

# ZX5 Maintenance Training

Maintenance Training Schedule for ZX5

## Contents

Prerequisites

Advanced Walkround

Comments

## Prerequisites

Carry out ZX5 Operator Training

## Advanced Walkround

### Module A - Infeed

- Laser sensor
- Infeed wheel pressure and clutch
- Roller bed lift speed setting (all modules)

### Module B - Machining Centre

- Width Sensor
- Clamp naming, pressures and speed
- Datum hole drilling
- Spindle plunge speed and sensors
- V notch damping and support
- Y axis position, function and datum sensor
- Z axis position, function and datum sensor
- R axis position, function and datum sensor
- VW axis position, function and datum sensor
- Valve positions
- Z axis support assembly
- Guard door functions

### Module C - Machining Outfeed

- X axis position, function and datum sensor
- Beam function and movement
- Gripper Function

### Module D - Transfer Table

- Crank systems
- Clutches
- Forward / Back sensors

### Module E - Saw Infeed

- Gripper Function
- Channel bar function and pressure regulation
- SX Axis position, function and datum sensor
- Side door axis slowdown

### Module F - Saw

- Front and top door interlocks
- Top Clamp - pressure switching, manual height adjustment, chip deflectors
- Side clamp and centralising and pressure regulation

- Y notch facility with centre point offset
- SY Axis position, function and datum sensor
- Z Support Block and positioners
- Eject Table speed regulation
- Eject push speed regulation
- Cut speed regulation
- Cut height mid position sensor location
- Safety Gate function
- Conveyor function
- Extractor function

#### Drives and Controls

- Overload fuse locations
- Beckhoff PC
- EtherCAT introduction
- IO Slices
- Servo Drives
- EtherCAT IO Boxes
- EtherCAT Analogue boxes
- Yaskawa Inverter
- Eaton Inverters
- Camera Viewing and download

#### Maintenance Software

- Password setting
- Testing IO
- Testing Servo Drives
- Parameters
- Axis Parameters
- Clamp Parameters
- Understanding Output Timings Tab
- Teamviewer Host
- Yaskawa Drive Wizard
- Mapped drives and potential errors

#### Batch File Familiarisation

- Load Lines
- Piece Lines
- Operation lines
- Printer file

#### Link To ZX5 Manual