GENERAL INFORMATION

The DYMOT range of power take-up winches have been specially developed for use on long overland and underground conveyors and are ideally suited for use with automatic tensioning systems. The unique design, using a combination of worm and epicyclic gears offer numerous advantages over the conventional designs. The new design uses a failsafe disc brake with IP65 protection, this overcomes the problem previously encountered with rust which resulted in high maintenance and brake failure. This design has also eliminated the need for a brake drum type coupling through the use of a double input shaft primary gearbox.

FEATURES

- The combination of gears provides for greater mechanical protection due to the use of high ratio worm gears which will help to resist runaways in the event of a brake failure.
- The use of a separate motor and brake allows the winch to remain locked in position while a failed motor is repaired.
- The epicyclic final gear presents a massive face width of gear tooth to withstand the shock loads which can be encountered during belt start-up.
- The design and style of these winches are very compact, thus allowing easy positioning of the winch in the conveyor structure.
- The take-up winch speeds can be varied to suit customer’s requirements by simply changing the worm gear ratios.

NOTE: As with all DYMOT products spares and service are guaranteed.
### SPECIFICATION

#### Type No.
- **Motor**: Speed, Load, Rope Ø, Drum Capacity, Mass, A Ø

<table>
<thead>
<tr>
<th>Type</th>
<th>Motor</th>
<th>Speed</th>
<th>Load</th>
<th>Rope Ø</th>
<th>Drum Capacity</th>
<th>Mass</th>
<th>A Ø</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>3 kW</td>
<td>4 pole</td>
<td>7 m/min</td>
<td>1.8 ton</td>
<td>160 m</td>
<td>476 kg</td>
<td>18</td>
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<tr>
<td>2</td>
<td>4 kW</td>
<td>4 pole</td>
<td>6.8 m/min</td>
<td>2.5 ton</td>
<td>130 m</td>
<td>593 kg</td>
<td>22</td>
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<tr>
<td>3</td>
<td>5.5 kW</td>
<td>4 pole</td>
<td>6.4 m/min</td>
<td>3.5 ton</td>
<td>90 m</td>
<td>721 kg</td>
<td>22</td>
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<tr>
<td>4</td>
<td>7.5 kW</td>
<td>4 pole</td>
<td>5.4 m/min</td>
<td>5.5 ton</td>
<td>120 m</td>
<td>780 kg</td>
<td>22</td>
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<tr>
<td>5</td>
<td>11 kW</td>
<td>4 pole</td>
<td>7.7 m/min</td>
<td>6.5 ton</td>
<td>190 m</td>
<td>1280 kg</td>
<td>26</td>
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<tr>
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<td>6.3 m/min</td>
<td>8.5 ton</td>
<td>130 m</td>
<td>1337 kg</td>
<td>26</td>
</tr>
<tr>
<td>7</td>
<td>18.5 kW</td>
<td>6 pole</td>
<td>6.8 m/min</td>
<td>11.5 ton</td>
<td>180 m</td>
<td>1703 kg</td>
<td>26</td>
</tr>
<tr>
<td>8</td>
<td>22 kW</td>
<td>6 pole</td>
<td>6.5 m/min</td>
<td>15.0 ton</td>
<td>110 m</td>
<td>2535 kg</td>
<td>33</td>
</tr>
</tbody>
</table>

#### Diagram

- **Front Elevation**
- **Side Elevation**
- **Plan View**

#### Notes:
1. Rope force and speed calculated on first layer of rope.
2. Failsafe Brake: Power off Brake on
3. Drum capacities shown are storage for working length multiply by 0.7.

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