



Umbauten, Erneuerungen, Retrofit

Photo report remodeling FujiOilfield Lathe WU260

The machine comes from Angola to Switzerland to WIAP AG for a major overhaul.



Figure 1: Fuji Seiki machine on the way back to Switzerland.



Figure 3: So the machine looked before the renovation. After the first conversion, the machine ran for nearly 20 years, then she came back to Switzerland for Neuumbau. WU_260_20



Figure 2: The machine is completely dismantled



Figure 4: The main spindle of Fuji had a problem, so that could not be rotated correctly. It was just a small problem and few measures necessary so that could be rotated properly again,

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5. Insert image interesting how the various machine tool manufacturers all have their own way for their spindles. But in every way you can understand why they did it that way.



Figure 6: The engine was shipped from Angola to Switzerland to completely overtake new. Mounting Fuji Seiki machine for the oil industry with a new CNC control. Whole geometry is made better than a new machine. The cast has aged, newly sanded the bed. WU_260_30



Figure 7: scraping the geometry. about 0.004 mm can be removed per Schabddurchgang. WU_260_40



Figure 8: The cockroach is an old manual labor, which allows for Gusschlitten good slip without Stip Slik. WU_260_50



Figure 9: Abtuchieren the tailstock base. WU_260_60

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Figure 10: Clean work is important if a good result will be achieved. WU_260_70



Figure 13: For hours scraping and again put the sled again to the ground pad and abtuchieren. When 10-15 support points on one inch in / 2 is da (25.4 mm / 2), it is ok for old rules. For grinding 25 contact points per / 2 inches are required. WU_260_90



Figure 11: Chris left and Jim Widmer right. Such an assembly is not made in a day. It is expensive. WU_260_80



Figure 14: Caroline Widmer drilled new lubrication holes in the sled. WU_260_100



Figure 12: Caroline Widmer left and Jim Peter Widmer right prepare the compound slide in front of the assembly.

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Figure 15: This requires some force. However, there will be many new lubrication holes, as the machines short stroke, investments like these Oelfeldgewinde, often drive only about 150 to 200 mm Dauerwegbereich, has enough lubrication in both axes X and Z. We have min. 3 made x more lubrication points , WU_260_110



Figure 17: It takes a long drills and often the cast is quite hard, which is related to the cooling and the wall thickness of the respective zones, there must be drilled with tact WU_260_130



Figure 16: It is so bored that the lubrication lines are mounted on the chip area can. Below is there a cover WU_260_120



Figure 18: The right sliding layer is the heart of the work. The WIAP has virtually worked with all and utilize the respective necessities. Especially that the stick-slip effect = Haftgleiteffekt, not a negative effect on the precision of the machine tool.

The WIAP has a Luftabhebesystem as a remedy for problematic situations. Then is always reduced air pressure when the carriage feed.

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Figure 19: Caroline Widmer has canceled the workout. She noted that it goes well with work and you still make money there and not always just have to pay. WU_260_140



Figure 22: The machine has suffered greatly in Angola, a few meters from the sea. That eats everything, so we bought the best quality color and even matched it with the color supplier before.



Figure 20: To bring a heavy machine bed in a painting is complex and complicated, while a machine back construction. But it takes 100% discipline. clean clean, good 2 K color which is solvent and emulsion-resistant from the primer. And a good quality assurance. Everyone has to controlling the other, that is not sloppy.



Figure 23: After Angola we only air-conditioned electrical cabinets. The worst is the condensation. When the plant is running, no problem there a power failure is, after about 8 hours, all full of water in the closet, and often it destroys the electronics. Also heaters are necessary when the temperature drops follows in the night and the day, the high humidity. The WIAP here has already invested many hours in studies for areas facing the sea in tropics. WU_260_150

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Figure 24: What a Oelfeldspindelstock is difficult. The flight to the Z axis must be perfectly correct. Ideal to 300 mm less than 0.03mm taper that is in radius 0015 and to the right page. As a rule, always forward further away from the lining thinner because the cutting pressure further and further away by the tool from the chuck, expresses more.



Figure 26: The Fuji Seiki, Japanese lathe, ex. conventional lathe.

The WIAP AG continues to expand its machine tools and has a supply Ante tribe. 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.



Figure 25: Now is the Olefelddrehmaschine which was converted from a conventional, ready to be delivered. New ball screws. New tool turret; reground bed; reground slide and new with sliding occupied. Newest lubrication system; new spindle drive and much more.

A strength of WIAP AG. From old makes new.

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 one has the N 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, supported by reports that a very simple operation to all employees who work on a retrofitted by the WIAP machine joy have to work with the machine.

Photo report remodeling Fuji Oelfelddrehmaschin WIAP a partner for many projects

End tag Retrofit of Fujii Seiki lathe Oelfedl

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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 / www.wiap.ch

