Nexen’s I300 brake is designed for zero backlash holding and emergency stopping making it ideal for indexers and positioning systems. The spring engaged, air released, patented braking element locks and holds the shaft in position without any displacement or reversing of the load. It is flange or shaft mounted and has a keyless compression bushing shaft connection for easy installation and IP67 rated when flange mounted. High torque and short response time ensure the shortest possible stopping distance and precise holding. Brakes can be stacked for additional holding power or redundant braking.

**Features**

- Zero backlash
- Torque up to 600 Nm [5311 in-lbs]
- No shaft rotation due to brake actuation
- Shaft end or through shaft mounting
- Capable of 2000 RPM
- Spring engaged, air released
- Releases at 4.1 Bar [60 psi]
- Stackable for higher holding power or redundancy
- IP67 rated
### Dimensions

![Dimension Diagram]

### Product Specifications

**Maximum Brake Torque:** 600 Nm [5300 in-lbs]

**Bore Styles Available:** Straight with or without keyway

**Maximum Bore Size:** 65mm [2.56 in] with coupling, 72.00 mm [2.835 in] with key

- **Backlash:** Zero with keyless coupling
- **Release Pressure:** 4.1 Bar [60 psi]
- **Torsional Rigidity:** 8,341,000 Nm/rad [6,152,000 ftlb/rad]
- **Rotational Inertia:** 0.0212 kgm² [0.502 lb-ft²]
- **Dynamic Capability:** E-stops allowed, no cyclic dynamic stopping allowed
- **Engagement Response Time:** 85 ms
- **Ratings:** IP67 when end mounted and sealed to the machine frame
- **Service Life:** 1 million holding cycles, dynamic stops application dependent
- **Temperature Range:** 4 to 0°C [40 to 200°F]
- **Construction:** Cast iron housing, steel coupling access cover, black paint

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Brake Bore (A)</th>
<th>Bore Type</th>
<th>Shaft Size (B)</th>
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<tbody>
<tr>
<td>965500</td>
<td>65.00 mm [2.559 in]</td>
<td>Coupling</td>
<td>Coupling Dependent</td>
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<tr>
<td>965501</td>
<td>72.00 mm [2.835 in]</td>
<td>Coupling</td>
<td>Coupling Dependent</td>
</tr>
<tr>
<td>965502</td>
<td>65.00 mm [2.559 in]</td>
<td>Keyed*</td>
<td>65.00 mm [2.559 in]</td>
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</tbody>
</table>

*Keyed shaft connections will add backlash

See sales drawings on the product pages on Nexen’s website

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**Suggested Customer Supplied Couplings**

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<tr>
<th>Brand</th>
<th>Model</th>
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<td>B-LOC</td>
<td>B800</td>
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<tr>
<td>Climax Metal</td>
<td>170 Series</td>
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<tr>
<td>Gerwah Peter</td>
<td>PSV 2010.1</td>
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<td>KTR Clampex</td>
<td>KTR 250</td>
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<td>Lovejoy SLD</td>
<td>SLD 1900</td>
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<td>Midas*</td>
<td>Compomac</td>
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<td>US Tsubaki</td>
<td>PL TF</td>
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</tbody>
</table>

*Keyed shaft connections will add backlash

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Nexen has sales offices throughout the United States, Europe, Japan, and Australia.

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