



The Scorpion has been designed to create what is probably the most sophisticated touring trike you can buy. The ride is exhilarating – fast and controllable – yet you can carry enough gear for a fully loaded tour with minimum compromise to handling. The suspension and HP Velotechnik's famous BodyLink seat or the breathable ErgoMesh seat spoil you with comfort ...and yes, it does come from the country of Fahrvergnügen!

Fahrvergnügen guaranteed. Scorpion. The fast touring trike from HP Velotechnik.

Sometimes, German engineers can get surprisingly excited. It is those special moments, when nature and advanced technology come together, such as when our development engineer Daniel Pulvermüller takes the fast Scorpion trike out on a test ride. While he concentrates on checking the Scorpion's great road holding, rapid suspension action and tight turning circle, the broad grin on his face reveals better than any measuring instrument: yes, it does have plenty of *Fahrvergnügen!*

Of course it is not only the thrilling ride that sets our Scorpion trike apart. When we decided to bring HP Velotechnik's recumbent innovations and renown build quality to the trike world, it was a logical step: we combined our famous adjustable *BodyLink* seat ("...the seat that fits your body like a glove") with our sophisticated suspension system and an extremely stiff, lightweight, heat treated aluminium frame. The cross member is bent up and forward to meet the sturdy wheels up front, giving a long wheelbase for safe braking, easy access to the seat and avoiding heel interference for smaller riders. Obviously, the most fun a trike designer can have is to create the steering geometry so that the trike handles precisely and reliably especially when fully loaded – we'll spare you the details by not explaining why our steering is just not exactly *centre-point* and why we think dynamically and

deviate from the so beloved static *Ackermann compensation*. (Too much engineering fame for a British antiques merchant, anyway.)

Our suspension system is fully integrated into the frame design and isolates your body from road vibration. It is fully tunable for performance and works completely independently of your pedalling force. We call this *No Squat design*, and it is a system that has been perfected over thousands of miles of extreme roads by our team of test riders. What it means is, if you accelerate uphill, you accelerate.

We haven't neglected the accessories either. We can offer an integrated, suspended luggage rack that actually deserves its name by carrying 56lbs of your equipment, proper mudguards and our practical front fairing. Of course it is the technical details that make the difference, and in this area our experience is second to none. We made our first tricycle with full suspension back in 1991. Since then we have focussed on two-wheelers and our Street Machine has become the most successful touring recumbent on this planet. Our customers have taken our bikes to every corner of the world and they have provided us with invaluable development feedback. Now, our Scorpion trike combines long distance riding comfort with incredible performance. Arrange for your personal test ride soon, and prepare to be amazed!





Streamer fairing with Quickmount assembly.



HP Velotechnik's open knuckle design for easy wheel removal with one allen key.



Sturdy wheels with black anodized rims and high pressure tires.



Protection for the chain and your trousers; the drivetrain is almost completely covered. Our special low friction chain tubes guarantee an efficient power transmission and silent action.



Due to the low centre of gravity and the well balanced weight distribution the Scorpion handles fine even when braking hard. The standard disc brakes offer great stopping power, allowing for a fast yet safely controllable downhill ride. Each wheel has its own brake lever so you can concentrate the braking power at the inner wheel in sharp turns. HP Velotechnik's famous steering geometry avoids any unsafe brake steer or bump steer. Optional coupled front brakes for one-hand operation of both brakes.



Comfortable ergo-bars under the seat for relaxed arms and wrists. HP Velotechnik's refined steering geometry combines stable high-speed handling with a very small turning circle of 4.8 m diameter. Kingpins equipped with sturdy adjustable A-head-type bearings; steering rod ends with maintenance free bushings; maintenance free cartridge bearings at the stem pivot.

Comfortable seat options: The ErgoMesh seat provides optimum breathability and good side-support. Alternatively, our BodyLink hardshell seat can be adjusted to fit your body like a glove.

Plenty of space for your luggage, and it is all fully suspended. The rear rack is a rigid construction made from 1/2" alloy tubing, designed to withstand the high lateral forces when cornering on a trike. Extra 10 mm support tubes to hang panniers lower. Integrated flag mount and rear light protection tube. Great aerodynamics and high packing volume are combined in our custom tailored Moonbiker-panniers.



You can tow trailers (double track) of up to 88 lbs weight.

Our No Squat suspension system is integrated into the frame design. It is fully tunable for performance and works completely independently of your pedalling force. What it means is, if you accelerate uphill, you accelerate. And because it isolates you completely from the road, your energy goes entirely into forward motion.

Specification

- Scorpion basic model** DNM DV-22 rear shock, AVID BB7 mechanical disc brakes .. \$3,295
- SRAM DualDrive 24 speed drivetrain, tires SCHWALBE Tryker 40 mm
- Custom color** powdercoating according to RAL-color chart \$149
- Carbon fiber front boom** saves 170 g (1/3 lbs) weight \$229
- Rear shock upgrade DT Swiss XM180** air shock, adj. damping, lock-out \$390
- Bar-end shifters** for DualDrive, 27 speed, SHIMANO XT derailleur + cassette \$349
- Drivetrain SHIMANO XT** 27 speed, 60-52-40, 11-34 teeth \$399
- Drivetrain DUALDRIVE/XT81** 81 speed, SHIMANO XT derailleur + cassette \$449
- Drivetrain ROHLOFF** Speedhub 500/14 DB, 14 speed internal gear hub, black \$1,490
- Drivetrain BIONX PL250M** power assist 26 V Li-Ion 250 Wh, incl. SRAM X4/24 drivetrain \$1,990
- Drivetrain BIONX PL250HTSL** power assist 48V 423 Wh, incl. XT/27 drivetrain, throttle \$2,890
- Short cranks** 155 mm, recommended for riders under 175 cm / 5' 7" \$35
- Disc brakes AVID BB7 mechanically coupled** front brakes, one-hand actuation . \$59
- Disc brakes TEKTRO Auriga** hydraulic, each front wheel separate \$85
- Disc brakes TEKTRO Auriga coupled** hydraulic \$239
- Disc brakes SHIMANO XT** hydraulic, each front wheel separate \$329
- Parking brake** AVID V-brake with thumbshifter (not for coupled brakes) \$49
- Onehand actuation** TEKTRO Auriga / DualDrive / parking brake \$625
- Tire exchange** from SCHWALBE Tryker to Marathon Plus or BigApple \$29
- Light system B&M Dymotec 6** tire generator with standlight \$189
- Light system SON hubgenerator / IQFly** with standlight, up to 40 lux \$549
- Light system SON hubgenerator / Edelux** front light up to 80 lux \$639
- Rear rack** 10 mm tube Al 6061T6, max. 25 kg / 55 lbs load \$169
- Mudguards** HP Trikefender, black \$199
- Mudguards** HP Trikefender Carbon fiber \$529
- Airflow seat cushion** air permeable fabric, 3 layer system, for BodyLink \$115
- Head rest** height and angle adjustable \$99
- SeatWings** hip support for BodyLink, carbon fiber, for optimum side support ... \$199
- Rain cover** for seat \$19
- Microbag** Top bag for BodyLink seat, detachable as hip bag, holds 1 liter \$49
- Clipless pedals SHIMANO PD-A530** \$55
- Water bottle set Moonbiker** 2x0.6 l clear PE bottles, mounted \$49
- Rear mirror Mirrycle** with bar-end-mount, doubles as computer mount..... \$39
- Recumbent side bags Moonbiker** 2x35 l volume, aerodesign \$299
- Standing-up aid** grip for easy mount and dismount..... \$69

Frame and seat adjustable for riders from 1.65 - 2.00 m / 5' 5" - 6' 7". Spring rates: 350lbs/" max. 176lbs, 450lbs/" max. 220lbs, 550 lbs/" max. 330 lbs.

Technical Data

- seat height 26 cm / 10"
- seat angle 33-42°
- pedal axle height 34-39 cm / 14"
- suspension travel 8 cm / 3"
- wheel size 20" (ISO 406)
- wheelbase 109 cm / 43"
- track width 78 cm / 30 3/4"
- width 83 cm / 32 3/4"
- length 170-200 cm / 72"
- turning circle 4.8 m / 189"
- weight from 16.1 kg / 35 1/2 lbs
- frame Al 7005 T6
- suspension pivot maintenance free
- powdercoating pearl orange
- (color and clear layer) dark blue RAL 5004
- custom color
- warranty on frame ... 10 years

Your dealer



Excellent service and test rides are provided by the HP Velotechnik dealers in North America and abroad. For detailed up-to-date information please review our website at www.hpvelotechnik.com. Suggested retail prices in US\$, including duties and standard shipment to dealer. Specification subject to change without notice. Illustrations show special components. Valid from November 2011.