

**Y RED**

WWW.Y-RED.COM

# Test Solutions

Modular Test Contactor System

- Volume Test
- Hinged Type System

[www.yamaichi.eu](http://www.yamaichi.eu)

*Another Dimension*

# Modular Test Contactor System

**YRED** is a unique contact unit design with top side access which enables the customer to exchange the insert without disassembly of the complete test setup. Our designers implemented many useful features for simple operation with high reliability and high insertion/extraction cycles.

## RAPID

design and manufacturing guarantees that our customers are ready for test when the silicon arrives. The “time to customer” is just 3-4 weeks between inquiry and product delivery.

## EFFICIENT

test hardware utilisation is the key for customer’s success. The easy attachable screw-on hand test cover combined with an overall poka-yoke design helps to minimize changeover times.

## DURABLE

robust design and excellent electrical performance leaves nothing to be desired.

**Product Range** Depending on the package size, Y-RED is divided into 5 sub-families:

	NANO	MILLI	DECA	MEGA	GIGA
<b>Package Dimensions</b>	≤ 6 x 6mm	> 6 x 6mm / ≤ 12 x 12mm	> 12 x 12mm / ≤ 22 x 22mm	> 22 x 22mm / ≤ 35 x 35mm	> 35 x 35mm / ≤ 45 x 45mm
<b>Cover Type</b>	TWIST	TWIST	TWIST and HPC	High Pressure Cover (HPC)	High Pressure Cover (HPC)
<b>Temperature Range</b>	Standard Temperature = -40°C to +125°C / High Temperature = -55°C to +150°C				
<b>Package Types</b>	BGA / LGA / QFN				
<b>Device (Pitch)</b>	≥ 0.4mm				

## High Performance Spring Probe Pins

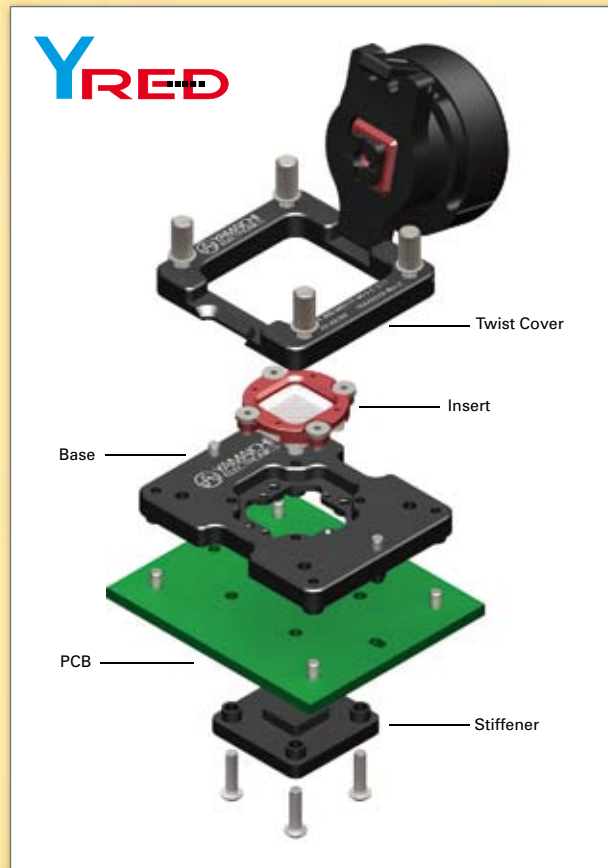
- Excellent reliability
- Low contact resistance <50mΩ
- Outstanding mating cycles 500K



- Ultra low pitch capability
- Crown and conical plunger styles
- Standard and high temperature range

## Socket Features

- Top side removable insert
- Spring loaded cover
- Poka-Yoke design
- Tool free cover mounting
- High standardised single parts enables high insertions
- High class materials ensures outstanding robustness



## Twist Cover Type Socket



Twist cover with simple one-hand operation e.g. defined and parallel closing mechanism in order to prevent any stress and over loading on the device.



High Pressure Cover (HPC) for smooth and consistent pressure on high grid pattern devices.

## High Presssure Cover Type Socket



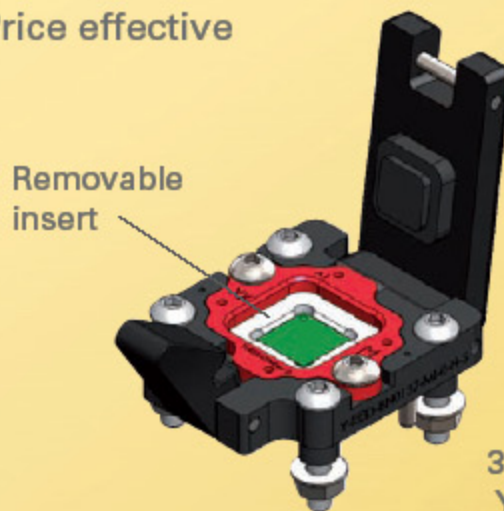
# Hinged Type System



**YRED** Hinged Type Socket enables various lab and evaluation tests. The manual type socket comes with removable insert and high performance spring probes which guarantees first-class test results.

## Socket Features

- Manual type
- Compact design
- Outstanding performance
- Price effective



3D example of type Y-RED "MILLI"

## Applications

- Initial Lab-Test
- Qualification
- Failure Analysis
- Burn-in / HAST
- Others

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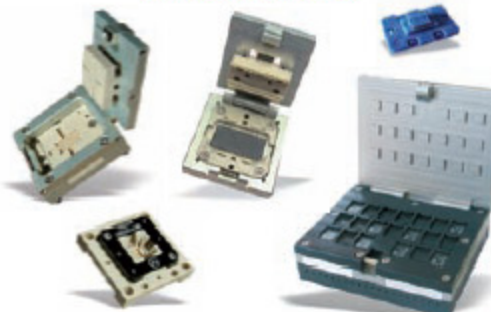
## Other Test Solution Products

### Test and Burn-in



Our range includes: QFP, SOP, QFN, SIP, ZIP, DIP, PGA, SOJ, PLCC, BGA, BGA/CSP/LGA, Receptacles etc...

### Test Contactors



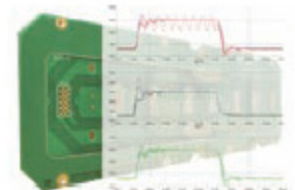
Spring Probe contactors for manual and automatic handling systems, pre-test and HAST applications

### Spring Probe Pins



Wide variety of dimensions and plunger types

### PCB Design



PCB design on LAB level and Test Applications (ATE)