

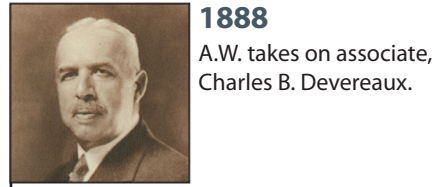
Chesterton Through the Years: 1865 – 1949

Chesterton

1865
A.W. Chesterton, aged six, comes to America with his family.



1884
A.W. launches Chesterton and Company, a Steamboat and Engineers Supplies company, on the Boston waterfront at 49 India Street.



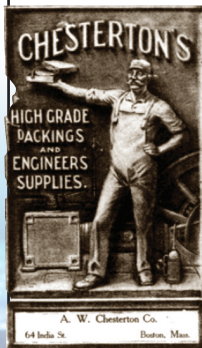
1888
A.W. takes on associate, Charles B. Devereaux.

1892
Chesterton Tool for Cutting Glass Gage-Tubes
Chesterton patents improvements to tools for cutting glass gage tubes.

1895
Chesterton Steam Packing
Chesterton patents steam packing consisting of a rubber coated inner core surrounded by woven braided packing.



1902
Chesterton's first catalog is 20 pages long.



1905
Chesterton buys Ingall's Boiler Cleaners, and with it, becomes a national distributor.

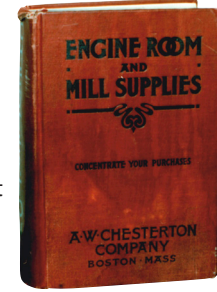


Chesterton sets up production in Melrose, MA.



1918
A.W. Chesterton (sitting; bowler hat) with his staff, 64 India Street, Boston Office.

1919
The Melrose plant is expanded with a concrete addition.

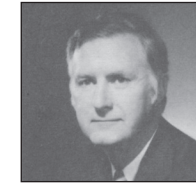


1920
Chesterton's product offerings grow to fill the 1224 pages of the Chesterton Catalog. A.W. travels across America to sell Chesterton products, growing the business.



1928
Chesterton 64 Steam Packing
First high-pressure steam packing retaining compressibility and resisting hardening at high temperatures.

1932
Chesterton expands operation in Melrose, MA. The original plant is torn down and replaced with a two-story, red brick building.

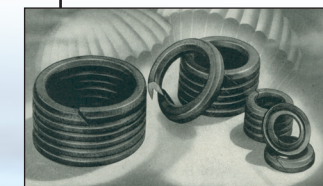


1937
Dick McDermott joins the firm as a salesman.

1938
A.W. Chesterton passes away. His sons, Dev (President) and Tom (Treasurer) take over management of the company.



1939
Chesterton 600 Parachute™ Packing V-Ring Set
First and only V-Ring packing set needing no special top adapter.



Dev Chesterton joins the Navy and Tom Chesterton takes over the office of the President.

1945
Chesterton ventures into the maintenance chemical business.



1948
64 India St. is demolished to make way for Interstate 93—also known as The Central Artery and the John F. Fitzgerald Expressway.

Headquarters are moved to Everett, MA.

G.B. Sherman launches international business.

1865 1875 1885 1895 1900 1910 1920 1930 1940

1865
End of America's Civil War.

President Abraham Lincoln is assassinated.

1900
Hawaii is declared a U.S. territory.

Johan Vaaler invents the paperclip.

World population is roughly 1.7 billion, up from 1 billion in 1800.

1903
Wright brothers first engine powered flight at Kitty Hawk, NC.

1908
Henry Ford produces the first Model T automobile.

1911
The first ship powered by diesel is launched.

1914
Start of World War I.

1915
Germans sink the Lusitania.

1918
End of World War I.

In the U.S. prices are twice what they had been in 1916.

Unemployment rises.

1919
Congress passes the 19th Amendment, giving women the right to vote.

League of Nations is created.

1922
RCA radio-faxes a photograph across the Atlantic Ocean in six minutes.

Insulin is discovered and used to treat diabetes.

1927
Lindbergh flies from the U.S. to France in the first non-stop solo transatlantic flight.

1929
The U.S. Stock Market crashes, signalling the beginning of the Great Depression.

Alexander Fleming discovers penicillin.

Edwin Hubble discovers that galaxies are moving away from each other.

1935
Amelia Earhart becomes the first person to fly solo from Hawaii to California.

Persia is renamed Iran.

U.S. President Franklin D. Roosevelt dedicates Hoover Dam.

Parker Brothers releases the board game Monopoly.

1939
Start of World War II.

Lise Meitner publishes her discovery of nuclear fission, atom splitting.

Erich Warsitz flies the first turbine-equipped jet aircraft, the Heinkel HE 178.

The movie *Gone with the Wind* premieres in Atlanta, GA.

1941
The U.S. enters World War II with the attack on Pearl Harbor.

Defense spending lifts the country out of the Great Depression.

1945
World War II ends.

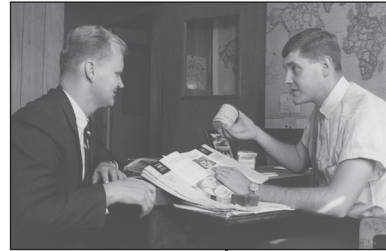
1949
The Kingdom of Siam becomes the Kingdom of Thailand.

Chesterton Through the Years: 1950 – 1966



1950

Chesterton launches two new innovative packings, **322 White-Lon™ Multi-Service Packing** and **324/1724 Super-Lon™ Packing**.
Chesterton 738 Belt-Flo™ Belt Dressing
 First industrial maintenance chemical product offered by Chesterton.



1952

Dick McDermott develops the concept of the Specialist, a salesperson whose expertise is specifying, selling, and applying Chesterton products.

1950

1950

Start of the Korean War.

1952

Princess Elizabeth of York becomes Elizabeth II, Queen of the United Kingdom, Canada, Australia, New Zealand, South Africa, Pakistan, and Ceylon.

1953

End of the Korean War.

1953

Chesterton releases two new specialty maintenance products, **706 Rustsolvo™ Penetrating Oil** and **730 Spragrip® Belt Dressing**.



1954

Sales and manufacturing are started in Mexico. Dev Chesterton starts up distribution in Japan.



The company focuses heavily on developing the expertise of its sales force and distributors, differentiating from its competitors with an emphasis on service.

1954

The Dow Jones Industrial Average rises 3.27 points, or 0.86%, closing at an all-time high of 382.74. More significantly, this is the first time the Dow has surpassed its 1929 peak level reached just before that year's crash.

1955

Sales reach one million dollars.

1956

Chesterton introduces its **601 Chain Drive Pin and Bushing Lubricant**, a premium-quality oil formulated to penetrate between the close clearance of chain drive bushings and pins, wire ropes, and cables to provide effective lubrication.

1956

The first hard disk drive (5 MB) is born at IBM.



1957

James D. Chesterton, Tom Chesterton's son, joins Chesterton, focusing on sales and distribution.

Richard F. Hoyle joins Chesterton as the first engineer. He launches the development of the Mechanical Seal business.



1958

Chesterton Monoseal™ Hydraulic Ram Packing
 First single-ring, fully automatic, endless, molded hydraulic sealing ring.

1958

Jack Kilby of Texas Instruments develops an idea for an integrated circuit on a piece of silicon.

1959

Alaska becomes a state.
 Hawaii becomes a state.

Pan American Airways begins offering regular jet-powered commercial flights around the world.



1960

Sales reach two million dollars.

Jim Chesterton expands the idea of the Specialist into the growing European sales force.

Arthur W. Chesterton, Dev's son, joins the firm, focusing on production and operations.

1960

1960

President Eisenhower sends 3500 U.S. soldiers to Vietnam to support the Diem regime.



1962

Chesterton outgrows the Melrose facility and builds a new, modern plant in Woburn, MA.

Chesterton introduces the **500 Stationary Mechanical Seal**.

1961

Construction of the Berlin Wall begins.
 NASA undertakes the Apollo program to land man on the moon.

1963

Chesterton 326 Ches-Lon™ Packing

First braided packing to replace cotton with a PTFE fiber carrier, resulting in a stable, low friction, high-grade packing for caustic applications.



1964

Chesterton 329 Stern-Lon™ Packing
 First formable, large cross-section, square braided packing with PTFE lubricant.

Sales reach four million dollars.

President Lyndon B. Johnson awards Dev Chesterton the 500th "E" award for Chesterton's contribution to industrial export growth, highlighting the company's achievements.



1964

President Lyndon Johnson signs the Civil Rights Act of 1964 into law. Racial segregation is now abolished in the United States.

The Beatles hold the top 5 positions in the Billboard Top 40 singles in America, an unprecedented achievement. The top songs in America as listed on April 4, in order, are: *Can't Buy Me Love*, *Twist and Shout*, *She Loves You*, *I Want to Hold Your Hand*, and *Please Please Me*.

1963

President Kennedy is assassinated.
 The touch-tone phone is introduced.

1966

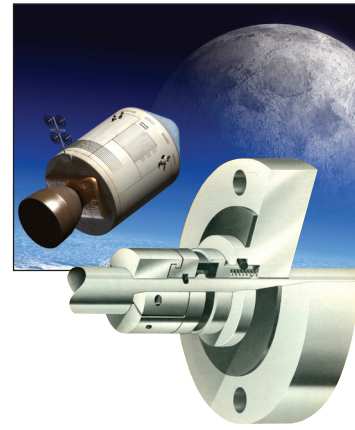
The Woburn facility is expanded, making it one of the most modern and complete Packing Seal plants in America.

1965

1965

Cosmonaut Aleksei Leonov, leaving his spacecraft Voskhod 2 for 12 minutes, becomes the first person to walk in space.

Chesterton Through the Years: 1967 – 1983



1967
Dick McDermott appointed presidency.

Chesterton designs two *CounterPoise Mechanical Seals* for an Apollo spacecraft.

1969
Chesterton's worldwide, in-plant maintenance training program established. The Technical Products Division releases 45 products between 1969 and 1979.



1968
Chesterton wins *Chemical Processing* magazine's Vaaler Award with its Vanway O-Ring.

1969
Astronaut Neil Armstrong steps onto the moon.
Woodstock is a free concert in upstate New York.

1968
Martin Luther King, Jr. is assassinated at the Lorraine Motel in Memphis, Tennessee.

1967
The first human to human heart transplant was performed by cardiac surgeon Christiaan Barnard at Groote Schuur hospital in Cape Town, South Africa.

1970
Sales exceed \$10 million.

Chesterton Style ONE Super-Graphite Packing
First 100% pure graphite braided packing with entrapped graphite particles. A Vaaler Award winner.

Chesterton 770 Mechanical Seal
First O-Ring balanced mechanical seal to fit a standard ANSI pump stuffing box without special machining. A Vaaler Award winner.



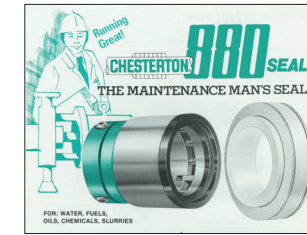
1971
Chesterton launches its used seal exchange program.

1972
Headquarters moves from Everett to Stoneham, MA.



Chesterton opens its first European manufacturing site in Bantry, Ireland.

1974
Chesterton Style 7000 SuperCup™ Hydraulic Seal
First polymer cup hydraulic seal with brass disc inserts.

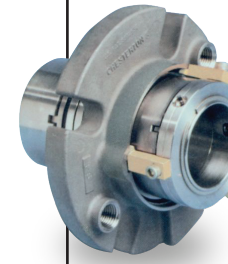


1975
Chesterton 880 Mechanical Seal
First O-Ring balanced mechanical seal with the rotary surface exposed to self-washing. A Vaaler Award winner.
Chesterton patents its *Self-Aligning Stationary Seal*.

1976
Chesterton becomes the first seal manufacturer to build a sealing training center thoroughly equipped for hands-on training and staffed with experienced instructors.

1975
President Gerald Ford declares the end of the Vietnam War.

1974
President Nixon resigns and is pardoned by his former Vice President, now President, Gerald Ford.

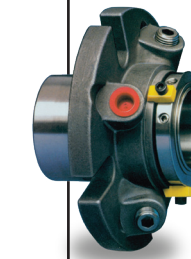


1978
Chesterton releases **478 Universal Gland**, its first universal gland for component seals.

1977
Tom Chesterton passes away.
Chesterton Technical Products Division moves manufacturing to Groveland, MA.
Chesterton introduces its **1725 Food Process Packing, 370 Multi-Service Packing, and 241 Double Cartridge Seal**.

1979
Chesterton 8K Super Parachute™ Spiral Kit
First precision-molded polymer material in spiral coils that can be cut to various sizes.

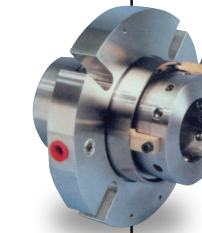
1979
Mother Theresa, an Albanian Roman Catholic nun, is awarded the Nobel Peace Prize for her humanitarian efforts on behalf of the poor and helpless.



1980
Chesterton revenues exceed \$75 million.
Chesterton 123 Cartridge Single Seal
First off-the-shelf, cartridge-mounted, single seal requiring no special sleeve or pump modification.

1981
Chesterton 2500 ISO Wedge Packing
First graphite packing set compressible in the stuffing box.

1981
IBM puts its first personal computer on the market, launching operating systems by Microsoft®.



1982
Chesterton GTP Packing Rings
First die-formed, two-piece graphite tape packing rings.



Chesterton 222 Cartridge Motion Seal
First cartridge mounted, double balanced, double mechanical seal with floating stationaries.

1982
A deep recession causes high unemployment in the United States and Europe.

1983
Chesterton launches its **1800 Steam Valve Packing**.

1983
In the U.S. inflation is down to annual rate of 3.22%.

Chesterton Through the Years: 1984 – 1999



1984

Sales rebound, reaching \$100 million.

Chesterton Industrial Process Pump

First industrial process pump to replace stuffing boxes with large capacity seal chambers or spiral-wrapped packing chambers.



Chesterton Metal Repair System (MRS) Coatings

line launched, including 810 Steel Putty Plus, 812 Steel Liquid Plus, 818 Rapid Cure Steel Putty Plus, 835 Underwater Repair Putty, and 858 Abrasion Control Putty.

1985

Chesterton releases its innovative 733 and 735 Composite Seals and 711, 712, and 713 Sealing Devices.

1986

Chesterton 221 Split Seal

First split mechanical seal for plant-wide use. A Vaaler Award winner is released.



Chesterton 5350 EPRI Wedge Packing

Chesterton with Electric Power Research Institutes (EPRI), designs the first die-formed graphite ring wedge mechanical packing with braided end rings.

Chesterton introduces its 855 Abrasion Control Liquid, an advanced ceramic composite offering protection against corrosive conditions, and 143/144 Stationary Bellows Seals, bellows seals with increased stability under elevated temperature and pressure.



1987

Chesterton Live Loading Program

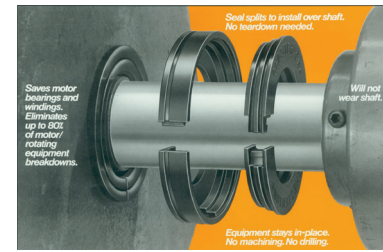
First valve live loading program with individual computerized designed packing set and gland torque specifications.

Chesterton Pump Improvement Program

First pump improvement kits to upgrade existing pumps with larger seal chambers or spiral-wrapped packing chambers and more durable power ends.

Chesterton 890 Wear Resistant Compound

is released.



1988

Chesterton Split Labyrinth Seal

First split labyrinth bearing seal.

Chesterton 1727 Multi-Lon™ Packing

First thermoset synthetic fiber packing with superior chemical and tensile strength properties.

Chesterton 798 Polymer Quartz Compound

is launched.



1989

Dick McDermott retires and Jim Chesterton becomes the 5th President.

1990

1991

The Soviet Union recognizes the independence of the Baltic States; Leningrad reverts back to its old name, Saint Petersburg.

1990

Nelson Mandela is released from prison.

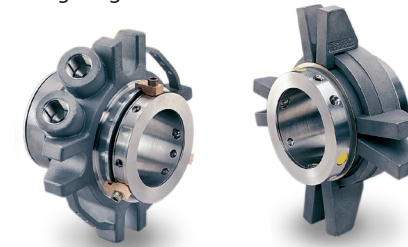
1989

The Berlin Wall is dismantled.

Hirohito dies after 62 years as Japan's emperor.

1992

Chesterton 155 Cartridge Single Seal and 255 Cartridge Double Seal are named 1992 Product of the Year winners by Plant Engineering magazine.



Chesterton becomes the first seal manufacturer in the United States to achieve ISO 9001 certification for quality systems.

Chesterton 1400 Pump and Valve Graphite Tape Packing

First braided graphite tape packing.



1993

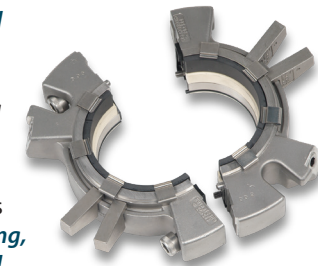
Chesterton 620 Multi-Lube Lubricant

First Chesterton product to incorporate replenishable raw materials in formulation.

1994

Chesterton Split InterLocking Turbine Blade Sealing System

First hydraulic split interlocking turbine blade sealing system for hydropower generation.



Chesterton 442 Split Seal

First split mechanical seal with resiliently mounted faces. A Plant Engineering magazine's Product of the Year finalist.

Chesterton introduces its 5800 WedgeSeal™ Packing, 153 Cartridge Single Seal, and 156 Heavy Duty Slurry Seal.

1995

Chesterton develops its CMS 2000 Injectable Pump Sealant, a high-technology composite outperforming traditional packings.



1995

1994

Nelson Mandela is elected President of South Africa.

The Channel Tunnel opens, connecting England and France—it now takes only 2 hours and 15 minutes to travel from London to France.

1993

Use of the Internet becomes wide-spread.

1996

Chesterton is the first in the industry to be registered to ISO 14001 environmental standard.

Chesterton launches ARC MX1 Coating.

1997

Chesterton becomes an American Society of Machinery Manufacturers Association (ASMMMA) Eagle Award Winner for its Basic Understanding of Chesterton and Our Product Lines employee training program.

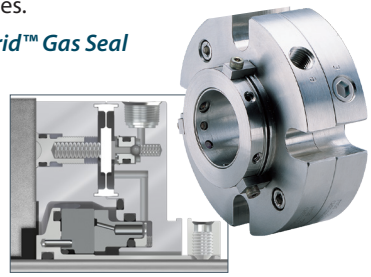
1998

Chesterton Global Training receives the Processing Magazine Breakthrough Product of 1998 Award for online interactive courses.

Chesterton 4400 TwinHybrid™ Gas Seal

First gas seal with built-in regulation in the gland.

Chesterton releases ARC S4 Acid-Resistant Coating.



1999

Chesterton introduces its 610 HT Synthetic Lubricating Fluid, a premium quality, 100% synthetic fluid that cleans as it lubricates.

1999

The Euro is the new European currency.

The U.S. returns the Panama Canal to Panama.

1997

Britain's 99-year lease on Hong Kong ends. It turns the region over to the People's Republic of China.

1998

Two Stanford University Ph.D. candidates, Larry Page and Sergey Brin, establish a company called Google.

1985

1984

Nasa launches the space shuttle program.

1986

Reactor Number Four at the Chernobyl plant in the Ukrainian Soviet Socialist Republic explodes, resulting in the worst nuclear power plant accident in history.

Chesterton Through the Years: 2000 – 2016



2001
Chesterton launches the *Global SpeedSeal™ Program* for machining made-to-order, high-quality polymer seals with turnaround times as low as 24 hours.



2004
Chesterton releases *KPC 820N Water-Based Degreaser*.
Jim Chesterton passes away.
Chesterton acquires Protective Floorings and Linings, Inc.

2000
Chesterton ARC FR1 and *ARC FR2 Marine Foul Release Coatings* are introduced for marine applications.



2002
Chesterton expands its chemical maintenance offerings with its *292 Precision Degreaser* aerosol.
Chesterton ARC 855 HT Coating is introduced.
Chesterton releases *ARC SD4i Coating*, its highest ceramic-reinforced, sprayable coating.

2000

2000
World population is roughly six billion.

2001
Islamic terrorists hijack planes which strike the Twin Towers in New York and The Pentagon.

2003
U.S. British, Australian, and Polish troops invade Iraq.

Interstate 93 is torn down and replaced with tunnels to divert through traffic underground.
The area where 64 India Street once stood is now part of the Rose Kennedy Greenway, an open green space.

2004
An exploration rover from the United States successfully lands on the planet Mars.

Ten states become members of the European Union: Cyprus, the Czech Republic, Estonia, Hungary, Latvia, Lithuania, Malta, Poland, Slovakia, and Slovenia.

2005
Chesterton ARC S7 and ARC NVE Coatings First novolac vinyl ester-based coatings for high temperature, highly oxidizing exposures on concrete and steel surfaces.
Chesterton releases *783 ACR Corrosion-Resistant Anti-Seize*, a metal-free, high-performance anti-seize with corrosion protection and water washout resistance.
Chesterton sells the Stoneham complex and relocates headquarters to 500 Unicorn Park Drive in Woburn, MA.



2006
Andrew Chesterton, the great grandson of A.W. Chesterton, becomes Chairman of the Board.
Dick Hoyle becomes Chesterton's 6th President.



2005

2005
American Cyclist Lance Armstrong wins a record 7th straight Tour de France.

2006
The population of the United States reaches 300 million.

2007
Chesterton introduces 2:1 and 4:1 cartridge packaging for its *ARC S1, ARC S2, ARC SD4i, ARC S4+, ARC 10, and ARC 858* industrial coatings.



2008
Dick Hoyle retires.
Brian O'Donnell becomes the 7th President of Chesterton and is elected to the Board of Directors.



2008
Barack Obama is elected the first African-American president of the United States.

2009
Chesterton adds *ARC HT-T and ARC HT-S Coatings*.



2010
Chesterton wins the *Global Trade Award* from the Massachusetts International Business Council for demonstrated creativity and leadership in international trade-related activities.
Chesterton is recognized as a leader in toxic use reduction—one of 12 facilities featured on the TURA Program's 20th Anniversary Leadership Tour.

2010

2010
Deepwater Horizon oil spill in the Gulf of Mexico, considered the largest offshore spill in US history.

Apple releases the iPad.

2011
Chesterton launches *ARC 1BX1 High Impact Protective Coating*.
Chesterton 1622 Low E Valve Packing wins a Vaaler Award for new products reducing pollutants in the chemical and petrochemical industries.

2012
Chesterton launches its *615 HTG #2-460 Grease*, a QBT™ Quiet Bearing Technology lubricant for large, low-speed bearings.



Chesterton introduces its Sales Toolkit.



2012
Hurricane Irene Category One storm causes significant flooding and destruction along the East Coast of the US.

2013
Using a 3-D printer and cell cultures, physicians and biomedical engineers at Cornell University build a facsimile of a human living ear.

2013
Chesterton receives the President's "E Star" Exports Award—the highest recognition any U.S. entity may receive for making a significant contribution to the expansion of U.S. exports.
Chesterton undertakes its first, extensive abrasion benchmarking study.



Chesterton 442 Split Seal qualifies for NSF61 Drinking Water System Components Certification.

2014
Chesterton 442C Cartridge Split Mechanical Seal offers superior seal performance with the ease-of-installation of a cartridge seal.



2015
Chesterton introduces its Content Management System (CMS) with an app that works with tablets and smartphones.
Chesterton acquires Ceramic Polymers GmbH to establish manufacturing and stocking position in the EU region.



DualPac® Technology

2014

More than \$220 million was raised in the ALS Ice Bucket Challenge as it caught on across the US.

2015
US restores diplomatic relations with Cuba after 5 decades.

2016
Andrew Chesterton becomes Chesterton's new President and CEO.
Grand opening of Chesterton's new headquarters and Global Training Center in Groveland, MA.
Shreveport, LA Service Center for pump repair is opened.
Chesterton's patented *DualPac® Technology* combines two distinct materials in braided pump packing to maximize performance.



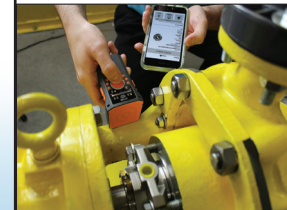
2016
The United Kingdom votes to leave the European Union, known as "Brexit".
The Chicago Cubs broke a 108-year curse by winning the World Series against the Cleveland Indians.

Chesterton Through the Years: 2017 – 2024



2017
Chesterton introduces the **170L Slurry Cartridge Single Seal**.

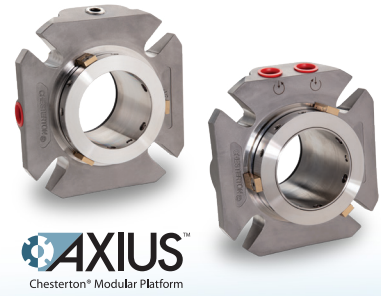
2018
Chesterton Viewin™ Technology
Chesterton is the first in its industry to provide wireless seal identification and record keeping via a mobile app.



2019
Chesterton introduces **ARC S5 Coating** its highest temperature epoxy-based coating for aqueous corrosive exposure.

Chesterton ARC S1 HB Coating
First edge-retentive coating with fluorescent pigments incorporated for aid in inspection.

Built on the **AXIUS™ Modular Platform**, Chesterton's **1810 Heavy Duty Modular Single Cartridge Seal** and **2810 Heavy Duty Modular Double Cartridge Seal** allow for common selection, installation, and operating procedure plantwide.



2020
Chesterton Matrix Rotary Seal, a patented split rotary seal, eliminates equipment teardown in various applications and minimizes downtime.

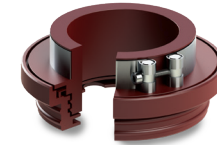
Chesterton ARC MX FG Coating is launched as the first food-grade, FDA compliant, wear-resistant coating.

Chesterton launches the **Chesterton Connect™ System**, a simple-to-use, cloud-based, monitor solution with real-time 24/7 remote monitoring and notifications to improve seal health and pump efficiency.



Chesterton releases **650 AML Lubricant**, its most biodegradable lubricant designed to creep into internal workings of chains, cables, pneumatics, needle bearings, and sliding mechanisms.

Chesterton global workforce finds success working remotely.



2022
Chesterton releases the non-contact **Split Polymer Labyrinth Seal**, offering splash lubricated bearing protection in large pumps, gearboxes, and rotating equipment, and the **1510 Single Cartridge Seal**, designed with a compact cartridge profile to install easily on process equipment.

2021
Chesterton develops **720 CCG (Chain, Cable, and Gear) Lubricant** to help protect chains, wire ropes, and gears exposed to moisture and corrosive liquids and vapors.

2021
Supply chain issues arise due to the COVID-19 Pandemic. Factory closings lead to inventory reduction. Supply chain challenges, due to an increase in consumer demands, a raw material shortages, shipping container shortages, and backups on ports

COVID-19 Vaccine become available.

2022
Queen Elizabeth II of the United Kingdom passes away.

2023
Chesterton AMPS™ Technology offers a unique approach to automatic loading of braided packing in rotary equipment.

Chesterton releases **ARC S3 Coating**, its second food-grade, FDA compliant, thin film, sprayable coating for corrosive and erosive applications.

Chesterton ARC SL-E Coating, a self-leveling epoxy floor coating, added to the ARC product line.

Chesterton hosts regional sales meetings throughout 2023 after a three-years hiatus.



2023
The World Health Organization ended the global emergency status for COVID-19 on May 5th, more than three years after its original declaration.

2024
Chesterton celebrates 140 years of excellence.



Honoring Our Past, Shaping Our Future

2020

2024

2020
COVID-19 Pandemic outbreak becomes a world health crisis.

2017
For the first time in 99 years on August 21, a solar eclipse crosses the US from coast to coast, making for spectacular views of the celestial event of the century.

2018
The wedding of Prince Harry and Meghan Markle captivates the world.

2019
China is the first country to land a spacecraft on the dark side of the moon.