

Worn out Journals of Rotors and Heavy Duty Crankshafts incur huge monetary losses and enormous down **time.**

Similarly, damaged groove of heavy duty pistons also cost time and **money.**

We can save your time and money by offering our following repair and manufacturing services.

Repair:

Journal Rebuilding and Grinding

Hard Chrome Plating

Re-Babbitting

Piston Rebuilding

Manufacturing:

All types of Plain Shaft Bearings

All types Bushings

Labyrinth Seals

Piston Rings

Cylinder Liners

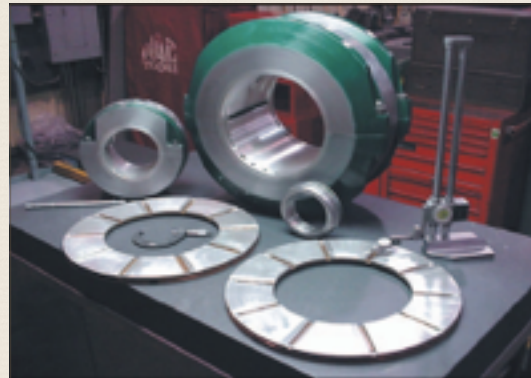
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BEARINGS



We under take Re-Metalling of White Metal Bearings with the material support and technical expertise from ECKA GRANULES of Germany.

ECKA GRANULES acquired legendary HOYTS of UK in the year 2004.

HOYT R11 is our routine Bearing Material, however, other materials can also be provide as required.

Bond Testing



MATERIALS

ECKA - and HOYT - ALLOYS

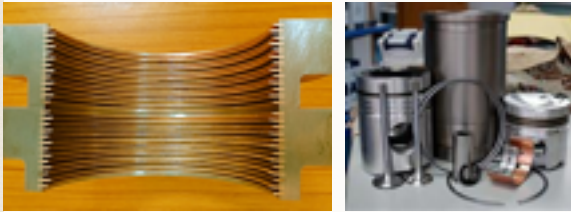
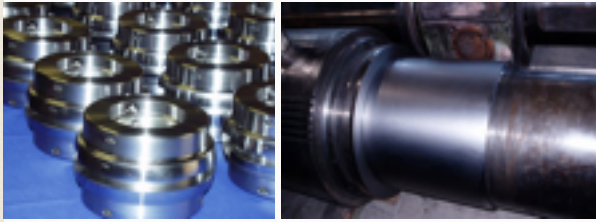


ECKA - AND HOYT - ALLOYS

All alloys are available in ingots for centrifugal- or static casting or in sticks for soldering.

Tin-based alloys are lead free for the best technical properties.

ECONOMICAL SOLUTIONS



Our journal grinding services can save you time and money. It can be essential when shafts wear out over time or when bearings or couplings pick up or drag and create grooves. We can prolong the life of damaged shafts by machining the shaft down and installing a made to fit custom order sleeve bearing. Rotors of turbines and crankshafts of heavy duty engines can be saved by the use of grinding operation and made to fit sleeve bearings.

Our piston rings manufacturing capability can also save time and money. It can be essential when piston grooves of heavy duty engines wear out over time. The damaged grooves of pistons can be repaired and made to fit custom order piston rings can be installed to save highly priced pistons.

BABBITTING PROCEDURE

LINING BY CENTRIFUGAL CASTING is our preferred procedure. However, Lining By Soldering & Static Casting procedures can also be undertaken.



CENTRIFUGAL CASTING

Generally, it is accepted that the centrifugal casting procedure provides the best quality. However, latest research suggests that “for bearings with massive backing wall thickness, other lining procedures lead to better results”.



State of the Art Soldering Process

LINING BY SOLDERING

Professionally soldered lining gives the same high level of quality as expected from centrifugal casting. The soldering procedure can be applied without restriction. Every tin or lead-based alloy can be applied without restriction.



Precision Measurement



Finished Products

STATIC CASTING

We have the required experience to undertake babbitting jobs by static casting. This involves solidification of the cast alloy at the bottom, proceeding upward, and at the same time starts at the bond interface, proceeding inward.



Babbitt Melting



Precision Machining