

SINUMERIK 840D sl Optimization for SINAMICS S120 (NC-84SL-OPT)

Short Description

This course deals with the optimization of the drive system SINAMICS S120 in conjunction with the cnc SINUMERIK 840D sl.

Objectives

This course deals with the optimization of the drive system SINAMICS S120 in conjunction with the cnc SINUMERIK 840D sl. On completion of the course, you will be able to adapt the drives optimally to the machine tool. You will become familiar with the interaction of SINUMERIK and SINAMICS and will thus be able to make optimal use of the system's dynamics. This will enable you to increase the productivity of your machine.

Target Group

Commissioning engineers
Engineering personnel
Service personnel
Maintenance personnel

Content

Procedures for the optimization of feed drives in conjunction with SINUMERIK 840D sl
Control-loop structures of feed drives
Functionality of position, speed and current control loop
Usage of current control filters depending on the mechanical system
Optimization using step response and frequency response analysis
Usage of the diagnostic tool Trace for the recording of internal signals
Optimization of the positioning behaviour using feed forward control and jerk limitation
Adjustment of two interpolating axes with the help of the on-board circularity test
Introduction into the Automatic Servo Tuning
Practical optimization exercises on training devices

Prerequisites

Basic knowledge according to the course NC-84SL-SIP, NC-84SL-SK or NC-ONE-SIP, NC-ONE-SK.

Note

This course is also suitable for users of SINUMERIK ONE.

Type

Face-to-face training

Duration

5 days

Language

en