

MODEL N171B NuVinci® CVP

The award-winning NuVinci Continuously Variable Planetary (CVP) revolutionized drivetrain technology with a new class of highly adaptable and scalable continuously variable transmission (CVT). Transmitting mechanical power with spheres instead of gears, the NuVinci Smooth Cruise CVP™ has proven to be the perfect replacement for internally geared hubs and derailleurs on comfort, cruiser and commuter bicycles.

Now the next generation NuVinci CVP makes that smooth revolution even smoother. NuVinci-equipped bicycles offer riders the quietest, most comfortable ride ever. No more missed shifts, dropped gears, hesitations or gear lash. Adjusting gear ratios to the terrain and the individual's riding style, is as effortless as adjusting the volume on a radio. With the infinitely variable NuVinci CVP, the rider is always in the optimum gear! It's the perfect drivetrain for riders intimidated by conventional shifting, and anyone else who's looking for a smoother, simpler, more enjoyable ride.



NuVinci CVP Technology. Driving Change.

- Easy-To-Use • Highly Durable • Maintenance-Free
- 6-Year Limited Drivetrain Warranty* – Three Times the Competition

- Proven, award-winning technology: winner of 2007 R&D 100 award; 2007 Innovation of the Year and Bike of the Year (Batavus Adagio-NuVinci) awards at FietsVak, The Netherlands; 2007 Popular Science Grand Award for "Best of What's New-Recreation" for the NuVinci-equipped Ellsworth Ride™ Performance Lifestyle bicycle, and 2008 EUROBIKE Gold Award.
- Easiest shifting ever! Variable planetary configuration provides extremely smooth ratio changes. The rider is always in the optimum gear! And there is always power transfer!
- Simple twist controller enables easy, infinitely variable ratio adjustments while pedaling, coasting or stopped.
- The next generation NuVinci CVP advances the state of the art in elasto-hydrodynamic lubrication and traction CVT technology to new levels.
- World class reliability, durability and OE quality due to strong automotive "DNA."
- Enables a new class of bicycles that will attract more riders and grow the industry, including comfort/cruiser riders, technophiles, performance lifestyle and luxury riders of all ages and experience levels.

*Some conditions apply, ask for details.



2008



2007



2007



2007



2007



www.nuvinci.com



FALLBROOK®
TECHNOLOGIES

Driving the NuVinci® Revolution Further.

The first NuVinci CVP was an industry-changing innovation: a CVT that also functions like a planetary gear set. Its configuration includes a central idler, a set of balls distributed about the idler, a rotatable input disc on one side of the idler and the balls and a rotatable output disc positioned on the other side of the idler and the balls. Tilting the axes of the balls varies their respective contact diameters with the input and output discs, varying the transmission ratio.

The next generation NuVinci CVP improves on this innovative design. The result is a drivetrain that offers a smooth, seamless and continuous transition to any ratio within its range, maximizing overall powertrain efficiency.

Riders can adjust gear ratios continuously as the wind or terrain changes to maintain the perfect cadence throughout the entire ride. This total control provides a smooth ride unlike any other bike.

For a video demonstration of NuVinci CVP technology, please visit www.nuvinci.com.

Specifications

Speed Ratio Steps	Infinitely variable within ratio range
Shifting	Variable, twist shifting
Brake Options	Rim, Disc, Roller
Hub Shell Material	Aluminum
Corrosion Resistant Coating	Yes
Controller Material	Nylon, 30% Glass Filled
Ratio Speed Range	350% (0.5 Under-Drive To 1.75 Over-Drive)
Drop-out Width	135mm Horizontal or Vertical
Spoke Holes	32, 36
Sprockets Supported**	16, 17, 18, 19, 20, 21, 22 (standard freewheels)
Chain-line	51.5mm ± .5mm
Average Weight (includes mounting hardware)	3.8 to 3.9 kg.
Hub Colors	Black, Silver
Controller Color	Satin Black

**Maximum input torque: 130 Nm at the hub; Minimum Allowable "Front Chain ring" / "Rear Sprocket" ratio: 2.0:1
Freewheel not included



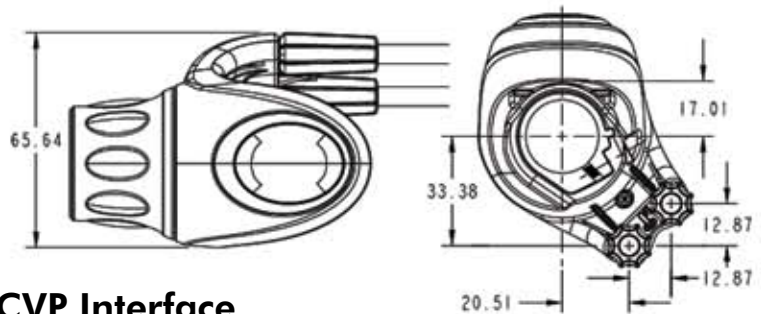
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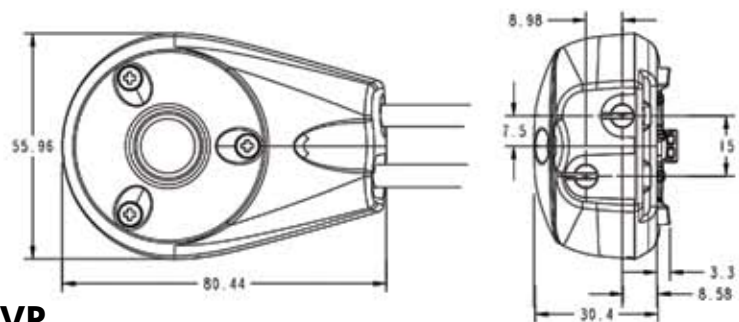
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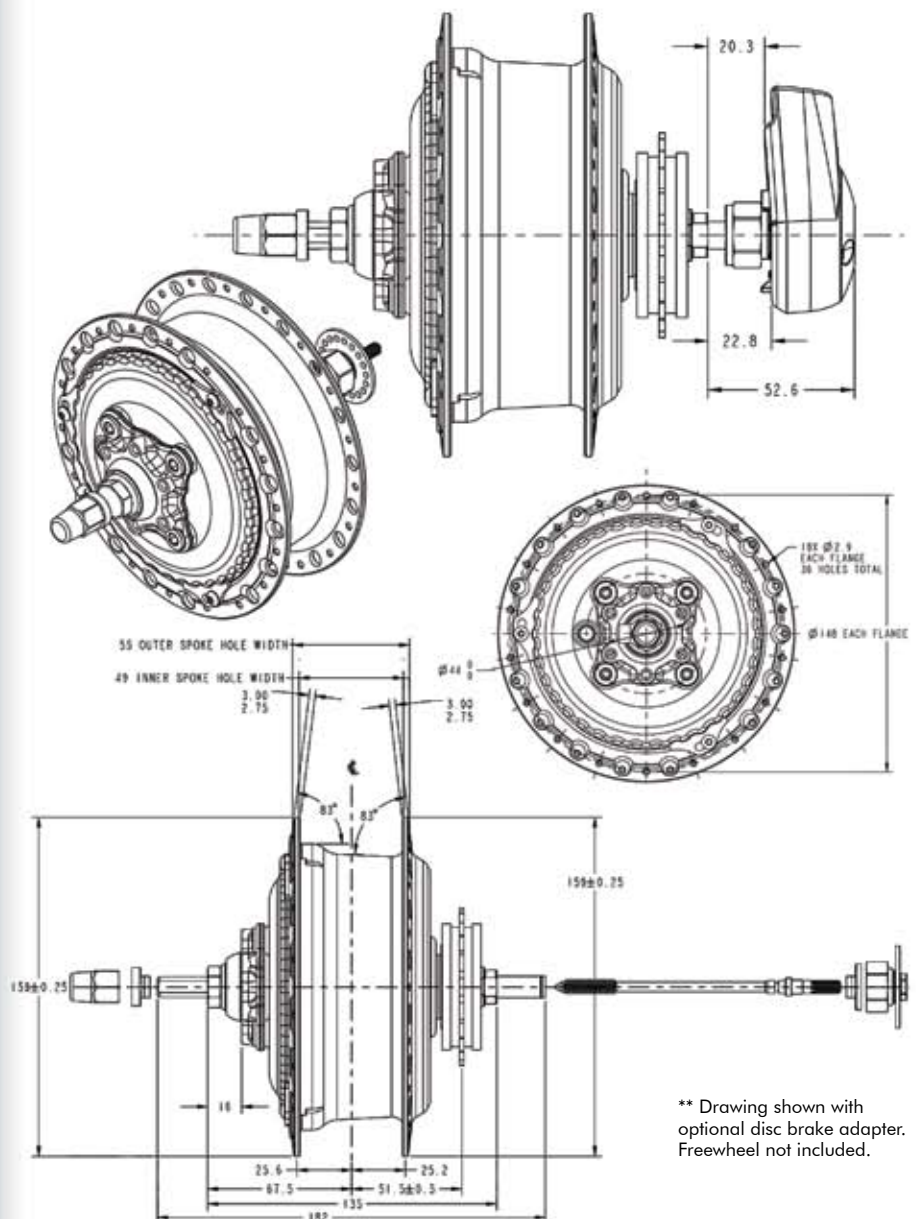
Controller



CVP Interface



CVP



** Drawing shown with optional disc brake adapter. Freewheel not included.