

Printouts from Ball Scanners with Central Units CU-TS

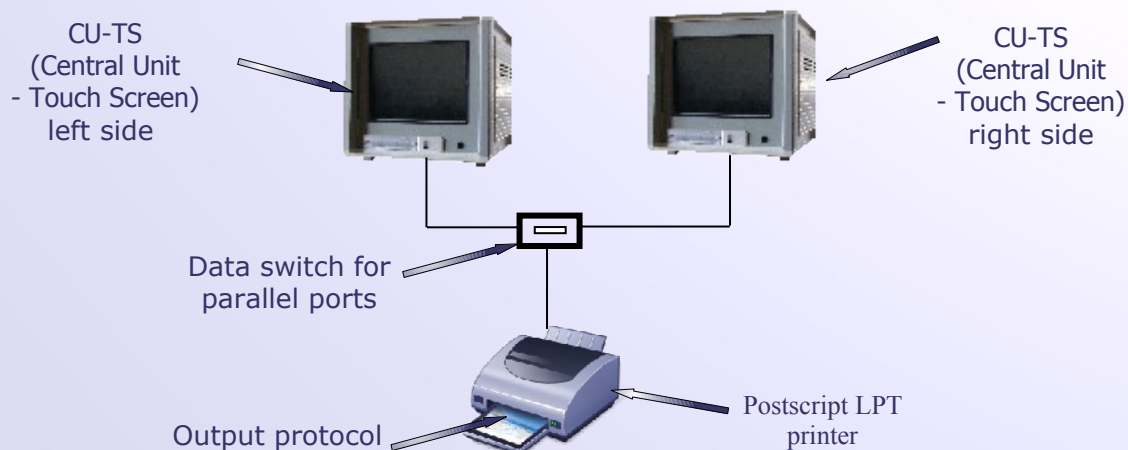


In view of customers' requirements to show parameter settings of a Ball Scanner for previously checked lots of balls we have designed a system which makes it possible to do this task.

The system consists of:

- software suite for CU-TS (to support the printing)
- data switch for the parallel ports and a connecting cable set
- postscript LPT printer

Wiring diagram - please see picture below:



This printout makes it possible to print out an OUTPUT PROTOCOL (separately for the left and right sides of the Ball Scanner) which includes as standard (see APPENDIX) the following information:

- Name of operator, number of lot, date and time of last set-up, date and time of print.
- Identification of Ball Scanner and Central Unit CU-TS.
- Set-up parameters of mechanical part of Ball Scanner (diameter of balls, surface speed of drive disc) and state of exits from the machine (quantity of balls OK, EOT and ECT)
- Basic information about defectometric eddy current system (identification of board ECT-HS, frequency of probe ECT used, core diameter of probe ECT used and information about mechanical setting).
- Values of set-up parameters of all ECT methods employed by the defectometric system.
- Basic information about defectometric system EOT (identification of board EOT-TS and calibration).
- Values of set-up parameters of all EOT methods employed by the defectometric system.
- Graphical running scan illustration of selected defectometric methods (selection of three last scans). Possibility to select any detail and to zoom into graphs.

On a basis of an order placed with us it is possible to redesign the protocol graphically, (e.g. to locate within it a logo of a customer's company), to enter other information, etc.

All CU-TS Central Units supplied from 2009 onwards have as standard a printout choice. The printer and the data switch with cables are supplied as special accessories. The CU-TS Units supplied up to 2008 (incl.) can be additionally supplied with this facility or provided with this system only on the basis of a special order.

Additionally, Ball Scanners supplied by us in the past, which have got the original electronics (Main Housing of Electronics) with mechanic buttons, can be provided with the new generation electronic product line of the CU-TS.



Printout / OUTPUT PROTOCOL from a Ball Scanner with the Central Unit CU-TS

APPENDIX

BASC 1014

Name - Operator: John DOE
Lot #: 12 ABC 3456
Set-Up - Date and Time: 29/08/2008, 10:00:40
Printed - Date and Time: 29/08/2008, 10:02:51
BASC 1014 Prod. No.: 0XX-200X (sw: 08.03 - 06.05)
CUTS Prod. No.: 07-010 (SW: MP0 060806 07.03 - MP1 060806 07.03)



- Set-Up - Mechanical Part -

Diameter: 14,287mm STD Speed - Drive Disc: 1,75 m/s
Counters - ALL: 2 OK: 0 EOI: 1 ECI: 1

- Set-Up - Defektometric System -

ECT HS 02 v06.06
Frequency: 300kHz, Probe ECI: 1,0mm, MAX - 1696 L MIN - 1611 R

ECT1 - Gain: 30,0dB, Phase Selection: 120deg., Sensitivity: 60%(ON)
ECT2 - Gain: 20,0dB, Phase Selection: 30deg., Sensitivity: 50%(ON)
EVI - Gain: 6dB, Sensitivity: 50%(ON)
ECT1n - Sensitivity: 50%(ON)
ECT2n - Sensitivity: 50%(ON)

EOI IS 02 v07.03
Optics - Calibration: Reflection MAX - 460, Reflection MIN - 325, Probe MIN - 70
EOI1rel - Sensitivity: 50%(ON)
EOI2 - Sensitivity: 45%(ON)

