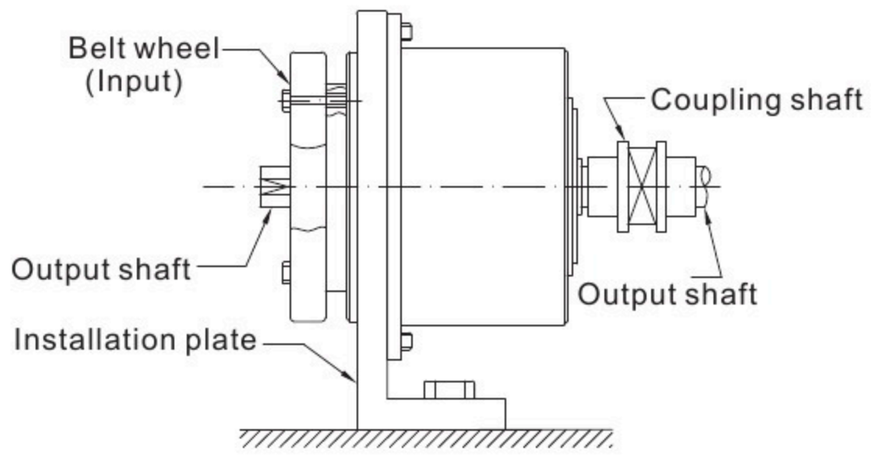
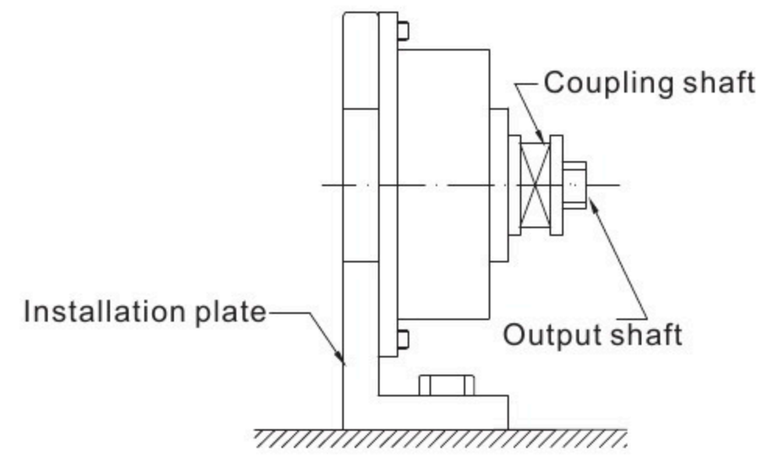
Powder Brake/clutch

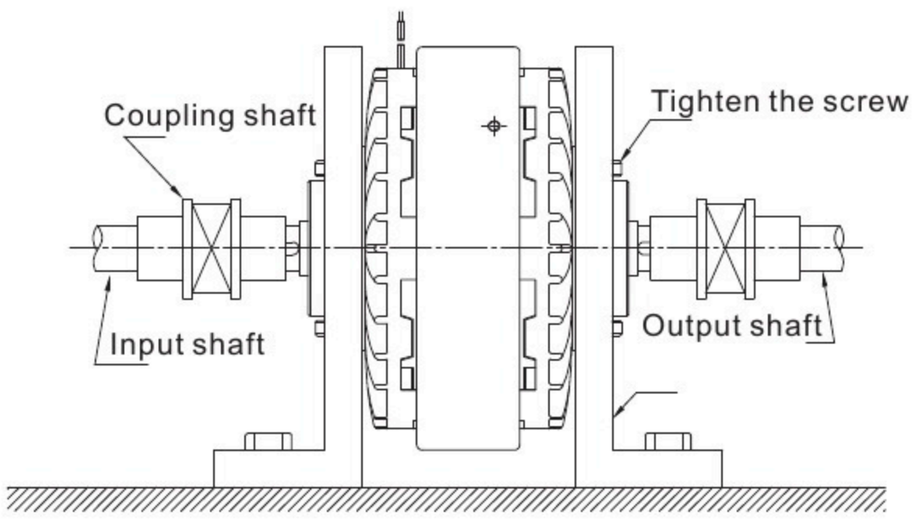
Installation



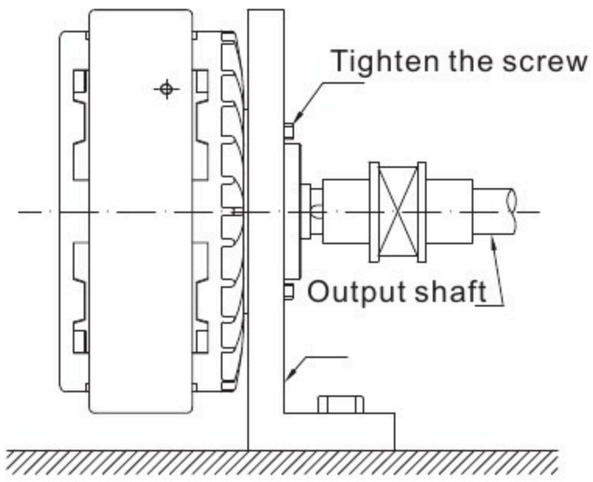
PMC Micro powder clutch installation



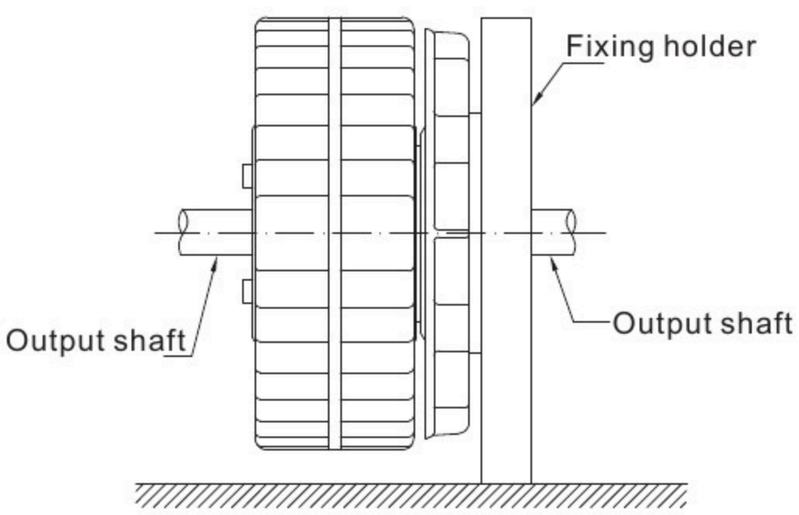
PMB Micro powder clutch installation



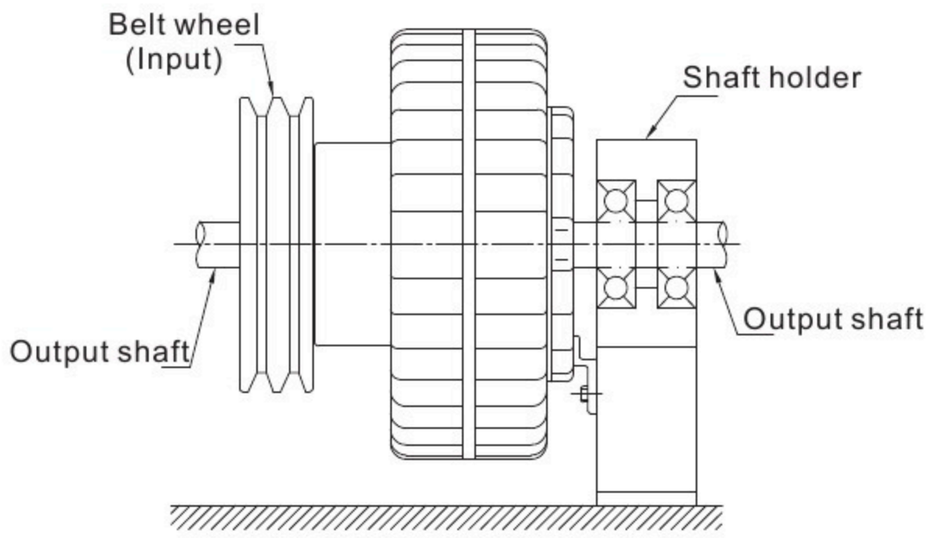
PC Biax type powder clutch installation



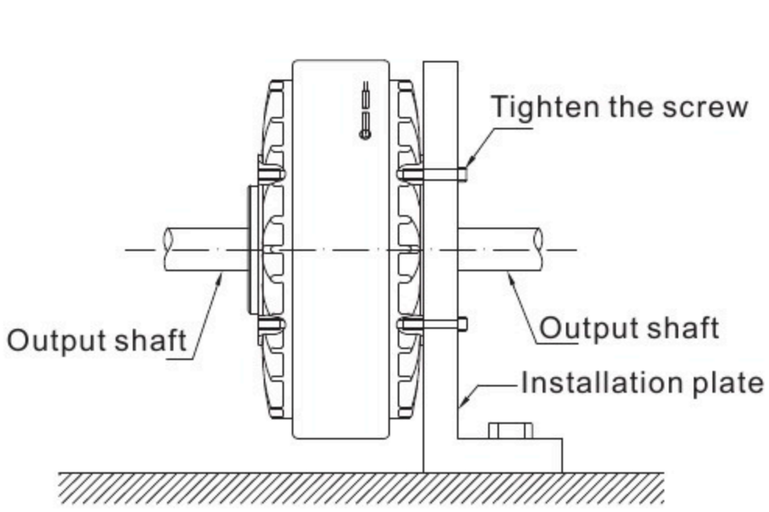
PB Single shaft powder clutch installation



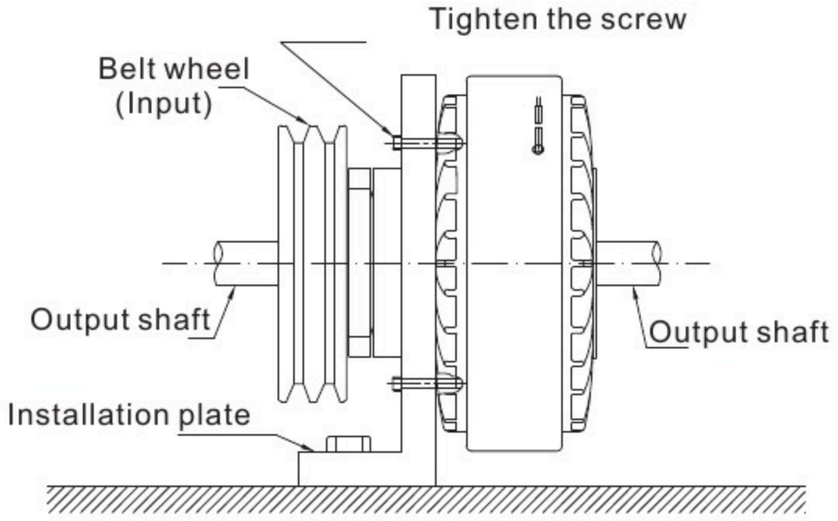
POB Hollow shaft powder clutch installation



POC Hollow shaft powder clutch installation



PBO Hollow shaft powder clutch installation

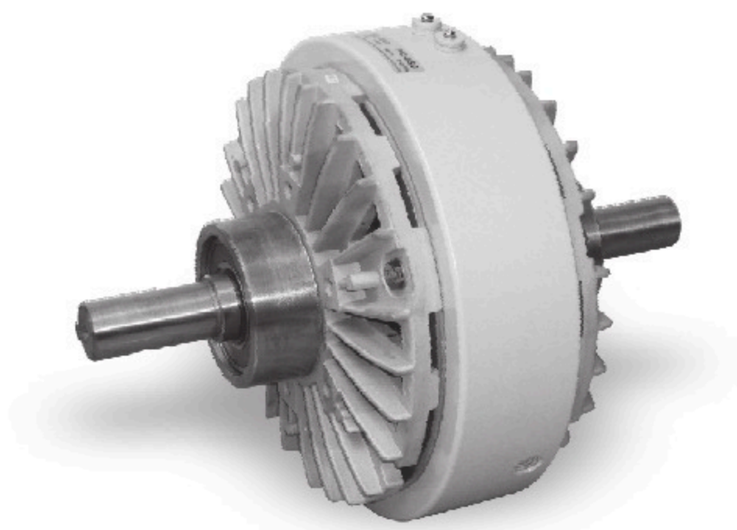


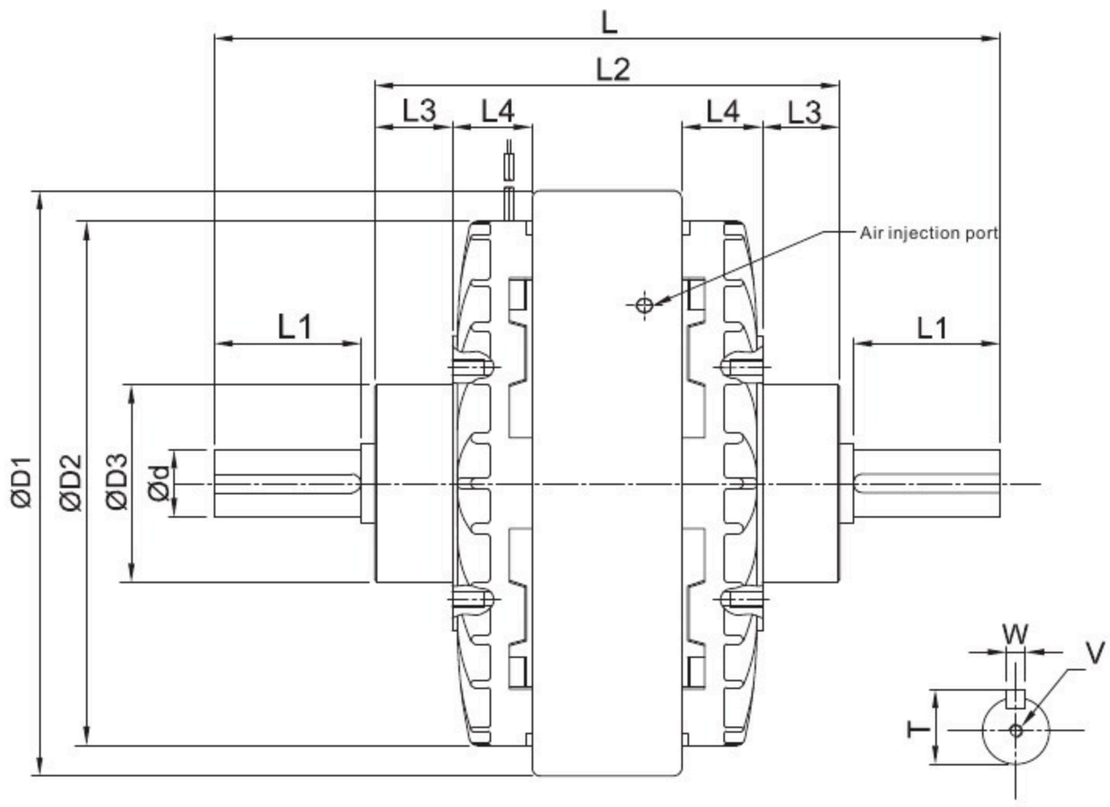
PCO Hollow shaft powder clutch installation

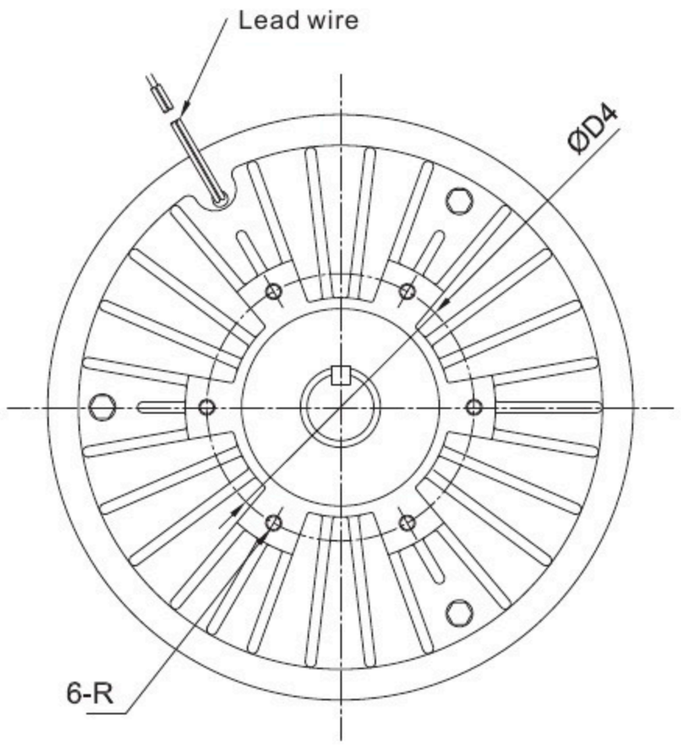
Powder Clutch (UTK-M)

Usage:

Maintain,connection,disconnection,buffer start,
tension control,torque limit,overload protection etc.







■ PARAMETER

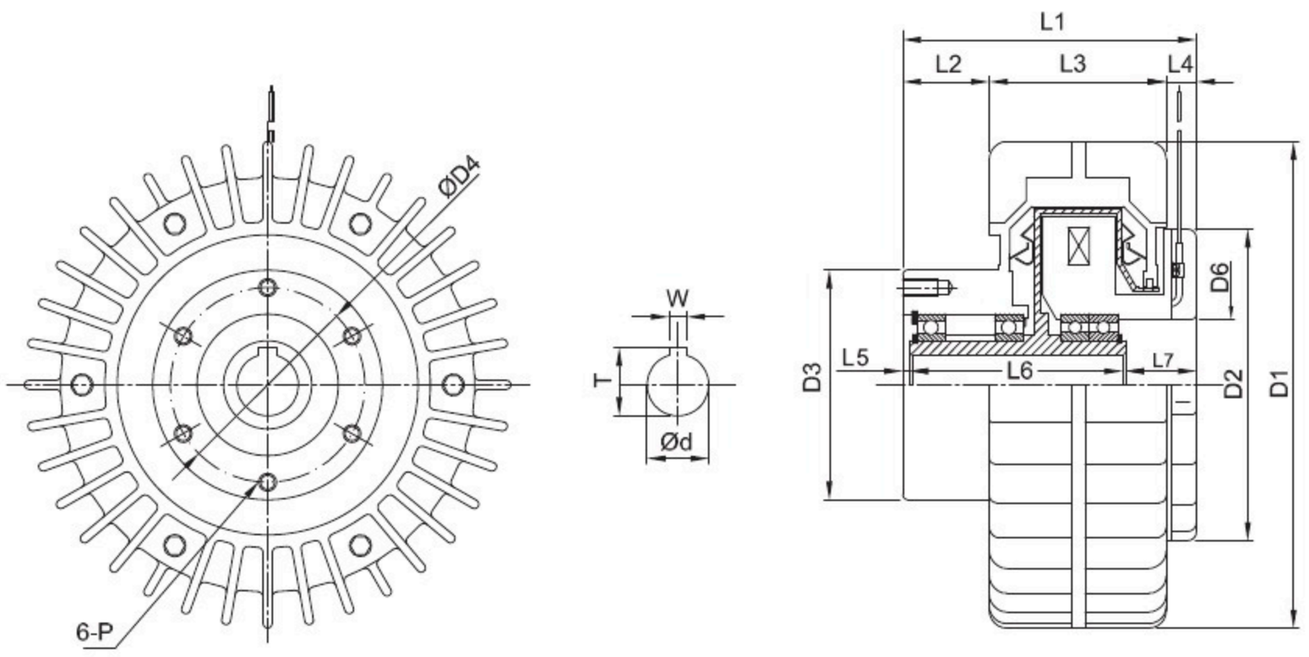
▶ Rated voltage: DC24V

MODEL		UTK-M 3nM	UTK-M 6nM	UTK-M 15nM	UTK-M 25nM	UTK-M 50nM	UTK-M 100nM	UTK-M 200nM	UTK-M 400nM
Rated torque[kgf-m](N-m)		0.3(3)	0.6(6)	1.2(12)	2.5(25)	5(50)	10(100)	20(200)	40(400)
Capacity DC24V (75°C)	Current(A)	0.53	0.81	0.94	1.24	2.15	2.4	2.7	3.5
	Power(W)	12.7	19.4	22.5	30	51.5	57.6	64.8	84
	No. of hour set(S)	0.08	0.08	0.1	0.12	0.13	0.25	0.37	0.4
Moment of inertia (Kgcm²)	Input side	$5.40*10^{-4}$	$7.30*10^{-4}$	$1.34*10^{-3}$	$3.8*10^{-3}$	$9.5*10^{-3}$	$3.5*10^{-2}$	$9.15*10^{-2}$	$2.4*10^{-1}$
	Output side	$2.01*10^{-4}$	$2.40*10^{-4}$	$4.90*10^{-4}$	$1.49*10^{-3}$	$4.8*10^{-3}$	$2.5*10^{-2}$	$6.89*10^{-2}$	$2.2*10^{-1}$
Allowed slippage rate with forced air cooling	Air pressure(Pa)	–	$3*10^{4}$	$3*10^{4}$	$5*10^{4}$	$1*10^{5}$	$6*10^{4}$	$5*10^{4}$	$2*10^{5}$
	Air volume(m³/min)	–	0.2	0.2	0.4	0.6	1.1	1.6	2.0
	Power(W)	–	110	250	380	700	1100	1900	2800
Weight (kg)		2.5	2.7	5.2	9	14.5	37	53	100
Maximum speed(r/min)		1800							
Weight of powder(g)		7.5	10	20	33	60	140	225	370
Exterior dimension	D1	120	125	152	182	219	278	327	395
	D2	75	110	126	160	196	260	301	365
	D3(g7)	42	42	42	55	74	100	110	130
	D4	64	64	64	78	100	140	150	200
	L	154	154	192	230	294	360	408	500
	L1	22	25	29	43	55	65	69	92
	L2	98	98	124	136	172	216	250	291
	L3	11	11	15	17	30	28	30	35
	L4	13.5	17	25.5	26	28	46	56	70
	d(h7)	10	12	15	20	25	30	35	45
	T($^{-0}_{-0.2}$)	11.5	13.5	17	22	28	33	38.5	48.5
	W(P7)	4		5		7		10	12
	V	M3*0.6P*6L	M4*0.7P*8L		M5*0.8P*10L	M6*1P*12L	M10*1.5P*20L		
	R	6-M5*0.8P*10L	6-M6*1P*10L				6-M10*1.5P*20L		8-M10*1.5P*15L
	S	–	1/8			1/4	3/8		

Powder Clutch UTK-D

Usage:
Maintain,connection,disconnection,buffer start,
tension control,torque limit,overload protection etc.





■ PARAMETER

▶ Rated voltage: DC24V

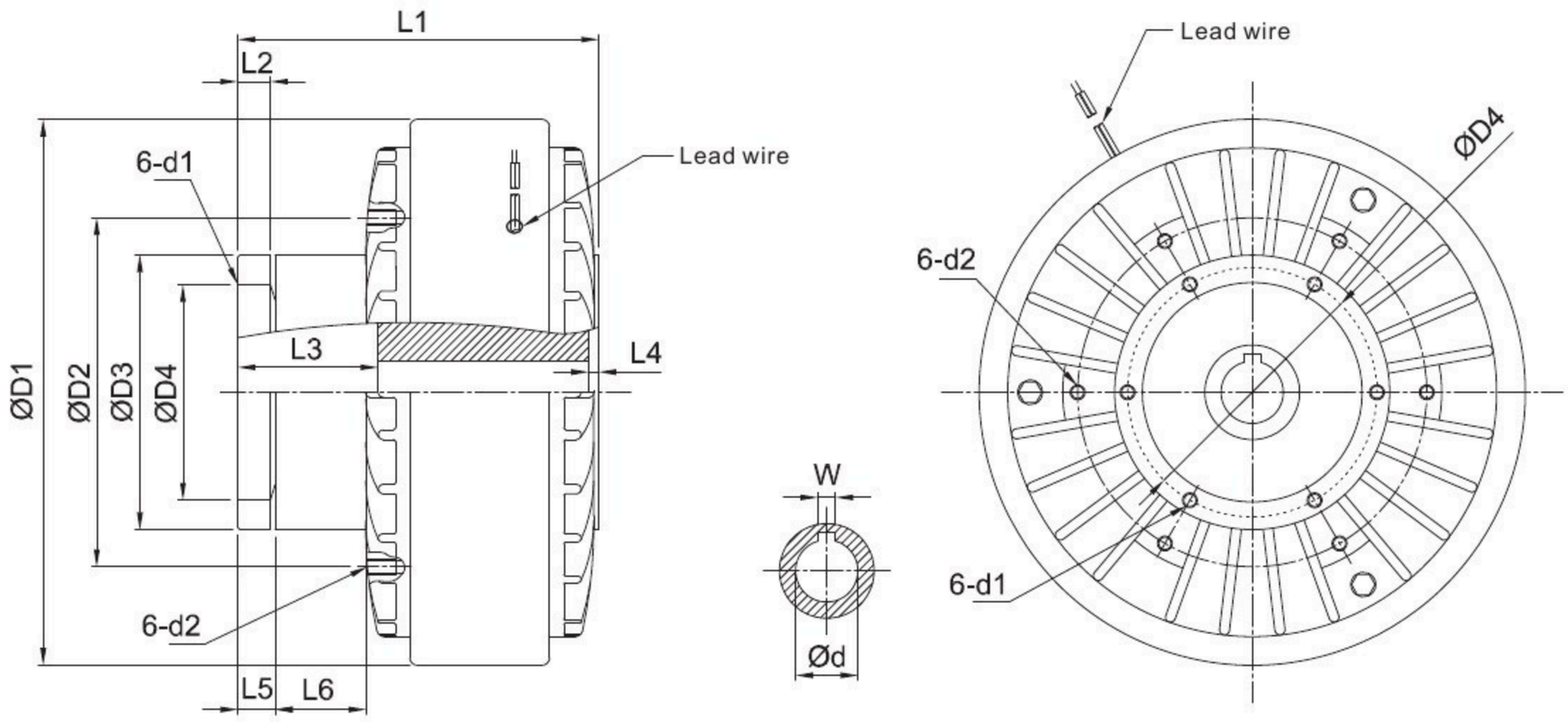
MODEL		UTK-D 6 nM	UTK-D 12 nM	UTK-D 25 nM	UTK-D 50 nM	UTK-D 100 nM	UTK-D 200 nM
Rated torque[kgf-m](N-m)		0.6(6)	1.2(12)	2.5(25)	5(50)	10(100)	20(200)
Capacity DC24V (75°C)	Current(A)	0.74	0.9	1.1	1.4	2.0	2.5
	Power(W)	17.8	21.6	26.4	33.6	48	60
	No. of hour set(S)	0.04	0.04	0.06	0.09	0.14	0.3
Moment of inertia (Kgcm²)	Input side	$2.70*10^{-3}$	$6.3*10^{-3}$	$1.2*10^{-2}$	$2.6*10^{-2}$	$7*10^{-2}$	$2.1*10^{-1}$
	Output side	$5.0*10^{-4}$	$1.1*10^{-3}$	$2.3*10^{-3}$	$5.8*10^{-3}$	$1.5*10^{-2}$	$5.0*10^{-2}$
Weight (kg)		2.7	5.2	9	14.5	37	53
Maximum speed(r/min)		1800					1000
Weight of powder(g)		14	25	39	60	117	255
Exterior dimension	L1	86	103	119	150	166	198
	L2	21	32	36	48	48	59
	L3	58	58	66	82	100	118
	L4	7	13	17	20	18	21
	L5	1	2	2	3	4	1
	L6	64	76	91	116	130	152
	L7	21	25	26	31	32	45
	D1	140	160	185	230	280	346
	D2	82	96	114	150	176	200
	D3(g7)	70	80	90	110	125	160
	D4	60	68	80	95	110	140
	D5	60	68	80	95	110	140
	D6	42	48	55	68	80	110
	P	M6*10L	M6*10L	M6*10L	M8*12L	M10*18L	M10*18L
	Q	M4*8L	M6*8L	M6*8L	M8*12L	M10*18L	M10*18L
	軸孔 d(H7)	15	18	20	30	35	45
	軸孔 W(F8)	4	5	6	8	10	14
	軸孔 $T(^{+0.2}_{0})$	16.5	20	22	33	38.5	49

Powder Clutch UPCO-D

Usage:

Maintain,connection,disconnection,buffer start,
tension control,torque limit,overload protection etc.





PARAMETER

▶ Rated voltage: DC24V

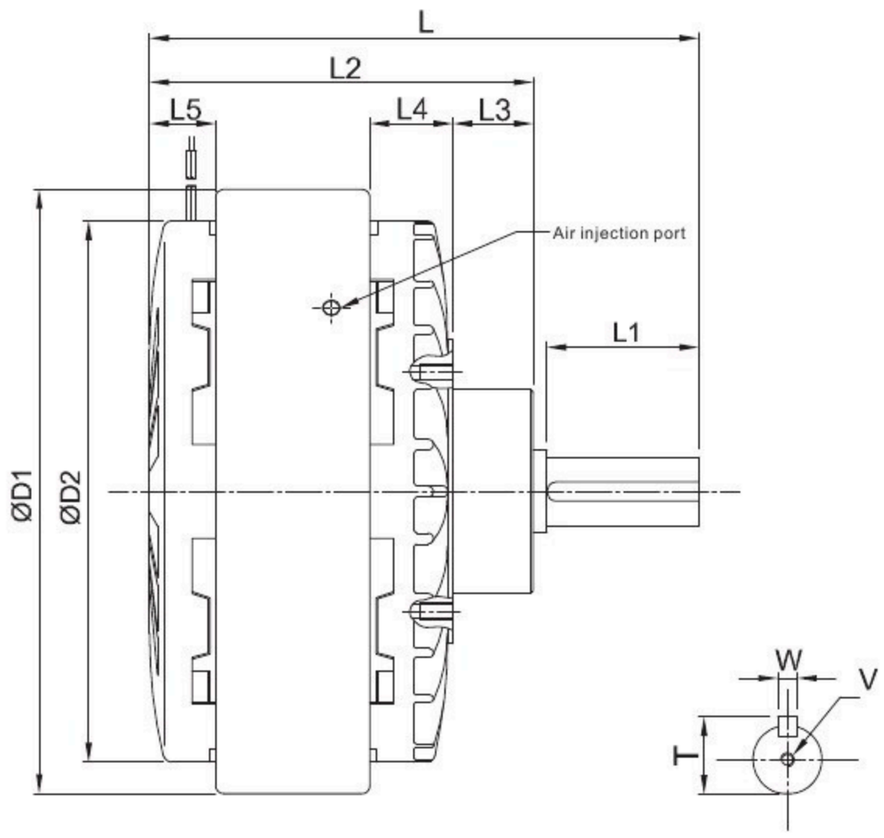
MODEL		UPCO-D 6nM	UPCO-D 12nM	UPCO-D 25nM	UPCO-D 50nM	UPCO-D 100nM	UPCO-D 200nM	UPCO-D 400 nM
Rated torque[kgf-m](N-m)		0.6(6)	1.2(12)	2.5(25)	5(50)	10(100)	20(200)	40(400)
Capacity DC24V (75°C)	Current(A)	0.9	1.0	2.0	2.3	2.5	2.5	3.0
	Power(W)	17.8	21.6	26.4	33.6	48	60	82
	No. of hour set(S)	0.10	0.10	0.12	0.13	0.25	0.37	0.4
Moment of inertia (Kgcm²)	Input side	$2.70*10^{-3}$	$6.3*10^{-3}$	$1.2*10^{-2}$	$2.6*10^{-2}$	$7*10^{-2}$	$2.1*10^{-1}$	$2.41*10^{-1}$
	Output side	$5.0*10^{-4}$	$1.1*10^{-3}$	$2.3*10^{-3}$	$5.8*10^{-3}$	$1.5*10^{-2}$	$5.0*10^{-2}$	$2.2*10^{-1}$
Maximum speed(r/min)		1500					1000	
Weight of powder(g)		14	25	39	60	117	255	370
Exterior dimension	L1	110	126	122	155	177	197	239
	L2	8	9	10	12	14	15	18
	L3	44	49	51	64	77	83	91
	L4	3	3	4	4	8	9	7
	L5	13	14	15	17	20	21	25
	L6	24	29	26	36	45	42	42
	D1	140	152	186	220	290	336	398
	D2	100	105	115	140	180	190	210
	D3(g7)	85	90	100	120	150	170	180
	D4	75	80	85	105	130	150	160
	d(H7)	16	20	25	30	35	45	50
	w(F7)	5	6	8	8	10	14	14
	d1*depth	M5*8L	M6*9L	M6*10L	M6*12L	M10*14L	M10*15L	M12*18L
	d2*depth	M5*10L	M6*12L	M6*12L	M6*14L	M10*15L	M10*16L	M12*19L

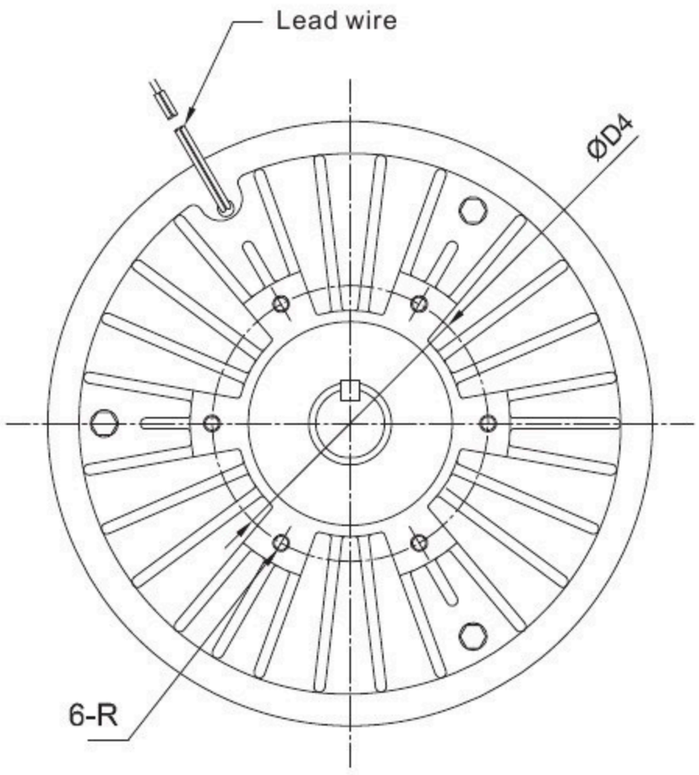
Powder Brake (UTF-M)

Usage:

Maintain,braking,buffer start,
tension control,torque limit etc.







■ PARAMETER

▶ Rated voltage: DC24V

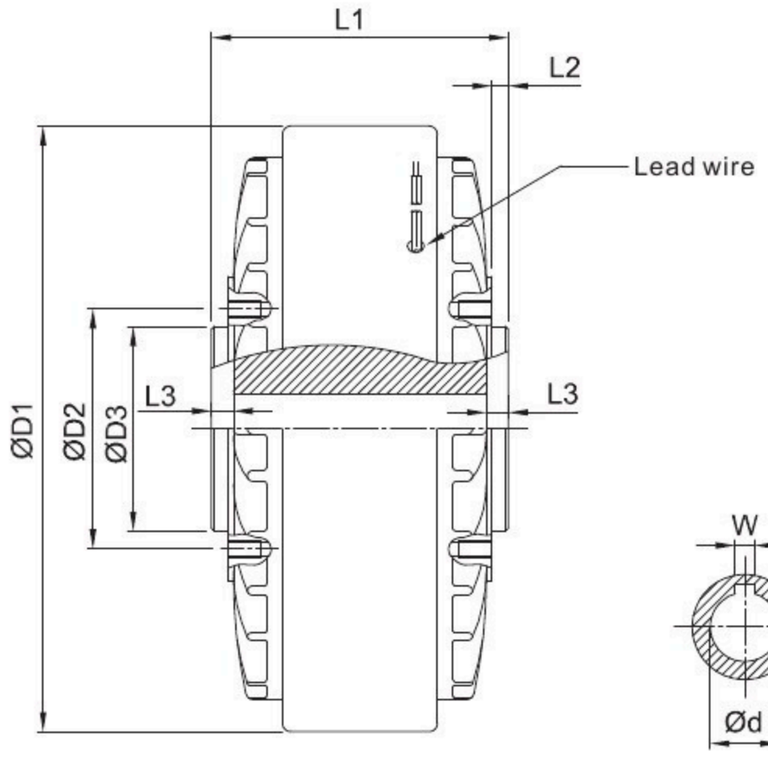
MODEL		UTF-M 3nM	UTF-M 6nM	UTF-M 12nM	UTF-M 25nM	UTF-M 50nM	UTF-M 100nM	UTF-M 200nM	UTF-M 400nM
Rated torque[kgf-m](N-m)		0.3(3)	0.6(6)	1.2(12)	2.5(25)	5(50)	10(100)	20(200)	40(400)
Capacity DC24V (75°C)	Current(A)	0.53	0.81	0.94	1.24	2.15	2.4	2.7	3.5
	Power(W)	12.7	19.4	22.5	30	51.5	57.6	64.8	84
	No. of hour set(S)	0.08	0.08	0.1	0.12	0.13	0.25	0.37	0.4
Moment of inertia(Kgcm²)		$3.00*10^{-4}$	$6.00*10^{-4}$	$1.34*10^{-3}$	$3.8*10^{-3}$	$9.5*10^{-3}$	$3.5*10^{-2}$	$9.15*10^{-2}$	$2.4*10^{-1}$
Allowed slippage rate with forced air cooling	Air pressure(Pa)	–	$3*10^{4}$	$3*10^{4}$	$5*10^{4}$	$1*10^{5}$	$6*10^{4}$	$5*10^{4}$	$2*10^{5}$
	Air volume(m^3/min)	–	0.2	0.2	0.4	0.6	1.1	1.6	2.0
	Power(W)	–	110	250	380	700	1100	1900	2800
Weight (kg)		2.0	2.1	4.5	7.6	12.5	34	45	90
Maximum speed(r/min)		1800							
Weight of powder(g)		7.5	10	20	33	60	140	225	370
Exterior dimension	D1	120	125	152	182	219	278	327	395
	D2	75	110	126	160	196	260	301	365
	D3(g7)	42	42	42	55	74	100	110	130
	D4	64	64	64	78	100	140	150	200
	L	106	106	132	155	193	239	278	338
	L1	22	25	29	43	55	65	69	92
	L2	78	69	98	108	132	167	199	234
	L3	6	11	15	17	30	28	30	35
	L4	14	17	25.5	26	28	46	56	70
	L5	12	12	14.5	15	18	21.5	32	40
	d(h7)	10	12	15	20	25	30	35	45
	T($^{0}_{-0.2}$)	11.5	13.5	17	22	28	33	38.5	48.5
	W(P7)	4		5		7		10	12
	V	M3*0.6P*6L	M4*0.7P*8L		M5*0.8P*10L	M6*1P*12L	M10*1.5P*20L		
	R	6-M5*0.8P*10L	6-M6*1P*10L				6-M10*1.5P*20L		8-M10*1.5P*15L
	S	–	1/8			1/4	3/8		

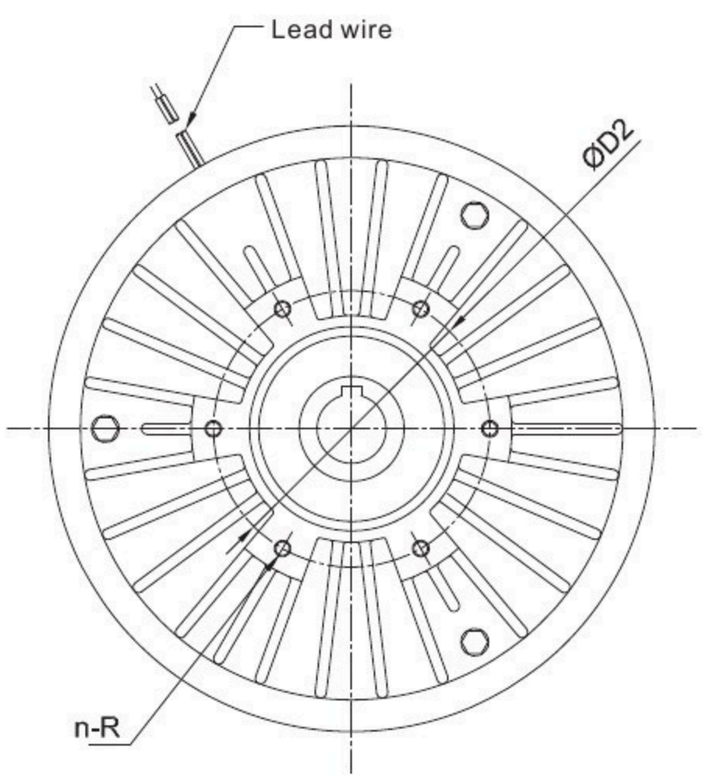
Powder Brake UTF-ED

Usage:

Maintain,braking,buffer start,
tension control,torque limit etc.







PARAMETER

▶ Rated voltage: DC24V

MODEL		UTF-ED 6nM	UTF-ED 12 nM	UTF-ED 25nM	UTF-ED 50nM	UTF-ED 100nM	UTF-ED 200nM	UTF-ED 400nM
Rated torque[kgf-m](N-m)		0.6(6)	1.2(12)	2.5(25)	5(50)	10(100)	20(200)	40(400)
Capacity DC24V (75°C)	Current(A)	0.5	0.6	0.8	1.0	1.2	1.8	2.5
	Power(W)	7.2	9.4	17.5	22.6	28.8	45.6	70
	No. of hour set(S)	0.10	0.10	0.12	0.13	0.25	0.37	0.4
Moment of inertia(Kgcm²)		$1.55*10^{-3}$	$5.55*10^{-3}$	$9.4*10^{-3}$	$2.3*10^{-2}$	$6.6*10^{-2}$	$2.0*10^{-1}$	–
Maximum speed(r/min)		1500					1000	
Weight of powder(g)		14	25	39	60	117	255	370
Exterior dimension	L1	68	70	78	84	126	138	172
	L2	3	3	3	3	3	3	6
	L3	4	4	7	4	13	14	21
	D1	126	152	172	220	258	298	370
	D2	75	82	105	130	150	180	200
	D3(g7)	42	65	90	110	120	150	160
	d(H7)	12	16	25	30	35	45	50
	w(F7)	4	5	8	8	10	14	14
	n-R*depth	6-M5*8L	6-M6*9L	6-M6*9L	6-M6*10L	6-M10*12L	6-M10*12L	6-M12*19L