

Low Noise Aluminium Roller

Light weight, low noise, corrosion resistant roller

NEPEAN® Conveyors have significant experience in designing conveying solutions that are safe, reliable and enable maximum productivity levels.

NEPEAN Conveyors specialise in products for the future of mining.

Our low noise aluminium roller has a unit weight approximately 35% lighter than an equivalent steel roller. The NEPEAN Conveyors Low Noise Aluminium Roller has been specifically designed for bulk handling port applications where noise, weight and corrosion resistance are of paramount importance. Precision material selection and Australian manufacturing capabilities allow us to produce these high performance rollers in large volumes and with short lead times.

The extreme accuracy is achieved by the use of NEPEAN Conveyors high quality conveyor tube that has exacting levels of dimensional accuracy, especially in the areas of wall thickness, roundness (TIR) and straightness. The reduced inertia grants a significant reduction in the power required to start and stop a belt conveyor.

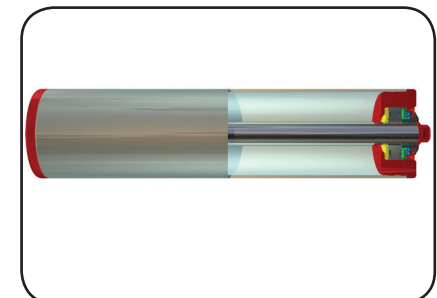
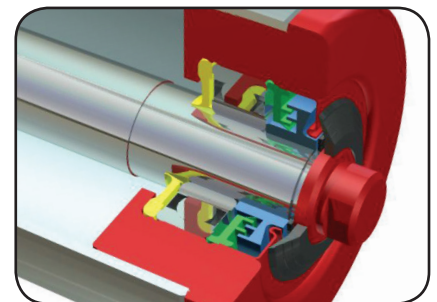
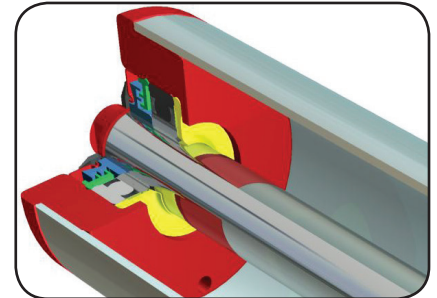
In addition, the non-metallic end cap provides some dampening of vibration which further reduces the roller noise. The low noise aluminium roller is designed to withstand the most arduous of applications.

Extensive FEA has ensured that the finished roller is able to withstand loads and stresses that are experienced by traditional welded steel rollers. The end cap is manufactured from a material that has exceptional mechanical and fatigue life characteristics.

It is also UV resistant to withstand years of service in the harshest of environments.

BENEFITS:

- ◆ **Fire resistant and anti-static components**
- ◆ **Light weight and quieter than standard steel rollers - OH&S**
- ◆ **High tensile strength alloys, no fatigue type failures**
- ◆ **Corrosion resistance, suitable for highly corrosive environments (salt)**
- ◆ **All aluminium tube flare tested**
- ◆ **Fine tolerance, better TIR & MIS than standard steel rollers**

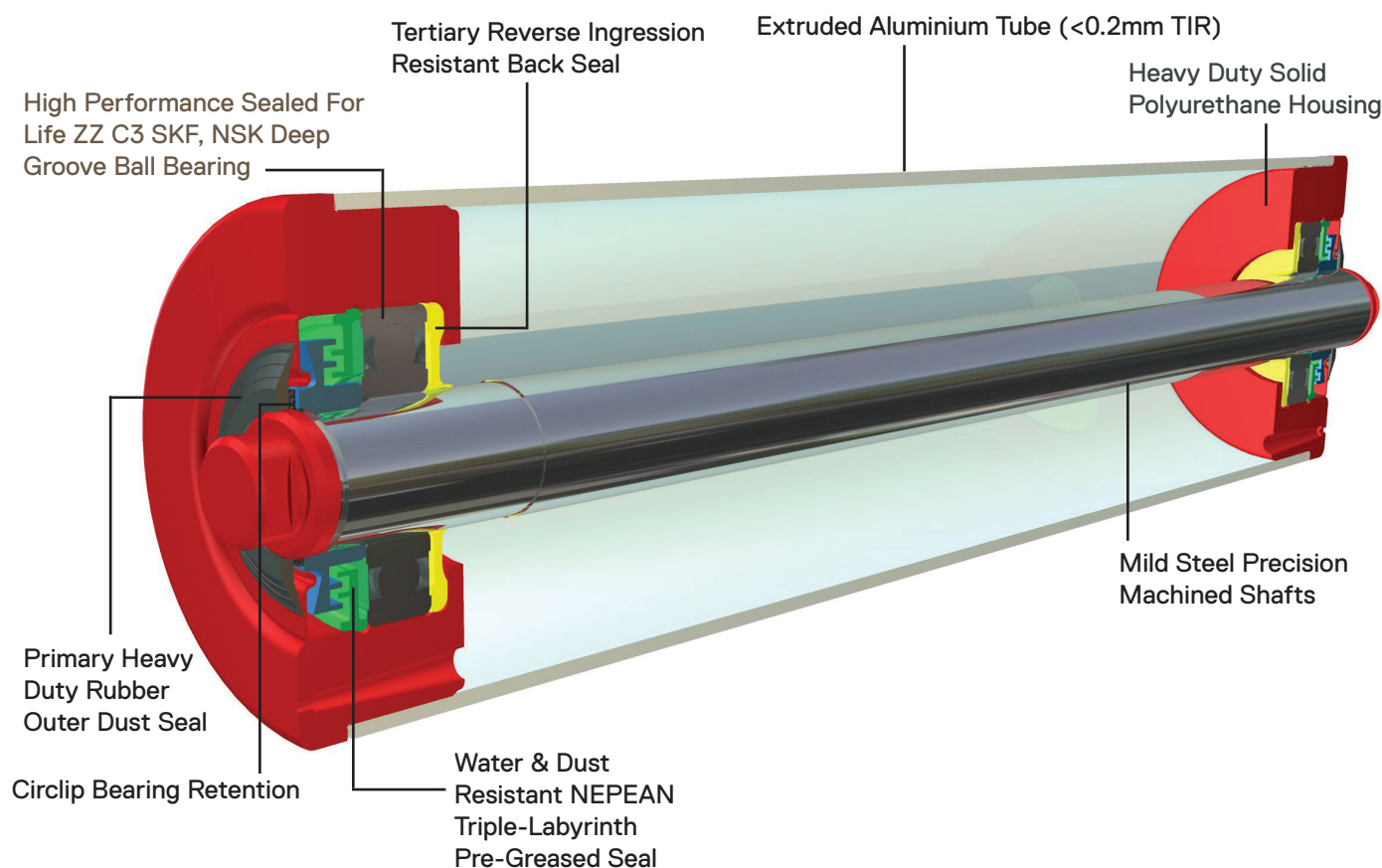


“Significant OH&S benefit where access is difficult and requires alot of manual handling”

SPECIFICATIONS

| | Description |
|--------------|--|
| Housing | Injection moulded polyurethane |
| Shell | T6106 alloy tube AS 1866 |
| Seal Options | NEPEAN designed triple-labyrinth seal from fire retardant FR15 nylon |
| Bearing Type | SKF, NSK or customer specified choice |

Aluminium rollers are ideally suited for corrosive environments. They provide significant improved life where shell corrosion results in premature roll failure.



PROBLEM

Excessive noise generated from rollers in operation causing noise pollution

RESULT

Disturbance to surrounding environment and worker wellbeing

NEPEAN SOLUTION

Low noise aluminium composite roller alternative

For more information:

1800 NEPEAN | www.nepeanconveyors.com

NEPEAN® CONVEYORS ARE AUSTRALIA'S MARKET LEADER

NEPEAN Conveyors operate the most advanced, high tech idler production facility in Australia. We offer complete conveyor system solutions and support services to the mining and resource industries.

NEPEAN Conveyors, internally developed, industry-leading software and extensive manufacturing capabilities have allowed us to provide an extensive portfolio of products and services to independently deliver unique, high quality results. NEPEAN Conveyors offer a one stop conveyor solution.

WITH MORE LOCATIONS, WE'RE NEVER FAR AWAY

We design and manufacture in multiple locations around Australia. We are strategically located close to major mining areas so we can service our coal, iron ore, hard rock and port customers.