FUTEK
ADVANCED SENSOR TECHNOLOGY, INC.

APPLICATION 310
斯坦福太阳能汽车测功机
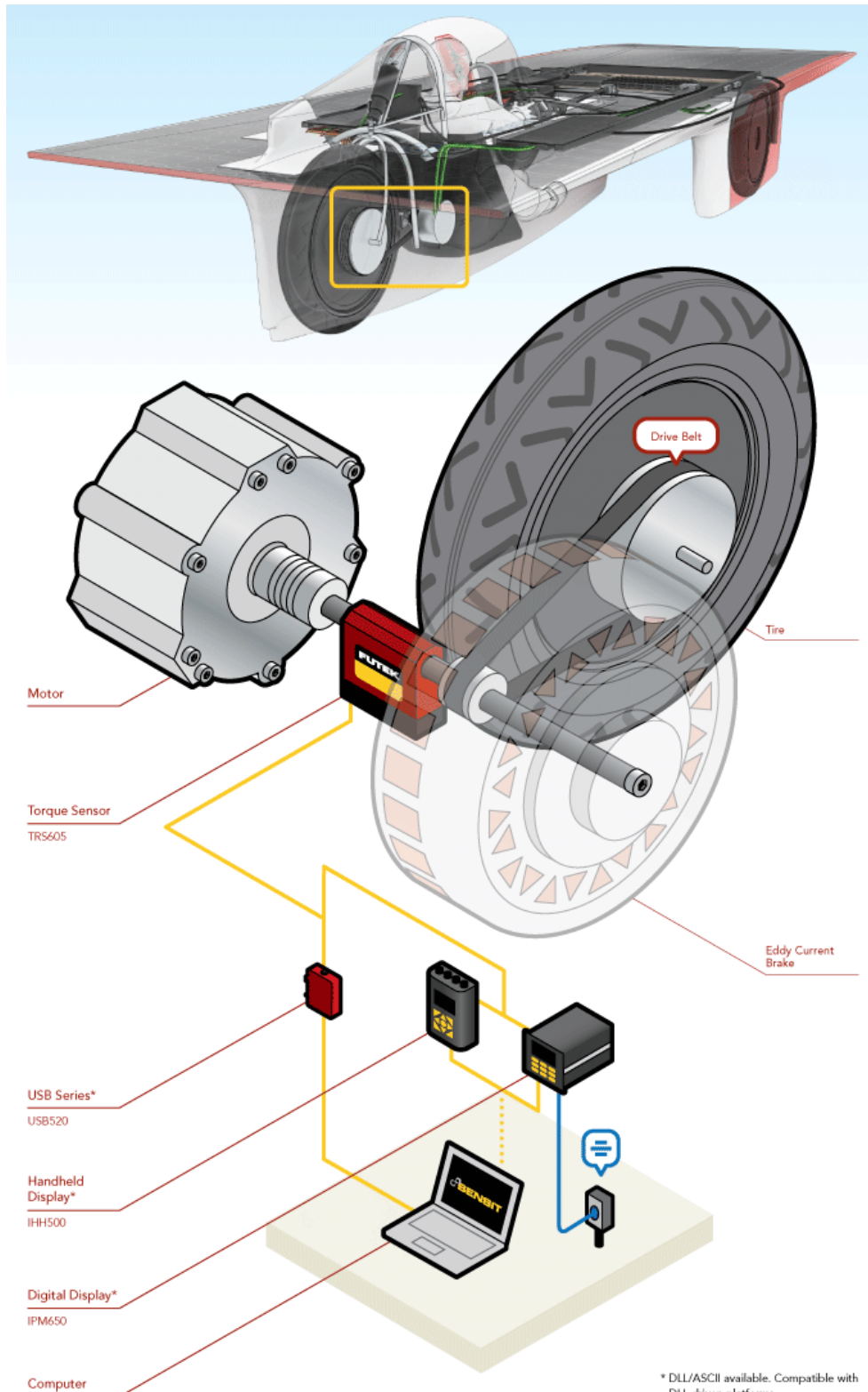
* DLL/ASCII available. Compatible with DLL driven platforms.

应用概述

斯坦福的 2013 年太阳能汽车项目团队利用 FUTEK 的轴对轴旋转扭矩传感器，通过测力计来模拟发动机在比赛当天所受的影响。

使用产品

一个轴对轴旋转扭矩传感器（TRS 系列），搭配仪表 IPM650、IHH500 或 USB 采集模块。

Drive Belt

Tire

Motor

Torque Sensor
TRS605

Eddy Current Brake

USB Series*
USB520

Handheld Display*
IHH500

Digital Display*
IPM650

Computer

* DLL/ASCII available. Compatible with DLL driven platforms.

使用说明

1. The Stanford Solar Car Project team wanted to add a clever twist to their dynamometer (dyno): implement one of Xenith's regenerative brakes as its energy absorber。

2. This setup would allow them to simultaneously study the efficiency of their regenerative braking system while testing their motor。

3. To gain perspective on if this approach could be realized, the SSCP Team called on the experts at FUTEK。

4. Consulting led to a clear direction that their dyno would need a TRS605 Rotary Torque Sensor at the center of its measurement system. (As seen here: Stanford custom motor。

5. The TRS Series sensor integrates a rotary encoder with a freely spinning torque transducer..

6. The TRS605 could then be situated directly between the motor's crankshaft and the regenerative brake allowing the both torque and displacement measurements to be simultaneously captured by a single sensor.

7. The USB520 is the ideal data exchange solution for systems that require translation of rotary torque encoder readings, such as angle and speed. Its compact and robust design also makes the USB520 fitting for this type of application.

TRS 系列
动态扭矩传感器

USB520
USB 采集模块

IPM650
嵌入式显示仪表

IHH500
手持式显示仪表

扭矩传感器

Sensor Solution Source
Load · Torque · Pressure · Multi Axis · Calibration · Instruments · Software

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ISO 9001:2008   ISO 17025:2005   U.S. Manufacturer

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