

# TRIAx2015

IMPACT TESTING SYSTEMS

NOW WIRELESS!

**Surface Impact Test Systems**

JUNE 2018

# TRIAx2015

IMPACT TESTING SYSTEMS

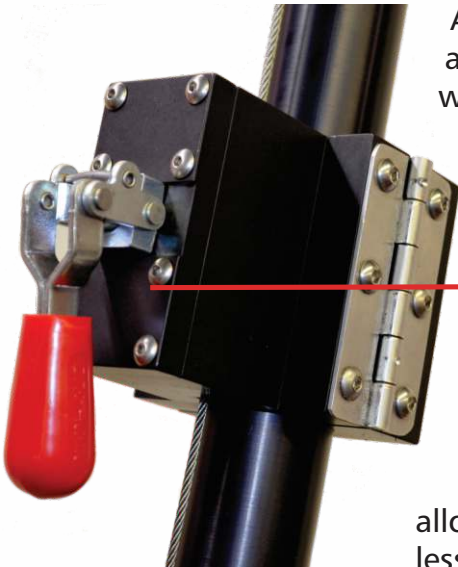
NOW WIRELESS!

## Surface Impact Test Systems



The TRIAX 2015 system is the latest evolution of playground surface impact test systems fully compliant with American (ASTM F1292) European (EN1177) and many other (CSA, AUS) standards for the measurement of shock (G) and head injury criteria (HIC) values as would be experienced during an impact of a head on a surface system. Since 1988, continuous engineering development combined with ongoing participation in worldwide standards development has resulted in a device that produces accurate and consistent measurement results in both field and laboratory use.

Accurate and repeatable measurements require accurate fall heights, which are provided by TRIAX 2015 tripod. Using the standard set of legs fall heights of up to 12 feet can be accommodated, extending to 14 feet with an optional additional set of leg sections.



A manually operated cable clamp allows the head form to be raised and locked at the desired height without the use of a ladder, or without climbing on structures, and can cover the entire use zone. This is important in testing areas around swings where the use zone extends far beyond the frame of the swing.

Snap together quick connect couplers for the tripod leg sections speed setup time allowing operators to get more work done in less time.



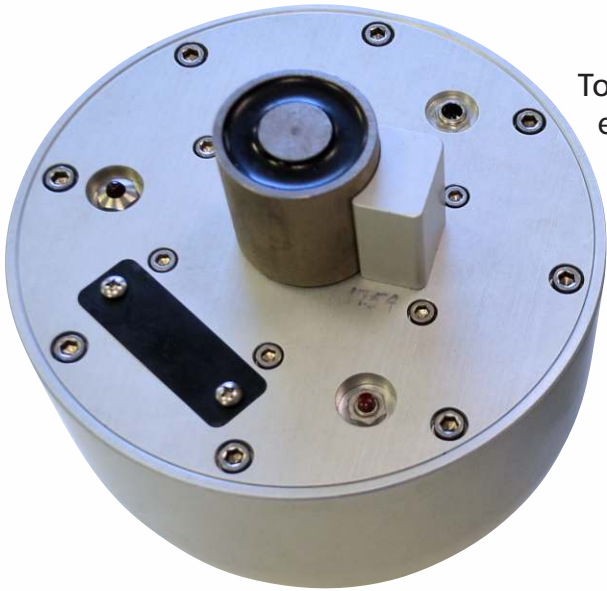
# TRIAx2015

IMPACT TESTING SYSTEMS

NOW WIRELESS!

## Surface Impact Test Systems

### TRIAx 2015 Head Form



To further ensure accuracy and repeatability an electromagnet hold and release system prevents errors caused by operators manually dropping the head form, influencing the fall trajectory. This ensures that sequential drops are from the same height and to the same point on the surface.

### TRIAx 2015 Data Unit

The TRIAX 2015 dedicated hand held data unit connects wirelessly to the head form and collects and stores up to 1000 drop tests on a standard memory card. Use of a dedicated device provides data integrity and eliminates the need to download, install and configure apps. In addition a dedicated hand held unit guarantees continued successful operation of the TRIAX 2015 system long after current crop of cellular phones and tablets have long since been discarded.



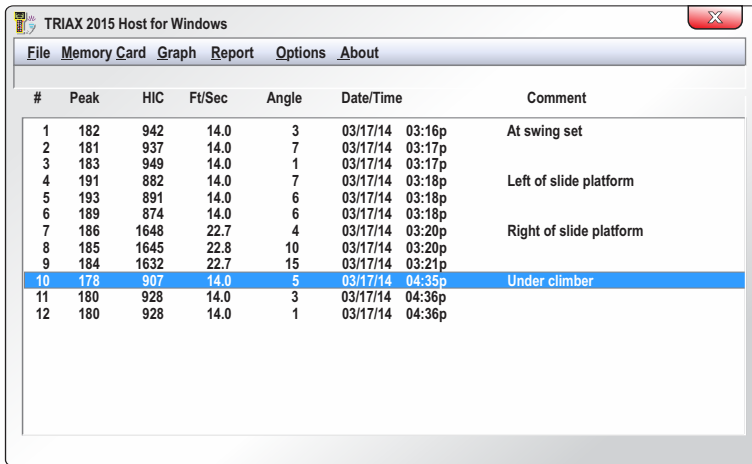
# TRIAx2015

IMPACT TESTING SYSTEMS

NOW WIRELESS!

## Surface Impact Test Systems

### TRIAx 2015 Host Program



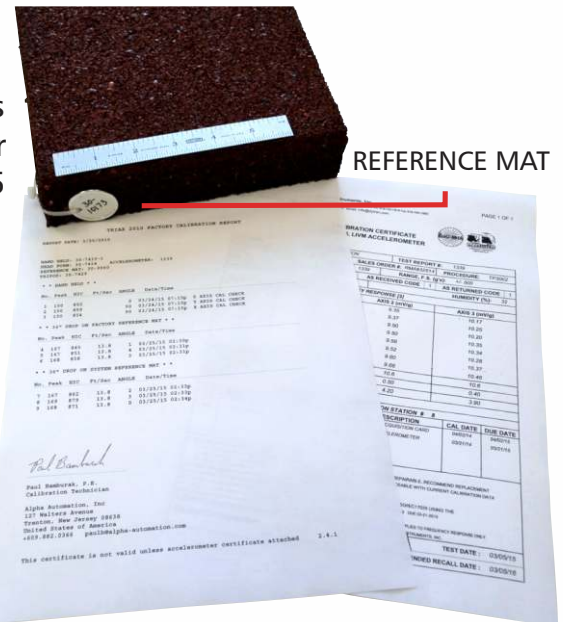
#	Peak	HIC	Ft/Sec	Angle	Date/Time	Comment
1	182	942	14.0	3	03/17/14 03:16p	At swing set
2	181	937	14.0	7	03/17/14 03:17p	
3	183	949	14.0	1	03/17/14 03:17p	
4	191	882	14.0	7	03/17/14 03:18p	Left of slide platform
5	193	891	14.0	6	03/17/14 03:18p	
6	189	874	14.0	6	03/17/14 03:18p	
7	186	1648	22.7	4	03/17/14 03:20p	Right of slide platform
8	185	1645	22.8	10	03/17/14 03:20p	
9	184	1632	22.7	15	03/17/14 03:21p	
10	178	907	14.0	5	03/17/14 04:35p	Under climber
11	180	928	14.0	3	03/17/14 04:36p	
12	180	928	14.0	1	03/17/14 04:36p	

The TRIAX 2015 system includes a PC application that speeds the creation and archiving of test reports, which show all impact test data along with a date/ time stamp and user comments. The test results cannot be altered, particularly important to risk managers wanting to ensure data has not been tampered with should a legal action commence.

### TRIAx 2015 Calibration Certificate

The TRIAX 2015 is a sophisticated electronic measuring instrument. Like all electronic instruments, periodic factory calibration (at most once every two years) is required to ensure proper operation and compensate for variation inherent in all electronic devices. The TRIAX 2015 system has a full factory calibration program in place and operating now. As with a new system, recalibrated systems are supplied with a calibration certificate verifying that the calibration was completed as required, and should be supplied to users of testing services to prove compliance with standards.

To ensure proper operation between factory calibration the TRIAX 2015 system is supplied with a reference mat that has been tested at the factory. Before each use the operator performs a set of drops on the reference mat and confirms that the results match those obtained by the factory when the TRIAX 2015 system was freshly calibrated. If deviation beyond acceptable limits is observed this alerts the operator that the system needs attention and possible repair. The reference mat protocol prevents an operator from performing tests which would be inaccurate and a waste of time.



# TRIAX 2015

IMPACT TESTING SYSTEMS

NOW WIRELESS!

## Surface Impact Test Systems

### TRIAX 2015 Family

As part of the TRIAX 2015 system several other instruments for surface and impact testing are available:

TRIAX 2015 wireless A-MISSLE System for testing of playing surfaces (football, soccer). All the features of the Tripod system except the tripod and hemispherical head form are replaced with a guide tube and cylindrical impactor compliant with ASTM F355 Procedure A standard.



TRIAX A-MISSLE



### TRIAX 2015 Swing Seat Impact Tester



Free hanging spherical head form for impact testing of swing seats and related articles, compliant with ASTM F1487, En1176-2 and AS4685-6. Compatible with new TRIAX 2015 and the existing TRIAX 2010 hand held units. This allows for the testing of swing seat impact in the laboratory, factory or field.

# TRIAX 2015

IMPACT TESTING SYSTEMS

NOW WIRELESS!

## Surface Impact Test Systems

### TRIAX 2015 Training

While the TRIAX 2015 system itself is easy to setup and use, and telephone and email support are available, training plays a big part in successful testing and evaluation of surfaces. A comprehensive single day training program is available (at additional cost) and can be provided at the customer's site, our offices and many locations world wide. As well as operation of the TRIAX 2015 system, training covers topics such as standards and report generation. Pricing is on a per person basis, plus travel expenses.

### TRIAX 2015 Cost

Complete TRIAX 2015 System Includes:

- TRIAX 2015 wireless head form with fitted, padded storage case
- TRIAX 2015 wireless hand held data unit with fitted, padded storage case
- Tripod
- Reference Mat
- Height measuring rod
- PC Application
- Wheeled carrying case

Please contact us for pricing.

### TRIAX 2015 Upgrades

An upgrade program is available to allow owners of TRIAX 2000 and TRIAX 2010 systems to upgrade to the advantages of the TRIAX 2015 system. The existing tripod is re-manufactured to the TRIAX 2015 functionality, and the existing accelerometer is re-calibrated and installed in a wireless head form. An upgrade includes a fresh calibration certificate. Note that the tripod legs are not upgraded.

Please contact us for pricing.

**WARRANTEE:** One year parts and labor on all TRIAX Family products with customer responsible for all inbound shipping charges.

Note: Prices Do Not Include: Shipping, Customs Duties, Fees or Taxes.

# TRIAx2015

IMPACT TESTING SYSTEMS

NOW WIRELESS!

## Surface Impact Test Systems

### CONTACT US

#### **System Sales, Technical Support and Service**

Paul Bamburak  
Alpha Automation, Inc.  
127 Walters Avenue  
Trenton, NJ 08638  
United States of America

609.882.0366  
paulb@alpha-automation.com  
www.triax2015.com

#### **Training and Standards**

Rolf Huber  
Canadian Playground Advisory  
1097 West River Road  
Cambridge, Ontario, N1R 5S5  
Canada

416.410.3113  
rolf@playgroundadvisory.com  
www.triax2015.com

[www.triax2015.com](http://www.triax2015.com)