



# Product Information

## Shock Absorber Seals



**WELL OIL SEAL INDUSTRIAL CO., LTD**

ISO 9001 : 2008

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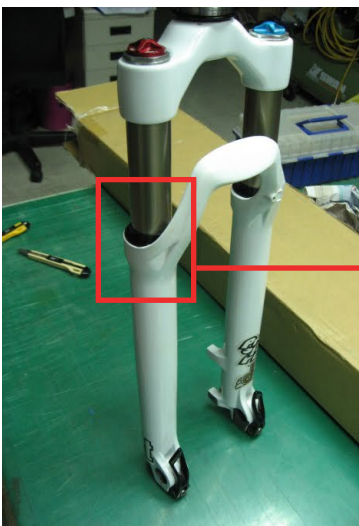
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# Contributing to Taiwanese Bicycle

**Taiwanese bicycle industry took off in 1950s. Owing to technique breakthrough, quality improvement, and innovative design, Taiwan exported more than 300 million bicycles in 1980 and substituted for Japan as the NO.1 exporting country. Nowadays, Taiwan plays an important role in bicycle market. WSI has cooperated with many shock absorber suppliers such as SRAM, HODAKA, DURASHOX, APRO, OHLINS SR SUNTOUR and etc. for famous bicycle manufacturers in initial stage. After developing various design of shock absorber seals for bicycles, WSI devoted to expand the market domain and cooperated with several OE manufacturers of motorcycle and vehicle shock absorbers. Behind customer's belief, WSI keeps investing in R&D quality enhancement and has acquired approvals from many international automotive tier 1 and 2 manufacturers of shock absorbers through years.**



# Application

**The function of shock absorber is to damp the bouncing spring oscillations caused by vehicle rolling or swaying on turns, bouncing on rough road, braking and accelerating. Shock absorbers are developed to do full justice to the vehicle and contributed to comfort and good driving characteristics.**

**Shock absorber seals can be simple or complex according to the applications including mono-tube, twin-tube, struts, gas-pressurized for motorbikes, passenger cars, light, medium, heavy-duty trucks, and industrial applications. Many modern shock absorbers use a combination of pressurized gas and oil. Seals for these application typically include a primary seal lip, a contaminant exclusion lip, and a check valve to prevent excess pressure build-up as the shock absorber is cycled. Shock absorber seal is positioned between piston rod and tube. It is important that seals are not failure in use, since they must keep out contaminants at the same time as preventing the oil from leaking out during the reciprocating motion of the piston rod. WSI researches and develops different elastomeric components with high-performance in resistance to pressures, temperatures and shock absorber fluid or gas according to customer's requirements.**



# WSI's High Performance Shock Absorber Seals

**WSI shock absorber seals are developed through critical design considerations and quality requirements all according international automotive standards.**

**WSI deploys dynamic properties of shock absorber seals through the simulation of original conditions, To support our customer's testing needs in different applications, WSI can conduct a variety of dynamic testing such as service life,stroke length, oil temperature, and rod velocity of the shock absorber.**



## **WSI Shock Absorber seals have the characteristics:**

- **Prevent leakage of the dampening fluid or gas**
- **Keep out external contaminants during the reciprocating motion of the piston rod**
- **High performance in resistance to wide temperature range**
- **Excellent resistance to high pressures**
- **Work well under high surface velocity**
- **Outstanding resistance to shock absorber fluid/gas**



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