Outstanding Products Manufactured to Meet your Needs

As an industry-leading producer of power transmission components of the highest quality, DODGE also has the capacity to manufacture special made-to-order products, tailored to fit the most exacting requirements and applications. Our experience and expertise in producing superior products make DODGE ideally suited to complete your made-to-order package. Whether your needs fall within the realm of power transmission components, or your operation has an entirely different focus, Dodge can manufacture the non-standard metal products your business needs to be successful.

Specific Made-to-Order Offerings

Power Transmission Components:
- Synchronous sprockets – HT, HTD, Dyna-Sync
- Crown pulleys
- Flat-Face pulleys
- Various hubs
- Large quantity orders can be assessed for alternate manufacturing possibilities such as sintered steel

DODGE Small to medium size MTO V-Drive sheaves Dimensional Capabilities:
- 2.5-inch through 15-inch outer diameter
- 15-inch overall Length (Size is based on weight and spindle bearings weight capacity.)

Information Requirements:
- Type of bore – TAPER-LOCK, QD, Bored-to-Size
- Size (diameter)
- Number and type (profile) of grooves
- Bore size
- Speed, if dynamic balancing is required

DODGE Small to medium size MTO Synchronous Sprockets Dimensional Capabilities:
- 15-inch outer diameter
- 225mm belt width (10 to 12 inches)
- Overall length depends greatly on counter bores and hubs.

Information Requirements:
- Type of sprocket – HT, HTD, DYNA-SYNC
- Type of bore – TAPER-LOCK, QD, Bored-to-Size
- Number of teeth
- Width
- Pitch
- Speed, if dynamic balancing is required

DODGE also offers large MTO synchronous sprockets up to 35 inches.

DODGE also offers large MTO sheaves up to 60 inches.
Lean Living:

Quincy Compressor Cuts Inventory Costs with DODGE Made-to-Order Sheaves

Quincy Compressor is well known in their industry as an innovative manufacturer of high-quality air compressors and vacuum pumps that are used around the world. It’s a reputation they have earned by successfully building and marketing these products since 1920 for applications such as air hoists and hand-held air tools.

Even as the compressor business has become more competitive and price sensitive, Quincy has continued to be successful. They have achieved this success not only by adopting Lean methods of manufacturing, but also by applying those same Lean principals to their supplier selection process.

For example, the company’s plant, located in Bay Minette, Alabama, operates as a totally Lean environment. Teams have improved processes throughout the entire value stream, including their process for selecting and working with suppliers. As a result, Quincy has discovered that they are most successful when they choose suppliers that understand and share the same Lean philosophy.

All the 10 HP to 50 HP compressors built at the plant are belt driven, which means that getting the right supplier for sheaves is critical to the plant’s success. Damon Cox, Quincy pull replenishment coordinator, explains that as part of the company’s Lean strategy, they don’t build product to sit on the shelf; instead, they build everything to order for specific customers. They wanted a sheave supplier that could do the same for them.

“We no longer wanted to carry shelves and shelves of sheave inventory,” says Cox. “Being Lean means that we needed to cut inventory to help us cut costs. But the challenge was finding a manufacturer who could make the exact sizes of sheaves we wanted and ship them to us only when we needed them.”

Cox says they tried this concept with one sheave manufacturer, but it didn’t work out because the manufacturer couldn’t meet Quincy’s on-time performance requirement. That’s when they turned to Baldor and selected DODGE made-to-order sheaves. Since making the transition, Cox says that sheave orders have not been late, a fact he credits, in part, to Baldor’s own understanding and implementation of Lean principles.

“We get a shipment of the sheaves we need once or twice a week, depending on our volume levels,” states Cox. “It’s been a real success because we can count on 100% on-time delivery. Now that I can count on getting the sheaves quickly, I no longer have to carry inventory, and we’re saving money.”

The move to DODGE made-to-order sheaves has also been welcomed by Quincy engineers. Instead of using standard off-the-shelf product, engineers can quickly get the specific sheave they need to match the correct speed to the motor, optimizing the performance of the compressor.

While on-time performance is critical to Quincy, the company has built its reputation on quality. They build compressor products to stay on the job without failure for decades, and for that reason, they won’t compromise on any of the components they use to manufacture their product.
Again, Quincy has not been disappointed by the DODGE product, and engineers have not had to sacrifice quality in exchange for quick delivery. In fact, Quincy Compressor engineering manager, Paul Blake, says he’s very satisfied with the quality of the DODGE sheaves. “They are made from ductile iron for strength, and they are balanced at the plant before they are shipped to us,” says Blake. “These sheaves are machined properly, have the right surface finish on the grooves, and have no sharp edges that can cause belt damage. All of these elements are critical to the longevity of our compressors.”

Blake is also pleased with the strong engineering support Quincy receives from Baldor engineers. He says it’s the kind of support that’s required to help Quincy remain competitive in the market. “The technical support we get up front is important,” explains Blake. “But we also need the support on the back side to help us as we develop new designs for our products. Baldor engineers are helping us solve problems and giving us recommendations on sizing and speed issues.”

It seems clear that Quincy Compressor views Baldor as more than just a supplier of components. Quincy Director of Marketing, James Jones, says the relationship goes well beyond a typical supplier relationship, explaining that the two companies fit very, very well together.

“We’re looking to the future, and we want to partner with a company that is innovative and is willing to work with us to continue to help us serve our customers,” explains Jones. “We have found that Baldor is not only the best supplier of the products we need, but also a company that has the most engineering capabilities. We truly look at Baldor as our value-added partner.”
Outside-the-Box MTO

• DODGE can fulfill your non-traditional made-to-order product needs
• For pieces which do not fall into the customary power transmission components mold, DODGE’s MTO production capabilities are ideally suited for manufacturing unique or unusual products.
• DODGE has the capability to manufacture pieces which are generally round in shape, weigh four hundred pounds or less, and are machined primarily through drilling and turning processes.

Some of Offerings Include:

Small-Groove Poly–V Sheaves

Special Pulleys

Round Clamping Mechanisms

Special Hubs

Special V-Groove Drives

Special V-Pulleys with Expanded Bores