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Sumitomo's Hyponic® gearmotors are replacing inefficient conveyor drives worldwide and are used to upgrade existing worm-gear driven conveyors of all types, as well as new installations. This data sheet illustrates one upgrade application and the associated benefits.



Hyponic® Gearmotor

Distribution Center Conveyor Drive Upgrades

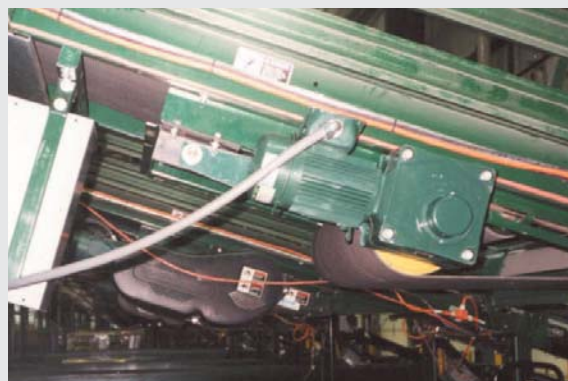
- Simplified, less costly installation
- High operating efficiencies and reduced energy costs
- Safe operation with reduced risk to personnel
- Minimal maintenance and maintenance parts inventory



Problem:

Old Worm Gear Reducer and Motor

- Labor intensive installation
- High maintenance and oil leak problems
- Low operating efficiencies of only 65%, high operating cost
- Difficulty of removal from shaft and installation
- Higher risk to personnel



Solution:

Sumitomo Hyponic® Gearmotor

- Grease lubricated for life, no oil change required
- 85% efficiency, lower operating cost
- Lightweight and compact, with simple installation
- Integral, Quill, or C-Face mounting designs
- Maintenance free with no maintenance parts inventory required
- Lower cost initial equipment investment
- Eliminated belt tensioning and belt alignment problems
- Safe, with no exposed belts and minimally exposed moving parts

Eliminated Parts and Associated Inventory

As a result of Hyponic upgrade of this application, these parts were eliminated from both initial installation and maintenance.



Motor Plate



Belt & Sheaves



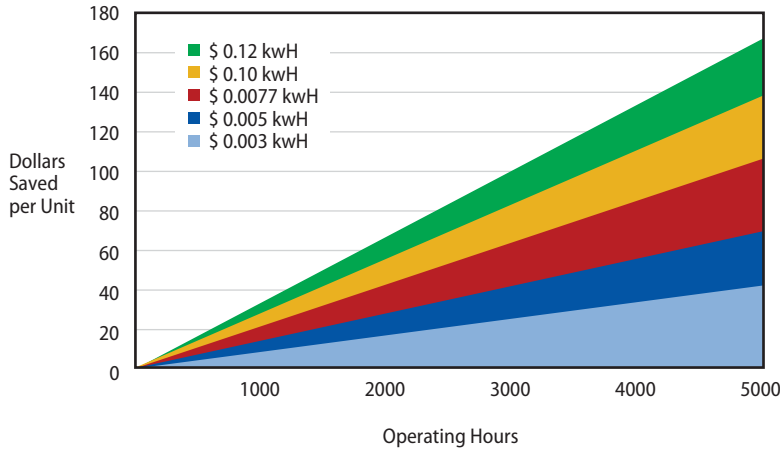
Back Belt Guard



C-face Adapter & Drip Pan



Front Belt Guard



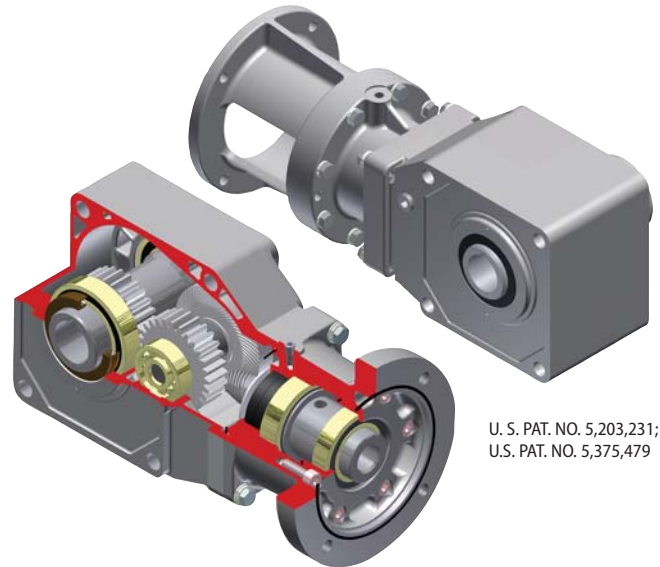
2 HP Hyponic Operating Cost Savings

A typical Distribution Center with 300 Shipping Lane Conveyors will realize approximately \$40,000 savings in energy costs (\$0.77/kWh) annually.

Hyponic Selection Chart

HP	FPM	Frame Size	Ratio	Shaft Dia.	HP	SF
.5 HP	99	RNY-1420	40	1-3/8	1.07	2.1
.5 HP	79	RNY-1420	50	1-3/8	1.07	2.1
.5 HP	66	RNY-1420	60	1-3/8	1.07	2.1
.5 HP	49	RNY-1530	80	1-7/16	1.07	2.1
.75 HP	99	RNY-1420	40	1-3/8	1.07	1.4
.75 HP	79	RNY-1420	50	1-3/8	1.07	1.4
.75 HP	66	RNY-1420	60	1-3/8	1.07	1.4
.75 HP	49	RNY-1530	80	1-7/16	1.07	1.4
1 HP	99	RNY-1520	40	1-7/16	2.07	2.1
1 HP	79	RNY-1520	50	1-7/16	2.07	2.1
1 HP	66	RNY-1520	60	1-7/16	2.07	2.1
1 HP	49	RNY-1531	80	1-7/16	2.07	2.1
1.5 HP	99	RNY-1520	40	1-7/16	2.07	1.4
1.5 HP	79	RNY-1520	50	1-7/16	2.07	1.4
1.5 HP	66	RNY-1520	60	1-7/16	2.07	1.4
1.5 HP	49	RNY-1531	80	1-7/16	2.07	1.4
2 HP	99	RNY-1531	40	1-7/16	3	1.5
2 HP	79	RNY-1531	50	1-7/16	3	1.5
2 HP	66	RNY-1531	60	1-7/16	3	1.5

Note: Speeds are based on 8 5/8" pulley diameter.



U. S. PAT. NO. 5,203,231;
U.S. PAT. NO. 5,375,479

Quiet, Compact and Maintenance-Free

- Offset, all-steel hypoid design transmits torque more efficiently for more torque per unit in a smaller, more compact size