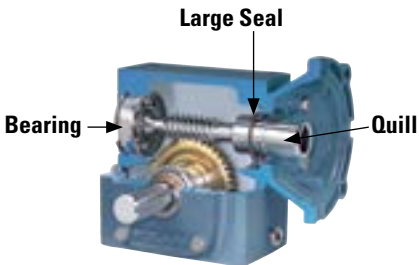
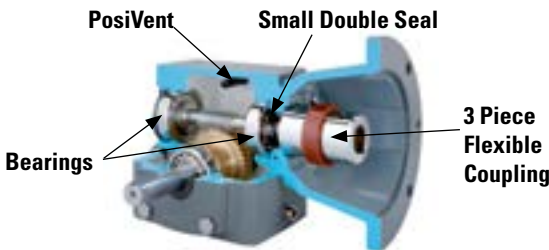


Boston Gear™ QC700 Series Worm Gear

PREMIUM SOLUTION FOR CONTINUOUS
PERFORMANCE IN DEMANDING INTRALOGISTICS
AND MATERIAL HANDLING ENVIRONMENTS



Features	Existing common Worm Gearboxes supplied by many integrators	Advantages of upgrading to the Boston Gear QC 700 Series
Bearings	3-bearing design; uses the motor bearings to support gearbox input shaft. If seal is damaged during the motor mounting process, premature leakage can occur.	4-bearing design; superior shaft support on both input and output shaft. The 4-bearing design keeps the high speed shaft steady during installation and during operation. The design can withstand heavier shock loads that may occur. No movement of input shaft and no premature leakage due to shaft wobble damaging the seals.
Venting	Industry standard is a simple vent to atmosphere. The simple vent permits contaminants to be sucked into the gearbox during cool down.	Unit is equipped with Boston Gear's PosiVent® internal pressure equalization system. PosiVent keeps pressure low in the gearbox and the unit is completely sealed keeping any contamination out of the gearbox. How? The PosiVent® diaphragm and seal system minimizes internal pressure build-up by expanding or collapsing based on pressure. Why? A sealed system keeps dirt and moisture out and thus increases life of the entire gearbox.
Flange	Common flange designs use pry slots for motor removal or access holes for couplings	The QC flange completely encloses the high speed seal. This prevents atmospheric dirt from accumulating under the seal lip and accelerating seal/shaft wear. Longer seal life is insured due to a cleaner operating environment.
Seals	Single input seal	Unit is provided with two input seals Why? Double sealing offers extra protection from wear on the high speed shaft extending the time for maintenance due to leakage. The smaller shaft diameter of the QC design creates less seal wear and therefore longer life due to a lower surface speed.
Input Style	Quill style hollow input is very common and is widely used in the distribution warehouse industry by integrators.	Coupling style input as used by Boston Gear in the QC700 series provides easy motor removal and replacement while minimizing space constraints. Most gearmotor failures (85%) are due to a motor failure and therefore a coupling style of gearbox facilitates quick and easy replacement.
Upgrading	Example of a three bearing worm gearbox. 	Upgrading to the backward-compatible Boston Gear QC series with the above built-in features will provide longer, trouble free operation and virtually no maintenance. The QC flange is typically 1-2 inches longer than a quill style gearbox and causes the motor to stick out farther. 

Which Gearbox is Right for your Application?



Quill Style



Quill Style with PosiVent® & double input seals



QC Coupling Style with PosiVent & Double input seals

Leak-Free Operation			
Works great for mounting Position #1 (As shown in picture).	✓	✓	✓
Works great for mounting Position #5 (Motor above gearbox).	✓	✓	✓
Works great for mounting Position #3 (worm under).		✓	✓
Works great for mounting Position #6 (Motor below gearbox).			✓
Contamination-Free Operation			
Works great for applications with periods of intense operation followed by long non-operating periods.		✓	✓
Works great for applications with atmospheric contamination (ie humidity, dust).		✓	✓
Works great for applications sensitive to contamination (ie food processing).		✓	✓
Ready to install			
Factory-sealed gearbox.		✓	✓
No need to determine where to install vent based on mounting position.		✓	✓
Easy motor removal after years of operation			
Works great for reversing load applications.			✓
Easy removal of motor from gearbox. No fretting corrosion between motor shaft and gearbox quill.			✓

BUILD YOUR 700 SERIES RIGHT ANGLE WORM GEARBOX - SINGLE REDUCTION PART NUMBER

QC	7	21	- 40	K	Z	T - B5 - G	1	-																																																		
QC	7 - 700 Series	Center Distance (inches)	Exact Gear Ratio Ratio to 1	Vent	Endcap or Fan (732-760 only)	Lubrication	Oil Seal	Mounting Positions																																																		
Input Shaft Style Blank - Solid Projecting Input Shaft F - Quill Style Motor Flange RF - Coupling Style Motor Flange QC - Quick Connect Motor Flange (close coupled)		10 - 1.00 13 - 1.33 15 - 1.54 18 - 1.75 21 - 2.06 24 - 2.38 26 - 2.62 30 - 3.00 32 - 3.25 38 - 3.75 52 - 5.13 60 - 6.00	5 25 7 30 7.5 40 10 50 12 60 15 80 20 100 Or Consult Factory for Availability	Blank - Standard Vent P - Pressure Vent (5 psi) Z - Posivent (sealed)	E - Endcap (standard) F - Fan	Blank - No lubrication K - Klubersynth UH1 6-460 S - Mobil SHC 634 X - Mobil 600W	Blank - Standard Seal T - Two Standard Input Seals C - High pressure washdown output seals and double input seals (stainless products only)	Blank - No Lubrication Supplied For Factory Prelubrication Indicate Mounting Position 1 - Standard Mounting (Worm over) 2-6 - Refer to Mounting Positions in Catalog P-1485-BG, pgs 18-19																																																		
Output Shaft Style Blank - Solid Output Shaft H - BostMount Hollow Output (setscrews both sides, bore size selectable) S - Hollow Output (setscrews one side, bore size fixed)																																																										
Reducer Material/Paint Blank - Cast Iron, Std. Gray paint BKC - Cast Iron, White BostKleen paint SBKC - Cast Iron, Stainless BostKleen paint SS - Stainless Steel material - no paint		Base/Mounting Attachment* Blank - No Base A - Horizontal base - Top Mount B - Horizontal base - Bottom Mount BRB - Riser Block - Top Mount C - Vertical High base - Right Mount D - Vertical Low base - Right Mount E - Vertical High base - Left Mount F - Vertical Low base - Left Mount R - BostMount Bracket - Right Mount L - BostMount Bracket - Left Mount M - Conveyor Flange Adptr - Right Mount N - Conveyor Flange Adptr - Left Mount V - Hollow Output Flange - Right Mount W - Hollow Output Flange - Left Mount X - Vertical Base - Rear Mount Y - Vertical Base - Front Mount *Projection of Base/Flange/Bracket assumes one is always looking into the input shaft in the #1 mounting position		NEMA Motor Mounting <table><thead><tr><th>BORE CODE</th><th>NEMA MOUNTING</th><th>INPUT BORE</th><th>KEYWAY</th></tr></thead><tbody><tr><td>B4</td><td>42CZ</td><td>.500"</td><td>1/8 x 1/16</td></tr><tr><td>B5</td><td>56C</td><td>.625</td><td>3/16 x 3/32</td></tr><tr><td>B7</td><td>140TC/180C</td><td>.875</td><td>3/16 x 3/32</td></tr><tr><td>B9</td><td>180TC/210C</td><td>1.125</td><td>1/4 x 1/8</td></tr><tr><td>B11</td><td>210TC/250UC</td><td>1.375</td><td>5/16 x 5/32</td></tr><tr><td>B13</td><td>250TC</td><td>1.625</td><td>3/8 x 3/16</td></tr></tbody></table> Blank Solid Input Shaft (No Flange)	BORE CODE	NEMA MOUNTING	INPUT BORE	KEYWAY	B4	42CZ	.500"	1/8 x 1/16	B5	56C	.625	3/16 x 3/32	B7	140TC/180C	.875	3/16 x 3/32	B9	180TC/210C	1.125	1/4 x 1/8	B11	210TC/250UC	1.375	5/16 x 5/32	B13	250TC	1.625	3/8 x 3/16	Output Shaft (When facing Input and worm on top) G - Carbon Steel Output Projection - Left H - Carbon Steel Double Output Projection J - Carbon Steel Output Projection - Right GS - Stainless Output Projection - Left HS - Stainless Double Output Projection JS - Stainless Output Projection - Right	BostMount Output Bore Code For H Series Only Specified in 1/16" increments. Example: 1 1/4" = P20 <table><tbody><tr><td>5/8 - P10</td><td>1-1/2 - P24</td></tr><tr><td>3/4 - P12</td><td>1-5/8 - P26</td></tr><tr><td>7/8 - P14</td><td>1-11/16 - P27</td></tr><tr><td>15/16 - P15</td><td>1-3/4 - P28</td></tr><tr><td>1 - P16</td><td>1-7/8 - P30</td></tr><tr><td>1-1/16 - P17</td><td>1-15/16 - P31</td></tr><tr><td>1-1/8 - P18</td><td>2 - P32</td></tr><tr><td>1-3/16 - P19</td><td>2-1/8 - P34</td></tr><tr><td>1-1/4 - P20</td><td>2-3/16 - P35</td></tr><tr><td>1-5/16 - P21</td><td>2-1/4 - P36</td></tr><tr><td>1-3/8 - P22</td><td>2-7/16 - P39</td></tr><tr><td>1-7/16 - P23</td><td>3-7/16 - P55</td></tr></tbody></table> See catalog for availability by center distance. Consult Factory for Metric Bores	5/8 - P10	1-1/2 - P24	3/4 - P12	1-5/8 - P26	7/8 - P14	1-11/16 - P27	15/16 - P15	1-3/4 - P28	1 - P16	1-7/8 - P30	1-1/16 - P17	1-15/16 - P31	1-1/8 - P18	2 - P32	1-3/16 - P19	2-1/8 - P34	1-1/4 - P20	2-3/16 - P35	1-5/16 - P21	2-1/4 - P36	1-3/8 - P22	2-7/16 - P39	1-7/16 - P23	3-7/16 - P55
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BOSTON GEAR™

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