

# Precision Gearbox Casing Repairs— On-Site Machining Done Right



## About In-Place Machining Company

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



## Three Segment Gearbox Housing Refurbished by IPM On-Site

Customers in a wide range of industries have contacted In-Place Machining Company to restore their gearbox bores. We have the equipment and expertise to bring your gearbox back to OEM specifications.



*Gearbox Casing On-Site Machining*

**Gearbox Casing Repairs**— One of IPM's most recent gearbox casing repairs demonstrates our superior **on-site machining** services. In this 3-segment gearbox, the 3 central bores had been severely wallowed out and the welds securing the saddles to the gearbox housing had cracked.



*Setup for On-Site Line Boring*

**On-Site Machining Restores Gearbox Back to OEM Condition**— The customer contacted IPM uncertain that the gearbox was salvageable. Our engineers and **on-site machining** technicians reviewed the failure and determined that the gearbox could be restored through a combination of **on-site welding** and **line boring** services. Once welding was completed and the temperature returned to ambient we we installed precision line boring equipment in the bores to be machined.



*On-Site Line Boring Machining In Progress*

Additional measurements were taken to confirm correct line spacing. Optics and mechanical measurements were used to ensure that proper geometry and gear mesh would be provided before **on-site machining**.

**On-Site Line Boring Services**— Each of the bearing saddles was then able to be precisely bored, counterbored and faced back into OEM specifications.



*Rejuvenated Gearbox Bores*

The next time you have a difficult repair or are uncertain that your equipment can be salvaged, please **Contact IPM** or **Call Us any time at 414.562.2000**.

QUALITY MACHINING  
IN-PLACE... ANY PLACE  
IN THE WORLD