

CASE – Fagerlunds Værktøjs- og Metalvarefabrik

In November 2014, a project between Fagerlunds and DAMRC was concluded with extraordinary results. The project aim was optimization of the manufacturing process of the actuator head. The results are:

- ✓ 21 % Money saving
- ✓ 5 % Time saving
- ✓ Milling machine: 100% free for other production
- ✓ ROI on investment of a new angle head: 2847 parts



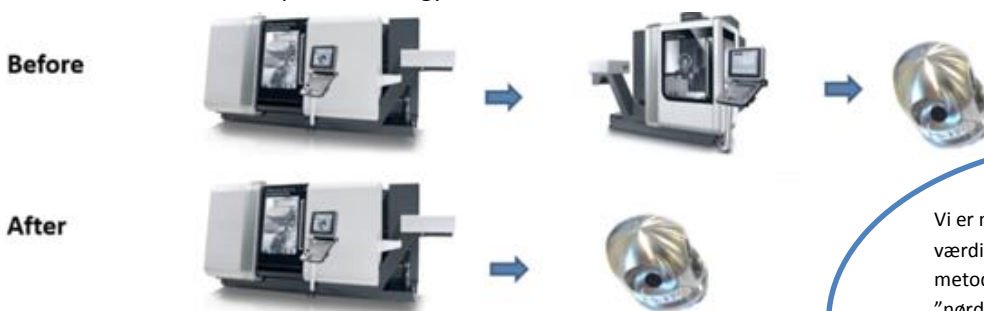
This incredible improvement would not have been possible without the availability of the **Mazak Integrex** together with the DAMRC expertise. The direct collaboration MAZAK/DAMRC permits breaking down the barriers of machining due to the availability of state-of-the-art machinery in the DAMRC Technology Center.

The challenge was in machining the pocket located in the side. The original process was to open the pocket at a milling machine – move the part to a lathe and finish the pocket. Even though the machine tool (lathe) had the possibility of milling process, it was unfeasible to finish the part in one single machine due to the dynamic instabilities of the process. In order to achieve the goal of reducing the machining

time and cost, DAMRC's aim was to make it possible to machine the part in the lathe = using only one machine.

Actions taken:

- Dynamic analysis of the process at Fagerlunds.
- Operation replication & dynamic analysis in DAMRC Technology Center
- Preliminary tests at DAMRC Technology Center at the Mazak Integrex – avoiding downtime at Fagerlunds
- On-site tests at Fagerlunds.
- Exploring different strategies, cutting parameters and alternative tools.
- After implementation, DAMRC performed a machine stability test at the Mazak lathe at Fagerlunds in order to secure the most optimal strategy.



Vi er med dette forløb blevet mindet om værdien af løbende at prøve nye metoder og teknologier af. Den lidt "nørdede" viden, DAMRC besidder gør at vi kan udnyttede nye maskiner og teknologien fuldt ud. Vores virksomhed er efter forløbet konkurrencemæssigt bedre stillet.

Projectname: Automatization of manufacturing process
 Partners: Fagerlunds Værktøjs- og Metalvarefabrik & DAMRC
 Budget: DKK 100.000
 Funded by: Auto Videnkupon by DPU
 Time: 3 month

For further information on working with DAMRC:
www.damrc.com or call DAMRC Mobile +45 2154 5054

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