

# Permanent Magnet Brake



SG Transmission

TYPE 62

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The permanent magnet brakes from SG Transmission offer high power density, accuracy and durability within a compact module. Available as a standard option, customised to suit a specific installation position or designed as a completely bespoke solution, our permanent magnet brakes are manufactured with performance at the forefront.

Permanent magnet power off brakes work according to the closed-circuit principle, designed so that when the power is off, the brake is engaged (power-off brake engagement). The permanent magnet brake is available in the same mounting style as a conventional power on brake with flange or spigot mounting options therefore it is easier to incorporate in to existing designs.

Our design engineers can create customised armature styles depending on the application. Standard are supplied with C.L., C.C. and C.R. armature types and feature bores and keys to suit specific requirements.

## Benefits

- Zero backlash
- Power-off brake engagement
- Fail-safe
- Precise holding
- Low moment of inertia

## Features

- Horizontal and vertical mounting
- Special voltages/forces/mountings available on request
- Made in the UK

## Key applications

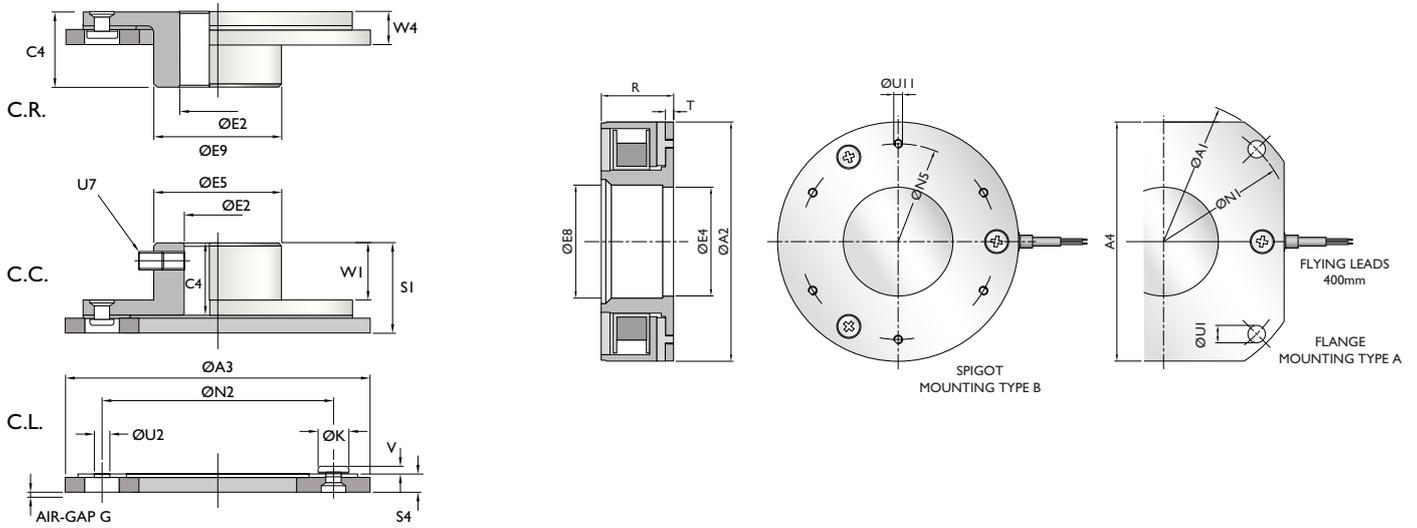
- Medical technology
- Robotics
- Servomotors



TYPE      SIZE      FIELD MOUNTING      ARMATURE TYPE      D.C. VOLTAGE      BORE

62 - 05 - P.M. BRAKE - A - C.L. - 24 - E2

## Technical data



### Type 62 (Standard)

Size	Torque TS (Nm)	Max P20 (W)	A1 (H9)	A2 (H8)	A3	A4 (AF)	C4	E2 max (H7)	E4 (H8)	E5	E8	E9	G	K	N1	N2	N5	R	S1	S4	T	U1	U2	U7	U11	V	W1	W4
03	0.4	6	38.5	28	28.5	30	7.8	8	9.2	17	9	-	0.15	4	33.5	19.5	22	16	10.5	2.7	1.5	2.6	2.15	M3	M2	1.6	5.3	-
04	1.25	8	62.5	40	40	45	14.2	8	13	16	13	12	0.15	6	54	29	32.5	21	17.5	3	3	3.5	3.2	M3	M2	1.5	12.2	5.3
05	2.5	12	75	53	56	56	17	15	24	24	24	23	0.20	6.5	61	46	48	20.8	20.5	3.4	3.3	4.5	3.1	M5	M3	1.5	13.5	7.0
06	9	20	80	63	63	66	15	17	35	27	32	27	0.20	6.5 8.0	72	46.0 50.0	49	26.6	19	4.1 3.8	3	4.5	3.1 4.1	M5	M4	1.5	11.5	7.5
07	5	20	90	70	73	70	20	20	30	30	32	30	0.25	8	79.5	60	61	25.3	24.2	4.2	3.5	5.5	4.1	M5	M3	1.5	15.0	9.2
09	12	18	115	85.5	90	90	25	30	40	40	43	40	0.25	10	102	76	75	26.6	30	5.0	3.5	6.5	5.1	M5	M3	2.0	20.0	10.0
11	30	22	132	110	110	110	30	35	50	49	52	49	0.30	13	121	95	90	33.0	36.2	6.2	3.75	6.5	6.1	M6	M4	4.7	24.0	12.2
12	60	28	150	126	126	128	30	40	62	57	62	49	0.40	12.5	137	95	106	37.8	37.2	7.1	5	6.6	6.1	M6	M6	3.2	20.0	13.0

### Type 62 (Special)

Size	Torque TS (Nm)	Max P20 (W)	A1 (H9)	A2 (H8)	A3	A4 (AF)	C4	E2 max (H7)	E4 (H8)	E5	E8	E9	G	K	N1	N2	N5	R	S1	S4	T	U1	U2	U7	U11	V	W1	W4
4 (HT)	2.2	8	62.5	*	40	45	*	*	15	*	13	*	0.15	6.5	54	29	32	23	*	5.05	2	3.5	3.2	*	*	1.5	*	*
6 (HT)	12	20	88.9	66	67.7	66	*	*	35/34	27	35/34	*	0.2	8	79.4	46	56	27.6	18.5	3.9	3	4.5	3.1	M5	3xM4	1.5	11.1	*
9 (HT)	22	18	115	*	90	90	*	*	40	*	43	*	0.25	10	102	76	*	26.6	*	5	3.5	6.5	5.1	*	*	2	*	*
11 (HT)	40	22	*	104	110	*	30	35	50 (56)	49	56	49	0.3	13	*	95	90	30.7	*	5.8	6	*	6.3	*	6xM4	2	*	12
16	120	40	190	*	160	ROUND	*	*	68	*	63	*	0.4	13	175	120	*	41.2	*	9.4	10	6x6.4	8.3	*	*	6	*	*

### Type 62 (Multi-pole)

Size	Torque TS (Nm)	Max P20 (W)	A1 (H9)	A2 (H8)	A3	A4 (AF)	C4	E2 max (H7)	E4 (H8)	E5	E8	E9	G	K	N1	N2	N5	R	S1	S4	T	U1	U2	U7	U11	V	W1	W4
08	18	24	100	80	80.2	80	20	22	35/42	38	38	32	0.25	8	90	60	63	29.9	24.7	4.7	3	5.5	4.1	M5	M4	1.5	16	8.7
09	22	18	115	*	90	90	*	*	40	*	43	*	0.25	10	102	76	*	26.7	*	5	3	6.5	5.2	*	*	2	*	*
10	35	22	*	100	100	*	*	*	52	*	52	*	0.3	10	*	78	76	37.5	*	5.8	5	*	5.1	*	M5	2	*	*
11	40	24	*	104 (H9)	109.6	*	*	*	56	*	58.5	*	0.3	12.8	*	95	90	30.7	*	5.8	6	*	6.4	*	M4	4.7	*	*

\* Available upon request