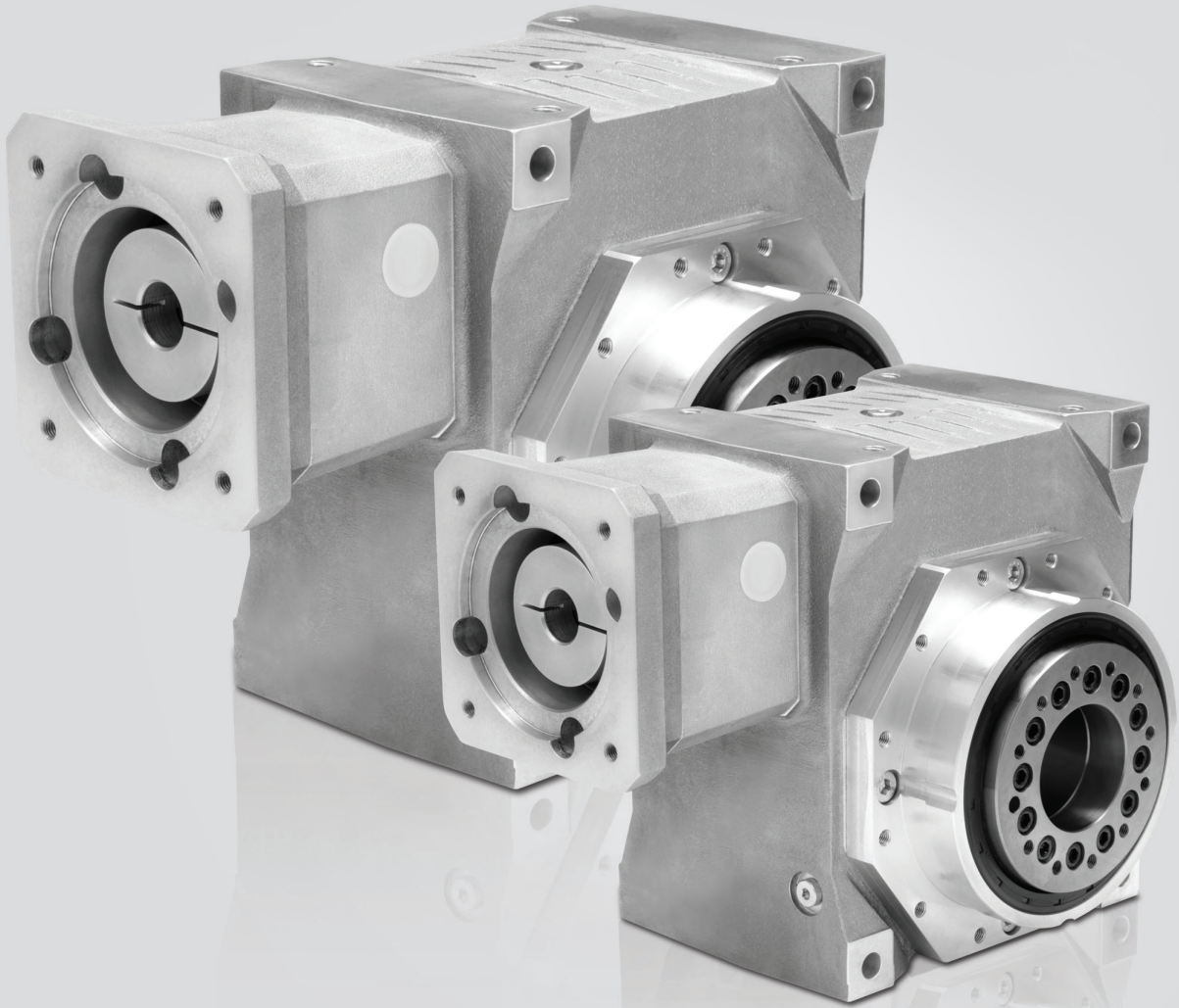


EJL SERIES

The EJL series is the perfect option for dynamic servo applications requiring high accuracy in a cost-effective package. The EJL series is available in 3 backlash levels, as low as 1 arc-min, to satisfy a variety of applications. Output options include single and dual shaft, hollow bore with keyway, hollow bore with shrink disc and robotic ISO flange. EJL is available in ratios as high as 90:1 in a single stage and maximum acceleration torque as high as 6250Nm.

Hardened and ground worms and bronze alloy wheels deliver high torque, smooth operation, and superior shock load absorption. Oversized taper roller bearings accommodate high radial forces. A unique 3 bearing arrangement maintains proper worm bearing preload over all allowable temperature ranges.

	Relative Cost	Load Capacity	Duty Cycle	Positional Accuracy
Optimal	Light	Light	Light	Light
Exceptional	Light	Light	Light	Light
Suitable	Light	Light	Light	Light

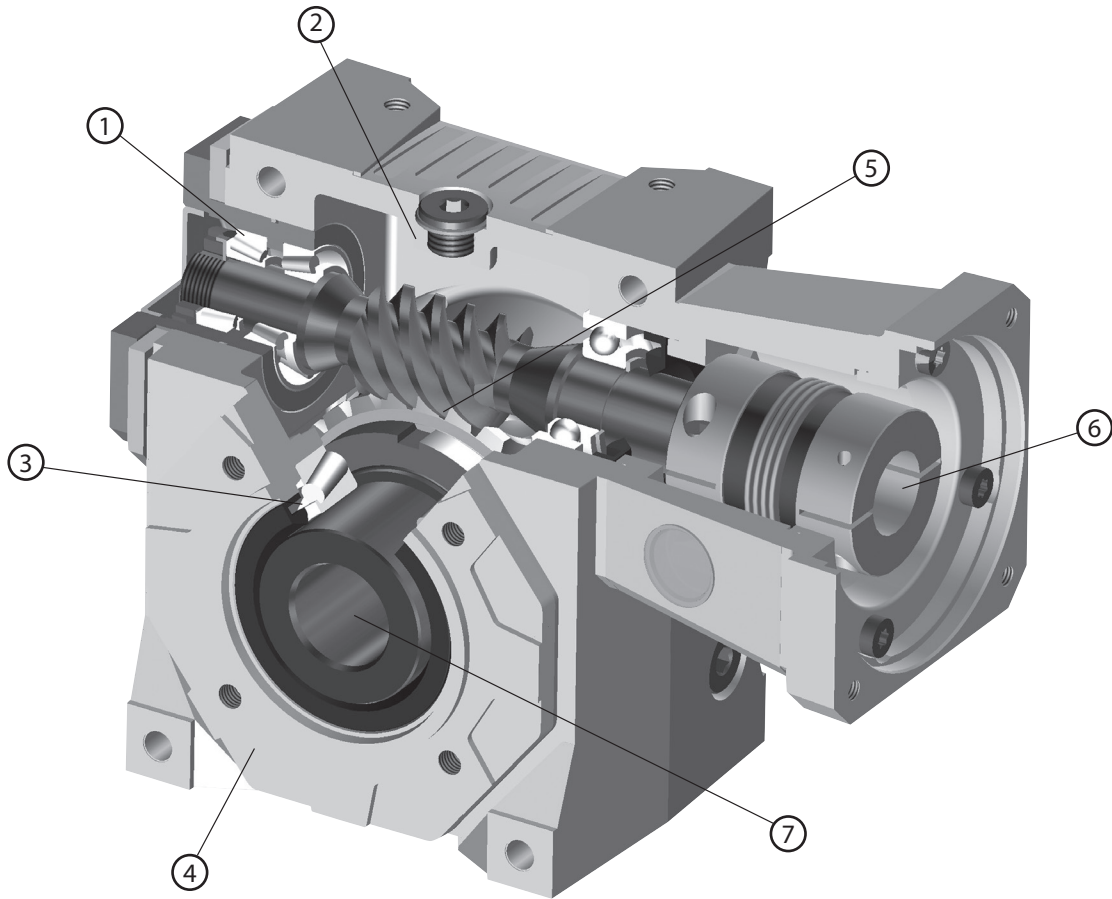


EJL SERIES

- 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

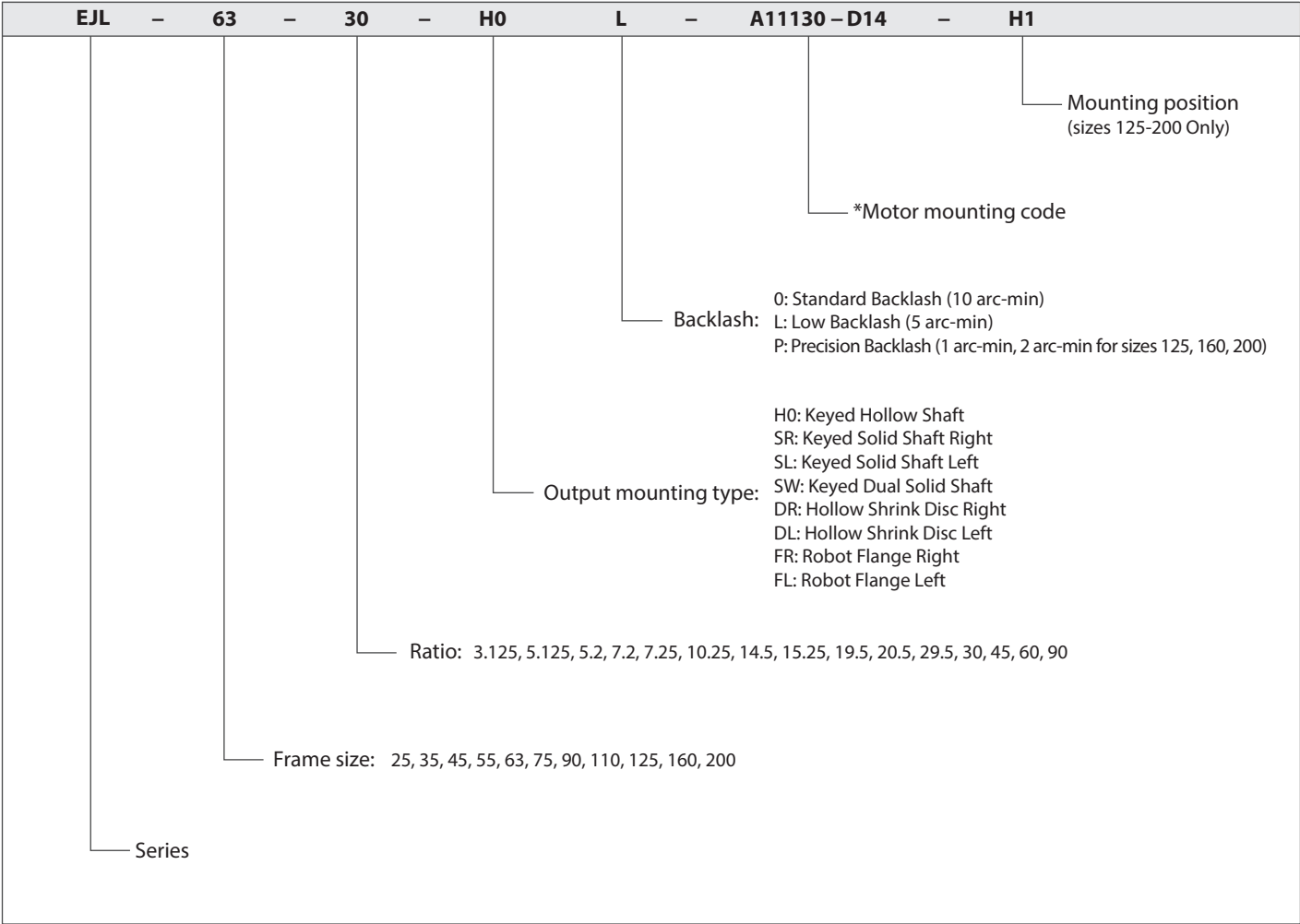
EJL SERIES Right-angle Worm

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 +90				
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 +90			
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 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

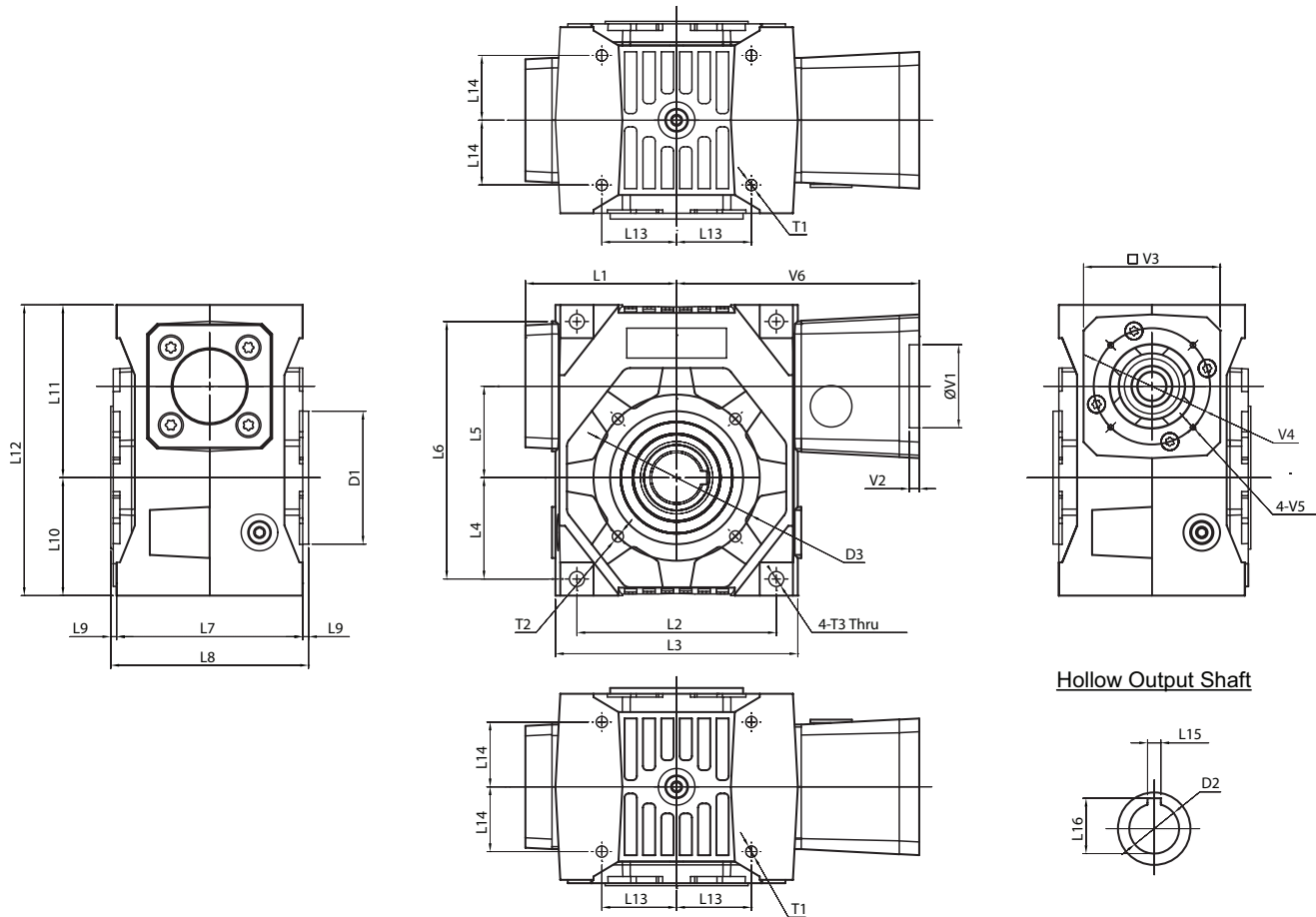
*5) The efficiency at the nominal output torque and input speed rating

*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

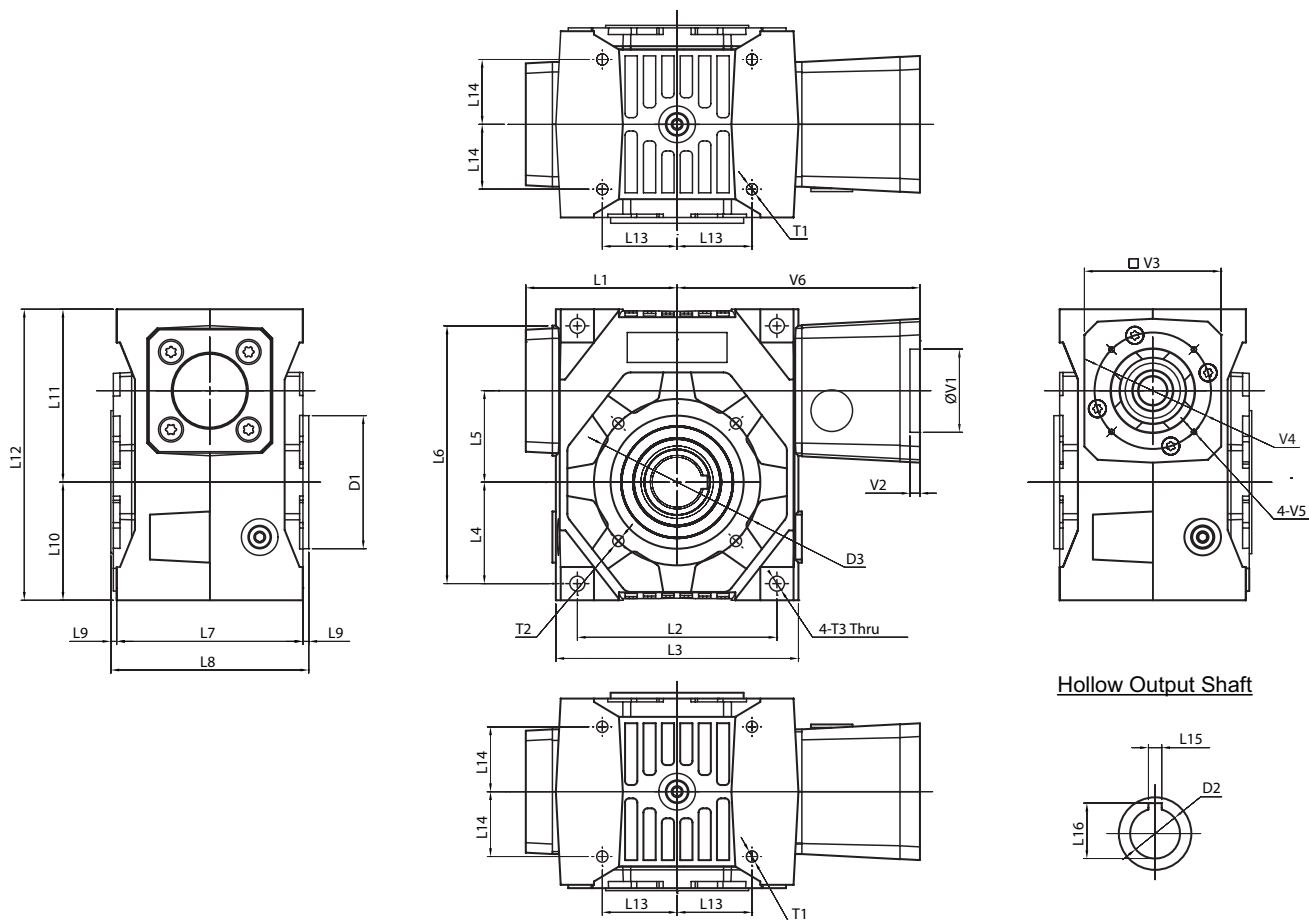
EJL Dimensions – Hollow Output Shaft with Keyway



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.				

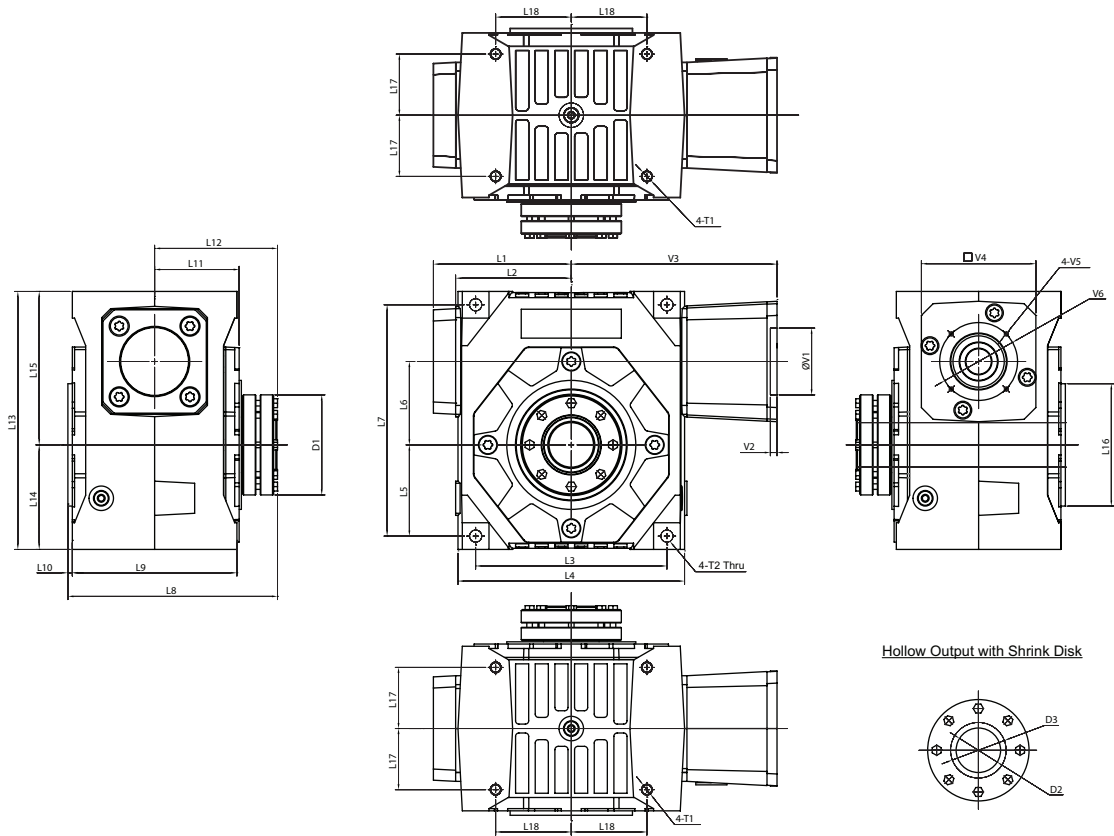
EJL Dimensions – Hollow Output Shaft with Keyway



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.				

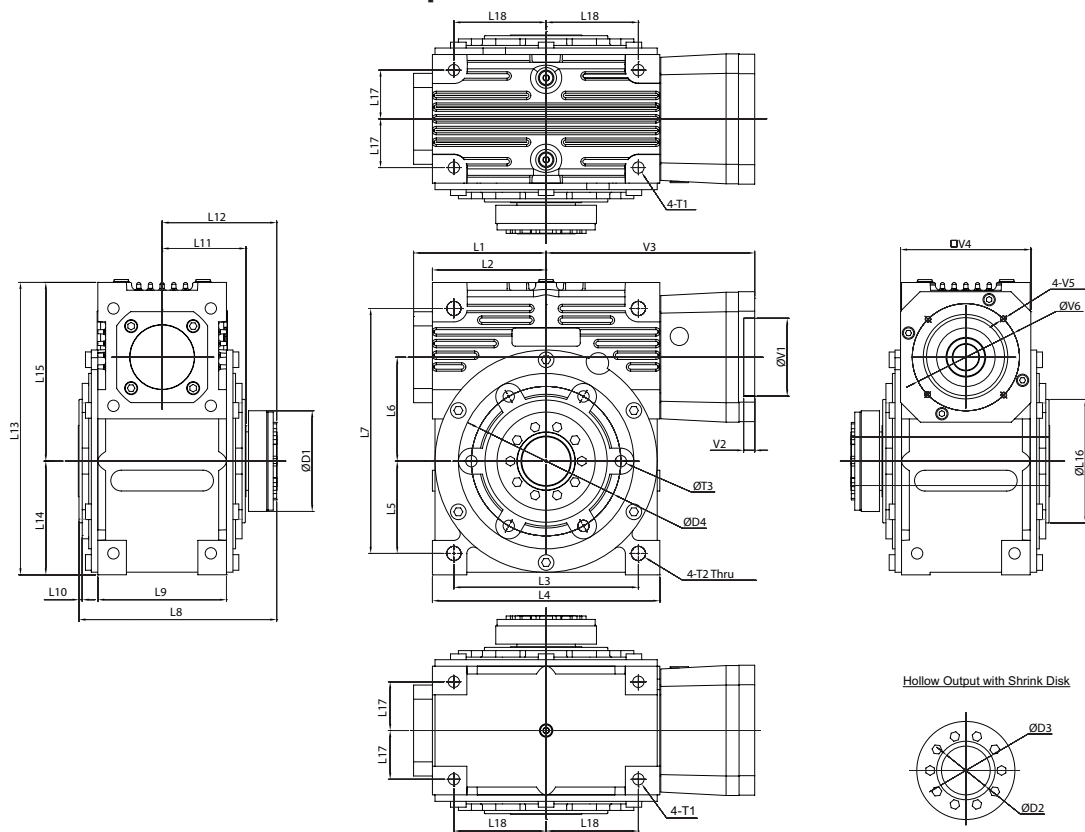
EJL SERIES Right-angle Worm

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.						

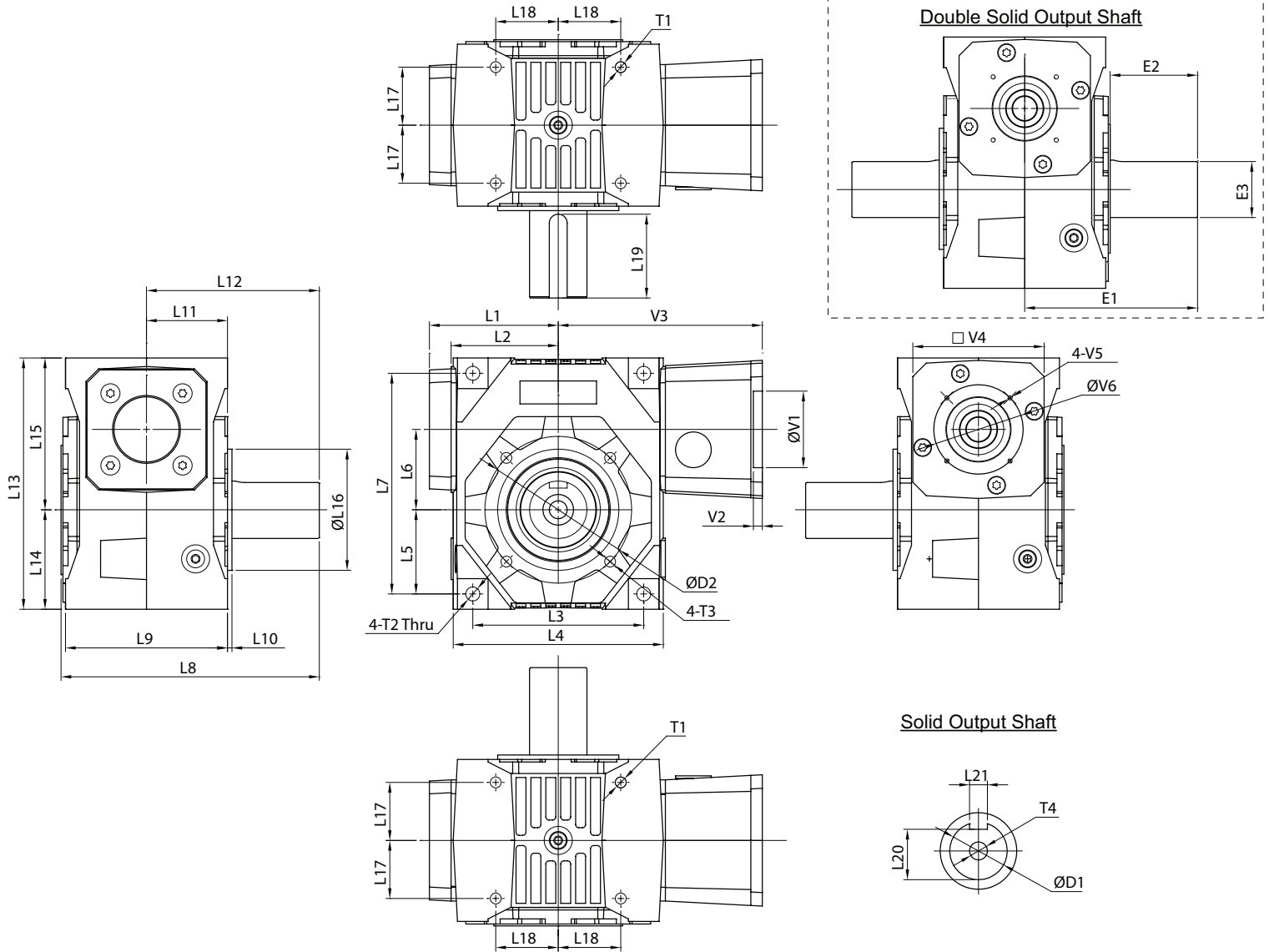
EJL Dimensions – Shrink Disc Hollow Output Shaft



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.			

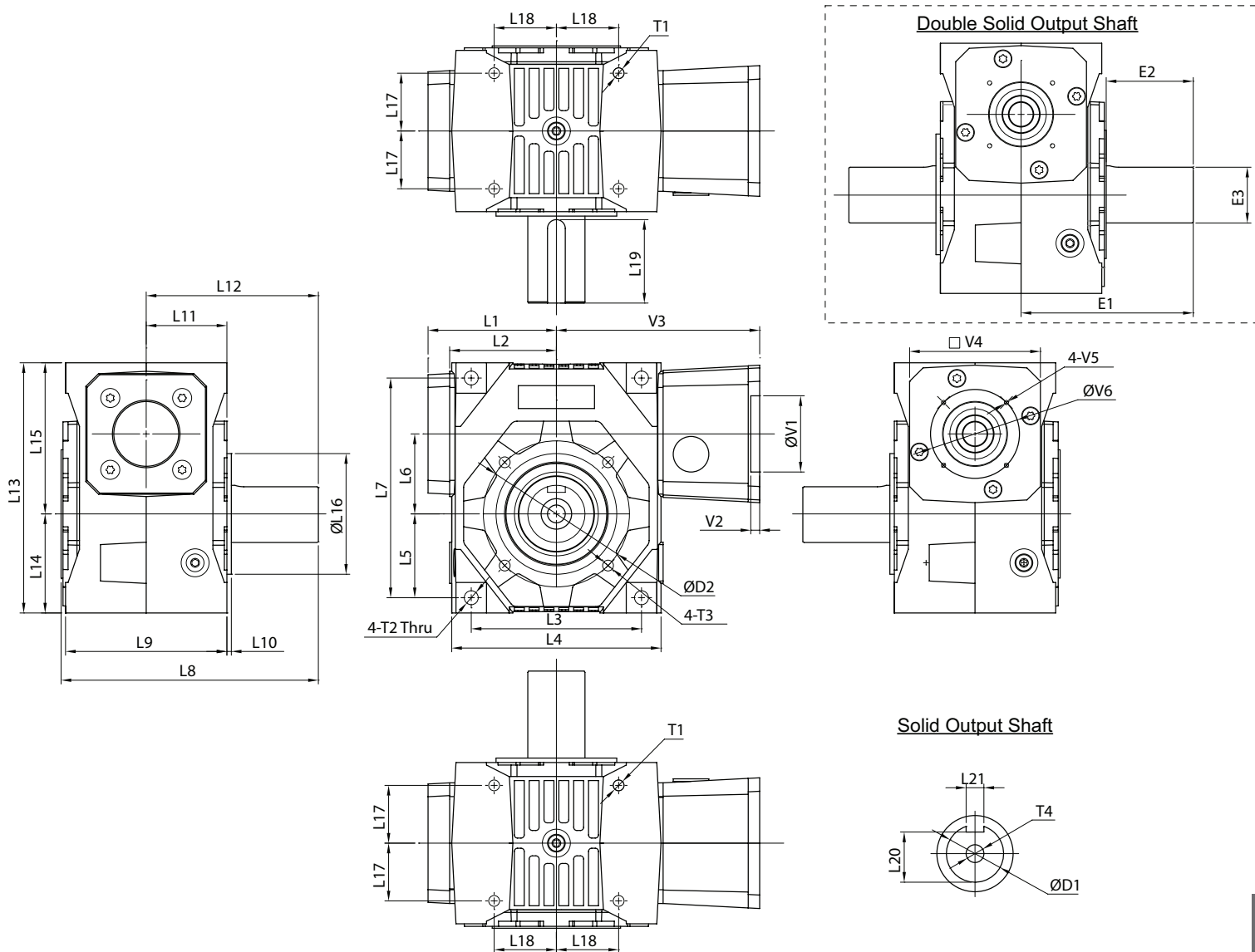
EJL SERIES Right-angle Worm

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

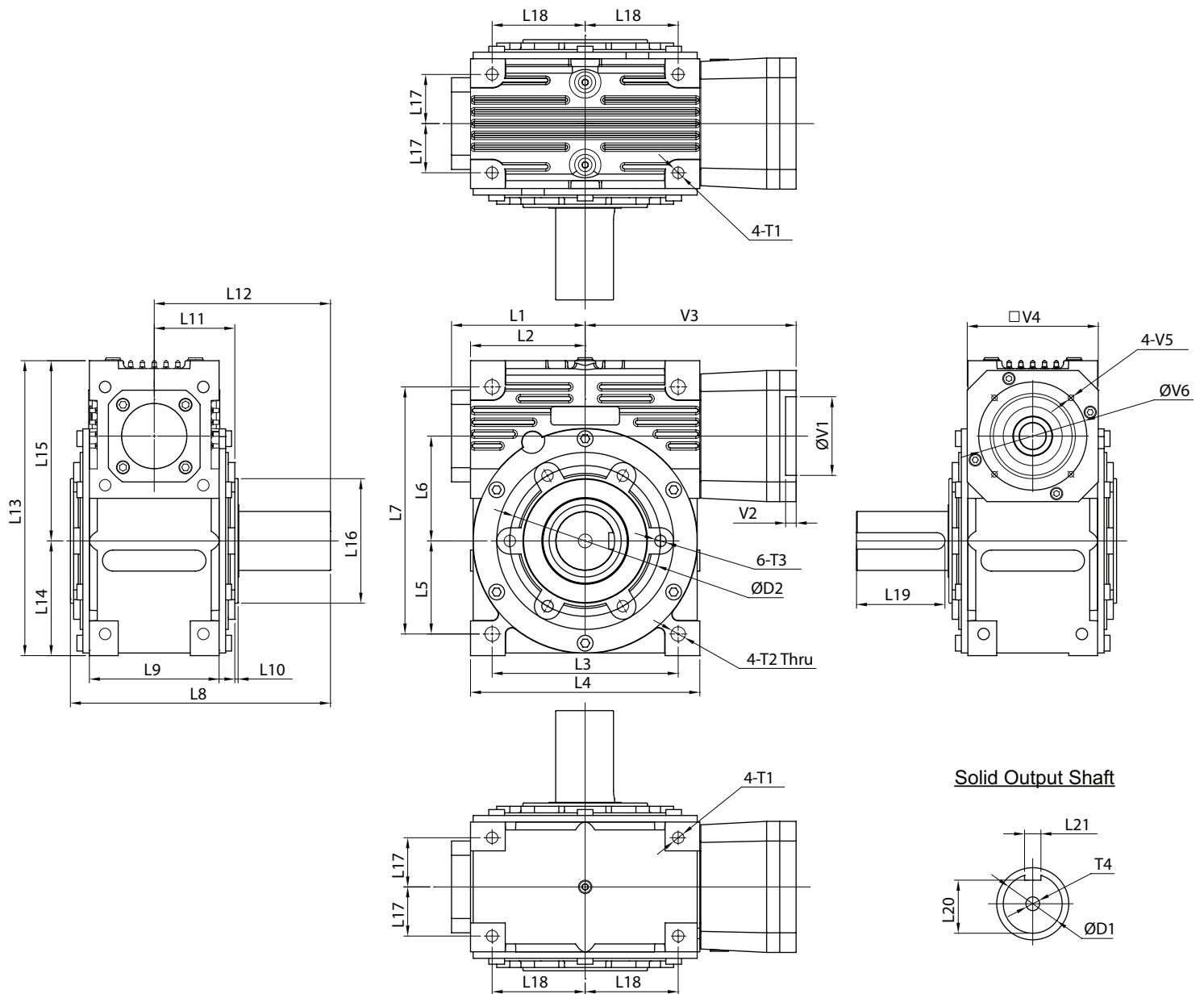
EJL Dimensions – Solid Output Shaft - Single and Double



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.							

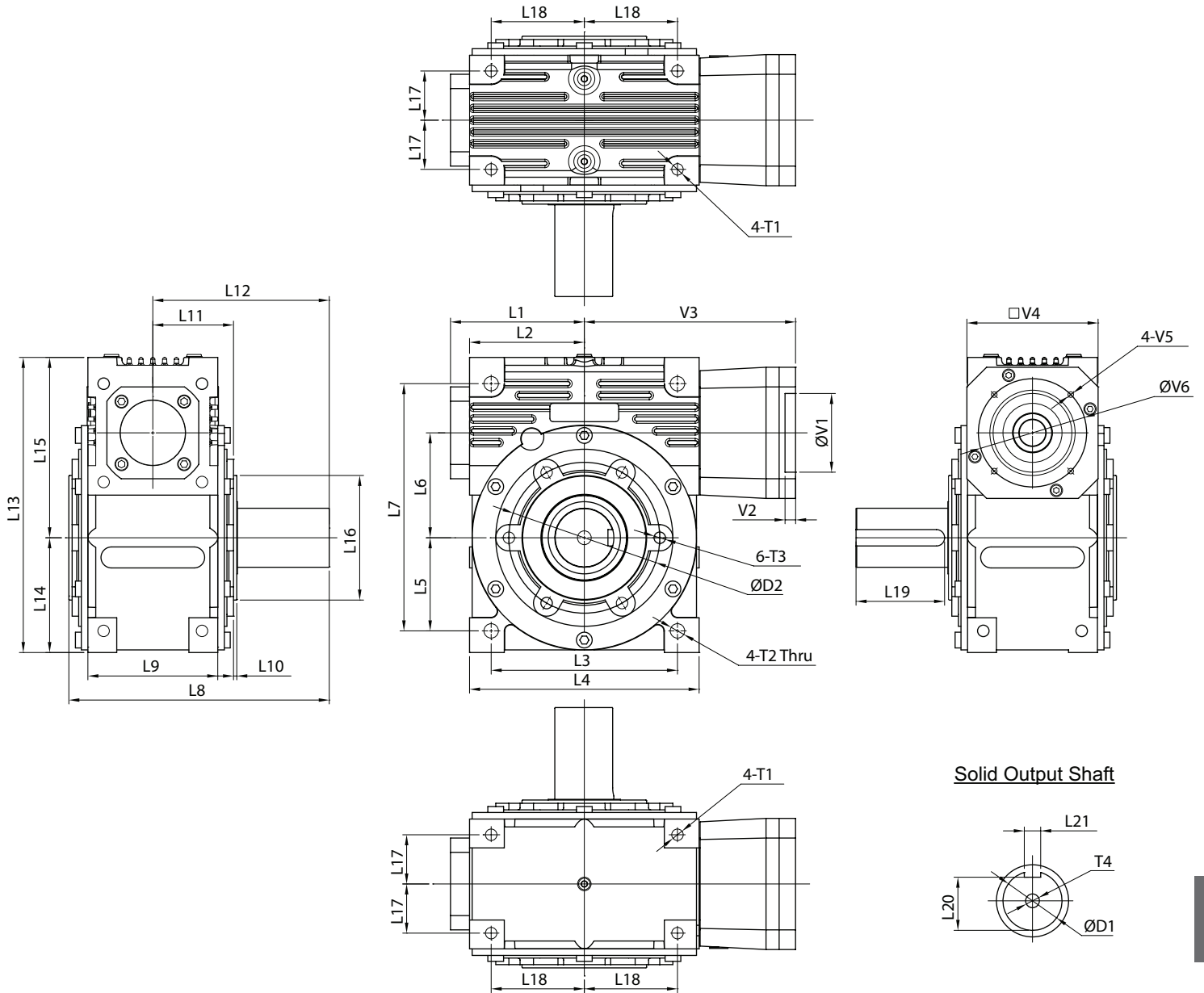
EJL SERIES Right-angle Worm

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

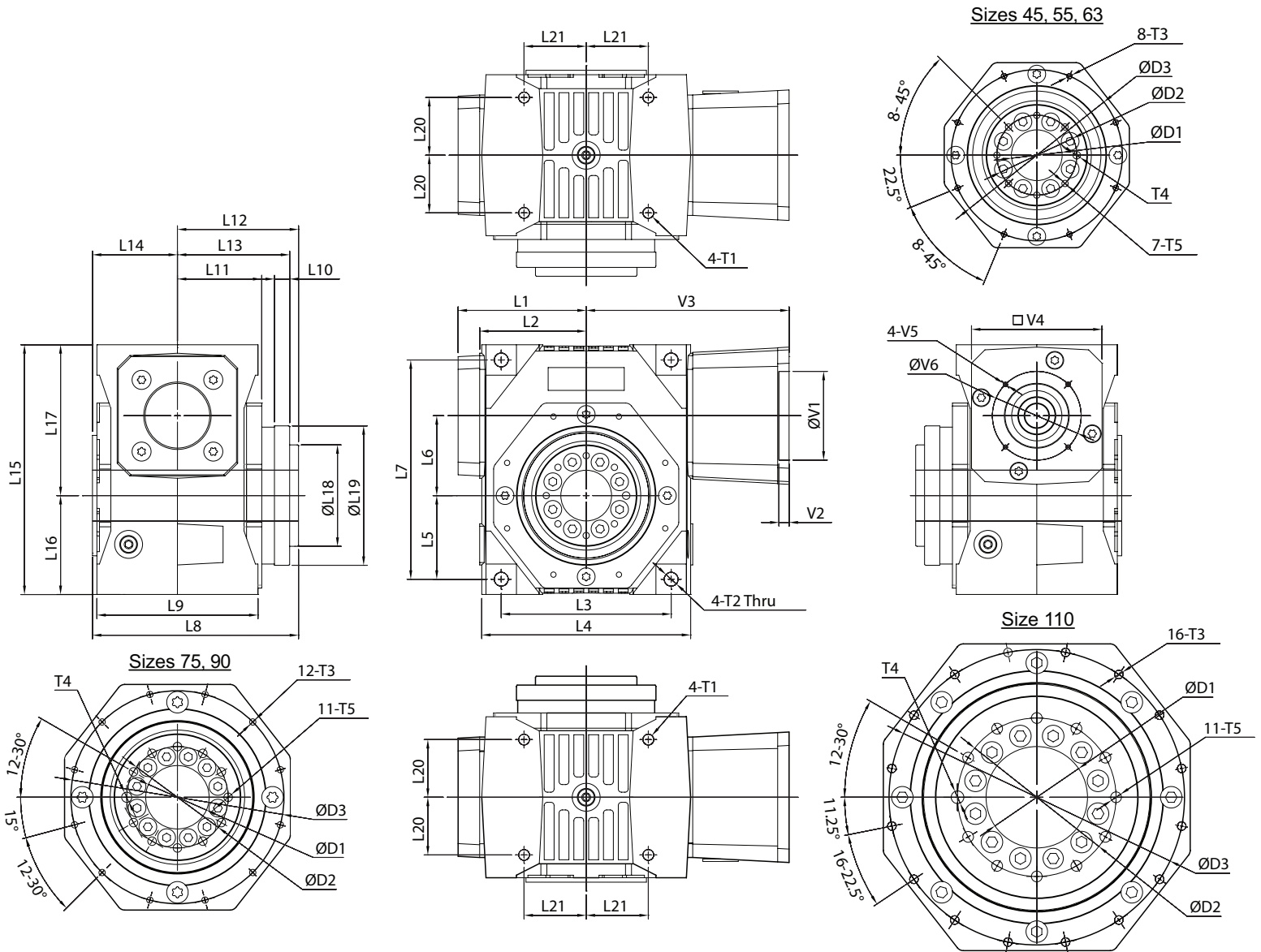
EJL Dimensions – Solid Output Shaft - Single Only



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.			

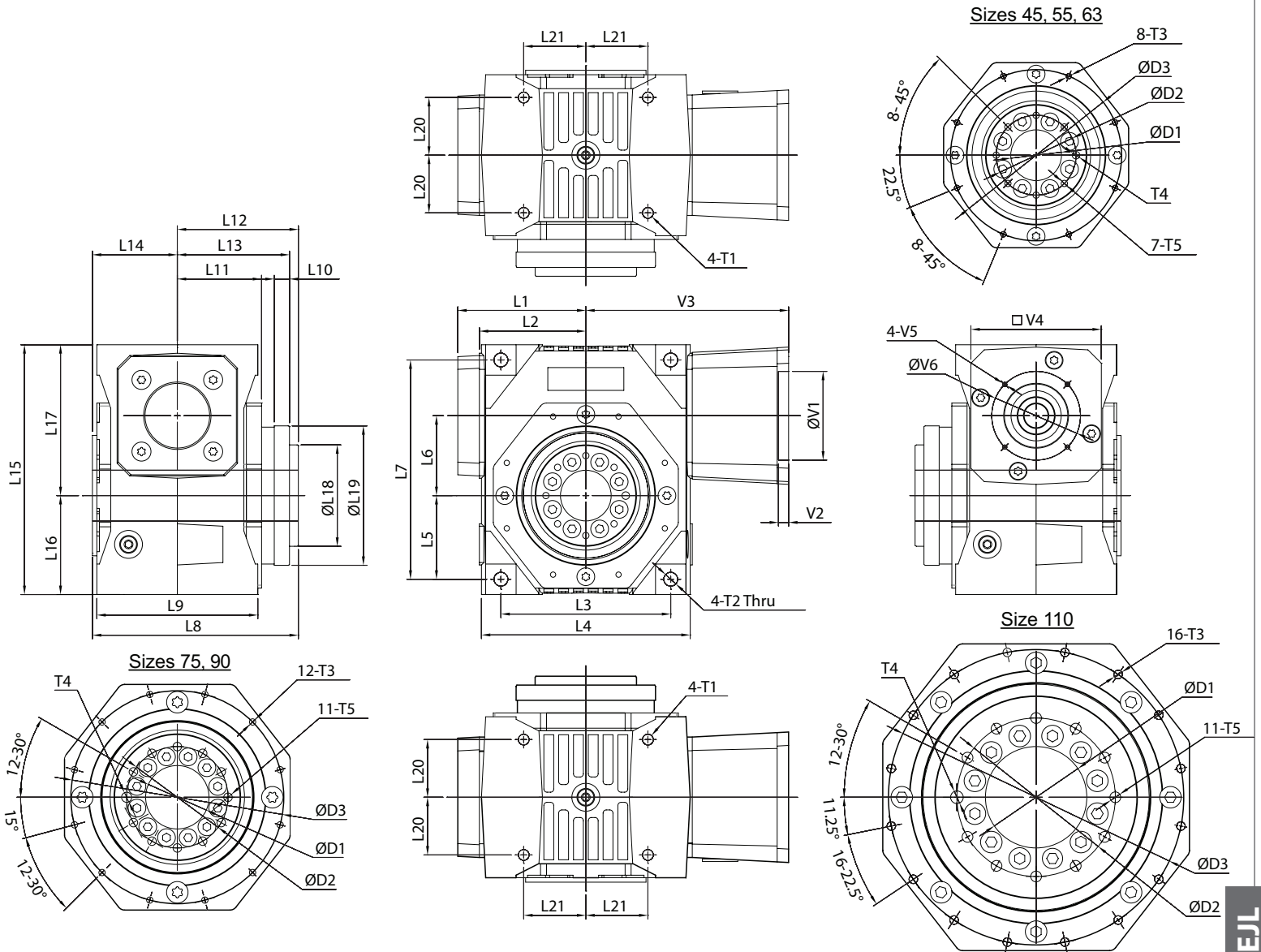
EJL SERIES Right-angle Worm

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.						