NEPEAN Conveyors manufactures and supplies a comprehensive range of oil immersed multi-plate disc brakes specifically designed for dynamic braking of belt conveyor systems. Their compact design and large dynamic capacity make them ideal for heavy duty underground mining applications.

BUILDING TECHNICAL CREDIBILITY SINCE 1985
A leading manufacturer providing technical credibility and design innovation that has evolved since 1985. More compact and dynamic than ever before, brake operation for all models is spring applied hydraulic release (SAHR) type, the safest system available.

Benefits of NEPEAN Designs
Compliance
Our braking systems are supplied in accordance with relevant standards and guidelines.

Unmatched Support
Well established support facilities in Australia and South Africa.

Compact
The most advanced, compact oil-immersed multi-plate design.

Safe
Spring Applied Hydraulic Release operation (SAHR) ensures fail-safe application of brake during power-loss situation.

Wide Scope of Expertise
Dynamic capacities ranging from 3,000Nm to 160,000Nm with other options available.

Flexible
Gearbox or pulley shaft mounting options, explosion proof controllers and power units available.

High Performance
PLC controlled deceleration, manual brake release function, high thermal capacity, air or water cooling, PLC proportional deceleration (if required). Brakes can be proportionally controlled to ensure stop times that are repeatable and accurate.

Robust
Long service life due to superior engineering and constant immersion in lubrication.

Stand-Alone Power
Dedicated power unit provides hydraulic pressure and brake control function.
Conveyor Braking Systems

<table>
<thead>
<tr>
<th>Dynamic Capacity (Nm)</th>
<th>Typical Shaft Mounting</th>
<th>Typical Stopping Time (Seconds)</th>
<th>Maximum Speed (rpm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>160,000</td>
<td>Pulley</td>
<td>10 - 60</td>
<td>150</td>
</tr>
<tr>
<td>100,000</td>
<td>Pulley</td>
<td>10 - 60</td>
<td>150</td>
</tr>
<tr>
<td>60,000</td>
<td>Pulley</td>
<td>10 - 25</td>
<td>150</td>
</tr>
<tr>
<td>12,000</td>
<td>Reducer</td>
<td>10 - 25</td>
<td>150</td>
</tr>
<tr>
<td>6,000</td>
<td>Reducer</td>
<td>10 - 25</td>
<td>1,800</td>
</tr>
<tr>
<td>3,000</td>
<td>Reducer</td>
<td>&lt; 15</td>
<td>1,800</td>
</tr>
</tbody>
</table>

By utilising a multi-plate arrangement, large torque capacities can be obtained in an efficient compact design. Coolant oil is constantly circulated through the assembly to provide lubrication for bearings, minimise wear and remove heat from friction surfaces.

NEPEAN IS AUSTRALIA’S MARKET LEADER

70% of Australian underground coal mines have invested in NEPEAN belt conveyor braking equipment. NEPEAN Conveyors is the large scale mining conveyor projects arm of NEPEAN Mining, NEPEAN Mining is a division of NEPEAN™, Australia’s largest privately owned engineering, mining services and industrial manufacturing organisation. NEPEAN Conveyors, NEPEAN Power and NEPEAN Longwall provide an extensive portfolio of products and services. Each can independently deliver unique, high quality results, or as one company, we offer a one stop mining solution.

WITH MORE LOCATIONS, WE’RE NEVER FAR AWAY

We design and manufacture in multiple locations around Australia and South Africa. We are strategically located close by to major mining areas so we can service our Coal, Hard-Rock and Port customers.

For more information please contact:

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www.nepean.com

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