

Haberstock Mobility - Schlumpf Mountain Drive

Technical data

Principle Planetary gearing system with two switch positions: direct drive 1:1, low gear

2.5:1

Shifting Direct shifting via push bttons or "easy-shift" - levers on both ends of the

spindle. No cables, no rods.

Easy-shift levers As an option, there are "easy-shift" - levers available, which make shifting

very simple, even with click-in pedals or small shoes.

Gear housing Corrosion resistant, completely encased and protected against dust and

spray water.

Axle Rides on (replaceable) cartridge bearings. Please expect a lifetime of more

than 20'000 miles for the bearings and much more for the *mountain-drive*).

Axle length Standard is 138mm for bottom bracket widths of 68 - 73mm. A 10mm longer

axle is available for bottom bracket withs up to 84mm.

Bottom brackets The *mountain-drive* unit is designed for an inner diameter of the bottom

bracket of 33.6 - 34mm. The *mountain-drive* part, which is slid into the b.b., has no thread. Shims to equalize an eventual play are included in the shipment. Adapters for larger diameters are available (please specify

diameter when ordering).

Chainline Distance between centerline of frame and midth of chain: 43, 45 or 50mm for

a 68mm wide bottom bracket shell. For 43mm, please ask for 2mm spacers, which can be set between spider and chainring. For the 50mm-chainline please use the steel spider, which is available as an option (recommended for higher loads such as on tandems, rikshaws, transportation bikes). Also recommended for two chainrings (one fitted to the left, one to the right side of

the spider).

Compatibility Generally, you can combine any bicycle gearing system with *mountain*-

drive.

For heavy use such as for transportation bikes, rikshaws, tandems, please use hubs, which are designed for tandems. These is for example the 5-speed SRAM cargo hub. With 7-, 8-, 9- and 11-speed-hubs and all types of chain derailleur systems no problems have been reported in the past couple of years, when thousands of *mountain-drive* - systems have been combined

with many different gearing systems.

Please do not combine *mountain-drive* with the Rohloff 14-speed hub. The Rohloff hub has a strict limitation of the entry torque, and may only be

combined with speed-drive.

All *mountain-drive* - systems may be combined with coaster brakes. Starting with model year 2010, all gearing systems come with a symmetrically machined clutch, which allows to use them on fixed-gear bikes without any

restrictions.



Cranks Crankarms sit conventionally on square spindle sections.

Standard type is 170mm with straight shape.

Standard material: aluminum

Available as an accessory are the following special types: 155mm (alu,

straight shape), 170mm (alu, off-set shape)

Other special lengths (all aluminum, offset-shape): 102, 114, 127, 140, 160,

165, 172.5 and 175mm

Most of these cranks are available in silver or black finish.

For the standard straight 170mm crank, "easy-shift" - levers are available, which are simply clamped between pedal and crankarm and can be

retrofitted to any mountain-drive.

Chainrings Standard chainrings are made of lightweight aluminum.

Bolt circle diameter (BCD): 110, 130mm

We offer the following sizes:

- 27 tooth chainring, directly screwed on the *mountain-drive* housing

- with BCD 110mm: 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 53

- with BCD 130mm: 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 60, 65, 70, 75

- other sizes and materials on request

Trouser guards We offer good quality aluminum trouser guards for all chainring sizes up to

56t.

Weight Including spindle, bearings and spider, excluding chainring and cranks: 900g

(46 tooth chainring with chainring bolts: 105g, cranks 230g each).

Please compare the total weight of mountain-drive with the total weight of a

triple chainring set including shifter, cable, derailleur.

Efficiency High quality planetary gearing systems have efficiencies of about 95 - 97%.

By using only the best technology for gears, bearings and lubrication, we try to get to the highest possible level. The possibility to easily lubricate the *mountain-drive* gearing system guarantees to keep this high level for

lifetime.

Load mountain-drive can be used for tandems. Please use steel spiders for

tandem and other heavy duty applications.

mountain-drive is designed for a torque of 250Nm.

Delivery The *mountain-drive* unit comes ready for installation, including chainring of

your choice (extra charge for chainrings larger than 48 teeth), a pair of

crankarms, and detailled installation instructions.