

POWERTRAIN SOLUTIONS

SOLUTION STORY



Power
Generation

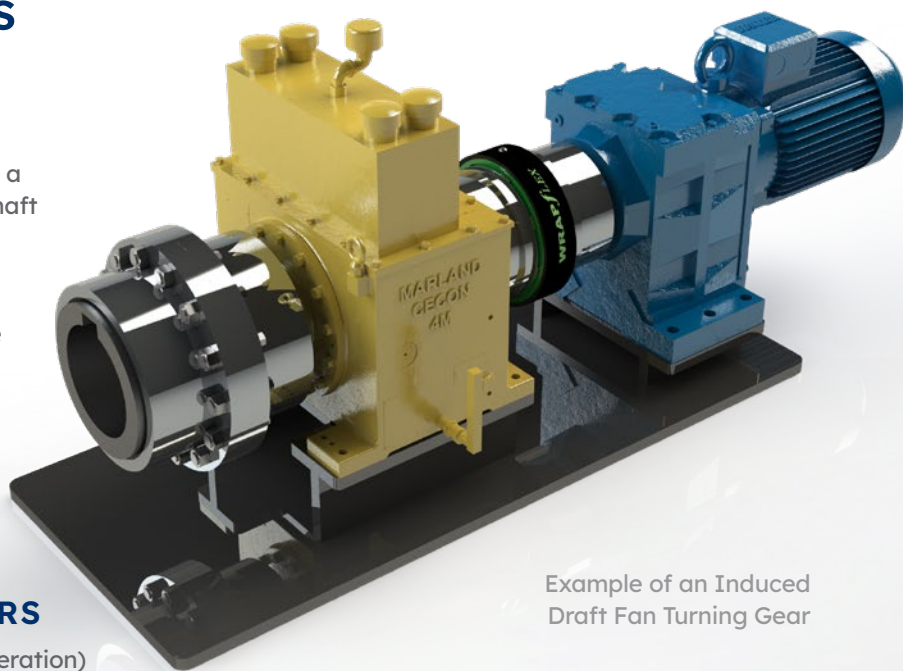
Regal Rexnord is Your Trusted Partner for Drop-In Turning Gear Solutions

BACKGROUND

Turning gears, also known as “jacking gears”, are a power transmission system placed on the main shaft of an engine, the rotor of a turbine, rotating kilns, or the shaft of an induced draft fan. They ensure uniform cooldown during the slowdown/shutdown of the main drive system or to start the unit when the main drive does not have enough torque to start the system on its own. They are vital components and can cause extensive damage to a system if they fail to turn or do not properly engage. Turning gears are comprised of a motor, gearbox, couplings, and a clutch.

MAIN TYPES OF TURNING GEARS

1. Turbomachinery (large generator in power generation)
2. Rotating kilns
3. Induced draft fans



Example of an Induced
Draft Fan Turning Gear



Reduced Downtime:
Prevent expensive repair costs with a cost-effective solution.



Trusted advisor: We provide you with detailed design drawings, assembly, fabrication work, leading to consolidation of components and vendors.



Consolidated Product Orders: One part, one price solutions to the customer for Turning Gears.

THE CHALLENGE

Turning gears are not readily available as turnkey solutions due to the variability of possible component combinations. In the design parameters like pitch line velocity, load capacity, and efficiency need to be considered. Factors like strength, wear resistance, vibration and noise must be considered to ensure proper function and performance. All requiring experience and expertise in not only the application, but the components that make up the solution.

THE REGAL REXNORD SOLUTION

Regal Rexnord has the insight and expertise to engineer these systems, partnering with companies to provide a custom turning gear solution for any industry or application. Our experts are well-versed in the complexity of these systems and our engineers manufacture and optimize each component, ensuring they work together as an efficient unit while meeting the critical objectives required.

By utilizing our broad portfolio, we can design a solution with the following products:

- Falk or Bauer Gearbox
- Falk Couplings
- Marland CEOCON/CEBMAG Clutch

We assemble and ship the entire solution out to our customers, providing a true turnkey, drop-in installation that saves time, resources, and minimizes the risk of main system failure. From the detailed design concept to the assembly and fabrication, Regal Rexnord provides a single source for your turning gear needs.



You have challenges.
We have solutions.

To solve your critical challenges, it is essential to partner with a **global company** with **local resources**, **reputable brands**, and a **proven history** of delivering cost-efficient solutions.



**SIMPLIFIED
SUPPLY CHAIN**



**TRUSTED
ADVISOR**



**APPLICATION
ENGINEERING**



**GLOBAL
PRESENCE**



**CONTINUOUS
INNOVATION**

Any Industry, Any Application. Get started at [RegalRexnord.com/Powertrain](https://www.RegalRexnord.com/Powertrain)

Regal Rexnord

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The proper selection and application of products and components, including assuring that the product is safe for its intended use, are the responsibility of the customer. To view our Application Considerations, please visit <https://www.regalrexnord.com/Application-Considerations>.

To view our Standard Terms and Conditions of Sale, please visit <https://www.regalrexnord.com/Terms-and-Conditions-of-Sale> (which may redirect to other website locations based on product family).

"Regal Rexnord" is not indicative of legal entity. Refer to product purchase documentation for the applicable legal entity.

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