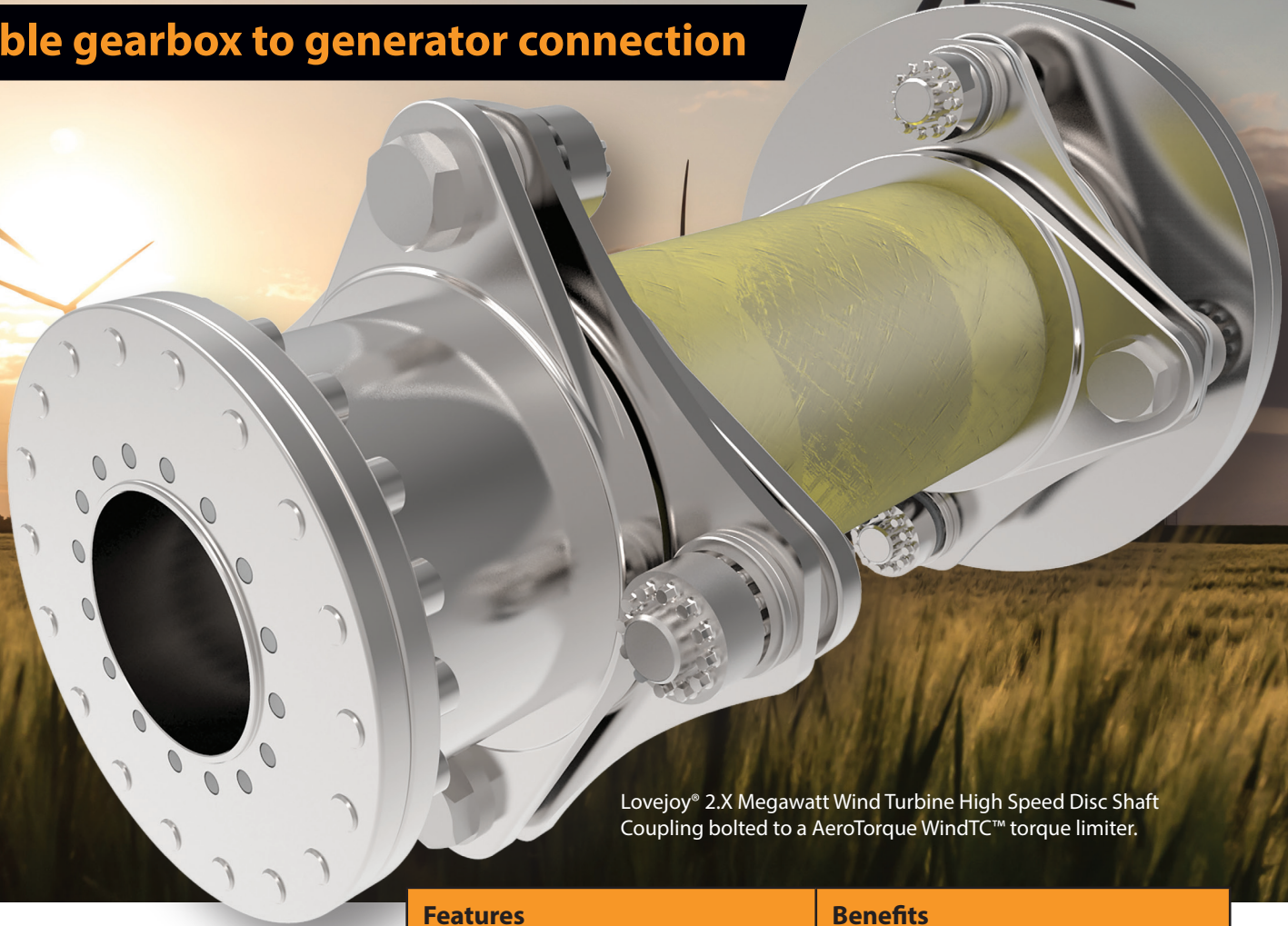


# Wind Turbine High Speed Shaft Coupling

**Lovejoy**

**Reliable gearbox to generator connection**



Lovejoy® 2.X Megawatt Wind Turbine High Speed Disc Shaft Coupling bolted to a AeroTorque WindTC™ torque limiter.

## The Next Generation

The right coupling between the gearbox and generator can transmit torque while protecting attached components from overload and stray currents. This next generation Lovejoy® coupling features a torque limiter, integrates directly with the generator hub, has an anti-flail feature, and uses a composite fiberglass spacer to reduce mass and isolate eddy currents to prevent damage.

| Features  | Benefits  |
|---|---|
| Designed to integrate directly with existing generator hub and brake disc   | Meets or exceeds OEM specifications                   |
| High Speed disc coupling is designed for the life of the machine. High quality materials. High quality engineering. | Minimal Maintenance                                   |
| Composite spacer  | Mass savings  |
| Composite spacer design   | Prevents eddy current damage to gearbox bearings      |
| Anti-flail feature  | Retention of coupling during failure events           |
| Torque Limiter (bolted)   | Provides overload protection of drivetrain system     |
| Optional: Upgrade to AeroTorque Wind TC™ torque limiter   | Provides broader overload protection (see other side) |



**Lovejoy, Inc.**  
2655 Wisconsin Avenue  
Downers Grove, IL 60515

630-852-0500  
630-852-2120 fax  
info@lovejoy-inc.com

[www.lovejoy-inc.com](http://www.lovejoy-inc.com)

ISO 9001 Certified

Lovejoy® is a registered trademark of Lovejoy, Inc.



# AEROTORQUE®

## Torsional Control Technology

**Reduces the Peak & Oscillating Loads by 40-70%**

For many years, wind turbine designers have included basic torque limiters in their drivetrain designs. Standard torque limiters in wind turbines are designed to primarily prevent couplings from failing. They can do little to damp oscillating loads.

The AeroTorque Torque control technology has been field proven since 2011 to reduce damaging loads, protecting the gearbox drivetrain from damage. The difference is significant.

### Advantages of an AeroTorque Enabled Coupling:

Available as an integrated Lovejoy coupling or as a bolt on addition to other wind couplings

Cuts peak torque by up to 40%

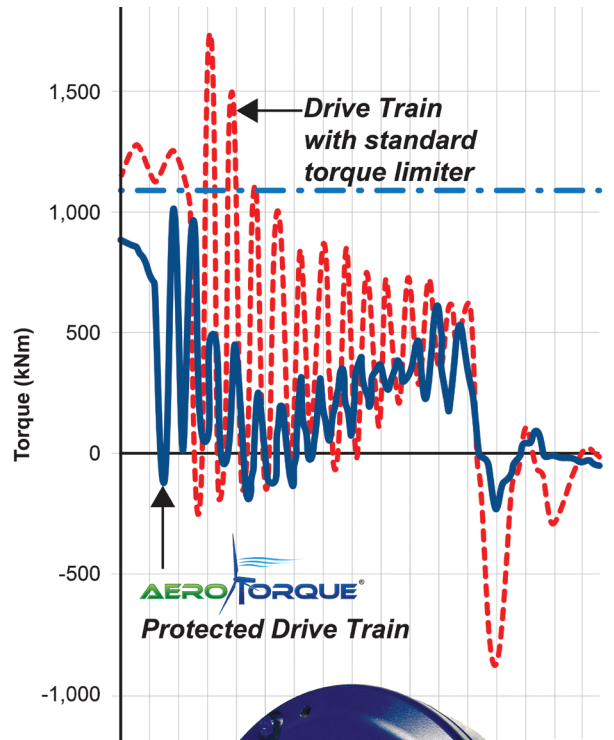
Reduces torque oscillations by up to 70%

Enables the turbine designer to optimize drivetrain cost, weight and design due to lower dynamic loads

Extends the life of Gearboxes and other components

Allows for up-sell to extended warranty offerings at a reduced risk

Can allow for optimized power curves due to lower torque loads



**AeroTorque, a brand of PT Tech, LLC**  
 441 Wolf Creek Trail  
 Wadsworth, OH 44274-0305

330-590-8105  
 330-239-2012 fax  
 info@aerotorque.com

[www.aerotorque.com](http://www.aerotorque.com)