



# Wilbers

Performance Suspension

## GUIDE



This guide provides a comprehensive overview of the diverse Wilbers product range and also serves as valuable support for our employees, partners and customers. It is intended to help you better understand the products, make targeted use of their advantages and derive optimum benefit from them.

## Shock absorber

- Ecoline
- Adjustline
- Accessories
- Adjusters
- Variants
- Nivomat / WESA

## Fork

- Forktypes
- Cartridges
- Fork accessories







# Ecoline



	Type	Characteristics
	<b>530</b>	<ul style="list-style-type: none"> <li>· 36 mm cylinder</li> <li>· 46 mm spring (inner diameter)</li> <li>· Hook wrench only</li> <li>· Blackline only</li> </ul>
	<b>531</b>	<ul style="list-style-type: none"> <li>· 36 mm cylinder</li> <li>· 46 mm spring (inner diameter)</li> <li>· Hook wrench only</li> <li>· Blackline only</li> <li>· Chrome cap (secured with grub screw, adjustment with hook wrench)</li> </ul>
	<b>540</b>	<ul style="list-style-type: none"> <li>· 46 mm cylinder</li> <li>· 59 mm spring (inner diameter)</li> <li>· Hook wrench only</li> <li>· Blackline only</li> </ul>

The damping of Ecoline shock absorbers cannot be adjusted retrospectively.

# Adjustline

	Type	Characteristics
	<b>640</b>	<ul style="list-style-type: none"> <li>· 46 mm cylinder</li> <li>· 59 mm spring (inner diameter)</li> <li>· Adjustable rebound damping</li> <li>· Black- / Blue- / Nightline</li> <li>· Spring color as desired (RAL)</li> </ul>
	<b>641</b>	<ul style="list-style-type: none"> <li>· 46 mm cylinder</li> <li>· 59 mm spring (inner diameter)</li> <li>· Adjustable rebound damping</li> <li>· Adjustable compression damping</li> <li>· Black- / Blue- / Nightline</li> <li>· Spring color as desired (RAL)</li> <li>· Expansion tank on the hose</li> </ul>
	<b>642</b>	<ul style="list-style-type: none"> <li>· 46 mm cylinder</li> <li>· 59 mm spring (inner diameter)</li> <li>· Adjustable rebound damping</li> <li>· Adjustable compression damping</li> <li>· Black- / Blue- / Nightline</li> <li>· Spring color as desired (RAL)</li> <li>· Expansion tank fixed</li> <li>· 3 different versions</li> </ul>
	<b>643</b>	<ul style="list-style-type: none"> <li>· 46 mm cylinder</li> <li>· 59 mm spring (inner diameter)</li> <li>· Adjustable rebound damping</li> <li>· Adjustable compression damping</li> <li>· Black- / Blue- / Nightline</li> <li>· Spring color as desired (RAL)</li> <li>· Rotatable expansion tank (only through us)</li> <li>· 9 different versions</li> </ul>

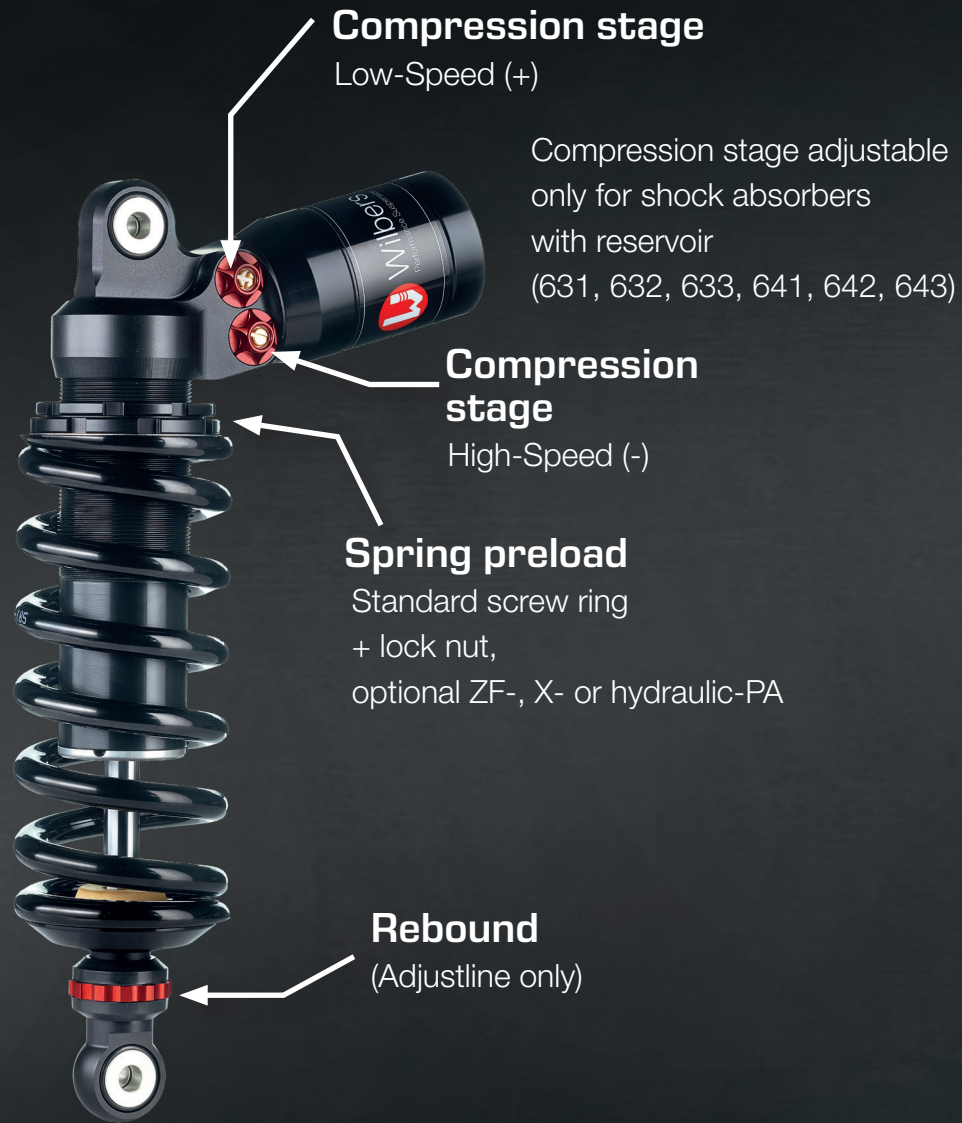
Many shock absorbers are also available as 63x, with a correspondingly smaller cylinder.

# Accessories

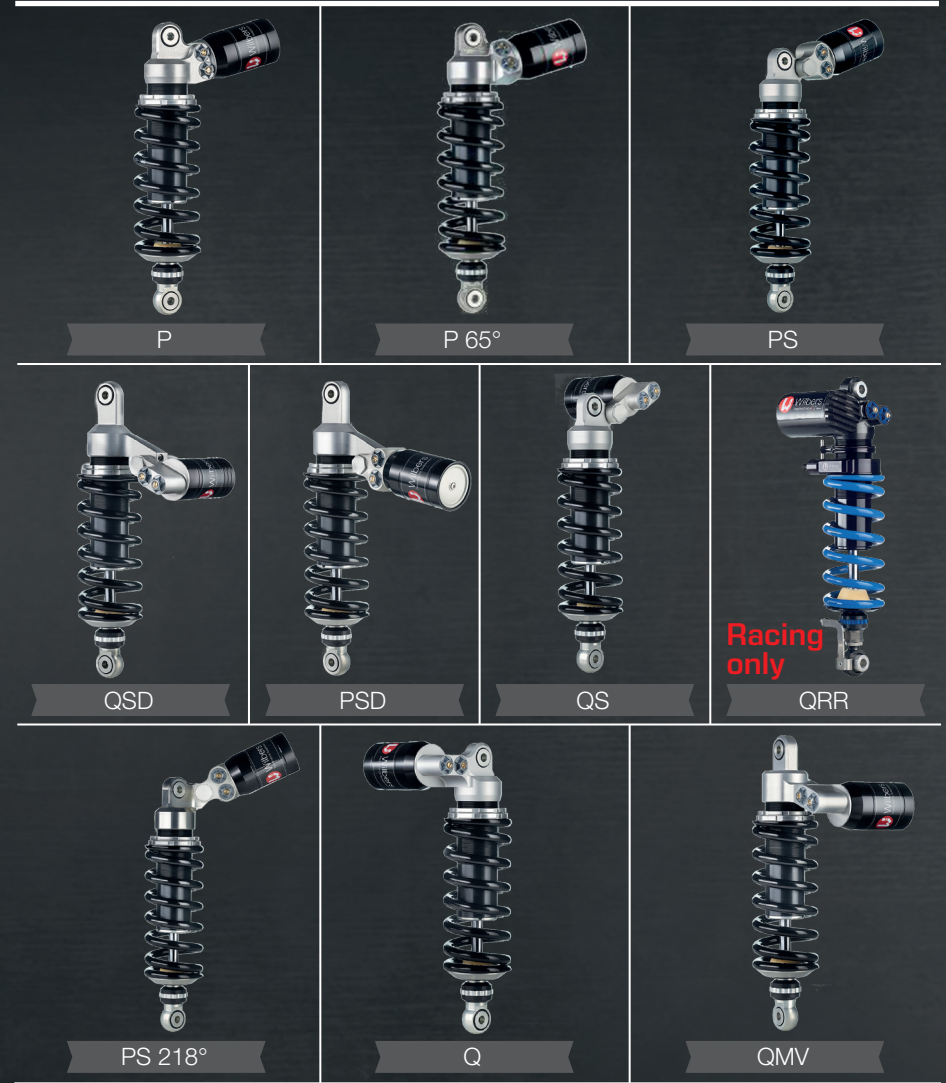
	Type	Characteristics
	<b>X-PA -625-</b>	<ul style="list-style-type: none"> <li>· 15 mm adjustment range</li> <li>· 450 clicks (46 mm), 30 = 1 mm</li> <li>· 375 clicks (36 mm), 25 = 1 mm</li> <li>· Adjustment by socket wrench</li> <li>· Purely mechanical</li> <li>· Simple operation from the outside</li> </ul>
	<b>ZF-PA -659-</b>	<ul style="list-style-type: none"> <li>· 10 mm adjustment range</li> <li>· 40 clicks, 4 = 1 mm</li> <li>· Hydraulic, simple operation</li> </ul>
	<b>Hydr.- PA -625-</b>	<ul style="list-style-type: none"> <li>· 10 mm adjustment range</li> <li>· 58 clicks (PA07), 6 = 1 mm</li> <li>· No clicks for PA99, 1 turn = 1 mm</li> <li>· 4 color variants</li> <li>· Simple operation from the outside</li> </ul>
	<b>Height adjust- ment -629-</b>	<ul style="list-style-type: none"> <li>· 10 mm adjustment range (+/- 5 mm)</li> <li>· Adjustable when installed (depending on model)</li> </ul>

These accessories can only be configured for Adjustline shock absorbers.


# Adjusters



# 643 Variants



# Nivomat / WESA

	Type	Characteristics
	<b>Mono Nivomat</b>	<ul style="list-style-type: none"> <li>· Automatic damping adjustment</li> <li>· Automatic level control</li> <li>· Available for several manufacturers</li> <li>· Maximum comfort</li> <li>· No adjustment options</li> <li>· No raising/lowering</li> </ul>
	<b>Stereo Nivomat</b>	<ul style="list-style-type: none"> <li>· Automatic damping adjustment</li> <li>· Automatic level control</li> <li>· Only for Harley Touring models</li> <li>· Maximum comfort</li> <li>· No adjustment options</li> <li>· Negative suspension travel adjustable via Ecoline</li> <li>· No raising/lowering</li> </ul>
	<b>Nivomat for big adventure bikes</b>	<ul style="list-style-type: none"> <li>· Automatic damping adjustment</li> <li>· Automatic level control</li> <li>· Maximum comfort</li> <li>· No adjustment options</li> <li>· Only for BMW GS models</li> <li>· Eliminator box may be necessary (error message)</li> </ul>
	<b>WESA</b>	<ul style="list-style-type: none"> <li>· Wilbers-ESA (Electronic Suspension Adjustment)</li> <li>· Lowering possible</li> <li>· Preservation of the electrical adjustment</li> <li>· Partial reuse of OEM parts</li> <li>· WESA, Mini-WESA, Dynamic WESA, Dynamic Feedback WESA, Dynamic Comfort WESA.</li> </ul>

# Fork types



## 46R Open Cartridge

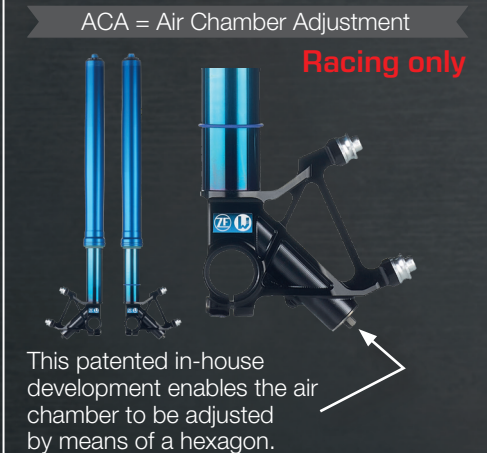


## 46RR Closed Cartridge



Can only be distinguished from the outside by the star lid.

## ACA Closed Cartridge



# Cartridges

## Open Cartridge



## Characteristics

- Open oil circuit inside the fork
- Adjustable compression & rebound
- 10 clicks each compression & rebound
- 10 mm spring preload possible
- Individually adjustable to rider weight

## Closed Cartridge



## Characteristics

- Closed oil circuit
- Cartridge is under nitrogen pressure
- 36 mm separation piston between oil & nitrogen
- Adjustable compression & rebound
- 10 clicks each compression & rebound
- 10 mm spring preload possible
- 3 bar gas pressure
- Individually adjustable to rider weight

# Fork & Accessories



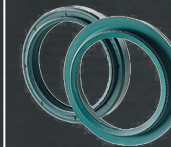
- **Fork springs linear**  
(Art. 601-xxx)
- Continuous spring rate



- **Wilbers GP5**  
Racing fork oil
- For extreme racing conditions



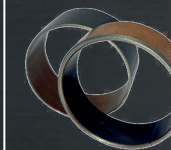
- **Progressive fork springs**  
(Art. 600-xxx)
- 2 spring rates depending on coil type



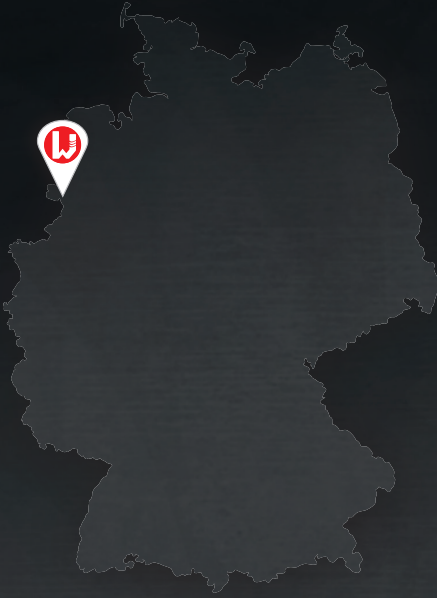
- **Oil seals** from SKF
- 1 set = 1x dust cap & 1x oil seal



- **Wilbers ZERO friction fork oil**
- Viscosities  
2.5 / 5 / 7.5 /  
10 / 15 / 20



- **Plain bearing**



**Wilbers**  
Performance Suspension

*Since 1985!*

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