

# STRONG

## & COMPACT



*Spartan™ up to two-thirds lighter and one-third smaller than comparable cast iron units!*

## **Spartan™** WORM GEAR DRIVES

What do you require to triumph over your competition? If your application requires a **compact** gear drive that delivers rugged performance without weighing you down or emptying your pockets, the **HUB CITY** Spartan™ is ready to help you take on the challenge.

**Modular Design Flexibility - 0.183 thru 7.5 H.P. - Immediate Availability**

**High Tensile Strength Aluminum Alloy Housing - High Load Capacity Oversized Bearings**

**Motor/Gear Drive Package Incentives Available**



# Spartan™ WORM GEAR DRIVES

Choose Your Winning Combination...

## Choose a Single or Double Reduction Unit



Single Reduction

Prefix: AL



Double Reduction Worm-Worm

Prefix: ALWW



Double Reduction Helical-Worm

Prefix: ALHW

## Choose a Model Type and Output Style



Shaft Input, Shaft Output

Model Suffix: 1



Shaft Input, Hollow Bore

Model Suffix: 2



C-Face Input, Shaft Output

Model Suffix: 4



C-Face Input, Hollow Bore

Model Suffix: 5

For Single Reduction Model Types 1 & 4 Choose style A: Double Output, B: Left Output or C: Right Output  
For Double Reduction styles, refer to **HUB CITY** Product Catalog.

## Choose a Size and a Gear Ratio

| Model                                       | Center Distance <sup>1</sup> |    | Output Dia. <sup>3</sup> | Input Dia. <sup>4</sup> | Motor Frame <sup>5</sup> | Ratio Range Available      |      |         |                            |      |         | Weight (lbs.) |
|---|------------------------------|----|--------------------------|-------------------------|--------------------------|----------------------------|------|---------|----------------------------|------|---------|---------------|
|   | Inch                         | MM |                          |                         |                          | Minimum Ratio <sup>2</sup> |      |         | Maximum Ratio <sup>2</sup> |      |         |               |
| <b>Single Reduction Worm Models</b>         |                              |    |                          |                         |                          |                            |      | (in.lb) |                            |      | (in.lb) |               |
| AL45*                                       | 1.77                         | 45 | 0.750                    | 0.625                   | 56C                      | 7                          | 1.0  | 224     | 60                         | 0.33 | 442     | 7             |
| AL50*                                       | 1.97                         | 50 | 1.000                    | 0.625                   | 56C                      | 7                          | 2.0  | 454     | 60                         | 0.33 | 449     | 9             |
| AL63*                                       | 2.48                         | 63 | 1.125                    | 0.750                   | 56C-140TC                | 7                          | 3.0  | 688     | 67                         | 0.50 | 794     | 16            |
| AL85*                                       | 3.35                         | 85 | 1.500                    | 0.875                   | 56C-180TC                | 7                          | 7.5  | 1739    | 67                         | 1.50 | 2458    | 40            |
| <b>Double Reduction Worm-Worm Models</b>    |                              |    |                          |                         |                          |                            |      |         |                            |      |         |               |
| ALWW450*                                    | 1.77                         | 45 | .750                     | 0.625                   | 56C                      | 147                        | 0.19 | 504     | 2220                       | 0.03 | 504     | 13            |
| ALWW500*                                    | 1.97                         | 50 | 1.000                    | 0.625                   | 56C                      | 252                        | 0.19 | 799     | 2220                       | 0.05 | 757     | 14            |
| ALWW630*                                    | 2.48                         | 63 | 1.125                    | 0.625                   | 56C                      | 252                        | 0.46 | 1935    | 2160                       | 0.10 | 1935    | 22            |
| ALWW850*                                    | 3.35                         | 85 | 1.500                    | 0.625                   | 56C                      | 140                        | 0.92 | 2690    | 1288                       | 0.27 | 3784    | 47            |
| <b>Double Reduction Helical-Worm Models</b> |                              |    |                          |                         |                          |                            |      |         |                            |      |         |               |
| ALHW450*                                    | 1.77                         | 45 | .750                     | 0.625                   | 56C-140TC                | 30.1                       | 0.52 | 420     | 258.0                      | 0.10 | 420     | 9             |
| ALHW500*                                    | 1.97                         | 50 | 1.000                    | 0.625                   | 56C-140TC                | 30.1                       | 0.72 | 589     | 258.0                      | 0.14 | 589     | 11            |
| ALHW630*                                    | 2.48                         | 63 | 1.125                    | 0.625                   | 56C-140TC                | 29.8                       | 1.75 | 1387    | 309.5                      | 0.26 | 1480    | 20            |
| ALHW850*                                    | 3.35                         | 85 | 1.500                    | 0.625                   | 56C-140TC                | 59.7                       | 2.22 | 3195    | 422.1                      | 0.37 | 2943    | 47            |

\* Specify Model Type 1, 2, 4 or 5 - See photos above

- 1 Center distance is the dimension between center lines of input and output shafts
- 2 Mechanical Rating (1.0 Service Factor) @ 1750 rpm input speed. Refer to Product Catalog for full list of available ratios.

- 3 Output Diameter applies to both shaft output and hollow bore diameter
- 4 Applies to Model Types 1 and 2 only (shaft input versions)
- 5 Applies to Model Types 2 and 5 only (C-face input versions)

Choose from available accessories: Horizontal Base Kit, Torque Arm Kit, Side Mounting Flange Kit, Long Side Mounting Kit and Shaft Cover Kit. Refer to **HUB CITY** Product Catalog for details.



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