

Light Beam Technology, Inc.
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Boyd Machine & Repair, Inc.
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 Wolf Lake, Indiana 46796
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Industrial Services for the Steel Industry



flattening roll stand being rebuilt



Steel mill mandrel segments--carbide coated to given surface roughness for gripping



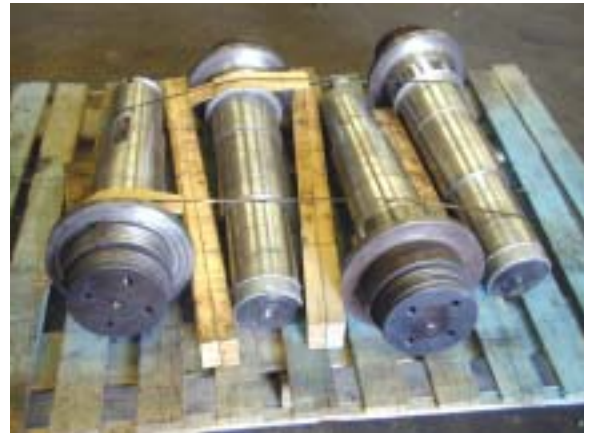
Mandrel shaft, laser hardened on taper area
 Carbide coating on segment area



Laser hardened mandrel segment- OD and wedge (samples)



Damaged segment to be repaired



Arbor shafts for trimmer heads repaired bearing area



Trimmer housing, steel mill repaired bearing bores



Various textured surfaces and example of laser roughness measurement report

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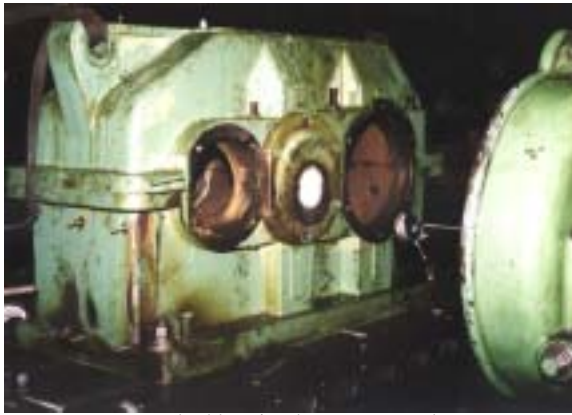
Laser hardened segments



Expanding mandrel sleeve and housing. Repaired bearing bores on housing, laser hardened taper bore in sleeve



Mill roll awaiting carbide coating



Reworked bearing bores on gear box



Steel slab grinder reworked bearing bores



Mandrel segment shaft laser hardened bearing areas



Segments with rough carbide coating



Flattening roll carbide coated, ground & polish finish to 8 - 10 RA. Life 2-3 months vs 3-5 days with chrome