



## Umbauten, Erneuerungen, Retrofit

### Photo report remodeling Gornati Oilfield Lathe WU250

The conventional machine Gornati was sent as conventional machine from abroad to Switzerland to prepare. That was the 1989th  
The machine wude equipped with a CNC control Sinumerik 810th  
Then, the end customer has ordered a new machine bed, which was wider than the conventional bed of Goranti. That was in the 1998th  
In 2006, the Sinumerik 810 was expanded and grown a new Sinumerik 802nd

### Conversion in Switzerland:



Figure 1: Total revision with retrofit. Conventional Gornati lathe system WIAP.



Figure 2: cultivation of ball screw,



Figure 3: reground bed

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Figure 5: Construction of a new tool turret



Figure 6: oilfield lathe with double lining



Figure 7: New tool slices revolver Sauter



Figure 8: Decrease in work WIAP turning tests of oilfield threads.



Figure 9: New constructed electrical cabinet, all Siemens material.



Figure 10: transmission electrical cabinet

**Growing new machine bed:**



Figure 11: Construction of a new machine bed for Gornati, with cross slide.



Figure 12: the carriage Einschaben X and Z axis



Figure 13: Dossier lubrication system with units and air withdrawal

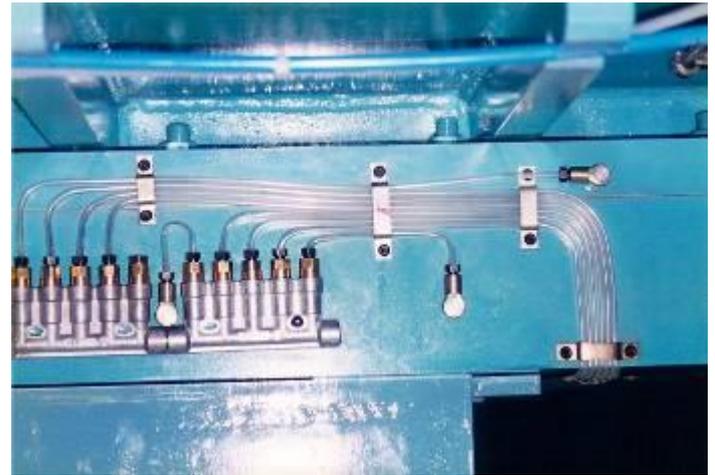


Figure 14: Lubrication. Sufficient lubrication points for Kurzhubbewegungen. Since the machine cuts a lot of thread, often up to 30 passes per thread, many lubrication points are good for the life of the machine.



Figure 15: New CNC Sinumerik 810T with portable box.

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**Growing new CNC at the end customer:**



16: 20 years later no spare controller available, CNC will be replaced with a new CNC.



Figure 17: The Siemens feed and spindle drives are greedy from the air by the sea.



Figure 18: The maintenance people build anything, it serves as their training.



Figure 19: Carlos during disassembly of components



Figure 20: The new CNC control Sinumerik 802 DSL

projects



Figure 21: There are still a lot of wiring, but the main components are there. A small mishap. At 13.8. went by air freight of 30 KW motor with the controller to Angola. And various cables. Supposedly a week to 10 days. Today is 1.9. and there is not anything here! Fortunately, we have just delivered at the beginning with the first delivery, the replacement goods, in an emergency, we can then start. In Angola months for material you have to think in advance.



Figure 22: The machine rotates many different components.



Figure 23: Heavy components in the machine. Extremely required WIAP machines.



Figure 24: parting and collect the parts of the crane, which is not in Europe.



23: So the machine again looked new.

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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

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