LWM expert training

Seminar:

Expert training YW30/52 with Laser Welding Monitor system (LWM) and Head Monitor (HM)

Target group:

Commissioning engineer, chief, process managers, quality managers

Objectives:

Gain all the skills to install the LWM system in conjunction with a YW30/52 laser welding head and, if necessary, make corrections in the parameterization as well as create configurations and new reference curves.

The function of the software will be practiced with your original data on training LWM system notebooks.

Alignment, adjustment and maintenance of the sensors, the head monitor and the welding head.

Duration:

3 Days

Number of participants:

max. 6 participants

Seminar content:

1. System

a. System overview
b. HW control (cable, UPS, sensor, HM etc.)
c. Connection of sensors
d. UPS
e. Interfaces to the master system (PLC, Robot, etc.)
f. Adjustment of the sensors and the amplification gains
g. LWM configurations and PLC program structure

2. Software

a. Definition of terms
b. Timing diagram
c. Program structure
d. Serial number transmission
e. Operation of the LWM system
f. Application examples
g. Error processing
h. Software operation
i. Post processing
j. Parameter wizard
k. Error probability
l. Step Teach-in
m. Result query
n. Backup / Restore
o. Remote Control

3. Practical exercises (LWM with SPS)

a. First commissioning (see LWM installation flowchart)
b. LWM „ini“ Files (system configuration)
c. PLC interface control (Gateway, TCP/IP, etc.)
d. Program mapping
e. Configuration preparation
f. Adjustment of the sensors / adjusting the amplification gains
g. Automatic mode
    - Switch off the automatic mode
    - Access in automatic mode
    - Configuration switch
h. Set LWM parameters (areas, references)
i. Evaluation of results
j. Parameter wizard
k. Backup / Restore
l. RAID System / Recovery USB Stick / Bios Settings
m. Maintenance

4. Practical exercises in the laser cell (real welding tests with errors simulation)

a. Error simulation and analyse the effects on sensor measurements.

End of seminar

After successful completion of the course, a certificate is issued.

Questions

For further information or questions please contact Mr Iannotta at:

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