

# TURN-KEY SOLUTIONS BY FOOKE

---

JUNE 2022

---

## REDUCING MACHINING TIMES

### HOW FOOKE MANAGES TO GENERATE TIME SAVINGS OF UP TO 50%

The entry into the Japanese tooling market is done. FOOKE was able to install two modern HSC milling machines of the type ENDURA® 704LINEAR and ENDURA® 908LINEAR at one of the largest Japanese tool manufacturers for prototype production. This installation meant not only the market entry in Japan, but at the same time a drumbeat for the machining times of various components - reduction of up to 50%!

How could this be achieved?

During the analysis of the machining, the lengthy classical machining processes and control measurements stood out. Reworking had to be performed on all parts because they did not meet the specifications. Therefore, the process was analyzed holistically by our specialists, taking into account the customer's know-how:

- Precise analysis and evaluation of the customer-specific requirements in terms of machining time and surface quality for the optimized process on an ENDURA® machine.
- Simulation of the machining and milling process
- Development of an individual, as well as modern milling strategies and programming
- Selection of tools
- Determination of specific HSC roughing and finishing parameters

The customer was extensively trained by us in using the highly efficient milling machines from FOOKE. All milling strategies were consistently converted to modern HSC strategies with the help of application engineers from our company. This was done in the FOOKE Technology Center and at the customer's facility. The result is demonstrably the reduction in machining times promised in advance, by 50%! And this with a significantly better surface result. This also reduces polishing times by 80%.

In some cases, polishing can even be dispensed with completely. The compact ENDURA® 704LINEAR portal milling machine is used for the complete machining of medium-sized Zamak tools for press-form-toolmaking. The highly rigid portal milling machine ENDURA® 908LINEAR with a machining area of 6,000/3,500/1,500 mm is used for machining cast steel materials and also for press-form-toolmaking. Entire side parts from the automotive industry can be accommodated here.

To realize such machining times and surfaces, the LINEAR-Drive is the perfect choice. Highest backs and accelerations allow high and above all constant path speeds. The mechanical "freedom" of the drive is free of drag distances or oscillations that occur with classic drives.

# TURN-KEY SOLUTIONS BY FOOKE

Page 2



## CUSTOMER SCENARIO

**GOAL:** excellent surface qualities, precision and fast processes

In order to ensure competitiveness to the ever increasing demands on the world market, excellent surface qualities, precision and fast processes were the goal.

### INDUSTRY:

Japanese tooling construction out of aluminum and steel

### SOLUTION:

- Precise analysis and evaluation of the customer-specific requirements in terms of machining time and surface quality for the optimized process on an ENDURA® machine.
- Simulation of the machining and milling process
- Development of an individual, as well as modern milling strategies and programming
- Selection of tools
- Determination of specific HSC roughing and finishing parameters

### MACHINE TYPES:

- ENDURA® 704LINEAR
- ENDURA® 908LINEAR



### RESULT:

- ✓ Reduction of machining times by up to 50%, for various components
- ✓ Reduction of the post-processing time many times over

Do you ask yourself how long your component would take on a FOOKE gantry milling machine? Let us show you. Feel free to contact us personally, either at [sales@fooke.de](mailto:sales@fooke.de) or call us at 02861-8009-222.