

Martin

Power
Transmission

Sprockets





Keep your employees safe while maximizing uptime and reducing costs

Martin can design and deliver sprockets for any application exactly when you need it by utilizing our decades of engineering expertise, maintaining the industry's largest inventory position and investing in an extensive manufacturing footprint. The dedicated sales team of application and product experts are prepared to provide after-hours support 24 hours a day, 7 days a week, 365 days a year. Martin's made-to-order capabilities can satisfy unique application needs with a wide range of materials, shaft attachments, and assemblies. Ultimately, our goal as the industry leader is to help every user increase uptime, extend product life and operate safely.



**Reduce costs and
unplanned downtime**



**Increase productivity and
extend product life**



**Safe design and
easy to install**



Reduce costs and unplanned downtime

Extensive manufacturing footprint



\$41M

Mining, Aggregate
and Cement



\$178M

Annual
Reduced Downtime



\$37M

Forest and
Paper



\$80K

Annual documented
savings per user



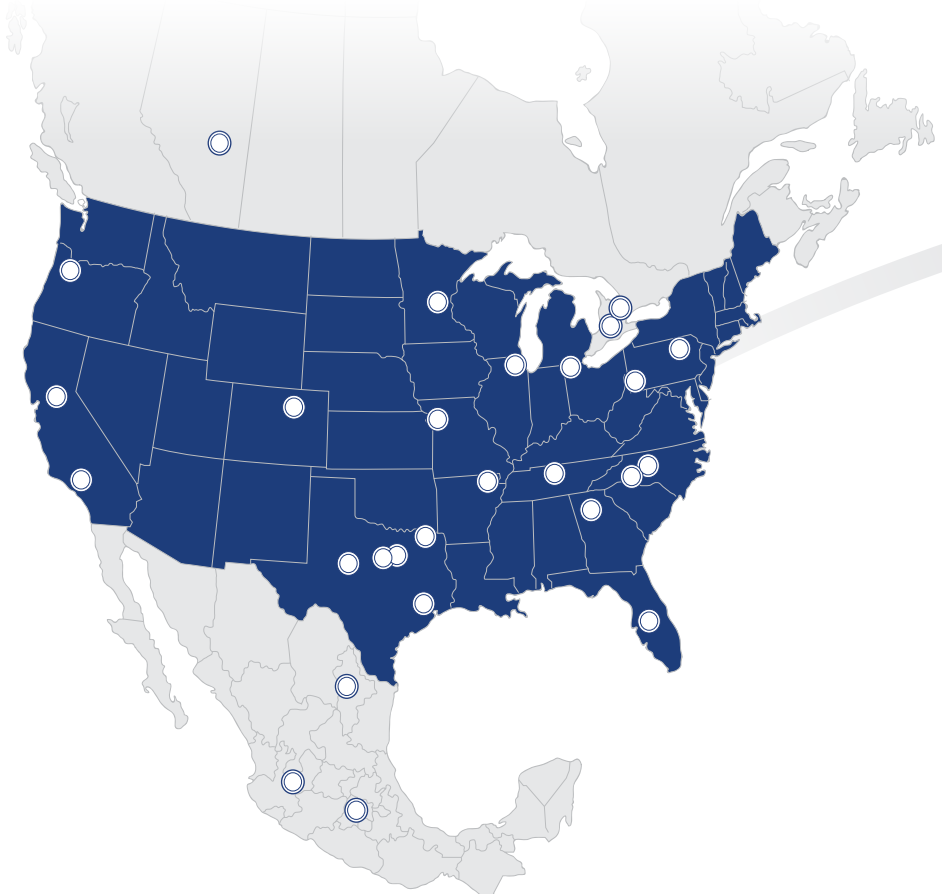
\$31M

Food and
Beverage



1.41

Average Days to ship
anywhere in
North America



Martin has the largest 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.

Large inventory and an extensive manufacturing footprint allows users to reduce their working capital by maintaining less on hand inventory and utilizing local branches.

Strategically placing finished goods close to the user and providing after-hours service 24 hours a day, 7 days a week, 365 days a year allows for consistent quality control, quick deliveries, and reduced freight costs.

**Expansive inventory
reduces lead time**
Documented Cost Saving



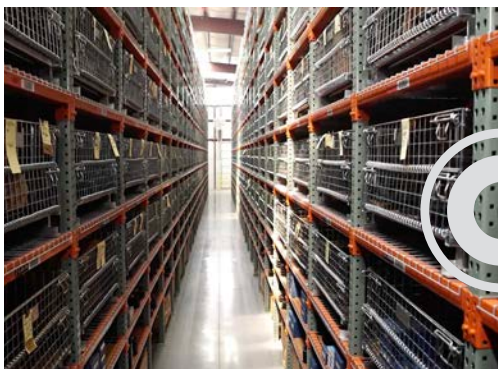


Reduce costs and unplanned downtime

Dedicated inside and outside sales teams



Martin maximizes user productivity with a dedicated inside and outside sales team of application and product experts across North America. Martin's local technical experts are available to respond quickly to onsite needs helping users increase productivity. No order minimum ensures the user experience is as convenient as possible while reducing carrying costs.





Increase productivity and extend product life

Industry leading manufacturing expertise

Since 1951, Martin has engineered and manufactured custom sprockets for all industrial applications. Made-to-order capabilities satisfy unique application needs with a wide range of materials, shaft options and assemblies. Martin backs our quality products with a one-year limited warranty.

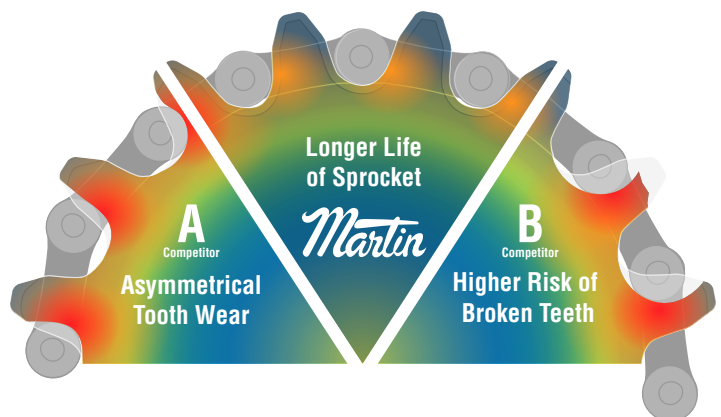


Chain saver rims extend chain life by ensuring proper positioning of the pitch line on the flank of the tooth.



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

Martin offers both flame and induction hardening on steel products. Hardening draws carbon to the pitch line and locks it in place to increase wear resistance and yield a longer life.



Proven processes allow for uniform heat treat and extends life on Martin products versus our competition.

Heat treat capabilities
Video

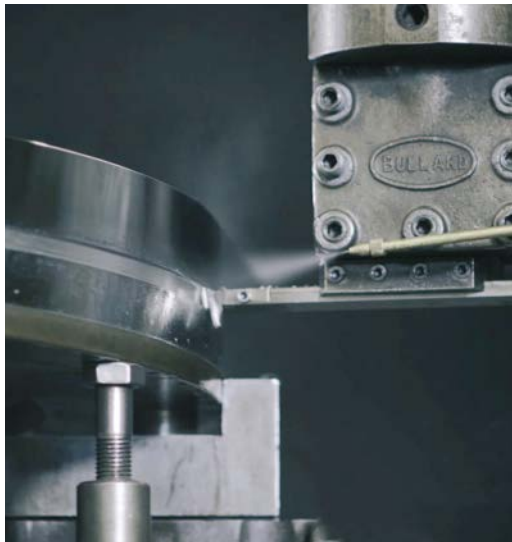




Increase productivity and extend product life

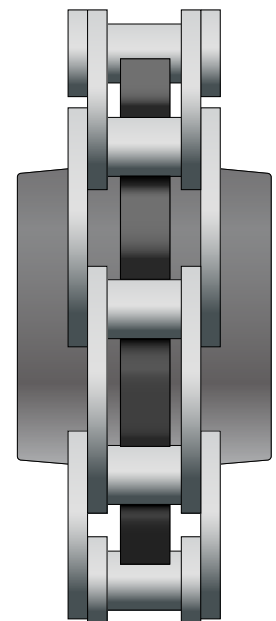
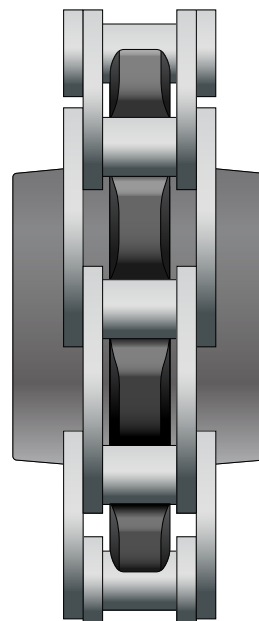
Industry leading manufacturing expertise

Machined teeth have greater precision creating longer chain life versus flame cut or punched teeth. Multiple strand sprockets offer improved tooth alignment when compared to individual A plates welded together after cutting teeth. The chain rows are parallel with equal spacing helping prevent premature chain wear.



Martin
7/8" Plate Chamfered

Competitor
3/4" Plate Not Chamfered



Martin offers sprockets with machined chamfered teeth at a 15° angle for 1/3 of the tooth ensuring proper chain engagement and allowing the teeth to enter and leave the chain smoothly without damaging chain components. A wider tooth on the pitch line of engineered class sprockets provides a more even distribution of the load on the roller to prevent premature chain wear.



Increase productivity and extend product life

Large variety of sprockets



Stock offerings

- ANSI No. 25 - No. 240
- A, B, C hub styles
- Idler sprockets
- Taper bushed (QD, TB, and MST)
- Carbon steel, stainless steel, and non-metallic
- Double pitch
- Torque limiter
- ISO 06B-32B
- Split sprockets
- Flat top conveyor chain sprocket
- Single strand, double strand, triple strand and double single

Made-to-order designs

- Steel wide drag sprockets
- Traction wheels designed for minimal slippage
- Large OD
- Spline bore
- Duplex and triplex
- Plastic sprockets
- Further designs upon request

Engineering class

- Accu-Torch® flame cut sprockets
- Machine chamfered teeth provide proper engagement
- Stamped lead tooth ensures proper alignment on tandem drives
- A large variety of finished bores in stock
- Mud groove sprockets offer a self-cleaning effect on the root of the tooth



Segmental sprocket
replacement in bucket elevator

Video





Safe design and easy to install

Split or segmental sprocket design

A split or segmental sprocket design offers the ability to replace a sprocket without moving other equipment and/or components resulting in a fast and safe installation. This process requires less maintenance, reduces downtime, and increases productivity.

Split and segmental sprockets help increase uptime by reducing the amount of equipment removed during installation making them easier to change out than a solid sprocket. Additionally, these designs can be assembled on-site eliminating costly crane rentals required for the installation of large, heavy sprockets.





Safe design and easy to install

Multiple bushing options

A finished bore sprocket requires a setscrew to tighten on the shaft and hold the sprocket in place during operation. The clearance fit bore combined with metal-to-metal contact, finite vibration of the application, and exposure to the outside elements result in rust and fretting corrosion between the finished bore and shaft. When it is time to remove the sprocket for routine maintenance, the rust and fretting corrosion forces users to cut the sprocket off the shaft resulting in replacement costs associated with the shaft and sprocket.

To eliminate the need to replace the sprocket and damaged shaft, various bushing styles are available and can aide in sprocket removal by saving approximately one third less time versus a finished bore. Push-off bolts release the bushing and allow the sprocket to be freely removed from the shaft. Utilizing any of the bushing designs below reduces material costs, decreases change out time, and enables a safer removal process.



Quick Detachable (QD) utilizes a single split through both the barrel and flange. This design offers a fast replacement, minimizes damage to the shaft upon removal, and is compatible with both conventional and reverse mounting.



Martin Split Taper (MST®) offer a solid flange with a double split through the barrel and are keyed to both shaft and hub to aid in "blind" installation. The taper and hub key provide clamping on the shaft yielding higher torque capacity.



Taper bushings (TB) have a single split through the barrel while the screws are used to tighten to the shaft. This design minimizes shaft damage upon removal. The flush-mount profile means a fast replacement and smaller equipment footprint.

**Sintered metal
manufacturing capabilities**

Video





Safe design and easy to install

Wide range of materials for any application

Martin's product experts design and engineer safe products by utilizing the proper materials, coatings, and attachments to meet the unique needs of each application.

- **Stainless steel** is corrosion resistant and meets FDA requirements to be used in food-grade applications such as salt and sugar.
- **Sintered metal** yields uniform tolerances, high density, and self-lubricating properties.
- **Alloy steel** has a high case hardening and ductile core increasing impact and wear resistance.
- **UHMW** is non-conductive and requires no lubrication. It is commonly used in wastewater and food applications.





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