81X Series Chain Products

Timber Processing • Wallboard Conveyor
Enmasse Systems

Made in U.S.A.

DRIVES INCORPORATED

Fulton, IL / USA

100 years

...of advanced engineering knowledge and experience adds up to the best U.S.A. made chain ever produced.

Drives, Inc. produces industry leading Engineered Class Conveyor chains for the world's toughest applications. Contact Drives, Inc. for solutions that drive success when you're looking to replace your existing conveyor chains and you want great performance value.

Chain Features:

Solid Rollers and Bushings

Through hardened solid rollers provide a smooth, more uniform bearing surface and material ductility for shock resistance and toughness to withstand sprocket tooth engagement. Case hardened solid bushings deliver premium wear resistance and higher crush strength.

Case Hardened or Through Hardened Pins

81X chain pins are carburized, or case hardened, which transforms the outside of the part into a hard, wear resistant surface, but allows the inner core to remain tough and ductile to absorb normal loads. For most applications, this combination provides the balance between wear resistance and durability.

81XH series chains incorporate pins produced from carbon alloy steel, through hardened to give the heavy series chains higher working loads and over 20% greater capacity for shock loading. Users should be aware that wear life in abrasive environments may be slightly reduced due to material and heat treatment of the through hardened chain pins.

Shotpeened Components

Pins, Rollers and Side Plates are shotpeened to improve the fatigue resistance of the chain. The shotpeening process purposely causes the component materials to work harden. This work hardening process creates compressive stresses on the surface of the chain components which promotes additional resistance to premature fatigue failure.

Three Stage Precision Pierced Link Plate Pitch Holes

Link plate pitch holes are produced using a three stage progressive process to create a high quality pitch hole with maximum bearing area and surface perfection. This provides for maximum contact area between link plates, pins and bushings and increases chain integrity. The exceptional surface finish within the pitch hole maximizes the capacity to handle heavy loads, especially in fatigue sensitive applications. These manufacturing processes minimize chain twist which is critical to facilitating the installation of chain in conveyor applications.

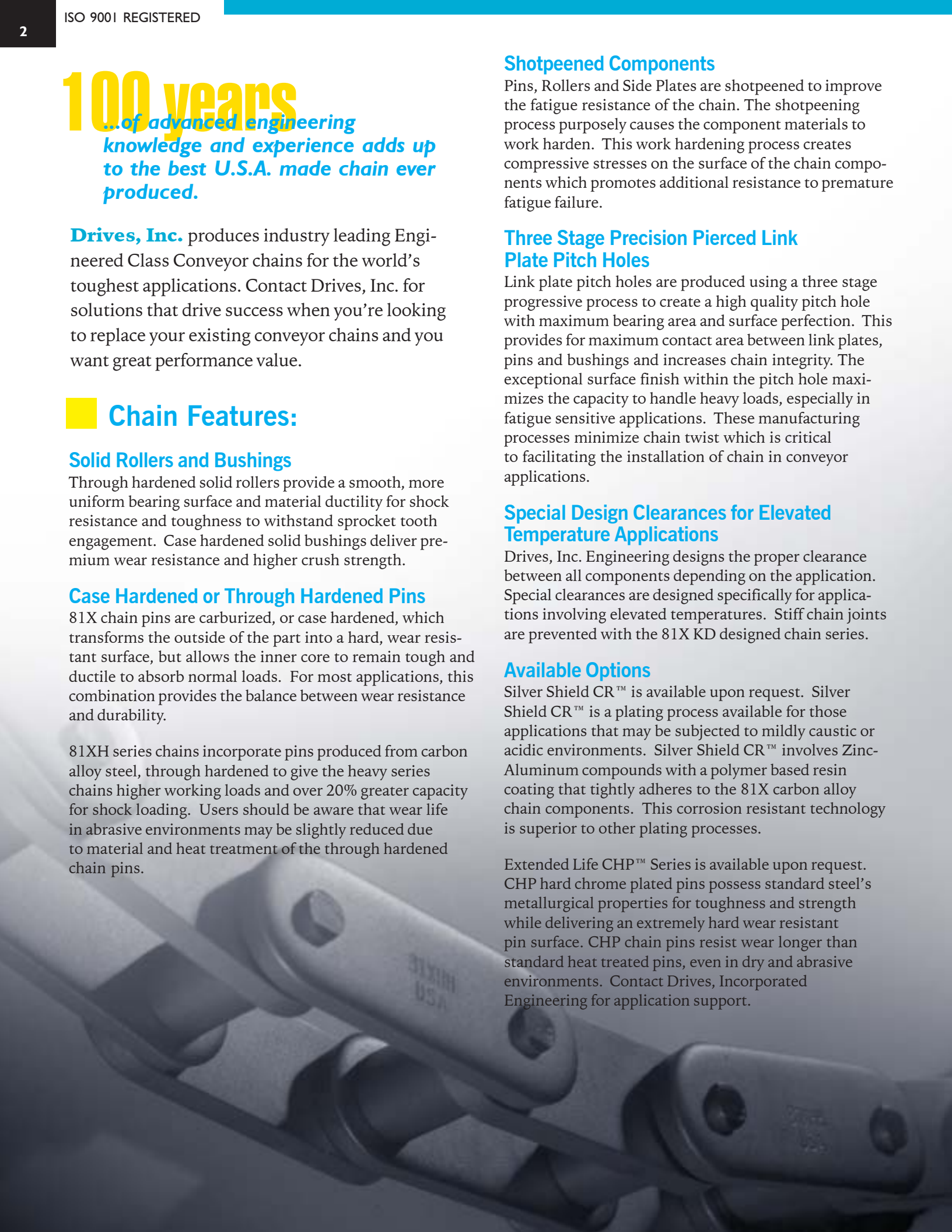
Special Design Clearances for Elevated Temperature Applications

Drives, Inc. Engineering designs the proper clearance between all components depending on the application. Special clearances are designed specifically for applications involving elevated temperatures. Stiff chain joints are prevented with the 81X KD designed chain series.

Available Options

Silver Shield CR™ is available upon request. Silver Shield CR™ is a plating process available for those applications that may be subjected to mildly caustic or acidic environments. Silver Shield CR™ involves Zinc-Aluminum compounds with a polymer based resin coating that tightly adheres to the 81X carbon alloy chain components. This corrosion resistant technology is superior to other plating processes.

Extended Life CHP™ Series is available upon request. CHP hard chrome plated pins possess standard steel's metallurgical properties for toughness and strength while delivering an extremely hard wear resistant pin surface. CHP chain pins resist wear longer than standard heat treated pins, even in dry and abrasive environments. Contact Drives, Incorporated Engineering for application support.



Drives, Incorporated 81X Engineering Class Conveyor Chain

Made in U.S.A.

Benefits of 81X

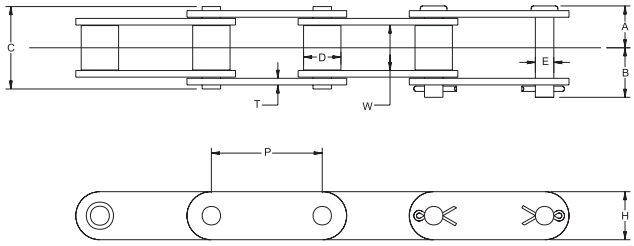
- Made of superior quality alloy steels.
- Heat treated and specialty tempered for extended service life.

Solid Rollers

- Smoother engagement with sprockets.
- Rollers rotate freely reducing pulsation in conveyors.

Solid Bushings

- 30% higher crush strength than curled bushings.



81X Conveyor Series

2.609" Pitch

Drives, Inc.	Pitch	Dimensions in Inches								Approx. Links in 10 Ft.	Weight per Foot	Average Ultimate Strength	Maximum Recommended Working Load
Chain No.	P	C	D	E	H	W	T	A	B	Links	Lb.	Lb.	Lb.
81X	2.609	1.930	0.906	0.437	1.125	1.060	0.155	0.975	1.160	46	2.500	24,000	3,000

Made in U.S.A.

Drives, Incorporated 81XH, 81XHT, 81XHH Engineering Class Conveyor Chain

Benefits of 81XH, 81XHT, 81XHH

Heavier Sidebars

- 23% more bearing surface for conveying product.
- Increased sidebar thickness on the roller link plate allows for welding to the inner link plate.

Through Hardened Pins

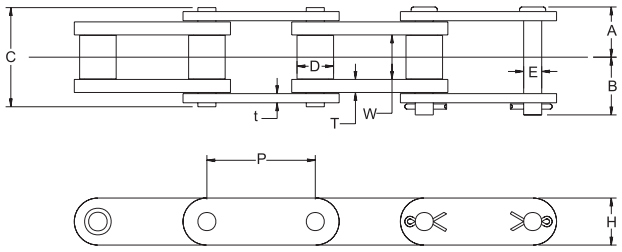
- 10% higher fatigue resistance and 20% higher shock load than chains with Case Hardened pins.

Solid Rollers

- Smoother engagement with sprockets.
- Rollers rotate freely reducing pulsation in conveyors.

Solid Bushings

- 30% higher crush strength than curled bushings.



81XH, 81XHT, 81XHH Conveyor Series

2.609" Pitch

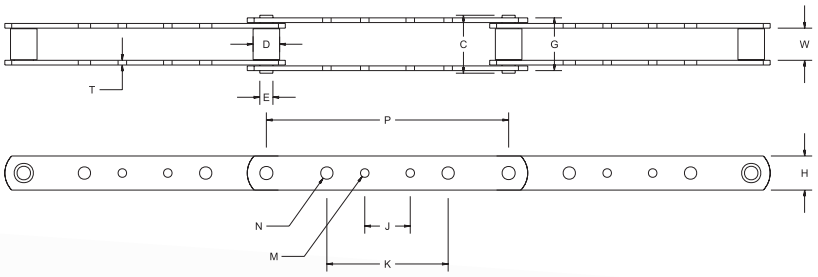
Drives, Inc.	Pitch	Dimensions in Inches									Approx. Links in 10 Ft.	Weight per Foot	Average Ultimate Strength	Maximum Recommended Working Load
Chain No.	P	C	D	E	H	W	T	t	A	B	Links	Lb.	Lb.	Lb.
81XH	2.609	2.365	0.906	0.437	1.332	1.060	0.310	0.220	1.196	1.381	46	4.120	42,000	3,700
81XHT	2.609	2.250	0.906	0.437	1.125	1.060	0.220	0.220	1.196	1.381	46	3.800	34,000	3,700
81XHH	2.609	2.553	0.906	0.437	1.332	1.060	0.310	0.310	1.289	1.474	46	4.600	42,000	3,700

Drives, Incorporated 3939 Engineering Class

Conveyor Chain

Made in U.S.A.

3939



8.000" Pitch

Drives, Inc.	Pitch	Dimensions in Inches											Apprx. Links in 10 Ft.	Weight per Foot	Average Ultimate Strength	Maximum Recommended Working Load
Chain No.	P	C	D	E	G	H	J	K	M	N	W	T	Links	Lb.	Lb.	Lb.
3939-B4	8.000	1.930	0.906	0.432	1.740	1.125	1.500	4.000	0.281	0.281	1.060	0.155	15	1.550	24,000	3,000
3939-B21	8.000	1.930	0.906	0.432	1.740	1.125	1.500	--	0.281	--	1.060	0.155	15	1.550	24,000	3,000
3939-B23	8.000	1.930	0.906	0.432	1.740	1.125	--	3.625	--	0.406	1.060	0.155	15	1.550	24,000	3,000
3939-B24	8.000	1.930	0.906	0.432	1.740	1.125	--	4.000	--	0.281	1.060	0.155	15	1.550	24,000	3,000
3939-B40	8.000	1.930	0.906	0.432	1.740	1.125	--	4.000	--	0.406	1.060	0.155	15	1.550	24,000	3,000
3939-B43	8.000	1.930	0.906	0.432	1.740	1.125	2.000	3.625	0.343	0.406	1.060	0.155	15	1.550	24,000	3,000
3939-B44	8.000	1.930	0.906	0.432	1.740	1.125	1.500	4.000	0.281	0.406	1.060	0.155	15	1.550	24,000	3,000

QUALITY
Performance
Service
1-800-435-0782

DRIVES INCORPORATED

Delivering Engineering Class Chains built to the highest standards and recognized for performance in the world's toughest applications

Custom Services

- Special Strand Lengths
- No-stain Lubricants
- Quad-staked Heavy Series
- Extended Life CHP™ Series

Drives, Incorporated USA 81X KD and 81XH KD chains are manufactured in Fulton, IL and are built to the highest standards in the industry. Drives, Incorporated USA 81X KD and 81XH KD chains are specifically designed and recommended for elevated temperature applications.

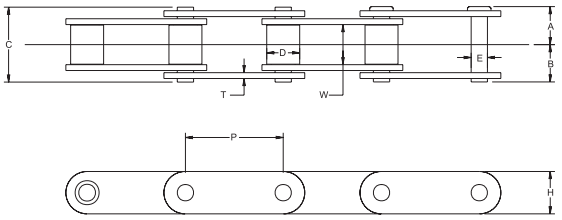
Consult Drives, Inc. Engineering for application recommendations.

Solutions that Drive Success

Drives, Incorporated 81X KD Engineering Class

Kiln Chain

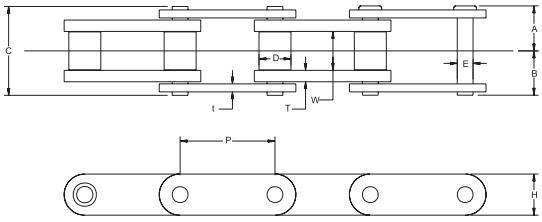
81X KD



2.609" Pitch

Drives, Inc.	Pitch	Dimensions in Inches								Approx. Links in 10 Ft.	Weight per Foot	Average Ultimate Strength	Maximum Recommended Working Load
Chain No.	P	C	D	E	H	W	T	A	B	Links	Lb.	Lb.	Lb.
81X KD*	2.609	1.930	0.906	0.437	1.125	1.060	0.155	0.975	1.160	46	2.500	24,000	3,000

81XH KD



2.609" Pitch

Drives, Inc.	Pitch	Dimensions in Inches									Approx. Links in 10 Ft.	Weight per Foot	Average Ultimate Strength	Maximum Recommended Working Load
Chain No.	P	C	D	E	H	W	T	t	A	B	Links	Lb.	Lb.	Lb.
81XH KD*	2.609	2.370	0.906	0.437	1.332	1.060	0.310	0.220	1.196	1.381	46	4.120	42,000	3,700

3.000" Pitch

Drives, Inc.	Pitch	Dimensions in Inches									Approx. Links in 10 Ft.	Weight per Foot	Average Ultimate Strength	Maximum Recommended Working Load
Chain No.	P	C	D	E	H	W	T	t	A	B	Links	Lb.	Lb.	Lb.
3000H KD*	3.000	3.220	1.500	0.750	2.000	1.312	0.375	--	1.610	1.610	40	10.700	70,000	7,100

* Note: KD Series manufactured with increased clearance between side bars to prevent stiff joints under elevated temperatures.

Drives, Incorporated Chain Products

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Grain Elevator and Processing Society (GEAPS)

Power Transmission Distributors Association (PTDA)

DRIVES INCORPORATED

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