



## Umbauten, Erneuerungen, Retrofit

Photo report Heyligensatedt WU 130

### Repair of headstock crack at Heiligenstaedt by WIAP AG

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Gross lathe faceplate Heyligenstaedt. Headstock torn

#### Problem:

The customer had clamped too big a workpiece on the machine. This has torn the headstock. Measures of WIAP: Spindle dismantled. Headstock casting repaired. New spindle bearing made. , The proven NN storage in the existing main spindle bearings installed in place. This with a two-part box, so it was mounted. Construction, dismantling and installation of WIAP AG. Processing the customer. Of execution of the project: in Switzerland.



Figure 1: First, it is always dismantle these faceplates.



Figure 2: It takes a delicate handling by crane when a face plate must be removed from the spindle nose like that.



Figure 3: faceplates dismantling



Figure 4: Here we have marked out as we attach a new front panel. The headstock had split a crack across. With the large front panel we have prevented the further spreading. On a boring everything had to be milled clean and many large threads were needed to enable the pressing force coincides with the friction to continue loading large workpieces.

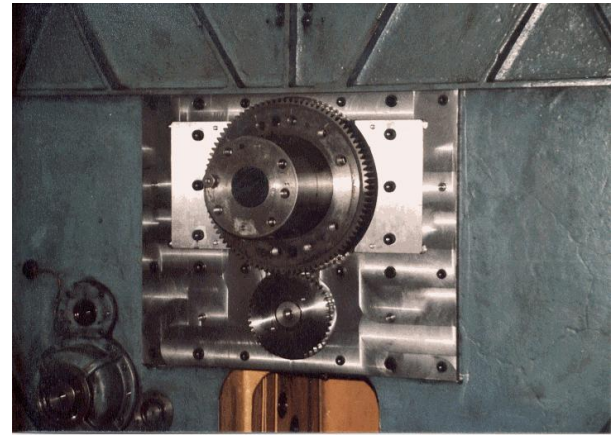


Figure 5: The new record. The spindle bearing, which was previously a slide bearing, we have replaced with a proven NN storage. The recessed spot where the slide bearing was in there, we have made with a precise two-part sleeve so that the bearings are assembled and disassembled. This bearing is complex with respect to spindle bearing to set them because the bias voltage depending on speed can be adjusted. This can also regulates the vibration behavior. Seen from that, one of the best, bewährtesten spindle bearing. We have machines with more than 100,000 hours, which produce properly.

As an alternative, there would still Timken storage or Gammet stock. But these are the Sizes not as versatile and especially the delivery is not as good as in the NN camps, which are chiefly of FAG and SKF.

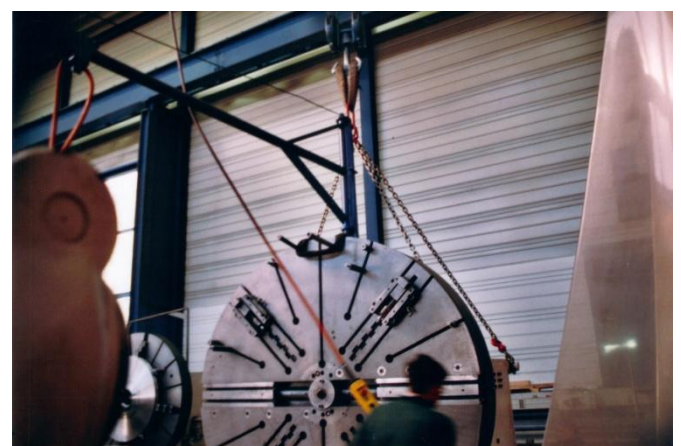


Figure 6: Plan discs dismantling

The WIAP AG continues to expand its machine tools and has a subcontractor base. Whether for new machines or conversions; there are usually used everywhere the same internal components. Thus, the spare parts warranty is secured.

When WIAP AG are not only the old who can do that. For years, the WIAP this training, intensified for the cockroaches. There are always two shaving machines at hand.

The cost of a retrofit (conversion with revision) to a new machine is about 40 to 60% of a new machine, because the basic meat is available. Only an exchange of CNC without drives what is possible today, with analog drives, can not be held rare even among 10 to 20% of the machines new purchase value. Even then, you have the built latest CNC control on the machine so that the operator does not feel he has an old machine. Thanks to the WIAP alarm system design prevents incorrect operations and not know how to do something, backed with messages. This results in a very simple operation for all employees who work on a retrofitted by the WIAP machine. Thus its pleasure to work with the machine.

## **WIAP® AG Ltd SA**

Industriestrasse 48L  
CH-4657 Dulliken



**Phone: ++ 41 62 752 42 60**

Fax: ++ 41 62 752 48 61

**wiap@widmers.info**

[www.widmers.info](http://www.widmers.info) / [www.wiap.ch](http://www.wiap.ch)

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