

INDUSTRY
Spotlights

INDUSTRY SPOTLIGHT

Primary Metals

TOUGH ENVIRONMENTS REQUIRE TOUGH PRODUCTS...

A steel mill was experiencing premature bearing failure that it suspected was a lubrication problem. After nearly two years of frequently replacing bearings, the company called Osborn.

Once on-site, the Osborn field sales engineer confirmed a lubrication problem, but also identified a more urgent problem...the customer was using undersized rollers. Compounding the problem, the application included significant shock loads that were damaging the bearings almost immediately upon installation. After solving the shock load issue, Osborn configured a completely new solution with beefier, case-hardened eccentric Load Runners and used proprietary high-temperature lubrication. Before the change, the old cam followers were lasting less than two months. The mill's new Load Runners have been in service more than six months and they're still going strong.



Other related applications

- Foundries
- Mould Handling Equipment
- Steel Mills
- Coil Conveying Systems
- Heat Treat Furnaces
- Recycling Scrap Yards
- Shredders
- Aluminum and Copper Plants



INDUSTRY SPOTLIGHT

Oil Field & Petrochemical

RELIABILITY THROUGH PROPER ALIGNMENT...

A customer in an oilfield was experiencing an ongoing misalignment problem with their cam follower and rail system. After several failed attempts to re-align the rails on their own, they called Osborn.

The problem they faced is fairly common -- parallel rails with extended runs using plain cam followers and rail exclusively has a tendency to misalign. The solution was rather straight-forward: Osborn engineers specified v-groove cam followers and rail on one side, and plain cam followers and rail on the other. This new, dual configuration provided the additional "wiggle room" needed to help maintain system tolerances, and prevent premature failure. Best yet, as stock product, the replacement rails and Load Runners were delivered, installed, and performing flawlessly just two weeks after the order was placed.



Other related applications

- Coiled Tubing
- Injection Systems
- Power Tongs
- Fracking



INDUSTRY SPOTLIGHT

Automotive

KEEPING ASSEMBLY ON TRACK...

Load Runners are used on conveyor and handling systems in assembly plants and cylinder-actuated carriages on equipment, such as paint operations, sub-assemblies, automated storage and retrieval systems. High levels of weld spray and dirt combined with fluctuating ambient temperatures can spell disaster for idler rollers. Not only are Load Runners up to the operating environment, but they are designed to handle both high loads and speeds. Best yet, all Load Runners are tightly sealed and lubricated for life.



Other related applications

- Assembly and Paint Line Conveying Systems
- Automated Storage and Retrieval
- Robotic Welders



INDUSTRY SPOTLIGHT

Off-Highway Equipment: Agriculture, Construction, and Mining

KEEP YOUR MACHINE RUNNING STRONG...

...with Osborn Load Runners and Load Rails.

Osborn Load Runners have proven themselves in machines from sugar cane harvesters to haulage trucks, all manufactured by such companies as Caterpillar, Case, Komatsu, International, Liebherr, John Deere, Dresser, etc.

Approximately 20 percent of any off-road heavy machinery's purchase price is contained in the undercarriage. More importantly, nearly 50 percent of maintenance costs will go into maintaining it. We know that one weak link in a system can cause a problem. That's why many undercarriage systems are integrally designed using Load Runners and Load Rails®. Osborn engineers work with your design team so that all components are carefully matched in a performance profile (tolerance, strength, hardness, and wear limits) for optimum performance and product life cycle. Although wear can never be eliminated, you can prolong the wear life of components and minimize maintenance costs with the properly designed idler roller and rail solution.

Other related industries

- Construction
- Mining
- Pulp and Paper
- Sawmills





INDUSTRY SPOTLIGHT

Aggregate & Mining

STUCK BETWEEN A ROCK & A HARD PLACE...

A large aggregate supplier was having premature cam follower bearing failure at the end of its heavy-duty material handling line. Loose material was falling onto the rails and repeatedly jamming the treads, causing excess heat and breach of seal integrity.

Osborn analyzed the application and changed out the quarry's rail and cam followers to a stock Load Runners V-groove configuration. The improvement over the previous solution was immediate and dramatic.

The resulting product performance was measured at more than five times that of the previous plain cam follower and rail combination. The company's investment in Load Runners translated into less downtime and increased productivity.



Other related applications

- Cement
- Concrete Batch Feeding Systems
- Hot Clinker Apron Conveyor
- Sand and Gravel
- Telescoping Conveyors and Stackers
- Screening Systems
- Coal
- Feeders, Hoppers, Bins and Gates



INDUSTRY SPOTLIGHT

Kinetic Architecture

DESIGNED BY ENGINEERS FOR ENGINEERS...

Load Runners and Load Rails are proven performers in some of the world's most challenging applications. Through collaborative and visionary engineering on some of the world's large moveable structures, Load Runners have become the workhorse of the kinetic architecture world. Strong and sturdy, Osborn's heavy-duty, custom solutions have powered kinetic architectural projects across the globe with challenging load cases, including operable roofs from 80'–200' and operable walls as tall as 139'.

Featuring tapered roller bearings, Load Runners heavy-duty idler roller bearings handle both heavy radial as well as thrust loads. Maintenance-free units are lubed for life with seals to keep out sand, moisture, and other contaminants. Load Runners are manufactured in either inch or metric dimensions in virtually limitless geometries and tread configurations. Typical tread profiles are plain, flanged, or V-grooved.

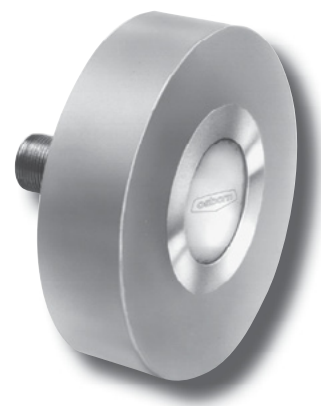
Important Note For All Designers and Engineers:

To ensure any product selection performed provides the end users with the lowest total cost of ownership, we have provided a design submission sheet, located on page 90/91 of this catalog. This selection process may result in some dimensions of the selected product(s) differing from those stated in this catalog or on loadrunners.com.

In the interest of product development, Osborn reserves the right to change critical data at any time without prior notice. Dimensions shown are nominal only. Certified drawings are available upon request.

Other related applications

- Wall Units
- Set Design
- Retractable Doors / Ceilings
- Bridges, Gangways
- Satellite Dish / Telescope Positioning





INDUSTRY SPOTLIGHT

Food & Pharmaceutical

PEAS & GREASE DON'T MIX...

From low-speed, quiet applications (for patient comfort) on medical equipment to high-speed, reliable, and maintenance-free pharmaceutical and packaging applications.

Osborn Idler Rollers can be engineered to meet the diverse conditions that are required in this ever expanding industry.



Other related applications

- Bakery Cooling Towers
- Drug Packaging Conveyors
- Can Processing Equipment
- MRI Machines
- Bottle-Filling Machines



