

AEC Chain 698HTX

DROP FORGED RIVETLESS CHAIN

for the Sugar Industry



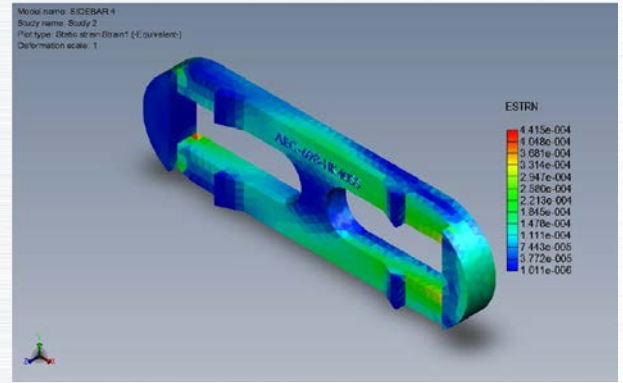
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AEC
ATLANTIC ENGINEERING CHAIN

The development of our **AEC Drop Forged Rivetless Chain** begins with the design and manufacture of forged chains for the steel industry, specifically type 698 chains that can withstand high loads at a temperature of 850° C in High Pressure API tube heat treatment furnaces.

Our company has patents pending for special alloys with chromium percentages greater than 35% for these conditions of enormous thermal gradients.



For the sugar industry, we provide our **AEC 698HT** design made of AISI 4140 steel with heat-treated components (volumetric tempering and tempered), optimized forging finishes, standard shot peening, quality control, and total traceability for each batch manufactured. The design considerations were brought about using Finite Element Analysis and Static and Dynamic Simulation.

Our **698HT** chain exceeds industry standards, a claim showcased by the hundreds of thousands of feet supplied to more than thirty mills in the Americas.



Drop Forged Rivetless Chain AEC 698HTX

In response to the new demands of the sugar industry and the exponential increase in the grinding capacities of almost all mills worldwide, we have developed our new AEC 698HTX forged chain. This new design will substantially increase the performance of our chain in high load conveyor applications. The engineering of this exceptional product is a confluence of the most important characteristics that the sugar industry has been demanding for years:

Robust design, increasing critical cross sections by 17%
Optimized geometry of the sliding areas
AISI 8642 material of high quality and purity
Selective heat treatment

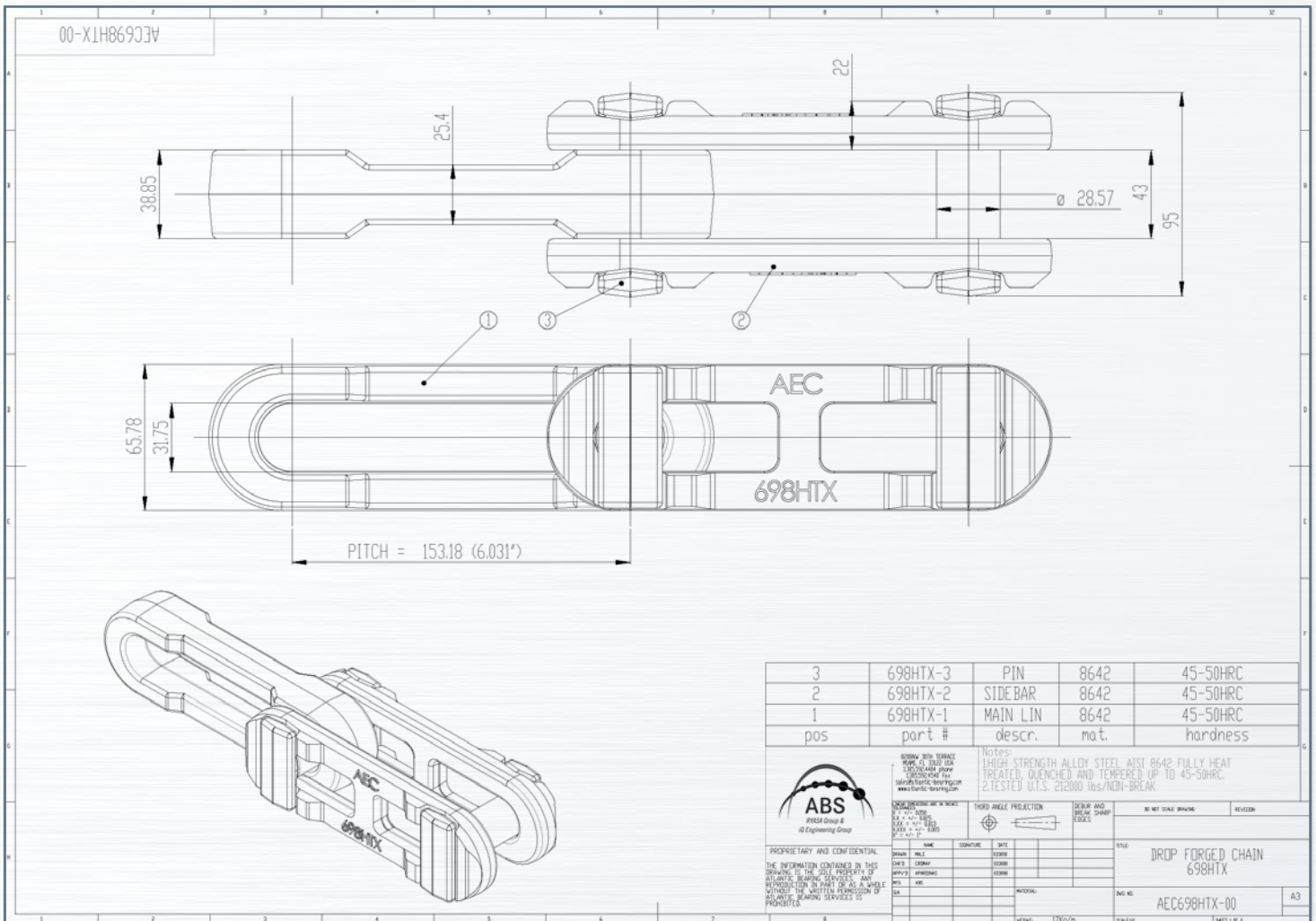
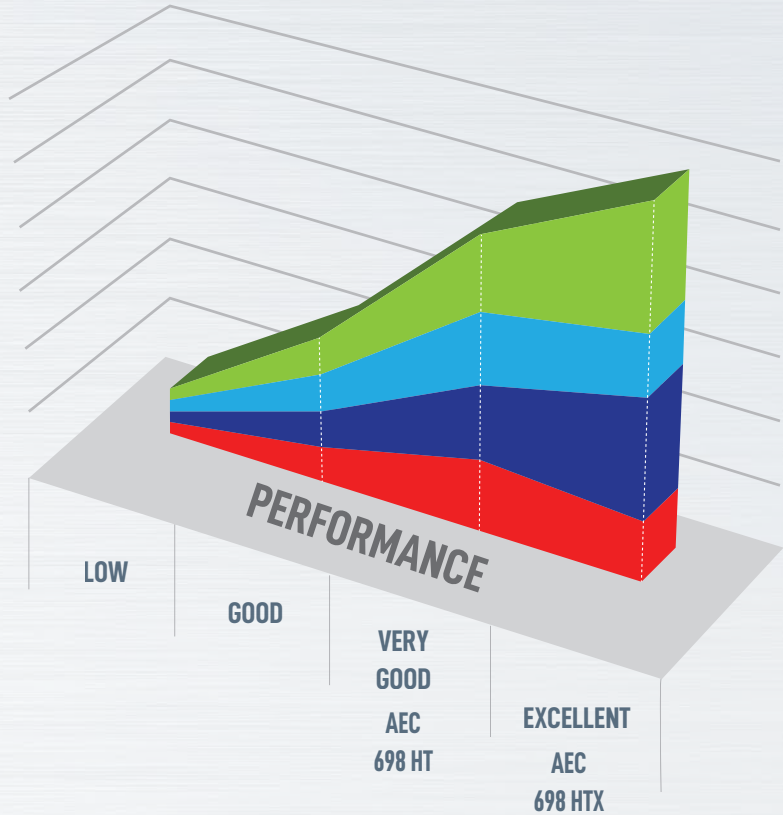
Improved surface finish
High tensile strength
Higher hardness
Very high resistance to frictional wear

The use of the 698HTX in the most demanding applications will exceed any expectation.

Main Mechanical Properties

Family Chains
698HT and 698HTX
AEC vs Competitors

- Wear Resistance
- Ductility
- Hardness
- Tensile Strength



3	698HTX-3	PIN	8642	45-50HRC
2	698HTX-2	SIDE BAR	8642	45-50HRC
1	698HTX-1	MAIN LIN	8642	45-50HRC
pos	part #	descr.	mat.	hardness

ABS
AEC Group A
3D Engineering Group

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NOTES:
1. HIGH STRENGTH ALLOY STEEL, AISI 8642, FULLY HEAT TREATED, QUENCHED AND TEMPERED UP TO 45-50HRC.
2. TESTED U.T.S. 212000 lbs./NON-BREAK.

THIRD ANGLE PROJECTION

DATE: 12/02/20

SCALE: 1:1

REV: 1

DESCRIPTION: DROP FORGED CHAIN 698HTX

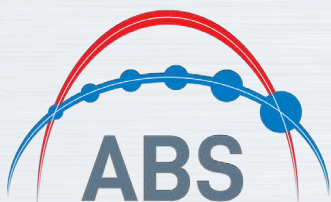
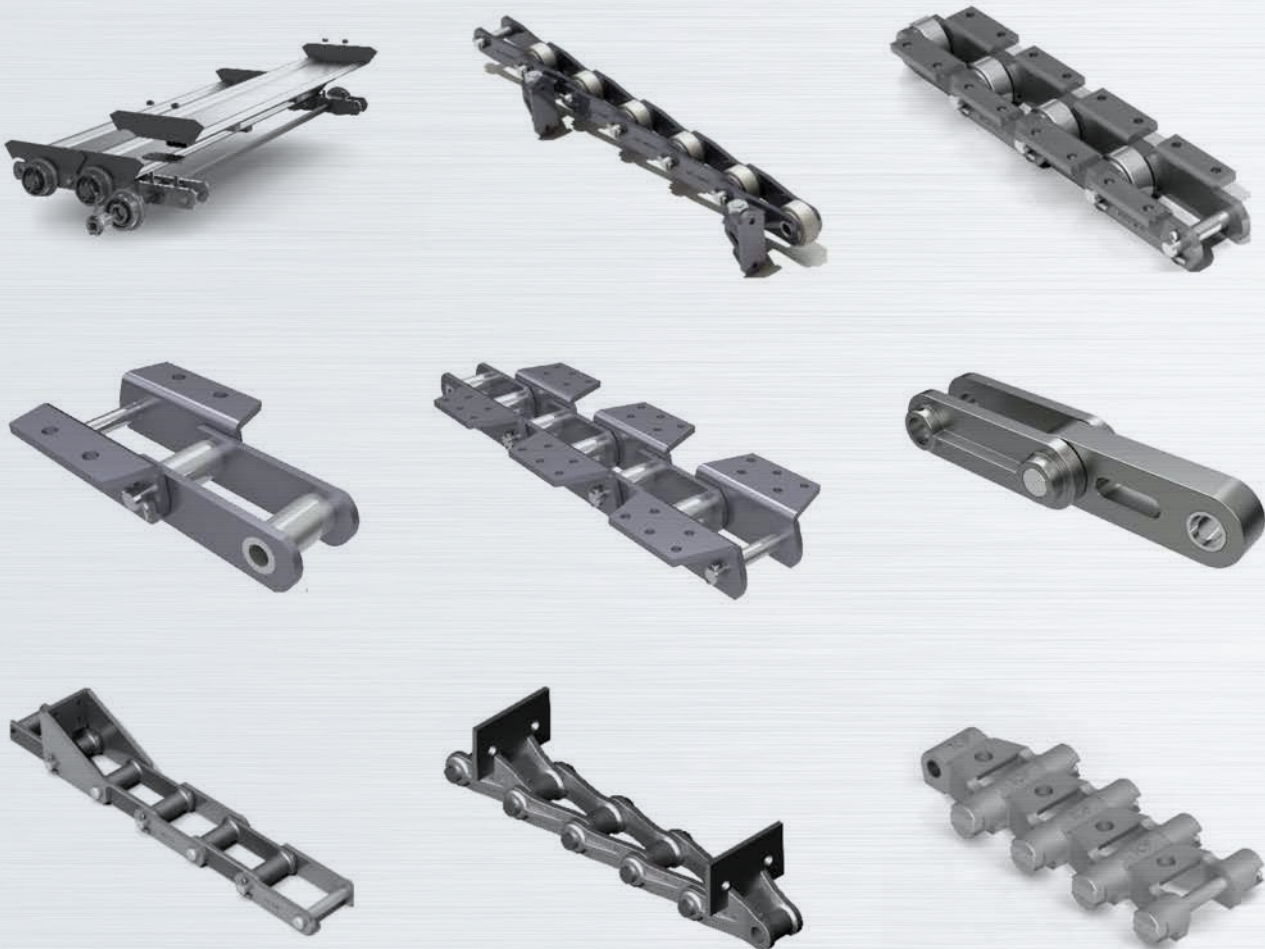
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AEC Engineering Chains emerge onto the market as a carefully designed product, engineered to achieve high performance in the most demanding applications. Various types are offered, including forged chains, roller chains for conveyors and elevators, combination chains, welded steel chains, and others. Each component of an AEC chain is made from high-purity, high-quality alloy steel.

AEC products receive appropriate heat treatments in order to achieve a perfect balance between mechanical strength and wear resistance. Our main goal is to offer our customers a reliable, long-lasting and affordable product for each application.

Other AEC Chains used in the Sugar Industry



Atlantic Bearing Services 8208 NW 30th Ter Miami, FL 33122 USA
ph 1.305.592.4404 | sales@atlantic-bearing.com | atlantic-bearing.com

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