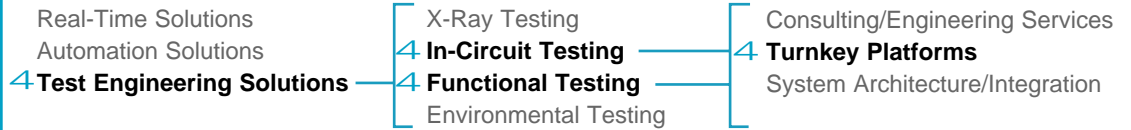




Mindready Yelo ATE Systems



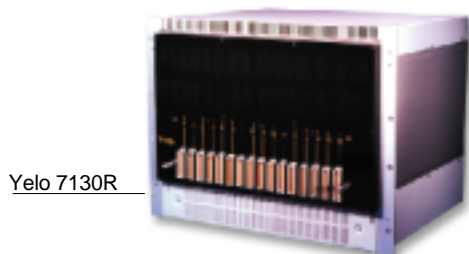
Market leader in compact ATE systems, Mindready Yelo systems have long set the definition of cost-effective test. Mindready's competitive advantage rests on its ability to provide its customers with basic versatile ATE solutions that can be upgraded at any time to adapt to changing customer products. Complementing its ATE systems portfolio, Mindready offers a wide range of test applications including in-circuit, functional and telecommunications testing that can be performed at the board level or at the final product level. Mindready has also developed in-depth expertise in automation and product handling. From fixturing to complete turnkey solutions, Mindready has earned a reputation as a first-choice provider of ATE Solutions.

Mindready Yelo ATE Systems

Flexibility

Mindready Yelo systems range from small bench top units up to full standalone systems. An expansion path is available for most systems right up to the maximum of 1080 test nodes. Fixturing can be bed of nails, dual height (to gain maximum benefit from combined in-circuit and functional testing), via edge connectors or fully automatic for final testing of cased products. The user can choose from a large range of measurement, stimulus and routing cards that can simply be plugged into Mindready Yelo systems. Software tools virtually eliminate in-circuit programming while functional applications use industry standard C language, enhanced by high-level software tools.

Mindready Yelo ATE systems are configured to suit and to adapt to the customer's application by allowing the purchase of only the facilities required, keeping costs to a minimum. Moreover, running costs are further reduced with the use of flexible fixturing and the programming simplification provided by software tools.



Yelo 7130R



Yelo 7130

Low Cost of Ownership and Support

Mindready Yelo ATE systems' principle of cost effective test extends throughout the life of the test system. Maintenance is available in a wide range of packages including remote modem-based support and training for in-house maintenance. Most resources are on plug-in cards. Technical support is available from the various Mindready locations. The flexible range of fixtures includes low cost starter fixtures and cassette systems, which save money when multiple PCBs are to be tested.



Yelo 7125



Yelo 50



Yelo 7130B

Mindready Yelo Test System Models

	Yelo 50	Yelo 7125	Yelo 7130	Yelo 7150
No. of User Full Test Slots	2	4	15	15
No. of Measurement Slots	0	3	3	3
Central Measurement System	Option	Option	Option	Option
Bed of Nails Fixture Interface	No	Standard	Standard	Standard
Built-in User Power Supplies	No	Standard	Standard	Extended
Program in C with Help Tools	Yes	Yes	Yes	Yes
Expands to Next Model Up	No	Yes	Yes	Not applicable
Cabinet Options	3U half width	9U table top	9U table top, in bench or rack	9U table top, in bench or rack

Benefits of Mindready Yelo ATE Systems

- ↳ Highly cost effective automatic testing
- ↳ In-circuit and/or functional board testing
- ↳ Telecommunications testing of PCBs or final products
- ↳ Flexible architecture for easy expansion
- ↳ Reusable as new products are developed
- ↳ Automatic in-circuit programming from CAD
- ↳ Menu-based functional programming
- ↳ Flexible fixture range for simple and complex applications
- ↳ Dual height fixtures optimized to combine in-circuit and functional testing
- ↳ Ideally suited to full test automation
- ↳ Minimal starter systems expandable to complex test solutions

Test Resources Available

- ↳ Digital voltmeter/in-circuit system
- ↳ Signal/waveform generation, timing
- ↳ Telecommunications simulation
- ↳ Custom circuitry through prototype cards
- ↳ Digital test lines
- ↳ Relays & signal routing cards
- ↳ Programmable power supplies
- ↳ IEEE-488 and other PC controlled instruments can be added

Test Fixtures

Mindready's flexible range of test fixtures provides solutions to a wide variety of test problems.

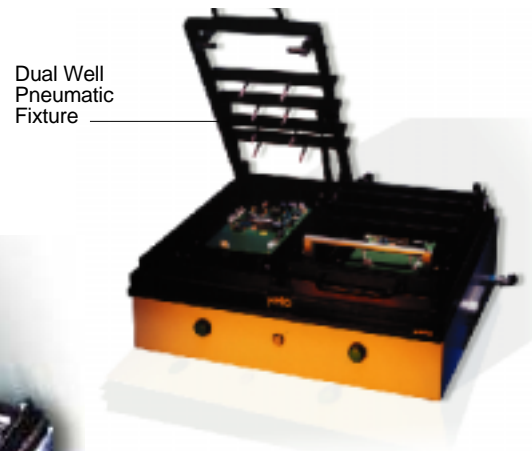
Standard fixtures are complemented by dual height, cassette systems and full automation including vision system, button pressing and product handling. Mindready offers several types of bed of nails fixtures for Mindready Yelo ATE systems as well as other test platforms. For low budget testing, the mechanical fixtures are effective up to 100 nodes. The pneumatic range includes built-in dual height testing allowing combined in-circuit and functional testing without further handling. The cassette version of the pneumatic fixtures reduces costs and storage over multiple PCBs as only the inner part of the fixture has to be repeated. Different sizes of fixtures are offered to accommodate all sizes of PCBs. Mindready also specializes in automatic fixtures, where products are handled automatically including the pressing of buttons, operation of switches and the use of vision systems to check features and displays. Full mechanical, electronic and software design facilities are available for this service.

PCB Size (max)

Mechanical and pneumatic (standard):	380mm x 280mm	15.0 x 11.0 inches
Mechanical and pneumatic (large):	560mm x 300mm	22.0 x 11.8 inches
Dual Well:	240mm x 255mm	9.4 x 10.0 inches
Cassette:	350mm x 215mm	13.8 x 8.5 inches



Telephone Test Fixture



Dual Well Pneumatic Fixture



Cassettes Fixture

Benefits of Test Fixtures

- 4 Cost effective fixtures for simple and complex applications
- 4 Pneumatic range offers dual height for combined in-circuit and functional tests
- 4 Mechanical fixtures for lowest cost in simple applications
- 4 Cassette systems reduce cost and storage for multiple PCBs
- 4 Reduced labor time with full automation fixtures including button pressing, product handling and vision systems
- 4 Replaceable probe plates reducing costs as products change
- 4 Custom design service allowing less engineering efforts from the customer

Test Automation

Alongside bed of nails fixturing, Mindready has considerable experience in test automation. This can take one of two forms. For testing products once they have been assembled in their casing (final testing), techniques include automatic operation of buttons and switches, acoustic testing and vision to check features and read displays. This can often completely automate end of line testing with a significant reduction in labor. The other form of automation involves reducing the manual handling of products. This ranges from conveyor systems to automatically mating a series of connectors to the product under test. Mindready has many years of experience of full custom mechanical design in product automation.



Automated Car Component Test Station

Turnkey Solutions

Mindready is equipped to provide test design and programming across its various operations centers and offers turnkey solutions to its customers from assisting in design for test and manufacture, in-circuit and functional programming, fixture design, commissioning to full support. Mindready can handle any part of the implementation process right up to complete turnkey installations.

Why Mindready?

- 4 Proven track record in providing cost effective test solutions over ten years
- 4 Complete test solution provider: from Mindready Yelo ATE systems, fixtures (standard and customized), applications programming to full support
- 4 International presence with operations centers in North America and Europe
- 4 Full custom design service including mechanical design of automated fixtures and product handling
- 4 List of blue chip clients across many industry sectors including Nortel, Psion, Solartron and FireLite (Honeywell)
- 4 In-depth experience in various sectors from telecommunications, automotive, medical, computing to defense
- 4 All projects managed in compliance with ISO 9000 standards

Client Testimonial

"We have used Mindready Yelo compact ATE systems for both in-circuit and functional testing across a number of sites and found that they offer unparalleled cost effectiveness combined with the flexibility to change with product evolution. Mindready's ability to provide turnkey test solutions, including complex mechanical aspects, has allowed us to rapidly gain the benefits of increased automation."

Tam Gilbertson, Chief Test Engineer, Solartron Mobrey Ltd.

Contact Us

Mindready Solutions Inc.
Operations Centers

North America

1030 Swabia Court
P.O. Box 14629
Research Triangle Park
NC 27709-4629 USA
Tel: (919) 474-2811
Fax: (919) 474-2835

2800 Marie-Curie Avenue
Saint-Laurent, Quebec
Canada H4S 2C2
Tel: (514) 339-1394
Toll Free: (877) 636-1394
Fax: (514) 339-1376

Europe

Maple House, Aspen Way
Yalberton Industrial Estate
Paignton, Devon
United Kingdom TQ4 7QR
Tel: +44 (0)1803 408 876
Fax: +44 (0)1803 408 869

75 Belfast Road
Carrickfergus, Co. Antrim
BT38 8BX
Northern Ireland
Tel: +44 (0)28 9335 7300
Fax: +44 (0)28 9335 7305



For more information:
infotest@mindready.com
www.mindready.com