

Kaiser engineering standardizes special machine construction with function-integrated profiles from Bosch Rexroth

Maximum design freedom: Kaiser engineering achieves this goal with the help of Bosch Rexroth. The task: The cost-effective construction of a robotic cell for coffee capsule measurement. The solution: Function-integrated profiles from the aluminum profile system.

Kaiser engineering GmbH has been a successful manufacturer of special machines for over 50 years. But each machine housing has individual requirements, as in the case of a robotic cell for coffee capsule measurement. In order to streamline the design, Kaiser engineering GmbH used the function-integrated profiles (FIP) from Bosch Rexroth AG's aluminum profile system for the first time.

Scalable, easy recognizable profile solution

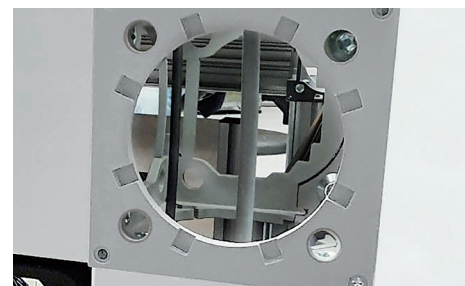
The function-integrated profiles are essentially stable construction profiles with an integrated cable duct. This automatically creates internal cavities for subsequent cabling during the construction of the frame. The appearance is unchanged and a clean machine design results. Even at the profile joints the cables are invisible as they are simply routed through the patented profile connections. Externally mounted cable ducts are a thing of the past. Kaiser engineering demonstrates the scalability of the design with other FIP-based constructions. These feature an identical structure in the company's own design, which makes them more easily recognizable. Kaiser engineering is thus not only positioning itself as a high-performance special machine manufacturer for its customers. The standardization also leads to more efficient constructions. FMS-Technik AG, a Bosch Rexroth Certified Excellence Partner, ensures the availability of the materials.

Key technical data:

- Robotic cell for measuring coffee capsules
- Dimensions: LxWxH 1500 x 1000 x 2000 mm
- Base (for integrating the control system): Standard aluminum profiles
- Robotic cell: FIP frame construction with black cladding

Advantages of the construction:

- Robust, vibration-resistant profile elements
- Can be combined with the aluminum profile system
- Internal cable guides allow a clean and uncluttered design
- Scalable, easy recognizable solution



▲ Profile connections with internal cable guides

Challenge

The cost-effective construction of a robotic cell for coffee capsule measurement

Solution

Function-integrated profiles from the aluminum profile system

Result

"The function-integrated profiles from Bosch Rexroth allow a high-quality, clean and uncluttered frame design in special machine manufacture that is easily recognizable."

Michael Karth, Marketing Project Manager at Kaiser engineering GmbH



▲ Vibration-resistant machine housing for robotic arm



◀ Direct link to the website