

SLICE6 ATD INTEGRATION KITS



THE PREMIERE IN-DUMMY DAS SOLUTION



SLICE6 ATD INTEGRATION KITS

DTS In-Dummy DAS Solutions are available for a wide range of ATDs including:

Frontal Impact	Side Impact	Child	Autonomous Vehicles	Rear Impact	Vertical Load	Pedestrian & FMH (SLICE NANO)
THOR-50M	WorldSID-50M	Q1.5	THOR-AV-50M	BioRID-II	WIAMan	aPLI Legform
THOR-5F	WorldSID-5F	Q3	THOR-AV-5F			FLEX-PLI
Hybrid III 5 th	SID-IIs	Q6				Pedestrian Headform
Hybrid III 50 th	ES-2	Q10				Free Motion Headform
Hybrid III 95 th		H3-6				
		H3-10				



U.S. NCAP



Euro NCAP



Global NCAP

SLICE6 ATD INTEGRATION KITS

System Components



SLICE6

Miniature, rugged 6-channel data acquisition modules, distributed, configurable, high-speed sampling with precision timing



SLICE6 Distributor

Supports Ethernet communication, power and control signals for four SLICE6 chains – up to 192 sensor channels



SLICE6 DB-3

Supports Ethernet communication, power and control signals for three SLICE6 chains – up to 144 sensor channels



Single Chain Adapter +

Adapts Ethernet communication, power and control signals for one SLICE6 chain – up to 60 sensor channels



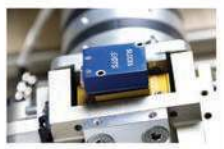
Wiring Harnesses

SLICE6 modules are networked via configurable wiring harnesses that make it easy to adjust channel counts as needed

SLICE6 Sensor Connection Options



DIRECT-MOUNT
TO LOAD CELL
LANDING PAD



DIRECT-MOUNT 6DX A2
SIX DEGREES OF
FREEDOM SENSOR



SENSOR INTERFACE
FOR CABLED
SENSORS



Key Benefits

The distributed SLICE6 in-dummy DAS solution improves testing in a variety of ways:

- Reduces in-dummy cabling & connectors by up to 75%
- Single exit cable vs. mass of trailing cables
- Significantly reduces test set-up time
- Built-in triaxial tilt sensor for easier dummy positioning
- Minimizes potential points of failure
- Improves data quality

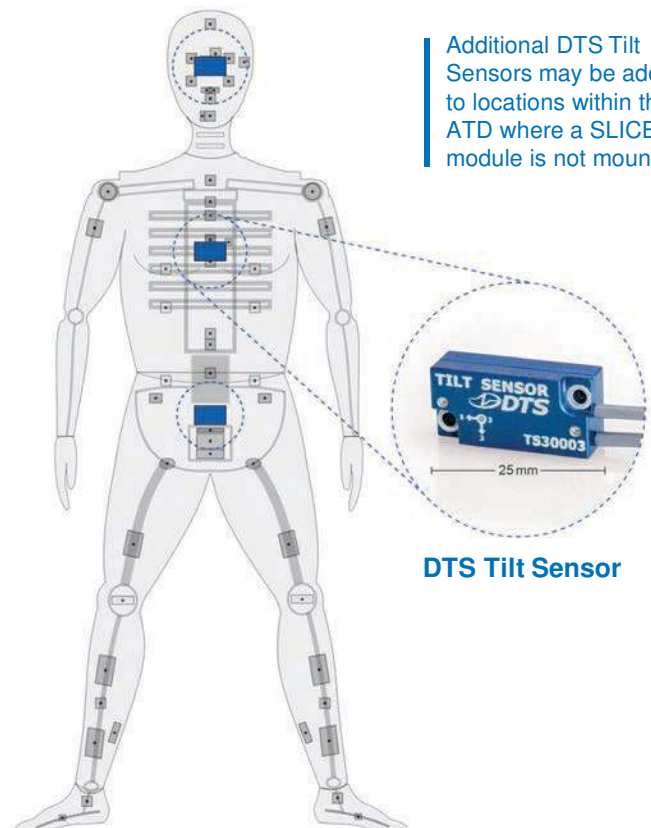


Built-in Tilt Sensor & Temperature Logging



SLICE6 in-dummy DAS features a built-in triaxial tilt sensor for ATD positioning, plus temperature logging capabilities. Tilt and temperature data is managed through a standalone software utility that works in conjunction with DataPRO, the main control software.

Multiple tilt locations can be viewed concurrently to ensure proper ATD alignment. Temperature is monitored via the SLICE6 Distributor or DB-3 with user-programmable options for frequency, sensor selection and recording modes.



Additional DTS Tilt Sensors may be added to locations within the ATD where a SLICE6 module is not mounted.

DTS Tilt Sensor

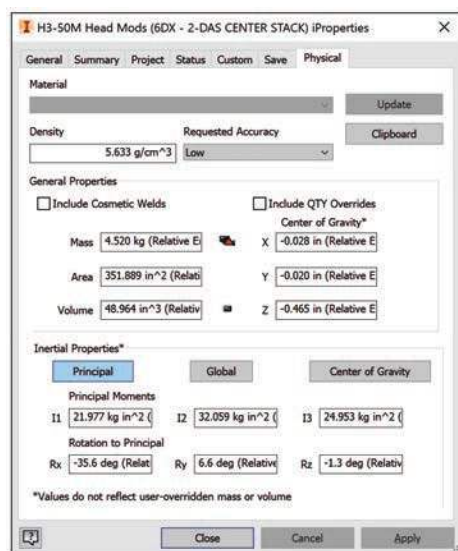


All integration work is done in-house at DTS by expertly trained ATD Systems Engineers.

Technical Expertise

Each SLICE6 ATD integration solution is based on DTS's extensive experience with embedded data acquisition systems, occupant injury testing and global test requirements.

- In-dummy DAS does not change original ATD design
- Maintains center of gravity, precision mass compensation
- Single exit cable eliminates bulky trailing umbilical cables that can affect ATD positioning and target weight
- Engineered for repeatability, reduces test set-up time
- Complies with ISO 6487 and SAE J211



Installation Options

1) DTS Integration Service: (Standard turn around 6-8 weeks)

All work is done in-house at DTS and includes:

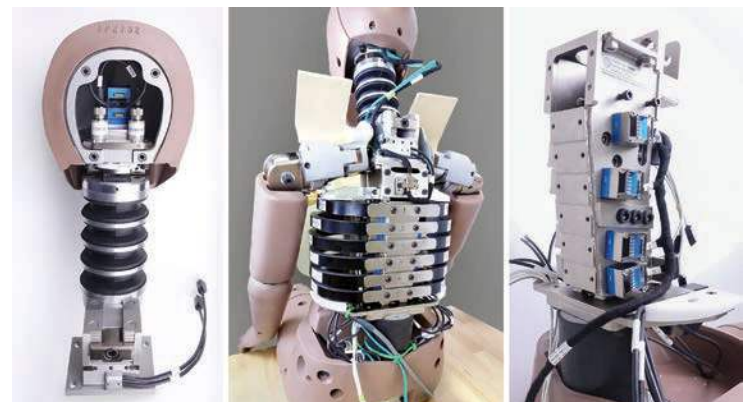
- ✓ SLICE6 DAS, mounting hardware, wiring harnesses
- ✓ Full inspection & disassembly of ATD
- ✓ Bench test of DAS & customer-supplied sensors
- ✓ Sensor wiring
- ✓ CoG & fitment modifications
- ✓ Sensor database, DataPRO test set-ups
- ✓ Full checkout including polarity check & ground straps
- ✓ Calibration certificates for DAS, sensors & ATD

2) Customer Installation:

DTS will provide a turn-key integration kit that includes:

- ✓ SLICE6 DAS, mounting hardware, wiring harnesses
- ✓ Detailed documentation and manuals
- ✓ Access to DTS technical support

NOTE: Customer is responsible for sensor wiring, ground straps, sensor data base set-up and all fit modifications, including flesh. Requires access to standard tools and machine shop to modify mechanical parts for proper fit and mass compensation.

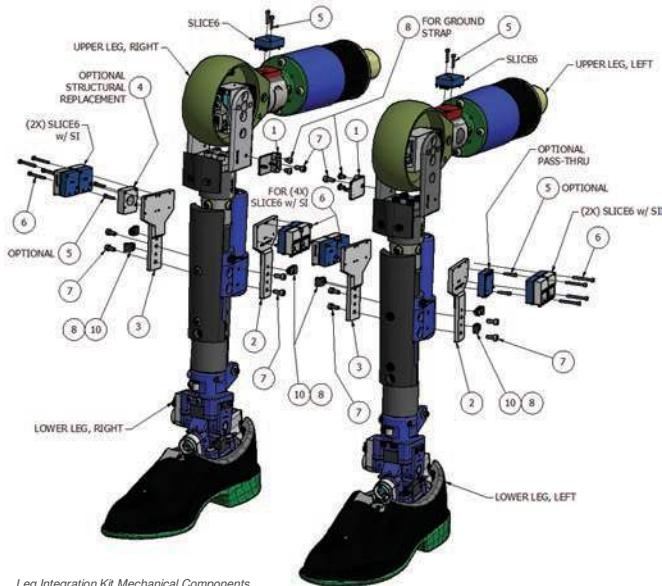


Every DTS ATD integration solution is engineered and tested to ensure proper mass and Center of Gravity (CoG).



Technical Documentation & Manuals

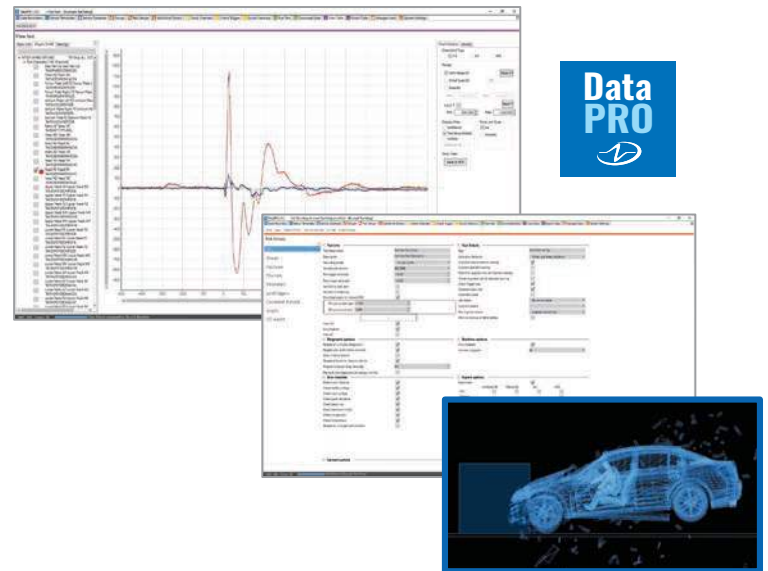
DTS's extensive documentation for each ATD integration ensures unparalleled consistency and reliability. For customers choosing to handle the integration in-house, every kit includes step-by-step instructions, hardware & software manuals, plus access to DTS global technical support.



Leg Integration Kit Mechanical Components

DTS DataPRO Software

DataPRO is a powerful set-up, control and data viewing software for DTS hardware. The Windows-based system manages every aspect of the test including sensor databases, diagnostics, arming, downloading and data viewing. Key features: integrated off-line test builder, extensive ISO MME database, enhanced diagnostic tools, multiple viewing options and automatic report generation.



For more information or a quote, please contact sales@dtsweb.com

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