

Torque motors for extruders

Solutions for the plastics industry

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



ENGINEERING YOUR SUCCESS.

An innovative solution for extruders

An advantageous “direct drive” alternative to costly gearbox based systems in extruders applications

Parker torque motors are permanent magnet brushless servo motors, especially designed to replace direct current or induction motors associated with gearboxes on extruders applications.

Designed to deliver high torque at low speed without any additional mechanical transmission system, their usage results in more compact, more efficient, less noisy and maintenance free drive systems.

Example of energy savings

Gearbox suppression has an immediate impact on the overall installation's efficiency, resulting in energy savings.

Example :

- 100 kW extruder,
- 7200h annual operating
- Energy cost: 0,10 €/kWh

Overall efficiency improvement due to the installation of a torque Motor: 5%

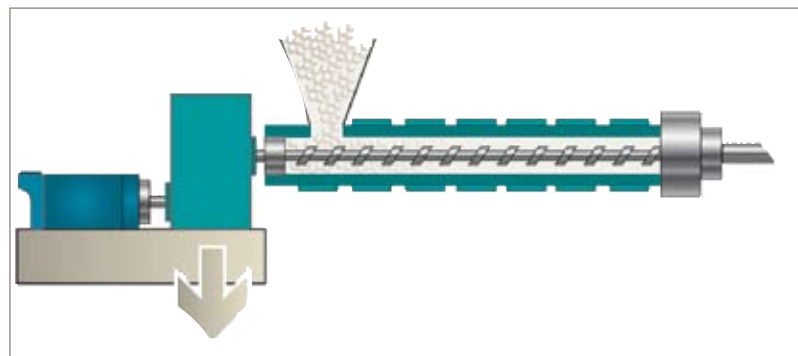
Annual savings 3600 €



DC or induction Motor - Gearbox required

DISADVANTAGES

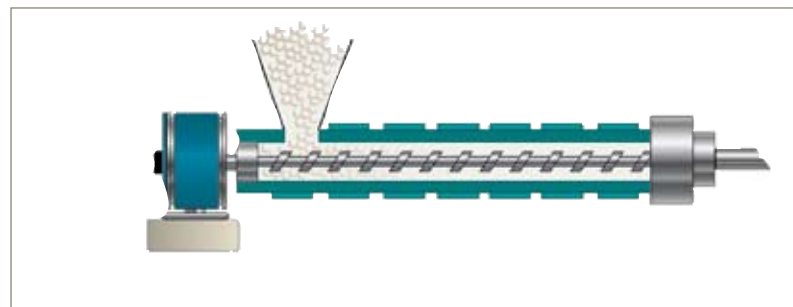
- ☹ DC Motor maintenance
- ☹ Gearbox maintenance
- ☹ High energy consumption
- ☹ Important dimensions
- ☹ Noisy solution



Parker Torque Motor without Gearbox

ADVANTAGES

- ☺ No maintenance
- ☺ Reduced energy consumption (by about 5%)
- ☺ Silent operation (European Directive 2003/10/CE)
- ☺ Increased compactness



Product overview

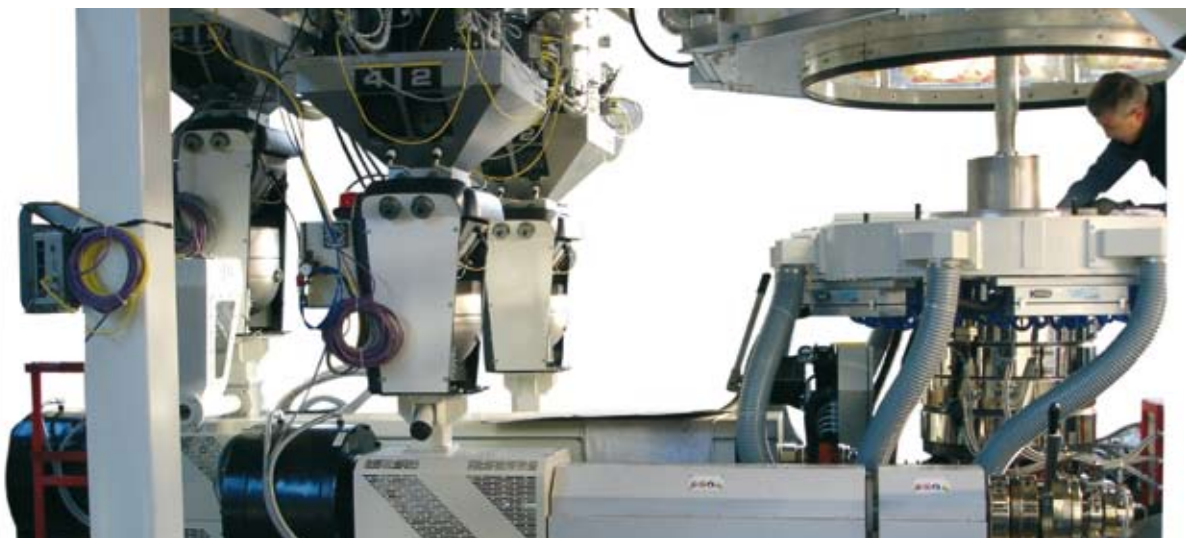
More than just motors, Parker Torque Motors are complete and ready-to-use “direct drives” systems, especially designed to fully and effectively respond to Plastics and Rubber industries specific needs.

Result of a close cooperation with machine builders and end-users, those innovative “direct drive” solutions integrate various dedicated features, such as: a generously sized, integrated thrust bearing to support back pressure from the screw, as well as specific mechanisms allowing for quick and easy removal of the screw from the motor...

Delivering torques up to 22 100 N.m, at speeds ranging from 50 to 500 rpm, Parker Torque Motors represent the perfect alternative to gearbox based systems, for extruders applications of power up to 320 kW.

Technical specifications

• Torque range	1200 – 22100 N.m (water-cooling)
• Shaft heights	200, 315 or 400 mm
• Rated Voltage	400 VAC and 480 VAC
• Speed	50 – 500 rpm (size dependent) - Field weakening operation up to $1.2x n_{rated}$ - Other speeds available on request
• Cooling	Water Jacket as standard - Natural ventilation with derating (consult us)
• Mounting	IMB3
• Protection degree	IP 54
• Thermal protection	1 x KTY sensor and 2 x PTC probes - Temperature alarm and default
• Shaft end	Hollow shaft with keyway as standard - Customized interfaces available on request
• Thrust bearing	SKF 294__E as standard
• Feedback sensor	Endat Encoder as standard Direct Endat Encoder with hollow shaft (option) Resolver (option)



Product code

T M W 3 0 6 L X C 2 0

Product Series
TM: Torque Motors

Cooling Method
W: Water cooling
A: Natural Ventilation
(available with derating, consult us)

Shaft Height
20: 200 mm
30: 315 mm
40: 400 mm

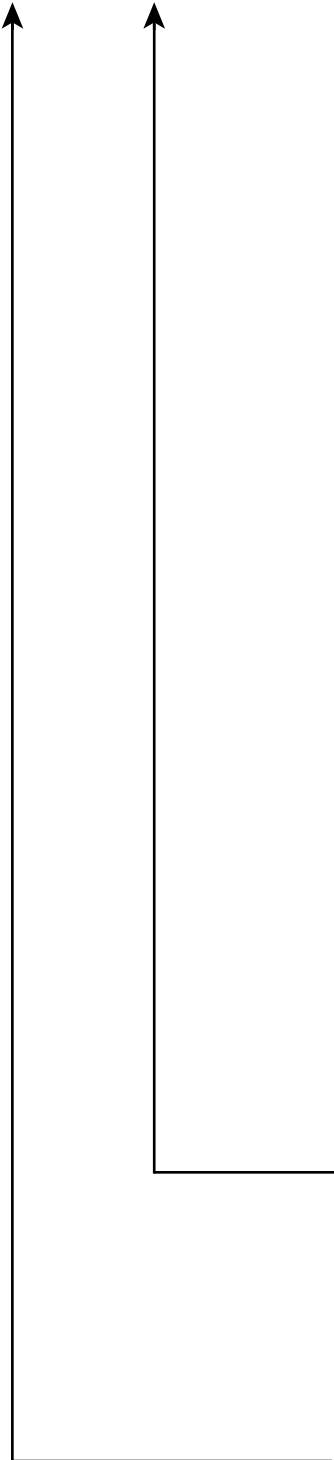
Torque/Speed Characteristics
(see motors data tables)

Feedback Sensor
Option C: Geared Endat Encoder (Standard)
Option B: Direct Endat Encoder with hollow shaft (Option)
Option A: Geared Resolver (Option)

Thrust Bearing
See base configurations table below

Base Configurations				
Motor Model	Thrust Bearing	Availability	Ordering Code	
			Thrust Bearing	Mechanical Interface
TMW204...208	SKF 29420	Standard	20	001
	SKF 29424	Option	24	002
TMW304	SKF 29422	Standard	22	003
	SKF 29426	Option	26	004
	SKF 29430	Option	30	005
TMW305...30A	SKF 29426	Standard	26	004
	SKF 29430	Option	30	005
TMW406	SKF 29430	Standard	30	006
	SKF 29434	Option	34	007
	SKF 29440	Option	40	008
TMW407...40C	SKF 29434	Standard	34	007
	SKF 29440	Option	40	008
All	No thrust bearing, with ball bearings	Option	00	Consult us
All	No thrust bearing, with roller bearings	Option	01	Consult us

U F R 0 0 0 3



Mechanical Interface
See base configurations table on previous page

Shaft End
See Table below

Shaft End	Availability	Code
Hollow Shaft with keyway	Standard	0
Hollow Shaft with spline profile, module 0.8	Option	1
Hollow Shaft with spline profile, module 1	Option	2
Hollow Shaft with spline profile, module 1.5	Option	3
Hollow Shaft with spline profile, module 2	Option	4
Hollow Shaft with spline profile, module 2.5	Option	5
Hollow Shaft with spline profile, module 3	Option	6
Full shaft, smooth	Option	7
Full shaft, with keyway	Option	8
Other (Consult us)	Option	9

Extruder Screw Extraction/Cooling

- F: Frontside extruder screw extraction
- P: Frontside extruder screw extraction
Extruder screw cooling possibility
- R: Backside extruder screw extraction (consult us)
Extruder screw cooling possibility
- Z: No screw extraction - No screw cooling possibility

Terminal Box

- U: Upper Rear (Standard)
- L: At the rear on the Left side (front view) (Option)
- R: At the rear on the Right side (front view) (Option)

TMW Series - 400 VAC Power Supply ⁽¹⁾

Model	Pn (kW)	Nn (rpm)	Mn (Nm)	In (Arms)	Nmax (rpm)	Mmax (Nm)	Inertia (kgm ²)	Water flow rate (l/min)	Drive reference ⁽²⁾
50 - 75 rpm									
TMW305LU	29	70	3940	68	80	5880	4,40	17	AC890SD/4/0073E
TMW306LV	38	75	4830	86	85	7200	4,55	20	AC890SD/4/0087E
TMW406LV	81	75	10300	169	90	15300	16,20	28	AC890SD/4/0180F
TMW408LW	90	60	14200	197	75	21000	19,40	37	AC890SD/4/0216G
TMW40ALW	95	50	18200	219	60	26800	25,10	47	AC890SD/4/0250G
TMW40CLW	116	50	22100	271	60	32500	25,90	56	AC890SD/4/0316G
TMW40CLS	161	70	22000	348	85	32500	25,90	56	AC890SD/4/0420H
75 - 100 rpm									
TMW304LR	32	100	3040	70	115	4550	3,45	14	AC890SD/4/0073E
TMW305LT	39	95	3930	84	115	5880	4,40	17	AC890SD/4/0087E
TMW308LU	59	85	6620	133	105	9870	6,50	27	AC890SD/4/0145F
TMW30ALU	71	80	8430	163	95	12500	6,80	34	AC890SD/4/0180F
TMW30ALS	88	100	8410	191	125	12500	6,80	34	AC890SD/4/0216G
TMW406LS	108	100	10300	216	125	15300	16,20	28	AC890SD/4/0250G
TMW408LS	126	85	14200	261	105	21000	19,40	38	AC890SD/4/0316G
TMW408LP	148	100	14100	306	120	21000	19,40	38	AC890SD/4/0361G
TMW40ALQ	151	80	18100	313	100	26800	25,10	47	AC890SD/4/0361G
TMW40CLK	207	90	21900	428	110	32500	25,90	57	AC890SD/4/0520H
100 - 125 rpm									
TMW204LU	15	120	1220	35	140	1810	0,75	9	AC890SD/5/0045D
TMW205LT	21	125	1570	47	155	2320	0,78	11	AC890SD/5/0059D
TMW208LU	30	110	2640	71	125	3910	1,03	18	AC890SD/4/073E
TMW304LQ	40	125	3030	81	150	4550	3,45	14	AC890SD/4/0087E
TMW306LS	53	105	4810	115	130	7200	4,55	21	AC890SD/4/0105F
TMW306LR	63	125	4800	129	155	7200	4,55	21	AC890SD/4/0145F
TMW308LQ	79	115	6590	167	140	9870	6,50	28	AC890SD/4/0180F
TMW30ALQ	105	120	8380	216	150	12500	6,80	34	AC890SD/4/0250G
TMW406LP	134	125	10200	266	155	15300	16,20	29	AC890SD/4/0316G
TMW40ALM	198	105	18000	398	130	26800	25,10	47	AC890SD/4/0480H
TMW40ALK	225	120	17900	446	150	26800	25,10	48	AC890SD/4/0590J
TMW40CLI	274	120	21800	536	150	32500	25,90	57	AC890SD/4/0685K

⁽¹⁾ Other speeds available, consult us.

⁽²⁾ This reference corresponds to the optimum drive for operation at nominal point.
May be adapted regarding the application requirements

TMW Series - 400 VAC Power Supply ⁽¹⁾

Model	Pn (kW)	Nn (rpm)	Mn (Nm)	In (Arms)	Nmax (rpm)	Mmax (Nm)	Inertia (kgm ²)	Water flow rate (l/min)	Drive reference ⁽²⁾
125 - 150 rpm									
TMW207LS	31	130	2280	70	160	3380	1,00	15	AC890SD/4/073E
TMW208LT	39	140	2630	86	175	3910	1,03	18	AC890SD/4/0087E
TMW305LP	59	145	3900	118	180	5880	4,40	17	AC890SD/4/0105F
TMW308LN	100	145	6560	198	180	9870	6,50	28	AC890SD/4/0216G
TMW406LJ	160	150	10200	306	180	15300	16,20	29	AC890SD/4/0361G
TMW408LL	198	135	14000	388	165	21000	19,40	38	AC890SD/4/0480H
TMW40ALH	270	145	17800	526	180	26800	25,10	48	AC890SD/4/0685K
TMW40CLG	318	140	21700	626	175	32500	25,90	57	AC890SD/4/0798K
150 - 175 rpm									
TMW204LR	22	175	1210	47	215	1810	0,75	9	AC890SD/5/0059D
TMW206LR	33	165	1920	71	205	2850	0,81	13	AC890SD/4/073E
TMW207LR	39	165	2270	85	205	3380	1,00	16	AC890SD/4/0087E
TMW305LN	67	165	3880	133	205	5880	4,40	17	AC890SD/4/0145F
TMW306LN	82	165	4760	161	205	7200	4,55	21	AC890SD/4/0180F
TMW308LM	116	170	6530	225	210	9870	6,50	28	AC890SD/4/0250G
TMW30ALN	135	155	8330	268	190	12500	6,80	35	AC890SD/4/0316G
TMW406LI	185	175	10100	353	215	15300	16,20	29	AC890SD/4/0420H
TMW408LJ	226	155	13900	434	190	21000	19,40	38	AC890SD/4/0520H
TMW40ALE	324	175	17700	626	205	26800	25,10	48	AC890SD/4/0798K
175 - 200 rpm									
TMW206LQ	40	200	1910	83	250	2850	0,81	13	AC890SD/4/0087E
TMW208LQ	55	200	2620	114	250	3910	1,03	18	AC890SD/4/0105F
TMW304LM	58	185	3000	114	230	4550	3,45	14	AC890SD/4/0105F
TMW306LL	99	200	4730	191	240	7200	4,55	21	AC890SD/4/0216G
TMW308LK	136	200	6490	261	250	9870	6,50	28	AC890SD/4/0316G
TMW30ALL	156	180	8290	305	225	12500	6,80	35	AC890SD/4/0361G
TMW406LH	209	200	10000	391	250	15300	16,20	29	AC890SD/4/0480H
TMW408LF	289	200	13800	538	250	21000	19,40	39	AC890SD/4/0590J
200 - 250 rpm									
TMW205LQ	34	205	1560	70	255	2320	0,78	11	AC890SD/4/073E
TMW207LN	59	250	2260	119	310	3380	1,00	16	AC890SD/4/0105F
TMW208LP	63	230	2620	128	280	3910	1,03	18	AC890SD/4/0145F
TMW304LL	67	215	2980	128	265	4550	3,45	14	AC890SD/4/0145F
TMW305LK	87	215	3840	165	265	5880	4,40	18	AC890SD/4/0180F
TMW306LI	118	240	4690	224	300	7200	4,55	21	AC890SD/4/0250G
TMW308LH	165	245	6420	311	305	9870	6,50	29	AC890SD/4/0361G
TMW30ALJ	185	215	8230	354	265	12500	6,80	35	AC890SD/4/0420H
TMW30ALH	210	245	8170	396	305	12500	6,80	36	AC890SD/4/0480H
TMW406LG	239	230	9930	440	285	15300	16,20	30	AC890SD/4/0520H

⁽¹⁾ Other speeds available, consult us.

⁽²⁾ This reference corresponds to the optimum drive for operation at nominal point.
May be adapted regarding the application requirements

TMW Series - 400 VAC Power Supply ⁽¹⁾

Model	Pn (kW)	Nn (rpm)	Mn (Nm)	In (Arms)	Nmax (rpm)	Mmax (Nm)	Inertia (kgm ²)	Water flow rate (l/min)	Drive reference ⁽²⁾
250 - 300 rpm									
TMW204LP	35	280	1200	70	350	1810	0,75	9	AC890SD/4/0073E
TMW205LP	42	260	1550	85	325	2320	0,78	11	AC890SD/4/0087E
TMW206LM	60	300	1900	116	375	2850	0,81	14	AC890SD/4/0105F
TMW207LM	68	290	2250	134	360	3380	1,00	16	AC890SD/4/0145F
TMW304LH	90	295	2920	167	350	4550	3,45	15	AC890SD/4/0180F
TMW305LH	105	265	3800	196	325	5880	4,40	18	AC890SD/4/0216G
TMW305LF	116	295	3770	217	365	5880	4,40	18	AC890SD/4/0250G
TMW308LG	183	275	6370	343	340	9870	6,50	29	AC890SD/4/0420H
300 - 350 rpm									
TMW204LM	45	355	1200	85	440	1810	0,75	9	AC890SD/4/0087E
TMW206LL	69	350	1890	131	435	2850	0,81	14	AC890SD/4/0145F
TMW208LL	84	310	2600	163	385	3910	1,03	18	AC890SD/4/0180F
TMW306LG	147	305	4610	271	370	7200	4,55	22	AC890SD/4/0316G
TMW306LF	154	320	4590	283	385	7200	4,55	22	AC890SD/4/0361G
350 - 400 rpm									
TMW205LL	60	370	1540	113	460	2320	0,78	11	AC890SD/4/0105F
TMW205LK	64	400	1530	128	500	2320	0,78	11	AC890SD/4/0145F
TMW206LJ	79	400	1880	151	500	2850	0,81	14	AC890SD/4/0180F
TMW207LJ	88	375	2240	167	465	3380	1,00	16	AC890SD/4/0180F
TMW207LI	93	400	2230	181	500	3380	1,00	16	AC890SD/4/0216G
TMW208LJ	102	375	2580	193	465	3910	1,03	18	AC890SD/4/0216G
TMW208LH	108	400	2580	213	500	3910	1,03	18	AC890SD/4/0250G
TMW304LE	109	365	2860	199	425	4550	3,45	15	AC890SD/4/0216G
TMW304LC	119	400	2830	220	475	4550	3,45	15	AC890SD/4/0250G
TMW305LC	149	390	3660	271	450	5880	4,40	19	AC890SD/4/0316G

⁽¹⁾ Other speeds available, consult us.

⁽²⁾ This reference corresponds to the optimum drive for operation at nominal point.
May be adapted regarding the application requirements

TMW Series - 480 VAC Power Supply ⁽¹⁾

Model	Pn (kW)	Nn (rpm)	Mn (Nm)	In (Arms)	Nmax (rpm)	Mmax (Nm)	Inertia (kgm ²)	Water flow rate (l/min)	Drive reference ⁽²⁾
50 - 75 rpm									
TMW408LW	112	75	14200	196	90	21000	19,40	37	AC890SD/4/0216G
TMW40ALW	114	60	18100	219	70	26800	25,10	47	AC890SD/4/0250G
TMW40CLW	150	65	22000	271	75	32500	25,90	56	AC890SD/4/0316G
75 - 100 rpm									
TMW305LU	35	85	3930	67	95	5880	4,40	17	AC890SD/4/0073E
TMW306LV	45	90	4820	86	100	7200	4,55	20	AC890SD/4/0087E
TMW30ALU	88	100	8410	162	120	12500	6,80	34	AC890SD/4/0180F
TMW406LV	97	90	10300	169	105	15300	16,20	28	AC890SD/4/0180F
TMW40ALQ	179	95	18000	312	115	26800	25,10	47	AC890SD/4/0361G
TMW40CLS	195	85	22000	347	100	32500	25,90	56	AC890SD/4/0420H
100 - 125 rpm									
TMW304LR	40	125	3030	70	140	4550	3,45	14	AC890SD/4/0073E
TMW305LT	47	115	3920	84	135	5880	4,40	17	AC890SD/4/0087E
TMW308LU	76	110	6600	133	135	9870	6,50	27	AC890SD/4/0145F
TMW30ALS	110	125	8370	190	155	12500	6,80	34	AC890SD/4/0216G
TMW406LS	129	120	10200	215	145	15300	16,20	28	AC890SD/4/0250G
TMW408LS	155	105	14100	260	125	21000	19,40	38	AC890SD/4/0316G
TMW408LP	184	125	14100	304	145	21000	19,40	38	AC890SD/4/0361G
TMW40CLK	252	110	21800	426	130	32500	25,90	57	AC890SD/4/0520H
125 - 150 rpm									
TMW204LU	19	150	1210	35	170	1810	0,75	9	AC890SD/5/0045D
TMW208LU	37	135	2630	71	150	3910	1,03	18	AC890SD/4/073E
TMW304LQ	47	150	3020	81	180	4550	3,45	14	AC890SD/4/0087E
TMW306LS	68	135	4790	114	165	7200	4,55	21	AC890SD/4/0105F
TMW308LQ	100	145	6560	167	175	9870	6,50	28	AC890SD/4/0180F
TMW30ALQ	127	145	8350	215	180	12500	6,80	34	AC890SD/4/0250G
TMW40ALM	243	130	17900	396	160	26800	25,10	47	AC890SD/4/0480H
TMW40ALK	271	145	17800	444	180	26800	25,10	48	AC890SD/4/0590J
TMW40CLI	329	145	21700	533	180	32500	25,90	57	AC890SD/4/0685K

⁽¹⁾ Other speeds available, consult us.

⁽²⁾ This reference corresponds to the optimum drive for operation at nominal point.
May be adapted regarding the application requirements

TMW Series - 480 VAC Power Supply ⁽¹⁾

Model	Pn (kW)	Nn (rpm)	Mn (Nm)	In (Arms)	Nmax (rpm)	Mmax (Nm)	Inertia (kgm ²)	Water flow rate (l/min)	Drive reference ⁽²⁾
150 - 175 rpm									
TMW205LT	25	155	1560	47	190	2320	0,78	11	AC890SD/5/0059D
TMW207LS	38	160	2270	70	195	3380	1,00	15	AC890SD/4/073E
TMW208LT	48	175	2630	86	215	3910	1,03	18	AC890SD/4/0087E
TMW305LP	71	175	3880	117	215	5880	4,40	17	AC890SD/4/0105F
TMW306LR	77	155	4770	128	190	7200	4,55	21	AC890SD/4/0145F
TMW308LN	120	175	6520	197	215	9870	6,50	28	AC890SD/4/0216G
TMW406LP	165	155	10100	264	190	15300	16,20	29	AC890SD/4/0316G
TMW408LL	240	165	13900	385	200	21000	19,40	38	AC890SD/4/0480H
TMW40ALH	324	175	17700	522	215	26800	25,10	48	AC890SD/4/0685K
TMW40CLG	394	175	21500	621	215	32500	25,90	57	AC890SD/4/0798K
175 - 200 rpm									
TMW306LN	99	200	4730	160	245	7200	4,55	21	AC890SD/4/0180F
TMW30ALN	165	190	8270	267	230	12500	6,80	35	AC890SD/4/0316G
TMW406LJ	190	180	10100	304	215	15300	16,20	29	AC890SD/4/0361G
TMW408LJ	268	185	13800	431	225	21000	19,40	38	AC890SD/4/0520H
200 - 225 rpm									
TMW204LR	27	215	1210	47	260	1810	0,75	9	AC890SD/5/0059D
TMW206LR	41	205	1910	71	250	2850	0,81	13	AC890SD/4/073E
TMW207LR	49	205	2270	84	250	3380	1,00	16	AC890SD/4/0087E
TMW304LM	70	225	2970	113	275	4550	3,45	14	AC890SD/4/0105F
TMW305LN	83	205	3850	132	250	5880	4,40	17	AC890SD/4/0145F
TMW308LM	139	205	6480	224	250	9870	6,50	28	AC890SD/4/0250G
TMW30ALL	189	220	8220	303	275	12500	6,80	35	AC890SD/4/0361G
TMW406LI	225	215	9970	349	260	15300	16,20	29	AC890SD/4/0420H
TMW40ALE	393	215	17500	619	250	26800	25,10	48	AC890SD/4/0798K
225 - 250 rpm									
TMW206LQ	50	250	1900	83	310	2850	0,81	13	AC890SD/4/0087E
TMW208LQ	68	250	2610	114	310	3910	1,03	18	AC890SD/4/0105F
TMW306LL	120	245	4680	189	290	7200	4,55	21	AC890SD/4/0216G
TMW308LK	162	240	6430	259	300	9870	6,50	28	AC890SD/4/0316G
TMW406LH	249	240	9890	387	300	15300	16,20	29	AC890SD/4/0480H
TMW408LF	342	240	13600	532	295	21000	19,40	39	AC890SD/4/0590J

⁽¹⁾ Other speeds available, consult us.

⁽²⁾ This reference corresponds to the optimum drive for operation at nominal point.
May be adapted regarding the application requirements

TMW Series - 480 VAC Power Supply ⁽¹⁾

Model	Pn (kW)	Nn (rpm)	Mn (Nm)	In (Arms)	Nmax (rpm)	Mmax (Nm)	Inertia (kgm ²)	Water flow rate (l/min)	Drive reference ⁽²⁾
250 - 300 rpm									
TMW205LQ	42	255	1550	69	315	2320	0,78	11	AC890SD/4/073E
TMW208LP	78	285	2600	127	345	3910	1,03	18	AC890SD/4/0145F
TMW304LL	80	260	2950	127	320	4550	3,45	14	AC890SD/4/0145F
TMW305LK	104	260	3800	164	320	5880	4,40	18	AC890SD/4/0180F
TMW306LI	143	295	4620	221	365	7200	4,55	21	AC890SD/4/0250G
TMW308LH	199	300	6330	307	370	9870	6,50	29	AC890SD/4/0361G
TMW30ALJ	222	260	8140	351	320	12500	6,80	35	AC890SD/4/0420H
TMW30ALH	253	300	8060	391	370	12500	6,80	36	AC890SD/4/0480H
TMW406LG	281	275	9770	433	340	15300	16,20	30	AC890SD/4/0520H
300 - 350 rpm									
TMW204LP	43	345	1200	69	430	1810	0,75	9	AC890SD/4/0073E
TMW205LP	52	320	1550	84	400	2320	0,78	11	AC890SD/4/0087E
TMW207LN	73	310	2250	118	380	3380	1,00	16	AC890SD/4/0105F
TMW305LH	125	320	3740	194	390	5880	4,40	18	AC890SD/4/0216G
TMW308LG	220	335	6270	338	410	9870	6,50	29	AC890SD/4/0420H
350 - 400 rpm									
TMW206LM	72	365	1890	116	455	2850	0,81	14	AC890SD/4/0105F
TMW207LM	83	355	2240	134	440	3380	1,00	16	AC890SD/4/0145F
TMW208LL	102	375	2590	162	465	3910	1,03	18	AC890SD/4/0180F
TMW304LH	107	355	2870	164	420	4550	3,45	15	AC890SD/4/0180F
TMW305LF	139	360	3700	213	445	5880	4,40	18	AC890SD/4/0250G
TMW306LG	175	370	4520	266	445	7200	4,55	22	AC890SD/4/0316G
TMW306LF	181	385	4500	278	460	7200	4,55	22	AC890SD/4/0361G
400 - 450 rpm									
TMW204LM	54	435	1190	85	535	1810	0,75	9	AC890SD/4/0087E
TMW205LL	72	450	1530	113	555	2320	0,78	11	AC890SD/4/0105F
TMW206LL	83	420	1880	131	520	2850	0,81	14	AC890SD/4/0145F
TMW207LJ	106	455	2220	166	560	3380	1,00	16	AC890SD/4/0180F
TMW208LJ	122	455	2570	192	560	3910	1,03	18	AC890SD/4/0216G
TMW304LE	129	440	2790	194	510	4550	3,45	15	AC890SD/4/0216G
450 - 500 rpm									
TMW205LK	81	511	1520	127	630	2320	0,78	11	AC890SD/4/0145F
TMW206LJ	97	495	1860	150	615	2850	0,81	14	AC890SD/4/0180F
TMW207LI	116	500	2210	180	625	3380	1,00	16	AC890SD/4/0216G
TMW208LH	136	510	2550	211	635	3910	1,03	18	AC890SD/4/0250G
TMW304LC	143	500	2720	213	590	4550	3,45	15	AC890SD/4/0250G
TMW305LC	175	470	3550	264	540	5880	4,40	19	AC890SD/4/0316G

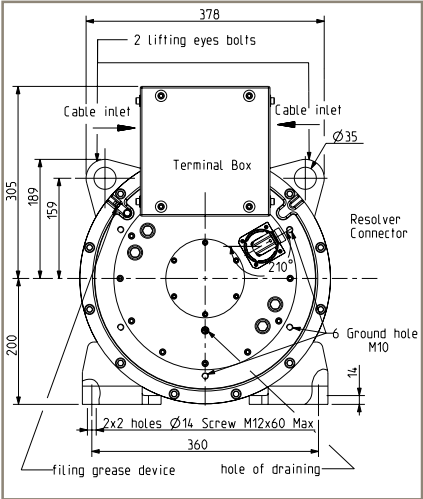
⁽¹⁾ Other speeds available, consult us.

⁽²⁾ This reference corresponds to the optimum drive for operation at nominal point.
May be adapted regarding the application requirements

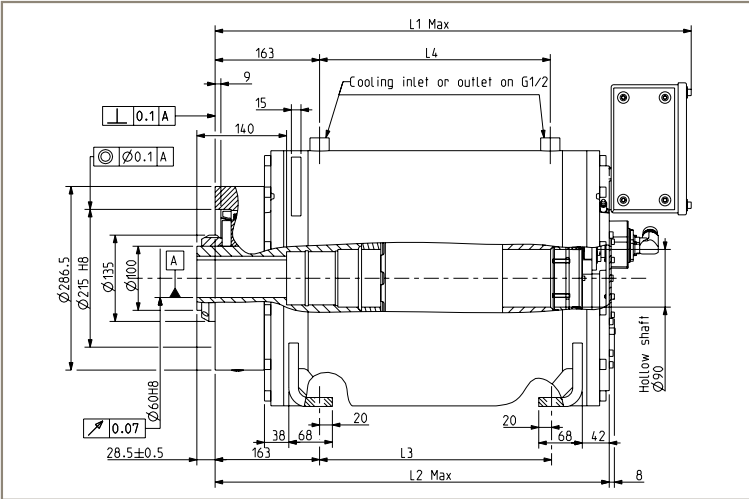
Dimensions Drawings :

Shaft Height 200 mm / Thrust Bearing 29420*

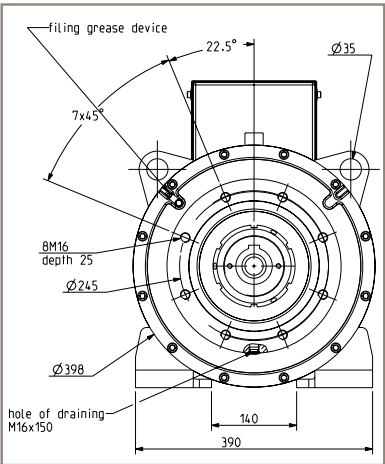
Rear view



Side view



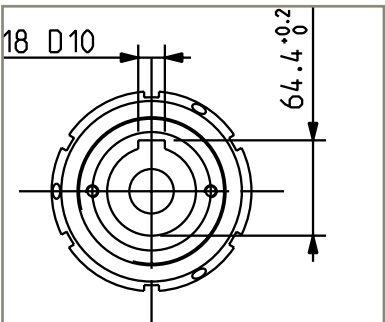
Front view



Dimensions (mm)

Model	L1 Max	L2 Max	L3	L4
TMW204	750	615	362	360
TMW205	750	615	362	360
TMW206	750	615	362	360
TMW208	850	715	462	460

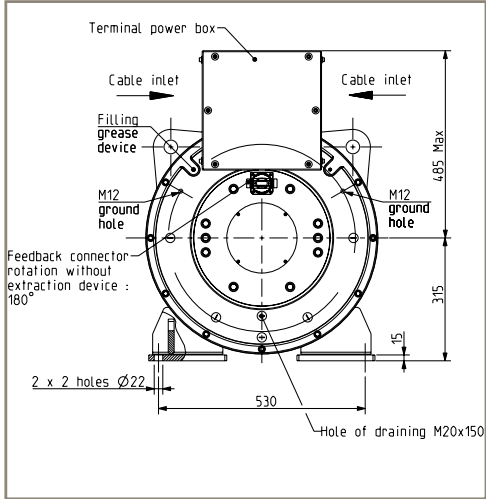
Shaft End



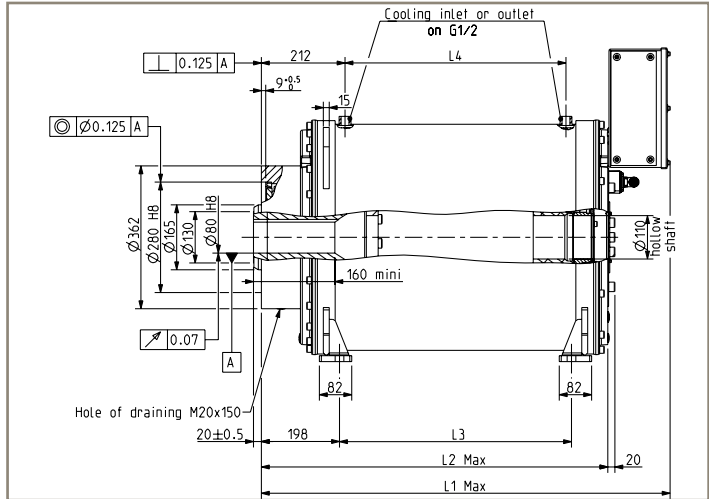
* Other Thrust Bearings available, consult us.

Dimensions Drawings : Shaft Height 315 mm / Thrust Bearing 29426*

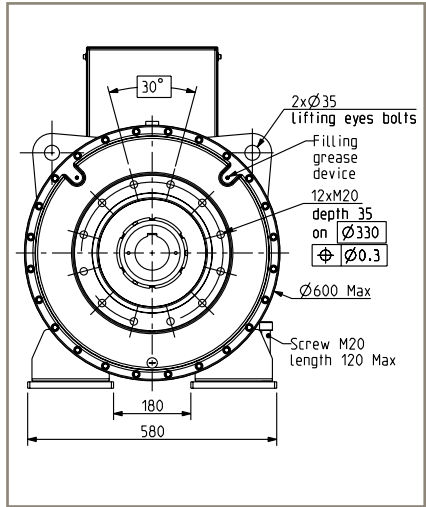
Rear view



Side view

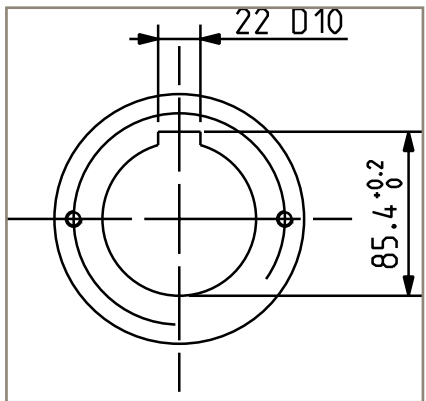


Front view



Dimensions (mm)				
Model	L1 Max	L2 Max	L3	L4
TMW304	740	580	288	260
TMW305	840	680	388	360
TMW306	840	680	388	360
TMW308	1040	880	588	560

Shaft End

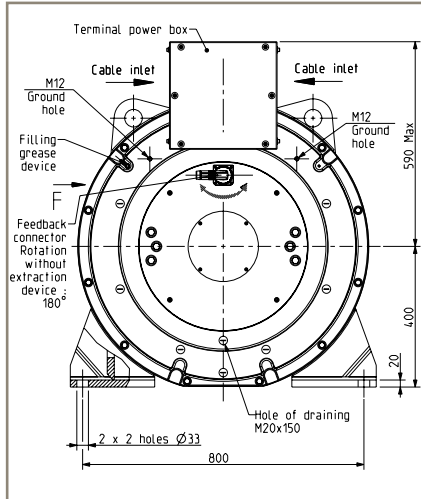


* Other Thrust Bearings available, consult us.

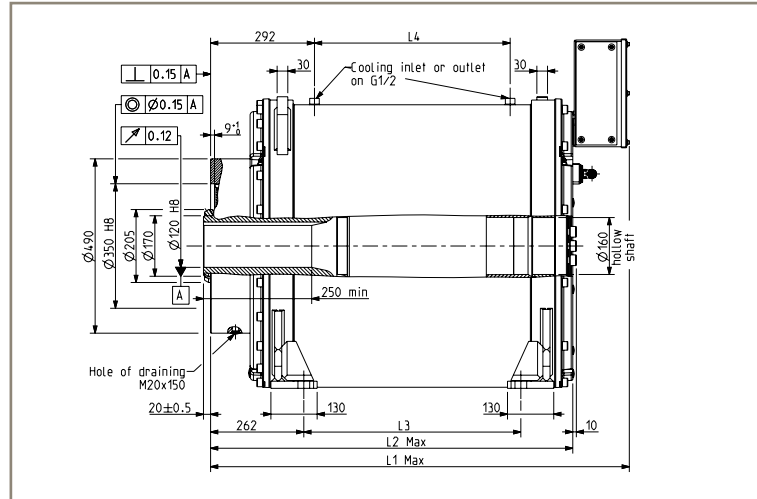
Dimensions Drawings :

Shaft Height 400 mm / Thrust Bearing 29434*

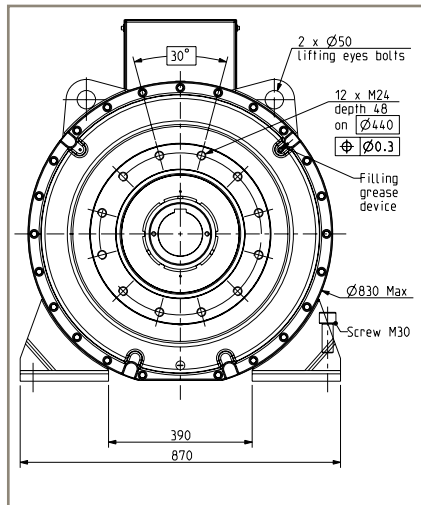
Rear view



Side view



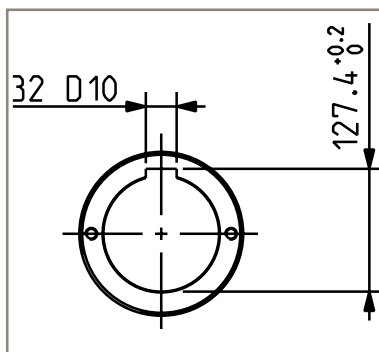
Front view



Dimensions (mm)

Model	L1 Max	L2 Max	L3	L4
TMW406	880	720	310	250
TMW408	980	820	410	350
TMW40A	1180	1020	610	550
TMW40C	1180	1020	610	550

Shaft End



* Other Thrust Bearings available, consult us.



ORDERING CONFIRMATION FORM

CUSTOMER : _____ APPLICATION : _____

MOTOR SERIES : TORQUE MOTORS NUMBER OF PIECES : _____

EXTRUDER DATA :	SCREW DIAMETER [mm]	BACK PRESSURE [bar]

MOTOR DATA :

	BASE SPEED	MAX. FIELD WEAKENING SPEED	
SPEED			[RPM]
POWER			[kW]
TORQUE			[N.m]

COOLING METHOD : Water Jacket (W) Natural Ventilation (A)

THRUST BEARING :

- SKF 29420 (20)
- SKF 29422 (22)
- SKF 29426 (26)
- SKF 29430 (30)
- SKF 29434 (34)
- SKF 29440 (40)
- SKF 29440 (40)
- NONE (00)

SCREW EXTRACTION / COOLING :

- Frontside extrusion screw extraction (F)
- Frontside extrusion screw extraction (P)
Screw cooling possible
- Backside extrusion screw extraction (R)
Screw cooling possible
- No Extrusion screw extraction - No Screw cooling (Z)

SHAFT END :

- Hollow shaft with keyway (0)
- Hollow shaft with spline profile [Module 0.8] (1)
- Hollow shaft with spline profile [Module 1] (2)
- Hollow shaft with spline profile [Module 1.5] (3)
- Hollow shaft with spline profile [Module 2] (4)
- Hollow shaft with spline profile [Module 2.5] (5)
- Hollow shaft with spline profile [Module 3] (6)
- Full shaft smooth (7)
- Full shaft with keyway (8)
- Special shaft end (9)

FEEDBACK SYSTEM :

- Geared Endat Encoder (C)
- Direct Endat Encoder with hollow shaft (B)
- Geared Resolver (A)

TERMINAL BOX POSITION : (4)

- Rear / Top (U)
- Rear / Left side (front view) (L)
- Rear / Right side (front view) (R)

DIMENSION DRAWING :

PRODUCT ORDER CODE N°:

Remarks :

SSD Parvex

SSD Parvex has been involved in the design and manufacture of electrical motors since its creation in 1948. Years after years, SSD Parvex managed to keep its know-how at the cutting edge of technology, building a complete range of AC, DC and torque motors.

Now part of Parker Hannifin's group, SSD Parvex continues

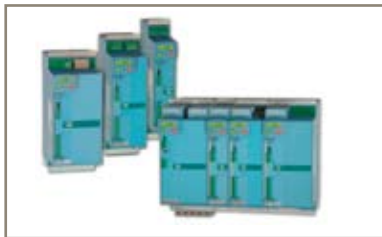
to bring its unique know-how and experience across various industries, serving machine builders as well as end-users.

- 1969 - DC Axem motors with flat rotor,
- 1994 - Synchronous motors for electrospindles,
- 1999 - Brushless servomotors in kit,
- 2005 - Torque motors



SSD Parvex plant in Dijon

SSD Parvex other solutions



AC890 System drives

- 0.55 to 1000kW
- Power supply 380-500Vac $\pm 10\%$
- Heating control of motor with prealarm
- Standard Fieldbus : Profibus-DP, DeviceNet, Ethernet
- System drives for both AC & Servo motors



NX Series Servomotors

- High dynamic and compact dimensions
- Insulation F class
- Rotor with concentrated-flux rare earth magnets
- 10 poles winding



EX Series - Atex Servomotors

- Explosive atmosphere servomotors according to ATEX 94/9/CE directive
- Maximum compactness, high dynamics
- Protection Flameproof "d" according to EN50018 standard.
- Integrated resolver



Electrospindles HW Series

- Speeds up to 50000 rpm
- High torque at low speed
- Rotor with permanent magnets at low inertia
- Insulation F class



Servomotors in Kit NK/NW

- Direct drive : Accurate and robust mechanics
- Complete and optimized solution including sensor and drive
- Air-cooling or water-cooling
- Integration assistance



DC Servomotors RS-RX Series

- High energy magnets motors
- High acceleration
- Low inertia
- Insulation F class

Sales Offices

CA - Canada, Milton
Parker Hannifin Canada - Motion
and Control Division
160 Chisholm Drive
Milton, Ontario L9T 3G9
Tel: +1 (905) 693 3011
Fax: +1 (905) 876 0788

CN - China, Shanghai
Parker China
280, Yun Qiao Road,
Jin Qiao Export Processing Zone
Shanghai 201 206
Tel: 86-21-2899 5000
Tel: +86 10 6561 0520

DE - Germany, Heppenheim
Parker Hannifin GmbH & Co. KG
Von-Humboldt-Strasse 10
D-64646 Heppenheim
Tel: +49 (6252) 7982 00
Fax: +49 (6252) 7982 05

DK - Denmark, Vejle
SSD Drives AB
Enghavevej 11
DK-7100 Vejle
Tel: +45 (0) 70 201311
Fax: +45 (0) 70 201312

ES - Spain, Gavá (Barcelona)
Parker Hannifin Group
Delegación Barcelona
C/. Enginy n°6, nave 8
Pol. Ind La Post
E-08850 Gavá (Barcelona)
Tel: +33 (0) 3 80 42 40 49
Fax: +33 (0) 3 80 42 41 39

FR - France, Dijon
Parker SSD Parvex SAS
8, Avenue du Lac
BP 249
F-21007 Dijon Cedex
Tel: +33 (0) 3 80 42 41 40
Fax: +33 3 80 42 41 39

IN - India, Chennai
SSD Drives India Pvt. Ltd
151, Developed Plots Estate
Perungudi, Chennai - 600 096
Tel: +91 44 4391 0703
Fax: +91 44 4313 2050

IT - Italy, Cinisello Balsamo /MI
Parker Hannifin SpA
SSD SBC
Via Gounod, 1
I-20092 Cinisello Balsamo - MI
Tel: +39 02 66012459
Fax: +39 02 66012808

KR - South Korea, Seoul
SSD Korea Co., Ltd
#1308, Daeryung Techno Town 8th
bldg, 481-11 Gasan-Dong,
Geumchéon-Gu,
Seoul 153-803, Korea
Tel: +82 (0) 2 2163 6677
Fax: +82 (0) 2 2163 8982

SE - Sweden, Halmstad
SSD Drives AB
Montörgatan 7
S-30260 Halmstad
Tel: +46 (0) 35 17 73 0
Fax: +46 (0) 35 10 84 07

UK, United Kingdom
Electromechanical & Drives Sales
Parker Hannifin Ltd
Tachbrook Park Drive
Tachbrook Park
Warwick CV34 6TU
Tel: +44 (0) 1926 317970
Fax: +44 (0)1926 317980

US - USA, Charlotte/NC
SSD Drives Inc
9225 Forsyth Park Drive
Charlotte
North Carolina 28273
Tel: +1 (704) 588 3246
Fax: +1 (704) 588 3249

