The speed reducer shall be a single reduction worm gear reducer incorporating two input configurations - a quill style for direct attachment of electric motors and a motor adapter style input that employs a three piece coupling to connect electric motors to the reducer. These input configurations shall be available in both solid and hollow output shaft designs. The reducer shall be assembled and quality tested in the United States of America.

Gearing
Worm gear geometry shall be highly optimized for rating and efficiency and precision manufactured with a single enveloping design.

The gear set shall consist of a hardened steel worm shaft. The worm gear shall be a fine grain, copper-tin bronze - specially alloyed for superior durability and wear resistance. All units shall have the worm gear set properly centered during assembly to produce an optimum contact pattern.

Gear design and power transmission ratings conform to globally accepted rating standards.

Castings
The gear case and bearing housing shall be manufactured from 300 series stainless steel. The top of the reducer housing shall be rounded with sloping surfaces to prevent liquids from pooling. The surface texture of the casting shall not exceed 125 micro-inches. The optional bolt-on base, motor flange and other accessories shall also be manufactured from 300 series stainless steel.

The reducer shall be sealed with no direct passage from the oil sump to the ambient atmosphere - (a closed system). This ventless design ensures no contamination of lubricant from external environment.

Lubrication
The standard lubrication shall be a synthetic type that is suitable for USDA Class H1 environments. The manufacturer must state in writing that the lubrication shall require no periodic changing. Alternate synthetic lubricants made from the same base material as the standard shall be available to accommodate extreme temperature applications.

All reducers shall be factory filled by the manufacturer with the proper volume of H1 synthetic lubricant so that the reducer can be applied in any approved mounting position without modifications to the reducer.

Bearings
Output shafts shall incorporate tapered roller bearings shimmed for proper running clearances and be designed for maximizing over hung load rating.

Sealing
Oil seals shall be made of premium materials. Seals made using Nitrile or Fluoroelastomer materials are not acceptable. Output seals shall be of two-piece design and capable of withstanding 1,450 PSI liquid sprays without allowing liquid entry into the gear reducer.

Oil seals shall have a minimum temperature range of -40° to 300°F (-40° to 149°C).

All sealing-joints, except fill plug, shall be o-rings. Reducers shall incorporate no silicone rubber sealant of any kind.

Hardware
All fasteners shall be non-cavity stainless steel and have locking provisions. Motor mounting bolts and input/output keys shall be provided. No plastic plugs or fasteners shall be permitted.

Nameplate information shall be etched directly into the reducer gearcase housing. Removable nameplates shall not be permitted.

External Conditions
When properly service factored to account for the thermal limitations of the reducer, the standard construction shall be suitable for use in ambient temperatures from -10°F to +165°F.

The thermal ratings listed on ratings pages are based on the gear unit continuously operating in an ambient temperature of 75°F. For the ambient condition above 75°F, the derating factor needs to be applied to the thermal rating, or contact Dodge application engineering.

Severe washdown operating environments shall be addressed with a stainless steel gear case incorporating stainless steel hardware and stainless steel output shaft.

Reducer must be tested and certified to meet IPX9K for protection from high pressure washdowns.
### Tigear-2 Ultra Kleen Reducers With Quill Input - Size 17

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<th>Thermal Input HP</th>
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*Note:* Washdown accessories available in accessories section.

### Example
Part number SS17Q30L56 is a stainless steel size-17 reducer with quill input, 30:1 ratio, left hand output shaft and a 56C motor adapter.

Part number SS17Q30L56 is the same reducer except with 3-piece coupled input style.

### Note
Washdown accessories available in accessories section.

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3-piece coupled input style is also available for Tigear-2 stainless steel reducers.

For 3-piece coupled input, use same part numbers as above except replace the letter "Q" with the new letter "A".

---
### Washdown Ultra Kleen Reducers With Quill Input - Size 20

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3-piece coupled input style is also available for Tigear-2 stainless steel reducers. For 3-piece coupled input, use same part numbers as above except replace the letter "Q" with the new letter "A".

Example: Part number SS20030L56 is a stainless steel size-20 reducer with quill input, 30:1 ratio, left hand output shaft and a 56C motor adapter. Part number SS203A30L56 is the same reducer except with 3-piece coupled input style.

Note: Washdown accessories available in accessories section.
### Tigear-2 Ultra Kleen Reducers With Quill Input - Size 23

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3-piece coupled input style is also available for Tigear-2 stainless steel reducers. For 3-piece coupled input, use same part numbers as above except replace the letter “Q” with the new letter “A”.

**Example:** Part number SS23Q30L56 is a stainless steel size-23 reducer with quill input, 30:1 ratio, left hand output shaft and a 56C motor adapter. Part number SS23A30L56 is the same reducer except with 3-piece coupled input style.

**Note:** Washdown accessories available in accessories section.

The output bore for hollow reducers listed above is 1-7/16”. We also offer a 1-1/4” output bore. To order, add “SD104” to the end of the part number. **Example:** SS23Q30H56SD104 or SS23A30H56SD104
## Tigear-2 Ultra Kleen Reducers With Quill Input - Size 26

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3-piece coupled input style is also available for Tigear-2 stainless steel reducers. For 3-piece coupled input, use same part numbers as above except replace the letter “Q” with the new letter “A”. Example: Part number SS26030L56 is a stainless steel size-26 reducer with quill input, 30:1 ratio, left hand output shaft and a 56C motor adapter. Part number SS26A30L56 is the same reducer except with 3-piece coupled input style.

Note: Washdown accessories available in accessories section. The output bore for hollow reducers listed above is 1-7/16”. We also offer a 1-1/4” output bore. To order, add “SD104” to the end of the part number. Example: SS26030H56SD104 or SS26A30H56SD104.
### Tigear-2 Ultra Kleen Reducers With Quill Input - Size 30

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<th>Rating Data 1750 Input RPM</th>
<th>Part Number 56C</th>
<th>Part Number 140TC</th>
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3-piece coupled input style is also available for Tigear-2 stainless steel reducers. For 3-piece coupled input, use same part numbers as above except replace the letter “Q” with the new letter “A”.

Example: Part number SS30Q30L56 is a stainless steel size-30 reducer with quill input, 30:1 ratio, left hand output shaft and a 56C motor adapter. Part number SS30A30L56 is the same reducer except with 3-piece coupled input style.

Note: Washdown accessories available in accessories section.
The output bore for hollow reducers listed above is 1-15/16”. We also offer a 1-1/4” output bore. To order, add “SD104” to the end of the part number.

Example: SS30Q30H56SD104 or SS30A30H56SD104
Quill Input Dimensions

**QUILL INPUT WITH SOLID OUTPUT**

- Quill Input
- Solid Output
- Dimensions
- Tapped Holes
- (4) Plcs.

**QUILL INPUT WITH HOLLOW OUTPUT**

- Quill Input
- Hollow Output
- Dimensions
- Tapped Holes
- (4) Plcs.
## Quill Input Dimensions

### Quill Input With Solid Output

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<th>D</th>
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<th>G</th>
<th>I</th>
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Note: 1-1/4" output bore optional available. To order, add “SD104” to the end of the part number.  
Example: SS30Q30H56SD104
3-Piece Coupled Input Dimensions

3-PIECE COUPLED INPUT WITH SOLID OUTPUT

3-PIECE COUPLED INPUT WITH HOLLOW OUTPUT

W TAPPED HOLES (4) PLCS.

W TAPPED HOLES (4) PLCS.
### 3-Piece Coupled Input With Solid Output

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>I</th>
<th>J</th>
<th>56C/140TC</th>
<th>180TC</th>
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<th>180TC</th>
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<td>10.92</td>
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<td>2.24</td>
<td>6.35</td>
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<td>6.12</td>
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<td>2.50</td>
<td>7.38</td>
<td>2.50</td>
<td>5.00</td>
<td>6.76</td>
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<th>O</th>
<th>P</th>
<th>Q</th>
<th>U</th>
<th>Tap Size</th>
<th>Depth</th>
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</thead>
<tbody>
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<td>2.88</td>
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<td>4.00</td>
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<td>7/16-14</td>
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### 3-Piece Coupled Input With Hollow Output

<table>
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<tr>
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<th>L</th>
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<th>O</th>
<th>P</th>
<th>Q</th>
<th>U</th>
<th>Tap Size</th>
<th>Depth</th>
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<tbody>
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<td>0.88</td>
</tr>
</tbody>
</table>

**Note:** 1-1/4" output bore optional available. To order, add “SD104” to the end of the part number. Example: SS30A30H56SD104