

Haberstock Mobility - Schlumpf Speed Drive

Technical data

Principle The *mountain-drive* unit comes ready for installation, including chaining of

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

crankarms, and detailled installation instructions.

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.

Two different models are available:

speed-drive model 08: exchangeable chainrings (made of hardened steel)

with 27, 28, 30, 32, 34, 36, 38, 40, 42t., hold by a circlip

speed-drive BCD110: 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 53t. (34 - 42t. made of hardened steel, 44 - 53 aluminum). Chainrings with 5 holes and bolt

circle diameter (BCD) 110mm

Please notice: if you want to use standard BCD110-chainrings, the inner diameter has to be turned out to 96mm (instead of 94mm of standard

chainrings).

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

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

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

Bottom brackets The speed-drive unit is designed for an inner diameter of the bottom bracket

shell of 33.6 - 34.5mm. The **speed-drive** part, which is slid into the b.b., has no thread. It is perfectly centered by conical rings. The bottom bracket has to

be chamfered on both sides at 45°.

Chainline Distance between centerline of frame and midth of chain: 42, 44 or 49mm.

For 42mm, please ask for 2mm spacers, which can be set between spider and chainring. The chainring can be fitted at the outer side of the spider (-> chainline 49mm) without a special spider (the **speed-drive** spider is part of

the steel gearing house).

Compatibility Generally, you can combine any bicycle gearing system with **speed-drive**.

For heavy use such as for Long Johns, rikschas, tandems, please use hubs, which are designed for tandems. These are 3- and 5-speed - SRAM - hubs. With 7-speed-hubs from SRAM, Shimano hubs and all types of chain derailleur systems no problems have been reported in the past couple of years, when thousands of **speed-drive** - systems have been combined with

many different gearing systems.

You can combine **speed-drive** with the Rohloff 14-speed hub. All **speed-drive** - systems may be combined with coaster brakes.



Cranks Crankarms sit conventionally on square spindle sections.

Standard length is 170mm

Material: aluminum

Available as an accessory are the following cranks: 155mm (straight shape), 160, 165, 170, 172.5 and 175 (all off-set shape. Other sizes on request. 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 speed-drive.

Chainrings speed-drive model 08: 27, 28, 30, 32, 34, 36, 38, 40, 42t.

speed-drive BCD110: 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 53t.

Trouser guards We offer high quality aluminum trouser guards for all chainring sizes.

Weight Including spindle, bearings and spider, excluding chaining and cranks: 790g

(46 tooth chainring with chainring bolts: 90g, cranks 220g each).

Please compare the total weight of **speed-drive** with the total weight of a triple chaining set including shifter, cable, derailleur. Example: Shimano

Altus (48/38/28 teeth): weight incl. right crankarm: 1255g

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 **speed-drive** gearing system guarantees to keep this high level for lifetime.

Load speed-drive can be used for tandems.

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

choice (extra charge for chainrings larger than 48 teeth), both crankarms,

detailled installation instructions.