



A **Nidec** Group Company
SHIMPO
-All for dreams



EJP SERIES

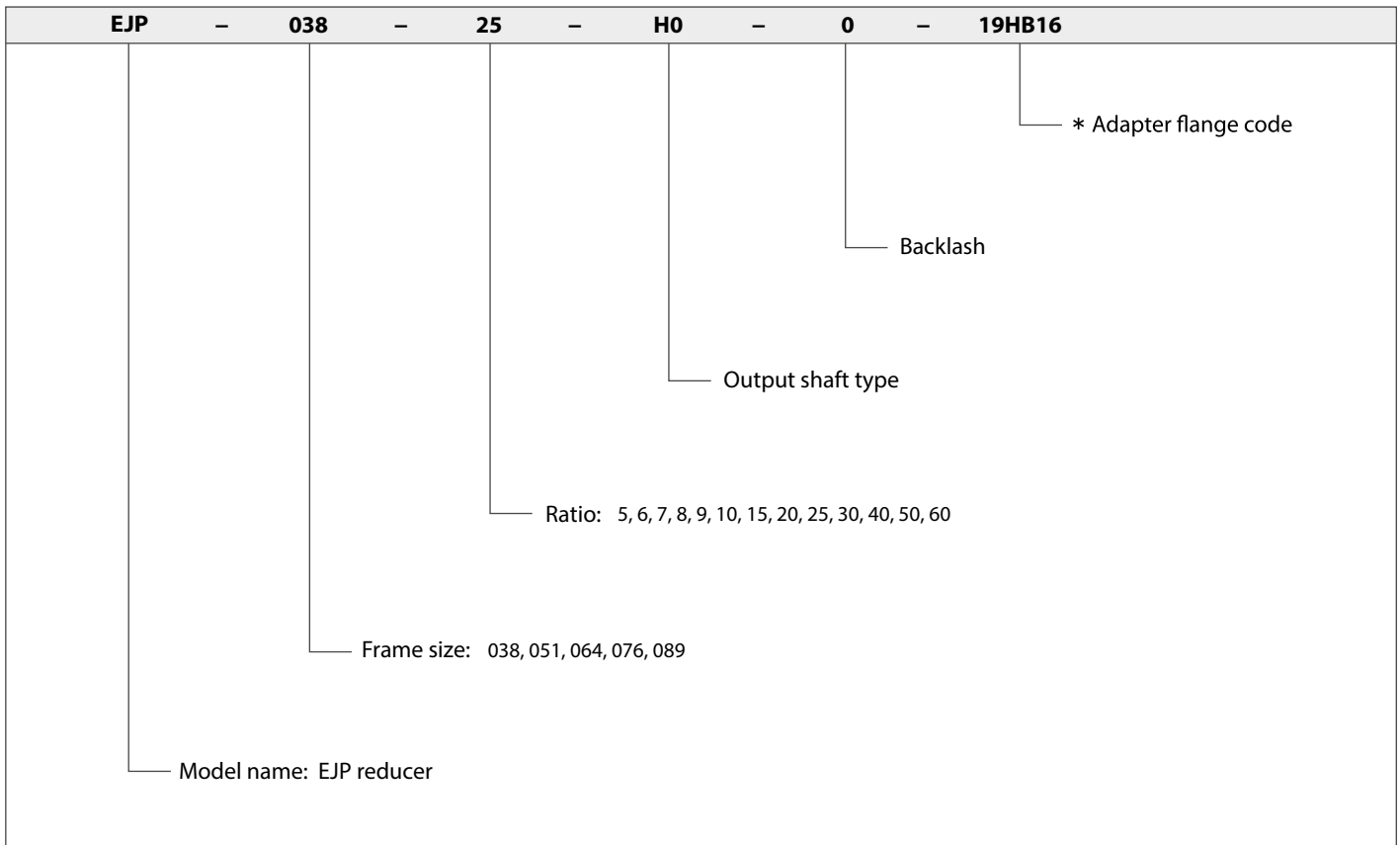
- Globoidal worm gear mesh
- Zero backlash available
- Optimal sound characteristics
- Performance leader of category



SIT S.p.A.

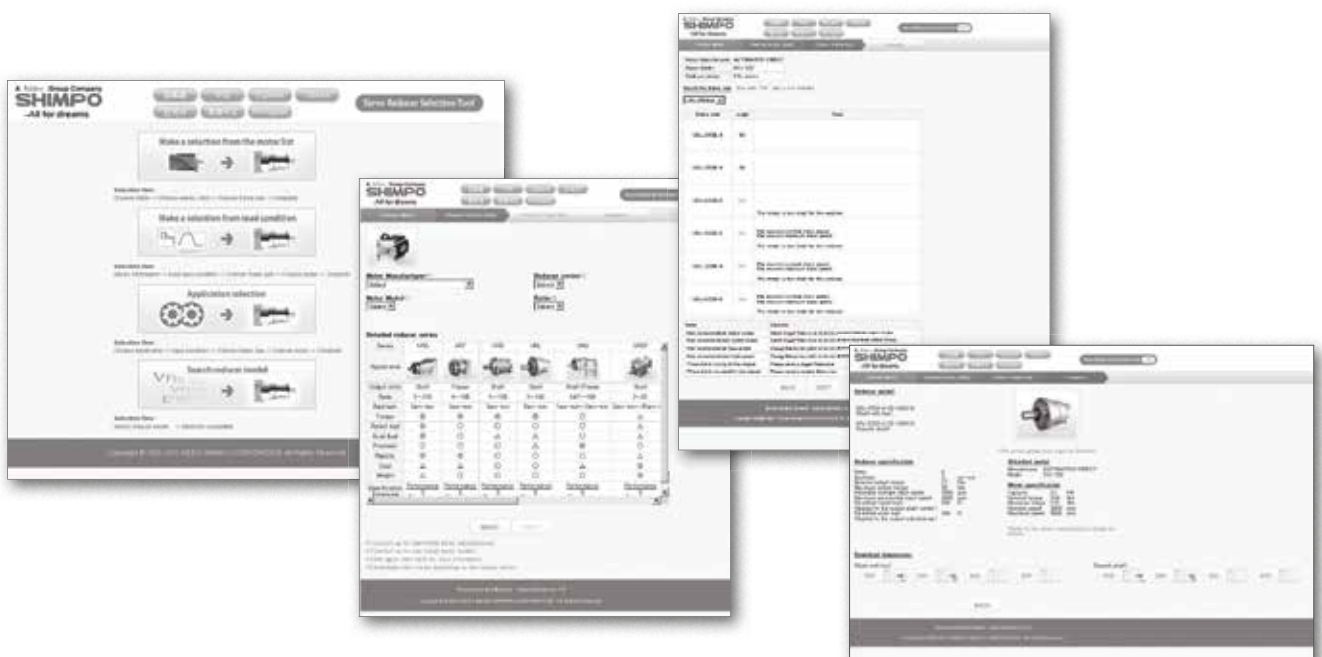
Viale A. Volta, 2 - 20090 Cusago - (MI) - Italy
Tel. +39.02.89144.1 - Fax +39.02.89144291
info@sitspa.it - www.sitspa.it

EJP Series – Model Code



*1) Adapter flange code varies depending on the motor

Contact us for additional information or refer to our online reducer selection tool.
 Selection tool www.nidec-shimpo.co.jp/selection/eng

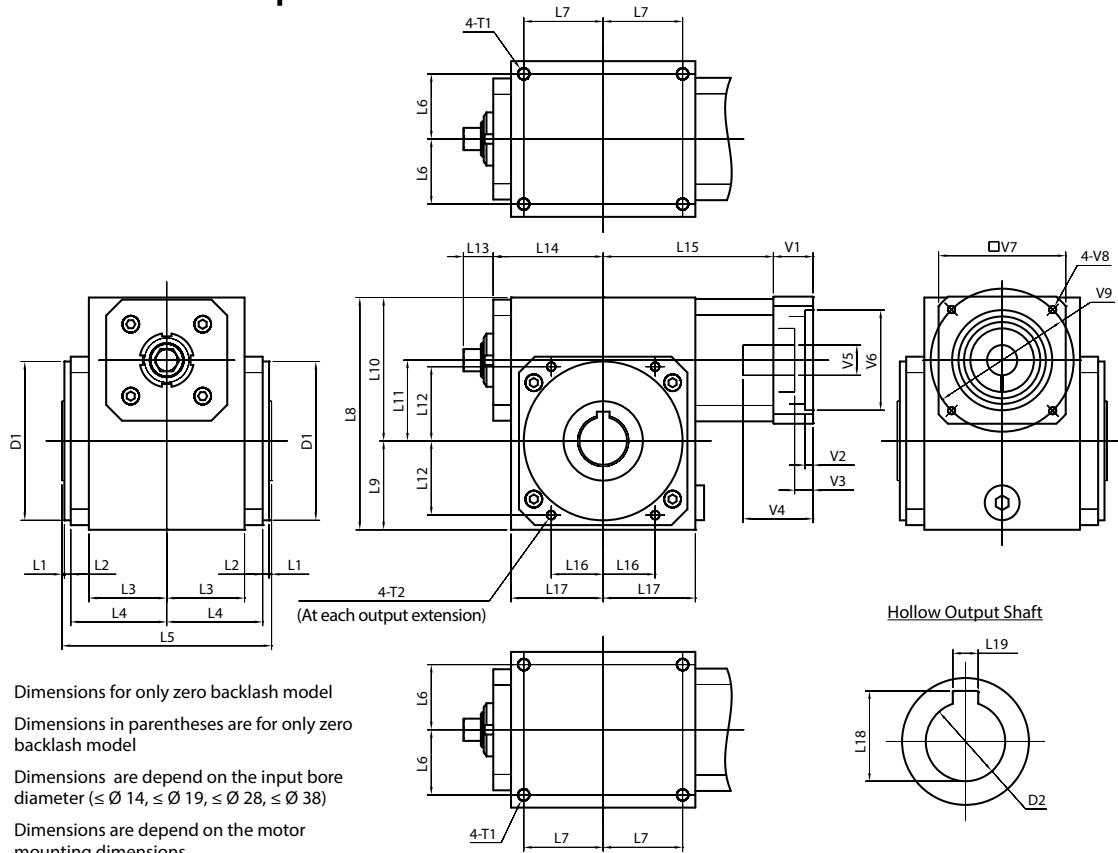




EJP Specifications

Model		Ratio	EJP38	EJP51	EJP64	EJP76	EJP89
Nominal Output Torque	[Nm]	5	35	67	120	200	340
		6	—	75	180	220	380
		7	—	78	140	230	400
		8	—	82	150	250	430
		9	—	85	150	260	440
		10	46	87	150	260	460
		15	49	90	160	270	480
		20	47	88	160	270	470
		25	—	89	160	270	470
		30	46	86	150	260	450
		40	42	81	150	250	430
		50	42	78	140	240	410
		60	38	75	130	230	400
Maximum Acceleration Torque	[Nm]	5	46	90	170	270	480
		6	—	99	180	310	540
		7	—	110	190	320	570
		8	—	110	210	340	600
		9	—	110	210	350	620
		10	59	120	210	370	640
		15	61	120	220	380	660
		20	60	120	220	370	650
		25	—	120	220	370	650
		30	56	110	210	360	620
		40	52	110	200	340	590
		50	52	100	190	330	570
		60	47	100	180	320	550
Emergency Stop Torque	[Nm]	5 ~ 60	3 times of Nominal Output Torque				
No Load Running Torque	[Nm]	5 ~ 60	0.51	1.61	2.72	3.46	4.20
Nominal Input Speed	[rpm]	5 ~ 60	2,000	2,000	2,000	2,000	2,000
Maximum Continuous Input Speed	[rpm]	5 ~ 60	4,000	4,000	4,000	4,000	4,000
Maximum Cyclic Input Speed	[rpm]	5 ~ 60	6,000	6,000	6,000	6,000	6,000
Maximum Radial Load	[N]	5 ~ 60	5,050	6,730	9,210	10,980	18,170
Maximum Axial Load	[N]	5 ~ 60	5,050	6,730	9,210	10,980	18,170
Moment of Inertia (Input Bore ≤ Ø 14, ≤ Ø 19, ≤ Ø 28, ≤ Ø 38)	[kgcm ²]	5	0.75, 0.95, 2.13, —	1.52, 1.72, 2.89, —	—, 5.42, 6.24, 11.8	—, 13.3, 16.2, 19.9	—, 28.3, 32.3, 36.9
		6	—	1.28, 1.48, 2.66, —	—, 4.66, 5.48, 11.1	—, 11.1, 14.0, 17.7	—, 23.9, 27.8, 32.5
		7	—	1.14, 1.34, 2.52, —	—, 4.20, 5.02, 10.6	—, 9.80, 12.7, 16.3	—, 21.2, 25.2, 29.8
		8	—	1.04, 1.24, 2.42, —	—, 3.90, 4.72, 10.3	—, 8.94, 11.8, 15.5	—, 19.5, 23.4, 28.1
		9	—	0.98, 1.18, 2.36, —	—, 3.69, 4.51, 10.1	—, 8.35, 11.2, 14.9	—, 18.3, 22.2, 26.9
		10	0.59, 0.79, 1.97, —	0.94, 1.14, 2.31, —	—, 3.54, 4.36, 9.94	—, 7.92, 10.8, 14.5	—, 17.4, 21.4, 26.0
		15	0.56, 0.76, 1.94, —	0.83, 1.03, 2.21, —	—, 3.20, 4.02, 9.60	—, 6.92, 9.78, 13.5	—, 15.4, 19.4, 24.0
		20	0.54, 0.74, 1.92, —	0.79, 0.99, 2.17, —	—, 3.07, 3.89, 9.47	—, 6.57, 9.43, 13.1	—, 14.7, 18.7, 23.3
		25	—	0.77, 0.97, 2.15, —	—, 3.02, 3.84, 9.42	—, 6.41, 9.27, 13.0	—, 14.4, 18.3, 23.0
		30	0.54, 0.74, 1.92, —	0.76, 0.96, 2.14, —	—, 2.99, 3.81, 9.39	—, 6.32, 9.18, 12.9	—, 14.2, 18.1, 22.8
		40	0.53, 0.73, 1.91, —	0.75, 0.95, 2.13, —	—, 2.96, 3.78, 9.36	—, 6.24, 9.10, 12.8	—, 14.0, 18.0, 22.6
50	0.53, 0.73, 1.91, —	0.75, 0.95, 2.13, —	—, 2.94, 3.76, 9.34	—, 6.19, 9.05, 12.7	—, 13.9, 17.9, 22.5		
60	0.53, 0.73, 1.91, —	0.75, 0.95, 2.13, —	—, 2.93, 3.75, 9.33	—, 6.17, 9.03, 12.7	—, 13.9, 17.8, 22.5		
Efficiency	[%]	5	88	92	92	92	91
		6	—	91	92	92	91
		7	—	91	91	91	91
		8	—	91	91	91	90
		9	—	90	90	90	90
		10	86	90	90	89	89
		15	84	88	88	88	87
		20	81	85	85	85	84
		25	—	84	84	84	83
		30	76	80	80	80	79
		40	72	76	76	76	75
50	69	73	73	73	72		
60	66	70	70	70	69		
Torsional Rigidity	[Nm/arcmin]	5 ~ 60	3.8	7.6	17.5	38.5	71
Maximum Torsional Backlash (Standard)	[Arc-min]	5 ~ 60	≤ 24	≤ 15	≤ 12	≤ 10	≤ 10
Maximum Torsional Backlash (Low)	[Arc-min]	5 ~ 60	≤ 8	≤ 6	≤ 5	≤ 4	≤ 3
Maximum Torsional Backlash (Zero)	[Arc-min]	5 ~ 60	≤ —	≤ 0	≤ 0	≤ 0	≤ 0
Noise Level	[dB]	5 ~ 60	≤ 73	≤ 75	≤ 80	≤ 80	≤ 83
Weight	[kg]	5 ~ 60	4.1	8.2	15	25	50
Ambient Temperature	[°C]	5 ~ 60	-25 ~ 100				
Permitted Housting Temperature	[°C]	5 ~ 60	100				
Service Life	[Hours]	5 ~ 60	25,000				
Protection Class		5 ~ 60	IP 65				
Lubrication		5 ~ 60	Synthetic Oil				
Mounting Position		5 ~ 60	Any				

EJP Dimensions – Hollow Output Shaft



- *1) Dimensions for only zero backlash model
- *2) Dimensions in parentheses are for only zero backlash model
- *3) Dimensions are depend on the input bore diameter ($\leq \varnothing 14$, $\leq \varnothing 19$, $\leq \varnothing 28$, $\leq \varnothing 38$)
- *4) Dimensions are depend on the motor mounting dimensions

Frame Size	Unit	Note	EJP-038	EJP-051	EJP-064	EJP-076	EJP-089
L1	[mm]	--	1	1	1	2	2
L2	[mm]	--	4	4	4	4	4
L3	[mm]	--	39	49	54	73.5	90
L4	[mm]	--	51	60.5	70	94	111.5
L5	[mm]	--	112	132	148	200	234
L6	[mm]	--	32	41	44	63	80
L7	[mm]	--	42	50	68.5	79	95
L8	[mm]	--	118	146.5	181	214	252
L9	[mm]	--	45	56	73	82	100
L10	[mm]	--	73	90.5	108	132	152
L11	[mm]	--	38.1	50.8	63.5	76.2	88.9
L12	[mm]	--	34.5	46.5	57.5	64.5	80.5
L13	[mm]	*1	---	22	22	32	35
L14	[mm]	*2	63	69.5 (71)	94 (96)	110 (111)	125.5 (131)
L15	[mm]	*3	96.5 - 106.5	105 - 115	130.5 - 142.5	151 - 163	165 - 177
L16	[mm]	--	18.5	32.5	40	45.5	46.5
L17	[mm]	--	50.5	58	79	89.5	105
L18	[mm]	--	28.5	33.5	38.5	49.0	64.5
L19	[mm]	--	8	8	10	14	18
D1 (h8)	[mm]	--	$\varnothing 64$	$\varnothing 100$	$\varnothing 120$	$\varnothing 134$	$\varnothing 145$
D2 (H7)	[mm]	--	$\varnothing 25$	$\varnothing 30$	$\varnothing 35$	$\varnothing 45$	$\varnothing 60$
T1	[mm]	--	4xM8x12	4xM8x12	4xM8x12	4xM10x15	4xM10x15
T2	[mm]	--	4xM6x9	4xM6x9	4xM8x12	4xM10x15	4xM10x15
V1 ~ V9	[mm]	*4	Motor attachment dimensions are made to fit your servo motor.				