

# IPM Performs Emergency Yankee Dryer Bearing Journal Repair



## About In-Place Machining Company

*In-Place Machining Company designs and develops specialized machine tool systems, and provides precision on-site machining and measurement services to a wide range of industries including Pulp & Paper Manufacturing, Steel & Aluminum Production, Nuclear, Fossil, Hydro and Wind Power Generation, Marine, Petro-chemical, Infrastructure, Mining, General Manufacturing, and Scientific and Military customers. With over 100 employees in multiple locations around the USA, and perhaps the largest inventory of dedicated on-site machining systems in the country, In-Place Machining Company is ready to serve you In-Place... Any Place In The World.*



## In-Place Machining Company services the Pulp and Paper Industry

In-Place Machining Company once again demonstrated technical excellence and a commitment to service with a recent **Yankee Dryer bearing tapered journal repair** at a Michigan paper mill. The customer contacted IPM after discovering a bearing failure in one of their 18' diameter Yankee Dryers had caused deep scoring of the tapered journal, thus rendering the machine inoperable.

IPM engineers, technicians and project managers immediately began technical and logistical planning and equipment mobilization. With its vast inventory of equipment and decades of experience, IPM was able to quickly identify and gather a range of on-site technologies needed to restore the journal's precision taper, including precision measurement, crack detection, pre-machining without rotating the Dryer, thermal spray material



*Yankee Dryer Bearing Tapered Journal Refurbishment*

build-up, and precision finish-machining & grinding. As an added twist, IPM had repaired the same journal in 1982 using earlier versions of the Company's **bearing journal machining** and portable thermal spray equipment.

**On-Site Journal Repair**— Once on site IPM technicians worked around the clock restoring the Yankee Dryer bearing journal. They first inspected the journal, then



*Before Repair: Deep Scoring of the Tapered Bearing Journal*



*Portable Thermal Spray Process*

mounted and aligned an IPM developed machine tool system that allows for **high accuracy single point turning without rotating the Dryer**. The bearing journal machining continued until all damage was removed, including the metal spray that IPM applied almost 40 years earlier.

IPM's high capacity drive system was then installed and used to rotate the Yankee Dryer during the **portable thermal spray** process, which was required to restore the journal to its OEM condition. IPM then completed all required journal machining & grinding, achieving final dimensions, surface finish and overall geometry that met or exceeded OEM specifications.



*Journal Finished to OEM Specifications*

**Expert Field Machining & Portable Thermal Spray for Emergency Repair and Planned Maintenance**— The next time your Yankee Dryer or other paper mill equipment needs **repair, maintenance, or refurbishment**, Call In-Place Machining at 414.562.2000 to get you back on-line quickly and economically. [Visit the IPM Website News Page](#) for more In-Place Machining Company case studies, the latest news, and more.

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