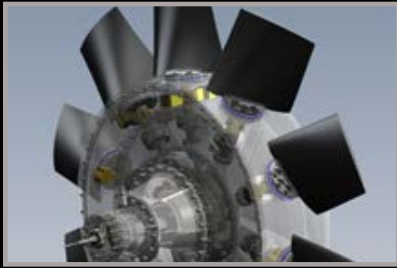


REPLACEMENT BLADES



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 an as new blade replacement.



BEFORE



**X-RAY OF HOLDING PATTERN
(OLD SHAFT)**



**3D MODEL
(REPLACEMENT SHAFT)**



**CASTING MOLD FOR
REPLACEMENT BLADE**



**CAST
REPLACEMENT BLADE**



AFTER