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VRAS-Series

ABLE

Servo-Duty Gear Reducer



New Performance Leader

Highest Torque Density

Highest Stiffness

Best Standard Backlash

Highest Level of Environment Protection

Industry-Compatible Mounting

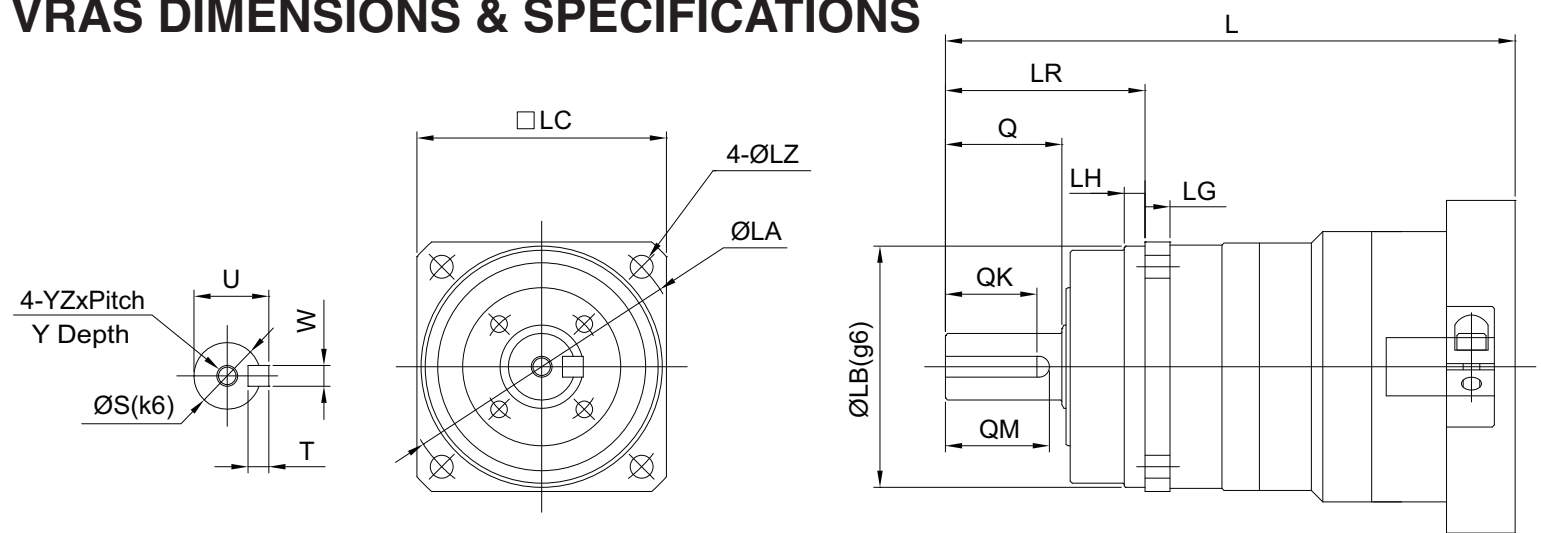
Best-In-Class Pricing

SHIMPO —All for dreams

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VRAS DIMENSIONS & SPECIFICATIONS



DIMENSION		SYMBOLS	FRAME SIZE									
			B		C		D		E		F	
			mm	in	mm	in	mm	in	mm	in	mm	in
OVERALL LENGTH	Single Reduction	L	154	6.063	186	7.323	240	9.449	284	11.181	351	13.819
	Double Reduction		162	6.378	197	7.756	256	10.079	319	12.559	400	15.748
OUTPUT SHAFT	Length	LR	48	1.890	56	2.205	88	3.465	112	4.409	112	4.409
	Shaft Length	Q	28	1.102	36	1.417	58	2.283	82	3.228	82	3.228
	Key Length	QK	22	0.866	28	1.102	45	1.772	65	2.559	63	2.480
	Keyway Length	QM	25	0.984	32	1.260	51	2.008	72	2.835	72	2.835
	Diameter	S	16	0.630	22	0.866	32	1.260	40	1.575	55	2.165
	Width	U	18	0.709	24.5	0.965	35	1.378	43	1.693	59	2.323
	Key Size	WxT	5x5	---	6x6	---	10x8	---	12x8	---	16x10	---
	Tap Size x Pitch	YZ	M5x0.8	---	M8x1.25	---	M12x1.75	---	M16x2.0	---	M20x2.5	---
OUTPUT FLANGE	Depth	Y	12.5	0.492	19	0.748	28	1.102	36	1.417	42	1.654
	Bolt Circle	LA	68	2.677	85	3.346	120	4.724	165	6.496	215	8.465
	Flange Diameter	LB	60	2.362	70	2.756	90	3.543	130	5.118	160	6.299
	Square	LC	60	2.362	75	2.953	100	3.937	140	5.512	180	7.087
	Flange Thickness	LG	6	0.236	7	0.276	10	0.394	12	0.472	15	0.591
	Pilot Depth	LH	5	0.197	6	0.236	8	0.315	10	0.394	12	0.472
	Hole Size	LZ	5.5	0.217	7.5	0.295	10	0.394	11	0.433	14	0.551

Note 1: Depending on installed Servo Motor, the "L" dimension varies slightly.

Note 2: Single Reduction 3-10:1, Double Reduction 16-100:1.

Typical Specifications*

SPECIFICATIONS	UNITS	B	C	D	E	F
Reduction Ratios - 3/4/5/7/10/16/20/25/28/35/40/50/70/100	-	-	-	-	-	-
Efficiency (at Rated Torque)	%	97	97	97	97	97
Max. Acceleration Torque	Nm	40	125	320	650	1400
Maximum Input Speed	rpm	6000	6000	4500	4000	4000
Emergency Stop Torque (Based on 1000 cycles)	Nm	100	250	625	1250	2750
Nominal Torque	Nm	26	75	180	360	750
Nominal Input Speed	rpm	5500	4500	4200	3900	3400
Backlash	arc-min	3	3	3	3	3
Max. Output Shaft Thrust Load	N	2500	3400	5800	10000	15000
Max. Output Shaft Radial Load	N	2800	4200	6500	10000	15000
Unit Life	h	20000	20000	20000	20000	20000
Weight	kg	1.9	3.9	8.9	20.0	44.0
Noise Level (at No Load)	dB-A	66	68	72	74	78
Maximum Unit Temp.	°C	90	90	90	90	90
Ambient Temp.	°C	0-40	0-40	0-40	0-40	0-40
Lubrication	-	Grease	Grease	Grease	Grease	Grease
Painting	-	Silver	Silver	Silver	Silver	Silver
Protection	-	IP65	IP65	IP65	IP65	IP65

*See catalog for exact specs per ratio

Concentric Shaft Configuration

Size	Ratio
B (60mm)	3,4,5,7,10:1
	16,20,25,28,35,40,50,70,100:1
C (75mm)	3,4,5,7,10:1
	16,20,25,28,35,40,50,70,100:1
D (100mm)	3,4,5,7,10:1
	16,20,25,28,35,40,50,70,100:1
E (140mm)	3,4,5,7,10:1
	16,20,25,28,35,40,50,70,100:1
F (180mm)	3,4,5,7,10:1
	16,20,25,28,35,40,50,70,100:1

Contact Shimpo Drives Customer Service for pricing, or for non-standard motor attachment dimensions.