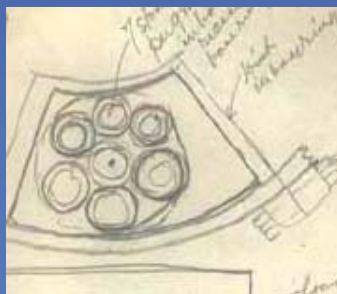
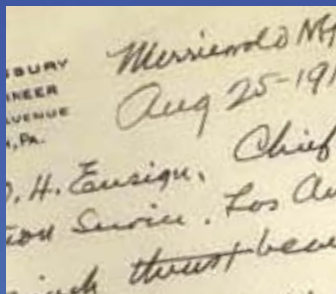
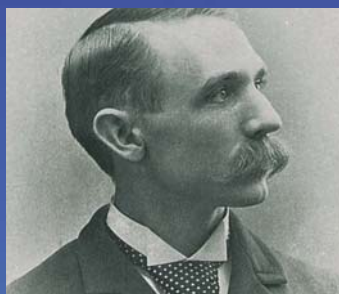


vision

ingenuity

perseverance

integrity

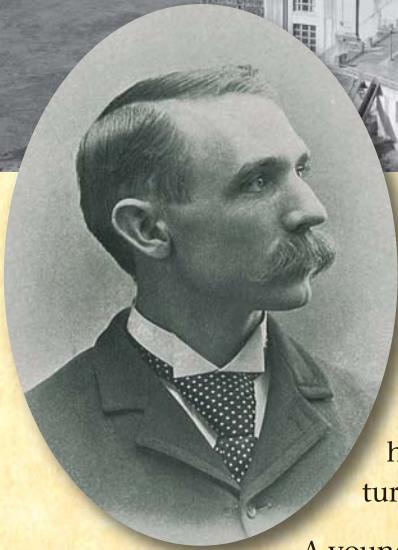
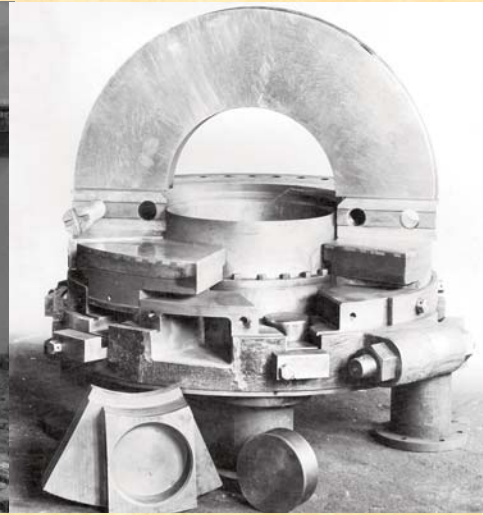
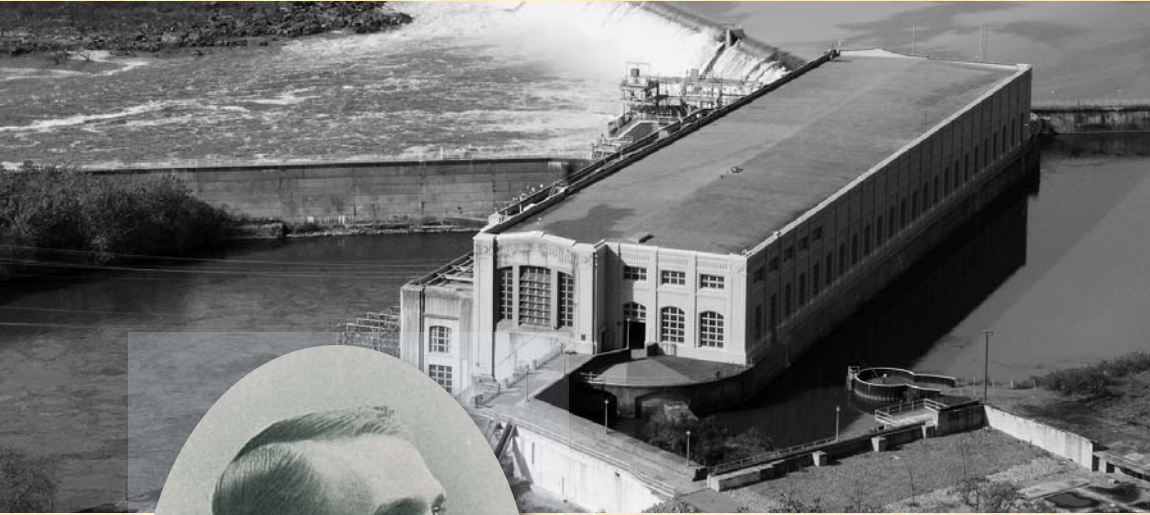


THE KINGSBURY BEARING CENTENNIAL CELEBRATION



vision

In 1912, Kingsbury's ground-breaking fluid film bearing design changed the hydroelectric industry forever.



The first tilt-pad thrust bearing at Holtwood Station.

At the turn of the 20th century, when electricity was coming into widespread use in the United States, utility companies were building hydroelectric plants along the nation's rivers to access the water needed to generate power. They soon learned, however, that the water rushing through the turbines in these hydroelectric plants generated far more force than the roller bearings in the turbines could support.

A young engineer from Westinghouse Electric, named Albert Kingsbury, saw the need for a friction-free bearing capable of handling much greater loads than existing bearings and stepped in to solve the problem.

Albert first became intrigued with lubrication science and its application while enrolled at Cornell University. After graduation in 1889, he went on to teach mechanical engineering at New Hampshire College (now the University of New Hampshire).

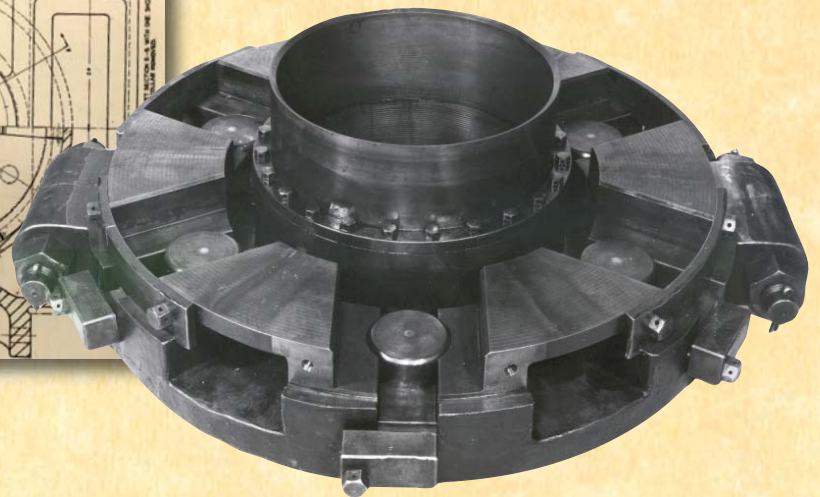
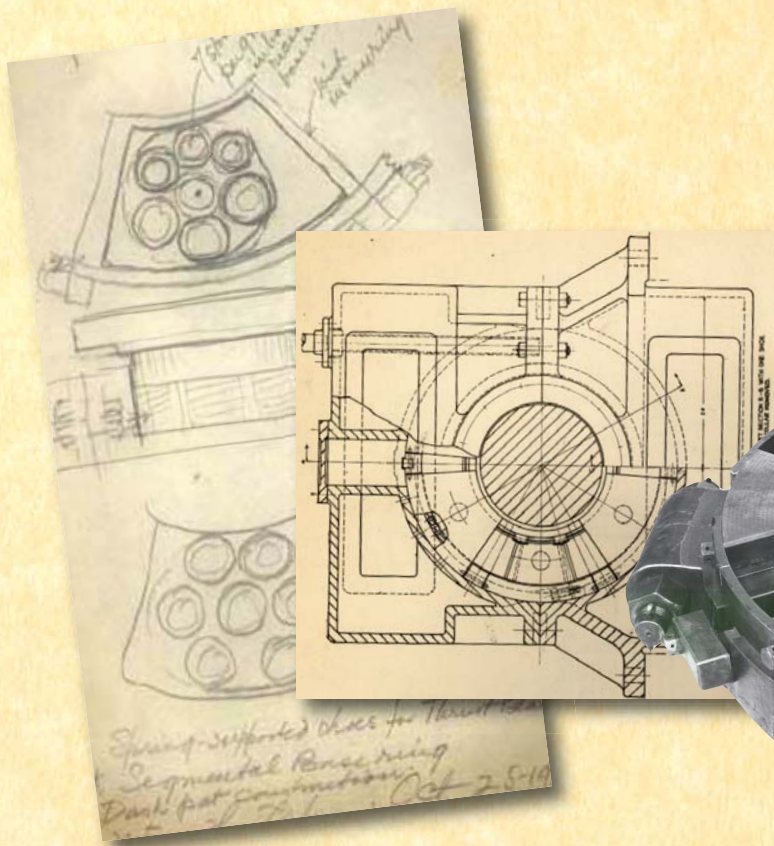
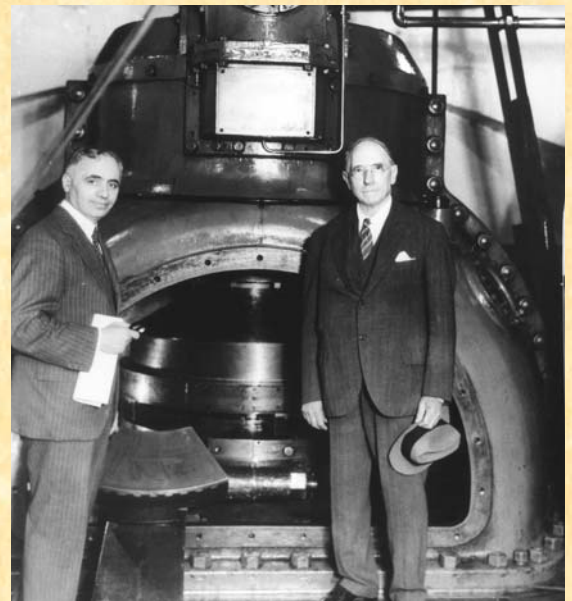
After leaving academia and joining Westinghouse in 1903, Kingsbury seized the opportunity to test his fluid film bearing in machinery, receiving a U.S. patent for his invention in 1910.

Holtwood Station on Pennsylvania's Susquehanna River was one of the most sophisticated hydroelectric plants of its time. Each of Holtwood's ten 10,000-kilowatt turbine generators accepted about 45 tons of force from the water passing through. Conventional roller bearings were failing at the rate of every two months under the heavy loads. The utility turned to Kingsbury, desperate for a solution.

As it turned out, the timing was perfect. Kingsbury was just finishing prototype testing and patent application for a pivoted-shoe bearing that rested on a thin film of oil rather than balls or rollers.

Holtwood invited Kingsbury to install his new fluid film bearing in its No. 5 turbine unit as a test. Although the bearing had not yet been proven in an operational generator, it faltered just once. With a single modification, the bearing performed flawlessly. The rest, as they say, is history.

After 25 years of continuous use Kingsbury's first fluid film thrust bearing at Holtwood Station was inspected and showed almost no wear.



ingenuity

The Kingsbury lubricated bearing has won recognition while winning over high profile customers.



Kingsbury builds relationships with utilities all over the country and the United States Navy.

Albert Kingsbury's contributions to mechanical engineering have been recognized over the last century by a number of well-respected organizations. His many honors include the Elliott Cresson gold medal from the Franklin institute, the John Scott Medal from the City of Philadelphia, Honorary Doctoral degrees from Worcester Polytechnic Institute and the University of New Hampshire, the Modern Pioneer award from the National Association of Manufacturing and the designation as an Honorary Member of ASME. The company was also presented with the prestigious Army/Navy "E" Award for "high production achievement" during World War II.



Above left: The City of Philadelphia's John Scott Award for outstanding contributions to the welfare of mankind was bestowed upon Professor Albert Kingsbury in 1931.

By 1925, over 700 Navy ships had Kingsbury bearings on board. The company continues its support of the military to this day.

Attracted by the success of his bearing at Holtwood, prominent customers like General Electric, Allis-Chalmers manufacturing and the United States Navy soon sought Professor Kingsbury's expertise and wisdom. Encouraged by this, Kingsbury left Westinghouse in 1921 and moved to Philadelphia to start Kingsbury Machine Works.

He continued to look for ways to increase bearing load capacity and soon developed the Equalizing Thrust bearing which utilized pivoted shoes to uniformly distribute the load on the surface to reduce uneven wear. Through the twenties demand for Kingsbury products soared. The bearings gained wider acceptance in power generation as well as marine propulsion.

Kingsbury bearings were installed in the turbine generators of the famed Hoover Dam during its construction.



In 1950, the university of New Hampshire dedicated a building to Professor Kingsbury for his contributions to the field of lubrication science.

perseverance

For a century, Kingsbury has expanded as applications for bearings have evolved.



Dr. Kingsbury created a legacy of achievement that continues to this day.

Kingsbury, Inc. is known for its firsts – first hydraulic thrust bearing, first horizontal pivoted-shoe journal bearing, first directed lubrication bearing (LEG). The company prides itself on providing engineering solutions for unique applications and customer-focused service with a complete toolkit of services that starts with engineering and R&D, moves into manufacturing and continues through to aftermarket support.

Larger, faster machines and new applications require new thinking. So the Kingsbury team is hard at work, engineering solutions to address the needs of the future.

Today, our bearings are found in power plants, refineries and major industrial operations the world over. Anywhere superior performance is required – you'll find the Kingsbury name.





integrity

Company pride and loyalty – strong bonds that stand the test of time.



Family ownership and employee commitment ensure Kingsbury's success now and the future.

The fact that Kingsbury, Inc. is a privately held, family owned company has a lot to do with why it has been successful for so long. It allows the company to plan for long-term growth instead of short-term profits.

This creates stability and longevity in the product offerings and also in the workforce. In fact, it's not uncommon for Kingsbury employees to start their careers at the company and stay for thirty or, in some cases, forty years.

The pride in Kingsbury, its history and its products runs so deep that children often follow in their parents' footsteps and join them on the manufacturing floor or in the front office. It's a close-knit atmosphere where employees enjoy their jobs and work closely together.

Kingsbury's primary mission from the beginning has been to take on the most challenging jobs – the ones that require technical know-how to reach higher speeds, heavier loads, and to take customers' rotating machinery to the next level.

With new products and technical advances, a focused team of professionals and a firm commitment to meeting the needs of every customer, Kingsbury will continue to do what its always done: provide the best bearings in the business.

And we think we do that better than anyone else in the industry!

**The enduring legacy of Albert Kingsbury
has evolved into advanced bearing technologies
for today's critical applications.**



Albert Kingsbury became intrigued with lubrication science as a student at Cornell University. After graduation in 1889, he went on to teach mechanical engineering and soon joined Westinghouse as a young engineer.

Holtwood Station on the Susquehanna River was a sophisticated hydroelectric plant with ten 10,000-kilowatt turbine generators accepting about 45 tons of force from the water passing through. Conventional roller bearings were failing every two months under the heavy loads. The utility turned to Kingsbury for a solution just as he was finishing testing and patent application for a pivoted-shoe bearing that rested on a thin film of oil.

Kingsbury installed his new fluid film bearing in the No. 5 turbine unit as a test and although it had not yet been proven in a generator, it faltered just once. With a single modification, the bearing performed flawlessly. The rest, as they say, is history.

Fast forward to the 21st century. During every second of every day, machines all over the world are working to provide the products society demands. These machines rely on the successful support of bearings. If a machine goes off line, extreme pressure is placed on those involved to correct the problem.

And Kingsbury Inc., the company founded by Albert Kingsbury over 100 years ago, is still at the forefront of the industry – advancing, testing and supporting lubricated bearing technology.

support

Comprehensive Aftermarket Service Capabilities



Kingsbury's Repair & Service team performs field analysis, installation and maintenance on site.

From expert maintenance and retrofits, to on-site analysis and field service, Kingsbury does it all. When you purchase a Kingsbury product of any type, you get more than a bearing. We provide total customer service and support – before, during and after installation.

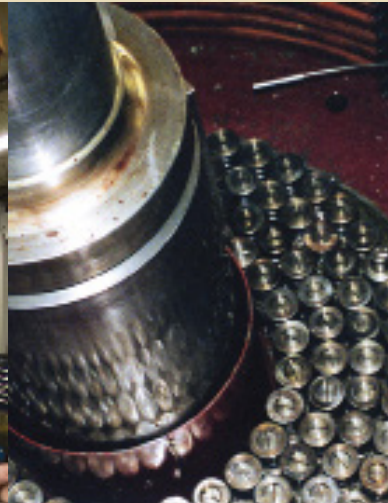
Vertically integrated production assures fast turnaround. Technicians at both our East Coast and West Coast Repair & Service locations are equipped to diagnose, repair and replace worn bearings quickly and efficiently, then return them to you as good as or better than new. If it's not practical to ship your bearing to us, we'll come to you. Our highly trained field service engineers can analyze your problem and get your equipment back on-line as quickly as possible.

Kingsbury Aftermarket Support is focused on our customers' critical needs including:

- 24/7/365 technical support for fluid film bearings
- Fast-turnaround on emergency bearing repairs
- Complete inspection, evaluation, design, and manufacturing capabilities for Kingsbury and other fluid-film makes
- Bearing upgrades and retrofits/replacements
- Field service support anywhere in the world
- Auxiliary systems, condition monitoring, and training
- Application trouble-shooting
- Technical courses for professional development

Worn spring plate bearing assembly.

Installation of VK bearing replacement.



Kingsbury repairs and rebuilds babbitted bearings with a like-new warranty.

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