Many maintenance engineers and industrial OEM’s choose couplings to connect their motors and gearboxes together. The advantages can be many, but the disadvantages can quickly add up. That’s because a slot must be cut in the gearbox flange to allow an Allen wrench to align the coupling... the same slot that lets in caustic washdown solution, water, and other particles, also makes it challenging to see what you need when connecting the motor.

That’s why Boston Gear developed the QC 700 Series, featuring a completely self-aligning coupling that eliminates the need for a slot in the flange and allows for quick motor and reducer assembly. Fretting corrosion is eliminated, which means your motor comes off when you want it to – with hand tools, not a jackhammer. The QC 700 Series is truly the first quick connecting NEMA coupling-mount speed reducer in its class.

Reducer Express
We guarantee same day shipment by air if we receive your order by 12pm EST or we guarantee next business day shipment by air if your order is received after 12pm EST... or the air freight is free!
• Rugged housing of fine-grained, gear-quality cast iron provides maximum strength and durability. Greater rigidity and one-piece construction ensure precise alignment of the worm and gear. This housing construction also provides superior resistance to caustic washdown solutions, plus high heat dissipation and reduced noise level. Pipe plugs allow easy fill, level and drain in any mounting position.

• Large oil reservoir provides highly efficient heat dissipation and lubrication for longer operating life.

• Super-finished oil seal diameters on both input and output shafts provide extended seal life.

• High pressure angle on worm provides greater operating efficiency.

• Integral input worm and shaft design made from high-strength case-hardened alloy steel. Reducer sizes 710 through 730 have pre-lubricant ball bearings; 732 through 760 have tapered roller bearings. Double lip oil seals are standard.

• High strength steel output shaft assures capacity for high torque and overhung loads.

• High-strength bronze worm gear is straddle mounted between heavy-duty tapered roller bearings to increase thrust and overhung load capacities, sizes 713-760.

• Unique patent pending coupling design eliminates fretting corrosion and allows for blind assembly of NEMA motors.

• Double bearing input design on all QC 700 sizes along with optional double seals.

• The elimination of the coupling alignment hole ensures that debris and bacteria will not collect on this reducer.

• This smooth, BISSC® approved clean motor flange dramatically improves any washdown application.

• Super-finished oil seal diameters on both input and output shafts provide extended seal life.

• High strength steel output shaft assures capacity for high torque and overhung loads.

• Rugged housing of fine-grained, gear-quality cast iron provides maximum strength and durability. Greater rigidity and one-piece construction ensure precise alignment of the worm and gear. This housing construction also provides superior resistance to caustic washdown solutions, plus high heat dissipation and reduced noise level. Pipe plugs allow easy fill, level and drain in any mounting position.
### Dimensions

<table>
<thead>
<tr>
<th>QC Compared To RF</th>
<th>J-NEMA Mounting</th>
<th>Design Space Savings</th>
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<tbody>
<tr>
<td>CD/Reduction</td>
<td>Single</td>
<td>Double</td>
</tr>
<tr>
<td>710</td>
<td>W713</td>
<td>42CZ</td>
</tr>
<tr>
<td></td>
<td>W718</td>
<td>56C</td>
</tr>
<tr>
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<td>W721</td>
<td>56C</td>
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<tr>
<td></td>
<td>W726</td>
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<td>W730</td>
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Dimensions in inches
700 Series Single Reduction Catalog Number Explanation

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<tr>
<th>HQC</th>
<th>7</th>
<th>32</th>
<th>R - 30</th>
<th>Z</th>
<th>F</th>
<th>P -</th>
<th>B7</th>
<th>H</th>
<th>3 -</th>
<th>P20</th>
</tr>
</thead>
</table>

**STYLE**
- Blank - Projecting I/P & O/P shafts (No flange)
- H - Projecting I/P, BostMount hollow O/P shaft (No flange)
- S - Projecting I/P, hollow O/P shaft (No flange)
- F - Flanged reducer (Quill type), projecting O/P shaft
- HF - Flanged reducer (Quill type), BostMount hollow O/P shaft
- SF - Flanged reducer (Quill type), hollow O/P shaft
- QC - Flanged reducer (Coupling type), projecting O/P shaft
- HQC - Flanged reducer (Coupling type), BostMount hollow O/P shaft
- RF - Flanged reducer (Coupling type), Projecting O/P shaft
- SSF - Stainless flanged reducer (Quill type) projecting O/P shaft
- SSF* - Stainless flanged reducer (Quill type) BostMount hollow O/P shaft
- C Prefix - Cast iron flange and base
  (*SSF/SSF* has sizes 718, 721, 726 only)

**CENTER DISTANCE**
- (inches)
  - 10 - 1.00
  - 13 - 1.33
  - 16 - 1.75
  - 21 - 2.06
  - 24 - 2.38
  - 30 - 3.00
  - 32 - 3.25
  - 38 - 3.75
  - 52 - 5.16
  - 60 - 6.00

**REDUCTION RATIO TO 1**
- 5
- 10
- 15
- 20
- 25
- 30
- 50
- 60

**FAN**
- (732-760 sizes only)
  - Blank - No fan
  - F - Fan kit
  - E - End cap available 732 & 736 only, when no fan is used.

**LUBRICATION**
- Z - Posivent® (factory filled with Klubersynth UH1 6-460)
  - Blank - No Lube
  - K - Klubersynth UH1 6-460

**H SERIES OUTPUT BORE CODE**
- For H700 Series only, specified in 1/16” increments. See Worm Gear Drives Catalog for complete offering.
  - Example: 1 1/4” = P20

**OUTPUT SHAFT ASSEMBLY**
- (When facing input)
  - G* - O/P Projection – Left
  - H* - Double O/P Projection
  - J* - O/P Projection – Right

**OUTPUT SHAFT ASSEMBLY**
- (When facing input)
  - K - Klubersynth UH1 6-460
  - * Add “S” after letter for Stainless Steel Shaft (ex. GS, HS, JS)

**700 Series Double Reduction Catalog Number Explanation**

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<th>26</th>
<th>B- 100</th>
<th>Z</th>
<th>F</th>
<th>P -</th>
<th>B7</th>
<th>H</th>
<th>3 -</th>
<th>P20</th>
</tr>
</thead>
</table>

**STYLE**
- WA - Parallel shafts, projecting I/P & O/P
- HWA - Parallel shafts, projecting I/P, BostMount Hollow O/P
- SWA - Parallel shafts, projecting I/P, hollow O/P
- WC - Right Angle shafts, projecting I/P & O/P
- WRC - Right Angle shafts, projecting I/P, BostMount hollow output shaft
- SWIC - Right Angle shafts, projecting I/P, hollow O/P
- FWA - Parallel shafts, Quill type I/P, projecting O/P
- HFWA - Parallel shafts, Quill type I/P, BostMount Hollow O/P
- SFWA - Parallel shafts, Quill type I/P, hollow O/P
- FWC - Right Angle shafts, Quill type I/P, projecting O/P
- HPWC - Right Angle shafts, Quill type input, BostMount hollow output shaft
- SPWC - Right Angle shafts, Quill type I/P hollow O/P
- QCWA- Parallel shafts, Coupling type I/P, projecting O/P
- HQCWA - Parallel shafts, Coupling type I/P, BostMount Hollow O/P
- QCWC - Right Angle shafts, Coupling type I/P, projecting O/P
- HGCWC - Right Angle shafts, Coupling type I/P, BostMount hollow output shaft
- C Prefix - Cast iron flange and base

**CENTER DISTANCE**
- (inches)
  - 13 - 1.33
  - 16 - 1.75
  - 21 - 2.06
  - 26 - 2.62
  - 30 - 3.00
  - 32 - 3.25
  - 38 - 3.75
  - 52 - 5.16
  - 60 - 6.00

**REDUCTION RATIO TO 1**
- 100 - 1200
- 150 - 1800
- 200 - 2400
- 300 - 3600
- 400 - 4800
- 600 - 7200
- 900

**FAN**
- (732-760 sizes only)
  - Blank - No fan
  - F - Fan kit
  - E - End cap available 732 & 736 only, when no fan is used.

**LUBRICATION**
- Z - Posivent® (factory filled with Klubersynth UH1 6-460)
  - Blank - No Lube
  - K - Klubersynth UH1 6-460

**H SERIES OUTPUT BORE CODE**
- For H700 Series only, specified in 1/16” increments. See Worm Gear Drives Catalog for complete offering.
  - Example: 1 1/4” = P20

**OUTPUT SHAFT ASSEMBLY**
- (When facing input)
  - G* - O/P Projection – Left
  - H* - Double O/P Projection
  - J* - O/P Projection – Right

**OUTPUT SHAFT ASSEMBLY**
- (When facing input)
  - K - Klubersynth UH1 6-460
  - * Add “S” after letter for Stainless Steel Shaft (ex. GS, HS, JS)