

PRODUCT OVERVIEW

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FULL STAINLESS STEEL SERVO PLANETARY

Environmental considerations in machine design often forces the selection of certain materials for the correct compatibility. Full stainless gearboxes are available from Apex Dynamics - built to stock for common stainless motors. Based on the torque dense, helical AE series, the AES/AERS version adds the replacement of the input motor adapters, changing the material from anodized aluminum to stainless steel.

Built for washdown environments, food handling, above food line, beverage - dairy, soft drink, beer, pharmaceutical, corrosive environments. The AE-SS series features high torque capacity helical gearing, smooth, quiet operation, low backlash, high radial load capacity and continuous/high cycle rate capability.

The AES/AERS series also includes Apex's patented input bearing technology that perfectly centers the pinion, or sun gear, directly in the center of the planet gears. This ensures equal load sharing on each of the planet gears, driving better accuracy, smoother quieter operation, lower torque ripple and lower transmission error, while increasing longevity and decreasing wear.

The range of stainless gearboxes that are available match existing stainless motor designs that are frequently used in applications, and have comparatively low average cost increase (~50%) over standard product.



Full Stainless AES Series Planetary Gearbox

Stainless Steel Planetary for Extra Corrosion Resistance

- **Stainless Output Shaft, housings, motor adapter and corrosion resistant hardware.**
- **Food grade compatible lubricant - NYE670F. Nontoxic and safe for food contact. Suitable for use on machinery and instrumentation where incidental contact with food is a possibility. NSF H-1 approved.**
- **IP 66 sealing. Double lipped, spring loaded Viton radial shaft seals at input and output. Buna o-ring sealing between all mating housings.**
- **Cylindrical design to eliminate flat surfaces.**
- **Motor adapter components stocked for common existing stainless motors available on the market.**



AERS Full Stainless Right Angle Gearbox

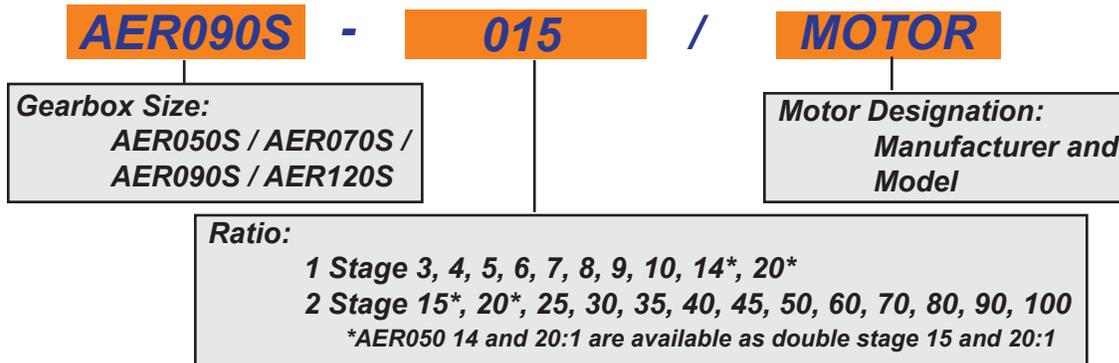
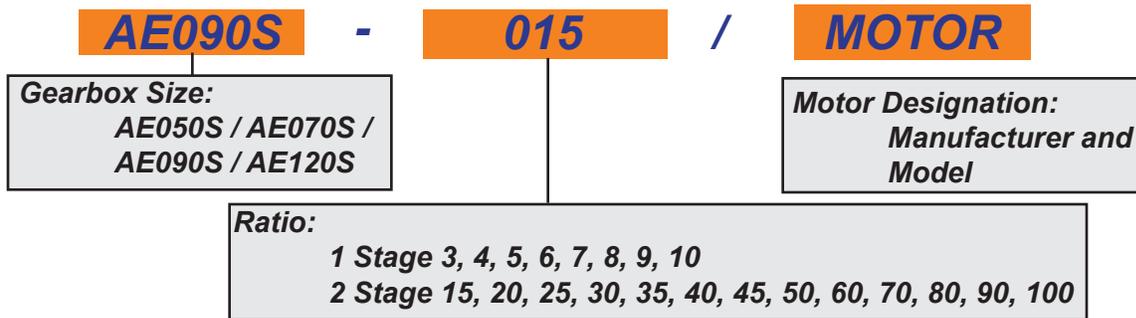


APEX DYNAMICS

CONSTRUCTION

<i>Right Angle Housing</i>	<i>304 Stainless</i>
<i>Intermediate Housing</i>	<i>304 Stainless</i>
<i>Motor Adapter</i>	<i>304 Stainless</i>
<i>Output Shaft</i>	<i>416 Stainless</i>
<i>Output Housing</i>	<i>416 Stainless</i>
<i>Sealing</i>	<i>O-Rings between housings / IP66 output shaft seal</i>
<i>Lubrication</i>	<i>Nye 670 Food Grade Grease</i>
<i>Hardware</i>	<i>304 Stainless</i>

ORDERING CODE



SPECIFICATIONS

All stainless steel units carry the same specification as the standard product. Please refer to the AE/AER series for specifications.

APPLICATIONS

*Washdown
Raw Food Processing
Dairy
Beverage
Meat, Fish and Poultry Processing*

*Hygenic
Cosmetic
Pharmaceutical
Caustic
Corrosive*