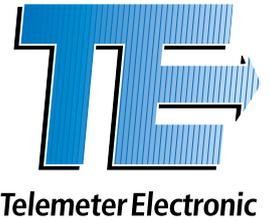


# AERO Aviation Safety Equipment



## AERO SiPsHitch™

Our SiPsHitch™ **linear force monitoring** system alerts operators to potential overstress situations before damage can be caused to the aircraft or towing equipment. SiPsHitch™ affords never-before-seen levels of protection in towbar push-pull operations.

- Patented USA
- Pat Pending EU
- Pat Pending China



All too often tractor operators are careless while towing aircraft or the tractor is well oversized for the aircraft it is towing.

The results can be catastrophic.

Regardless of shear pin inclusion, incidents such as this occur all too frequently across the entire aviation industry **from small light single engine aircraft to heavy wide body airliners.**



**SiPsHitch can be fitted to all existing tractors** and tugs as well as factory fitted to the TLD TMX range of push back tractors.

An adapter is supplied to fit to the tractor that incorporates the force measuring cell.

Three different size ranges are available to suit corporate aircraft all the way up to large airliner capacity.



Three max. DBP size ranges;

- 18.0k Lbs (8,000 daN)
- 50.0k Lbs (22,200 daN)
- 125.0k Lbs (55,600 daN)

Can be fitted to the front or rear or both.

Installation can be done 'On Site'.

Alerting and intervention can be adjusted from 80% of selected max shear load down to 50%.



Fully weatherproof and **designed to be operated very easily**, the display includes aircraft selection with corresponding linear shear loading limits.

Select from basic mode to full reporting modes depending on your own ramp requirements.

In any mode, the system will always provide full active protection and reduce engine torque in the event of a possible overstress situation.

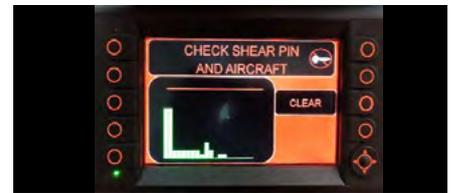


Real time load forces display on the auto brightness screen during the tow.

Screen colors will change approaching hazardous load forces with the addition of an **ultra bright strobe and warning alarm** at the point of possible overstress.

Continued operation will result in tractor power loss.

Initial overstress load as a result of a 'braked' aircraft will cause immediate tractor power loss.



SiPsHitch data logs all towing operations.

**Historical data is stored on a USB** that is only accessible by authorized users.

A selection of reports are easily generated from the data and macros stored on the USB.

These include;

Complete tow logs including tail #.

Tow forces as a % of shear or maximum load for all tows by date, aircraft, tail #, operator.

Comparison charts for all operators plus many more customizable options.



SiPsHitch is an affordable and easy to install option for any push back tractor.

Active overstress protection as well as an invaluable training aid, this equipment could CYA in the event of an accusation of damage to an aircraft while in your possession.

Overall, this system is running flawless for RDU in capturing real-time data. I am able to train individuals based off the data alone in showing/seeing if they are "rough" with the tow or smooth sailing.

Hopefully, one day, we will install this on our other tractor and other bases will soon follow!

**-Chad Dalton, TAC Air**



Germany

**Telemeter Electronic GmbH**

Joseph-Gänsler-Str. 10, 86609 Donauwoerth  
Phone +49 906 70693-0, Fax +49 906 70693-50  
info@telemeter.de, www.telemeter.info

Switzerland

**Telemeter Electronic GmbH**

Romanshonerstr. 117, 8280 Kreuzlingen  
Tel. +41 71 6992020, Fax +41 71 6992024  
info@telemeter.ch, www.telemeter.info

Czech Republic

**Telemeter Electronic s.r**

České Vrbné 2364, 37011 České Budějovice  
Tel.+420 38 5310637,  
info@telemeter.cz, www.telemeter.cz