

# Belvac Production Machinery Technical Bulletin

Information for Customers Operating and Maintaining Belvac Machines

ISSUE 4, VOLUME 11, MAY 2008

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## 595 Modular Series Dodge Gearbox Conversion

This Technical Bulletin is intended to replace Technical Bulletin Issue 01, Volume 9 from January 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 modular 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 Modular 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
- 3) Mounting Hardware
- 4) Belt Guard
- 5) Speed components for new ratio

Each selection is a complete kit including speed pulleys, bushings and replacement belt. These kits are designed to operate at the maximum speed listed for the selection and rely on a reduction in frequency via the VFD to achieve the lower published speeds. When selecting a kit please provide Belvac with the machine's motor frame size to allow the correct motor bushing to be included with the selection.

Data presented in this publication will assist in the selection of the appropriate Dodge replacement kit. Each kit was designed to specific parameters to ensure maximum flexibility for the majority of users. 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.

**Belvac Production Machinery, Inc.**

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## Model 595K Machines

### Charts #1 and #2: Basic Kits with Speed Pulleys

595K MODULAR MACHINES CHART #1	Applicable for <u>ALUMINUM</u> Can Systems				
	DODGE REDUCER CONVERSION SELECTION TABLE				
	(OUTPUT = 1300 to 2400 CPM)				
Number Of Turrets*	KIT NUMBER**		MOTOR HORSEPOWER [KW] (Ref)	DODGE Reducer P/N (Ref)	DODGE Reducer Ratio (Ref)
	60 Hz Machines	50 Hz Machines			
1-5	2755777 +BUSHING	2755776 +BUSHING	7.5 [5.5] – 20 [15]	C71047	7.68:1
6-11	2755778 +BUSHING	2755779 +BUSHING	25 [18.5] – 40 [30]	C71027	9.16:1
12-18	2755780 +BUSHING	2755781 +BUSHING	60 [45.5] – 75 [55]	C71028	9.77:1

\*Turret total should only include Neckers, Flangers, Reformers, Reprofilers and Light Testers.

\*\*Motor shaft diameter varies by frame size; thus these kits do not include a bushing for the motor pulley. Please provide Belvac with the machine's motor frame size to ensure correct part is included with each kit.

595K MODULAR MACHINES CHART #2	Applicable for <u>STEEL</u> Can Systems				
	DODGE REDUCER CONVERSION SELECTION TABLE				
	(OUTPUT = 1300 to 2400 CPM)				
Number Of Turrets*	KIT NUMBER**		MOTOR HORSEPOWER [KW] (Ref)	DODGE Reducer P/N (Ref)	DODGE Reducer Ratio (Ref)
	60 Hz Machines	50 Hz Machines			
1-5	2755777 +BUSHING	2755776 +BUSHING	7.5 [5.5] – 20 [15]	C71047	7.68:1
5-8	2755778 +BUSHING	2755779 +BUSHING	25 [18.5] – 40 [30]	C71027	9.16:1
10-11	2755792 +BUSHING	2755794 +BUSHING	50 [37]	C71028	9.77:1
12-14	2755780 +BUSHING	2755781 +BUSHING	60 [45]	C71028	9.77:1

\*Turret total should only include Neckers, Flangers, Reformers, Reprofilers and Light Testers.

\*\*Motor shaft diameter varies by frame size; thus these kits do not include a bushing for the motor pulley. Please provide Belvac with the machine's motor frame size to ensure correct part is included with each kit.

*Contact Belvac Sales or Service Representatives for additional information.  
All Technical Bulletins may be viewed on Belvac's web site, [www.belvac.com](http://www.belvac.com).*

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## Model 595SK Machines

### Charts #3 and #4: Basic Kits with Speed Pulleys

595SK MODULAR MACHINES CHART #3	Applicable for <u>ALUMINUM</u> Can Systems				
	DODGE REDUCER CONVERSION SELECTION TABLE				
	(OUTPUT = 2400 to 3000 CPM)				
Number Of Turrets*	KIT NUMBER**		MOTOR HORSEPOWER [KW] (Ref)	DODGE Reducer P/N (Ref)	DODGE Reducer Ratio (Ref)
	60 Hz Machines	50 Hz Machines			
1-3	2755795 +BUSHING	2755796 +BUSHING	7.5 [5.5] – 20 [15]	C71047	7.68:1
4-7	2755797 +BUSHING	2755798 +BUSHING	25 [18.5] – 40 [30]	C71047	7.68:1
8-9	2755815 +BUSHING	2755811 +BUSHING	50 [37]	C71044	7.10:1
10-12	2755827 +BUSHING	2755828 +BUSHING	60 [45] – 75 [55]	C71044	7.10:1
13-14	275829 +BUSHING	2755830 +BUSHING	75 [55]	C71040	6.43:1
15-18	2755816 +BUSHING	2755813 +BUSHING	100 [75]	C71040	6.43:1

\*Turret total should only include Neckers, Flangers, Reformers, Reprofilers and Light Testers.

\*\*Motor shaft diameter varies by frame size; thus these kits do not include a bushing for the motor pulley. Please provide Belvac with the machine's motor frame size to ensure correct part is included with each kit.

595SK MODULAR MACHINES CHART #4	Applicable for <u>STEEL</u> Can Systems				
	DODGE REDUCER CONVERSION SELECTION TABLE				
	(OUTPUT = 2400 to 3000 CPM)				
Number Of Turrets*	KIT NUMBER**		MOTOR HORSEPOWER [KW] (Ref)	DODGE Reducer P/N (Ref)	DODGE Reducer Ratio (Ref)
	60 Hz Machines	50 Hz Machines			
1-2	2755795 +BUSHING	2755796 +BUSHING	10 [7.5] – 20 [15]	C71047	7.68:1
3-5	2755797 +BUSHING	2755798 +BUSHING	25 [18.5] – 40 [30]	C71047	7.68:1
6	2755815 +BUSHING	2755811 +BUSHING	50 [37]	C71044	7.10:1
7-9	2755827 +BUSHING	2755828 +BUSHING	60 [45] – 75 [55]	C71044	7.10:1
10-16	2755816 +BUSHING	2755813 +BUSHING	100 [75]	C71040	6.43:1

\*Turret total should only include Neckers, Flangers, Reformers, Reprofilers and Light Testers.

\*\*Motor shaft diameter varies by frame size; thus these kits do not include a bushing for the motor pulley. Please provide Belvac with the machine's motor frame size to ensure correct part is included with each kit.

The new Dodge Quantis reducer has been standard on all new Belvac machinery shipments effective January 1, 2006.

*Contact Belvac Sales or Service Representatives for additional information.  
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