

UNISIGN EXPERIENCE

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General machining

Case study



Application

High-precision machining of large parts and welded structures

Material

Steel

Customer

Zekof s.r.o., Czech Republic

Machine type

UNIPORT6000

Benefits

- Unmatched precision machining
- Improved product quality and production efficiency
- Time savings by milling and drilling in a single setup
- High level of user-friendliness
- Maintenance and support via local partner

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Machining welded structures that require the highest precision

About our customer

Zekof s.r.o. is a contract manufacturer, located in Loštice in the east of the Czech Republic. The company is engaged in the complete engineering, production, and machining of large-format precision parts and welded structures.

The company serves customers across Europe, including renowned names such as Homag Brandt, DISA, Nidec, Siemens, Flender and Liebherr. All CNC machining for customers is carried out in a dedicated facility designed specifically for this purpose.

The challenge

In 2021, Zekof decided to expand its production capacity to machine large welded structures in-house with the highest accuracy. This launched a selection process for a high-tech CNC machine, supported

by Unisign's long-standing Czech partner, MRM Machinery.

The solution – UNIPORT6000

Radek Sopl of MRM Machinery guided Zekof through the selection process of the new CNC machine. He explains: "To meet their production challenges, Zekof ultimately chose the UNIPORT6000. This portal CNC machine is equipped with a carousel table. The decision was driven by the machine's exceptional flexibility and its ability to process large welded structures. Just as importantly, it enables advanced milling and drilling operations that were previously impossible with their older equipment."

Highest precision

Igor Sitár works as Quality Controller at Zekof. In his role, he also checks the quality





of the workpieces machined on the UNIPORT6000 on their Zeiss CMM machine: “The welded constructions we produce in small series are measured afterward using a measuring machine. The quality of the UNIPORT6000’s output is outstanding and consistently meets customer specifications. No other CNC machine in our facility can achieve this level of accuracy.”

Increased efficiency

In August 2022, the UNIPORT6000 was

installed at Zekof’s site. The arrival of this machine required adjustments to the flow of their production process, explains Igor Sitár: “Because parts are processed much faster on the UNIPORT6000, we had to adapt other areas of our workflow to keep pace. This CNC technology from Unisign has allowed us to optimize our production process for greater efficiency.”

Positive operator experience

Zekof has a large machine park with CNC machines from various brands. With over

15 years of expertise, Ladislav Málek is one of the three highly experienced and skilled operators who work daily with the UNIPORT6000. Ladislav Málek: “The quality, precision, and machining speed are excellent. Also, the speed with which you can change tools is impressive. Compared to other machines, the UNIPORT6000 maintenance requirements are noticeably lower, and the ability to machine parts in a single setup saves us a great deal of time. The machine is very user-friendly, and whenever support is needed, Unisign and MRM Machinery respond quickly and effectively.”

Local maintenance and service

“With the UNIPORT6000, Zekof has significantly increased productivity, reliability, and technological capacity in its production process,” continues Radek Sopf. “To ensure long-term performance, MRM Machinery provides preventive maintenance, machine geometry checks, and technical support for new applications. This comprehensive service approach guarantees that the UNIPORT6000 remains an efficient, reliable, and future-proof addition to Zekof’s machine park.”

