

# User Report

## KLB Blech in Form GmbH

**FARO**



Quality assurance at KLB Blech in Form GmbH with the help of the FARO Fusion

## Highest quality requirements in metalworking

**METALWORKING / INSPECTION** To meet high quality requirements, the quality department of KLB Blech in Form GmbH relies on FARO portable measuring arms. Significant time and cost savings can be made, particularly in the receiving department, in in-process and final inspection as well as in support of production and engineering.

The complexity of the metal parts produced, in terms of their geometry and the accuracy required has steadily increased in recent years. Expectations in terms of services have also increased, and the scope of measurement and test documentation plays an ever increasing role. Investment in the appropriate technology is therefore essential. The gap between the measurement effort and meaningful measure-

ment results, which has become bigger in recent years, could not always be guaranteed with the previous measuring methods.

The company KLB uses the Faro Fusion measuring arm to measure typical welded parts, punched and curved parts and for testing prototypes, among other things. The large amount of time needed for re-measuring various details of a component made the decision in favour of

the 3D measuring system easier. For example, in the case of medium-sized welded parts (dimensions: L: 2133 mm; W: 940 mm; H: 1000 mm), with subsequent mechanical processing, hole patterns on all sides are checked with appropriate positioning tolerances.

Thanks to the FARO Fusion the measuring effort has been reduced by up to 30-40 % compared to the conventional methods. >>

# KLB Blech in Form GmbH

www.klb-kuri.de / www.wuppermann.de



3D measuring technology optimises and speeds up internal processes

>> Measuring and analysis mistakes in high volumes of data have almost been eliminated thanks to the possibility of specifying tolerance ranges and subsequently analysing them automatically.

Furthermore the measuring system is also used to record complex components for which there are no production documents available. In reverse engineering, for example, the documented measurement data are used as a basis for the design and production of construction plans. This is often particularly useful for old components, as in many cases there are no plans available for these. This means the replacement parts produced can be installed by customers without any problems, that is to say, without the additional effort of lengthy adaptations and checks.

The 3D measurement data also eliminate long-lasting and possibly inaccurate manual measurement. With the help of the CAM2 Measure 10 software from FARO, complete 3D documentation can be created, saving time and money in the quality department. Thanks to the software's detailed measurement reports, the tolerances of various components can be quickly and clearly recorded. The FaroArm Fusion also helps to reduce the measurement effort to the absolute minimum.

"Our practical experience shows that we have generated considerable benefit and hence advantages in a variety of internal processes thanks to FARO Arm Fusion."

MANFRED BRÜDERLE, QUALITY MANAGER

Manfred Brüderle, quality manager at KLB Blech in Form GmbH, is convinced: "Our practical experience shows that we have generated considerable benefit and hence advantages in a variety of internal processes thanks to the use of FARO Fusion."

## KLB BLECH IN FORM GMBH

KLB Blech in Form GmbH, a medium-sized company, was founded in 1998 in Herbolzheim in Breisgau and is today part of the Wupperman group, with 1,300 employees at ten production sites across Europe. The KLB product portfolio includes the development, manufacture and sale of metal products made from steel, stainless steel and aluminium, as well as the construction of apparatus including surface treatment. KLB is a specialist in complex and high-quality sheet or metal parts of any shape and size, as well as a systems supplier employing innovative solutions and the latest technology, from the initial idea, through design to execution. The most important industries include mechanical engineering and commercial vehicle manufacturing, the electronics and solar industries, medical technology and apparatus construction, with global logistics. The processing spectrum ranges from design, through the manufacture of individual parts and surface treatment, to assembly and installation of systems. KLB's own quality management ensures that all products are of the highest quality. Every step of a project is carried out in-house at KLB, ensuring that time and costs are minimised, while at the same time maximising quality.

@ WWW.KLB-KURI.DE  
@ WWW.WUPPERMANN.DE

## – 4 GOOD REASONS –

Manfred Brüderle, Quality Manager at KLB Blech in Form GmbH

- 1 High precision: The FaroArm ensures the most accurate results and therefore minimises waste.
- 2 Portability: The measuring arm can be used directly on the component to be measured. This avoids the need to remove and transport components, which saves time and money.
- 3 Robust: The FaroArm works reliably in harsh industrial environments.
- 4 User-friendly: The straightforward CAM2 Measure 10 software is easy for the user to operate.



© WWW.MEASURING-ARMS.FARO.COM/DE

## SUMMARY

Cost-effectiveness, significant time savings and greater flexibility are not only achieved in quality control at KLB but the whole production process has been considerably speeded up. Measuring effort has been reduced by 30-40 %.