



# Belvac Production Machinery Technical Bulletin

Information for Customers Operating & Maintaining Belvac Machines

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## Gearbox Replacement, 595 and 795 Fixed Base Machinery (SEW to SIPCO)

Belvac installed SEW Eurodrive brand gear reducers on all fixed base 595 and 795 equipment since 1988. These reducers have proven to be very reliable and robust. Eurodrive recently made another change in their product design with the internal bearing size. Unfortunately, this significantly changed the outside housing geometry losing the interchangeability with their obsoleted reducers. Currently SEW does not offer an interchangeable replacement for existing reducers!

Belvac has partnered with **SIPCO Mechanical Solutions**, a leading provider of power transmission components since 1984, to resolve replacement bearing concerns. SIPCO has designed a gearbox to directly mount to Belvac's Fixed Base Machinery. The new gearbox incorporates a mechanical Shrink Disk design positively securing the shaft to the gearbox. The Shrink Disk design, a feature requested by our customers to eliminate fretting, replaces the captured keyed vibration on shaft supplied with the SEW gearbox.

Belvac has created a replacement kit to effectively replace SEW 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 will be necessary to maintain the original speed. *Refer to the chart for speed ratio comparisons.*

Depending on the present input pulley size, a replacement bushing may be necessary to accommodate the new reducer input shaft diameter: this will be the responsibility of the customer. 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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<b>Original SEW Reducer</b>			<b>Fixed Base Size</b>	<b>Replacement Reducer</b>			<b>Required Conversion Kit</b>  <i>(Includes Reducer)</i>
<i>Item No.</i>	<i>Part No.</i>	<i>Gear Ratio</i>		<i>Part No.</i>	<i>Gear Ratio</i>	<i>Input Shaft Diameter</i>	
2023 2001	C28023, C28065	11.57:1 12.36:1	1,2,3 Stage	<b>C10003 SIPCO</b>	12.00:1	1.375"	Qty (1) <b>2705616</b>
2023	C28032 C28066	12.02:1 12.56:1	4, 5, 6, 8 Stage	<b>C10004 SIPCO</b>	12.50:1	1.625"	Qty (1) <b>2705617</b>
2023	C28032 C28066	12.02:1 12.56:1	7 Stage <b>(25Hp)</b>	<b>C10004 SIPCO</b>	12.50:1	1.625"	Qty (1) <b>2705618</b>
2023	C28057 C28068	11.65:1 11.99:1	9 Stage	<b>C10005 SIPCO</b>	11.90:1	1.625"	Qty (1) <b>2705619</b>

Contact Belvac Sales or Service Representatives for ordering information.

*All Technical Bulletins may be viewed on Belvac's web site, [www.belvac.com](http://www.belvac.com).*