

Fenner® PLUS Sprockets

Fenner PLUS Sprockets - Flame-hardened for a longer life

Fenner PLUS sprockets have been re-engineered to become the perfect partner for the new Fenner PLUS chain.

All Fenner PLUS sprockets up to circa 40 teeth are manufactured from C45 grade steel - a 0.45% plain carbon steel ideally suited to through hardening.

Fenner PLUS steel sprockets have flame-hardened teeth - hardened to just below the tooth root - a feature that can dramatically improve chain and sprocket life by up to 50%. How does this work?

When components interact in a mechanical drive - such as chain meshing with sprockets - it is undesirable to have both components in an equally hard state as this exacerbates both chain and sprocket wear.

The hardening of Fenner PLUS sprocket teeth is optimised to levels that increase life, particularly when used with Fenner PLUS chain.



The flame-hardening process hardens the full tooth profile to just below the tooth root - leaving the bulk of the sprocket in its natural (unhardened) state.

The teeth are hardened to a carefully researched level which not only minimises tooth wear but is strategically less than the chain roller to give quiet running and extended chain life.



Fenner® PLUS

High Performance
Chain and Sprockets



Authorised Fenner Power Transmission Distributor

One Range, One Result, One Name

D DRIVES | BELTS | PULLEYS | **CHAINS** | **SPROCKETS** | SHAFT FITTINGS | COUPLINGS | GEARED DRIVES | BELTS | PULLEYS | **CHAINS** | **SPROCKETS** | SHAFT FITTINGS | COUPLINGS | GEARED DRIVES | BELTS | PULLEYS | **CHAINS** | **SPROCKETS** | SHAFT

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Fenner®

the mark of engineering excellence

Fenner® PLUS

Power Transmission Chain

Our detailed engineering approach to power transmission drives sets us apart and makes a real difference to your drive.

The attributes engineered into Fenner PLUS chain are derived from years of practical experience in working on some of the most demanding applications adding an extra dimension that delivers exceptional performance and value for everyday use. Never has this been more apparent than with the introduction of this new Fenner PLUS power transmission chain - the latest top quality transmission development from Fenner.

Fenner PLUS chain builds on the heritage and engineering experience of the existing Fenner product range by optimising the benefits of several performance-enhancing details.



Solid Rollers



Easy Pin eXtraction (EPX)



Precision Ground Pins



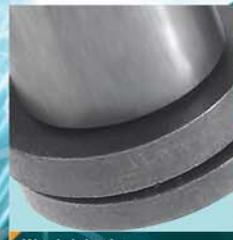
Shot Peening



Case-hardened Pins



Progressive Punching



Wax Lubrication



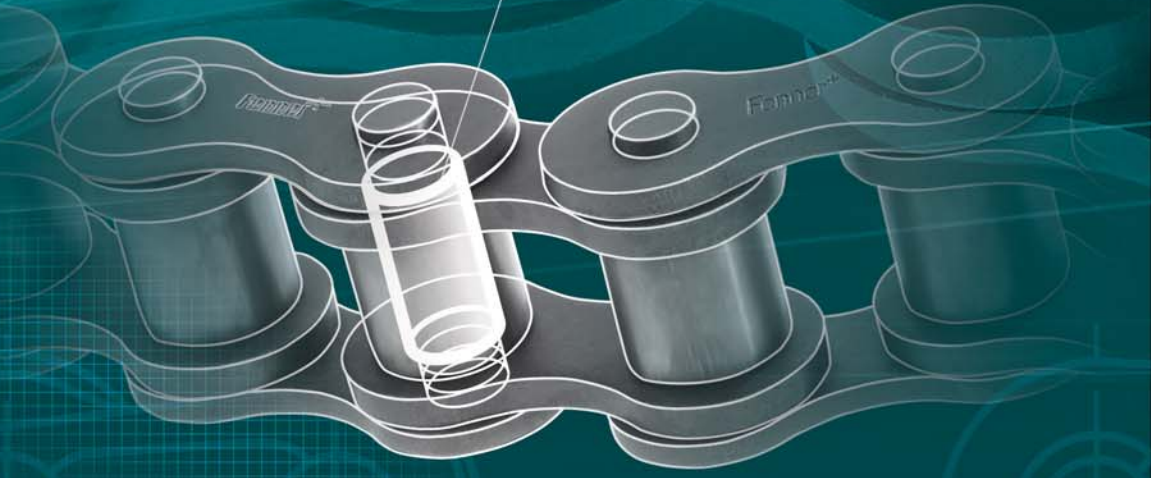
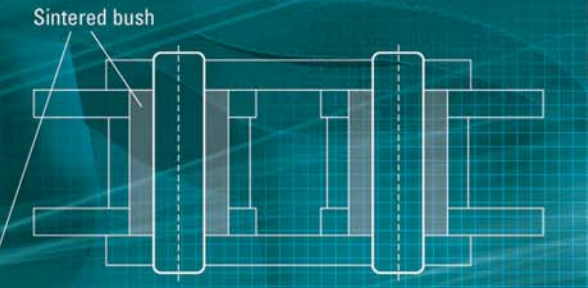
Pre-tensioning



Fenner PLUS Lubrication-Free Chain

Fenner PLUS lubrication-free chain is an ideal solution for situations where lubrication is difficult or contamination and fire are serious potential problems.

- Built-in lubrication - Fenner PLUS lubrication-free chain has been specially manufactured to exacting standards and features its own built-in lubrication.
- Using sintered bushes impregnated with oil, Fenner lubrication-free chain can operate at up to 2.5m/sec, which is more than twice that of composite bush chains.



Fenner PLUS Engineering Technical Features



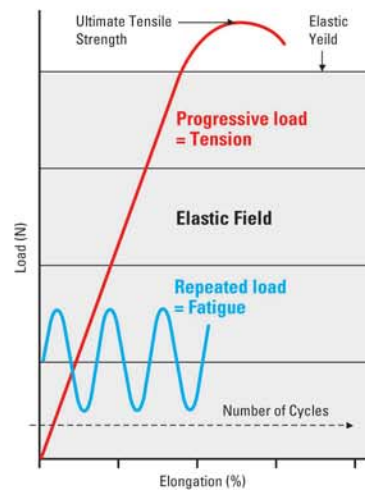
Solid Rollers: Fenner PLUS solid rollers are manufactured to achieve an extremely high surface hardness ensuring high wear resistance, great performance and a long chain life.



Shot Peening: Fenner PLUS chain plates are shot peened. This process relieves stresses that build up in manufacture, reduces the likelihood of fatigue failure, and extends chain life.



Progressive Punching: All Fenner PLUS chain plates are progressively punched to give excellent accuracy of both diameter and pitch. This gives a quiet and accurate mesh with the sprockets, and easy pin extraction for simple chain splitting.



These technical features work together to give Fenner PLUS Chain the optimum combination of tensile strength, wear resistance and fatigue life.

Particularly when teamed up with Fenner PLUS hardened tooth sprockets this combination ensures high torque transmission capability over an extended working life.



Case-hardened Pins: Fenner PLUS chain pins are specially case-hardened to ensure resistance to abrasion from dust and debris and hence minimum chain "stretch".



Pre-tensioning: All Fenner PLUS chain is pre-tensioned. This process takes the initial stretch out of the chain and negates the need to re-tension on the drive - thus reducing ongoing maintenance costs.



Wax Lubrication: All Fenner PLUS chain is wax-lubricated so that it can be run straight from the box. Debris cannot adhere to the dry wax finish, which helps protect against premature wear failure.



Precision Ground Pins: Fenner PLUS chain pins have an extremely high-grade surface finish that retains the wax lubricant to extend the life of the chain.



Hardened Pin Conn Links: All Fenner PLUS chain utilises 1900 Vickers diamond hard pins for maximum abrasion resistance.



Easy Pin eXtraction (EPX): Strict tolerance and quality control procedures mean Fenner PLUS chain can be easily split apart on-site for quick and simple installation.

Fenner PLUS at a glance...

- Unparalleled performance in hostile environments
- Operates successfully with irregular lubrication
- Shot peened plates for fatigue resistance
- Special wax lubrication as standard
- Solid rollers
- Case hardened bearing pins for wear and "stretch" resistance
- EPX Easy Pin eXtraction Feature