

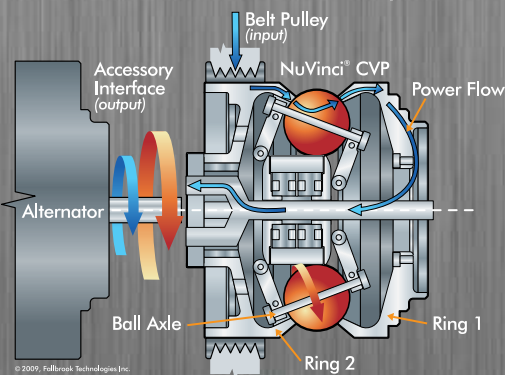
Now Available  
for Beta Fleet Tests

## NuVinci® CVAD - Alternator Model: 43CVP-A01 U-Drive

The NuVinci Continuously Variable Accessory Drive (CVAD) is an energy management system that enables unprecedented ability to change accessory loads and outputs on the fly for improved performance. It also provides dramatically higher accessory output (up to 75% improvement demonstrated) at low engine speeds, while maintaining reliable accessory operation at high engine speeds.

An Alternator CVAD using the NuVinci Continuously Variable Planetary (CVP) transmission improves alternator performance by decoupling the alternator from engine speed, allowing the alternator to produce maximum current regardless of engine RPM.

Power at Idle - Alternator Accessory



### NuVinci Alternator CVAD

#### delivers:

- Increased power at idle
- Increased capacity for alternators at low engine speeds
- Ability to downsize alternator capacity
- Reduced alternator load; reduced engine startup torque requirements
- Improved battery life
- Quiet smooth operation
- Compact packaging



www.nuvinci.com

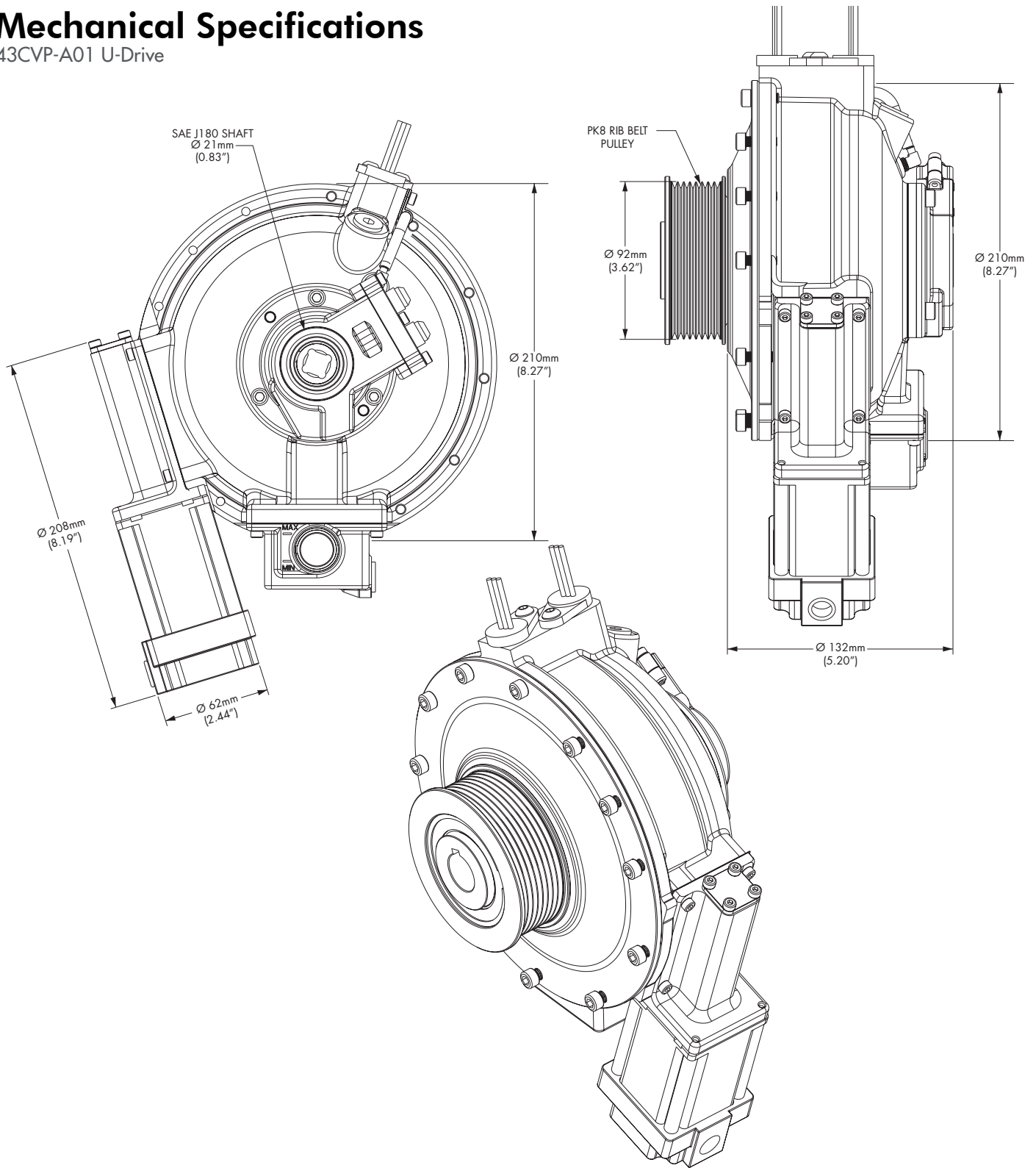
## Specifications

43CVP-A01 U-Drive

Packaging	<b>As shown on reverse side:</b> Includes internal lubrication pump. <b>Not Shown:</b> Remote mounted Heat Exchanger, NuVinci Control Unit and inline filter of 8 microns
Power Capacity	12kW peak (10% Duty Cycle) 8kW continuous output (75% Duty Cycle)
Max Speed	8,000 rpm output
Max Torque	120 Nm (89 ft-lbs) output
Ratio Range	Lowest Ratio 0.5:1, Highest Ratio 1.85:1 (370% Ratio Range)
Shift Speed	600ms from lowest to highest ratio
Weight	~11 kg (~25 lbs)
Mechanical Interface	<p>Output Mates to:</p> <p>Input: PK-Type 8 rib serpentine belt Minimum Pulley Diameter: 83 mm Orientation: CW operation (when viewed from front of vehicle)</p>
Electrical Interface	<p>Molex-MX 150 8 pin Connector</p> <ul style="list-style-type: none"> <li>• Battery (12 or 24 V)</li> <li>• IGN (12 or 24 V)</li> <li>• GND</li> <li>• (available for use)</li> </ul>
Cooling System and Lubrication	<p>Fluid for traction and cooling: Valvoline Invaritorq™ traction fluid Fill: 750mL Internal circulation pump: 2 gpm at 9psi. Heat Exchanger: Thermal Dynamics International 9"x12" Temperature Range: Components specified for automotive underhood temperature extremes</p>

## Mechanical Specifications

43CVP-A01 U-Drive



**To speak to an Applications Engineer please contact Fallbrook at:**

**Fallbrook Technologies Inc.**

505 Cypress Creek Road, Suite C  
 Cedar Park, TX 78613

Tel: +1 (888) NuVinci (688-4624)

Tel: +1 (512) 279-6200

Fax: +1 (512) 267-0159

support@fallbrooktech.com

For additional information,  
 please visit our web site or contact us at:

**www.nuvinci.com**



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