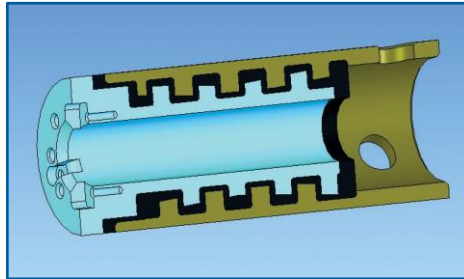
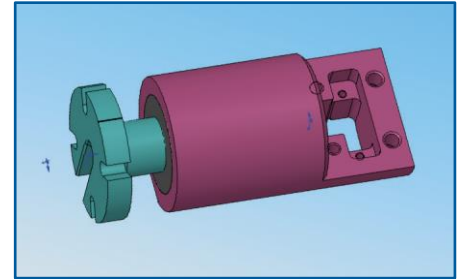


MWD Vibration Isolators

APS Technology provides best in class MWD Vibration isolation systems. Our patented isolators offer exceptional reliability and low cost of ownership. These systems effectively protect sensitive MWD components from damaging shocks. The APS isolators support large axial and torsional loads with minimum deflections, while effectively reducing axial, torsional and lateral shocks, substantially improving reliability and reducing component replacement costs compared to the OEM snubbers.



Patented Opposing Helical Taper Design Isolator*



Battery Isolator (P/N 60272)

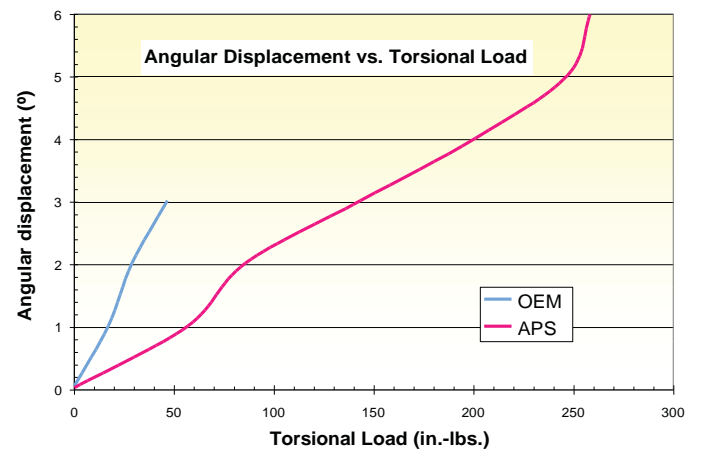
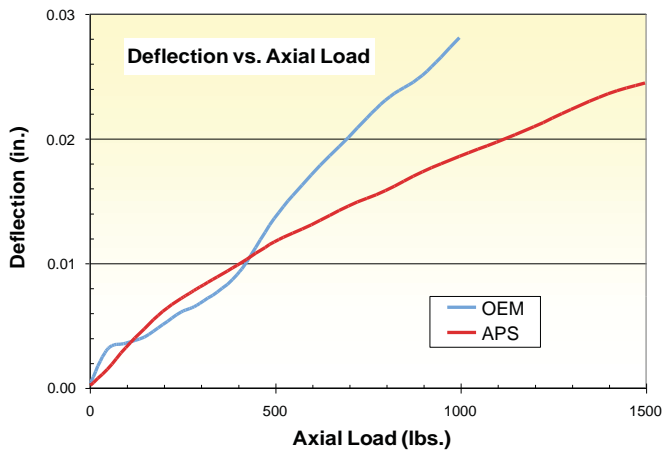
Features	Advantages	Benefits
Patented* opposing helical taper design	<ul style="list-style-type: none"> ▲ Cannot come apart in service ▲ Does not require pins or keys 	<ul style="list-style-type: none"> ▲ Improved reliability ▲ Long component life ▲ Reduced maintenance costs
Elastomer-filled helical design	<ul style="list-style-type: none"> ▲ Large metal / elastomer contact area resists de-bonding under load ▲ Excellent damping ▲ Electrically isolates the pin and body 	<ul style="list-style-type: none"> ▲ Long component life ▲ Protects sensitive electronics ▲ Improved reliability
Elastomer is in compression under torsion or axial load	<ul style="list-style-type: none"> ▲ Reduced debonding risk ▲ Supports large torsional and axial loads with reduced deflection ▲ Reduced wire flexure 	<ul style="list-style-type: none"> ▲ Reliable wire connections ▲ Improved wiring reliability
Superior materials	<ul style="list-style-type: none"> ▲ Higher-strength materials provide better durability under high shock loads 	<ul style="list-style-type: none"> ▲ Improved reliability ▲ Reduced maintenance costs
High resonant frequency	<ul style="list-style-type: none"> ▲ Not excited by the frequency of typical drilling excitations ▲ Isolates high-frequency shocks 	<ul style="list-style-type: none"> ▲ Improved reliability ▲ Protects sensitive electronics
Drop-in replacement for OEM snubbers	<ul style="list-style-type: none"> ▲ Superior suspension for your assets 	<ul style="list-style-type: none"> ▲ Easy to install in most probe-based MWD tools ▲ Low total cost of ownership

** U.S. Patents #6,916,248 and 5,833,541*

MWD Vibration Isolators

Our customers tell us that, “APS vibration isolators outlast the OEM isolators by more than a 4-to-1 margin,” and that they “have never had to replace a failed APS Isolator.”

APS also designs and manufactures custom suspension systems for collar- or sonde-mounted tools. Optional elastomers and custom geometry are available for high-temperature and unique applications.



Product Specifications

Isolator Specifications	
Max. Damping Torque	> 259 in.-lbs.
Spring Rate	~ 65,000 lbs./in.
Natural Frequency	318 Hz.
Amplification	49% max.
Isolator Ordering Information	
Part Number	Description
60272	Battery Isolator
60478	D & I Isolator
60479	Gamma Isolator

Headquarters • Wallingford • USA
 7 Laser Lane, Wallingford, CT 06492 USA
 Phone: 860.613.4450 • Fax: 203.284.7428
 contact@aps-tech.com

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