

**oerlikon**  
fairfield

# Windpower

## Gear & Drive Solutions



**One Source. Countless Solutions.**



When it comes to wind power, Oerlikon Fairfield has a wide range of solutions to cover the most demanding drive system requirements. Gears and shafts – large or small – we maintain control. From the first cut to heat treatment and finishing, we do it all in house to ensure the highest quality and reliability.

## Windpower Gear Solutions

### Vertical mill/turn to 2 meters diameter

- Ring and Bull Gears

### Gear tooth grinding to 2 meters diameter

- Internal and external spur and helical gears
- AGMA 14 / DIN 4 (depending on gear and process)

### Horizontal mill/turn to 0.5 meters diameter and 3 meters length

- Sun pinions and high-speed pinions

### 3 to 5 axis machining centers to 2.5 x 2.0 x 2.0 meters

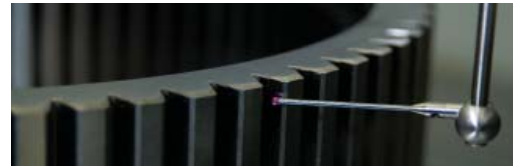
- Large planetary carriers

### Gear inspection

- CMM capability to 3.0 x 2.0 x 1.5 meters in size

### Extensive in-house heat treatment, finishing and inspection

- Carburizing, nitriding, induction hardening and through hardening
- Shot peen and super finishing
- Nital etch, magnetic particle and ultrasonic inspection



## Gear & Drive Capabilities



We don't stop at making gears. Specializing in "mid-wind" drives, we've been producing custom gear assemblies for main and yaw drives for over 30 years, and our Fairfield Torque-Hub® planetary drives have set the industry standard since 1972.

Let us design and develop a custom gear assembly to meet your specific requirements for positioning, controlling and driving. At Fairfield, we follow a world-class new product development process. This is done to ensure we deliver the best product for your requirements and ultimately, your customers.

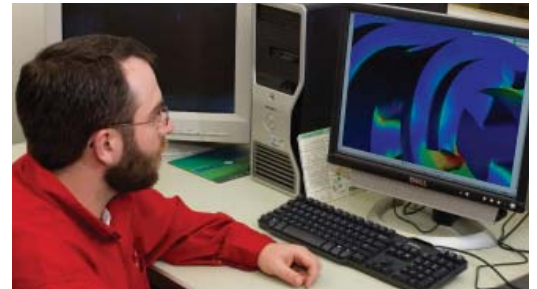
## Engineering Design & Development

Our engineering design and development teams work with you to ensure nothing is overlooked and that your main or yaw drive is well suited for the application.

We utilize the most advanced software to provide you with the following:

- Finite element analysis
- CAD/Solids modeling
- Extensive metallurgical testing
- Application testing
- Product-performance testing in lab and field environments

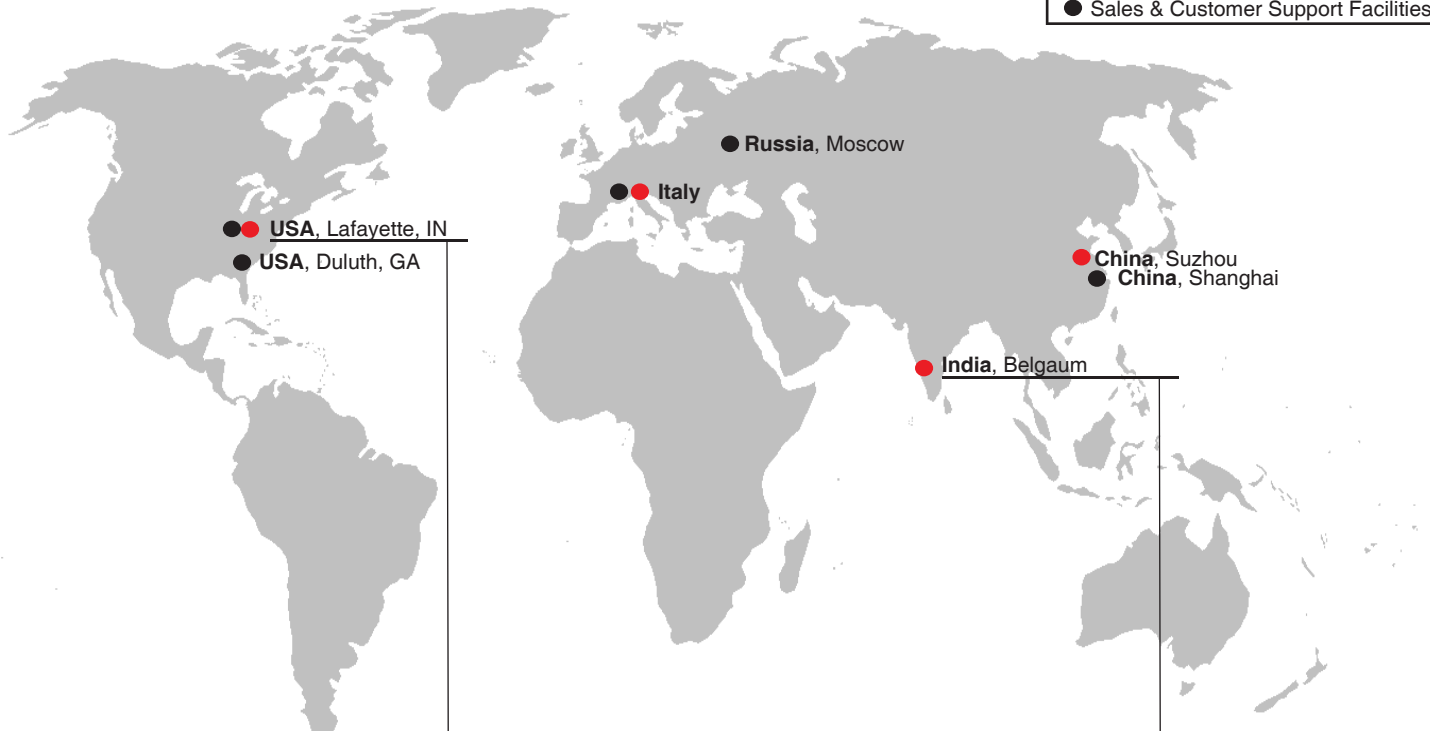
Our team will work with you to develop conceptual designs based on your input and our years of experience. We can take your design from concept through to detail design analysis, prototype design verification, field performance validation and production launch.



**Our Service. Your Satisfaction.**

# Globally Positioned to Meet Your Needs

- Manufacturing Plants
- Sales & Customer Support Facilities



**Oerlikon Fairfield Headquarters**  
USA, Lafayette, IN



**Oerlikon Fairfield Atlas**  
India, Belgaum

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