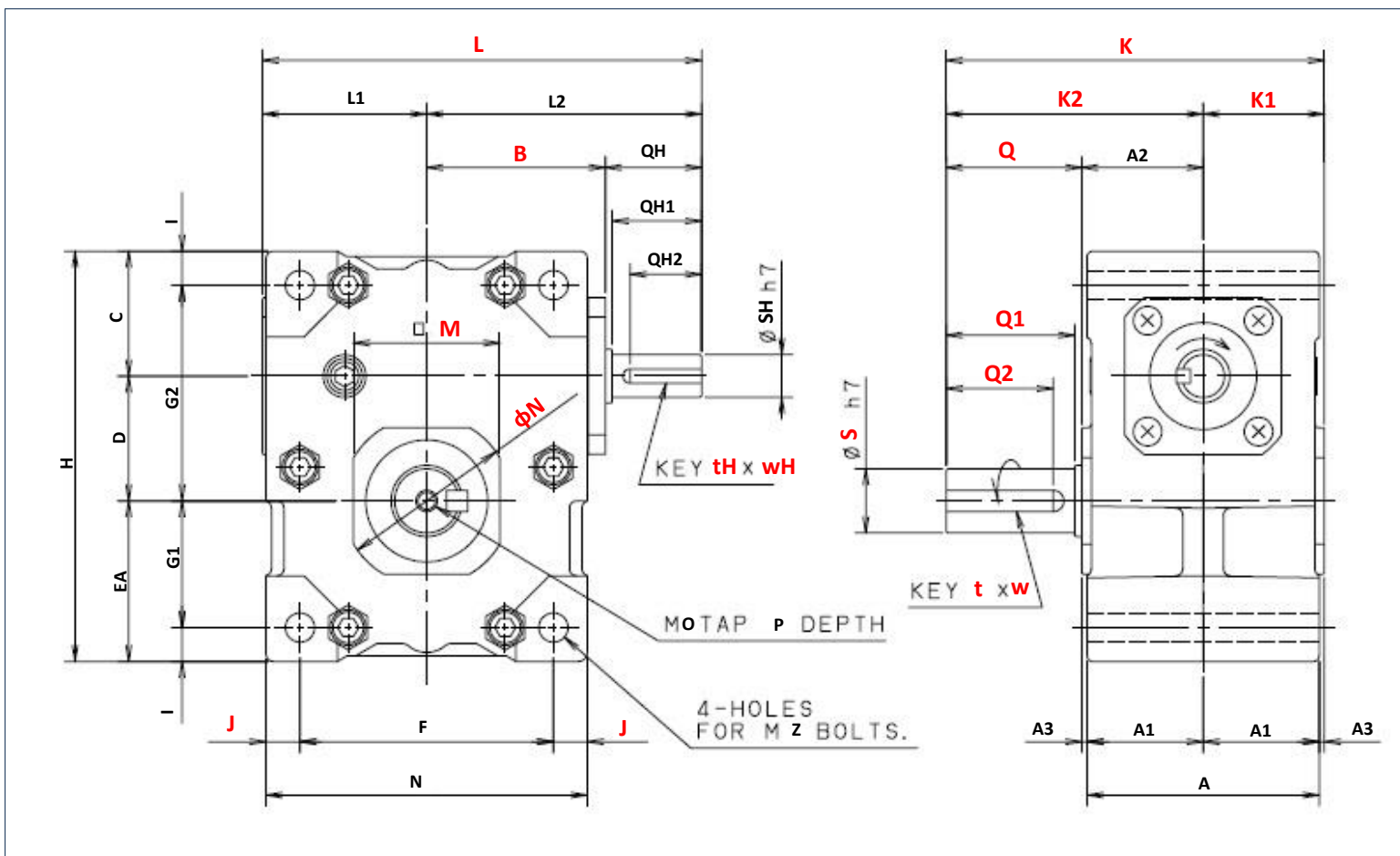


TM10~16・EWJ25~42 Dimension Comparative Chart



Model No.	A	A1	A2	A3	B	C	D	EA	F	G1	G2	H	I	J	K	K1	K2	L	L1	L2	M	N	O	P	Q	Q1	Q2	QH	QH1	QH2	SH	tH	wH	S	t	w
TM10	50	25	26	1	36.5	30	25	35	57	28	48	90	7	7	79	26	53	97	36.5	60.5	-	30	-	-	27	25	-	24	20	-	10	Dcut	Dcut	12	Dcut	Dcut
EWJ25	50	25	28	3	40	30	25	35	57	28	48	90	7	7	88	28	60	98.5	36.5	62	39	45.6	5	10	32	30	20	22	20	15	10	3	3	15	5	5

Model No.	A	A1	A2	A3	B	C	D	EA	F	G1	G2	H	I	J	K	K1	K2	L	L1	L2	M	N	O	P	Q	Q1	Q2	QH	QH1	QH2	SH	tH	wH	S	t	w
TM13	65	32.5	33.5	1	46	35	35	45	71	35.5	60.5	115	9.5	9.5	100.5	33.5	67	121	46	75	-	35	-	-	33.5	30	-	29	25	-	12	Dcut	Dcut	15	Dcut	Dcut
EWJ35	65	32.5	34	1.5	50	35	35	45	71	35.5	60.5	115	9.5	9.5	106	34	72	123	46	77	41	47.6	6	12	38	36	30	27	25	20	12	4	4	18	6	6

Model No.	A	A1	A2	A3	B	C	D	EA	F	G1	G2	H	I	J	K	K1	K2	L	L1	L2	M	N	O	P	Q	Q1	Q2	QH	QH1	QH2	SH	tH	wH	S	t	w
TM16	71	35.5	36.5	1	56	39	42	52	88	41	70	133	11	11	116	36.5	79.5	148	56	92	-	35	-	-	43	40	27	36	30	15	15	5	5	19	5	5
EWJ42	71	35.5	38.5	3	60	39	42	52	88	41	70	133	11	11	124.5	38.5	86	148	56	92	55	62.6	8	16	47.5	44	38	32	30	25	15	5	5	22	6	6

Major Changes

- ① Input and output shaft root housing pop-up. (Filter specification for EWJ.)
- ② Diameter of output shaft (Enlarged to meet upgraded EWJ capacity need.)
- ③ Input shaft of EWJ all sizes is changed into Key specification.
- ④ Lubricant is sealed to meet upgraded EWJ capacity need.
- ⑤ For EWJ series, mounting bolt / mounting leg are options.

TM10~16・EWJ25~42 Transmission Capacity Chart

Input Rotation Speed		1750r/min		1450r/min		1150r/min		950r/min		500r/min		100r/min	
Size	Reduction Ratio	Input kW	Output torque N·m[kgf·m]	Input kW	Output torque N·m[kgf·m]	Input kW	Output torque N·m[kgf·m]	Input kW	Output torque N·m[kgf·m]	Input kW	Output torque N·m[kgf·m]	Input kW	Output torque N·m[kgf·m]
TM10	10	0.187	8.53 [0.87]	0.176	9.51 [0.97]	0.166	11.2 [1.14]	0.157	12.7 [1.30]	0.094	14.0 [1.43]	0.022	14.9 [1.52]
	20	0.127	10.6 [1.08]	0.121	12.0 [1.22]	0.104	12.7 [1.30]	0.089	12.9 [1.32]	0.052	13.8 [1.41]	0.012	14.2 [1.45]
	30	0.091	10.1 [1.03]	0.088	11.5 [1.17]	0.082	13.0 [1.33]	0.071	13.4 [1.37]	0.042	14.1 [1.44]	0.011	14.9 [1.52]
	40	0.081	11.1 [1.13]	0.076	12.2 [1.24]	0.064	12.5 [1.28]	0.056	13.0 [1.33]	0.033	13.6 [1.39]	0.008	13.8 [1.41]
	50	0.069	11.1 [1.13]	0.062	11.6 [1.18]	0.052	11.9 [1.21]	0.045	12.3 [1.25]	0.027	12.8 [1.31]	0.007	13.4 [1.37]
	60	0.058	10.4 [1.06]	0.051	10.8 [1.10]	0.044	11.2 [1.14]	0.037	11.3 [1.15]	0.023	12.1 [1.23]	0.006	12.5 [1.28]

Input Rotation Speed		1750r/min		1450r/min		1150r/min		950r/min		500r/min		100r/min	
Size	Reduction Ratio	Input kW	Output torque N·m[kgf·m]	Input kW	Output torque N·m[kgf·m]	Input kW	Output torque N·m[kgf·m]	Input kW	Output torque N·m[kgf·m]	Input kW	Output torque N·m[kgf·m]	Input kW	Output torque N·m[kgf·m]
EWJ25	10	0.27	12.4 [1.26]	0.24	13.3 [1.36]	0.22	14.8 [1.51]	0.18	14.9 [1.52]	0.10	14.9 [1.52]	0.021	14.9 [1.52]
	15	0.20	12.9 [1.31]	0.18	13.9 [1.41]	0.16	14.9 [1.52]	0.13	14.9 [1.52]	0.07	14.9 [1.52]	0.016	14.9 [1.52]
	20	0.16	13.5 [1.38]	0.15	14.5 [1.48]	0.12	14.9 [1.52]	0.10	14.9 [1.52]	0.06	14.9 [1.52]	0.013	14.9 [1.52]
	25	0.14	13.9 [1.42]	0.13	14.9 [1.52]	0.10	14.9 [1.52]	0.09	14.9 [1.52]	0.05	14.9 [1.52]	0.011	14.9 [1.52]
	30	0.12	13.6 [1.39]	0.11	14.7 [1.50]	0.09	14.9 [1.52]	0.08	14.9 [1.52]	0.04	14.9 [1.52]	0.01	14.9 [1.52]
	40	0.10	13.9 [1.42]	0.09	14.9 [1.52]	0.08	14.9 [1.52]	0.07	14.9 [1.52]	0.04	14.9 [1.52]	0.009	14.9 [1.52]
	50	0.09	13.9 [1.42]	0.08	14.4 [1.47]	0.07	14.9 [1.52]	0.06	14.9 [1.52]	0.03	14.9 [1.52]	0.008	14.9 [1.52]
	60	0.07	13.0 [1.33]	0.06	13.5 [1.37]	0.06	13.9 [1.42]	0.05	14.3 [1.46]	0.03	14.3 [1.46]	0.007	14.3 [1.46]

Input Rotation Speed		1750r/min		1450r/min		1150r/min		950r/min		500r/min		100r/min	
Size	Reduction Ratio	Input kW	Output torque N·m[kgf·m]	Input kW	Output torque N·m[kgf·m]	Input kW	Output torque N·m[kgf·m]	Input kW	Output torque N·m[kgf·m]	Input kW	Output torque N·m[kgf·m]	Input kW	Output torque N·m[kgf·m]
TM13	10	0.375	17.2 [1.76]	0.352	19.4 [1.98]	0.331	22.6 [2.31]	0.313	25.7 [2.62]	0.22	33.1 [3.38]	0.053	36.3 [3.70]
	20	0.253	21.4 [2.18]	0.237	23.7 [2.42]	0.224	27.7 [2.83]	0.205	30.2 [3.08]	0.123	32.7 [3.34]	0.03	35.2 [3.59]
	30	0.181	20.5 [2.09]	0.176	23.5 [2.40]	0.165	27.0 [2.75]	0.156	30.1 [3.07]	0.099	33.8 [3.45]	0.025	36.1 [3.68]
	40	0.161	22.7 [2.32]	0.152	25.1 [2.56]	0.144	29.1 [2.97]	0.127	30.1 [3.07]	0.078	32.4 [3.31]	0.02	34.5 [3.52]
	50	0.144	23.9 [2.44]	0.136	26.3 [2.68]	0.118	27.6 [2.82]	0.104	28.6 [2.92]	0.064	30.8 [3.14]	0.017	32.9 [3.36]
	60	0.127	23.3 [2.38]	0.116	24.7 [2.52]	0.102	26.4 [2.69]	0.091	27.3 [2.79]	0.057	29.6 [3.02]	0.015	31.1 [3.17]

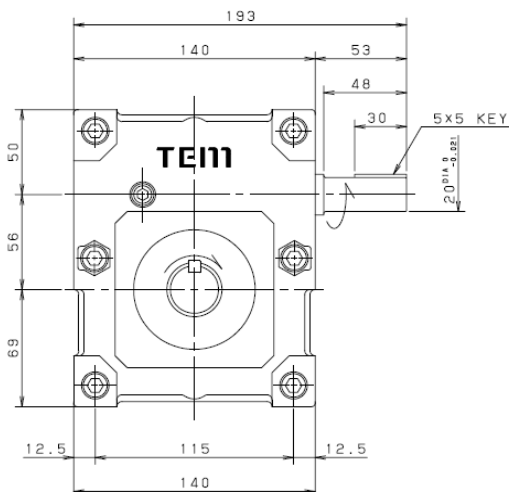
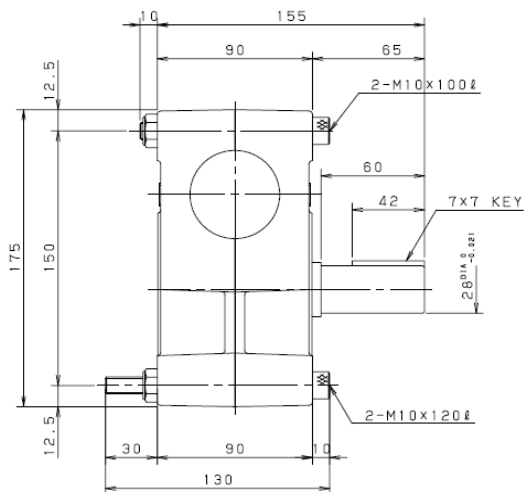
Input Rotation Speed		1750r/min		1450r/min		1150r/min		950r/min		500r/min		100r/min	
Size	Reduction ratio	Input kW	Output torque N·m[kgf·m]	Input kW	Output torque N·m[kgf·m]	Input kW	Output torque N·m[kgf·m]	Input kW	Output torque N·m[kgf·m]	Input kW	Output torque N·m[kgf·m]	Input kW	Output torque N·m[kgf·m]
EWJ35	10	0.59	27.6 [2.81]	0.53	29.7 [3.03]	0.49	33.8 [3.45]	0.44	36.5 [3.73]	0.24	37.3 [3.81]	0.053	37.3 [3.81]
	15	0.41	27.5 [2.81]	0.37	29.7 [3.03]	0.34	33.5 [3.42]	0.32	37.7 [3.85]	0.18	37.7 [3.85]	0.039	37.7 [3.85]
	20	0.33	27.8 [2.84]	0.30	30.0 [3.06]	0.27	33.7 [3.44]	0.26	37.7 [3.85]	0.14	37.7 [3.85]	0.032	37.7 [3.85]
	25	0.28	28.7 [2.93]	0.26	31.0 [3.16]	0.23	34.7 [3.54]	0.21	37.7 [3.85]	0.12	37.7 [3.85]	0.027	37.7 [3.85]
	30	0.25	29.3 [2.99]	0.23	31.6 [3.22]	0.21	35.3 [3.60]	0.19	37.7 [3.85]	0.11	37.7 [3.85]	0.025	37.7 [3.85]
	40	0.20	28.8 [2.94]	0.19	31.1 [3.18]	0.17	34.7 [3.54]	0.16	37.7 [3.85]	0.09	37.7 [3.85]	0.022	37.7 [3.85]
	50	0.18	29.6 [3.02]	0.16	31.9 [3.26]	0.15	35.5 [3.63]	0.14	37.7 [3.85]	0.08	37.7 [3.85]	0.019	37.7 [3.85]
	60	0.16	29.5 [3.01]	0.15	31.8 [3.25]	0.14	35.3 [3.61]	0.12	37.0 [3.78]	0.07	37.0 [3.78]	0.018	37.0 [3.78]

Input Rotation Speed		1750r/min		1450r/min		1150r/min		950r/min		500r/min		100r/min	
Size	Reduction Ratio	Input kW	Output torque N·m[kgf·m]	Input kW	Output torque N·m[kgf·m]	Input kW	Output torque N·m[kgf·m]	Input kW	Output torque N·m[kgf·m]	Input kW	Output torque N·m[kgf·m]	Input kW	Output torque N·m[kgf·m]
TM16	10	0.562	26.4 [2.69]	0.525	29.4 [3.00]	0.492	34.4 [3.51]	0.463	38.7 [3.95]	0.364	55.9 [5.70]	0.087	61.5 [6.28]
	20	0.378	32.5 [3.32]	0.359	36.8 [3.75]	0.333	42.0 [4.29]	0.317	47.7 [4.87]	0.213	57.8 [5.90]	0.053	63.2 [6.45]
	30	0.281	32.8 [3.35]	0.262	36.2 [3.69]	0.238	40.2 [4.10]	0.231	46.2 [4.71]	0.174	61.4 [6.27]	0.045	67.2 [6.86]
	40	0.239	34.8 [3.55]	0.228	39.2 [4.00]	0.214	44.7 [4.56]	0.205	50.5 [5.15]	0.134	57.7 [5.89]	0.035	62.3 [6.36]
	50	0.214	36.8 [3.75]	0.205	41.4 [4.22]	0.193	47.1 [4.81]	0.173	49.6 [5.06]	0.109	54.5 [5.56]	0.029	59.1 [6.03]
	60	0.197	38.8 [3.96]	0.187	42.9 [4.38]	0.166	46.4 [4.73]	0.148	48.0 [4.90]	0.094	53.0 [5.41]	0.025	56.5 [5.77]

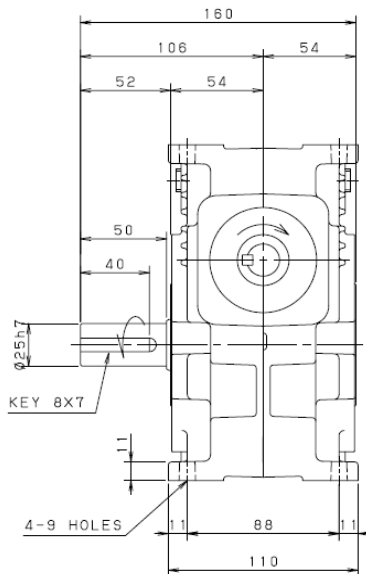
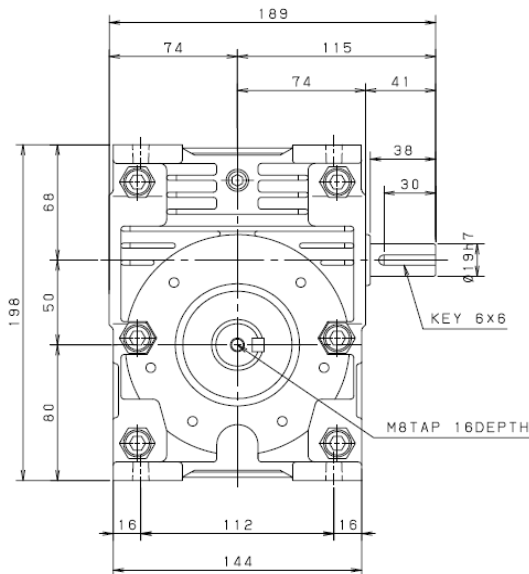
Input Rotation Speed		1750r/min		1450r/min		1150r/min		950r/min		500r/min		100r/min	
Size	Reduction Ratio	Input kW	Output torque N·m[kgf·m]	Input kW	Output torque N·m[kgf·m]	Input kW	Output torque N·m[kgf·m]	Input kW	Output torque N·m[kgf·m]	Input kW	Output torque N·m[kgf·m]	Input kW	Output torque N·m[kgf·m]
EWJ42	10	0.87	41.1 [4.20]	0.81	45.5 [4.65]	0.73	51.3 [5.23]	0.67	56.5 [5.76]	0.45	68.8 [7.02]	0.097	68.8 [7.02]
	15	0.67	45.2 [4.61]	0.61	48.8 [4.98]	0.55	55.0 [5.62]	0.50	59.5 [6.07]	0.32	68.9 [7.03]	0.07	68.9 [7.03]
	20	0.54	46.3 [4.73]	0.49	50.0 [5.10]	0.45	56.1 [5.73]	0.40	60.6 [6.19]	0.26	69.0 [7.04]	0.058	69.0 [7.04]
	25	0.46	47.8 [4.88]	0.42	51.6 [5.27]	0.38	57.8 [5.90]	0.35	62.5 [6.38]	0.22	69.0 [7.04]	0.049	69.0 [7.04]
	30	0.40	47.3 [4.83]	0.37	51.1 [5.21]	0.33	57.0 [5.82]	0.30	61.6 [6.29]	0.19	69.0 [7.04]	0.045	69.0 [7.04]
	40	0.33	47.8 [4.88]	0.30	51.6 [5.27]	0.28	57.5 [5.87]	0.25	62.1 [6.34]	0.16	69.0 [7.04]	0.039	69.0 [7.04]
	50	0.29	49.1 [5.01]	0.26	53.0 [5.40]	0.24	58.9 [6.01]	0.22	63.6 [6.49]	0.14	69.0 [7.04]	0.034	69.0 [7.04]
	60	0.26	50.1 [5.12]	0.24	54.1 [5.52]	0.22	60.0 [6.13]	0.20	63.2 [6.45]	0.12	64.3 [6.56]	0.029	64.3 [6.56]

TM22•EWJ50•EWJ63 Reference Dimensions

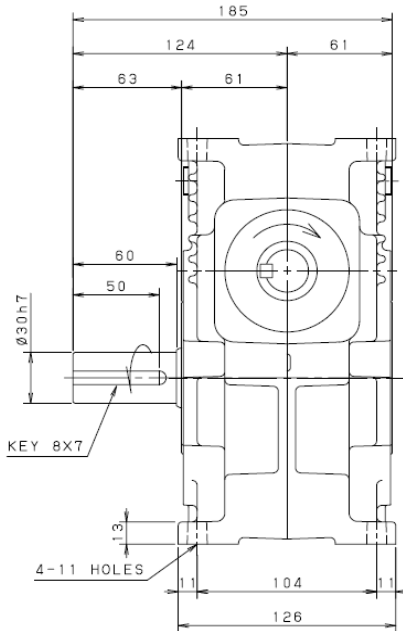
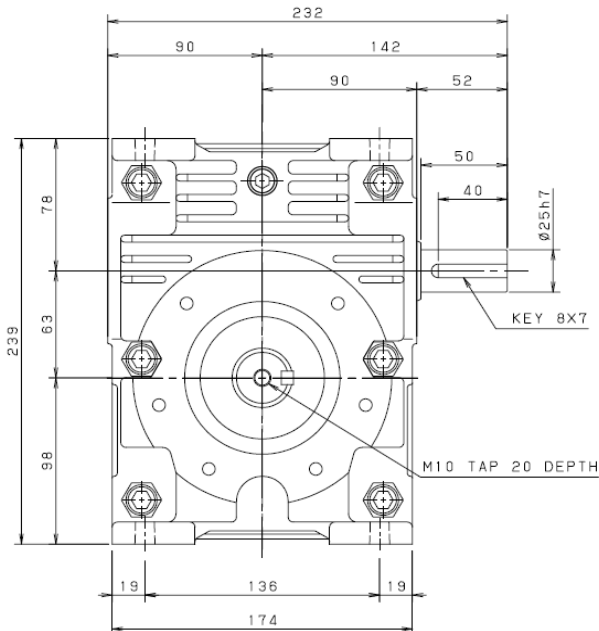
TM22



EWJ50



EWJ63



TM22・EWJ50・EWJ63 Transmission Capacity Chart

Input Rotation Speed		1750r/min		1450r/min		1150r/min		950r/min		500r/min		100r/min	
Size	Reduction Ratio	Input kW	Output torque N・m[kgf・m]	Input kW	Output torque N・m[kgf・m]	Input kW	Output torque N・m[kgf・m]	Input kW	Output torque N・m[kgf・m]	Input kW	Output torque N・m[kgf・m]	Input kW	Output torque N・m[kgf・m]
TM22	10	1.11	53.0 {5.41}	1.04	59.5 {6.07}	0.977	69.8 {7.12}	0.923	79.1 {8.07}	0.771	121 {12.3}	0.189	138 {14.1}
	20	0.738	65.7 {6.70}	0.696	73.7 {7.52}	0.656	86.3 {8.81}	0.614	96.0 {9.80}	0.46	129 {13.2}	0.115	145 {14.8}
	30	0.537	65.6 {6.69}	0.508	73.5 {7.50}	0.476	84.7 {8.64}	0.45	94.7 {9.66}	0.362	134 {13.7}	0.095	151 {15.4}
	40	0.463	71.3 {7.28}	0.439	79.9 {8.15}	0.414	92.3 {9.42}	0.391	102 {10.4}	0.284	129 {13.2}	0.075	144 {14.7}
	50	0.414	75.9 {7.74}	0.393	84.7 {8.64}	0.371	97.6 {9.96}	0.351	108 {11.0}	0.228	122 {12.4}	0.058	127 {13.0}
	60	0.379	79.6 {8.12}	0.361	88.9 {9.07}	0.323	96.6 {9.86}	0.29	102 {10.4}	0.187	113 {11.5}	0.05	123 {12.6}

Input Rotation Speed		1750r/min		1450r/min		1150r/min		950r/min		500r/min		100r/min	
Size	Reduction Ratio	Input kW	Output torque N・m[kgf・m]	Input kW	Output torque N・m[kgf・m]	Input kW	Output torque N・m[kgf・m]	Input kW	Output torque N・m[kgf・m]	Input kW	Output torque N・m[kgf・m]	Input kW	Output torque N・m[kgf・m]
EWJ50	10	1.70	84 {8.6}	1.54	91 {9.3}	1.34	99 {10.1}	1.20	106 {10.9}	0.67	109 {11.1}	0.14	109 {11.1}
	15	1.28	91 {9.3}	1.16	99 {10.1}	1.03	109 {11.1}	0.86	109 {11.1}	0.47	109 {11.1}	0.10	109 {11.1}
	20	1.02	94 {9.6}	0.92	101 {10.4}	0.80	109 {11.1}	0.67	109 {11.1}	0.37	109 {11.1}	0.08	109 {11.1}
	25	0.85	95 {9.7}	0.76	101 {10.3}	0.66	108 {11.1}	0.56	109 {11.1}	0.31	109 {11.1}	0.07	109 {11.1}
	30	0.75	95 {9.7}	0.68	103 {10.5}	0.59	109 {11.1}	0.50	109 {11.1}	0.28	109 {11.1}	0.07	109 {11.1}
	40	0.59	94 {9.6}	0.53	101 {10.3}	0.47	108 {11.1}	0.40	109 {11.1}	0.22	109 {11.1}	0.05	109 {11.1}
	50	0.48	91 {9.3}	0.43	98 {10.0}	0.38	104 {10.6}	0.34	109 {11.1}	0.19	109 {11.1}	0.05	109 {11.1}
	60	0.40	86 {8.8}	0.36	92 {9.4}	0.32	98 {10.0}	0.28	103 {10.5}	0.17	106 {10.8}	0.04	106 {10.8}

Input Rotation Speed		1750r/min		1450r/min		1150r/min		950r/min		500r/min		100r/min	
Size	Reduction Ratio	Input kW	Output torque N・m[kgf・m]	Input kW	Output torque N・m[kgf・m]	Input kW	Output torque N・m[kgf・m]	Input kW	Output torque N・m[kgf・m]	Input kW	Output torque N・m[kgf・m]	Input kW	Output torque N・m[kgf・m]
EWJ63	10	3.22	161 {16.4}	2.98	178 {18.2}	2.65	197 {20.1}	2.36	211 {21.6}	1.36	224 {22.9}	0.29	224 {22.9}
	15	2.41	174 {17.7}	2.23	192 {19.6}	1.98	212 {21.6}	1.75	224 {22.9}	0.96	224 {22.9}	0.21	224 {22.9}
	20	1.91	179 {18.2}	1.76	196 {20.0}	1.56	215 {22.0}	1.36	224 {22.9}	0.75	224 {22.9}	0.17	224 {22.9}
	25	1.57	179 {18.3}	1.44	196 {20.0}	1.27	213 {21.7}	1.12	224 {22.9}	0.62	224 {22.9}	0.14	224 {22.9}
	30	1.38	180 {18.4}	1.29	198 {20.2}	1.15	218 {22.3}	1.00	224 {22.9}	0.56	224 {22.9}	0.13	224 {22.9}
	40	1.09	178 {18.2}	1.01	196 {20.0}	0.91	215 {21.9}	0.80	224 {22.9}	0.46	224 {22.9}	0.11	224 {22.9}
	50	0.88	173 {17.7}	0.81	188 {19.2}	0.73	205 {20.9}	0.65	217 {22.1}	0.39	224 {22.9}	0.09	224 {22.9}
	60	0.72	163 {16.7}	0.67	177 {18.1}	0.59	192 {19.6}	0.53	203 {20.7}	0.31	204 {20.8}	0.07	204 {20.8}