

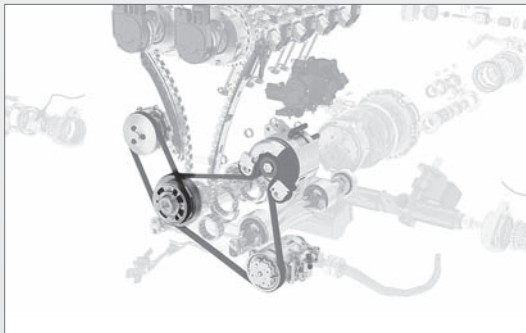
Engine  
Chassis  
Transmission  
E-Mobility

**SCHAEFFLER**

# Pulley Decoupler



# Pulley Decoupler (PYD)

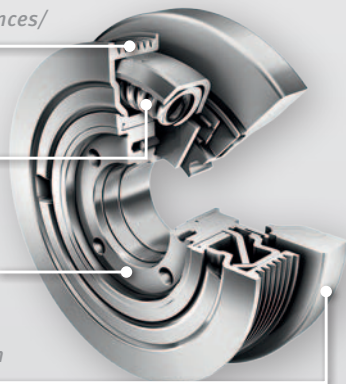


*Decoupler unit eliminates resonances/irregularities*

*Arc springs designed for > 1,000,000 starts*

*Mounted directly on the crankshaft*

*Torsional vibration damper (TVD)*



## Description

- Pulley integrated decoupler (arc spring design)
- PYD also covers TVD functionality

## Functional advantages

- Reduction of irregularities and dynamic forces in the FEAD
- Reduced fuel consumption and CO<sub>2</sub> emissions due to lower static pre-tension of belt and friction losses
- PYD supports functions like comfort start/stop with belt alternator starter (BAS), eBoost and recuperation function

## Product benefits

- PYD is suitable for conventional and BAS starter concepts
- Robust solution designed for > 1,000,000 starts

## Benefits 12V vs. 48V

- Can be combined with 12V and 48V BAS
- PYD for 48V BAS systems covers even higher requirements regards dynamic forces and starting behavior

## Integration/installation

- No additional integration outlay for the OEM