

Interior

1. The clutch



The heart of the **speed-drive** gearing system is the clutch, which is switched by pushing the gear shift button either on the left or on the right side.

It is precisely machined out of an extremely strong steel to withstand the harshest conditions.

The latest generation is machined symmetrically, therefore you can use it even on fixed gear bikes, because it allows to transmit full torque in both direction.

2. The planetary system



In the centre there is the so called sunwheel. Like planets around the sun, the four planet pinions orbit the sunwheel.

There are three different gear ratios possible, if the axle is coupled either with the internally toothed housing, the sunwheel or the planet carrier.

On the photo, you can also see the simple, tough structure of **speed-drive**.



The design allows to strip down the system without any special tools, if ever required. If so, please download the manual before opening the gear housing.

Thanks to the enclosed housing, **speed-drive** is protected against dust, water and other environmental influences. Indeed, never clean the unit with high pressure water!

We just have a couple of customers, who have driven several 10'000 miles without having had any problems with their **speed-drive**.