

SHIMPO

VRL-Series

ABLE

Planetary Servo Reducers



New Performance Leader

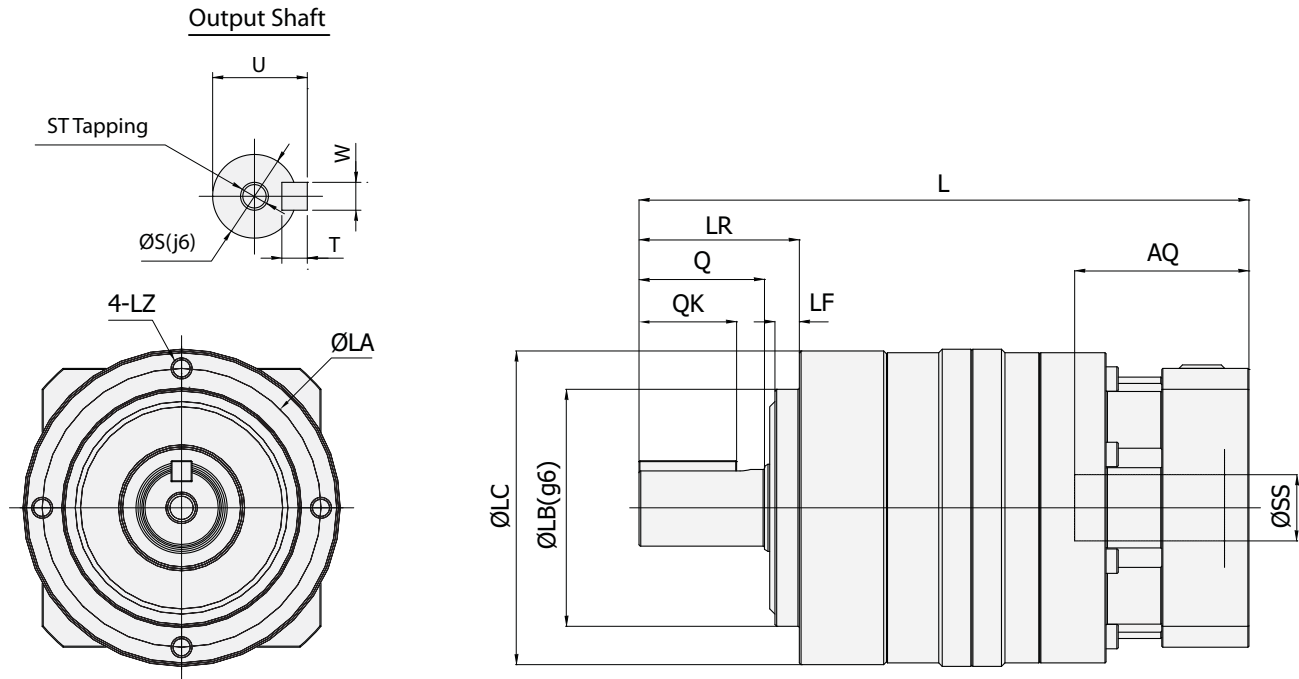
- Industry Standard Mounting Dimensions
- Thread-in Mounting Style
- Best-In-Class Backlash (≤ 5 arc-min)
- Ships in 48 hours
- Assembled in the USA

A *Nidec* Group Company

SHIMPO

All for dreams

VRL DIMENSIONS



Frame	Reduction	SS	LA	LB	LC	L	LR	LF	LZ	Q	QK	AQ	S	T	W	U	ST
070	Single	8	62	52	70	112	36	5	M5	28	22	32	16	5	5	18	M5
		14				35											
		19				50											
	Double	8				32											
		14				35											
090	Single	14	80	68	90	143	46	7	M6	36	28	35	22	6	6	24.5	M8
		19				50											
		28				67											
	Double	8				32											
		14				35											
		19				50											
120	Single	19	108	90	120	187	70	9	M8	58	45	50	32	8	10	35	M12
		28				67											
		38				82											
	Double	14				35											
		19				50											
		28				67											
155	Single	28	140	120	155	249	97	12	M10	82	65	67	40	8	12	43	M16
		38				82											
		48				118											
	Double	19				50											
		28				67											
		38				82											
205	Single	38	184	160	205	286.5	100	15	M12	82	65	82	55	10	16	59	M20
		48				118											
		65				122											
	Double	28				67											
		38				82											
		48				118											
235	Single	48	210	180	235	367.5	126	18	M16	105	85	118	75	12	20	79.5	M20
		65				122											
	Double	38				82											
		48				118											

Note 1: Depending on installed servo motor, the L dimension varies slightly.

Note 2: For other input shaft dimensions, bushing is installed into input shaft.

Note 3: Single reduction 3-10:1. Double reduction 15-100:1.

Note 4: Contact Shimpo for dimensional data for 050 frame sizes.

Note 5: Dimensions in mm.

Note 6: Also available in right angle.

VRL SPECIFICATIONS

Specification	Frame	070		090		120	
	Ratio	Single Reduction	Double Reduction	Single Reduction	Double Reduction	Single Reduction	Double Reduction
Nominal Output Torque	Nm	27	27	75	75	180	180
Maximum Output Torque	Nm	50	50	125	125	330	330
Emergency Stop Torque	Nm	100	100	250	250	625	625
Backlash	arc-min	5	5	5	5	5	5
Nominal Input Speed	rpm	3000	3000	3000	3000	3000	3000
Maximum Input Speed	rpm	6000	6000	6000	6000	6000	6000
Allowable Radial Load	N	640	1200	1200	2400	2000	4300
Allowable Thrust Load	N	530	1100	1600	2200	2500	3900
Weight	kg	1.5	1.7	3.5	4.0	7.8	8.7
Unit Life	hrs	20000	20000	20000	20000	20000	20000
Protection*		IP40	IP40	IP40	IP40	IP40	IP40
Moment of Inertia	kgcm ²	Contact us for the details					

Speed Reduction Ratios	Single	3,4,5,6,7,8,9,10:1
	Double	15,16,20,25,28,30,35,40,45,50,60,70,80,90,100:1

Note: Contact Shimpo for specification data for 050 frame sizes.

* Unit can achieve IP65 rating with appropriate sealant added between adapter and motor connection.

Contact Shimpo for details if IP65 rating is necessary.

Specification	Frame	155		205		235	
	Ratio	Single Reduction	Double Reduction	Single Reduction	Double Reduction	Single Reduction	Double Reduction
Nominal Output Torque	Nm	360	360	750	750	1500	1500
Maximum Output Torque	Nm	700	700	1400	1400	2300	2300
Emergency Stop Torque	Nm	1250	1250	2750	2750	5000	5000
Backlash	arc-min	5	5	5	5	5	5
Nominal Input Speed	rpm	2000	2000	1500	1500	1000	1000
Maximum Input Speed	rpm	4000	4000	3000	3000	2000	2000
Allowable Radial Load	N	4700	9100	15000	15000	15000	15000
Allowable Thrust Load	N	4100	8200	14000	14000	14000	14000
Weight	kg	16	18	39	40	55	57
Unit Life	hrs	20000	20000	20000	20000	20000	20000
Protection*		IP40	IP40	IP40	IP40	IP40	IP40
Moment of Inertia	kgcm ²	Contact us for the details					

Speed Reduction Ratios	Single	3,4,5,6,7,8,9,10:1
	Double	15,16,20,25,28,30,35,40,45,50,60,70,80,90,100:1

Note: Contact Shimpo for specification data for 050 frame sizes.

* Unit can achieve IP65 rating with appropriate sealant added between adapter and motor connection.

Contact Shimpo for details if IP65 rating is necessary.

Improving the Speed of Industry

Servo Motor Planetary Gear Reducers



ABLE Inline Series



ABLE Right Angle Series



ABLE with Rotary Stage

Mechanical Adjustable Speed Drives

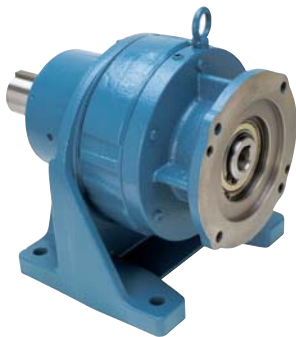


Standard Ringcone



Ringcone Motor Assembly

Industrial Duty Speed Reducers



Circulute Cycloidal Reducer



Circulute with Servo Input



Circulute Pulley Style

A **Nidec** Group Company

SHIMPO All for dreams

SHIMPO DRIVES, INC. 1701 Glenlake Avenue Itasca, IL 60143 USA • Phone: (800) 842-1479 • Fax: (630) 924-7382

www.shimpodrives.com • info@shimpodrives.com