

# Case Study

## Machine Tending



## Loading and Unloading of a CNC Lathe with Denz

Präzisions-Entwicklung DENZ Fertigungs-GmbH from Ottobrunn uses Robco's automation solution to tend an OKUMA SIMULTURN LU300-M with parts in small series.

The starting point for the automation solution was a multistage manual process for loading and unloading a CNC lathe.

Robco managed to solve the requirements as follows:

- **Defined supply** of the parts through an additional clipboard
- **Machine communication** through an additional button pushers and via relays.
- **No need for an automatic door** due to the possibility of opening doors with the robot.

Robco's automation solution enabled Denz to increase the manufacturing capacities and to implement an additional robot shift overnight. The robot took over exhausting manual tasks from employees, so they could focus on the other tasks like quality control. A 5 degree-of-freedom robot was sufficient to do work and therefore more cost efficient.

<12 months  
Until ROI

2 weeks  
For integration

5 DOF Configuration  
Instead of 6



"The Robco team was always available to answer questions. The personal contact was especially convincing."

**Dr. Till Vogels**

Managing Director

Präzisions-Entwicklung DENZ Fertigungs-GmbH



## Robco's Modular Industrial Robots

Our all-in-one robot solution takes over a multitude of work steps in production. Thanks to the modular configuration, Robco robots can be assembled exactly according to the individual requirements and easily modified for various applications.

"You are interested in an automation solution by Robco? I am happy to help! Feel free to **schedule a meeting with me.**"

**Franziska Herrmann**  
Business Development Manager  
Robco



## Use Cases & Technical Data

Our robots can be individually assembled with up to 8 modules. Depending on the configuration, the robot has a payload up to 20kg and reach a customizable range of up to 2m. The repeatability is 0.1mm and the velocity is 2m/s. Our robots are certified according to IP54 protection class and EN ISO 13849-1:2015.

The application areas for Robco robots are mainly machine tending, pick & place, palletizing, or dispensing.