



Product

CSK Overrunning Clutch

Application

Eco-marathon Vehicle

Highlights

- Sprag type overrunning clutch integrated into a 62 Series ball bearing
- Keyway on both the inner and outer race
- Formchrome® sprags for long life
- 133 lb.in. (180 Nm) torque capacity
- 4,200 RPM maximum overrunning speed

A team of engineering students from the University of Offenburg in Germany needed an overrunning clutch solution for use in their diesel-powered, peri-urban vehicle. The team was one of many from around the world competing in the annual Shell Eco-marathon which challenges students to design, build and test ultra energy-efficient vehicles.

The team contacted Stieber Clutch to request a CSK30 PP overrunning clutch which allowed the vehicle to coast when the engine was not running. "The CSK clutch was selected due to its relative small size and low drag torque," said team leader Professor Claus Fleig. The clutch was positioned on the drive chain sprocket near the wheel/tire assembly.

CSK units feature ultra-hard Formchrome® sprags which provide extra-long life, maximum wear resistance and lower maintenance costs. Formchrome sprags — exclusive with Stieber/Formsprag — are made by diffusing chromium into the surface of hardened high carbon alloy steel to form a chromium-carbide alloy.

The Team Schluckspecht vehicle set a new world record in the diesel category during the 2014 competition in Rotterdam, Netherlands by traveling 389 km (241.7 miles) using one liter (.26 gal.) of fuel.

Europe
+49 (0) 6221 30470
stieber.de

US
1-586-758-5000

Asia Pacific
For a list of our AP sales offices:
altramotion.com/contactus

