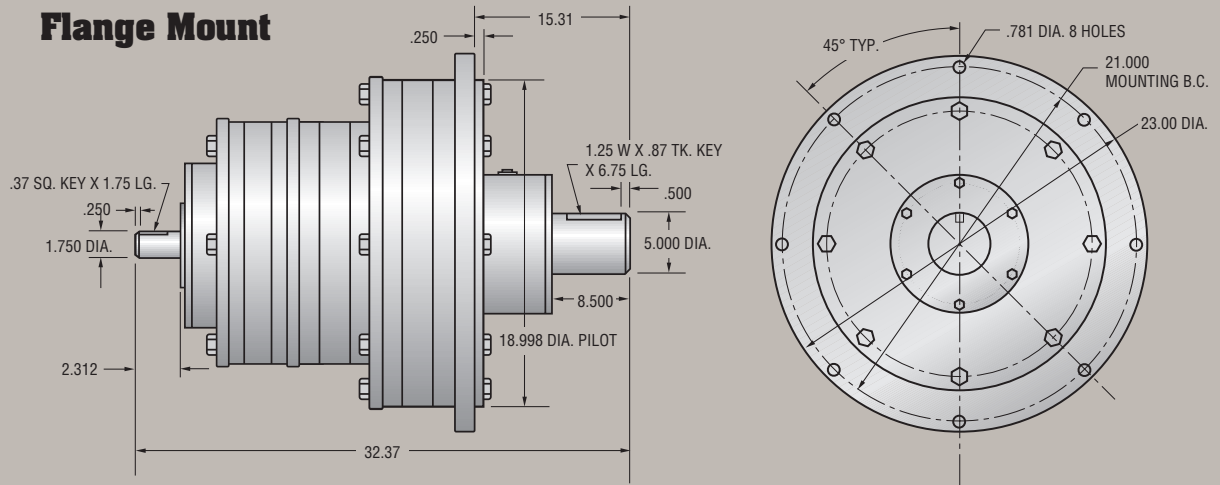


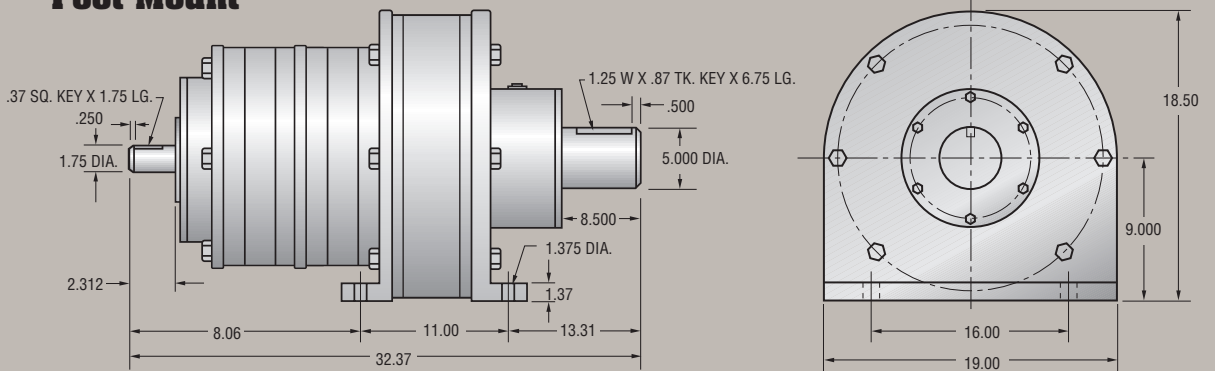
# Model 90-110-150S

## Triple Reduction Planetary Gear Reducer

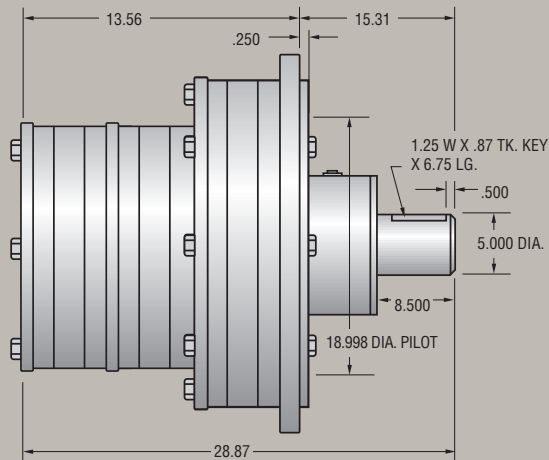
### Flange Mount



### Foot Mount



### Flange or Foot Mount w/SAE or NEMA input



#### NEMA Electric Motor Direct Mount

"C" face direct couple of motor to speed reducer. No need for coupling or special motor mounts.

#### SAE Hydraulic Motor Direct Mount

2 bolt or 4 bolt direct couple of hydraulic motor to speed reducer. No need for coupling or special motor mounts.



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**Gear Corporation  
of America**

- Planetary speed reducers
- High-speed increasers
- Custom design geared products

*"The Problem Solver"*

# Model 90-110-150S

## Triple Reduction Planetary Gear Reducer

| Planetary Assembly | Ratios | OUTPUT HORSE POWER RATINGS (Adjusted for Thermal Efficiencies) |       |       |       |       |       |       |
|--------------------|--------|--|-------|-------|-------|-------|-------|-------|
|                    |        | INPUT R.P.M.   |       |       |       |       |       |       |
|                    |        | 100  | 580   | 720   | 870   | 1170  | 1430  | 1750  |
| EEE                | 27.00  | 11.07  | 37.91 | 44.10 | 50.35 | 61.95 | 71.29 | 82.12 |
| EEA                | 31.50  | 9.04   | 30.93 | 35.99 | 41.08 | 50.55 | 58.18 | 67.01 |
| EEB                | 36.00  | 9.42   | 32.25 | 37.52 | 42.84 | 52.71 | 60.66 | 69.87 |
| EAA                | 36.75  | 8.11   | 27.77 | 32.31 | 36.88 | 45.38 | 52.23 | 60.16 |
| CEE                | 39.00  | 8.56   | 29.30 | 34.09 | 38.92 | 47.89 | 55.11 | 63.48 |
| BEA                | 42.00  | 7.39   | 25.29 | 29.42 | 33.59 | 41.33 | 47.57 | 54.79 |
| AAA                | 42.87  | 7.28   | 24.93 | 29.00 | 33.11 | 40.74 | 46.88 | 54.00 |
| ECA                | 45.50  | 6.99   | 23.91 | 27.82 | 31.76 | 39.08 | 44.97 | 51.80 |
| EBB                | 48.00  | 7.46   | 26.37 | 30.68 | 35.02 | 43.10 | 49.60 | 57.13 |
| AAB                | 49.00  | 7.31   | 25.99 | 30.24 | 34.52 | 42.48 | 48.89 | 56.31 |
| ECB                | 52.00  | 6.89   | 24.93 | 29.01 | 33.12 | 40.75 | 48.89 | 54.01 |
| CAA                | 53.08  | 6.27   | 21.47 | 24.97 | 28.51 | 35.08 | 40.37 | 46.50 |
| DEE                | 54.00  | 6.82   | 23.33 | 27.15 | 30.99 | 38.13 | 43.89 | 50.55 |
| BBA                | 56.00  | 6.04   | 20.68 | 24.06 | 27.46 | 33.79 | 38.89 | 44.79 |
| CCE                | 56.33  | 6.62   | 22.65 | 26.36 | 30.09 | 37.02 | 42.61 | 49.07 |
| CBA                | 60.67  | 5.71   | 19.55 | 22.75 | 25.97 | 31.95 | 36.77 | 42.35 |
| DEA                | 63.00  | 5.56   | 19.01 | 22.15 | 25.29 | 31.12 | 35.81 | 41.25 |
| BBB                | 64.00  | 5.61   | 21.56 | 25.08 | 28.64 | 35.24 | 40.55 | 46.71 |
| CCA                | 65.72  | 5.40   | 18.49 | 21.59 | 24.55 | 30.21 | 34.77 | 40.05 |
| CBB                | 69.33  | 5.19   | 20.39 | 23.72 | 27.08 | 33.32 | 38.34 | 44.16 |
| DEB                | 72.00  | 4.99   | 19.85 | 23.10 | 26.37 | 32.45 | 37.34 | 43.01 |
| DAA                | 73.50  | 4.99   | 17.09 | 19.89 | 22.70 | 27.94 | 32.15 | 37.03 |
| CCB                | 75.11  | 4.79   | 19.28 | 22.42 | 25.60 | 31.50 | 36.25 | 41.76 |
| DCE                | 78.00  | 5.27   | 18.04 | 20.99 | 23.96 | 29.48 | 33.93 | 39.08 |
| CCC                | 81.37  | 3.01   | 13.52 | 15.73 | 17.96 | 22.10 | 25.43 | 29.30 |
| DBA                | 84.00  | 4.55   | 15.57 | 18.11 | 20.68 | 25.44 | 29.28 | 33.73 |
| DCA                | 91.00  | 4.30   | 14.72 | 17.13 | 19.55 | 24.06 | 27.68 | 31.89 |
| DBB                | 96.00  | 3.76   | 16.23 | 18.39 | 21.56 | 26.53 | 30.53 | 35.17 |
| DCB                | 104.00 | 3.46   | 15.35 | 17.86 | 20.39 | 25.08 | 28.87 | 33.25 |
| DDE                | 108.00 | 4.20   | 14.36 | 16.71 | 19.08 | 23.47 | 27.01 | 31.12 |
| DCC                | 112.66 | 2.18   | 10.77 | 12.53 | 14.30 | 17.60 | 20.25 | 23.33 |
| DDA                | 126.00 | 3.42   | 11.72 | 13.64 | 15.57 | 19.16 | 22.04 | 25.39 |
| DDB                | 144.00 | 2.51   | 12.22 | 14.22 | 16.23 | 19.97 | 22.99 | 26.48 |
| DDC                | 156.00 | 1.58   | 8.57  | 9.98  | 11.39 | 14.01 | 16.13 | 18.58 |
| DDD                | 216.00 | 1.35   | 6.56  | 7.63  | 8.71  | 10.72 | 12.34 | 14.21 |

Ratings based upon uniform steady and moderate shock loading. See load factor chart for details.

| OUTPUT SHAFT RADIAL (overhung) LOAD CAPACITIES (at output r.p.m.) |        |        |        |        |        |        |       |       |
|---|--------|--------|--------|--------|--------|--------|-------|-------|
| R.P.M.  | 10     | 20     | 30     | 50     | 100    | 200    | 300   | 500   |
| Radial Capacity (lbs.)  | 22,500 | 18,000 | 16,000 | 14,000 | 11,000 | 10,000 | 9,000 | 7,500 |

| OUTPUT SHAFT THRUST LOAD CAPACITIES (at output r.p.m.) |        |        |        |        |        |        |        |       |
|--|--------|--------|--------|--------|--------|--------|--------|-------|
| R.P.M.   | 10     | 20     | 30     | 50     | 100    | 200    | 300    | 500   |
| Radial Capacity (lbs.)                                 | 29,511 | 24,037 | 21,282 | 18,254 | 14,832 | 12,041 | 10,668 | 9,150 |

**OUTPUT SHAFT MAXIMUM CONTINUOUS TORQUE CAPACITY:** 150,119 lb./inches  
**OUTPUT SHAFT INTERMITTENT TORQUE CAPACITY:** 300,238 lb./inches  
**WEIGHT:** 750 lbs.  
**RATING SYSTEM:** All Ratings Based Upon American Gear Manufacturers' Association Standards



*"The Problem Solver"*



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