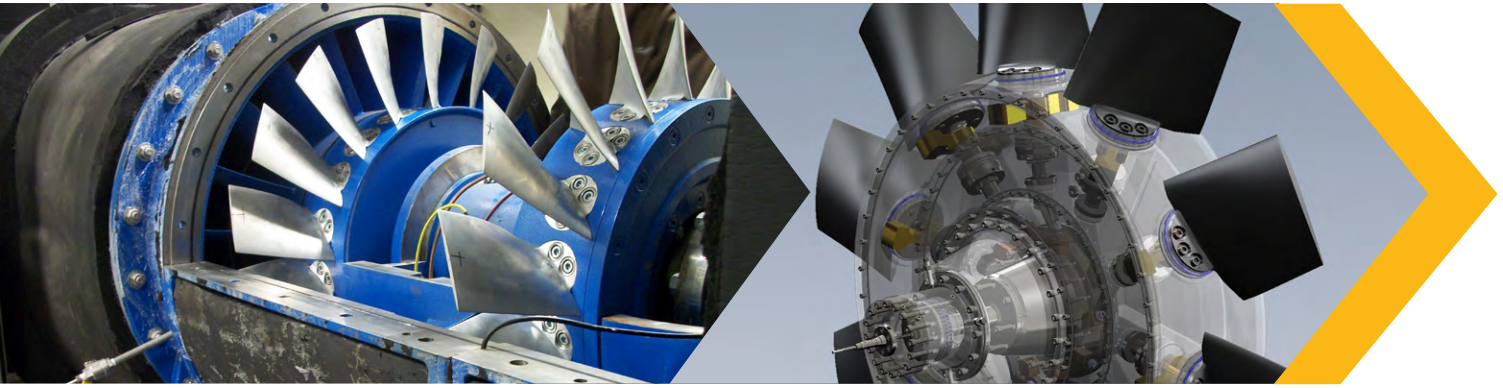


REPLACEMENT BLADES



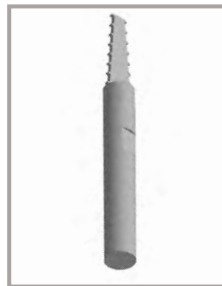
PROJECT OVERVIEW

Clarage recently replaced the blades for a fan installed at a Major Steel Plant in Europe.

- Fan was 3.75M (148 in.) diameter in-flight adjustable, handling 1,000,000 ACFM at 10 in. TP with a 2,500 HP motor at 750 RPM
- Blades are cast aluminum with a steel shaft insert
- Blades were in very poor shape (see photo) and required recreating the original blade profile and x-rays to determine the shape of the steel insert to ensure proper bonding during casting. Extensive quality control ensured a like new blade replacement.



X-RAY OF HOLDING PATTERN (OLD SHAFT)



3D MODEL (REPLACEMENT SHAFT)



CASTING MOLD FOR REPLACEMENT BLADE



CAST REPLACEMENT BLADE



BEFORE



AFTER

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