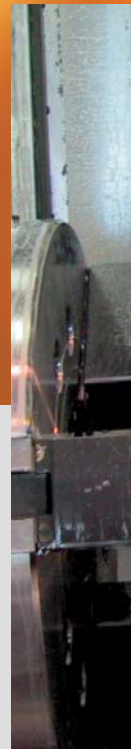
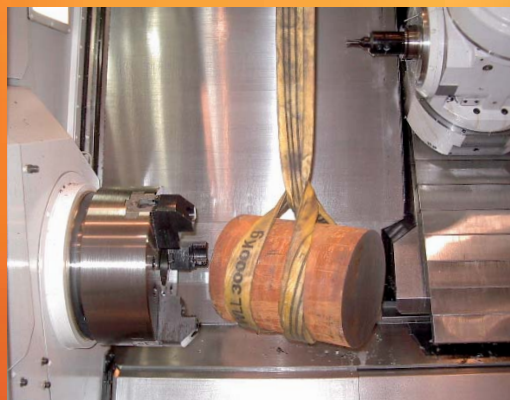


NEW TECHNOLOGY IN THE PRODUCTION PROCESS –

How do you benefit?



High precision, improved quality and shorter delivery times are important criteria for a quick and flexible order processing, all of which is in the interest of the customer. Back in 2003, a new production concept was introduced for turbine meters. Having invested in the fully-automatic CNC machine tool Mac Turn 250 from OKUMA, it became possible for the first time to process complicated parts for turbine meters with the help of only one machine. The introduction of this new technology meant that the quality of components such as the gear unit could be improved to the highest possible degree.

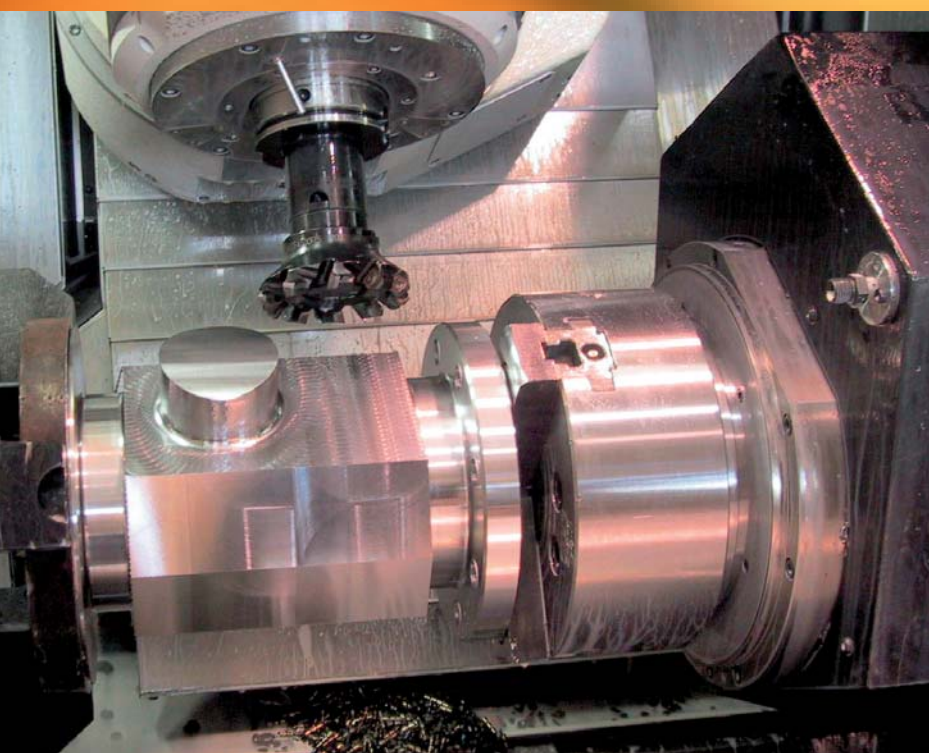
Another important criterion for Elster-Instromet is the development, design and manufacture of high-precision components from under one roof. This means that we can meet the changing requirements of the markets as quickly and flexibly as possible.

Up to now, a steel housing for a turbine meter was made from one mould, which of course meant that if a new version was required, a new mould had to be made.

In particular when it comes to cast steel housings, it is very difficult to obtain a high-quality surface finish.

As a result of this, Elster-Instromet has now decided to use the same modern machining technology for large parts as well as for small ones.

For the benefit of those who are interested in technical details, the new machine is even bigger, with the dimensions of railway carriage and a total weight of 32 tons. It has a turning diameter of 720 mm, a turning length of 2500 mm and is fitted with 80 tools for turning and cutting purposes. In order to completely manufacture a housing in one go, the machine tool has a pick-up spindle. The main- and counter-spindles operate synchronously. Together with revolvers A and B, the machine has a total of ten computer-controlled axes.



With the Mac Turn 550 it is possible to produce a housing from one roll of steel. The machine configuration enables us to manufacture a turbine meter with a diameter of up to DN150 using a sawed metal rod of 240 kg. The intelligent fixture-setting system allows us to refit the machine in only ten minutes in order to manufacture housings in a range between DN 50 and DN 150. The technology for clamping heavy housings, which we have developed in cooperation with external partners, has in the meantime been patented. So, as you can see, Elster-Instromet is once again an innovative forerunner in this field.

The result is an individually-manufactured housing with a high quality finish. It is not only this complete machining process which works so well, we are also able to produce meters from castings without any problems.

Those customers who were able to visit the new machine in the course of our large-volume gas metering seminar were extremely impressed. When will you let us impress you?

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