

INVACARE® TOP END®

# Force™ R

Handcycle



Yes, you can.®

## The Invacare® Top End® Force™ R Handcycle is super sonic

The Force R Handcycle is the latest super-recumbent handcycle model in the Force racing series. This handcycle is designed for one thing and that is performance. It is aerodynamic, stiff, stylish and yes, FAST. The Force R Handcycle is outfitted with everything you need to move up to the next level and built with heat-treated 7005 aluminum internally ribbed tubes. *Get the Force R and break the speed of sound.*



David Randall  
USA Paralympic Cycling Team

### Features

- Ovalized 7005 aluminum frame with varied wall thickness
- Wrap-around ovalized lower aerodynamic design
- 7005 aluminum aerodynamic tapered front fork and footrests
- Vertical adjustable crank housing
- Super-reclined adjustable back angle
- Seat and back mesh upholstery cushions with adjustable head support
- Adjustable seat upholstery
- Multi-position adjustable footrest system with safety straps
- 7005 aluminum aero crank arms with frictionless pedal bearings
- Aerodynamic chain guard
- Ovalized aluminum ergonomic handpedals
- SRAM® and Top End 27 speed components
- SRAM Grip Shifter hands-on shifters/Paul® brake for 11-32 cassette
- Manual derailleur system for 48-40-24 chainring
- Cane Creek® SCR-3 caliper brake
- Steering dampener
- 26" high performance wheels with 3° of camber
- High pressure clincher tires
- Threaded axles
- Drafting bumper
- Parking brake
- Reflectors
- Positioning straps (3)
- Powder coat paint

*Invacare® Top End® Force™ R Handcycle shown with optional Zipp® Time Trial wheel package and handpedals with power plates.*



The **2010 Invacare® Top End® Force™ R Handcycle** is all about comfort, speed and aerodynamics. Starting at the front, the footrests are curved inward, which keeps your feet closer to the wheels for a true aerodynamic position. The redesigned narrow fork allows legs to be even closer together, minimizing body profile against the wind.

The main frame is built from 7005 aluminum which is custom pre-curved, extruded aluminum tubing with an oval profile, making it super stiff for maximum transfer of power. The new curved frame and computer aided teardrop design of the Force R Handcycle's low-to-the-ground frame is sleek, stable and lighter weight than ever.

In addition, the unparalleled aerodynamic design of the Force R Handcycle offers an adjustable, lie-down or recumbent position with an easy-to-adjust backrest and crank support. This position, combined with our effortless adjustments and new lighter weight foam covered in breathable mesh upholstery with cervical support ensures optimum comfort using mostly arm, shoulder and chest muscles.

The frictionless hand pedals with 7005 aero crank arms make it seem like you are flying because it is so effortless to go fast... especially with SRAM® components. The 27 speeds operated are by the SRAM Grip Shifter/brake unit and deliver smooth, responsive shifting/braking right at your fingertips. The no cable, virtually maintenance-free manual upper derailleur system takes the guess work out of the chain rings. Control through the turns is super smooth yet fast with our steering dampener system. The 26-inch high performance wheels are outfitted with high-pressure clincher tires and threaded axles. Other standard features include a drafting bumper, chainguard, safety flag, parking brake and mesh upholstered cushions for seat, back and headrest. Check out the professional-level shifters, cassette, brake and chain ring upgrades, plus the time trial wheel package, for maximum performance and speed.



Fork is super stiff with an ovalized upper tube, longer headtube, 2" of vertical adjustment and a bicycle headset. Plus its easier than ever to remove the fork for travel



Fork dropout design is super strong



Breathable Mesh Upholstery for seat, back and headrest cushions



Vertical crank adjustment



High performance wheels feature a black hub, rim and spokes for a sleek look

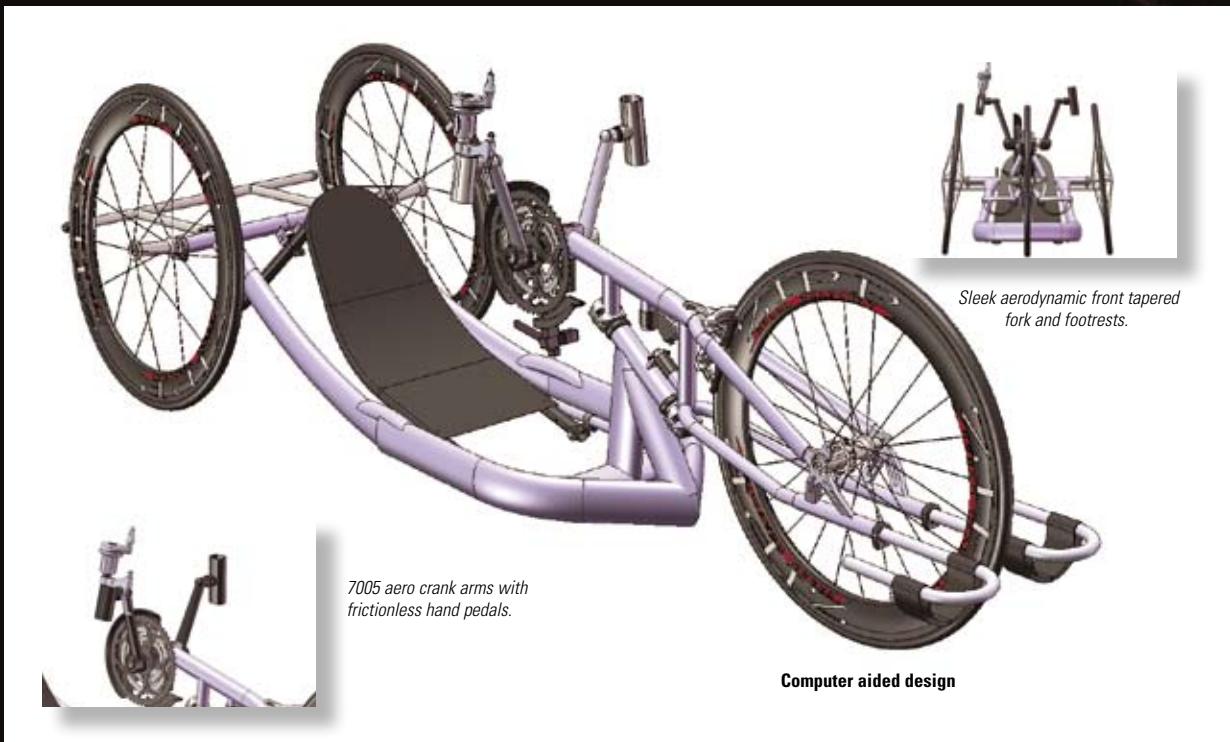


Optional fork mounted SRAM trigger shifters

## Upgrades and Options

- Carbon fiber wheels
- Time Trial wheel package
- SRM® Training system
- SRAM® Trigger shifters: handle or fork mount
- SRAM Cassette 11-23 or 11-26
- Chain ring 53-40-24
- Cane Creek® SL caliper brake
- Disc brake
- Hand pedal power plates
- Small and large hand pedals
- Continental® Grand Prix clincher tires
- Continental Sprinter tubular tires
- Heart rate monitor
- Alignment gauge
- Backpack hydration system
- Water bottle and cage
- Cordless computer
- Helmet
- Safety lights, mirror and extra safety flag
- Click straps
- Bike rack
- Indoor training roller
- Extra cable kit
- Leg guard attachment
- Wheelbag
- Tool and tire repair bag
- Handcycle travel bag
- Top End bike jersey

The Invacare® Top End® Force™ R Handcycle offers easy-to-adjust backrest and crank support systems so you can dial in your ultimate position. Choose the adjustable footrest style best suited for you.



Sleek aerodynamic front tapered fork and footrests.



7005 aero crank arms with frictionless hand pedals.

Computer aided design

**Top End**

www.topendwheelchair.com  
Sports and Recreation  
Products  
4501 63rd Circle North  
Pinellas Park, Florida  
33781-5914  
(727) 522-8677  
(800) 532-8677  
Fax: (727) 522-1007

**Invacare Corporation**  
www.invacare.com

**USA**

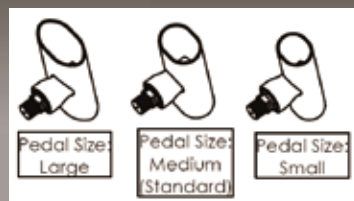
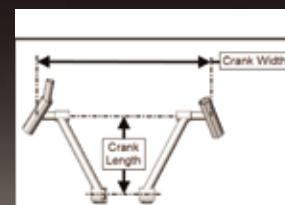
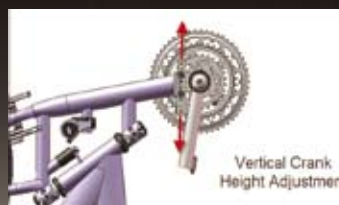
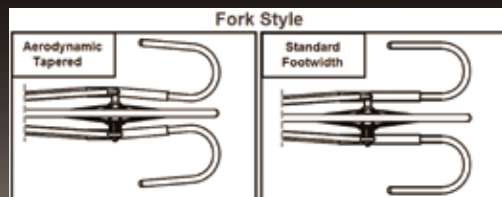
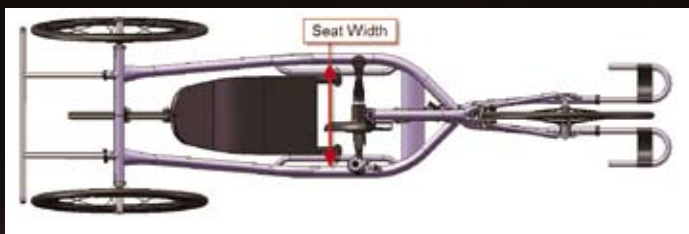
One Invacare Way  
Elyria, Ohio  
44035-4190  
(800) 333-6900

**Canada Office**

570 Matheson Blvd. E.  
Unit 8  
Mississauga, Ontario  
L4Z 4G4 Canada  
(800) 668-5324

**Measurements are easy too.** All that is needed is the seat width and crank width/length. The crank width and length are determined by the shoulder width and arm length, respectively.

The crank width is measured horizontally, center to center, to the point at the middle of the handpedal, with 14" being the most common. The length of crank arms depends on the length of the arms. The length is measured perpendicular from the center of the crank to the center of the handpedal spindle and 175 mm is the standard.



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Choice of 18 brilliant powder coat paint colors.

