

APPLICATION EXAMPLE MADE FOR SPEED

THE APPLICATION

A mountain bike manufacturer wanted to confirm the magnitude of loads being transferred through the shock absorber of a prototype bike.

A load pin was attached to the suspension which was connected to the FSU device, which was in turn connected to a PC held in the backpack of the cyclist.

They were able to see how the different damping settings affected the loading in the shock absorber and the fast measurement rate allowed detailed analysis.

The results showed the load increasing as the bike went uphill and this allowed them to adapt the suspension to the specifications of the user.

KEY BENEFITS

- High speed measurement at 4800 samples per second and 13 bit noise free resolution provided high accuracy results.
- Simple USB 'Plug and Measure' device allowed quick setup
- Powerful Toolkit software allowed real-time data analysis of the suspension testing

