



Belvac Production Machinery Technical Bulletin

Information for Customers Operating & Maintaining Belvac Machines

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Gearbox Replacement, 595 Modular Machinery (SEW and NORD to SIPCO)

Belvac installed Nord brand gear reducers on all modular 595 equipment since 2000. Unfortunately, Nord has decided to no longer quote reducers to Belvac's rigid specifications. Rather than relax our requirements, Belvac will continue to supply only the highest quality components to ensure the effectiveness and reliability of our machinery.

Belvac has partnered with **SIPCO Mechanical Linkage Solutions**, a leading provider of power transmission components since 1984, to resolve replacement spare parts concerns. SIPCO designed a gearbox to directly mount to Belvac's 595 Modular Machinery. Sipco reducers have successfully been used as replacements for both SEW and the Nord gearboxes on Belvac's 595 Fixed Base machines (see *Belvac Technical Bulletin issue 06, volume 6, of April 2003*).

For spare parts in the field, Belvac has created a conversion kit to effectively replace SEW/NORD reducers after their useful service. This kit generally consists of:

- Replacement Gearbox
- Drive Shaft
- Mounting Hardware

Due to slight changes in the gear ratio, minor modifications to variable frequency drives will be necessary to maintain the original speed. *Refer to the chart for new reducer ratios.*

Depending on the present reduced input pulley size, a replacement bushing (item #2016) may be necessary to accommodate the new reducer input shaft diameter: this will be the responsibility of the customer as bushings are readily available. *Refer to the chart for input shaft diameter.*

It may be necessary for the customer at installation to modify and/or reposition the belt drive guard for proper fitup.

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Motor Horsepower		Reference Motor Size		SIPCO Reducer Kit Qty. = 1	SIPCO Reducer Part Number (Integral Part of Kit – For Reference Only)	Reducer Ratio	Input Shaft Diameter (inches)
HP	KW	NEMA	IEC				
7.5 – 10	5.5 – 7.5	213T– 215T	132S – 132M	2753170	C10034	10.9:1	1.375
15	11	254T	160M	2753171	C10034	10.9:1	1.375
20	15	256T	160L	2753172	C10034	10.9:1	1.375
25 – 30	18.5 – 22	284T– 286T	180M – 180L	2753173	C10036	10.3:1	1.625
40 – 50	30 – 37	324T– 326T	200M – 200L	2753174	C10037	10.8:1	1.625
60 – 75	45 – 56	364T – 365T	225S – 225M	2753175	C10033	10.5:1	1.625
100	75	405T	250M	2753176	C10033	10.5:1	1.625

All 595K and 595SK Necker Systems shipped after November 2003 will come standard with Sipco reducers.

Contact Belvac Sales or Service Representatives for ordering information.

All Belvac Technical Bulletins may be viewed on our web site, www.belvac.com.