

DIESEL ENGINE SERVICE

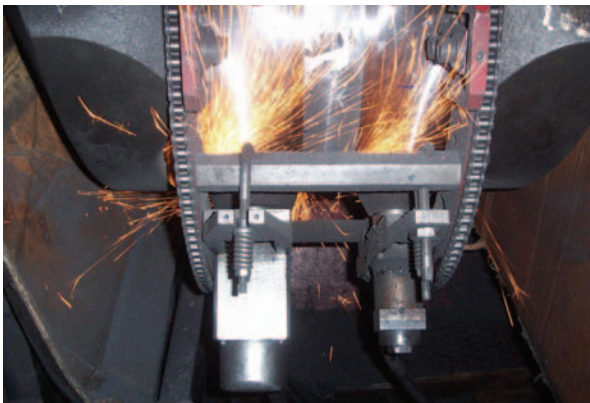
INSITU CRANKSHAFT REPAIRS

ABC technicians have 3 decades of experience of hands on grinding repairs on engines such as Pielstick, Wartsila, MAN, Mak, Mirrlees, B&W, GMT, Sulzer - the list goes on.

A full repair is carried out and nothing is overlooked. Our technicians carry out checks for surface and sub-surface heat left cracks using Magnetic Particle Inspection methods.

Hardness checks are obtained by portable hand held electronic hardness testers. Connecting rods are calibrated for geometrical sizes and tested for hardness and cracks. The crankshaft is inspected for concentricity and parallelism.

Our specialty is the cold straightening of a bent crankshaft and returning it the Engine Makers' Specifications. Our repairs are authorized and approved by all Classification Societies.



Insitu Grinding of a Crankshaft

If your production line has a damaged component, which

- * requires extensive dismantlation
- * requires transport to an outside facility for machining repairs
- * requires time consuming installation.

Call us now for a cost effective solution to your problems.

Professional and friendly service, 24/7
at 1-604-279-8774

Or visit us at :

www.abcgrinding.com



9-12851 BATHGATE WAY
RICHMOND, BC
V6V 1Y5, CANADA

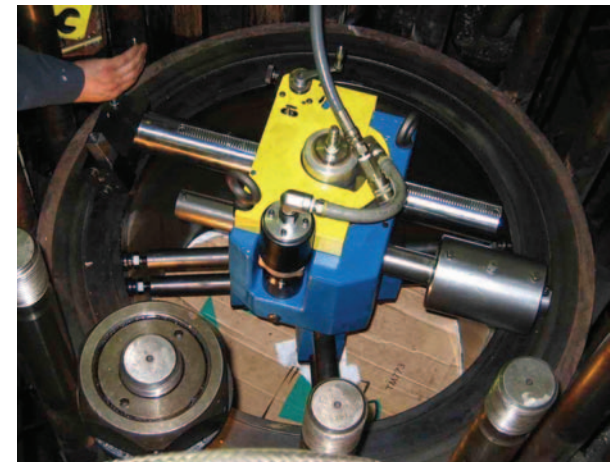


ABC GRINDING CANADA INC.

No more long delays, staggering costs and time lost in extensive dismantling, off site repairs and final assembly...

An on site machining repair depends on a team of skilled technicians and the correct tooling. Our technicians are highly competent and motivated field machinists. We have a large inventory of portable machining/grinding tools to carry out our work. If we do not have the correct tooling on hand we will fabricate to your specifications or source it from our specialized suppliers.

FLANGE FACING



Machining of a Flange

Reface leaking flanges, machine grooves, dome end gasket faces, manways, sealing contacts or for welding preparations up to a diameter of 120 inches (3.05 meters). Tooling can be mounted on inside or on the outside diameters to machine items such as diesel engine liners, piping, exchangers, drums and crane swivel bases. If required, we can mount a grinding head for a ground finish. Other applications include machining of pivot bearing support flanges on heavy construction equipment and main steam pipe flanges connected to steam turbines in power plants, paper and pulp mills.

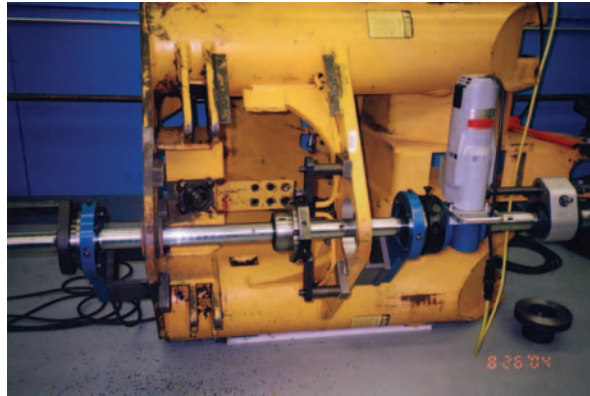
Marine applications include machining of liners, liner landings, and engine frames.

LINE BORING

Boring of bearing surfaces on heavy equipment, (backhoe buckets, loaders). **Marine applications include line boring of main journal pockets.**



Preparing for Line Boring



Boring of a Pivot Pocket

MILLING

Milling of level surfaces on pumps, motors, engines, compressors, etc. where the original material has rusted off or out of alignment. We can repair old and worn key ways. New slots can be machined out on both flat surfaces or shaftings and journals.

Marine applications include milling of bed plates and butt surfaces.

TURNING

Tooling is mounted on to the end of the shaft and work is carried out with the shaft stationary. The largest diameter that can be machined is 25 inches (650mm). If the work area cannot be accessed from the shaft end, then our turning/grinding tools will be mounted directly on to the shaft. Can be used for repairs of all support journals of motors, rollers, engines, compressors, slip rings, thrust face and seal faces.

Marine applications include winches and all kinds of support journals.

HONING

On site honing of all liners in compressors and in diesel engines.

Marine applications include honing of all medium and low speed liners.

All the above machining procedures can be adapted to any angle and our tooling is directly clamped to the work piece. Work can even be carried out upside down.

We can always arrange on site inspections to determine the best and most cost effective solutions to your machining problems. There is no cost involved except for all traveling and hotel expenses incurred.



Facing of a Power Press