

Ball bearing inventory reduction with DODGE® GRIP TIGHT® adapter ball bearings

The challenge

Now more than ever industries need products and service solutions that can help them lower their current inventory and achieve documented cost savings. However, most facilities still take a traditional “read and replace” approach to parts replacement and often depend on multiple manufacturers and numerous bore sizes for their bearings.

The Dodge solution

Rather than inventory a complete line of traditional housings with bearings, you can now stock our DODGE brand of new GRIP TIGHT Adapter ball bearings with common housing units and bore-specific adapter assemblies. Completely modular in design, these bearings accept multiple adapters, which allow you to reduce your inventory risk and document savings with greater inventory flexibility. Note: a simplified example is shown below.

Reduce stock requirements from this:

Manufacturers	Quantity	Series	Bore size	Housing	Clamping device
P2B-SC-100	5	205	1”	Pillow Block	Setscrew
RAS-1	3	205	1”	Pillow Block	Eccentric Collar
NP16-T	4	205	1”	Pillow Block	Concentric Clamp Collar
F2B-DL-100	6	205	1”	Two-Bolt Flange	Concentric Clamp Collar
FYT-1-TF	4	205	1”	Two-Bolt Flange	Setscrew

To this:

GRIP TIGHT housing unit	Quantity	GRIP TIGHT adapter	Quantity
P2B-GT-05	8 Pieces	AN-GT-05-100	15 Pieces
F2B-GT-05	7 Pieces		

The savings

As a savings example, let’s say a potential customer stocks 100 SKU’s valued at \$12,597 in his storage area. This inventory consists of various bore sizes, housing designs, and shaft locking mechanisms. By converting this inventory to DODGE GRIP TIGHT Adapter ball bearings and by stocking the housing units and adapters separately, this customer could reduce the inventory by as much as 45%.* Rather than stock 100 SKU’s, the customer only needs to stock 77 SKU’s (43 housings units and 34 adapters) by rationalizing at the common component level.

* See back page for details of data analysis.



The conclusion

With DODGE GRIP TIGHT Adapter ball bearings, we can help you achieve inventory reductions ranging from 20% to 55%.

Total inventory reduction savings: \$5,699

Current inventory value \$12,597

DODGE GRIP TIGHT inventory \$6,898

Step 1

ABB asked for a survey of the customer's current planned on-hand inventory.

This survey included:

- each SKU (by manufacturer and manufacturer part number),
- the maximum planned on-hand quantity of each SKU, and
- the purchase price of each SKU.

Step 2

We took the completed inventory survey and performed the following actions:

- calculated the current maximum inventory value (based upon the survey data),
- interchanged all part numbers to the equivalent GRIP TIGHT Adapter ball bearing,
- broke down the GRIP TIGHT Adapter ball bearing assemblies into separate housing units and adapters,
- consolidated and rationalized the housing units,
- consolidated and rationalized the adapters,
- developed suggested stocking orders for each,
- calculated the value of the GRIP TIGHT inventory (housing units and adapters) and compared it to the total current inventory value.

Saving example:

	# SKU's stocked	Inventory value
<i>Current state</i>	100	\$12,597
GRIP TIGHT solution:		
> Housing units	43	\$5,186
> Adapters	34	\$1,711
Total GRIP TIGHT	77	\$6,898
Percent change (%)	-23%	-45%

Step 3

We supplied the interchange, the suggested stocking order, and an overall summary to the customer documenting the 45% savings.

Step 4

Based on these calculations, we were able to discover and document a

Total DCS (documented cost savings) of:

\$5,699

For more information please contact:

www.abb.com/mechanicalpowertransmission