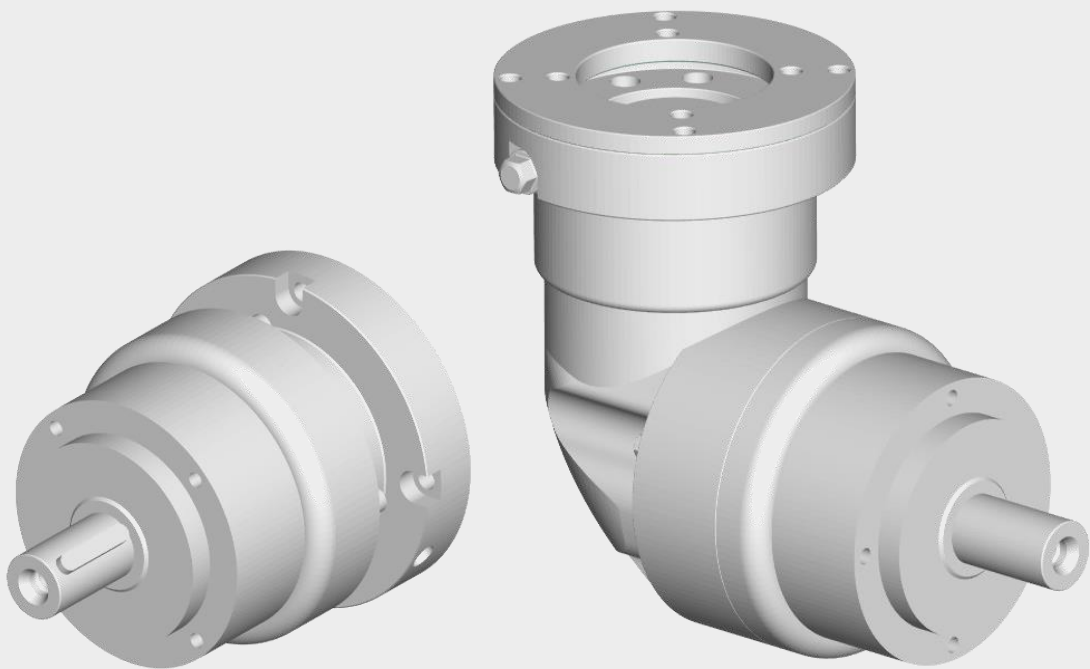




**APEX DYNAMICS**

**HIGH PRECISION  
PLANETARY GEARBOX**

**AES / AERS Series**



**Full stainless steel**



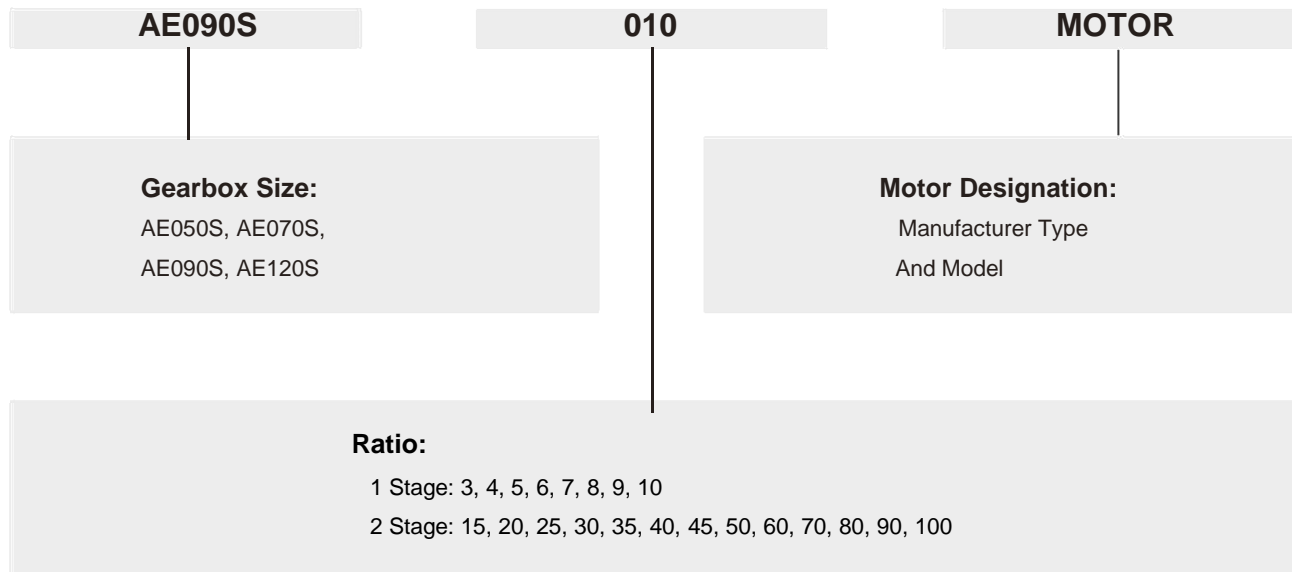
**Apex Dynamics, Inc.** is the world's most productive manufacturer of servomotor drive planetary gearboxes for precision automation machinery. From our 800,000+ square foot ISO 9001:2008 manufacturing facility, based in Taichung, Taiwan, we manufacture to stock using the newest precision machine tools and quality test and inspection equipment. Complete focus on quality and precision allows us to produce our high quality gearheads at precision levels down to less than 1 arc minute (1/60 th of a degree), with consistency and high reliability.

Based on more than twenty years of accumulated manufacturing and marketing experience, plus the highest level of technical production capabilities, Apex Dynamics, Inc. designs and builds technically advanced, high speed, low backlash servo application planetary gearboxes. Our Break through patented technology (over 6 patents), provides the customer with the optimum high precision helical reducer at a reasonable price. We are continuously improving processes, finding proper and effective methods to provide customers new solutions for difficult applications, and developing new products.

The primary focus in daily operation is quality. We pride ourselves on our dedication to quality; our duty - is customer satisfaction.

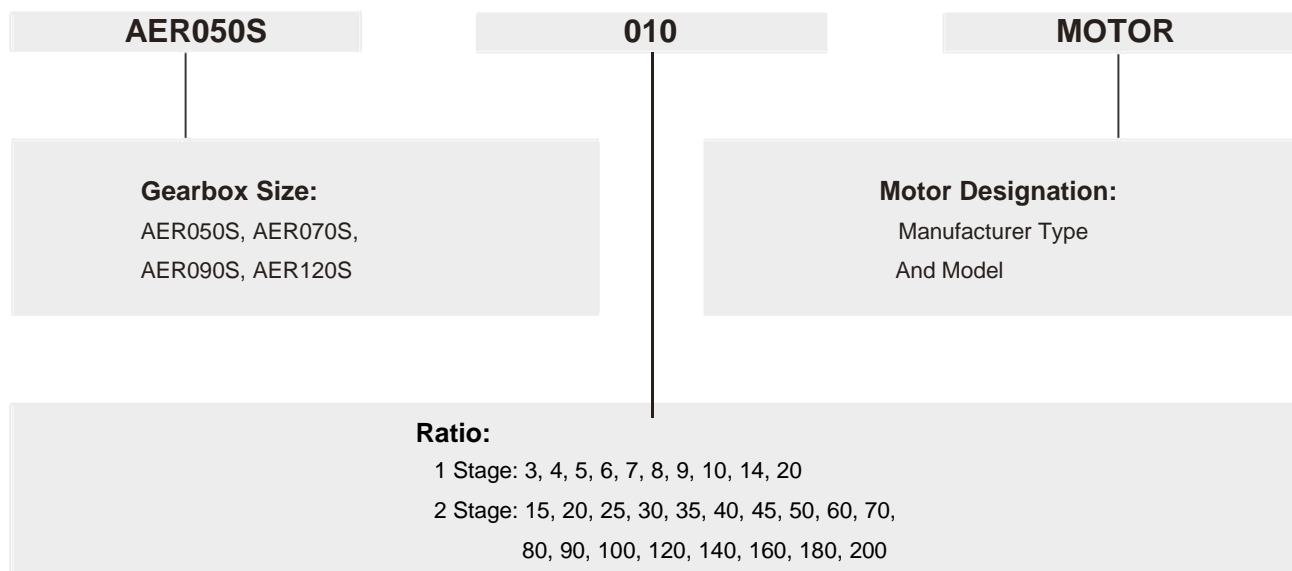


# AES Series



**Ordering Example: AE090S-010-FG / KOLLMORGEN AKMH41C-CN**

# AERS Series



**Ordering Example: AER090S-010-FG / KOLLMORGEN AKMH41C-CN**

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# Specifications / AES Series

## Gearbox Performance

Model No.		Stage	Ratio <sup>A</sup>	AE050S	AE070S	AE090S	AE120S
Nominal output torque $T_{2N}$	Nm	1	3	20	55	130	208
			4	19	50	140	290
			5	22	60	160	330
			6	20	55	150	310
			7	19	50	140	300
			8	17	45	120	260
			9	14	40	100	230
			10	14	40	100	230
		2	15	20	55	130	208
			20	19	50	140	290
			25	22	60	160	330
			30	20	55	150	310
			35	19	50	140	300
			40	17	45	120	260
			45	14	40	100	230
			50	22	60	160	330
			60	20	55	150	310
			70	19	50	140	300
80	17	45	120	260			
90	14	40	100	230			
100	14	40	100	230			
Emergency Stop Torque $T_{2NOT}^B$	Nm	1,2	3~100	3 times of nominal output torque			
Nominal input speed $n_{1N}$	rpm	1,2	3~100	5,000	5,000	4,000	4,000
Max. input speed $n_{1B}$	rpm	1,2	3~100	10,000	10,000	8,000	8,000
Backlash	arcmin	1	3~10	≤ 8	≤ 8	≤ 8	≤ 8
		2	15~100	≤ 12	≤ 12	≤ 12	≤ 12
Torsional rigidity	Nm/arcmin	1,2	3~100	3	8	14	25
Max. Radial Load $F_{2rB}^C$	N	1,2	3~100	702	1,377	2,985	6,100
Max. Axial Load $F_{2aB}^C$	N	1,2	3~100	390	765	1,625	3,350
Service Life <sup>D</sup>	hr	1,2	3~100	20,000			
Efficiency $\eta$	%	1	3~10	≥ 97%			
		2	15~100	≥ 94%			
Weight	kg	1	3~10	0.6	1.4	3.3	6.9
		2	15~100	0.9	1.6	4.7	8.7
Operating temp	°C	1,2	3~100	-10 °C ~ 90 °C			
Lubrication				Synthetic lubrication oils / Foodgrade			
Degree of gearbox protection		1,2	3~100	IP65			
Mounting position		1,2	3~100	all directions			
Noise ( $n_1=3000\text{rpm}, i=10, \text{No load}$ ) <sup>E</sup>	dB (A)	1,2	3~100	≤ 56	≤ 58	≤ 60	≤ 63

## Gearbox Inertia

Model No.		Stage	Ratio <sup>A</sup>	AE050S	AE070S	AE090S	AE120S
Mass moments of inertia $J_1$	kg · cm <sup>2</sup>	1	3	0.03	0.16	0.61	3.25
			4	0.03	0.14	0.48	2.74
			5	0.03	0.13	0.47	2.71
			6	0.03	0.13	0.45	2.65
			7	0.03	0.13	0.45	2.62
			8	0.03	0.13	0.44	2.58
			9	0.03	0.13	0.44	2.57
			10	0.03	0.13	0.44	2.57
		2	15	0.03	0.03	0.13	0.47
			20	0.03	0.03	0.13	0.47
			25	0.03	0.03	0.13	0.47
			30	0.03	0.03	0.13	0.47
			35	0.03	0.03	0.13	0.47
			40	0.03	0.03	0.13	0.47
			45	0.03	0.03	0.13	0.47
			50	0.03	0.03	0.13	0.44
			60	0.03	0.03	0.13	0.44
			70	0.03	0.03	0.13	0.44
80	0.03	0.03	0.13	0.44			
90	0.03	0.03	0.13	0.44			
100	0.03	0.03	0.13	0.44			

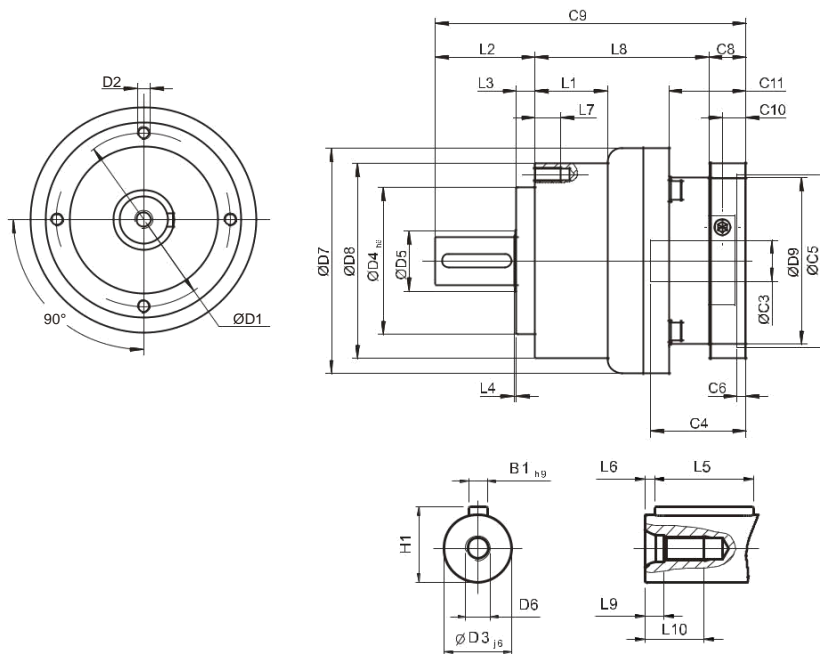
A. Ratio ( $i=N_{in} / N_{out}$ )B. Max. acceleration torque  $T_{2B} = 60\%$  of  $T_{2NOT}$ 

C. Applied to the output shaft center at 100 rpm

D. For continuous operation, the service life time is less than 10,000 hrs

E. These values are measured by gearbox with ratio = 10 (1-stage) or ratio = 100 (2-stage) at 3,000 rpm no loading. By less smaller than 10, the noise value would be 3~5 dB higher

# Dimensions (1-stage, Ratio $i=3\sim 10$ ) / AES Series



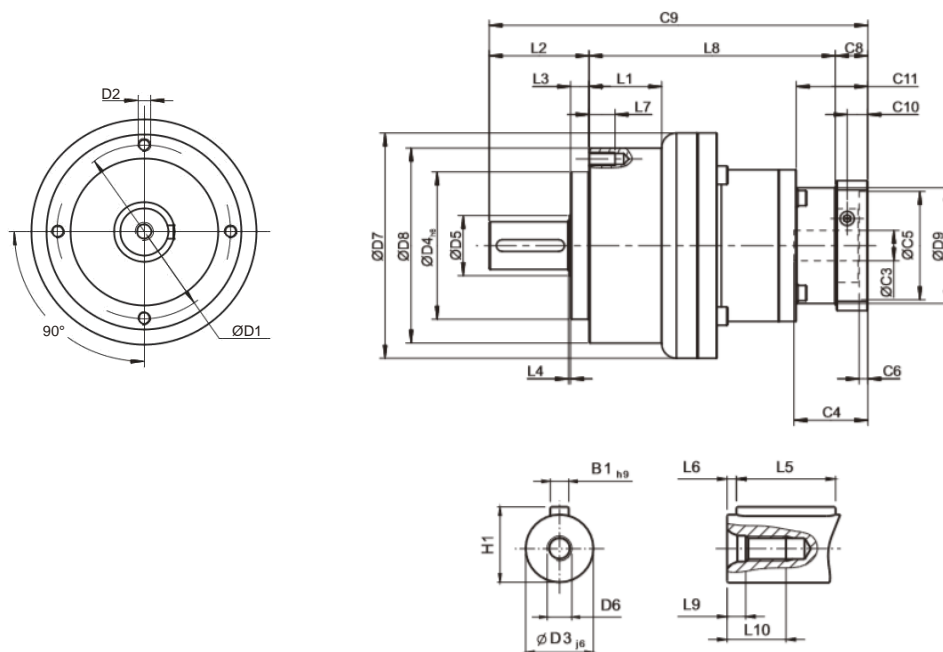
[unit: mm]

Dimension	AE050S	AE070S	AE090S	AE120S
D1	44	62	80	108
D2	M4 x 0.7P	M5 x 0.8P	M6 x 1P	M8 x 1.25P
D3 <sub>i6</sub>	12	16	22	32
D4 <sub>h6</sub>	35	52	68	90
D5	22	22	30	40
D6	M4 x 0.7P	M5 x 0.8P	M8 x 1.25P	M12 x 1.75P
D7	53	70	104	130
D8	50	70	90	120
D9	45.5	53.4	77	102
L1	--	--	33.5	38
L2	24.5	36	46	70
L3	4	6.5	8.5	17.5
L4	1	1	1	1.5
L5	14	25	32	40
L6	2	2	3	5
L7	8	10	12	16
L8	47	62	80.5	97
L9	4.5	4.8	7.2	10
L10	10	12.5	19	28
C3 <sup>1</sup>	$\leq 11 / \leq 12^2$	$\leq 14 / \leq 16^2$	$\leq 19 / \leq 24^2$	$\leq 32$
B1 <sub>h9</sub>	4	5	6	10
H1	14	18	24.5	35

1. C1~C11 are motor specific dimensions (metric std shown). Refer to [www.apexdyna.com](http://www.apexdyna.com) and Design Tool to view your specific motor mounting system.

2. AE050S ratio 5, 10 offers C3  $\leq 12$  option; AE070S ratio 5, 10 offers C3  $\leq 16$  option.

# Dimensions (2-stage, Ratio $i=15\sim 100$ ) / AES Series



[unit: mm]

Dimension	AE050S	AE070S	AE090S	AE120S
D1	44	62	80	108
D2	M4 x 0.7P	M5 x 0.8P	M6 x 1P	M8 x 1.25P
D3 <sub>i6</sub>	12	16	22	32
D4 <sub>h6</sub>	35	52	68	90
D5	22	22	30	40
D6	M4 x 0.7P	M5 x 0.8P	M8 x 1.25P	M12 x 1.75P
D7	53	70	104	130
D8	50	70	90	120
D9	45.5	53.4	77	102
L1	--	--	33.5	38
L2	24.5	36	46	70
L3	4	6.5	8.5	17.5
L4	1	1	1	1.5
L5	14	25	32	40
L6	2	2	3	5
L7	8	10	12	16
L8	74	87.5	113.5	138.5
L9	4.5	4.8	7.2	10
L10	10	12.5	19	28
C3 <sup>1</sup>	≤ 11 / ≤ 12	≤ 11 / ≤ 12	≤ 14 / ≤ 15.875 / ≤ 16	≤ 19 / ≤ 24
B1 <sub>h9</sub>	4	5	6	10
H1	14	18	24.5	35

3. C1-C11 are motor specific dimensions (metric std shown). Refer to [www.apexdyna.com](http://www.apexdyna.com) and Design Tool to view your specific motor mounting system

# Specifications /AERS Series

## Gearbox Performance

Model No.		Stage	Ratio <sup>A</sup>	AER050S	AER070S	AER090S	AER120S
Nominal output torque $T_{2N}$	Nm	1	3	9	36	90	195
			4	12	48	120	260
			5	15	60	150	325
			6	18	55	150	310
			7	19	50	140	300
			8	17	45	120	260
			9	14	40	100	230
			10	14	60	150	325
			14	-	42	140	300
		20	-	40	100	230	
		2	15	14	-	-	-
			20	14	-	-	-
			25	15	60	150	325
			30	20	55	150	310
			35	19	50	140	300
			40	17	45	120	260
			45	14	40	100	230
			50	14	60	100	230
			60	20	55	150	310
			70	19	50	140	300
			80	17	45	120	260
			90	14	40	100	230
			100	14	40	100	230
			120	-	-	150	310
140	-		-	140	300		
160	-	-	120	260			
180	-	-	100	230			
200	-	-	100	230			
Emergency Stop Torque $T_{2NOT}$ <sup>B</sup>	Nm	1,2	3~200	3 times of nominal output torque			
Nominal input speed $n_{1N}$	rpm	1,2	3~200	5,000	5,000	4,000	4,000
Max. input speed $n_{1B}$	rpm	1,2	3~200	10,000	10,000	10,000	8,000
Backlash	arcmin	1	3~20	≤ 10	≤ 10	≤ 10	≤ 10
		2	25~200	≤ 14	≤ 14	≤ 14	≤ 14
Torsional rigidity	Nm/arcmin	1,2	3~200	3	7	14	25
Max. Radial Load $F_{2rB}$ <sup>C</sup>	N	1,2	3~200	702	1,377	2,985	6,100
Max. Axial Load $F_{2aB}$ <sup>C</sup>	N	1,2	3~200	390	765	1,625	3,350
Service Life <sup>D</sup>	hr	1,2	3~200	20,000 *			
Efficiency $\eta$	%	1	3~20	≥ 95%			
		2	25~200	≥ 92%			
Weight	kg	1	3~20	1.0	2.1	5.8	11.2
		2	25~200	1.3	2.0	4.6	11.1
Operating temp	°C	1,2	3~200	-10 °C ~ 90 °C			
Lubrication				Synthetic lubrication oils / Foodgrade			
Degree of gearbox protection		1,2	3~200	IP65			
Mounting position		1,2	3~200	all directions			
Noise ( $n_1=3000\text{rpm}, i=10, \text{No load}$ ) <sup>E</sup>	dB (A)	1,2	3~200	≤ 61	≤ 63	≤ 65	≤ 68

## Gearbox Inertia

Model No.		Stage	Ratio <sup>A</sup>	AER050S	AER070S	AER090S	AER120S
Mass Moments of Inertia $J_1$	kg · cm <sup>2</sup>	1	3~10	0.09	0.35	2.25	6.84
			14	-	0.07	1.87	6.25
			20	-	0.07	1.87	6.25
		2	15	0.09	-	-	-
			20	0.09	-	-	-
			25~100	0.09	0.09	0.35	2.25
			120~200	-	-	0.31	1.87

A. Ratio ( $i=N_{in} / N_{out}$ )

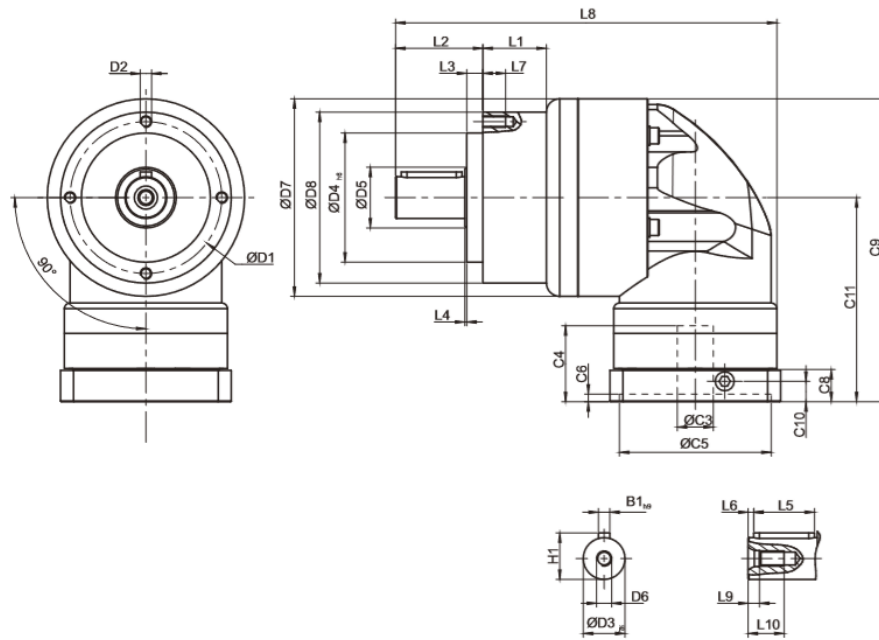
B. Max. acceleration torque  $T_{2B} = 60\%$  of  $T_{2NOT}$

C. Applied to the output shaft center at 100 rpm

D. For continuous operation, the service life time is less than 10,000 hrs

E. These values are measured by gearbox with ratio = 10 (1-stage) or ratio = 100 (2-stage) at 3,000 rpm no loading. By less smaller than 10, the noise value would be 3~5 dB higher

# Dimensions (1-stage, Ratio $i=3\sim 20$ ) / AERS Series

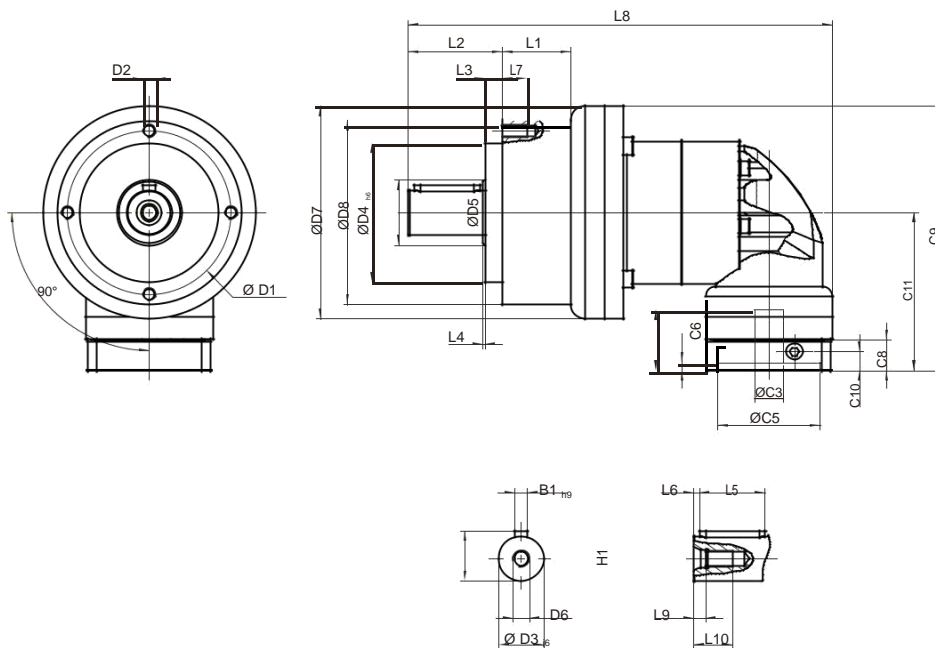


Dimension	AER050S	AER070S	AER090S	AER120S
D1	44	62	80	108
D2	M4 x 0.7P	M5 x 0.8P	M6 x 1P	M8 x 1.25P
D3 <sub>j6</sub>	12	16	22	32
D4 <sub>H6</sub>	35	52	68	90
D5	22	22	30	40
D6	M4 x 0.7P	M5 x 0.8P	M8 x 1.25P	M12 x 1.75P
D7	53	70	104	130
D8	50	70	90	120
L1	--	--	33.5	38
L2	24.5	36	46	70
L3	4	6.5	8.5	17.5
L4	1	1	1	1.5
L5	14	25	32	40
L6	2	2	3	5
L7	8	10	12	16
L8	115.5	146	201	252
L9	4.5	4.8	7.2	10
L10	10	12.5	19	28
C3 <sup>1</sup>	$\leq 11 / \leq 12$	$\leq 14 / \leq 16$	$\leq 19 / \leq 24$	$\leq 32$
B1 <sub>H9</sub>	4	5	6	10
H1	14	18	24.5	35

1. C1~C11 are motor specific dimensions (metric std shown). Refer to [www.apexdyna.com](http://www.apexdyna.com) and Design Tool to view your specific motor mounting system.



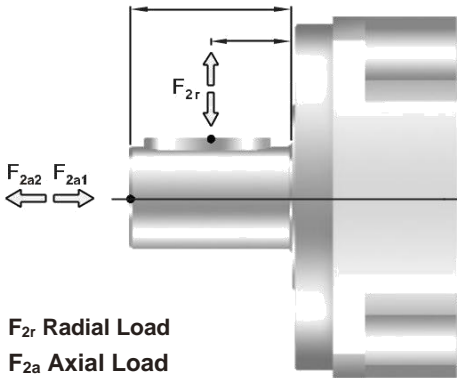
# Dimensions (2-stage, Ratio $i=15\sim 200$ ) / AERS Series



Dimension	AER050S	AER070S	AER090S	AER120S
D1	44	62	80	108
D2	M4 x 0.7P	M5 x 0.8P	M6 x 1P	M8 x 1.25P
D3 <sub>j6</sub>	12	16	22	32
D4 <sub>h6</sub>	35	52	68	90
D5	22	22	30	40
D6	M4 x 0.7P	M5 x 0.8P	M8 x 1.25P	M12 x 1.75P
D7	53	70	104	130
D8	50	70	90	120
L1	--	--	33.5	38
L2	24.5	36	46	70
L3	4	6.5	8.5	17.5
L4	1	1	1	1.5
L5	14	25	32	40
L6	2	2	3	5
L7	8	10	12	16
L8	142.5	167.5	207.5	283
L9	4.5	4.8	7.2	10
L10	10	12.5	19	28
C3 <sup>2</sup>	$\leq 11 / \leq 12$	$\leq 11 / \leq 12$	$\leq 14 / \leq 15.875 / \leq 16$	$\leq 19 / \leq 24$
B1 <sub>h9</sub>	4	5	6	10
H1	14	18	24.5	35

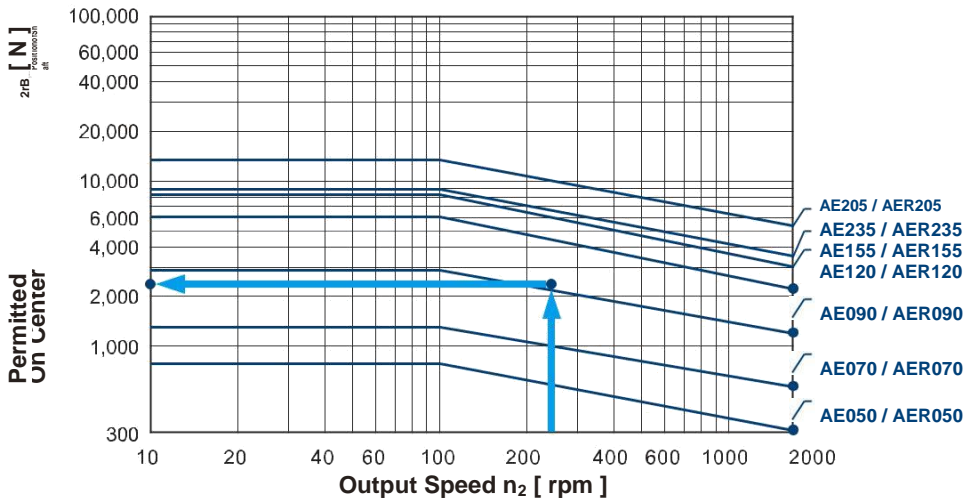
2. C1~C11 are motor specific dimensions (metric std shown). Refer to [www.apexdyna.com](http://www.apexdyna.com) and Design Tool to view your specific motor mounting system.

# Permitted Radial and Axial Loads

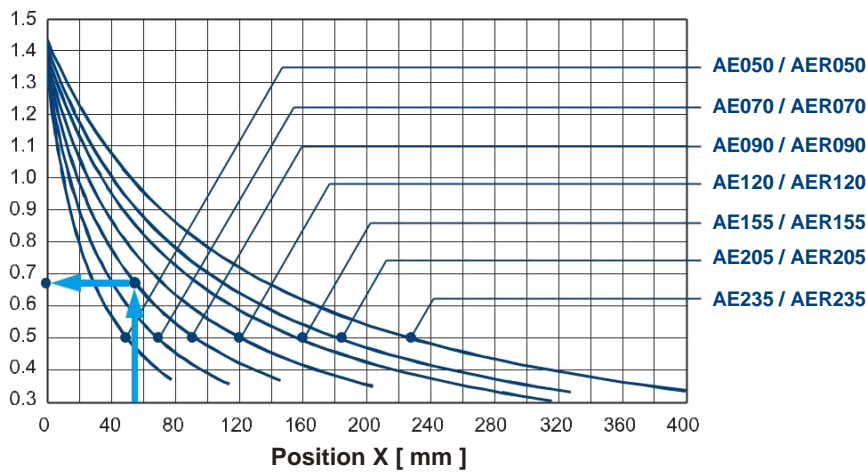


The permitted radial and axial loads on output shaft of the gearbox depend on the design of the gearbox supporting bearings. APEX use the extension straddle oversized ball bearing design. It can take heavy load from both axes.

**$F_{2r}$  Radial Load**  
 **$F_{2a}$  Axial Load**



If radial force  $F_{2r}$  exert on the center of the output shaft  $X=1/2 \times L$ . Under various operating condition the lifetime is over 20,000 hours\*. The permitted radial load is given on left diagram.



If radial force  $F_{2r}$  not exert on the center of the output shaft  $X < 1/2 \times L$  or  $X > 1/2 \times L$ . The permitted radial and axial load can be calculated by the position load factor  $K_b$  on the left diagram.

\* S1 service life 10,000 hrs

## Materials AES - AERS

<b>Material AES - AERS</b>	
<b>Component</b>	<b>Material</b>
Housing	SUS416
Right-Angle housing (AERS only)	SUS304
Adapter (Round)	SUS304
PK cover (Input part)	SUS304
Output shaft	SUS416
Bolts	SUS304
Key	SUS304
Standard lubrication	Synthetic lubrication oils / Foodgrade



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