

Umbauten, Erneuerungen, Retrofit

Photo report WU 125 Bank 11

Roll lathe Hercules revised by the WIAP AG

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Use: Year

The WIAP AG was able to rebuild 7 roller turning machines for a customer. That was a very interesting work, which made a lot of joy, but at the same time was a major technical challenge.

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,

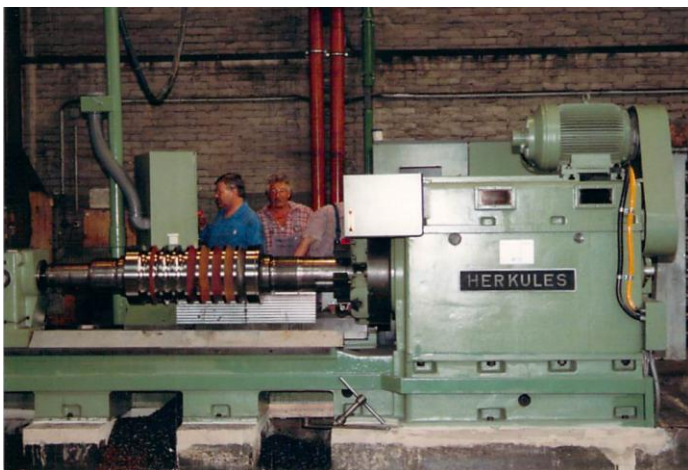


Figure 1: This roll lathe Hercules is very robust built. We had in the Z-axis 80 mm ball screws installed because extremely high forces arise when four steels are simultaneously engaged.



Figure 2: The sub base is being filled with cement, so that the vibrations are damped and that with special cement, which behave properly when dehydration.



Figure 3: The CNC Sinumerik was equipped with a special program. The WIAP developed parameterized special programs, so that the operators, some of which were about to board, without expertise, respectively. very easily could operate this machine after reconstruction CNC experience.

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Figure 3: The two axes X and Z have a hand wheel for better scratching at the tool zeroed.



Figure 4: Normal 4 steels were engaged simultaneously. Program test was only one in use.

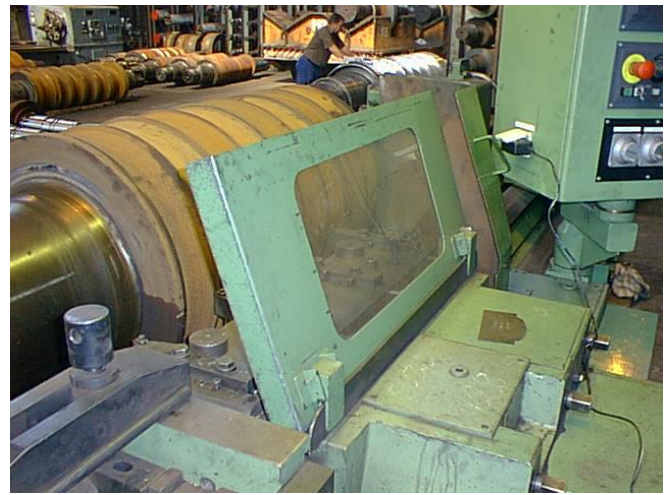


Figure 5: The material is very hard. The speed was slow with ceramics. It was good to hear how hard the rolls were.



Figure 6: Some tons these rolls were.



Figure 7: The WIAP operator trains the customer and the workshop boss.



Figure 8: The claws box has the WIAP all revised so that the machine almost like a can work new machine. Often even better than a new one, because today a lot is no longer built as sturdy and stable, as in the old machines.

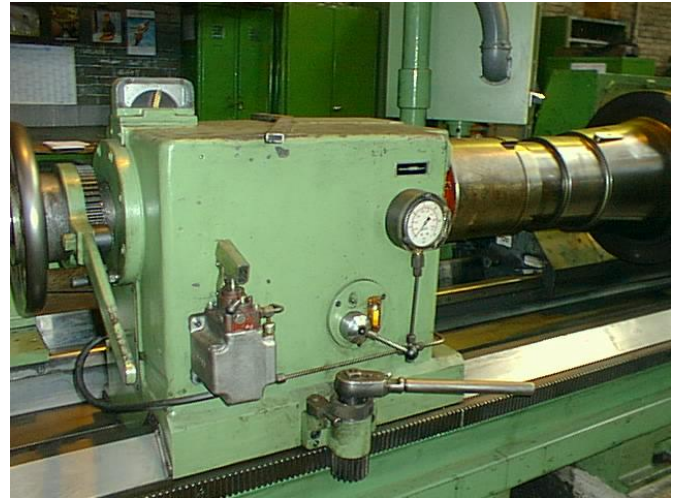


Figure 10: The tailstock has to go out the rollers from the claws box, always unclamped with an extremely good clamping and are then moved back. The hydraulic always had to be revised in all machines, because there was leakage, which complicated the handling.



Figure 9: Extremely robust and stable is the headstock. The new spindle motor was put back on the headstock and electrically designed for stepless speed regulation.



Figure 11: The whole electrical system was completely renewed, according to the provisions of the final customer.



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Figure 12: The 4-way tool holder had to agree to the hundredths. That went, she was hired in Werkzeugvoreinstellraum and the heavy holder had a special tool system for assembly and disassembly.

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.

***Manufacturers and sales, design
electrically and mechanically everything
from one source***

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