



CUSTOMIZED INDUSTRIAL DESIGN

BRANCH OF INDUSTRY

precision engineering

ITEM

metrological cell

LOADING

manually

SPECIAL TECHNICAL FEATURES

- top-quality-appearance, custom design
- ergonomically arranged controls
- reliable operation

TASK

For a sophisticated metrological task, ASA Automatisierungs- und Fördersysteme developed a cell design whose layout and color scheme would also reflect the extraordinary character and superior quality of the product involved.

IMPLEMENTATION

The cell that ASA developed and built extremely accurately measures the dimensions of the basic structure for a product on a coordinate measurement machine. Since this machine is manually loaded, both functional aspects and ergonomics played a role in cell design. The cell is accessible through a securely operating overhead door on its front side for manual loading purposes, which leaves the cell's entire front face and the rest of the cell freely accessible by operating personnel. Measurement runs are triggered from an externally mounted touch-screen terminal whose display allows real-time tracking of the metrological data obtained.

Special attention was also devoted to the attractiveness and ergonomic layout of the cell's external operating controls, which, in this particular case, were intended to largely eliminate operator errors. All connections for the necessary utilities, as well as the cell's controller unit, are situated on the cell's rear face, where they are well-protected, but remain "out of sight."

BENEFITS

Measurements on components represent an essential stage in manufacturing operations, and are critical for ensuring product quality, which is why reliable cell operation is the decisive factor for downstream manufacturing operations. Manual loading of the cell proceeds highly ergonomically. The cell operates reliably and has a sophisticated design and attractive color scheme. Cell ventilation has been designed such that ambient-temperature variations will not affect measurement results.

