

USER: Hard-cool mine

DESCRIPTION OF THE PROBLEM: A typical problem of a clearance in bearings' seats of various machines, equipment, transmission gears. The importance of the problem is stressed by the volume of the transmitted powers, loads, dimensions, and depths of the openings. Openings of the diameters up to 1200mm are standard seats qualified for regeneration.

DESCRIPTION OF THE REPAIR: The cold regeneration of seats with the application of two-element epoxide composites has been well checked for several years and successively applied technology. The size of the regenerated seats and the level of loads force out a specific preparation of the surface for the application. The seat is generally bored with borers and grooves are made of the width of ca. 12 mm, depth of ca. 1.5mm, leaving extruding metal furrows of the width of ca. 2 mm. **Chester Metal Super** is put with a spatula on the surface prepared in such a way after defatting it with **Chester Fast Cleaner** and drying it. The final machining is carried out by means of boring it after the material gets hardened.

ACHIEVED EFFECTS: No stresses and high costs connected with the traditional pad welding with metal and machining by means of grinding. The fact of leaving metal furrows is very helpful for placing the composite to achieve a minimal overlay of the regenerating material for a further machining. A closure of the Chester material in a trap in the form of a groove makes it possible to flow outside in the case of exceeding permitted presses.

REMARKS: The contractor frequently initially plans a surface of the division of the body to reduce the cross-wise dimensions of the opening's diameter, which leads to a partial support of the bearings on the tops of the metal furrows. In the case of a selection of the Chester material and an appropriate machining of even such big machined surfaces, the mechanical machining is not troublesome (two passages of the tool).

