

## Discover How You Can Extend Sprocket Life & Increase Uptime



When it comes to industrial applications, there isn't a "one-size-fits-all" approach to selecting the right sprocket, as each application has its own unique set of requirements, materials used, and shaft and assembly considerations to take into account. **However, there are some common concerns to keep in mind when selecting the right sprocket for your application, including wear resistance, heat treatment, ease of install, and safety.** Read on to learn more about the products from Martin Sprocket & Gear that provide a solution for each of these issues.

### Increase Productivity & Reduce Wear Resistance

With the daily wear and tear that sprockets undergo, it's important to make sure that you're using the best, long-lasting products that can stay perfectly aligned, while handling the required torque for your application.



*Chain saver rims extend chain life by ensuring proper positioning of the pitch line on the flank of the tooth.*



*Shear pin sprockets prevent catastrophic damage to driven components due to torque overload.*

To increase productivity and reduce wear resistance for your application, Martin Sprocket & Gear can utilize special design features. Chain Saver rims are a feature that help extend chain life by ensuring proper positioning of the chain pitch line with the sprocket tooth. Martin Shear Pin sprocket designs prevent catastrophic damage to driven components due to high torque overload.

### Extend Sprocket Life with Flame and Induction Hardening

For particularly abrasive applications or applications that require extended life cycles, an incorrectly manufactured sprocket can start to exhibit rapid wear patterns or rapid failure. One of the key ways to prevent this and increase sprocket life is to heat treat your products to increase their hardness at the wear areas through flame and induction hardening methods.



Martin Sprocket & Gear offers both flame and induction hardening on steel products. This hardening draws carbon to the pitch line and locks it in place to increase wear resistance and yield a longer life. Martin utilizes these precise hardening techniques to ensure that the proper hardening depth for the wear areas is uniform and will provide the necessary wear resistance.

### Promote Safety with Thoughtfully-Designed, Easy-to-Install Sprockets

In addition to increasing productivity and reducing wear resistance, the most important part of selecting the right sprocket for your application comes down to safety during installation of the sprocket. Creating a culture of safety throughout your operation is the best way to protect your people, avoid injuries and unwanted downtime, and provide the ultimate peace of mind.



To help with fast and safe installation, Martin Sprocket & Gear offers both split and segmental sprocket designs, which makes it easy to replace a sprocket without moving other equipment and components. These large, heavy sprockets can be assembled on-site and are much more efficient to replace than solid sprockets. Plus, Martin Sprocket & Gear specifically engineers their products with safe design in mind, including the use of proper materials, coatings, and attachments to meet the unique needs of each application.

### Optimize Sprocket Life & Maximize Uptime with Martin Sprocket & Gear

With the industry's largest inventory position and decades of engineering experience, Martin Sprocket & Gear can design sprockets for applications spanning across all industries. Martin has the Martin Sprocket & Gear Productlargest stock sprocket inventory in North America. Quick alteration services and manufacturing capabilities at all locations mean Martin is able to provide the industry's quickest lead times for made-to-order sprockets.