

Haberstock Mobility - Schlumpf High Speed Drive

## Technical data

**Principle** Planetary gearing system with two switch positions: direct drive 1:1, overdrive

1:2.5

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

spindle. No cables, no rods.

New ergonomic design of the gear shift push buttons.

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

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

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

spray water.

Gear housing with integrated 27 tooth chainring and trouser guard.

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 *high-speed-drive*.

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

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

bracket of 33.6 - 34.5mm.

**Chainline** Distance between centerline of frame and midth of chain: 45mm.

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

drive.

Please note, that *high-speed-drive* in combination <u>with internal hubs</u> sometimes can act like a violin body. This means, that in certain gears (often the first gear) you may feel some roughness, although *high-speed-drive* runs

perfectly smooth and silent.



**Cranks** Crankarms sit conventionally on square spindle sections.

Standard length is 170mm Standard material: aluminum

Available lengths: 155 (straight shape), 160, 165, 170, 172.5, 175mm (all

offset 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 high-speed-driv

**Chainrings** Material: Alu 7075 Tooth count: 27

Integrated trouser guard



Adapter for larger chainings of 30 (=75) or even 34 (=85) teeth.



34t. chainring.

Easy to mount. It is hold by a simple circlip.



We deliver aluminum trouser guards for all chainring sizes.



Adapter for BCD130mm. The adapter is fitted to the gear housing like the chainrings above.

BCD130mm allows chainrings of 38t. or more to be mounted.

Weight

Including axle, bearings, chainring and trouser guard, without cranks: 900g (crank: 220g)



## **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.

All gears are precision-grinded!

The possibility to easily lubricate the *high-speed-drive* gearing system guarantees to keep this high level for lifetime.

Load

high-speed-drive can be used on tandems.

**Delivery** 

The *high-speed-drive* unit comes ready for installation, with both crankarms, chainring, trouser guard and detailled installation instructions.

## Warranty

**high-speed-drive** comes with a 5-years warranty for perfect function and a lifetime warranty against brake for clutch and gears.

Please note, that this warranty does not cover damages due to lack of lubrication.