

**Technical data**

Rotary Index Table

Dimensions L/W/H	1500 x 1600 x 2000 mm
Weight	ca. 850 kg
Design	Rundtaktautomat mit 6 Stationen
Realization	ESD-gerechter Steh-/Sitzarbeitsplatz
Compressed air	6-8 bar
Electrical connection	400 / 50Hz, 16A

Measurement unit

Dimensions L/W/H	800 x 600 x 2100 mm
Weight	ca. 300 kg
Electrical connection	230 VAC / 10 A einphasig
Operating system	Windows XP
Test sequenzer	Agilent TestExec SL
Database	MySQL lokal oder auf Server



# Rotary Index Table for Antenna Amplifiers



**Test systems**

Assembly automation

Board handling

Robotics

Temperature testing chambers

Inline tunnel systems

Markier- & recognizing units

Lean Production

**Measurement technique**

Run-In/Burn-In-Systems

Vision Systeme

Electrical Safety Compliance Test

AC Power Sources

Advanced Drawer Fixture ADF

Multiport Testset

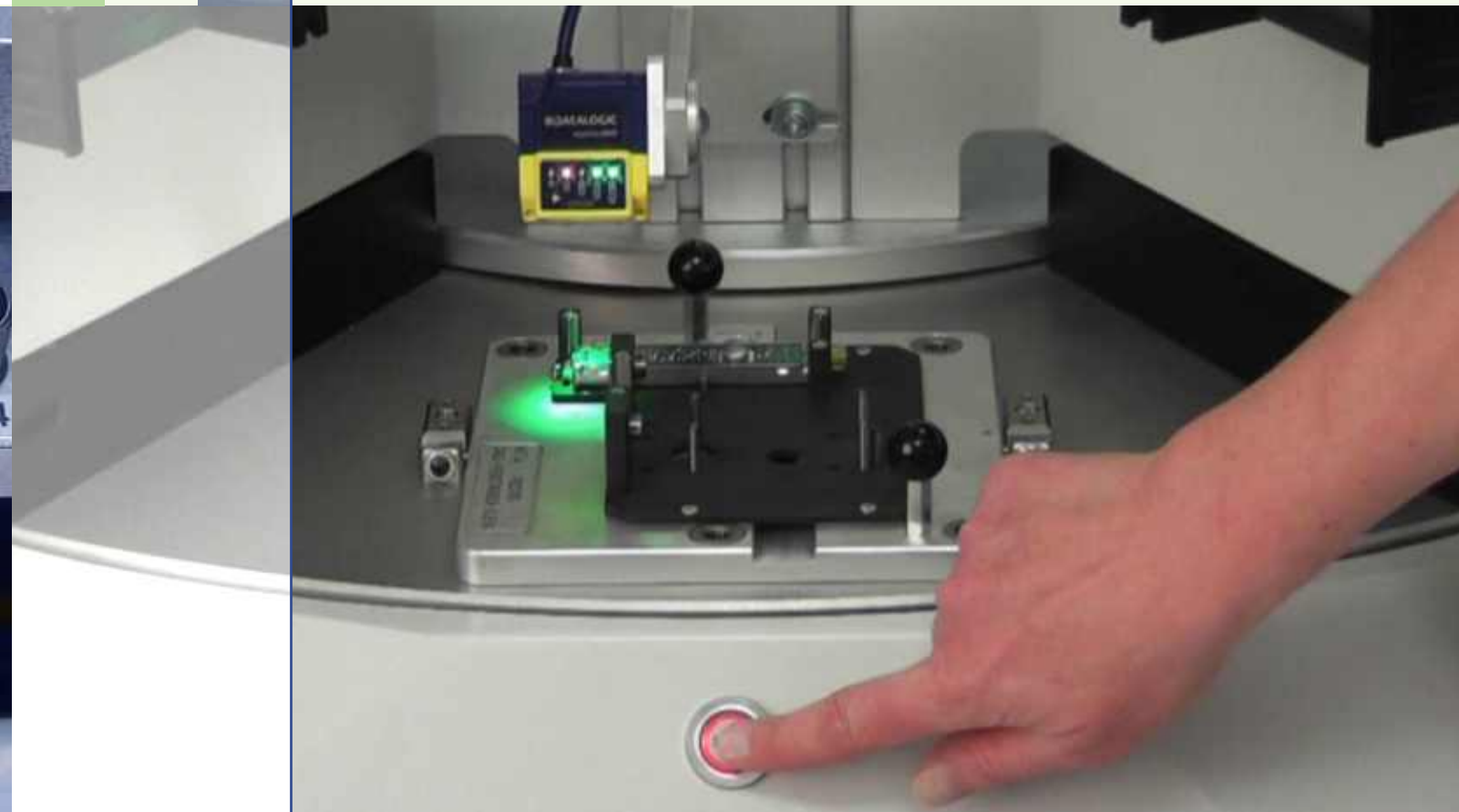
LXI-(K)it

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# ENGMA<sub>T</sub>EC Rotary Index Table for Assembling and Testing Antenna Amplifiers



The system is designed according to the rotary indexing method as a test station with 6 workstations. This solution approach provides unbeatable flexibility along with competitive total cost for complex testing tasks with higher quantities and diversity of variants. The overall concept comprises a modular, extendible system of four interlinked rotary tables.

With its easily exchangeable components, the system is especially suitable for the production of different product variants. Assembly and marking activities along with testing tasks, such as functional tests, vision systems, ICT/boundary scan and HF test or parts ejection can be combined as required.

The advantage of the rotary index table design is also that it requires little space.

- ⊕ A modular, extendible test system allows a high level of flexibility
- ⊕ Production of different product variants with minimum setting-up time
- ⊕ EOL test, cover assembly, data matrix code scanning, laser marking
- ⊕ Easily exchangeable coded fixtures and carriers
- ⊕ Low space requirement through compact design



## LXinstruments test stations

Different modular tests can be performed at the individual stations of the rotary index table, for example:

- ⊕ Testing the coded FAKRA plugs (color control)
- ⊕ Measuring the quiescent and operating currents
- ⊕ Testing the HF signal paths by means of HF network analyzer and LXinstruments HF switch units
- ⊕ Verifying the diversity systems
- ⊕ Testing the remote-controlled central locking and keyless go
- ⊕ Flash programming of test pieces

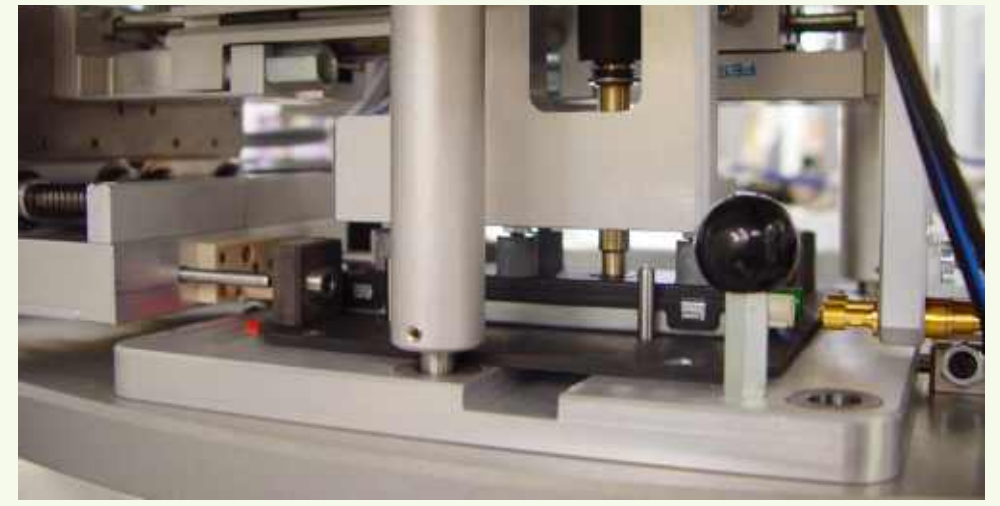
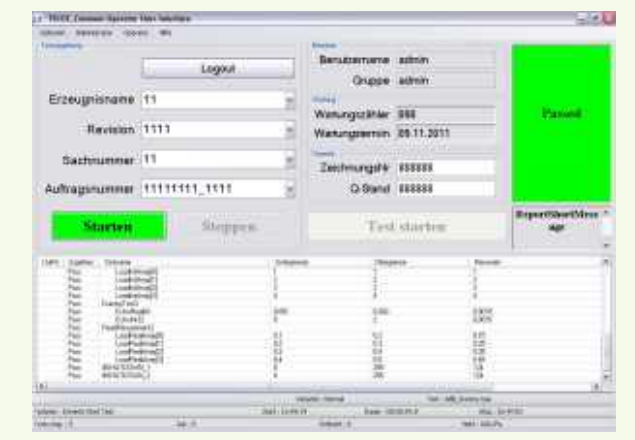
To optimize the test period, the test tasks are distributed over several stations of the rotary index table.

## Test sequences

Definition of test sequences by NI TestStand or Agilent TestExec SL. Existing elementary test steps are lined up and parameterized.

The knowledge of a programming language is unnecessary for the generating of test sequences. Users can generate or change test sequences by themselves at any time.

The implementation time is significantly reduced by the use of a test sequencer. Further on the reusability of the operating results clearly increases.



## Designed as ESD-compatible standing/sitting workplace with two-hand safety release:

- Station 1 Scanning the data matrix code on the PCB for traceability, cover assembly
- Station 2 Testing the coding of the high-frequency plug, screw length sensing, clicking the cover into place
- Station 3 Electrical tests: Contacting the HF plug, the three-pole "MQS" connector and the grounding screw
- Station 4 Reserve
- Station 5 Laser marking of test pieces
- Station 6 Marking check, unloading the fail parts with a vacuum gripper

## Traceability, process interlocking and control software

All stations of the rotary index table operate independently and communicate with each other via TCP/IP. The PLC controls the mechanical system and logs the test piece on the respective station by means of the serial number. The stations read all test and marking parameters from a MySQL database and then save the test results there.

The software which is available in several languages ensures complete locking of the production process from surface mount to AOI, ICT, assembly, final test, laser marking and packaging.

In the event of operational breakdown, e.g. caused by a power failure, an emergency stop etc. it is ensured that no parts are conveyed as good parts that have not been tested.