

Technician training: Basic mechatronics in service, Rapida

With this seminar, we offer a combination of mechanical and electrical training. Good technicians can then handle simple maintenance and service tasks on both mechanical and electrical components, even if they have not received formal mechatronics training.

Description

It is increasingly the case that maintenance personnel are required to possess both fundamental mechanical skills and extensive electrical knowledge. This can be considered all the more important for Rapida users, as both fields are very closely intertwined in our highly complex presses.

This seminar is tailored precisely to such needs. Fundamental mechanical knowledge is combined with basic electrical concepts, enabling the learning content to be conveyed in a suitably balanced form which is readily understandable to participants from all backgrounds.

All main components are explained and demonstrated to illustrate both their mechanical and electrical design and functions. The subsequent practical exercises serve to consolidate the initial insights and the participants learn to assess situations on the press from new technical perspectives. All training seminars are based on the latest Koenig & Bauer press technology.

Objectives

The participants acquire fundamental knowledge of the mechanical and electrical components of a Rapida press and are able to understand their interactions. They are familiarised with the installation locations and function principles of individual parts and can perform necessary setting and maintenance tasks on the components independently.

Prerequisites

Participants should have completed training as a mechanical/electrical/electronics/mechatronics technician or else gathered at least 5 years of corresponding work experience.

Some of the topics covered

Overview

- Electrical documentation of the press
- Control cabinet and console
- Functions, safety notes
- Console operating concept, including maintenance manager

Sensors

- Sensors throughout the whole press, purposes and function principles, installation locations

Sheet transport

- Timing of motions from sheet separation to the infeed
- Different infeed components, pneumatic and electronic (SIS)
- Printing unit substructure, impression cylinder and transfer drum, including grippers
- Printing unit tower, plate and blanket cylinders, clamping, ink key settings
- Optional: Overview of perfecting, mechanical function principle
- Lateral and circumferential register
- Delivery concept

Pneumatic systems

- Valve blocks, function principle of low-pressure air systems

Training methods

- Interactive face-to-face training with editable digital training documents.
- Practical exercises on individual components and training presses.
- Direct presentation without translation in German, English and Spanish. Further languages subject to prior agreement.

Important notes

- 5-day seminar
- Minimum participants: 3
- Daily seminar times are from 8:30 a.m. to 4:00 p.m. (possibly earlier on the day of departure).
- The seminar costs include refreshments during the seminar, lunch in our staff canteen and transfers to/from Dresden Airport or Dresden railway station.
- Upon request and depending on the selected hotel, a free shuttle can also be organised for the daily transfer to/from the campus.
- The order in which topics are discussed may vary.
- We ask all seminar participants to bring their own standard work clothes and safety shoes when attending training.

Contact for appointments

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