

Interior

1. The clutch



The heart of the *mountain-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 new clutch is symmetrically machined and allows the installation into fixed gear bikes ("Fixies"). Full torque on both direction is allowed!

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 two different gear ratios if the axle is coupled either with the sunwheel or the planet carrier.

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



The design allows to strip down the system without any special tools, if ever required.

Thanks to the enclosed housing, **mountain-drive** is protected against dust, water and other environmental influences.

Indeed, never clean a **mountain-drive** with high pressure water!

We just have a couple of customers, who have driven several 10'000 miles without having had any wear on the internal parts of their **mountain-drives**.