

- **Aerospace Manufacturing & Design** (July issue) article on iCamFollowers® and gears used to move an aircraft antennae motion system operating at high altitude in extremely low temperatures.
- **Gear Technology** (Aug issue) on low inertia, zero-backlash gear designed for timing critical application.

POWER-CORE™ FEATURES

Anti-backlash



Long-wearing



Self-lubricating



Power-Core™ News

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Guide rollers hold camera steady on suspended race track gantry

The average speed of a NASCAR car is calculated based on the winner's lap speed through the entire race. The fastest track on the circuit is the Talladega Superspeedway, where the recorded average speed is 188 miles per hour.

In order to capture video images of the race cars as they streak along the track at these phenomenal speeds, a camera needs to resist the turbulence generated by the passing cars. Doggicam Systems adapted its patented movie camera system to create the Super Slide, a high speed light weight super-rigid rail system which allows the camera to move with precision and tremendous speed and acceleration.

A key component, that allows the Doggicam Systems Super Slide to deliver high speed precision and move safely within



Intech Power-Core™ Guide Rollers and Cam Followers® perform under the toughest conditions

inches of the subject, are Intech Power-Core™ rollers. The rollers ensure a smooth vibration free rolling transit of the camera

system along the rail, with minimum resistance, allowing it to accelerate from 0-24' / second in just one second and reach a top speed of 25' per / second.

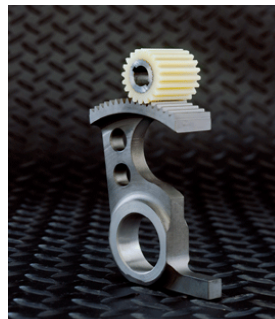
Intech Power-Core™ rollers eliminate the need to lubricate, prevent rail wear and offer a long-lasting solution in demanding conditions, from extreme heat, torrential rain, to freezing temperatures, to which the Super Slide is exposed. Intech guide rollers are also used in mechanisms that move cameras in TV studios or on film sets, where smooth, vibration free and quiet camera operation is paramount.

Call Boyka Kriakova for a complimentary consultation.
Tel. 201-767-8066 x305

Reciprocating gear segment and pinion in a high-speed card feeder

A high frequency reciprocating gear and pinion being used in a feeder to insert postcards into magazines was suffering frequent breakdowns. Sealing the gearbox to permit lubrication that would prevent wear was not an option, and so Intech was approached to design a non-lubricated solution that could accommodate shock loads 5 to 10 times higher than the running torque of the application.

Intech Power-Core™ gears exhibit a high load sharing factor, an important quality when handling



e-stops or shock loads. The load sharing factor, a measure of multiplying the load-bearing capacity of an individual tooth, is optimized for each application. Because the key way is cut into the metal hub and not the plastic, Power-Core eliminates the weak spot inherent in conventional plastic gears.

Call Tody Mihov on x301 to learn more.