Turn Table for 19" Rack and Table Top Integration for Electronic Assembly Tests

The Flexible turn table KT-FTT represents a new type of handling system for the integration into 19" racks. Its compact dimensions of 11+1 U allow the use of 12U table housings, facilitating the execution of various applications.

Data Sheet

Features

- Turn table for 19" racks
- Assembly into 12U table housings
- Seating, standing or laboratory place
- Any number of freely programmable contacting positions
- Product-specific exchangeable fixture kits
- Low handling time
- Integrated PLC with Ethernet-interface
- Compressed air is not neccessary

Field of Applications

- Electrical Functional Test (FCT)
- In-Circuit Test (ICT)
- AOI Test

The Flexible Turn Table KT-FTT represents a new type of handling system for the integration into 19" racks.
Its compact dimensions of 11+1 U allow the use of 12U table housings, facilitating the execution of various applications.

The operating concept allows a highly efficient activity with very low handling times. While testing, the operator can extract and reload components on the front panel. Operating the system is extremely easy, for example through a 1U key-bar including an Emergency Switch-Off.

The turn table can be moved manually or servo-electric. The system operates very fast; when set on automatic mode, a 180° turn is executed in less than one second. The integrated security system offers maximum security for the operator as well as for the device.

DUT-specific fixture kits are mounted into the system by inserting them in the front for easy access.

One of the special features is the step less, servo-electrical contacting-lift, from above, as well as from the bottom. This allows cost-effective testing of various products without the need of extensive reconstructions. Combining Function- and In-Circuit-Tests can be easily obtained due to the step less lifting mechanism. Vertical lifts are secured against accidental dropping.

The system contains sufficient space for scanners and marking systems. The slots also allow high upgrades for camera systems, RF-chambers or optional auxiliary electronics.

Measurement signals can be controlled either through a drag chain or horizontally, using a pylon block.

Moving measurement wires are not necessary if you use a horizontal interface. The system does not depend on pressurised air.

Technical Data

Contacting Lift:	60mm < 1s
Number of Testpoints (3N):	
Component Dimensions (max):	L x W: 280mm x 150mm , Component height top 50mm, bottom 10mm
Controller:	Integrated PLC with Ethernet-Interface

Integrated ABex Test System

One of the outstanding features of the FlexCell NT is the direct integration of the test system. This integrated ABex-based system is equipped with all necessary instruments and switching boards depending on the specific test requirements for functional test and/or in-circuit test, AOI test, boundary scan test as well as in-system programming.

Integral component of the ABex design is a signal backplane and a powerful terminal module concept, allowing cableless signal interconnections across all instruments and system modules. Depending on the test configuration a multiple stage contacting lift can be implemented if necessary.

The test system is vertically integrated into the handler and posesses a cableless DUT interface to the DUT-specific fixture kit of the handler.

Fixture Kits

An Exchangeable fixture Kit consists of

- 2x Inlay for turn table, one fixture kit top and one below
- Contact carrier plates are mounted floating and are held preceding in the inlay
- Position and presence verification by means of a shine-through light barrier
- Auxiliary electronics may be placed on the fixture kits