Customer:
Carl Zeiss Jena GmbH

Task:
Moving in a machine tool and a robot system on the upper floor of an optoelectronic production facility

Location:
Jena

Special equipment:
Crane platform with a load capacity of 16 tonnes for lifting loads to the upper floor

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Carl Zeiss Jena GmbH, Jena: Moving in a machine tool

Lifting a machine to the upper floor

A gentle landing at a height of 6 metres: ZEISS is a global technology leader specialising in optics and optoelectronics. Among other things, the company manufactures components and systems for medical, measurement and semiconductor technology at its Jena site. ZEISS needed to install a machine tool and a robot system on the upper floor, a task that the SCHOLPP team completed in just one day.

SCHOLPP has enjoyed a good working relationship with ZEISS in Jena for many years. Our Thuringian installation team has already carried out various machine move-ins and internal relocations in the company's optics and mechanics production departments.

This time, the team was tasked with moving in a DMG MORI CTX 800 machine tool and a robot system. The compact machining centre for complex turning and milling operations weighed a total of 13.5 tonnes. Due to its dimensions of 4.0 x 2.0 x 2.0 metres, bringing it in directly into the upper floor was the only option.

Special occupational safety regulations for installation at heights

The floor of the building opening was 6 metres above the ground. The team brought all the installation equipment with them for unloading, lifting and transporting, including tool containers, suitable sling gear and auxiliary equipment, a crane platform, a forklift truck, hoists and a Robot-40 heavy-duty dolly.

A truck-mounted crane was set up in front of the building to unload and lift the machine. The machine was loaded from the heavy goods vehicle onto the crane platform, which was then positioned exactly at the floor level of the building opening, without any gaps between them. Health and safety regulations are particularly important for move-in solutions at height. Our team securely installed fall protection and barriers to prevent falls upon their arrival.

Precision heavy-duty dolly: One-day installation completed on schedule

The Robot-40 heavy-duty dolly, on which the machine was placed, was positioned on the crane platform. This meant that it could be moved seamlessly from the platform into the building and straight to its final location. The self-propelled and flexible Robot-40 system made light work of the winding transport inside the building. The SCHOLPP fitters quickly positioned the machine between the existing plant with millimetre precision. The one-day installation job was completed on time.