

# SHIMPO VRL-Series

# ABLE

## Planetary Servo Reducers



### New Performance Leader

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

Sold & Serviced By  
 **ELECTROMATE**

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A Nidec Group Company

**SHIMPO**

All for dreams

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	<b>Double</b>	14				165						35					
		19				175						50					
<b>120</b>	<b>Single</b>	19	108	90	120	187	70	9	M8	58	45	50	32	8	10		
		28				204						67					
		38				225						82					
	<b>Double</b>	14				204.5						35					
		19				214.5						50					
		28				231.5						67					
<b>155</b>	<b>Single</b>	28	140	120	155	249	97	12	M10	82	65	67	40	8	12	43	M16
		38				264						82					
		48				305						118					
	<b>Double</b>	19				266.5						50					
		28				283.5						67					
		38				298.5						82					
<b>205</b>	<b>Single</b>	38	184	160	205	286.5	100	15	M12	82	65	82	55	10	16	59	M20
		48				322.5						118					
		65				334						122					
	<b>Double</b>	28				316						67					
		38				331						82					
		48				367						118					
<b>235</b>	<b>Single</b>	48	210	180	235	367.5	126	18	M16	105	85	118	75	12	20	79.5	M20
		65				371.5						122					
	<b>Double</b>	38				366.5						82					
		48				402.5						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.

Specification	Ratio	Single Reduction		Double Reduction		Double Reduction	
		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 <sup>2</sup>	Contact us for the details					

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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

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