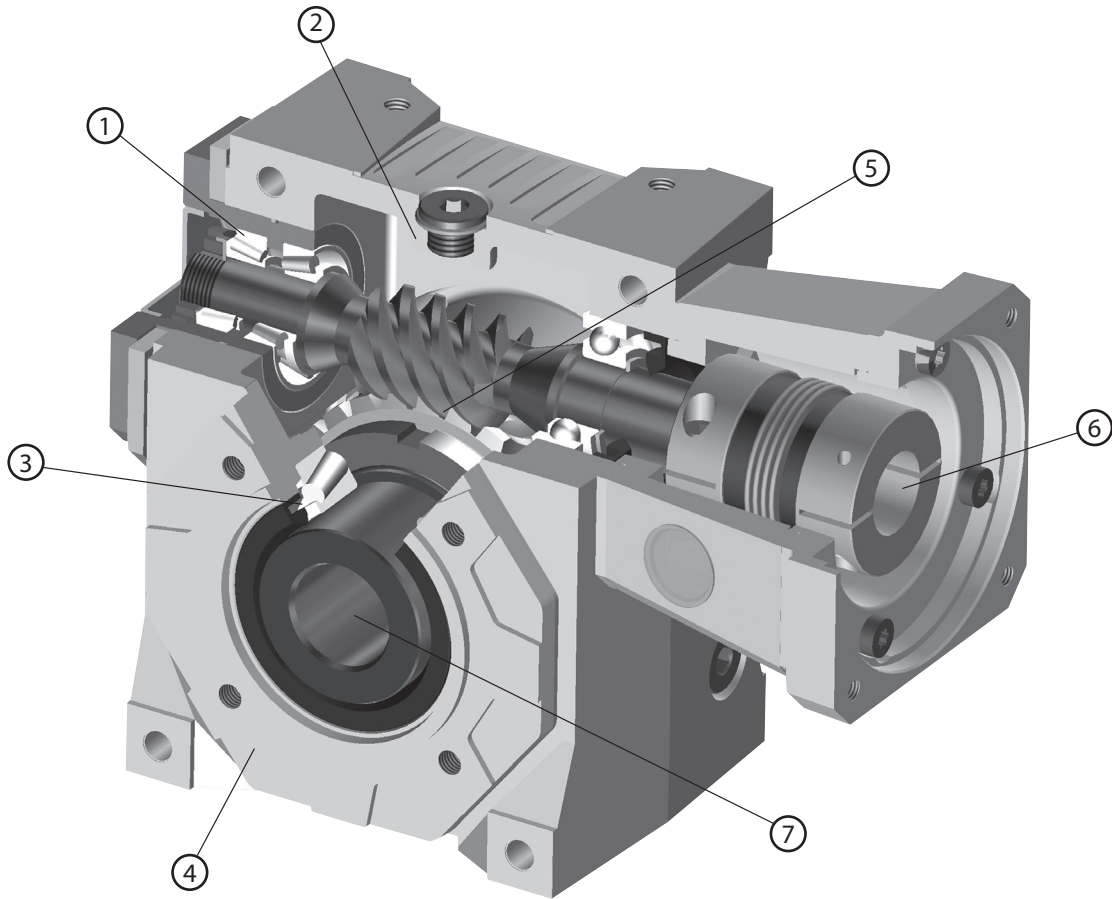


EJL SERIES

- Best price-performance ratio among all servo worm gearheads
- Three levels of backlash, as low as 1 arc-min to meet any application requirement
- Output options include single and dual shaft, hollow bore with keyway, hollow bore with shrink disc and robotic ISO flange
- 11 frame sizes with ratios up to 90:1 in a single stage

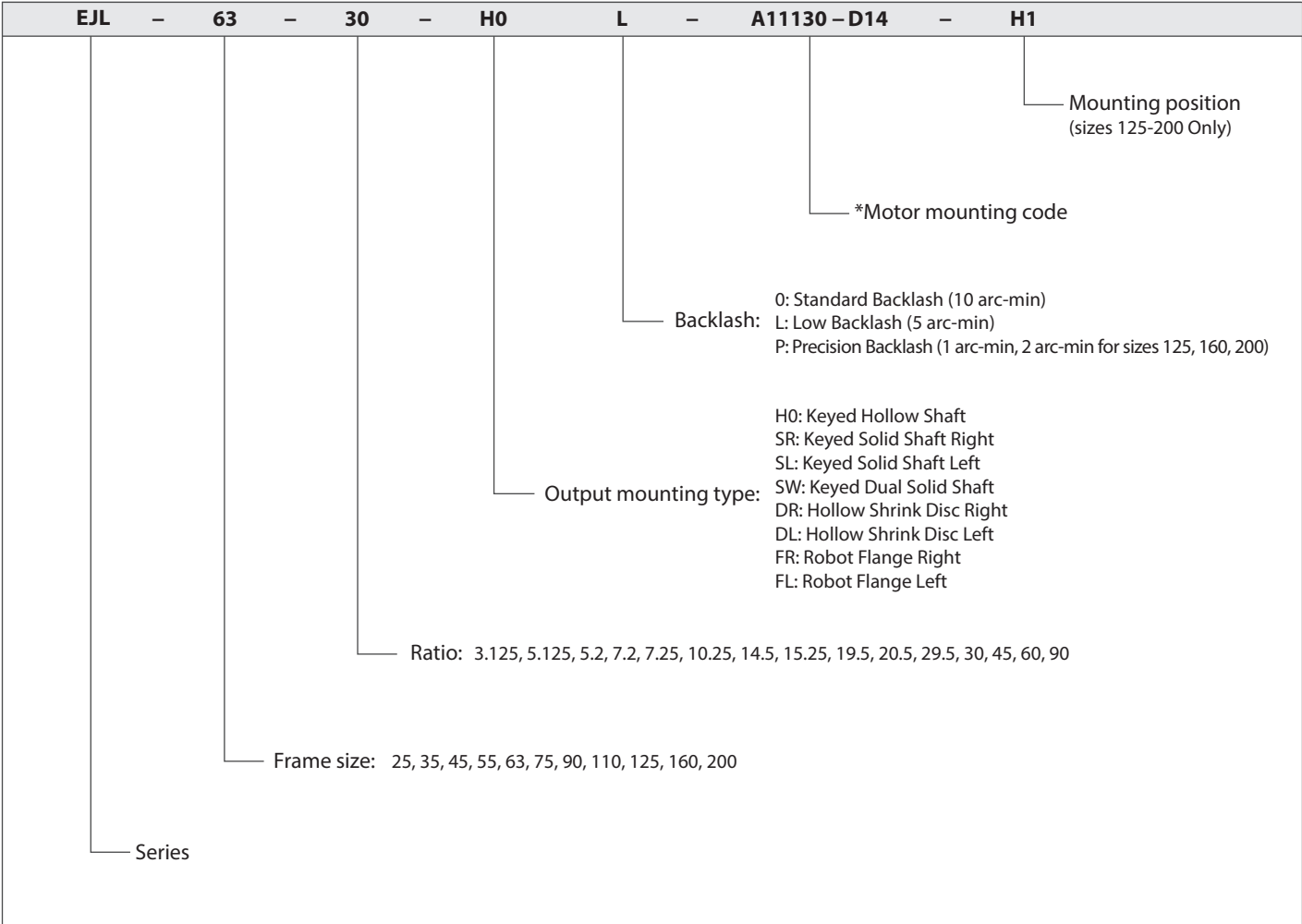
EJL SERIES Right-angle Worm

EJL Series Features



- ① Tapered bearing input with constant preload over all allowable temperature ranges. High stiffness and long life
- ② Maintenance-free, lubricated for life with high performance synthetic oil
- ③ Oversized tapered roller bearing at the output provides unmatched radial load and tilting moment capacity
- ④ Single piece housing made of cast and heat treated aluminum magnesium alloy offering superior rigidity and low weight (Sizes 125-200 utilize a cast iron housing)
- ⑤ Optimized gear contact pattern. 90% of teeth in contact resulting in excellent wear resistance and low backlash maintained throughout the life of the gearhead
- ⑥ Simple servomotor mounting. Adapter plates designed to mount to any motor and a high stiffness bellows coupling to eliminate shaft misalignment
- ⑦ Wide range of output options include single shaft, dual shaft, keyed hollow, shrink disc and robotic ISO flange

EJL Series Model Code



* Motor mounting code varies depending on the motor. Contact us to configure the code.

EJL 025 1-Stage Specifications

Frame Size	025					
Ratio	Unit	Note	5.2	7.25	10.25	14.5
Nominal Output Torque	[Nm]	*1	8	8	8	9
Maximum Acceleration Torque	[Nm]	*1	13	14	13	15
Emergency Stop Torque	[Nm]	--	46	46	46	46
No Load Running Torque	[Nm]	*2	0.23	0.25	0.19	0.18
Nominal Input Speed	[rpm]	*1	4,000			
Maximum Continuous Input Speed	[rpm]	*1	4,000			
Maximum Cyclic Input Speed	[rpm]	--	6,000			
Maximum Radial Load	[N]	*3	1500			
Maximum Axial Load	[N]	*4	500			
Moment of Inertia	[kgcm ²]	--	0.02	0.02	0.01	0.01
Efficiency	[%]	*5	86	85	84	77
Torsional Rigidity	[Nm/arcmin]	--	2			
Maximum Torsional Backlash (Standard)	[Arc-min]	--	≤ 15			
Noise Level	dB [A]	*6	60			
Ambient Temperature	[°C]	--	-30 to +40			
Permitted Housing Temperature	[°C]	--	+80			
Protection Class	--	--	IP65			
Lubrication	--	--	Synthetic Oil			
Service Life	[Hours]	--	25,000			
Weight	[kg]	*7	1.4			

*1) Higher output torque is available at reduced speed. Contact us if you need to operate outside of these parameters

*2) Input torque with no load applied to the output shaft at 2,000 rpm

*3) The maximum radial load the gearbox can accept

*4) The maximum axial load the gearbox can accept

*5) The efficiency at the nominal output torque and input speed rating

*6) Measured with no load applied to the output shaft at 3,000 rpm and 1 meter distance

*7) Weight may vary slightly between models

EJL 025 1-Stage Specifications

Frame Size	025					
Ratio	Unit	Note	19.5	30	45	60
Nominal Output Torque	[Nm]	*1	9	11	11	10
Maximum Acceleration Torque	[Nm]	*1	15	18	18	16
Emergency Stop Torque	[Nm]	--	46	46	42	35
No Load Running Torque	[Nm]	*2	0.18	0.15	0.15	0.14
Nominal Input Speed	[rpm]	*1	4,000			
Maximum Continuous Input Speed	[rpm]	*1	4,000			
Maximum Cyclic Input Speed	[rpm]	--	6,000			
Maximum Radial Load	[N]	*3	1500			
Maximum Axial Load	[N]	*4	500			
Moment of Inertia	[kgcm ²]	--	0.01	0.01	0.01	0.01
Efficiency	[%]	*5	74	65	59	53
Torsional Rigidity	[Nm/arcmin]	--	2			
Maximum Torsional Backlash (Standard)	[Arc-min]	--	≤ 15			
Noise Level	dB [A]	*6	60			
Ambient Temperature	[°C]	--	-30 to +40			
Permitted Housing Temperature	[°C]	--	+80			
Protection Class	--	--	IP65			
Lubrication	--	--	Synthetic Oil			
Service Life	[Hours]	--	25,000			
Weight	[kg]	*7	1.4			

*1) Higher output torque is available at reduced speed. Contact us if you need to operate outside of these parameters

*2) Input torque with no load applied to the output shaft at 2,000 rpm

*3) The maximum radial load the gearbox can accept

*4) The maximum axial load the gearbox can accept

*5) The efficiency at the nominal output torque and input speed rating

*6) Measured with no load applied to the output shaft at 3,000 rpm and 1 meter distance

*7) Weight may vary slightly between models

EJL 035 1-Stage Specifications

Frame Size	035						
Ratio	Unit	Note	5.2	7.25	10.25	14.5	19.5
Nominal Output Torque	[Nm]	*1	16	17	17	19	20
Maximum Acceleration Torque	[Nm]	*1	27	28	29	31	32
Emergency Stop Torque	[Nm]	--	96	96	96	96	96
No Load Running Torque	[Nm]	*2	0.46	0.46	0.30	0.32	0.30
Nominal Input Speed	[rpm]	*1	4,000				
Maximum Continuous Input Speed	[rpm]	*1	4,000				
Maximum Cyclic Input Speed	[rpm]	--	6,000				
Maximum Radial Load	[N]	*3	3,800				
Maximum Axial Load	[N]	*4	2,800				
Moment of Inertia	[kgcm ²]	--	0.07	0.06	0.05	0.04	0.04
Efficiency	[%]	*5	91	89	87	81	78
Torsional Rigidity	[Nm/arcmin]	--	5				
Maximum Torsional Backlash (Standard)	[Arc-min]	--	≤ 10				
Maximum Torsional Backlash (Low)	[Arc-min]	--	≤ 5				
Maximum Torsional Backlash (Precision)	[Arc-min]	--	≤ 1				
Noise Level	dB [A]	*6	60				
Ambient Temperature	[°C]	--	-30 to +40				
Permitted Housing Temperature	[°C]	--	+80				
Protection Class	--	--	IP65				
Lubrication	--	--	Synthetic Oil				
Service Life	[Hours]	--	25,000				
Weight	[kg]	*7	3.5				

*1) Higher output torque is available at reduced speed. Contact us if you need to operate outside of these parameters

*2) Input torque with no load applied to the output shaft at 2,000 rpm

*3) The maximum radial load the gearbox can accept

*4) The maximum axial load the gearbox can accept

*5) The efficiency at the nominal output torque and input speed rating

*6) Measured with no load applied to the output shaft at 3,000 rpm and 1 meter distance

*7) Weight may vary slightly between models

EJL 035 1-Stage Specifications

Frame Size	035					
Ratio	Unit	Note	30	45	60	90
Nominal Output Torque	[Nm]	*1	23	23	22	21
Maximum Acceleration Torque	[Nm]	*1	37	36	34	32
Emergency Stop Torque	[Nm]	--	96	87	73	72
No Load Running Torque	[Nm]	*2	0.27	0.26	0.26	0.29
Nominal Input Speed	[rpm]	*1	4,000			
Maximum Continuous Input Speed	[rpm]	*1	4,000			
Maximum Cyclic Input Speed	[rpm]	--	6,000			
Maximum Radial Load	[N]	*3	3,800			
Maximum Axial Load	[N]	*4	2,800			
Moment of Inertia	[kgcm ²]	--	0.04	0.04	0.03	0.02
Efficiency	[%]	*5	69	61	55	46
Torsional Rigidity	[Nm/arcmin]	--	5			
Maximum Torsional Backlash (Standard)	[Arc-min]	--	≤ 10			
Maximum Torsional Backlash (Low)	[Arc-min]	--	≤ 5			
Maximum Torsional Backlash (Precision)	[Arc-min]	--	≤ 1			
Noise Level	dB [A]	*6	60			
Ambient Temperature	[°C]	--	-30 to +40			
Permitted Housing Temperature	[°C]	--	+80			
Protection Class	--	--	IP65			
Lubrication	--	--	Synthetic Oil			
Service Life	[Hours]	--	25,000			
Weight	[kg]	*7	3.5			

*1) Higher output torque is available at reduced speed. Contact us if you need to operate outside of these parameters

*2) Input torque with no load applied to the output shaft at 2,000 rpm

*3) The maximum radial load the gearbox can accept

*4) The maximum axial load the gearbox can accept

*5) The efficiency at the nominal output torque and input speed rating

*6) Measured with no load applied to the output shaft at 3,000 rpm and 1 meter distance

*7) Weight may vary slightly between models

EJL 045 1-Stage Specifications

Frame Size	045						
Ratio	Unit	Note	3.125	5.2	7.25	10.25	14.5
Nominal Output Torque	[Nm]	*1	30	36	42	46	52
Maximum Acceleration Torque	[Nm]	*1	48	62	71	80	83
Emergency Stop Torque	[Nm]	--	214	214	214	214	214
No Load Running Torque	[Nm]	*2	1.07	0.98	0.86	0.77	0.66
Nominal Input Speed	[rpm]	*1	4,000				
Maximum Continuous Input Speed	[rpm]	*1	4,000				
Maximum Cyclic Input Speed	[rpm]	--	6,000				
Maximum Radial Load	[N]	*3	5,800				
Maximum Axial Load	[N]	*4	4,000				
Moment of Inertia	[kgcm ²]	--	0.47	0.29	0.22	0.15	0.14
Efficiency	[%]	*5	93	92	91	90	86
Torsional Rigidity	[Nm/arcmin]	--	9				
Maximum Torsional Backlash (Standard)	[Arc-min]	--	≤ 10				
Maximum Torsional Backlash (Low)	[Arc-min]	--	≤ 5				
Maximum Torsional Backlash (Precision)	[Arc-min]	--	≤ 1				
Noise Level	dB [A]	*6	60				
Ambient Temperature	[°C]	--	-30 to +40				
Permitted Housing Temperature	[°C]	--	+80				
Protection Class	--	--	IP65				
Lubrication	--	--	Synthetic Oil				
Service Life	[Hours]	--	25,000				
Weight	[kg]	*7	6.5				

*1) Higher output torque is available at reduced speed. Contact us if you need to operate outside of these parameters

*2) Input torque with no load applied to the output shaft at 2,000 rpm

*3) The maximum radial load the gearbox can accept

*4) The maximum axial load the gearbox can accept

*5) The efficiency at the nominal output torque and input speed rating

*6) Measured with no load applied to the output shaft at 3,000 rpm and 1 meter distance

*7) Weight may vary slightly between models

EJL 045 1-Stage Specifications

Frame Size	045							
Ratio	Unit	Note	19.5	30	45	60	90	
Nominal Output Torque	[Nm]	*1	50	55	54	50	46	
Maximum Acceleration Torque	[Nm]	*1	80	88	86	78	71	
Emergency Stop Torque	[Nm]	--	214	214	185	170	154	
No Load Running Torque	[Nm]	*2	0.58	0.59	0.46	0.54	0.56	
Nominal Input Speed	[rpm]	*1	4,000					
Maximum Continuous Input Speed	[rpm]	*1	4,000					
Maximum Cyclic Input Speed	[rpm]	--	6,000					
Maximum Radial Load	[N]	*3	5,800					
Maximum Axial Load	[N]	*4	4,000					
Moment of Inertia	[kgcm ²]	--	0.10	0.10	0.08	0.07	0.05	
Efficiency	[%]	*5	84	76	69	64	56	
Torsional Rigidity	[Nm/arcmin]	--	9					
Maximum Torsional Backlash (Standard)	[Arc-min]	--	≤ 10					
Maximum Torsional Backlash (Low)	[Arc-min]	--	≤ 5					
Maximum Torsional Backlash (Precision)	[Arc-min]	--	≤ 1					
Noise Level	dB [A]	*6	60					
Ambient Temperature	[°C]	--	-30 to +40					
Permitted Housing Temperature	[°C]	--	+80					
Protection Class	--	--	IP65					
Lubrication	--	--	Synthetic Oil					
Service Life	[Hours]	--	25,000					
Weight	[kg]	*7	6.5					

*1) Higher output torque is available at reduced speed. Contact us if you need to operate outside of these parameters

*2) Input torque with no load applied to the output shaft at 2,000 rpm

*3) The maximum radial load the gearbox can accept

*4) The maximum axial load the gearbox can accept

*5) The efficiency at the nominal output torque and input speed rating

*6) Measured with no load applied to the output shaft at 3,000 rpm and 1 meter distance

*7) Weight may vary slightly between models

EJL 055 1-Stage Specifications

Frame Size	055							
Ratio	Unit	Note	3.125	5.2	7.25	10.25	14.5	
Nominal Output Torque	[Nm]	*1	52	60	65	76	71	
Maximum Acceleration Torque	[Nm]	*1	83	103	111	132	115	
Emergency Stop Torque	[Nm]	--	307	307	307	307	307	
No Load Running Torque	[Nm]	*2	1.24	1.15	1.15	0.96	0.96	
Nominal Input Speed	[rpm]	*1	4,000					
Maximum Continuous Input Speed	[rpm]	*1	4,000					
Maximum Cyclic Input Speed	[rpm]	--	6,000					
Maximum Radial Load	[N]	*3	7,000					
Maximum Axial Load	[N]	*4	4,800					
Moment of Inertia	[kgcm ²]	--	1.1	0.75	0.53	0.45	0.38	
Efficiency	[%]	*5	93	93	91	88	85	
Torsional Rigidity	[Nm/arcmin]	--	20					
Maximum Torsional Backlash (Standard)	[Arc-min]	--	≤ 10					
Maximum Torsional Backlash (Low)	[Arc-min]	--	≤ 5					
Maximum Torsional Backlash (Precision)	[Arc-min]	--	≤ 1					
Noise Level	dB [A]	*6	70					
Ambient Temperature	[°C]	--	-30 to +40					
Permitted Housing Temperature	[°C]	--	+80					
Protection Class	--	--	IP65					
Lubrication	--	--	Synthetic Oil					
Service Life	[Hours]	--	25,000					
Weight	[kg]	*7	8.9					

*1) Higher output torque is available at reduced speed. Contact us if you need to operate outside of these parameters

*2) Input torque with no load applied to the output shaft at 2,000 rpm

*3) The maximum radial load the gearbox can accept

*4) The maximum axial load the gearbox can accept

*5) The efficiency at the nominal output torque and input speed rating

*6) Measured with no load applied to the output shaft at 3,000 rpm and 1 meter distance

*7) Weight may vary slightly between models

EJL 055 1-Stage Specifications

Frame Size	055							
Ratio	Unit	Note	19.5	30	45	60	90	
Nominal Output Torque	[Nm]	*1	77	83	83	82	76	
Maximum Acceleration Torque	[Nm]	*1	123	130	130	128	117	
Emergency Stop Torque	[Nm]	--	307	307	307	286	263	
No Load Running Torque	[Nm]	*2	0.80	0.82	0.75	0.61	0.66	
Nominal Input Speed	[rpm]	*1	4,000					
Maximum Continuous Input Speed	[rpm]	*1	4,000					
Maximum Cyclic Input Speed	[rpm]	--	6,000					
Maximum Radial Load	[N]	*3	7,000					
Maximum Axial Load	[N]	*4	4,800					
Moment of Inertia	[kgcm ²]	--	0.31	0.34	0.28	0.26	0.12	
Efficiency	[%]	*5	83	75	69	63	55	
Torsional Rigidity	[Nm/arcmin]	--	20					
Maximum Torsional Backlash (Standard)	[Arc-min]	--	≤ 10					
Maximum Torsional Backlash (Low)	[Arc-min]	--	≤ 5					
Maximum Torsional Backlash (Precision)	[Arc-min]	--	≤ 1					
Noise Level	dB [A]	*6	70					
Ambient Temperature	[°C]	--	-30 to +40					
Permitted Housing Temperature	[°C]	--	+80					
Protection Class	--	--	IP65					
Lubrication	--	--	Synthetic Oil					
Service Life	[Hours]	--	25,000					
Weight	[kg]	*7	8.9					

*1) Higher output torque is available at reduced speed. Contact us if you need to operate outside of these parameters

*2) Input torque with no load applied to the output shaft at 2,000 rpm

*3) The maximum radial load the gearbox can accept

*4) The maximum axial load the gearbox can accept

*5) The efficiency at the nominal output torque and input speed rating

*6) Measured with no load applied to the output shaft at 3,000 rpm and 1 meter distance

*7) Weight may vary slightly between models

EJL 063 1-Stage Specifications

Frame Size	063						
Ratio	Unit	Note	5.2	7.25	10.25	14.5	19.5
Nominal Output Torque	[Nm]	*1	90	91	103	110	119
Maximum Acceleration Torque	[Nm]	*1	153	155	169	179	190
Emergency Stop Torque	[Nm]	--	497	497	497	497	497
No Load Running Torque	[Nm]	*2	2.51	1.76	1.81	1.15	1.08
Nominal Input Speed	[rpm]	*1	4,000				
Maximum Continuous Input Speed	[rpm]	*1	4,000				
Maximum Cyclic Input Speed	[rpm]	--	6,000				
Maximum Radial Load	[N]	*3	8,800				
Maximum Axial Load	[N]	*4	8,500				
Moment of Inertia	[kgcm ²]	--	1.6	0.9	0.8	0.69	0.55
Efficiency	[%]	*5	93	92	91	87	85
Torsional Rigidity	[Nm/arcmin]	--	36				
Maximum Torsional Backlash (Standard)	[Arc-min]	--	≤ 10				
Maximum Torsional Backlash (Low)	[Arc-min]	--	≤ 5				
Maximum Torsional Backlash (Precision)	[Arc-min]	--	≤ 1				
Noise Level	dB [A]	*6	70				
Ambient Temperature	[°C]	--	-30 to +40				
Permitted Housing Temperature	[°C]	--	+80				
Protection Class	--	--	IP65				
Lubrication	--	--	Synthetic Oil				
Service Life	[Hours]	--	25,000				
Weight	[kg]	*7	14.5				

*1) Higher output torque is available at reduced speed. Contact us if you need to operate outside of these parameters

*2) Input torque with no load applied to the output shaft at 2,000 rpm

*3) The maximum radial load the gearbox can accept

*4) The maximum axial load the gearbox can accept

*5) The efficiency at the nominal output torque and input speed rating

*6) Measured with no load applied to the output shaft at 3,000 rpm and 1 meter distance

*7) Weight may vary slightly between models

EJL 063 1-Stage Specifications

Frame Size	063					
Ratio	Unit	Note	30	45	60	90
Nominal Output Torque	[Nm]	*1	138	123	121	110
Maximum Acceleration Torque	[Nm]	*1	218	193	189	169
Emergency Stop Torque	[Nm]	--	497	403	404	368
No Load Running Torque	[Nm]	*2	1.10	1.02	1.15	1.18
Nominal Input Speed	[rpm]	*1	4,000			
Maximum Continuous Input Speed	[rpm]	*1	4,000			
Maximum Cyclic Input Speed	[rpm]	--	6,000			
Maximum Radial Load	[N]	*3	8,800			
Maximum Axial Load	[N]	*4	8,500			
Moment of Inertia	[kgcm ²]	--	0.59	0.5	0.47	0.32
Efficiency	[%]	*5	78	72	67	59
Torsional Rigidity	[Nm/arcmin]	--	36			
Maximum Torsional Backlash (Standard)	[Arc-min]	--	≤ 10			
Maximum Torsional Backlash (Low)	[Arc-min]	--	≤ 5			
Maximum Torsional Backlash (Precision)	[Arc-min]	--	≤ 1			
Noise Level	dB [A]	*6	70			
Ambient Temperature	[°C]	--	-30 to +40			
Permitted Housing Temperature	[°C]	--	+80			
Protection Class	--	--	IP65			
Lubrication	--	--	Synthetic Oil			
Service Life	[Hours]	--	25,000			
Weight	[kg]	*7	14.5			

*1) Higher output torque is available at reduced speed. Contact us if you need to operate outside of these parameters

*2) Input torque with no load applied to the output shaft at 2,000 rpm

*3) The maximum radial load the gearbox can accept

*4) The maximum axial load the gearbox can accept

*5) The efficiency at the nominal output torque and input speed rating

*6) Measured with no load applied to the output shaft at 3,000 rpm and 1 meter distance

*7) Weight may vary slightly between models

EJL 075 1-Stage Specifications

Frame Size	075						
Ratio	Unit	Note	5.2	7.25	10.25	14.5	19.5
Nominal Output Torque	[Nm]	*1	174	161	168	195	194
Maximum Acceleration Torque	[Nm]	*1	296	270	269	315	310
Emergency Stop Torque	[Nm]	--	834	834	834	834	834
No Load Running Torque	[Nm]	*2	2.89	2.55	2.26	1.93	1.71
Nominal Input Speed	[rpm]	*1	3,000				
Maximum Continuous Input Speed	[rpm]	*1	4,000				
Maximum Cyclic Input Speed	[rpm]	--	6,000				
Maximum Radial Load	[N]	*3	10,500				
Maximum Axial Load	[N]	*4	10,500				
Moment of Inertia	[kgcm ²]	--	3.7	2.5	2.2	1.9	1.5
Efficiency	[%]	*5	94	92	91	87	85
Torsional Rigidity	[Nm/arcmin]	--	50				
Maximum Torsional Backlash (Standard)	[Arc-min]	--	≤ 10				
Maximum Torsional Backlash (Low)	[Arc-min]	--	≤ 5				
Maximum Torsional Backlash (Precision)	[Arc-min]	--	≤ 1				
Noise Level	dB [A]	*6	75				
Ambient Temperature	[°C]	--	-30 to +40				
Permitted Housing Temperature	[°C]	--	+80				
Protection Class	--	--	IP65				
Lubrication	--	--	Synthetic Oil				
Service Life	[Hours]	--	25,000				
Weight	[kg]	*7	21.3				

*1) Higher output torque is available at reduced speed. Contact us if you need to operate outside of these parameters

*2) Input torque with no load applied to the output shaft at 2,000 rpm

*3) The maximum radial load the gearbox can accept

*4) The maximum axial load the gearbox can accept

*5) The efficiency at the nominal output torque and input speed rating

*6) Measured with no load applied to the output shaft at 3,000 rpm and 1 meter distance

*7) Weight may vary slightly between models

EJL 075 1-Stage Specifications

Frame Size	075					
Ratio	Unit	Note	30	45	60	90
Nominal Output Torque	[Nm]	*1	212	212	195	184
Maximum Acceleration Torque	[Nm]	*1	334	331	300	280
Emergency Stop Torque	[Nm]	--	834	718	657	625
No Load Running Torque	[Nm]	*2	1.74	1.41	1.60	1.65
Nominal Input Speed	[rpm]	*1	3,000			
Maximum Continuous Input Speed	[rpm]	*1	4,000			
Maximum Cyclic Input Speed	[rpm]	--	6,000			
Maximum Radial Load	[N]	*3	10,500			
Maximum Axial Load	[N]	*4	10,500			
Moment of Inertia	[kgcm ²]	--	1.6	1.4	1.3	0.8
Efficiency	[%]	*5	80	71	66	57
Torsional Rigidity	[Nm/arcmin]	--	50			
Maximum Torsional Backlash (Standard)	[Arc-min]	--	≤ 10			
Maximum Torsional Backlash (Low)	[Arc-min]	--	≤ 5			
Maximum Torsional Backlash (Precision)	[Arc-min]	--	≤ 1			
Noise Level	dB [A]	*6	75			
Ambient Temperature	[°C]	--	-30 to +40			
Permitted Housing Temperature	[°C]	--	+80			
Protection Class	--	--	IP65			
Lubrication	--	--	Synthetic Oil			
Service Life	[Hours]	--	25,000			
Weight	[kg]	*7	21.3			

*1) Higher output torque is available at reduced speed. Contact us if you need to operate outside of these parameters

*2) Input torque with no load applied to the output shaft at 2,000 rpm

*3) The maximum radial load the gearbox can accept

*4) The maximum axial load the gearbox can accept

*5) The efficiency at the nominal output torque and input speed rating

*6) Measured with no load applied to the output shaft at 3,000 rpm and 1 meter distance

*7) Weight may vary slightly between models

EJL SERIES Right-angle Worm

EJL 090 1-Stage Specifications

Frame Size	090						
Ratio	Unit	Note	5.2	7.25	10.25	14.5	19.5
Nominal Output Torque	[Nm]	*1	271	306	314	314	367
Maximum Acceleration Torque	[Nm]	*1	460	490	528	504	584
Emergency Stop Torque	[Nm]	--	1,543	1,543	1,543	1,543	1,543
No Load Running Torque	[Nm]	*2	2.97	2.62	2.33	1.99	1.76
Nominal Input Speed	[rpm]	*1	3,000				
Maximum Continuous Input Speed	[rpm]	*1	4,000				
Maximum Cyclic Input Speed	[rpm]	--	6,000				
Maximum Radial Load	[N]	*3	15,800				
Maximum Axial Load	[N]	*4	13,000				
Moment of Inertia	[kgcm ²]	--	8.5	6	3.8	3.2	2.5
Efficiency	[%]	*5	94	94	92	88	87
Torsional Rigidity	[Nm/arcmin]	--	75				
Maximum Torsional Backlash (Standard)	[Arc-min]	--	≤ 10				
Maximum Torsional Backlash (Low)	[Arc-min]	--	≤ 5				
Maximum Torsional Backlash (Precision)	[Arc-min]	--	≤ 1				
Noise Level	dB [A]	*6	75				
Ambient Temperature	[°C]	--	-30 to +40				
Permitted Housing Temperature	[°C]	--	+80				
Protection Class	--	--	IP65				
Lubrication	--	--	Synthetic Oil				
Service Life	[Hours]	--	25,000				
Weight	[kg]	*7	33.8				

*1) Higher output torque is available at reduced speed. Contact us if you need to operate outside of these parameters

*2) Input torque with no load applied to the output shaft at 2,000 rpm

*3) The maximum radial load the gearbox can accept

*4) The maximum axial load the gearbox can accept

*5) The efficiency at the nominal output torque and input speed rating

*6) Measured with no load applied to the output shaft at 3,000 rpm and 1 meter distance

*7) Weight may vary slightly between models

EJL 090 1-Stage Specifications

Frame Size	090					
Ratio	Unit	Note	30	45	60	90
Nominal Output Torque	[Nm]	*1	362	385	364	332
Maximum Acceleration Torque	[Nm]	*1	572	599	559	505
Emergency Stop Torque	[Nm]	--	1,543	1,255	1,230	1,114
No Load Running Torque	[Nm]	*2	1.79	1.43	1.65	1.70
Nominal Input Speed	[rpm]	*1	3,000			
Maximum Continuous Input Speed	[rpm]	*1	4,000			
Maximum Cyclic Input Speed	[rpm]	--	6,000			
Maximum Radial Load	[N]	*3	15,800			
Maximum Axial Load	[N]	*4	13,000			
Moment of Inertia	[kgcm ²]	--	2.6	1.9	1.7	1
Efficiency	[%]	*5	80	76	72	64
Torsional Rigidity	[Nm/arcmin]	--	75			
Maximum Torsional Backlash (Standard)	[Arc-min]	--	≤ 10			
Maximum Torsional Backlash (Low)	[Arc-min]	--	≤ 5			
Maximum Torsional Backlash (Precision)	[Arc-min]	--	≤ 1			
Noise Level	dB [A]	*6	75			
Ambient Temperature	[°C]	--	-30 to +40			
Permitted Housing Temperature	[°C]	--	+80			
Protection Class	--	--	IP65			
Lubrication	--	--	Synthetic Oil			
Service Life	[Hours]	--	25,000			
Weight	[kg]	*7	33.8			

*1) Higher output torque is available at reduced speed. Contact us if you need to operate outside of these parameters

*2) Input torque with no load applied to the output shaft at 2,000 rpm

*3) The maximum radial load the gearbox can accept

*4) The maximum axial load the gearbox can accept

*5) The efficiency at the nominal output torque and input speed rating

*6) Measured with no load applied to the output shaft at 3,000 rpm and 1 meter distance

*7) Weight may vary slightly between models

EJL 110 1-Stage Specifications

Frame Size	110						
Ratio	Unit	Note	5.2	7.25	10.25	14.5	19.5
Nominal Output Torque	[Nm]	*1	458	488	522	519	589
Maximum Acceleration Torque	[Nm]	*1	779	795	878	830	943
Emergency Stop Torque	[Nm]	--	2,289	2,289	2,289	2,289	2,289
No Load Running Torque	[Nm]	*2	3.20	2.82	2.51	2.14	1.89
Nominal Input Speed	[rpm]	*1	3,000				
Maximum Continuous Input Speed	[rpm]	*1	4,000				
Maximum Cyclic Input Speed	[rpm]	--	6,000				
Maximum Radial Load	[N]	*3	21,500				
Maximum Axial Load	[N]	*4	16,000				
Moment of Inertia	[kgcm ²]	--	18.5	13	8.5	6.3	4.6
Efficiency	[%]	*5	94	94	92	90	88
Torsional Rigidity	[Nm/arcmin]	--	120				
Maximum Torsional Backlash (Standard)	[Arc-min]	--	≤ 10				
Maximum Torsional Backlash (Low)	[Arc-min]	--	≤ 5				
Maximum Torsional Backlash (Precision)	[Arc-min]	--	≤ 1				
Noise Level	dB [A]	*6	75				
Ambient Temperature	[°C]	--	-30 to +40				
Permitted Housing Temperature	[°C]	--	+80				
Protection Class	--	--	IP65				
Lubrication	--	--	Synthetic Oil				
Service Life	[Hours]	--	25,000				
Weight	[kg]	*7	48.4				

*1) Higher output torque is available at reduced speed. Contact us if you need to operate outside of these parameters

*2) Input torque with no load applied to the output shaft at 2,000 rpm

*3) The maximum radial load the gearbox can accept

*4) The maximum axial load the gearbox can accept

*5) The efficiency at the nominal output torque and input speed rating

*6) Measured with no load applied to the output shaft at 3,000 rpm and 1 meter distance

*7) Weight may vary slightly between models

EJL 110 1-Stage Specifications

Frame Size	110					
Ratio	Unit	Note	30	45	60	90
Nominal Output Torque	[Nm]	*1	688	665	588	557
Maximum Acceleration Torque	[Nm]	*1	1,100	1,037	905	847
Emergency Stop Torque	[Nm]	--	2,289	2,152	2,094	1,941
No Load Running Torque	[Nm]	*2	1.93	1.51	1.78	1.83
Nominal Input Speed	[rpm]	*1	3,000			
Maximum Continuous Input Speed	[rpm]	*1	4,000			
Maximum Cyclic Input Speed	[rpm]	--	6,000			
Maximum Radial Load	[N]	*3	21,500			
Maximum Axial Load	[N]	*4	16,000			
Moment of Inertia	[kgcm ²]	--	3.5	3.3	3	1.7
Efficiency	[%]	*5	83	78	73	66
Torsional Rigidity	[Nm/arcmin]	--	120			
Maximum Torsional Backlash (Standard)	[Arc-min]	--	≤ 10			
Maximum Torsional Backlash (Low)	[Arc-min]	--	≤ 5			
Maximum Torsional Backlash (Precision)	[Arc-min]	--	≤ 1			
Noise Level	dB [A]	*6	75			
Ambient Temperature	[°C]	--	-30 to +40			
Permitted Housing Temperature	[°C]	--	+80			
Protection Class	--	--	IP65			
Lubrication	--	--	Synthetic Oil			
Service Life	[Hours]	--	25,000			
Weight	[kg]	*7	48.4			

*1) Higher output torque is available at reduced speed. Contact us if you need to operate outside of these parameters

*2) Input torque with no load applied to the output shaft at 2,000 rpm

*3) The maximum radial load the gearbox can accept

*4) The maximum axial load the gearbox can accept

*5) The efficiency at the nominal output torque and input speed rating

*6) Measured with no load applied to the output shaft at 3,000 rpm and 1 meter distance

*7) Weight may vary slightly between models

EJL 125 1-Stage Specifications

Frame Size	125						
Ratio	Unit	Note	5.125	7.2	10.25	15.25	20.5
Nominal Output Torque	[Nm]	*1	716	742	725	625	877
Maximum Acceleration Torque	[Nm]	*1	1,181	1,224	1,196	1,031	1,447
Emergency Stop Torque	[Nm]	--	3,767	3,767	3,767	3,342	3,767
No Load Running Torque	[Nm]	*2	4.80	4.23	3.76	3.21	2.84
Nominal Input Speed	[rpm]	*1	3,000				
Maximum Continuous Input Speed	[rpm]	*1	4,000				
Maximum Cyclic Input Speed	[rpm]	--	6,000				
Maximum Radial Load	[N]	*3	26,000				
Maximum Axial Load	[N]	*4	22,000				
Moment of Inertia	[kgcm ²]	--	50	38	30.5	25	23.4
Efficiency	[%]	*5	95	95	94	91	89
Torsional Rigidity	[Nm/arcmin]	--	180				
Maximum Torsional Backlash (Standard)	[Arc-min]	--	≤ 5				
Maximum Torsional Backlash (Precision)	[Arc-min]	--	≤ 2				
Noise Level	dB [A]	*6	80				
Ambient Temperature	[°C]	--	-30 to +40				
Permitted Housing Temperature	[°C]	--	+80				
Protection Class	--	--	IP65				
Lubrication	--	--	Synthetic Oil				
Service Life	[Hours]	--	25,000				
Weight	[kg]	*7	97.5				

*1) Higher output torque is available at reduced speed. Contact us if you need to operate outside of these parameters

*2) Input torque with no load applied to the output shaft at 2,000 rpm

*3) The maximum radial load the gearbox can accept

*4) The maximum axial load the gearbox can accept

*5) The efficiency at the nominal output torque and input speed rating

*6) Measured with no load applied to the output shaft at 3,000 rpm and 1 meter distance

*7) Weight may vary slightly between models

EJL 125 1-Stage Specifications

Frame Size	125					
Ratio	Unit	Note	29.5	45	60	90
Nominal Output Torque	[Nm]	*1	731	952	815	680
Maximum Acceleration Torque	[Nm]	*1	1,206	1,571	1,345	1,122
Emergency Stop Torque	[Nm]	--	3,295	3,767	2,937	2,502
No Load Running Torque	[Nm]	*2	2.90	2.27	2.66	2.74
Nominal Input Speed	[rpm]	*1	3,000			
Maximum Continuous Input Speed	[rpm]	*1	4,000			
Maximum Cyclic Input Speed	[rpm]	--	6,000			
Maximum Radial Load	[N]	*3	26,000			
Maximum Axial Load	[N]	*4	22,000			
Moment of Inertia	[kgcm ²]	--	23.15	21	20	19
Efficiency	[%]	*5	85	80	74	64
Torsional Rigidity	[Nm/arcmin]	--	180			
Maximum Torsional Backlash (Standard)	[Arc-min]	--	≤ 5			
Maximum Torsional Backlash (Precision)	[Arc-min]	--	≤ 2			
Noise Level	dB [A]	*6	80			
Ambient Temperature	[°C]	--	-30 to +40			
Permitted Housing Temperature	[°C]	--	+80			
Protection Class	--	--	IP65			
Lubrication	--	--	Synthetic Oil			
Service Life	[Hours]	--	25,000			
Weight	[kg]	*7	97.5			

*1) Higher output torque is available at reduced speed. Contact us if you need to operate outside of these parameters

*2) Input torque with no load applied to the output shaft at 2,000 rpm

*3) The maximum radial load the gearbox can accept

*4) The maximum axial load the gearbox can accept

*5) The efficiency at the nominal output torque and input speed rating

*6) Measured with no load applied to the output shaft at 3,000 rpm and 1 meter distance

*7) Weight may vary slightly between models

EJL 160 1-Stage Specifications

Frame Size	160						
Ratio	Unit	Note	5.125	7.2	10.25	15.25	20.5
Nominal Output Torque	[Nm]	*1	1,648	1,569	1,650	1,443	1,856
Maximum Acceleration Torque	[Nm]	*1	2,719	2,589	2,723	2,381	3,062
Emergency Stop Torque	[Nm]	--	7,251	7,251	7,251	5,572	7,251
No Load Running Torque	[Nm]	*2	7.20	6.35	5.64	4.82	4.26
Nominal Input Speed	[rpm]	*1	2,000				
Maximum Continuous Input Speed	[rpm]	*1	4,000				
Maximum Cyclic Input Speed	[rpm]	--	6,000				
Maximum Radial Load	[N]	*3	34,100				
Maximum Axial Load	[N]	*4	34,000				
Moment of Inertia	[kgcm ²]	--	120	77	63	52.7	51.5
Efficiency	[%]	*5	96	95	94	92	90
Torsional Rigidity	[Nm/arcmin]	--	350				
Maximum Torsional Backlash (Standard)	[Arc-min]	--	≤ 5				
Maximum Torsional Backlash (Precision)	[Arc-min]	--	≤ 2				
Noise Level	dB [A]	*6	80				
Ambient Temperature	[°C]	--	-30 to +40				
Permitted Housing Temperature	[°C]	--	+80				
Protection Class	--	--	IP65				
Lubrication	--	--	Synthetic Oil				
Service Life	[Hours]	--	25,000				
Weight	[kg]	*7	172.3				

*1) Higher output torque is available at reduced speed. Contact us if you need to operate outside of these parameters

*2) Input torque with no load applied to the output shaft at 2,000 rpm

*3) The maximum radial load the gearbox can accept

*4) The maximum axial load the gearbox can accept

*5) The efficiency at the nominal output torque and input speed rating

*6) Measured with no load applied to the output shaft at 3,000 rpm and 1 meter distance

*7) Weight may vary slightly between models

EJL 160 1-Stage Specifications

Frame Size	160					
Ratio	Unit	Note	29.5	45	60	90
Nominal Output Torque	[Nm]	*1	1,535	2,211	1,723	1,489
Maximum Acceleration Torque	[Nm]	*1	2,533	3,648	2,843	2,457
Emergency Stop Torque	[Nm]	--	6,571	7,251	6,331	4,933
No Load Running Torque	[Nm]	*2	4.35	3.41	4.00	4.11
Nominal Input Speed	[rpm]	*1	2,000			
Maximum Continuous Input Speed	[rpm]	*1	4,000			
Maximum Cyclic Input Speed	[rpm]	--	6,000			
Maximum Radial Load	[N]	*3	34,100			
Maximum Axial Load	[N]	*4	34,000			
Moment of Inertia	[kgcm ²]	--	52.8	46.5	40	38
Efficiency	[%]	*5	86	81	76	67
Torsional Rigidity	[Nm/arcmin]	--	350			
Maximum Torsional Backlash (Standard)	[Arc-min]	--	≤ 5			
Maximum Torsional Backlash (Precision)	[Arc-min]	--	≤ 2			
Noise Level	dB [A]	*6	80			
Ambient Temperature	[°C]	--	-30 to +40			
Permitted Housing Temperature	[°C]	--	+80			
Protection Class	--	--	IP65			
Lubrication	--	--	Synthetic Oil			
Service Life	[Hours]	--	25,000			
Weight	[kg]	*7	172.3			

*1) Higher output torque is available at reduced speed. Contact us if you need to operate outside of these parameters

*2) Input torque with no load applied to the output shaft at 2,000 rpm

*3) The maximum radial load the gearbox can accept

*4) The maximum axial load the gearbox can accept

*5) The efficiency at the nominal output torque and input speed rating

*6) Measured with no load applied to the output shaft at 3,000 rpm and 1 meter distance

*7) Weight may vary slightly between models

EJL 200 1-Stage Specifications

Frame Size	200						
Ratio	Unit	Note	5.125	7.2	10.25	15.25	20.5
Nominal Output Torque	[Nm]	*1	2,954	3,042	2,946	2,540	3,538
Maximum Acceleration Torque	[Nm]	*1	4,874	5,019	4,861	4,191	5,838
Emergency Stop Torque	[Nm]	--	12,826	12,826	12,826	12,448	12,826
No Load Running Torque	[Nm]	*2	10.80	9.52	8.46	7.23	6.39
Nominal Input Speed	[rpm]	*1	2,000				
Maximum Continuous Input Speed	[rpm]	*1	4,000				
Maximum Cyclic Input Speed	[rpm]	--	6,000				
Maximum Radial Load	[N]	*3	71,700				
Maximum Axial Load	[N]	*4	71,000				
Moment of Inertia	[kgcm ²]	--	287	177	143	102	96
Efficiency	[%]	*5	96	96	95	93	91
Torsional Rigidity	[Nm/arcmin]	--	600				
Maximum Torsional Backlash (Standard)	[Arc-min]	--	≤ 5				
Maximum Torsional Backlash (Precision)	[Arc-min]	--	≤ 2				
Noise Level	dB [A]	*6	80				
Ambient Temperature	[°C]	--	-30 to +40				
Permitted Housing Temperature	[°C]	--	+80				
Protection Class	--	--	IP65				
Lubrication	--	--	Synthetic Oil				
Service Life	[Hours]	--	25,000				
Weight	[kg]	*7	369.68				

*1) Higher output torque is available at reduced speed. Contact us if you need to operate outside of these parameters

*2) Input torque with no load applied to the output shaft at 2,000 rpm

*3) The maximum radial load the gearbox can accept

*4) The maximum axial load the gearbox can accept

*5) The efficiency at the nominal output torque and input speed rating

*6) Measured with no load applied to the output shaft at 3,000 rpm and 1 meter distance

*7) Weight may vary slightly between models

EJL 200 1-Stage Specifications

Frame Size	200					
Ratio	Unit	Note	29.5	45	60	90
Nominal Output Torque	[Nm]	*1	2,925	3,788	3,159	2,641
Maximum Acceleration Torque	[Nm]	*1	4,826	6,250	5,212	4,358
Emergency Stop Torque	[Nm]	--	12,277	12,826	11,674	9,323
No Load Running Torque	[Nm]	*2	6.52	5.11	5.99	6.17
Nominal Input Speed	[rpm]	*1	2,000			
Maximum Continuous Input Speed	[rpm]	*1	4,000			
Maximum Cyclic Input Speed	[rpm]	--	6,000			
Maximum Radial Load	[N]	*3	71,700			
Maximum Axial Load	[N]	*4	71,000			
Moment of Inertia	[kgcm ²]	--	99	82.5	71	69
Efficiency	[%]	*5	87	83	77	69
Torsional Rigidity	[Nm/arcmin]	--	600			
Maximum Torsional Backlash (Standard)	[Arc-min]	--	≤ 5			
Maximum Torsional Backlash (Precision)	[Arc-min]	--	≤ 2			
Noise Level	dB [A]	*6	80			
Ambient Temperature	[°C]	--	-30 to +40			
Permitted Housing Temperature	[°C]	--	+80			
Protection Class	--	--	IP65			
Lubrication	--	--	Synthetic Oil			
Service Life	[Hours]	--	25,000			
Weight	[kg]	*7	369.68			

*1) Higher output torque is available at reduced speed. Contact us if you need to operate outside of these parameters

*2) Input torque with no load applied to the output shaft at 2,000 rpm

*3) The maximum radial load the gearbox can accept

*4) The maximum axial load the gearbox can accept

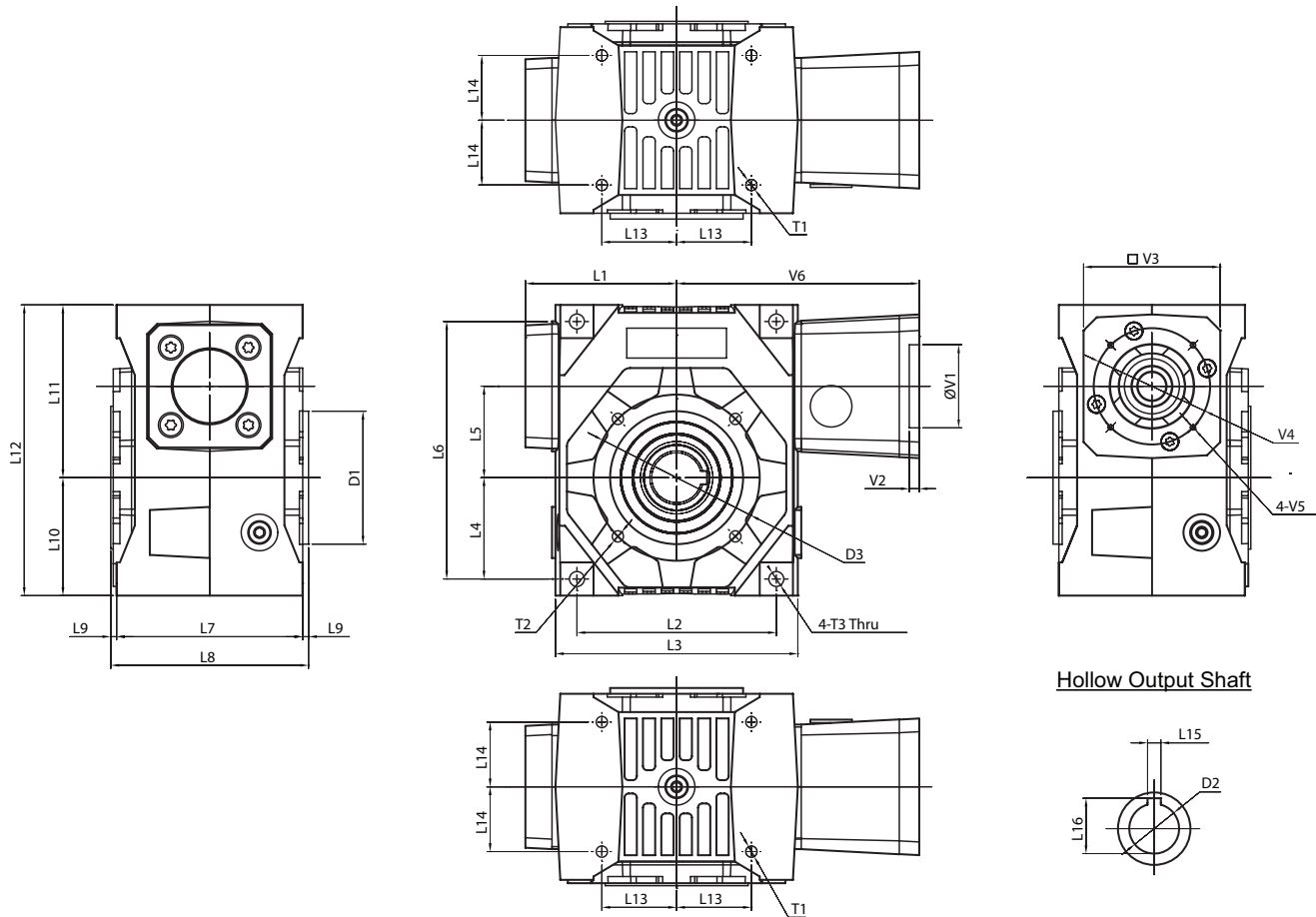
*5) The efficiency at the nominal output torque and input speed rating

*6) Measured with no load applied to the output shaft at 3,000 rpm and 1 meter distance

*7) Weight may vary slightly between models

EJL SERIES Right-angle Worm

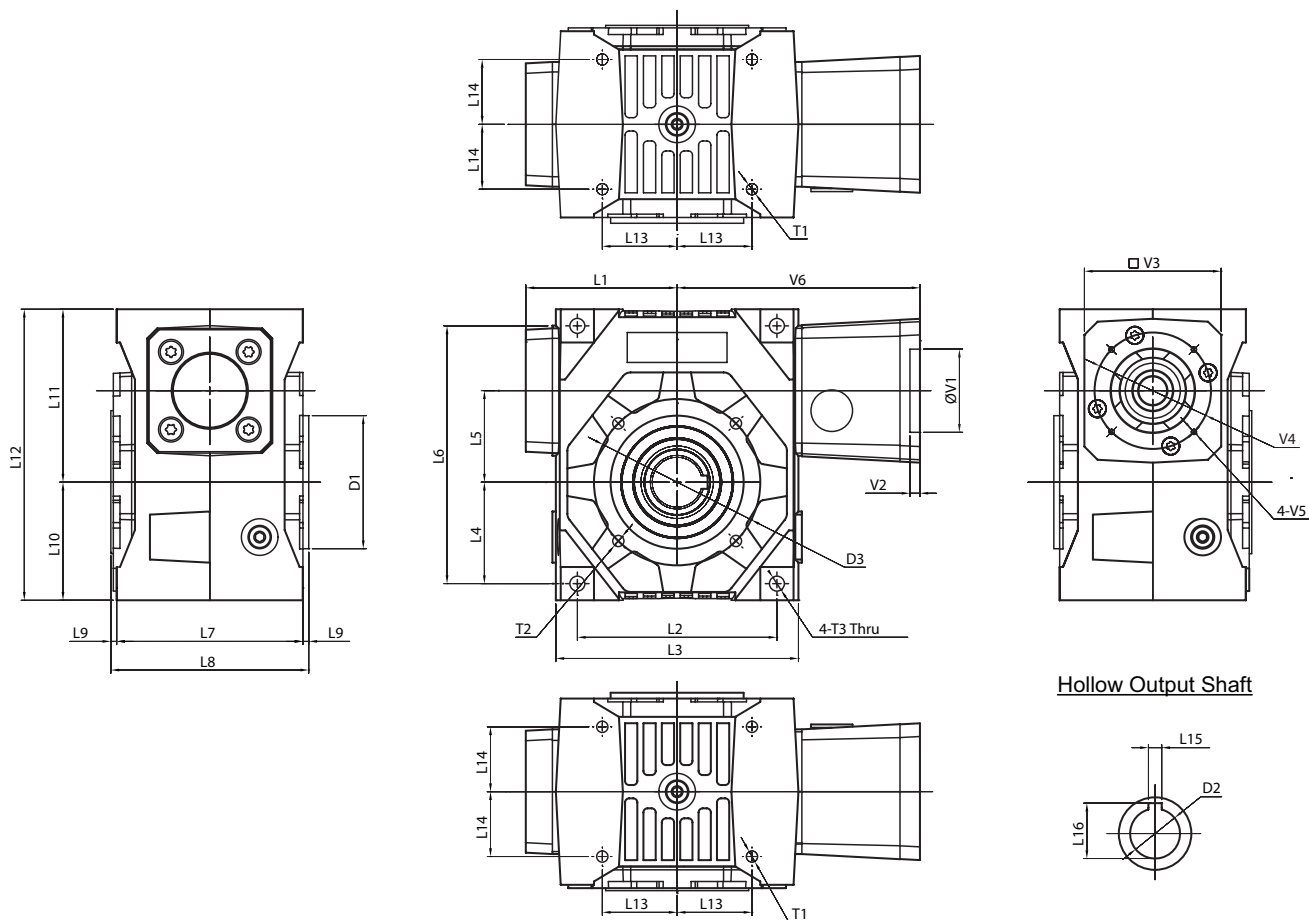
EJL Dimensions – Hollow Output Shaft with Keyway



Hollow Output Shaft

Frame Size	Unit	EJL25	EJL35	EJL45	EJL55
L1	[mm]	49	70	83.5	91
L2	[mm]	66	86	108	120
L3	[mm]	82	107	132	146
L4	[mm]	33	44.5	53	61
L5	[mm]	25	35	45	55
L6	[mm]	84	110	135	155
L7	[mm]	64	86	100	112
L8	[mm]	70	92	106	119
L9	[mm]	3	3	3	3.5
L10	[mm]	39	52.5	62	71
L11	[mm]	57	73.5	91	104
L12	[mm]	96	126	153	175
L13	[mm]	24.75	31	40.5	45
L14	[mm]	22	28	34	39
L15	[mm]	5	5	8	8
L16	[mm]	16.3	18.3	28.3	33.3
D1 (j7)	[mm]	55	50	70	80
D2 (H7)	[mm]	14	16	25	30
D3	[mm]	65	65	85	100
T1	[mm]	4-M5	4-M6	4-M8	4-M8
T2	[mm]	4-M5	4-M6	4-M8	4-M8
T3	[mm]	6.2	7	9	9
V1 ~ V6	Motor attachment dimensions are made to fit your servo motor.				

EJL Dimensions – Hollow Output Shaft with Keyway

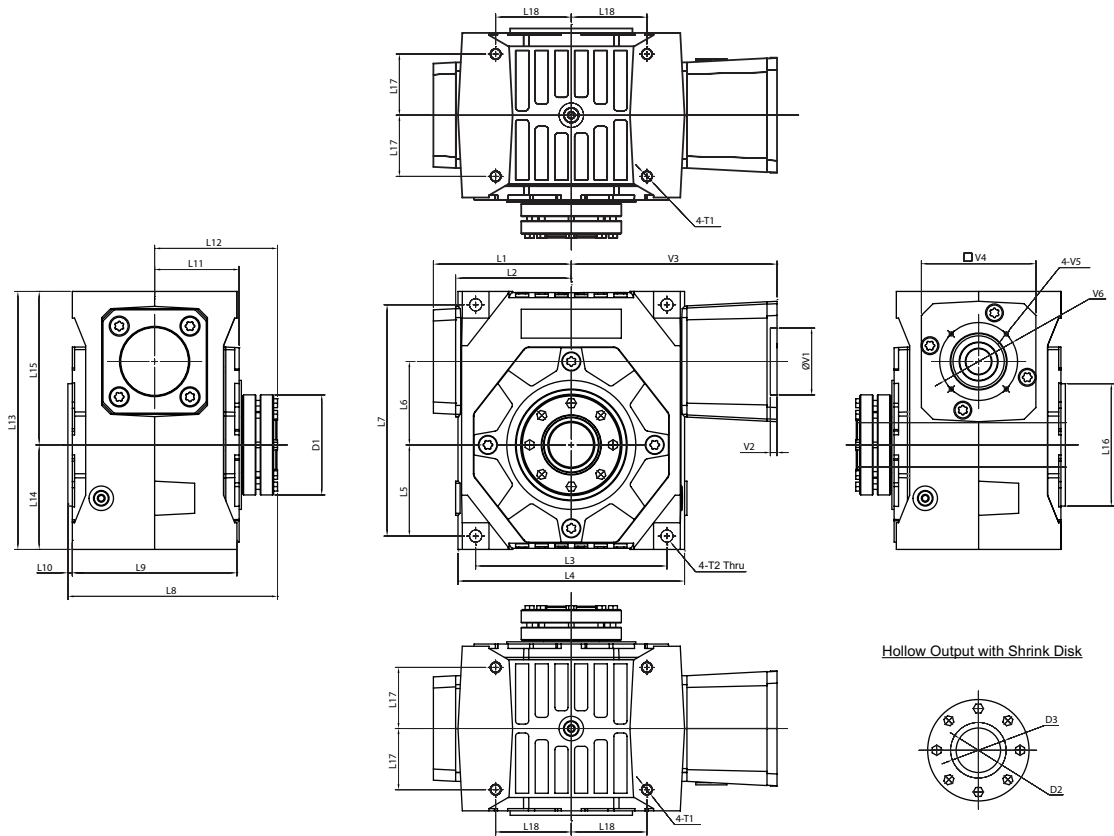


Hollow Output Shaft

Frame Size	Unit	EJL63	EJL75	EJL90	EJL110
L1	[mm]	101	124	136.5	152
L2	[mm]	134	172	186	220
L3	[mm]	165	204	225	260
L4	[mm]	66	82	91	108
L5	[mm]	63	75	90	110
L6	[mm]	173	208	234	276
L7	[mm]	127	148	170	182
L8	[mm]	134	156	178	192
L9	[mm]	3.5	4	4	5
L10	[mm]	78	94	106	123
L11	[mm]	119	138	158	183
L12	[mm]	197	232	264	306
L13	[mm]	49	68	70.5	87.5
L14	[mm]	45.5	55	65	70
L15	[mm]	10	12	14	18
L16	[mm]	38.3	43.3	53.8	64.4
D1 (j7)	[mm]	95	110	130	165
D2 (H7)	[mm]	35	40	50	60
D3	[mm]	115	130	165	200
T1	[mm]	4-M10	4-M10	4-M12	8-M12
T2	[mm]	4-M10	4-M10	4-M12	8-M12
T3	[mm]	11	11	13	13
V1 ~ V6	Motor attachment dimensions are made to fit your servo motor.				

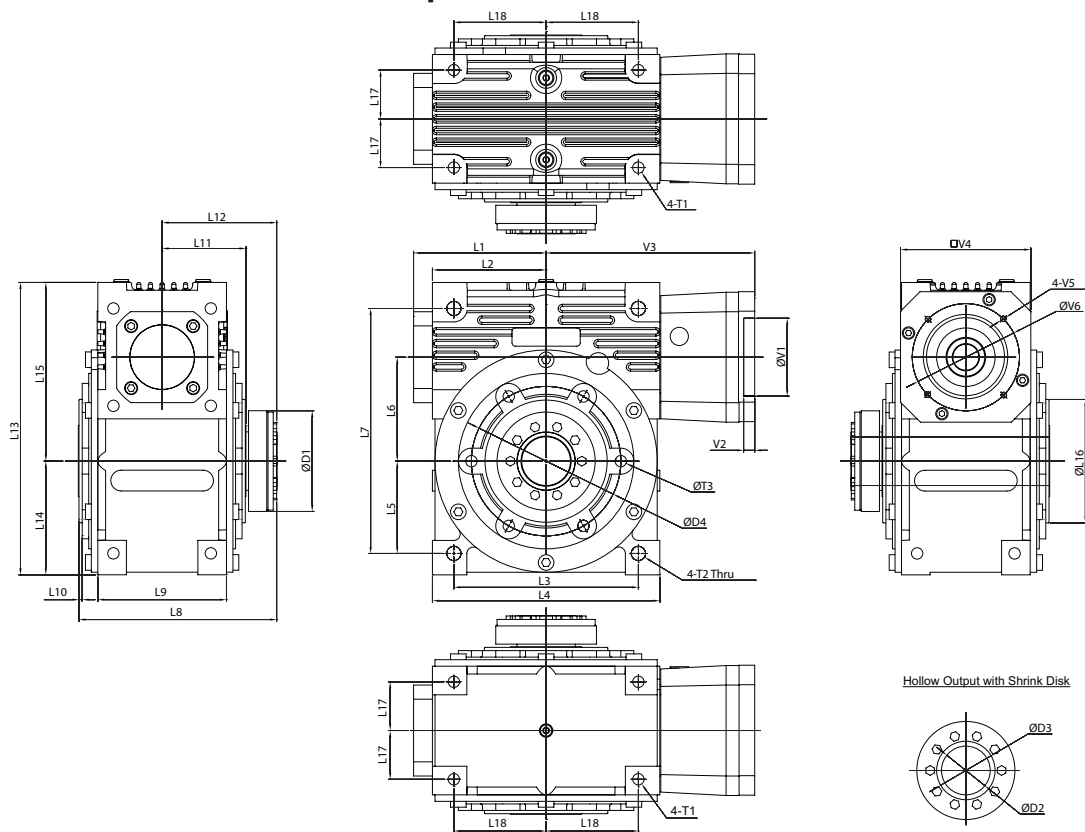
EJL SERIES Right-angle Worm

EJL Dimensions – Shrink Disc Hollow Output Shaft



Frame Size	Unit	EJL35	EJL45	EJL55	EJL63	EJL75	EJL90	EJL110
L1	[mm]	70	83.5	91	101	124	136.5	152
L2	[mm]	55	67.5	75	84	104	114.5	132
L3	[mm]	86	108	120	134	172	186	220
L4	[mm]	107	132	146	165	204	225	260
L5	[mm]	44.5	53	61	66	82	91	108
L6	[mm]	35	45	55	63	75	90	110
L7	[mm]	110	135	155	173	208	234	276
L8	[mm]	117	132	150	165	188	213	229
L9	[mm]	86	100	112	127	148	170	182
L10	[mm]	3	3	3.5	3.5	4	4	5
L11	[mm]	45	52	58	65.5	76	88	94
L12	[mm]	70.5	79.5	90.5	98	110	124	133
L13	[mm]	126	153	175	197	232	264	306
L14	[mm]	52.5	62	71	78	94	106	123
L15	[mm]	73.5	91	104	119	138	158	183
L16	[mm]	50	70	80	95	110	130	165
L17	[mm]	28	34	39	45.5	55	65	70
L18	[mm]	31	40.5	45	49	68	70.5	87.5
D1	[mm]	50	60	72	80	90	115	145
D2 (H7)	[mm]	20	25	30	35	40	50	60
D3	[mm]	24	30	36	44	50	68	80
T1	[mm]	M6	M8	M8	M10	M10	M12	M12
T2	[mm]	7	9	9	11	11	13	13
V1 ~ V6	Motor attachment dimensions are made to fit your servo motor.							

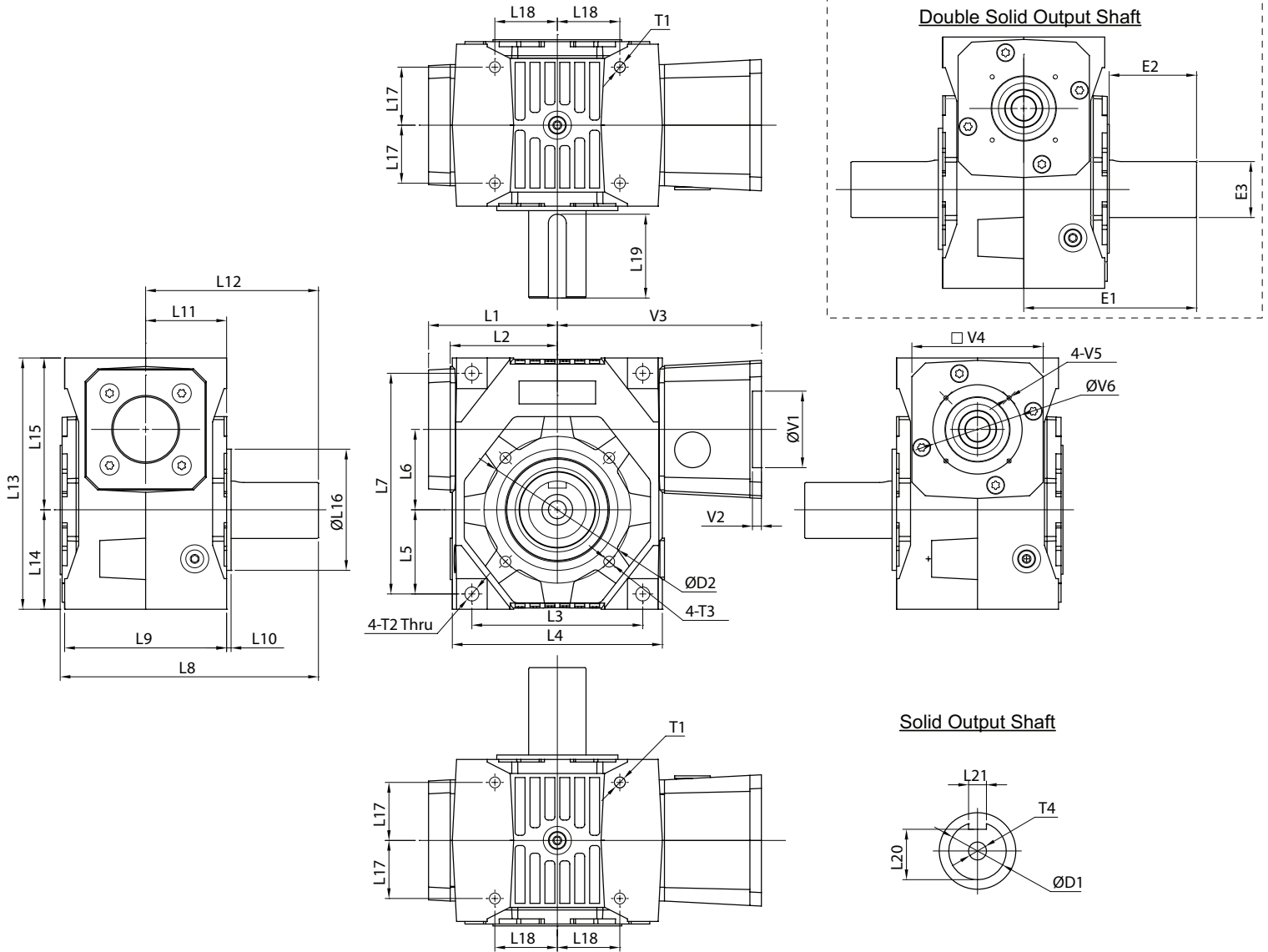
EJL Dimensions – Shrink Disc Hollow Output Shaft



Frame Size	Unit	EJL125	EJL160	EJL200
L1	[mm]	163	204	251
L2	[mm]	135	175	216
L3	[mm]	214	284	342.5
L4	[mm]	270	346	432
L5	[mm]	107	142	171
L6	[mm]	125	160	200
L7	[mm]	302	377	483
L8	[mm]	274	305	456
L9	[mm]	180	198	288
L10	[mm]	4	5	5
L11	[mm]	117	129	192
L12	[mm]	157	177	264
L13	[mm]	360	450	576
L14	[mm]	135	175	216
L15	[mm]	225	275	360
L16	[mm]	160	190	250
L17	[mm]	70	75	112
L18	[mm]	107	142	171.25
D1	[mm]	145	155	230
D2 (H7)	[mm]	65	75	100
D3	[mm]	80	90	140
D4	[mm]	185	230	300
T1	[mm]	M16	M20	M20
T2	[mm]	17	22	28
T3	[mm]	6-M16	6-M20	8-M20
V1 ~ V6	Motor attachment dimensions are made to fit your servo motor.			

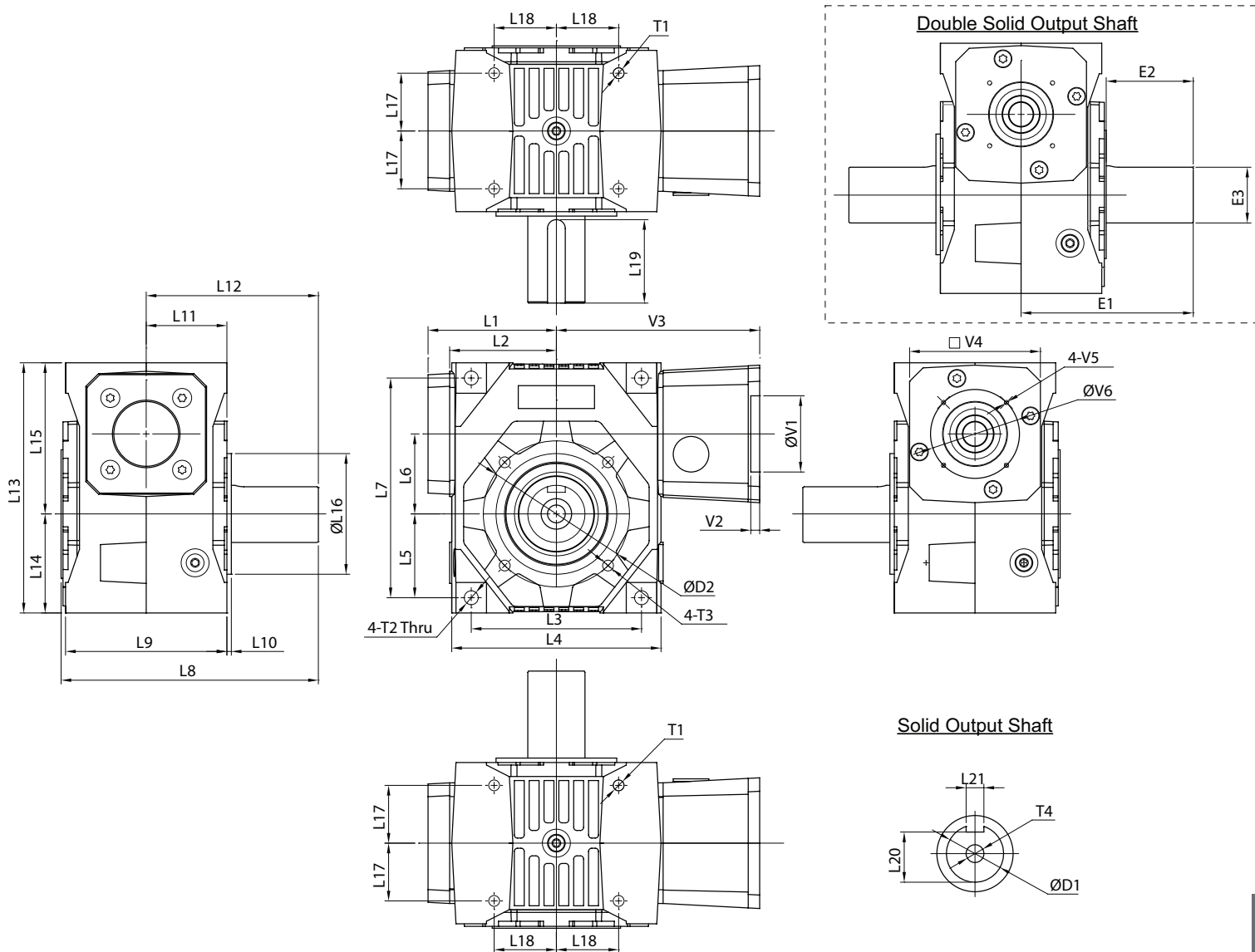
EJL SERIES Right-angle Worm

EJL Dimensions – Solid Output Shaft - Single and Double



Frame Size	Unit	EJL35	EJL45	EJL55	EJL63	EJL75	EJL90	EJL110
L1	[mm]	70	83.5	91	101	124	136.5	152
L2	[mm]	55	67.5	75	84	104	114.5	132
L3	[mm]	86	108	120	134	172	186	220
L4	[mm]	107	132	146	165	204	225	260
L5	[mm]	44.5	53	61	66	82	91	108
L6	[mm]	35	45	55	63	75	90	110
L7	[mm]	110	135	155	173	208	234	276
L8	[mm]	129	160	178	203	229	276	304
L9	[mm]	86	100	112	127	148	170	182
L10	[mm]	3.0	3.0	3.5	3.5	4	4	5
L11	[mm]	45	50	58	63.5	74	85	91
L12	[mm]	83	107	118	135.5	151	187	208
L13	[mm]	126	153	175	197	232	264	306
L14	[mm]	52.5	62	71	78	94	106	123
L15	[mm]	73.5	91	104	119	138	158	183

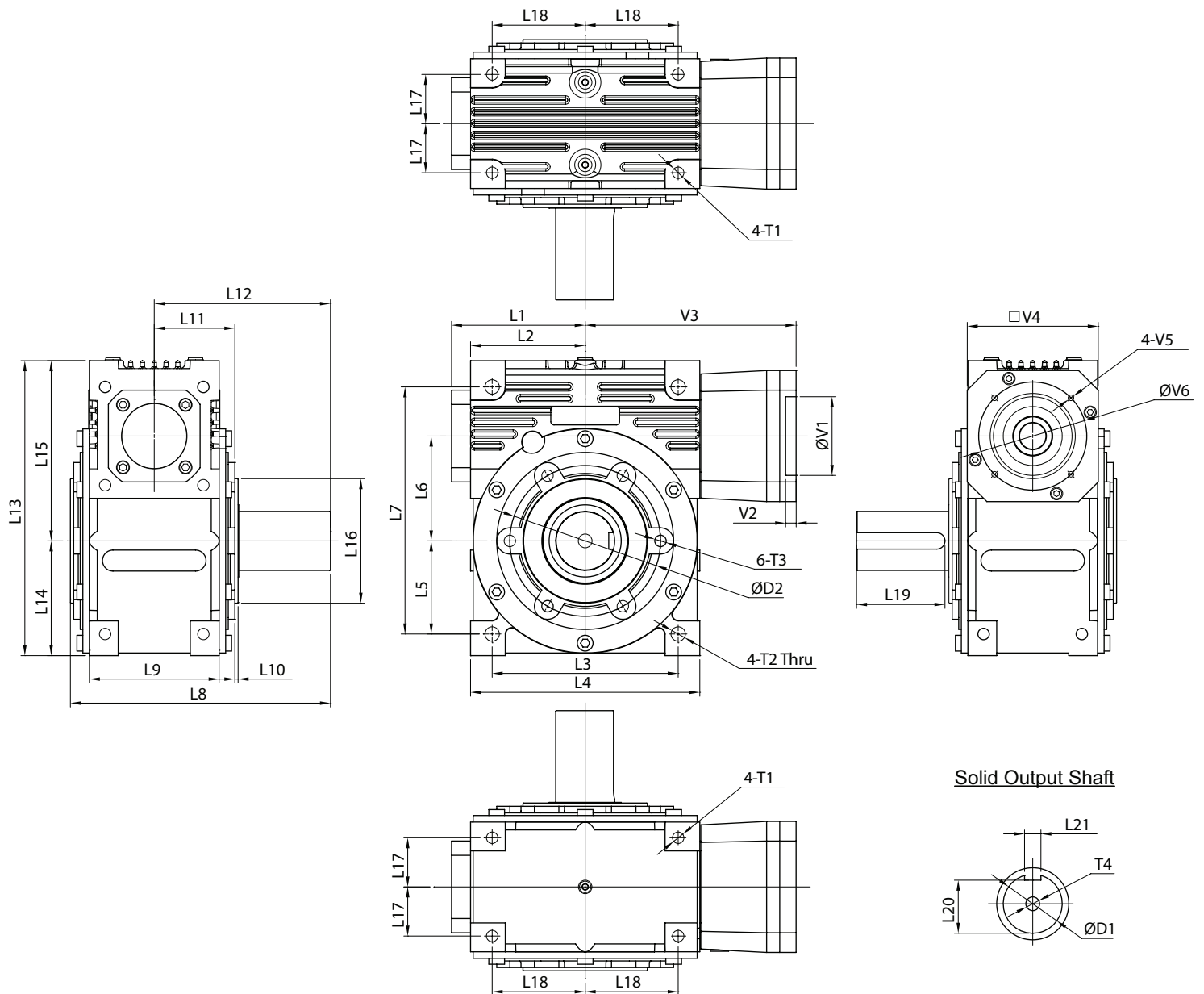
EJL Dimensions – Solid Output Shaft - Single and Double



Frame Size	Unit	EJL35	EJL45	EJL55	EJL63	EJL75	EJL90	EJL110
L16 (j7)	[mm]	50	70	80	95	110	130	165
L17	[mm]	28	34	39	45.5	55	65	70
L18	[mm]	31	40.5	45	49	68	70.5	87.5
L19	[mm]	35	50	55	65	70	95.5	110
L20	[mm]	21	30	35	39.5	44.5	58.0	67.5
L21	[mm]	8	10	12	14	14	18	20
D1 (h6)	[mm]	25	35	40	45	50	65	75
D2	[mm]	65	85	100	115	130	165	200
T1	[mm]	M6	M8	M8	M10	M10	M12	M12
T2	[mm]	7	9	9	11	11	13	13
T3	[mm]	M6	M8	M8	M10	4-M10	4-M12	8-M12
T4	[mm]	M10	M12	M16	M16	M16	M20	M20
E1	[mm]	83	107	118	135.5	151	187	208
E2	[mm]	38(*)	55(*)	60(*)	70	75	100	115
E3 (h6)	[mm]	25	35	40	45	50	65	75
V1 ~ V6	Motor attachment dimensions are made to fit your servo motor.							

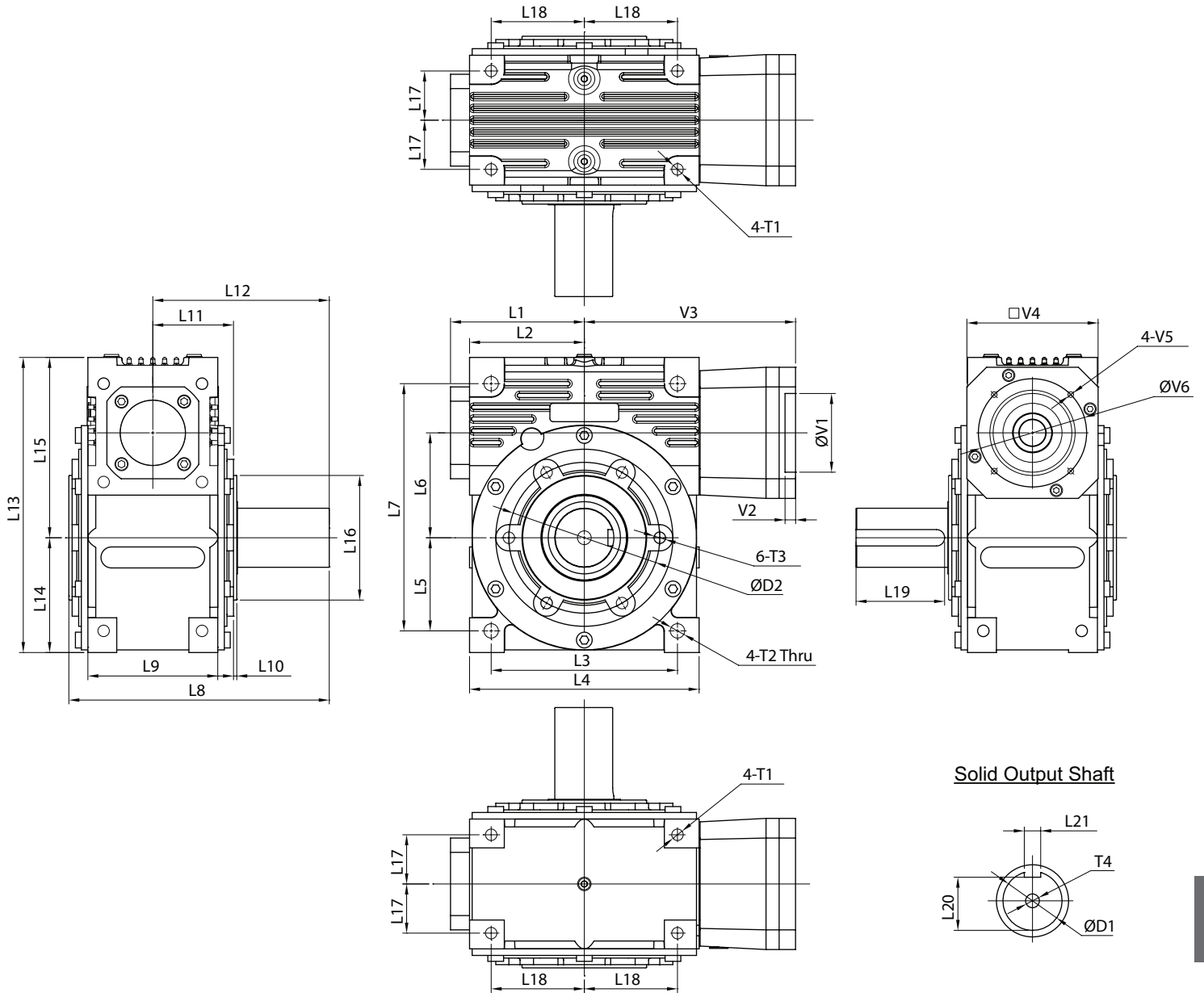
EJL SERIES Right-angle Worm

EJL Dimensions – Solid Output Shaft - Single Only



Frame Size	Unit	EJL125	EJL160	EJL200
L1	[mm]	163	204	251
L2	[mm]	135	175	216
L3	[mm]	214	284	342.5
L4	[mm]	270	350	432
L5	[mm]	107	142	171
L6	[mm]	125	160	200
L7	[mm]	302	377	483
L8	[mm]	348	397	551
L9	[mm]	180	198	288
L10	[mm]	4	5	5
L11	[mm]	111	123	187
L12	[mm]	233	269	359
L13	[mm]	360	450	576
L14	[mm]	135	175	216

EJL Dimensions – Solid Output Shaft - Single Only

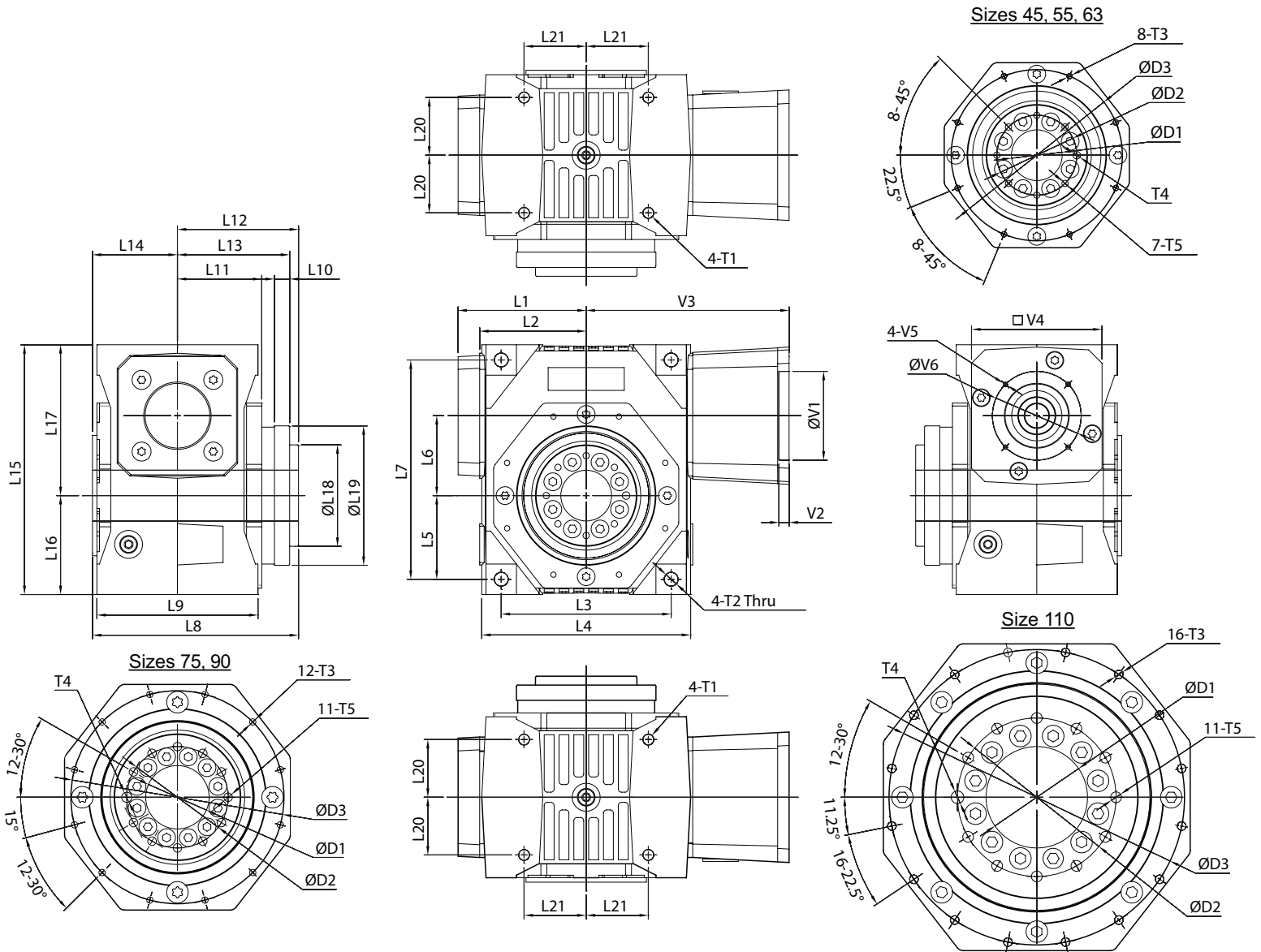


Solid Output Shaft

Frame Size	Unit	EJL125	EJL160	EJL200
L15	[mm]	225	275	360
L16 (j7)	[mm]	160	190	250
L17	[mm]	70	75	112
L18	[mm]	107	142	171.25
L19	[mm]	111	135	164
L20	[mm]	67.5	81.0	109.0
L21	[mm]	20.0	25.0	32.0
D1 (h6)	[mm]	75	90	120
D2	[mm]	185	230	300
T1	[mm]	M16	M20	M20
T2	[mm]	17	22	28
T3	[mm]	M16	M20	M20
T4	[mm]	M20	M24	M24
V1 ~ V6	Motor attachment dimensions are made to fit your servo motor.			

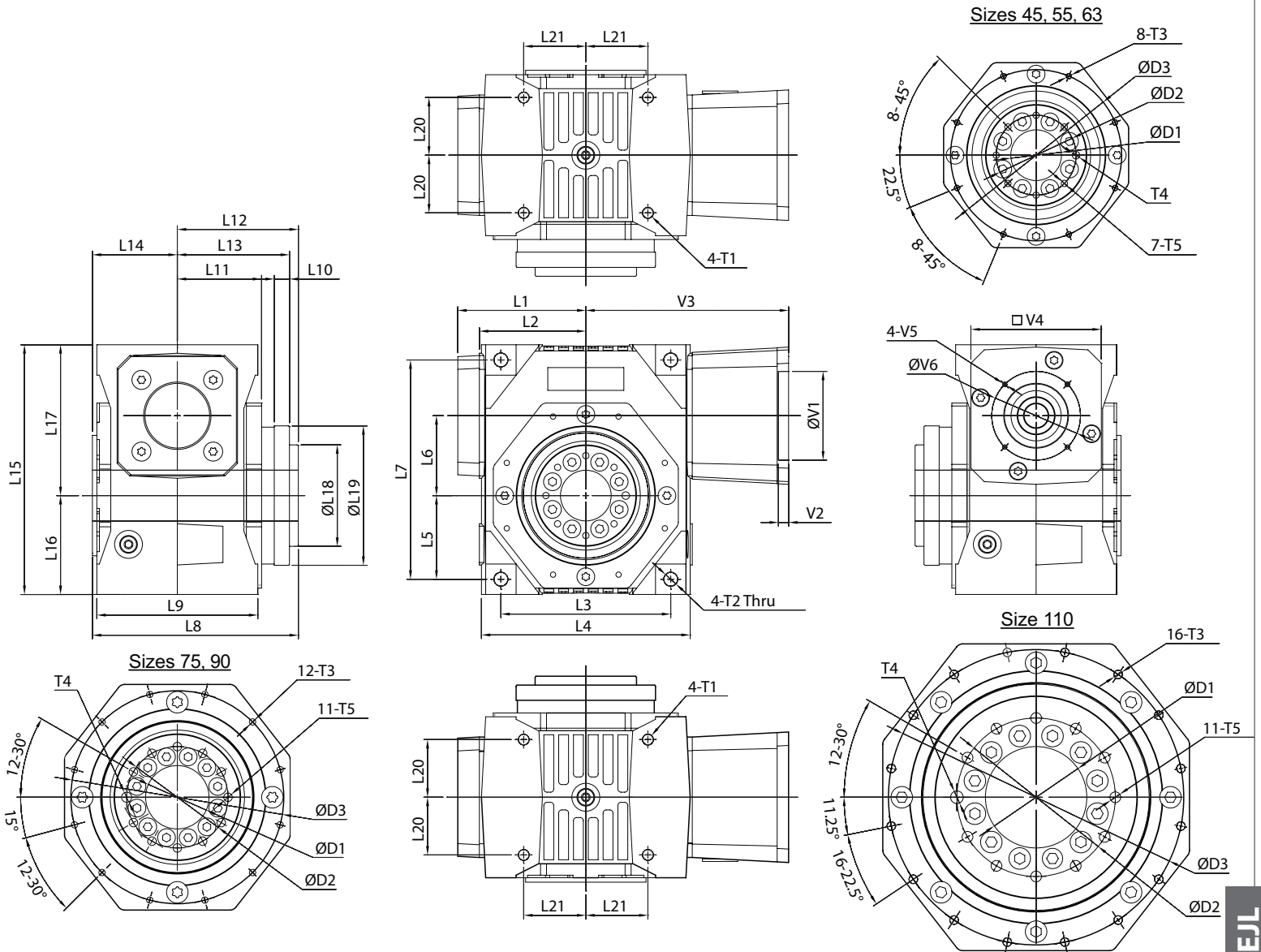
EJL SERIES Right-angle Worm

EJL Dimensions – Robot Flange



Frame Size	Unit	EJL45	EJL55	EJL63	EJL75	EJL90	EJL110
L1	[mm]	83.5	91.0	101.0	124.0	136.5	152.0
L2	[mm]	67.5	75.0	84.0	104.0	114.5	132.0
L3	[mm]	108	120	134	172	186	220
L4	[mm]	132	146	165	204	225	260
L5	[mm]	53	61	66	82	91	108
L6	[mm]	45	55	63	75	90	110
L7	[mm]	135	155	173	208	234	276
L8	[mm]	133.0	148.5	162.5	195	227	246
L9	[mm]	100	112	127	148	170	182
L10	[mm]	10	12	12	15	18	22
L11	[mm]	54.0	59.0	66.5	79	93	100
L12	[mm]	80.0	89.0	95.5	117	138	150
L13	[mm]	74.0	82.0	88.5	110	129	140
L14	[mm]	53.0	59.5	67.0	78	89	96
L15	[mm]	153	175	197	232	264	306

EJL Dimensions – Robot Flange



Frame Size	Unit	EJL45	EJL55	EJL63	EJL75	EJL90	EJL110
L16	[mm]	62	71	78	94	106	123
L17	[mm]	91	104	119	138	158	183
L18 (h7)	[mm]	50	63	80	100	125	160
L19 (h7)	[mm]	80	90	110	140	165	200
L20	[mm]	34.0	39.0	45.5	55	65	70
L21	[mm]	40.5	45.0	49.0	68	71	88
D1 (H7)	[mm]	25.0	31.5	40.0	50	63	80
D2	[mm]	40	50	63	80	100	125
D3	[mm]	100	109	135	168	190	233
T1	[mm]	M8	M8	M10	M10	M12	M12
T2	[mm]	9	9	11	11	13	13
T3	[mm]	M5-12 Depth	M5-12 Depth	M5-12 Depth	M6-15 Depth	M8-18 Depth	M8-19 Depth
T4 (H7)	[mm]	6	6	6	8	8	10
T5	[mm]	M6-11 Depth	M6-11 Depth	M6-11 Depth	M8-15 Depth	M8-15 Depth	M10-15 Depth
V1 ~ V6	Motor attachment dimensions are made to fit your servo motor.						