CUSTOMER-SPECIFIC SERVICES
SPECIAL MACHINING

Catalogue cam units are equipped with a tool-specific machining for the tool in the mounting surface so that the required components can be fixed on the mounting surface. This machining is performed in the classical process of the toolmaking, often in a certain maturity of the tool itself as well. Process responsibility and risk lie with the executing tool shop.

As a service, FIBRO offers the complete machining of catalogue cam units according to customer specifications. The machining is closely matched to the customer requirements of their tooling process. In addition to conventional qualities, which serve the requirements of classical tooling processes, FIBRO also offers a high-precision finishing of cam units, which are equipped on cam units to be ready for operation (efp*). efp* equipped cam units allow the cam unit to be mounted in the tool with a subsequent initial test press stroke in the tool without further adjustment measures of the cam unit. As a result of processing at FIBRO as extended workbench, we assume the responsibility for the entire cam unit manufacturing process.

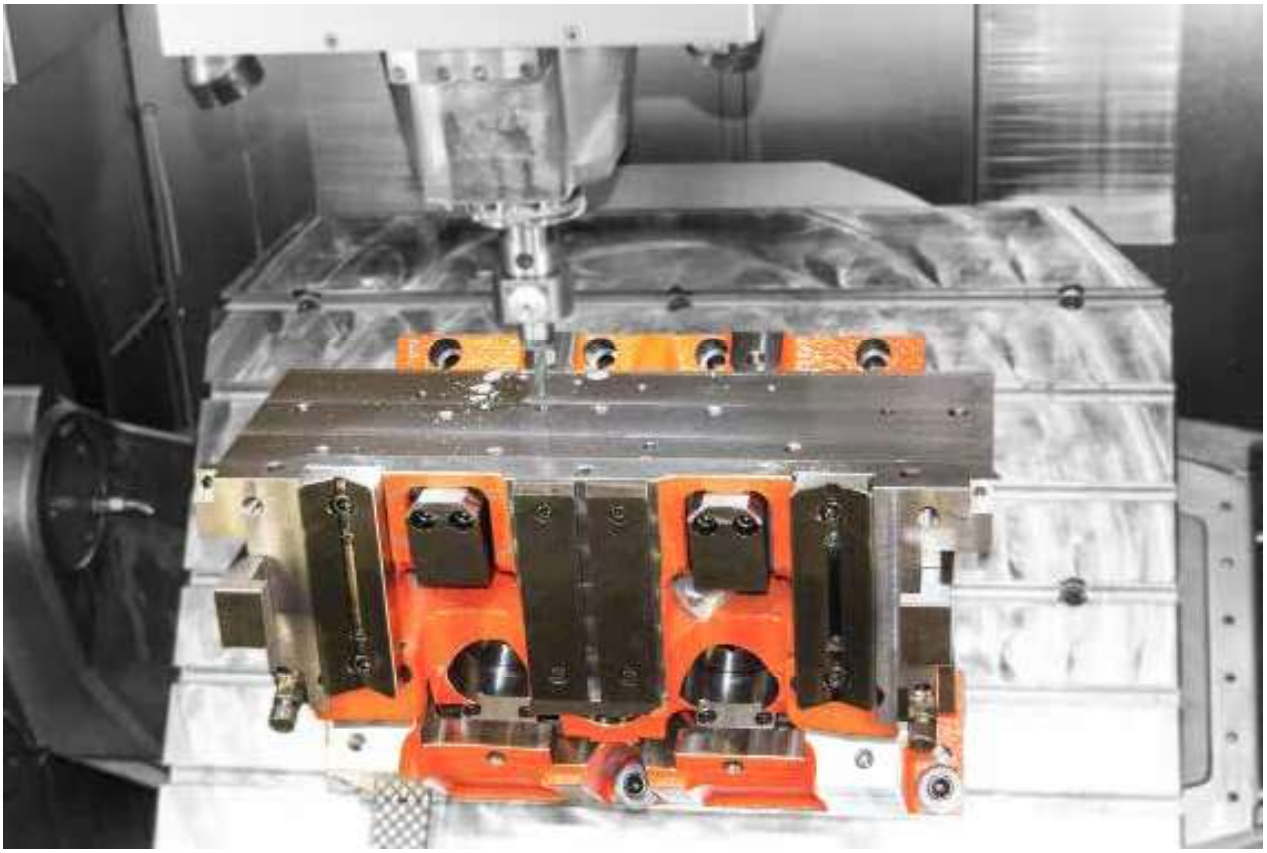

Figure 31: Special machining of cam units according to customer data

The tool-specific machining of cam units by FIBRO allows you to further rectify your processes in toolmaking. In addition to relieving logistical capacities, the machining, testing and cleaning of the cam units in your facility is also dispensed with. You keep limited capacities in your mechanical manufacturing and assembly free for other tasks, thus reducing the processing time of the tools and ultimately saving costs.

CUSTOMER-SPECIFIC SERVICES
SPECIAL MACHINING

If you want a tool-specific machining of the cam unit working surface, you can clarify your process-specific requirements, ideally at an early stage before the first order. The cam unit working surface is machined according to the data you provide. Our process is set up for the processing of 3D data in a variety of formats. We prefer to accept data in the format CATIA V5, but we can also process other native and data exchange formats such as step. In order to transfer important information for production, the data must be processed according to a clearly agreed methodology. As a well-established standard, the colour coding of the machined objects has been established according to the colour coding in accordance with the basic guideline for equipment constructions of the German automotive industry (see register APPENDIX "CAD colour coding ..."). Naturally, you can also take your own factory standards into account. The selected standard will be clearly agreed upon with us and clarified in advance.

In the course of an order, we will require the working stock number (tool number) as well as the item numbers of the cam units with special machining. For the respective cam units, the tool-specific machining of the working surface must be noted on the order as an additional text in the order (e.g. "Machining according to CAD data"). The order must be received in time so that the desired delivery date can be met. The regular delivery time for cam units with a specific machining of the mounting surface is 5 to 8 weeks. The actual delivery date depends on the availability of the approved production data. These should be received by us 15 working days before the desired delivery date in the agreed quality. A delayed receipt of the data may lead to a delay in delivery.

Please note that modified requirements to the machining can no longer be ensured after approved production data has already been provided, and this can result in the accepted delivery dates being postponed.

We will be glad to advise you on further questions and we will send you an appropriate offer if you wish.

*efp = equiped for press

CUSTOMER-SPECIFIC SERVICES
CUSTOMER-SPECIFIC CAM UNITS

In many toolmaking areas, purchased cam units are established as a cost-efficient option. Standard solutions can be used for a wide range of applications thanks to a diversified range of cam unit series.

Complex component geometries, overlaps with mechanisation devices or modified geometrical requirements on cam units do not permit the use of standard cam units in various cases. Tool-specifically configured cam units from FIBRO represent an alternative to the self-constructed and self-made cam units used here. This allows application-specific requirements to be combined with the advantages of standard purchase cam units.

Take advantage of our expertise

FIBRO develops tool-specific cam units according to the same technical standards as catalogue cam units. By inquiring at an early stage, we can closely accompany you in the development of dies, and you also have the possibility to design an optimal solution for your application. Our tool-specific cam units means there is no longer any additional logistical effort required in your procurement processes as well as in the parts supply in the workshop. The installation of the tool-specific configured cam unit corresponds to the process sequences of catalogue cam units, assembly and tuning measures within a self-made cam unit are no longer required. The analytical design of these cam units is the basic requirement for a smooth application over the intended life cycle of the cam unit. However, should undesirable wear occur during the tool lifetime, a rapid spare part supply is ensured by the use of a maximum number of standard parts in the cam unit. Through the entire tool development and assembly process, as well as the entire lifetime of the cam unit, FIBRO is thus your competent contact person for all your cam unit questions.

Features customised cam units

Tool-specific configured cam units from FIBRO generally have the same properties and qualities as our catalogue cam units. In general, we can realize working widths up to 1100 mm for you. The conversion possibilities of working widths greater than 1100 mm must be clarified in advance.

What is the process?

Tool-specific cam units are always used when a standard cam unit cannot meet the requirements of the tool. These can be very simple changes, such as a widened working surface, but also very complex scope of changes, such as complete offset cam unit components, multiple working surfaces, modified stiffnesses, etc.

The descriptions as exact as possible of your requirements for the cam unit are the basis for an target-oriented engineering of your tool-specific cam unit. In addition to the desired design principle (on which series your customer-specific cam unit will be based), we will also require a detailed description of the extent of change. Alternatively, you have the possibility to describe your problem to us in the tool and to provide us with design data from your tool (for example, part position, method plan, maximum possible space for the cam unit) as well as the tool environment (e.g. restrictions on mechanisation devices). In this case, FIBRO can handle the entire engineering of the customer-specific cam unit for you.

Of course, you also have the possibility to send us modified CAD data from our catalogue cam units, from which we can then extract the properties of your tool-specific cam unit. The plausibility and feasibility test as well as the manufacturing technology preparation with resultant possible technical modifications are made in our facility due to reasons of the warranty.

CUSTOMER-SPECIFIC SERVICES
CUSTOMER-SPECIFIC CAM UNITS

Normally, you will receive a CAD design draft of the tool-specific cam unit within 3 working days of your request. In the data format CATIA V5, or alternatively in the neutral exchange format STEP, as well as the article number associated with the cam unit. Via these, it is possible for us to clearly assign further arrangements during course of the project, and the cam unit can be procured from us in this way. In parallel to the design, our sales department will work out an offer for you for the tool-specific cam unit.

The manufacturing-technical detailing as well as the production of the tool-specific cam unit only occurs after you give a production go-ahead. After this production go-ahead, bigger changes, for example a change in the cam unit angle are still only conditionally possible according to the progress of the production, and at this point absolutely require an agreement with us. Changes after the production go-ahead may result in additional costs and delays in delivery.
Due to manufacturing reasons, you should give the production go-ahead of the tool-specific cam unit 8 weeks before your desired delivery time. A delayed production go-ahead can lead to a delay in delivery; shorter delivery periods must be agreed with us at an early stage.

If you have any additional questions, our technology and sales departments will be happy to assist you.
Contact persons, see the “EMERGENCY SITUATION / CONTACTS” tab.

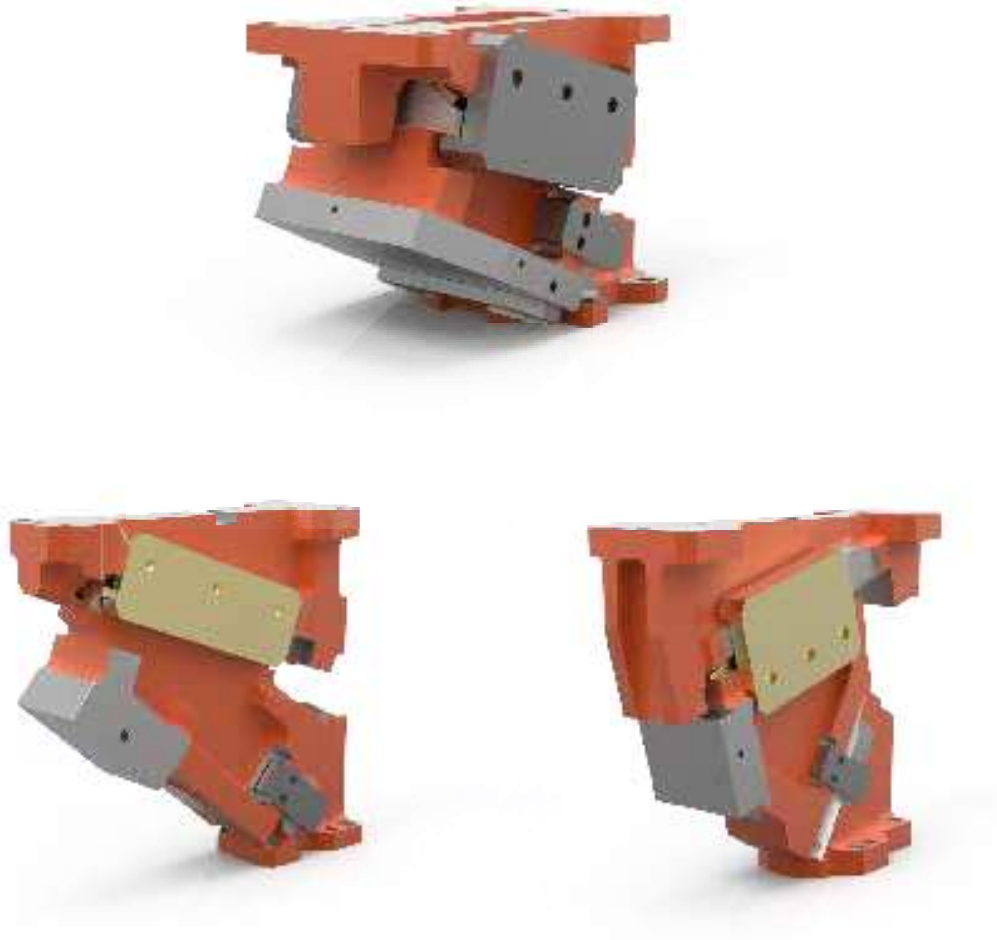

Figure 32: Selection of various customer-specific cam units