
HD605
KOMATSU

“Optimize your TCO with our bearing solutions.”

Steve Quintijn

Regal Beloit

Regal Beloit Corporation (NYSE: RBC) is a leading global manufacturer of airflow, motion control, power transmission and power generation solutions used in commercial, industrial and residential applications. From electric motors and generators to mechanical gear drives, bearings and couplings to electronic controls, Regal's products and systems convert power into motion and motion into power to help the world run more efficiently.

Regal has sales, engineering, manufacturing and distribution facilities throughout the Americas, Europe, Asia, Africa, and Australia.

Power Transmission Solutions - one of Regal's business segments - is much more than an array of well-respected product brands. Together they provide solutions. Solutions that deliver superior performance. Solutions that blend the latest in technology with their years of experience and expertise. Solutions that keep your business moving ahead.

We meet Steve Quintijn in Regal's EMEA Bearing Headquarters in Kontich, Belgium. Steve is marketing / product manager for Rollway, McGill and Sealmaster at Regal Beloit in the Power Transmission Solutions business segment. He is since 6 years with the company and has a vast experience in international marketing.

"One of my first jobs was at the Belgian Marketing Foundation where I had the pleasure to work in an environment with marketing, advertising and communication leaders. That was the true start of my marketing passion. After that period, I have been working for international leading companies like Epson (printing business), Komatsu (mining and construction equipment manufacturer) and Altran (global leader in innovation and high-tech engineering) before entering the bearing world in 2011. Komatsu has been my longest experience till now with almost 8 years of service in the Belgian location (EMEA parts distribution center and European machine sales center)."

How does your experience help you in your current job?

"Belgium is a small yet important country in international business. Business has brought me in many countries in EMEA, Asia and the Americas and I have learned to blend in in other cultures. Knowing the basics about a culture like history, gestures, sensitive subjects and liking the local food still opens many doors. My previous functions also helped me getting a close view on several industries like earthmoving equipment, food & beverage and I have worked with great people in Kaizen, systematic innovation and lean manufacturing."

Which bearing brands do you have in your portfolio?

"Rollway, McGill and Sealmaster are the main bearing brands we support from our location in Belgium. Founded in 1908, Rollway provides over 7.000 different types of ball and roller bearings. These bearings can be used in various industries like oil & gas, mining, agriculture, and various applications like pavers, harbor cranes, gearboxes, steel mills and many more.

McGill was founded in 1905 and patented the CAMROL® cam follower bearing, which today is offered in more than 1.400 different combinations and configurations. McGill products also include aerospace bearings, needle and single row spherical bearings. Sealmaster, the master of mounted bearings, was founded in 1935 and is the industry's preferred bearing product, known for its premium-quality mounted ball-bearing line, as well as its mounted roller bearings."

Do you focus on specific industries?

"Due to the very diverse and international customer base we have, I am more of a generalist working closely together with our industry specialists and engineers. The past years I have been to many customers and have seen successful applications in very diverse industries. Main goal with all these customers is optimizing their TCO with our bearing solutions. For instance, a famous European brewery was doing many actions for lean and clean operations and wanted to find a solution for the excessive lubrication of their bearings.

We advised them our Sealmaster PN Gold reduced maintenance bearings that do not require any additional re-lubrication. This was a durable and environmental healthy solution for the brewery. There was also a huge potato chips plant where starch was a nightmare for the

bearings and caused a too short lifetime. We were able to satisfy the customers' needs with Sealmaster PN Gold and even overachieved the set target, we doubled the lifetime of the previous installed bearings. Rollway is an interesting brand since we have a range from very small up to the large sizes. My favorite is ball bearing 618/1500, because on the outer diameter it's as tall as I am. This bearing is used in a centrifugal casting machine and the customer choose Rollway because the brand they used before didn't reach the desired life.

A sweet solution was provided in the food industry where we provided spherical roller bearings that are mounted in a chocolate refiner. For a chocoholic like me it's good to know we were able to reduce the customers' downtime. You can also see us in many harbors as one of the world's leading RTG cranes (Rubber Tired Gantry) OEM's uses several sizes and types of our Rollway bearings as first-fit. Rollway bearings do what they need to do: they keep the application moving."

There are many success stories for every brand, so also for McGill. A fish processing plant was incurring sizeable costs to maintenance and repair of their machines with standard cam followers that seized due to the corrosive environment. Our stainless steel CRES CAMROL product has been designed to operate in these taxing conditions, improving machine reliability and extending operating life. This fish processing plant uses equipment specifically designed to remove viscera and roe.

The standard cam followers installed within the machines are exposed to highly corrosive conditions. Consequently, standard cam followers corrode and seize, resulting in damage to the cam in which they ride. The cost incurred to replace the entire cam is prohibitively more expensive than simply replacing the cam follower, and machine downtime creates significant production inefficiencies for the plant.

To help reduce these significant replacement costs, Regal recommended the dimensionally interchangeable McGill CRES CAMROL line, which is designed with 440C stainless steel to help resist corrosive environments. The Lubri-Disc+ seal also provides significant protection against wash downs, more than 5 times compared to our standard Lubri-Disc seal. To further improve bearing life, we recommended a crowned outer diameter, which allows for greater misalignment while maintaining even load distribution. Always great to see a customer smile when we provide solutions!"

What do you expect from 2017?

"I keep Conan O'Briens quote in mind: 'If you work really hard, and you're kind, amazing things will happen'. Get in touch to see which magic we can do for you and your TCO in 2017."

"Sealmaster, McGill and Rollway will be at the HannoverMesse trade show in Hannover, Germany from 24 till 28 April. Come visit us in Hall 24 in the EPTDA Pavilion."

Do's and don'ts of cam follower installation

If you have cam follower bearings installed in your facility, then maintaining a great performance from those bearings will be something you are interested in. You can help obtain great bearing performance if you keep some particulars in mind during installation.

Scan the QR code to watch The Do's and Don'ts of Cam Follower Installation on our Power Transmission Solutions YouTube channel

DO

1.Do install the oil hole plug in applications where the bearing will not be re-lubricated. Because it's an optional part of the installation, in applications where re-lubrication will be performed, the user may be inclined to discard the oil hole plug. Installing the plug helps protect the bearing from contaminant entry, such as fine grit, metal dust or liquids, promoting longer life. Longer life means less down time and fewer bearing replacements. Plugs are provided with all McGill stud type cam followers, so better safe than sorry.

2.Using a press fit on the stud helps to create proper support of the stud in application; it can be used when installing stud-type cam followers. Press fitting is when you have an interference fit requiring you to apply pressure on the stud end face of the bearing. Be sure to apply the pressure through the stud end face, preferably using an arbor press.

3.Specifically, for the yoke type bearings: please do back up the bearing's end plates. Yoke type bearings require a housing to support the end plates. Do not shirk on keeping the end plates supported. Keeping those end plates supported maintains the bearing's proper assembly in operation, and helps avoid premature application breakdown and possible injury due to disassembly. It will also prevent unnecessary bearing replacement and unnecessary cost.

4.You may know that stud type cam followers require a certain amount of torque applied to the locking nuts, in order to adequately lock the stud in place. Clamping torque info is provided in our bearing catalog, as well as in instruction sheets. Do torque McGill bearing nuts accordingly! Those charts are there for a reason. Overtorque can cause bearing damage and undertorque can allow bearing disassembly. Excessive torque can result in stud elongation or fracture. Inadequate torque can allow the cam follower to become disassembled from the housing. Keeping the proper torque as shown in the bearing's chart will maintain clamping pressure adequate to lock the stud in place, keeping the bearing in its intended position.

5.Some applications need little maintenance, such as those involving slower speeds, fairly clean environments and ambient temperatures. However, re-lubrication becomes more crucial as application speed, temperature, or contamination levels increase. Do regularly inspect and as necessary re-lubricate your bearings. Keeping your bearings in top condition maximizes their operational performance and life. Regular check-ins are also a good opportunity to inspect the state of their installation and working environment.

DO NOT

1.During installation, do not hammer directly on the bearing! Doing this can cause damage to your bearing or injury to those involved.

2.Don't neglect your bearings. I don't need to tell you that negligence can result in permanent damage and shorten operating life. In short, you're wasting money.

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