



T-LINE

GEARBOX SOLUTIONS FOR COMMERCIAL AND INDUSTRIAL USE

Our INDUSTRIAL segment delivers drive solutions specifically designed for commercial bicycle use, from rental bike fleets to heavy-duty cargo e-bikes. Pinion offers reliable gearboxes based on proven automotive technology. Our shifting systems are extremely robust, efficient, 100% reliable, and virtually maintenance-free. They are extremely cost-effective with a low Total Cost of Ownership (TCO), and calculable service that suits commercial and industrial applications. The Pinion T-Line gearboxes: for professionals by professionals.

Pinion T-line gearboxes are available in 6-, 9- or 12-speed versions. The 6- and 9-speed gearboxes are the only shifting systems on the market with an optional neutral gear. This allows reverse movement of the bicycle without the crank arms rotating backwards. While operating a heavy vehicle, this feature significantly improves ergonomics and reduces the risk of injury as compared to conventional cargo bikes.

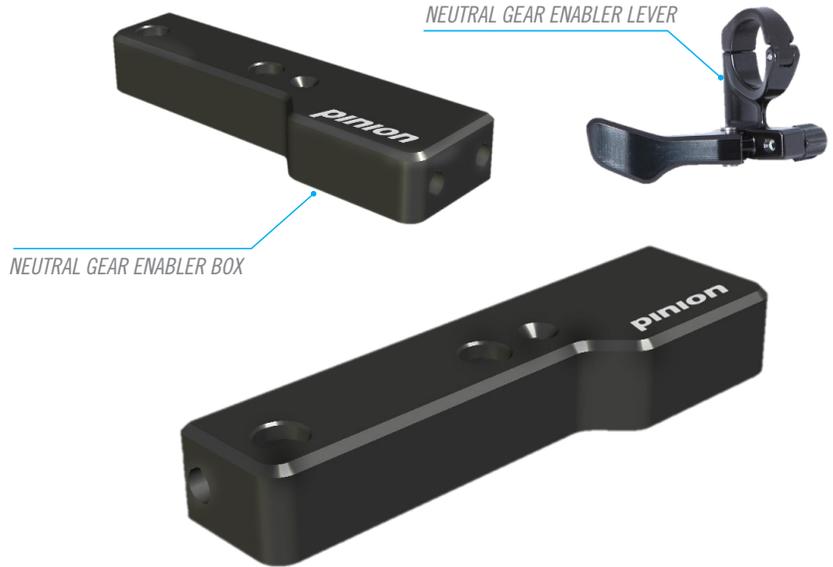
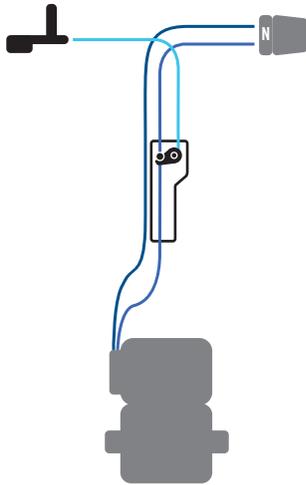
The T-Line gearbox can be placed at any position within a vehicle's drivetrain. In addition to the traditional configuration where the operator drives the gearbox directly, the T-Line can also be used as an intermediate gearbox. In this arrangement, an additional sprocket is mounted on the gearbox driveshaft and connected via chain to an upstream drive crank. With gear ratios beyond 1:1, this configuration also allows further customization of the final drive ratio.

CAUTION! The use of upstream electric motors has not yet received series approval. Under certain conditions and after consultation, approval for implementation may be granted on a case-by-case basis.

SPECIFICATION

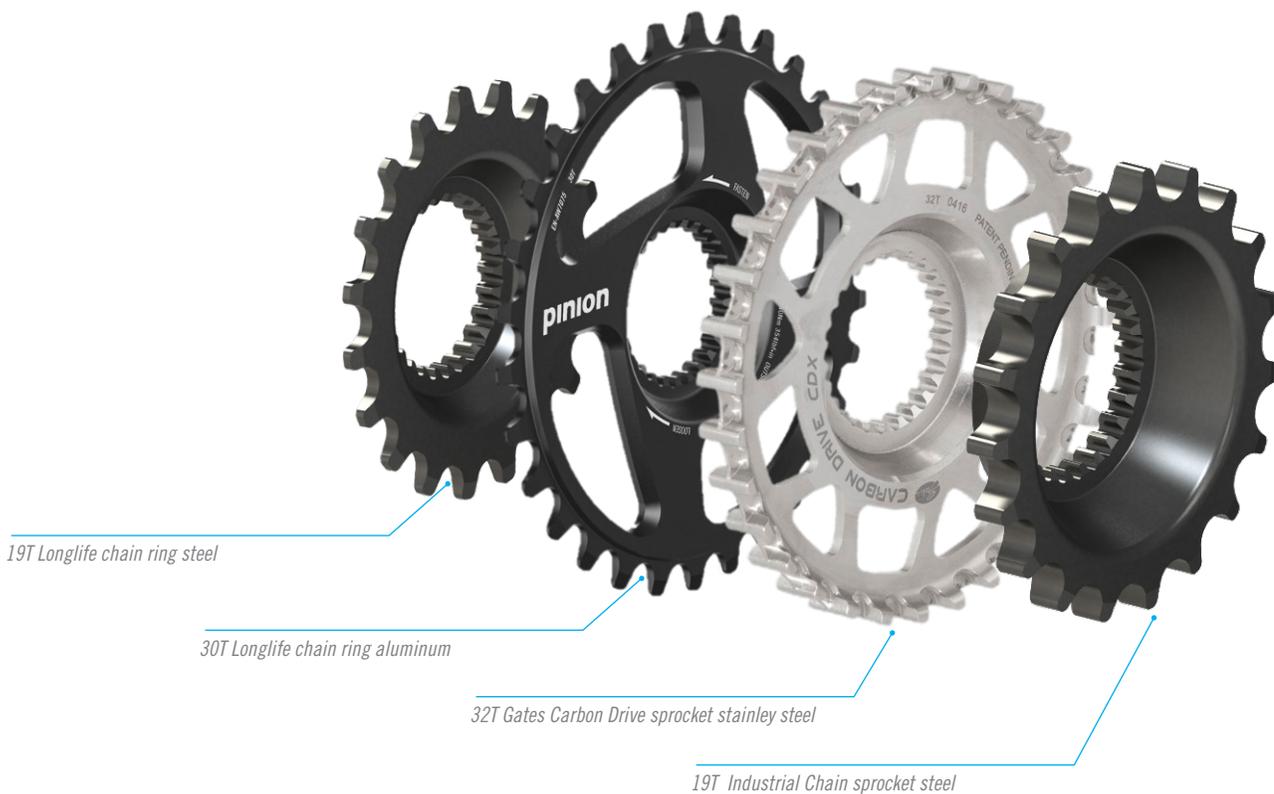
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|-----------------------------|--|
| <i>Material body</i> | <i>Magnesium alloy</i> |
| <i>Gearbox version</i> | <i>T1.6, T1.9, T1.12</i> |
| <i>Neutral gear version</i> | <i>T1.6ⁿ / T1.9ⁿ</i> |
| <i>Gearbox connection</i> | <i>Pinion standard interface</i> |
| <i>Maximum input torque</i> | <i>250 Nm</i> |
| <i>Service effort</i> | <i>1 oil change per year</i> |
| <i>Availability</i> | <i>Q2, 2021</i> |
| <i>Pricing</i> | <i>Quantity dependent*</i> |

* please contact our Sales Team



T-LINE

T-LINE ACCESSORIES



19T Longlife chain ring steel

30T Longlife chain ring aluminum

32T Gates Carbon Drive sprocket stainley steel

19T Industrial Chain sprocket steel

19T Longlife sprocket for input shaft



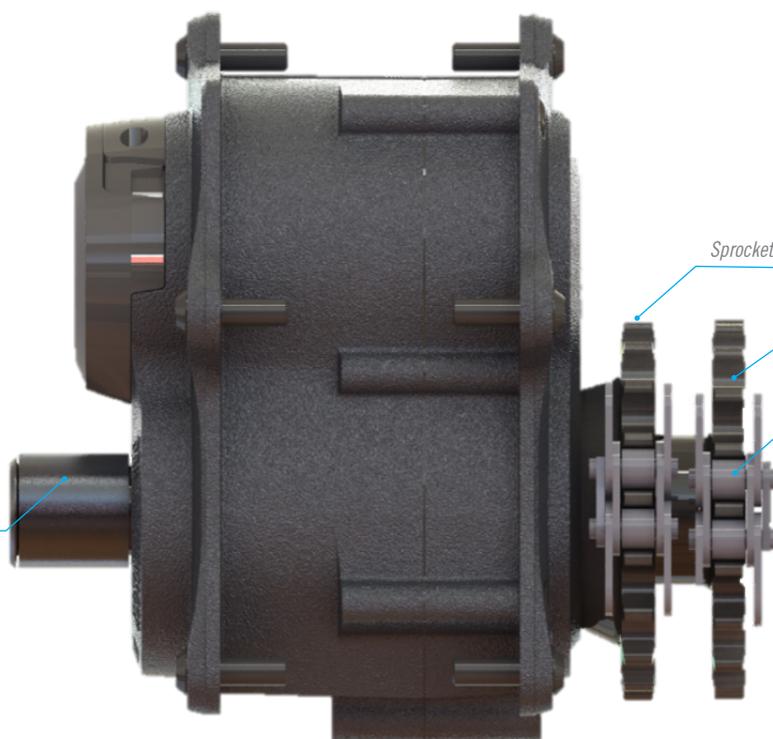
19T Industrial sprocket for input shaft



T-LINE

T-LINE ACCESSORIES FOR INTERMEDIATE GEARBOXES

Sleeve on input shaft



Sprocket on output shaft

Sprocket on input shaft

*Industrial chain
08B-1 (DIN 8187 / ISO 606)*

ABOUT PINION

Pinion was founded in 2008 by two former Porsche engineers, Christoph Lermen and Michael Schmitz. Their vision was to build „a bicycle gearshift with the heart of a sports car.“

The fully-sealed gearbox combines the best of automotive and bicycle technologies to bring you unrivaled drivetrain performance and reliability. Pinion gearboxes are extremely robust, virtually wear- and adjustment-free, and field-tested in the harshest conditions on earth.

As pioneers in gearbox development, Pinion has received numerous product and design awards for their innovative application of automotive engineering technology in the cycling industry. Every Pinion gearbox is Made in Germany, with development, design, construction, serial production, sales and service taking place at their modern Denkendorf headquarters just outside of Stuttgart. www.pinion.eu

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SALES CONTACT

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