



**BALDOR**  
A MEMBER OF THE ABB GROUP

Industry: Building Materials

Application: Bulk Handling waste/recycling conveyor

Products: Baldor•Dodge MTA II and Baldor•Dodge Telescoping Take-Ups

## DOCUMENTED SAVINGS

**BALDOR • DODGE**

**\$4,534**

**Share the Savings**

### The Challenge

The take-up assembly is located in the basement, making it difficult to reach and adjust. Also, the environment was wet and abrasive which caused premature wearing of the take-up and v-belts on the drive, resulting in unplanned downtime and labor.

### The Baldor Solution

Motion Industries and Baldor presented the Baldor•Dodge Motorized Torque Arm II™ (MTA) beltless gear reducer with C-Face Input Flange and the Baldor•Dodge Telescoping Take-ups

### The Savings

By using the Telescoping Take-up frame and integrating the Motorized Torque Arm on the conveyor head assembly the need to go into the basement other than for standard PM routine was eliminated. The unplanned downtime and labor costs was addressed with the upgrade. The customer also realized @\$235.00/yr in increased efficiency savings

\*\*\* See back page for details of analysis

### The Conclusion

By installing labor saving products that also address product needs in a wet and abrasive environment the customer realized more up time and less downtime on his waste/recycling conveyor.

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# The Step-by-Step Calculation

## DOCUSAVE

**Total Savings of: \$4,534**

### Baldor Solution

#### Step 1 –

For each product that was analyzed, Baldor asked the following questions:

- What was the amount of time required to perform each of the following activities?
  - Lock out conveyor drive and belt
  - Remove existing bearings
  - Select and purchase new take-ups and conveyors
  - Install new take-ups and gearing
- What was the number of employees required for each activity?
- What was the labor rate for each activity?
- What was the cost of parts for each activity?
- What was the replacement frequency of each component?
- What were the downtime costs (\$ per hour)?

#### Step 2 –

We calculated operating costs for the existing and proposed solutions using the following formulas:

Installation Cost = [(Time Spent on Activity/60 Minutes) x (# of Employees for Each Activity) x (Labor Rate) x (Replacement Frequency)]

Downtime Cost = [Downtime Cost (\$ per Hour) x (Time Spent on Activity) x (Replacement Frequency)]

#### RESULT:

<b>Existing or Alternative Total Operating Cost</b>	\$ 2,500.00
<b>Baldor Total Operating Cost</b>	<u>\$ 500.00</u>
<b>SAVINGS</b>	<b>\$2,000.00</b>

#### Step 3 –

We compared the purchase price of the existing and proposed solutions to illustrate an accurate assessment of overall costs.

#### RESULT:

<b>Existing or Alternative Purchase Price</b>	\$ 7,000.00
<b>Baldor Purchase Price</b>	<u>\$ 5,000.00</u>
<b>SAVINGS</b>	\$ 2,000.00

Step 4 – Labor and Energy Savings 534.00

Based on these calculations, we were able to discover and document a **TOTAL DOCUMENTED SAVINGS OF:**

**+**  
\$ 4,534.00



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