

Belvac Production Machinery Technical Bulletin

Information for Customers Operating and Maintaining Belvac Machines

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Page 1 of 2 pages

595 and 795 Fixed Base Machinery Dodge Gearbox Conversion

This Technical Bulletin is intended to replace Technical Bulletin Issue 02, Volume 9 from February 2006 in order to provide the most up-to-date information available. Included are updated Dodge Reducer conversion kit part numbers and related data.

Belvac has partnered with Dodge, a division of Rockwell Automation, and provides only Dodge reducers for all new fixed base machinery as well as reducers sold as spares. Dodge has more than a century of industrial automation expertise, and offers diverse solutions for customers in the aggregate, mining, food, forest products, metal, HVAC, environmental, automotive, petrochemical, and unit handling industries. The Dodge Quantis Gear Reducer product line complements Belvac's 595 and 795 Fixed Base Machinery power and assembly requirements.

Belvac has created conversion kits to effectively convert existing machines to Dodge reducers after the end of the existing reducer's useful service. The basic kit generally consists of:

- 1) Replacement Gearbox
- 2) Drive Shaft (where required)
- 3) Mounting Hardware
- 4) Belt Guard
- 5) Replacement Reducer Input Shaft bushings (SK, SF, and E) item 2016

Each selection supplies replacement reducer shaft bushings to allow the customer's existing pulleys, belts, *etc.* to be reused in the new configuration. Due to the reducer ratio change a modification to the motor frequency via the VFD will be required to achieve the published speeds.

Data presented in this publication will assist in the selection of the appropriate Dodge replacement kit. Each kit was designed to operate within the following parameters:

- 1) Single Drive
- 2) Operate within speed range shown in the applicable chart
- 3) Maximum ambient temperature at machine does not exceed 100° F (37° C)

In the event machinery is operating outside any of these three parameters do not use any of the part numbers herein. Please contact Belvac Sales and Service and they will arrange proper kit selection.

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Model 595K Machines

Charts #1: Basic Kits with Speed Pulleys

595K OR 595 NON-K MACHINES CHART #1	DODGE REDUCER CONVERSION SELECTION TABLE			
	(OUTPUT = 1300 to 2400 CPM)			
BASE WELDMENT SIZE*	KIT NUMBER	MOTOR HORSEPOWER [KW] (Ref)	DODGE Reducer P/N (Ref)	DODGE Reducer Ratio (Ref)
1-3	2706342	5 – 15 [3.5 – 11]	C71026	11.64:1
4-8	2706343	15 – 30 [11 – 22]	C71022	12.56:1
9	2706344	40 [30]	C71022	12.56:1

*All stages should be counted, including those that are not currently operating a turret.

Model 795K Machines

Charts #2: Basic Kits with Speed Pulleys

795 FIXED BASE MACHINES CHART #2	DODGE REDUCER CONVERSION SELECTION TABLE			
	(OUTPUT = 1500 to 3000 CPM)			
BASE WELDMENT SIZE*	KIT NUMBER	MOTOR HORSEPOWER [KW] (Ref)	DODGE Reducer P/N (Ref)	DODGE Reducer Ratio (Ref)
1	2706372	10 [7.5]	C71026	11.64:1
4	2706385	40 [30]	C71027	9.16:1
7 (full shaft)	2706390	75 [55]	C71028	9.77:1
7 (gear coupled shaft)	2706393	75 [55]	C71028	9.77:1

*All stages should be counted, including those that are not currently operating a turret.

*Contact Belvac Sales or Service Representatives for additional information.
All Technical Bulletins may be viewed on Belvac's web site, www.belvac.com.*

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