



# Surface Impact Test Systems

SEPT 2020

# TRIAx

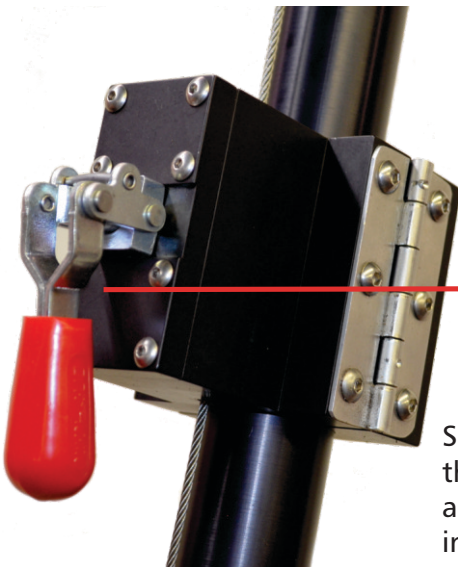
IMPACT TESTING SYSTEMS

## Surface Impact Test Systems



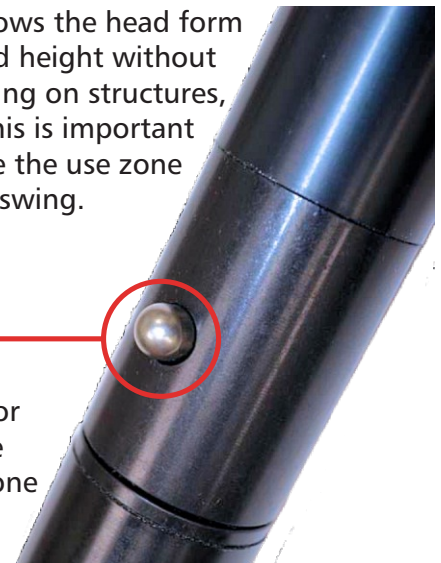
The TRIAX TOUCH system is the latest evolution of playground surface impact test systems fully compliant with American (ASTM F1292) European (EN1177) and many other (CSA, AUS) standards for the measurement of shock (G) and head injury criteria (HIC) values as would be experienced during an impact of 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 TOUCH 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.





## TRIAx TOUCH 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 TOUCH Data Unit

The TRIAX TOUCH 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 TOUCH system long after current crop of cellular phones and tablets have long since been discarded.



# TRIAX

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## TRIAX TOUCH Host Program

TRIAX TOUCH Report Application

File Memory Card Graph Report Options About Support

Click here to enter comment about this data

#	Peak	HIC	Ft/Sec	Angle	Date/Time	Comment
1	182	942	14.0	3	03/17/14 03:16p	
2	101	937	14.0	7	03/17/14 03:17p	
3	103	949	14.0	1	03/17/14 03:17p	
4	191	882	14.0	7	03/17/14 03:18p	
5	193	891	14.0	6	03/17/14 03:18p	
6	189	874	14.0	6	03/17/14 03:18p	
7	186	1448	22.7	4	03/17/14 03:20p	
8	185	1445	22.8	10	03/17/14 03:20p	
9	184	1432	22.7	15	03/17/14 03:21p	
10	178	907	14.0	5	03/17/14 04:35p	
11	180	920	14.0	3	03/17/14 04:36p	
12	180	920	14.0	1	03/17/14 04:36p	
13	184	932	14.0	7	03/17/14 04:37p	
14	184	848	14.0	5	03/17/14 04:37p	
15	181	835	14.0	4	03/17/14 04:37p	
16	186	1455	22.7	2	03/17/14 04:38p	
17	187	1462	22.7	16	03/17/14 04:38p	
18	186	1445	22.7	14	03/17/14 04:39p	
19	172	847	14.0	1	03/17/14 05:43p	
20	165	815	14.0	2	03/17/14 05:43p	
21	172	872	14.0	8	03/17/14 05:43p	
22	170	808	14.0	5	03/17/14 05:44p	
23	170	807	14.0	4	03/17/14 05:44p	
24	170	804	14.0	6	03/17/14 05:44p	
25	181	1402	22.7	13	03/17/14 05:44p	
26	181	1405	22.7	11	03/17/14 05:47p	
27	181	1405	22.7	9	03/17/14 05:48p	
28	169	851	14.0	9	03/17/14 06:57p	
29	169	855	14.0	5	03/17/14 06:57p	
30	169	847	14.0	3	03/17/14 06:57p	
31	165	815	14.0	6	03/17/14 06:58p	
32	164	806	14.0	5	03/17/14 06:59p	
33	165	819	14.0	4	03/17/14 06:59p	
34	174	1552	22.8	4	03/17/14 07:01p	
35	176	1575	22.8	12	03/17/14 07:01p	
36	175	1548	22.8	6	03/17/14 07:02p	
37	166	830	14.0	2	03/18/14 11:58a	
38	166	830	14.0	6	03/18/14 11:58a	
39	167	841	14.0	4	03/18/14 11:58a	

The TRIAX TOUCH 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 TOUCH Calibration Certificate

The TRIAX TOUCH 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 TOUCH system has a full factory calibration program in place and operating now. As with a new system, re-calibrated 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 TOUCH 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 TOUCH 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 TOUCH Family

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

TRIAx TOUCH wireless A-MISSILE 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 TOUCH IMPACTOR



TRIAx TOUCH A-MISSILE SYSTEM

## TRIAx TOUCH 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 TOUCH and the existing TRIAX 2010 hand held units. This allows for the testing of swing seat impact in the laboratory, factory or field.

## TRIAx TOUCH Training

While the TRIAX TOUCH 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 TOUCH system, training covers topics such as standards and report generation. Pricing is on a per person basis, plus travel expenses.

## TRIAx TOUCH Cost

Complete TRIAX TOUCH System Includes:

- TRIAX TOUCH wireless head form with fitted, padded storage case
- TRIAX TOUCH 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.

ALL PRICES SUBJECT TO CHANGE

Price includes the TRIAX TOUCH Impact Test System, fitted transport cases and PC reporting application.  
Prices Do Not Include: Shipping, Customs Duties, Fees or Taxes.

## TRIAx TOUCH Training (North America)

Please contact us for pricing.

## TRIAx TOUCH Upgrades

An upgrade program is available to allow owners of TRIAX 2000, TRIAX 2010 and TRIAX 2015 systems to upgrade to the advantages of the TRIAX TOUCH system. The existing tripod is re-manufactured to the TRIAX TOUCH 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

Pea gravel and loose stone surfaces are playground protective surfacing materials which present unique challenges requiring special accelerometers. Although pea gravel is becoming a very small portion of the entire playground protective surfacing market it is still found in some locales. Triax impact testing devices can be fitted with optional specially designed accelerometers that can ensure reliable testing of pea gravel and loose stone surfaces. Should your playground inventory or inspection services include pea gravel, please consult with the factory prior to ordering.

Please contact us for pricing.

ALL PRICES SUBJECT TO CHANGE

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



## Surface Impact Test Systems

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