



○ MODEL REFERENCE TABLE SELECTION

- There are two conditions for the use of the clutch:
 - 1. After the completion of the startup, add the load (for example, the lathe processing has reached a certain speed for cutting).
 - 2. Load has been added at startup (for example, when the conveyor belt starts up, the load has been connected and started at the same time).

Select table 1: load after startup.

Motor capa	acity r.p.m	100	200	300	400	500	600	700	800	900	1000	1100	1200	1500	1800	2000	2400	3000	3600	4000	4600	5000
0.015KW	1/50HP																					
0.035KW	1/20HP																					
0.065KW	1/12HP																					
0.1KW	1/8HP																					
0.125KW	1/5HP									1.2												
0.2KW	1/4HP																					
0.25KW	1/3HP																					
0.4KW	1/2HP																					
0.55KW	3/4HP									2.5												
0.75KW	1HP																					
1.1KW	11/2HP									_												
1.5KW	2HP									5				\								
2.2KW	3HP																					
3.7KW	5HP									10												
5.5KW	71/2HP																					
7.5KW	10HP									20												
11KW	15HP								_	40												
15KW	20HP									40												
19KW	25HP									65												
22KW	30HP									03												
30KW	40HP																					
37KW	50HP									100												
45KW	60HP																					
55KW	75HP										200											
75KW	100HP										200											
92KW	125HP																					
110KW	150HP																					

Select table 1: cases where the maximum load has been applied at startup.

Motor cap	acity r.p.m	100	200	300	400	500	600	700	800	900	1000	1100	1200	1500	1800	2000	2400	3000	3600	4000	4600	5000
0.015KW	1/50HP																					
0.035KW	1/20HP																					
0.065KW	1/12HP																					
0.1KW	1/8HP									1.2												
0.125KW	1/6HP																					
0.2KW	1/4HP																					
0.25KW	1/3HP									2.5												
0.4KW	1/2HP																					
0.55KW	3/4HP																					
0.75KW	1HP									5												
1.1KW	11/2HP									J												
1.5KW	2HP									10												
2.2KW	3HP									10												
3.7KW	5HP									20												
5.5KW	71/2HP									40												
7.5KW	10HP																					
11KW	15HP									65												
15KW	20HP									100												
19KW	25HP																					
22KW	30HP									200												
30KW	40HP																					



○ BASIC USAGE OF ELECTROMAGNETIC CLUTCH

1. Connect and cut off

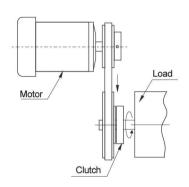
An electromagnetic clutch is mounted between the driving part and the driven part, and the driving side keeps continuous operation. The driven side can be connected or cut off as required.

2. Braking and maintenance

Brake can use load inertia stop or emergency mechanical stop, work on the way to stop, maintain.

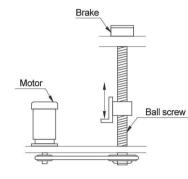
3. The variable speed

In the work, make the working speed switch between low speed and high speed, without stopping the driving side.



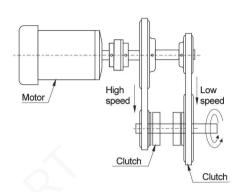
4. High frequency operation

Because the starting and stopping frequency of the motor is limited, the use of clutch brake can make the machinery to achieve high frequency continuous operation, and can achieve fast response and high precision requirements.



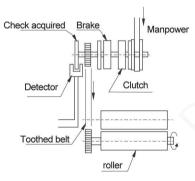
5. Inching

The clutch and brake can be inching when the machine is in operation or positioning.



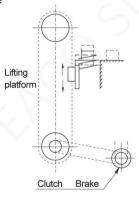
6. And reversing

The working load side rotation can be switched between forward rotation and reverse rotation, which can be realized by clutch combination. The driving side keeps the same direction rotation, while the load side can be positive and negative rotation.



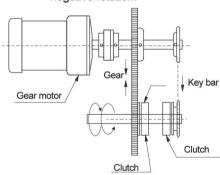
7. Slow start and stop

When buffering start and stop, adjusting torque of clutch and brake can reduce the impact of load, but Slip time must be shortened to avoid overheating.



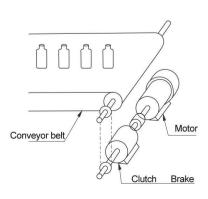
8. Overload protection

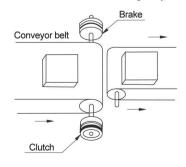
When the machine is overloaded, the clutch will slip to avoid damage to the machine, but an auxiliary mechanism is needed to check. Disengage the clutch and brake urgently.

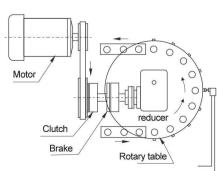


9. Position stop/indexing

Clutch and brake can be applied to automatic and high-precision position stop, can stop in a predetermined position or move a predetermined amount.







CONTROLCIRCUIT OF ELECTROMAGNETIC CLUTCH/BRAKE

Circuit control instructions

The main power supply used in the electromagnetic clutch/brake is DCpower supply, of which DC24V is the standard specification (special specification 48v.90v.180v needs to be customized). Depending on usage characteristics, the following control methods can be used together.

Basic loop

The basic control circuit consists of dc power supply, surge absorption circuit and switch. (FIG. 1) is a simple on/off switch control circuit. (FIG. 2) the contact is disconnected or closed to control the circuit by controlling the relay with a button switch, and the contact capacity is at least 10 times of the load current.

2. High-speed control loop

In order to adapt to high precision, high frequency and rapid actuation, the following special controls can be used to shorten the armature attraction time and torque establishment time of the electromagnetic clutch/brake:

A. Rapid excitation loop: the armature attracting time and torque setting time can be significantly improved when the electromagnetic clutch is connected in series with the shock resistance and the current and voltage of four times the rated voltage of the electromagnetic clutch are added to the loop instantaneously. (figure 3)

B. Capacitor over-excitation loop — the time taken to establish the initial current using the discharge energy of the capacitor. (figure 4) C. Timer control circuit (overvoltage mode) — that is, in the initial stage, the instantaneous excitation clutch is twice higher than the rated voltage, the establishment of current is advanced and the torque establishment time is improved, but the release time is slow. (figure 5)

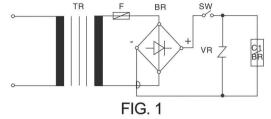
Discharge circuit

When the dc current is cut off, the coil will be sent out several times higher than normal voltage instantaneous inverse phase voltage, the inverse phase voltage contact causes spark discharge phenomenon, may lead to damage of the switch contacts, or circuits of semiconductor overvoltage is damaged, if continue this status for a long time, have a bad influence on the coil, so the loop device must surge absorber. In order to extend the life of relay contacts, relay contacts can be connected in series to increase the distance between the contacts and quickly cut off the contact life of power protection.

A. Standard discharge circuit -- mainly with surge absorber, with large resistance value when voltage is low and sharply reduced resistance value when voltage is high, no power loss, good absorption rate and quick release effect. (figure 6)

B. Resistors and capacitors -- capacitors and resistors are used to absorb the surge voltage generated when the switch is cut off. The appropriate choice of capacitors and resistors can shorten the release time. (figure 7)

Schematic diagram of circuit control



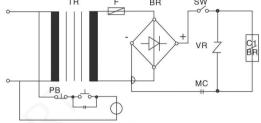


FIG. 2

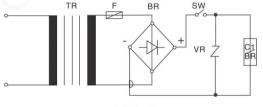
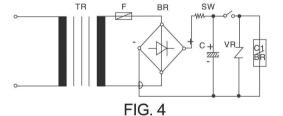


FIG. 3



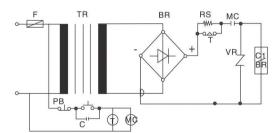


FIG. 5

SW

VR Z CI

RS BR

FIG. 6

FIG. 7



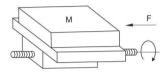
□ LOAD TORQU EFORMULA

Torque of the rotating body when external force is added: T

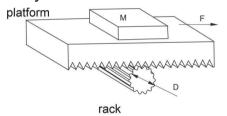


D: diameter of drum (m) F: external force (N) T=1/2D·F[N.m]

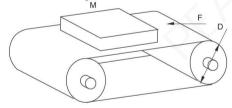
 Friction force of screw teeth, torque caused by external force: T



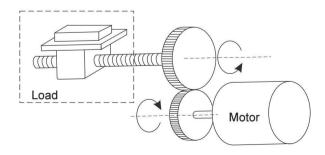
 Friction of rack and torque caused by external force: T



 Friction of conveyor belt and torque caused by external force: T



Converted torque of motor shaft: To



P: stroke of screw teeth (m)

M: weight of load (kg)

G = gravitational acceleration (m/s2)

U: coefficient of screw tooth

F: external force (N)

T=1/2n P(F+uMg)[N.m]

(In general, u is about 0.06~0.2)

D: diameter of gear (m)

M: weight of load (kg)

G = gravitational acceleration (m/s2)

U: friction coefficient of gears

F: external force (N)

T=1/2n (F+uMg)[N.m]

(In general, u is about 0.08~0.1)

D: diameter of roller (m)

M: weight of load (kg)

G = gravitational acceleration (m/s2)

U: friction coefficient of conveyor belt

F: external force (N)

T=1/2n (F+uMg)[N.m]

(In general, u is about 0.05~0.1)

Z1: number of teeth of motor side gears

Z2: number of teeth of load side gears

R: gear ratio: Z1/Z2

N: communication efficiency %/100

T: load side torque (N.m)

 $To=R\cdot T/n[N.m]$

Flat gear: 0.85

key bar: 0.9

V pulley: 0.9



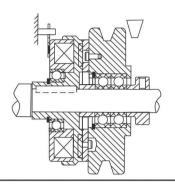
^{*}The value of each friction coefficient u will vary due to the machining precision and lubrication state of the machine, please pay special attention to the calculation of load torque.



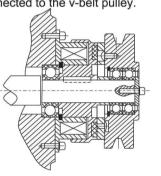
© EXSAMPLE USAGE OF ELECTROMAGNETIC CLUTCH/BRAKE

Installation examples

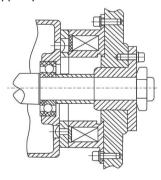
MCS Clutch: The armature plate is directly connected to the v-belt.



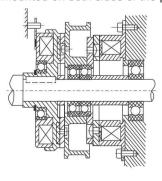
FCD Clutch:Mounted on the machine wall. The armature plate is directly connected to the v-belt pulley.



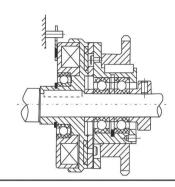
FBD Brake: The coil body is fixed on the support plate.



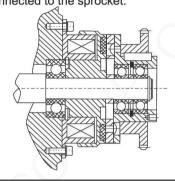
The clutch/brake MCS-FBD combination is mounted on both sides of the pulley.



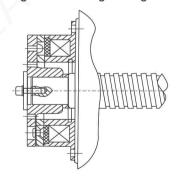
MCS-1 Clutch:The bearing guide seat is connected to the sprocket.

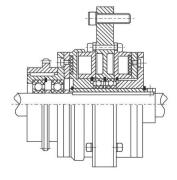


FCD-1 Clutch:Mounted on the machine wall. The bearing guide seat is connected to the sprocket.

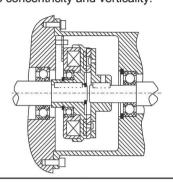


FBD-1 Brake: Mounted on shaft end with guide seat flange facing inward.

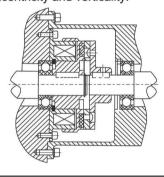




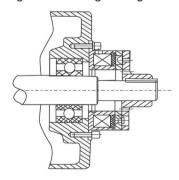
MCS-2 Clutch:Use the guide seat to mount the dividing shaft. Pay attention to concentricity and verticality.



FCD-2 Clutch:Use its guide seat to install the dividing shaft. Pay attention to concentricity and verticality.

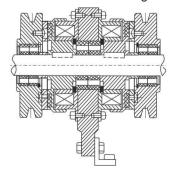


FBD-2 Brake: Mounted on shaft end with guide seat flange facing out.



The clutch/brake FCD-FBD combination is mounted on both sides of the strut.

Dual clutch FCD-FCD is mounted on the through shaft and can be used for reversing and shifting.

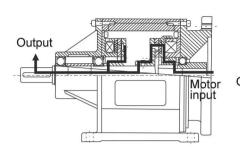


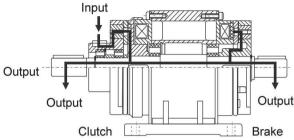


© EXAMPLES AND WORKING PRINCIPLES



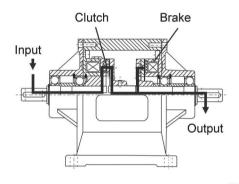
NMP:Working principle

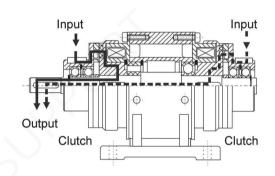




FMP:Working principle

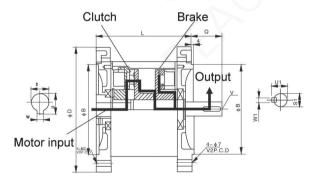
FMT:Working principle(1)

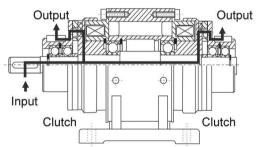




TMP:Working principle

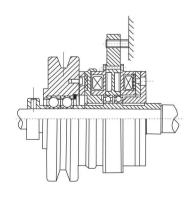
FMT:Working principle(2)

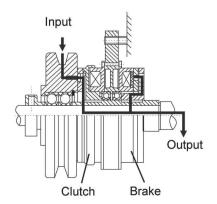




SMP:Application examples

SMP:Working principle





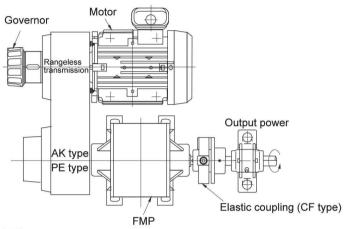


○ EXSAMPLE USAGE OF ELECTROMAGNETIC CLUTCH/BRAKE

Install the sample

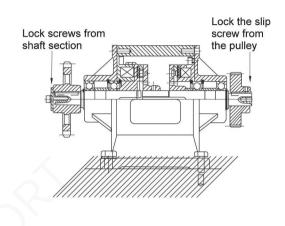
Clutch brake, usually installed after the motor and transmission unit. This clutch brake is recommended for use with our belt-type transmission unit. We have assembled good products, respect, please call to discuss.

And transmission combination



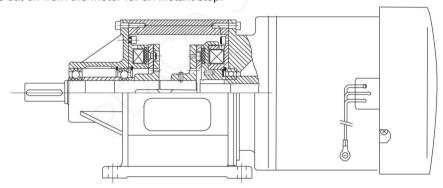
Install the sample

The end faces of the output shaft and input shaft are provided with screw holes, and the pulley can be simply mounted by using the corroded fixture. The fixing method is fixed by locking screws from the end face or locking sliding screws from the pulley.



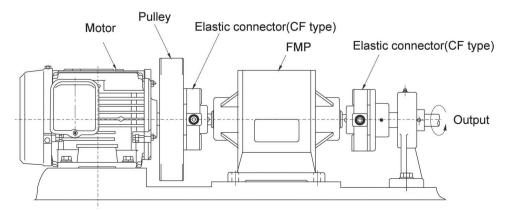
Power convey

The motor shaft is directly used as the input shaft of the clutch, and the output shaft is separated. The operation of the motor is transmitted to the output shaft through the clutch. In addition, if the current in the clutch is cut off while the brake is energized, the output shaft is cut off from the motor for an instant stop.



■ The direct link to the motor example

Generally speaking, because the Coupling only has a smaller moment of inertia than Pulley and Sprocket, it is usually used for assembly with clutch brakes. In particular, this clutch is often used in conjunction with our flexible coupling. The method of assembling the flywheel on the side of the motor works very well.





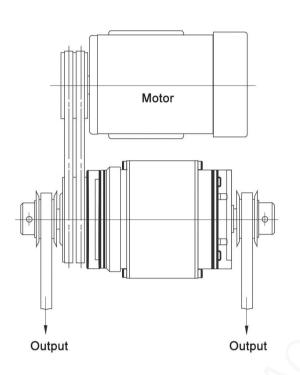
○ EXSAMPLE USAGE OF ELECTROMAGNETIC CLUTCH/BRAKE

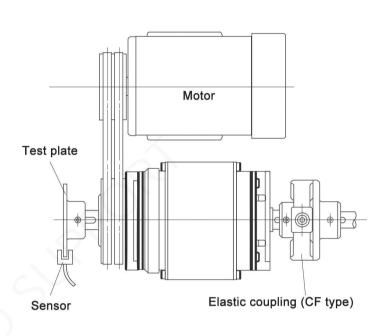
Install the sample

Because the clutch brake pack has two output shafts available, both ends can be output at the same time. Or one end is connected to the output, the other end assembly rotation detection circular plate, etc. To use. It can also be made into a variety of transmission line configuration.

An assembly example with two end outputs

An assembly example of a one-end assembly test board



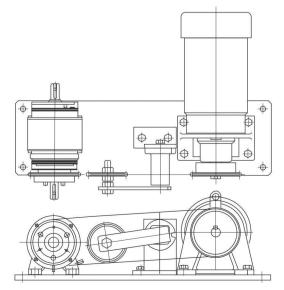


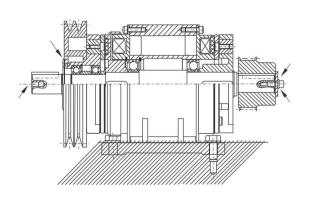
Special form

The following drawings are special shapes. If you want to assemble the driving device other than the drawing, or need the shape with pulley and chain gear, etc., we can cooperate with you.

A single base assembly of transmission motors and chain gears.

V pulley device in the input end of the clutch brake set







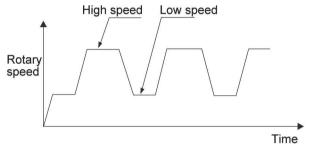
○ EXSAMPLE USAGE OF ELECTROMAGNETIC CLUTCH/BRAKE

■ Used in the 2-speed case

In order to make 2 speed changes, first connect the power of high speed and low speed respectively on the two hubs, and then use the clutch to switch the output shaft to high speed or low speed.

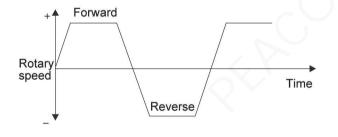
XNote:

On the contrary, if the shaft is used as the input shaft, the clutch will rotate at a high speed because of the ratio of speed change, which may lead to the damage of perrin.

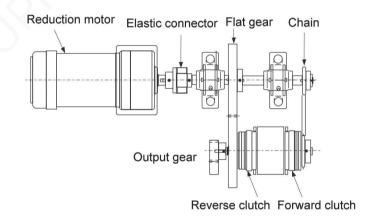


Used for positive and negative rotations

Since there is no brake in this device, the forward and reverse rotation is more effective at low speed or under light load. In the example on the right, the drive shaft is connected to its housing by chains and gears, and the clutch is used to control the positive and negative rotation of the output shaft. In addition, two motors are used to separate the positive and negative control methods.

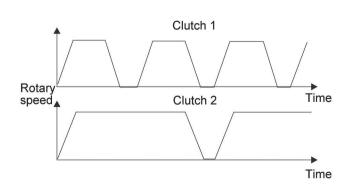


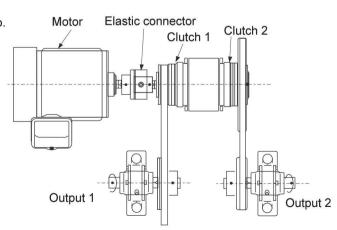
Motor Elastic connector Elastic connector High speed side clutch Low speed side clutch



Experiments in power distribution

The power input from the shaft can keep the respective clutches on-off at any time, so the power of one can achieve the function of two.





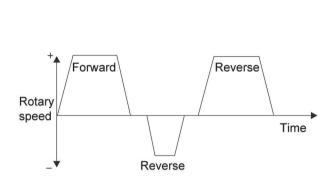


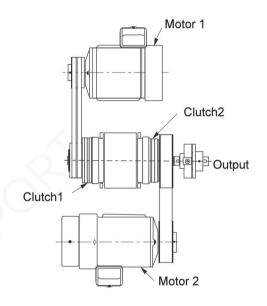
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○ EXSAMPLE USAGE OF ELECTROMAGNETIC CLUTCH/BRAKE

■ Can be used in the forward and backward examples

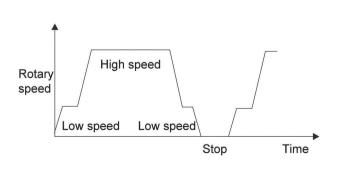
This is an example of using two motors to turn forward and backward. The motor is often maintained in operation, because of the change of speed and can be reverse rotation, in the operation of any load can be stopped.

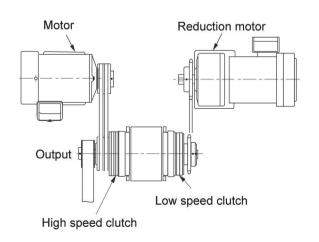




Examples of variable speed and stop at both ends

This device can be used when the winding machine must be stopped at a specific position with high precision or when the number of coils is controlled. It can be controlled very easily and precisely by means of continuous movements such as low-speed, high-speed and stop.

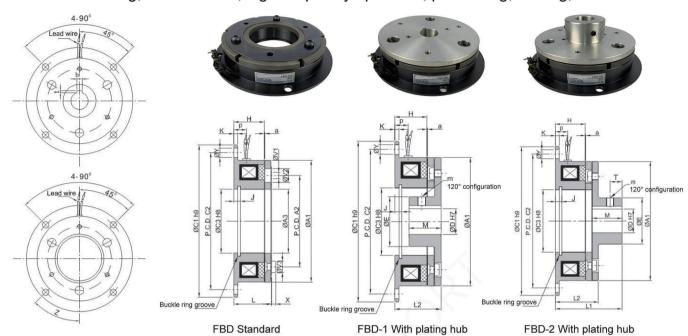






○ FBD/FBD-1/FBD-2 MODEL DRY SINGLE-PLATE MAGNETIC BRAKE

Braking, maintenance, high frequency operation, positioning, inching, etc.



Parameters

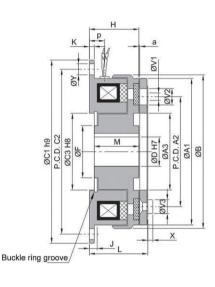
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МО	TEL	FBD(-1			-1)(-2) 15		-1)(-2) 025		-1)(-2) 050	FBD(- -1	1)(-2) 00		1)(-2)	FBD(- -4	1)(-2) 00
Dynamic friction	torque[kgm](Nm)	0.6(6)	1.5	(15)	2.5	(25)	5.0	(50)	10(1	100)	20(2	200)	40(4	100)
Static friction ton	que[kgm](Nm)	0.5(5)	1.0	(10)	2.0	(20)	4.0	(40)	8(8	30)	16(1	160)	32(320)
owder[DC24	V](W)at20°C	11	1	1	5	2	0	2	:5	3	5	4	5	6	0
Noight/kg)	FBD	0.2	8	0	.5	0.	91	1.	68	3.	15	5.	.9	10	.5
Veight(kg)	FBD-1(-2)	0.3	2	0.	58	1.	07	1.	97	3.4	45	7.	.1	12	2.2
Maximum spe	ed(r/min)						18	00							
					0	i				1					
	A1	63			0	10	100		25	16	V.271-0	20	10051 p	077130	50
	A2	46	-		0		6		5	12	797.5		58	200	10
	A3	34.	V. X.	41	11004	51	10,000	(60)243	1.5	79	27.87	99	CONTRACTOR OF THE PARTY OF THE	2000	4.5
	C1	80		230	00	12	44.60	1500	50	19	900	23		1,550	90
5	C2	72	3/1		0	11	Tarah .	/13	37	17	300	21	250	77.0	70
Radial Direction	C3	35			2		2	5.57	2	8	(S)	10	2.25/	1357	25
Direction	V1	3-3	2.2%	1921	4.1	3-	50.79		6.1	3-8	774000	3-1	450,567,0	120.00	2.2
	V2	3-6		3-		3-1	21999		12	3-	3.53	3-		4-	
	V3	3-6	-		-7	3-		127.5.3	0.5		14	3-		4-	
	D	12	15	15	20	20	25	25	30	30	40	40	50	50	60
	E	26			1 3	4	1		.9	6 9.		9.)5
	Y	5 18				2			7	J J			1907.		.5
	Н			4	0					2		3		10.	5
	J	3.5	- 14		.5		5		.5 .5	6		7			
	K	22			27.00		3	370	257	4		5	7000	1.00	8
	L	5000	17	24	0.000	5	100	0.7	31	7	200	41	1525	200	02
	L1 L2	37		28	100000	3	200		i1 i7	4	300	86	10.507		9
	M	25. 15	22.11	320.000	0	2	100	0.00	10	3	197	50	818.0	100	4
Axis	P	7.5		A.S	3	9	107	4.5	9	11	70	1	55	-	5.5
Direction	T	6	(*)		3 3	1		- 25	2	1		1	500		2
	X	1.5		1		2	20	- 2	.8	3.		4.	700	5.	200
	Z	1.0	,		.0		88000	-60°	.0	3.	4	7.	.5		15°
	m	2-N	14		2-	M5	0		M6		2-1	M8			110
	a	2-10		0.2(±		1110		2-1		+0.05	2-1	NIO .	0.5(110
	b	4	5	5	5	5	7	7	7	7	10	10	12	12	15
	t	1.8	2.3	2.3	2.3	2.3	3.3	3.3	3.3	3.3	3.8	3.8	3.8	3.8	5

• FCD MODEL DRY SINGLE-PLATE MAGNETIC CLUTCH

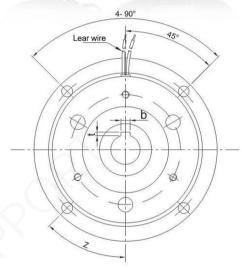
Use

Connection, cutting, variable speed, inch movement, forward reversal, high frequency operation, overload protection, etc.









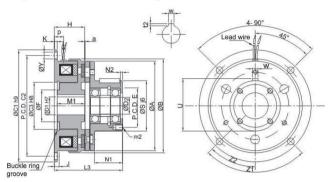
Parameters

MOT	ΓEL	FCD	-006	FCD	-015	FCD	-025	FCD	-050	FCD	-100	FCD	-200	FCD	-400
Dynamic friction to	orque[kgm](Nm)	0.6	6(6)	1.5((15)	2.5	(25)	5.0	(50)	10(100)	20(2	200)	40(4	400)
Static friction torqu	ue[kgm](Nm)	0.5	5(5)	1.0((10)	2.0	(20)	4.0	(40)	8(80)	16(1	160)	32(320)
Powder[DC24V](W)at20°C	1	1	1	5	2	0	2	5	3	5	4	5	6	0
Weight(kg)		0.	46	0.8	83	1	.5	2.	76	5	.1	9.	3	1	7
Maximum spee	d(r/min)						18	00							
Т	A1	6	3	8	0	10	00	1	25	16	30	20	10	21	50
-	A2	-180	6	6	(2)	7	2003	2010	5	-	20	15	1000	2000	10
-	A3		1.5	41	(100))	51	91		.5	79	75.50	99	72-9	0.000	4.5
	В	30000	'.5	8	2720	27.7)6	. 1000	33	17	20/78	21	GOVERN	1532	70
	C1	775.50	0	10	200	500	25	130	50	2772	90	23	100	-	90
	C2		2	9		071	12		37		75	21	720		70
Radial	C3	3	5	4	2	5	2		2	8	1224	10	00		25
Direction	D	12	15	15	20	20	25	25	30	30	40	40	50	50	60
	F	2	3	28	.5	4	0	4	5	6	2	7	7	10	00
	V1	3-	3.1	3-4	4.1	3-	5.1	3-	6.1	3-	3.1	3-1	0.2	3-1	2.2
	V2	3-6	6.3	3-	-8	3-1	0.5	3-	12	3-	15	3-	18	4-	22
	V3	3-	-6	3-	-7	3-	.9	3-1	0.5	3-	14	3-	17	4-	19
	Y		5	6	3	7	7		7	9	.5	9.	5	11	.5
	Z						6	-60°		92				8-4	45°
	Н	2	4	26	.5	3	0	33	3.5	37	.5	4.	4	5	1
	J	3	.5	4.	.3		5	5	.5		6	7	•	8	3
	K	:	2	2.	.5	3	3	3	.5	2	1	5	i	(6
	L	2	8	3	1	3	6	40).5	46	.5	55	.5	6	4
Axis Direction	М	2	2	2	4	2	7	3	0	3	4	4	0	4	7
Direction	Р	7	.5	8	3	9)		9	11	.5	1	3	15	5.5
	X	1	.5	1.	.8	2	.1	2	.8	3	.4	4.			.1
	а			0.2(±	0.05)	0			0.3(+0.05 -0.1)		100	0.5(-0.2)	
	b	4	5	5	5	5	7	7	7	7	10	10	12	12	15
	t	1.8	2.3	2.3	2.3	2.3	3.3	3.3	3.3	3.3	3.8	3.8	3.8	3.8	5

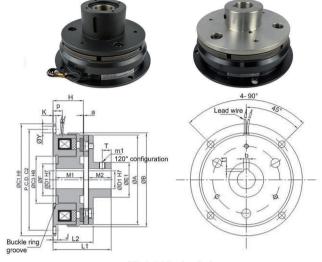
○ FCD-1/FCD-2 MODEL DRY SINGLE-PLATE MAGNETIC CLUTCH

Use

Connection, cutting, variable speed, inch movement, forward reversal, high frequency operation, overload protection, etc.



FCD-1 Bearing plating hub



FCD-2 Plating hub

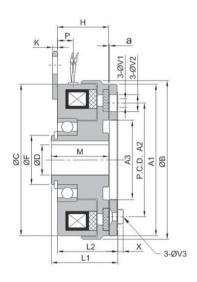
Parameters

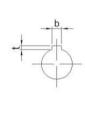
MO	TEL	FCD-1(-2)-006	FCD-1(-2)-015	FCD-1(-	2)-025	FCD-1(-2)-050	FCD-1(-2)-100	FCD-1(-2)-200	T -	
Dynamic friction t		0.6	15.	1.5	190	2.5(or and the second of	5.0(M	10(1	7.00 May 1.00 May 1.0	20(2	of .	-	400)
Static friction torq		0.5		12/5015	(10)	2.0(4.0(30)	16(1	China di Maria		320)
Powder[DC24\		1			5	20		2	y	3		4			60
Weight(kg)	1()		(0.5)	1.19(0.91)	2.11(1	1.66)	3.8(3	3.05)	6.9(20	13(1	area and a second	12	(18.7)
Maximum spee	d(r/min)		3 /40				2000-000-00	00					/		
	A	6	3	8	0	10		12	25	16	0	20	00	25	50
	В	67	.5	8	5	10	6	13	33	16	9	212	2.5	26	64
	C1	8	0	10	00	12	5	15	50	19	90	23	30	29	90
	C2	7	2	9	0	11	2	13	37	17	'5	21	5	27	70
	C3	3	5	4	2	52	2	6:	2	8	0	10	00	12	25
	D1	12	15	15	20	20	25	25	30	30	40	40	50	50	60
Radial	D2	1	2	1	5	20)	2	5	3	0	4	0	5	0
Direction	E1	2	6	3	1	4	1	4	9	6	5	8	3	10	05
	E2	3	3	3	7	47	7	5:	2	6	2	74	.5	10	1.5
	F	2	3	28	3.5	40)	4	5	6	2	7	7	10	00
	S	3	8	4	5	55	5	6-	4	7	5	9	0	1.	15
	U	39	.5	4	7	57	7	6	7	7	8	93	.5	11	8.5
	Y	5	5	(3	7	8	7	•	9.	5	9.	5	11	1.5
-	Н	2	4	26	5.5	30)	33	.5	37	.5	4	4	5	51
	J	3.	5	4	.3	5		5.	5	6	6	7	,	8	8
	K	2	2	2	.5	3	8	3.	5	4		5	5	(6
	L1	4	3	5	1	6	1	70	.5	84	.5	100	0.5	11	18
	L2	31	.5	3	5	4	1	46	.5	53	.5	64	.5	7	5
	L3	51	.5	6	0	7	1	86	.5	103	3.5	124	1.5	14	45
	M1	2	2	2	4	27	7	3	0	3	4	4	0	4	7
	M2	1	5	2	0	25	5	3	0	3	8	4	5	5	i4
	N1	2	0	2	5	30)	4	0	5	0	6	0	7	0
Axis	N2	2	2	2	2	3	e e	2	2	3	3	5	5	(6
Direction	Р	7.	5	8	3	9		9)	11	.5	1	3	15	5.5
	T	6	3	8	3	10	9	1.	(4-7)	1	177	1	267.0	2	2
	W	4	ŀ		5	5		7	•	7		1	0	1	2
	Z1							4-9	90°						
	Z2		6	0°				45°		30)°	45	5°	22	25°
]	m1	2-1	0.8000		M5	2-N	2000	2-1	M6	2-1	0.000	2-1	10000	237.5.37	<i>I</i> 10
	m2	3-M4*0	.7P*4L		0.7P*6L		4-M4*	0.7P*8L		6-M5*0	.8P*8L	4-M6*1			1P*12L
	а				0.05)					+0.05				(-0.2)	
	b	4		10	5	5		7		7		1			2
	t1	1.8	2.3	2.3	2.3	2.3	3.3	3.3	3.3	3.3	3.8	3.8	3.8	3.8	5
	t2	1.	8	2	.3	2.	3	3.	3	3.	3	3.	8	3.	.8

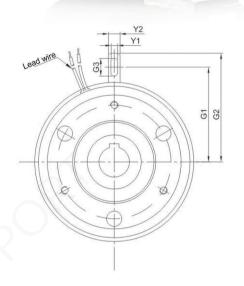
○ MCS MODEL INTERNAL BEARING-TYPE MAGNETIC CLUTCH

Use

Connection, cutting, variable speed, inch movement, forward reversal, high frequency operation, overload protection, etc.







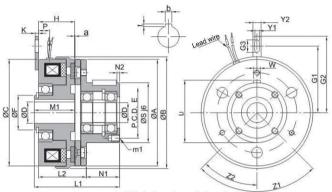
Parameters

MOT	EL	MCS-006	MCS-015	MCS-025	MCS-050	MCS-100	MCS-200	MCS-400
Dynamic friction to	orque[kgm](Nm)	0.6(6)	1.5(15)	2.5(25)	5.0(50)	10(100)	20(200)	40(400)
Static friction torqu	ıe[kgm](Nm)	0.5(5)	1.0(10)	2.0(20)	4.0(40)	8(80)	16(160)	32(320)
owder[DC24V]](W)at20°C	11	15	20	25	35	45	60
Veight(kg)		1.0	1.5	2.5	4	7	11	21
Maximum speed	d(r/min)			18	00			
	A1	63	80	100	125	160	200	250
	A2	46	60	76	95	120	158	210
	A3	34.5	41.5	51.5	61.5	79.5	99.5	124.5
	В	67.5	85	106	133	169	212.5	264
	С	67.5	85	106	133	169	212.5	264
	D	12	15	20	25	30	40	50
	F	20	25	30	40	50	65	80
Radial	Н	24	26.5	30	33.5	37.5	50	65
Direction	K	2	2	2	2	3.2	3.2	4
	L1	31	34.5	39.5	44.5	50.5	60.5	77.5
	L2	28	31	36	40.5	46.5	55.5	64
	M	27	29.5	34	37.5	42	50	65
	Р	7.5	8	9	9	11.5	12.5	13
	V1	3-3.1	3-4.1	3-5.1	3-6.1	3-8.1	3-10.2	4-12.2
	V2	6.3	8	10.5	12	15	18	18
	V3	5	6.2	8	10	13	15	16
	X	1	1.2	1.5	1.8	3.2	3.5	4
	а		0.2(±0.05)		0.3(·0.05 0.1)	0.5(-0 -0.15)
	G1	42.5	57.5	62.5	77.5	100	115	140
	G2	50	65	70	85	112	135	160
Axis	G3	9.5	10.5	11.5	11.5	18.5	20	20
Direction	Y1	4.5	5.5	6.5	6.5	9	10.5	10.5
	Y2	14	16	16	16	25	35	40
	b	4	5	5	7	7	10	12
	t	1.8	2.3	2.3	3.3	3.3	3.8	3.8

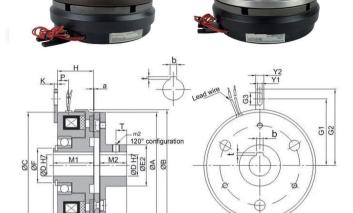
○ MCS-1/MCS-2 MODEL INTERNAL BEARING-TYPE MAGNETIC CLUTCH

Use

Connection, cutting, variable speed, inch movement, forward reversal, high frequency operation, overload protection, etc.







MCS-2 Plating hub

Parameters

							r Hatou re	nage.DC24
MO	TEL	MCS-1(-2)-006	MCS-1(-2)-015	MCS-1(-2)-025	MCS-1(-2)-050	MCS-1(-2)-100	MCS-1(-2)-200	MCS-1(-2)-40
Dynamic friction t	orque[kgm](Nm)	0.6(6)	1.5(15)	2.5(25)	5.0(50)	10(100)	20(200)	40(400)
Static friction torq	ue[kgm](Nm)	0.5(5)	1.0(10)	2.0(20)	4.0(40)	8(80)	16(160)	32(320)
Powder[DC24\	/](W)at20°C	11	15	20	25	35	45	60
Veight(kg)		0.7(0.54)	1.23(0.95)	2.18(1.73)	3.93(3.18)	8.1(5.6)	12.3(9.8)	23.5(17.5)
Maximum spee	d(r/min)		*	18	00			
	Α	63	80	100	125	160	200	250
	В	67.5	85	106	133	169	158	264
	С	67.5	85	106	133	169	212.5	264
	D	12	15	20	25	30	40	50
	E1	33	37	47	52	62	74.5	101.5
	E2	26	31	41	49	65	83	105
	F	20	25	30	40	50	65	80
	Н	24	26.5	30	33.5	37.5	50	65
	К	2	2	2	2	3.2	3.2	4
Radial	L1	55	64.5	75	90.5	108.5	131.5	165
Direction	L2	31.5	35.5	41.5	46.5	54	64.5	75
	L3	46	54.5	64.5	74.5	88.5	109.5	123
	M1	27	29.5	34	37.5	42	50	65
	M2	15	20	25	30	38	45	54
	N1	20.5	26	30	40	50	60	70
	N2	2	2	3	2	3	5	7
	Р	7.5	8	9	9	11.5	12.5	13
	S	38	45	55	64	75	90	115
	Т	6	8	10	12	15	18	22
	а	33.0	0.2(±0.05)	- 100044	0.3(+0.05) -0.1	0.5(-0 _{.15})
	G1	42.5	57.5	62.5	77.5	100	115	140
	G2	50	65	70	85	112	135	160
	G3	9.5	10.5	11.5	11.5	18.5	20	20
	U	39.5	47	57	67	78	93.5	118.5
	W	4	5	5	7	7	10	12
	Y1	4.5	5.5	6.5	6.5	9	10.5	10.5
Axis Direction	Y2	14	16	16	16	25	35	40
Direction	b	4	5	5	7	7	10	12
	t	1.8	2.3	2.3	3.3	3.3	3.8	3.8
1	m1	3-M4	*0.7P	4-M4*0.7P	6-M5	*0.8P	6-M6	3900
1	m2	2-M4	2-1	И5	2-M6	T .	M8	2-M10
1	Z1				4-90°			
	Z2	F	60°	4	5°	30°	45°	225°

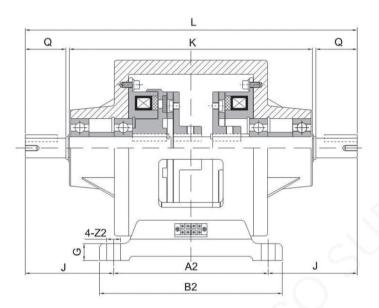
• FMP MODEL INTERNAL MAGNETIC CLUTCH AND BRAKE COMBINATION

Action principle

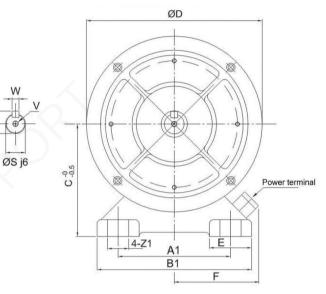
The rotor of the clutch is fixed on the input shaft, the armature of the clutch is coaxial with the brake to form the output shaft, and the stator and brake flange of the clutch are mounted on the frame. When the current through the clutch, the output shaft is driven: when the clutch power separation, brake current through, the output shaft will stop rotating.

Use

Start, stop, inching, positioning, high frequency operation, etc.







Parameters

МОТ	ΓEL	FMP-006	FMP-015	FMP-025	FMP-050	FMP-100	FMP-200	FMP-400
Dynamic friction to	orque[kgm](Nm)	0.6(6)	1.5(15)	2.5(25)	5.0(50)	10(100)	20(200)	40(400)
Static friction torqu	ue[kgm](Nm)	0.5(5)	1.0(10)	2.0(20)	4.0(40)	8(80)	16(160)	32(320)
Powder[DC24V](W)at20°C	11	15	20	25	35	45	60
Suspended load	d(kgf)	32	48	70	90	130	180	260
Neight(kg)		2.1	4.2	6.8	12	22	49	90
Maximum spee	d(r/min)			18	00			
	A1	65	80	105	135	155	195	245
	B1	90	110	140	175	200	240	300
	C	65	80	90	112	132	160	195
	D	100	125	150	190	230	290	350
Radial	E	27.5	32	35	42	45	47	50
Direction	F	60	68	81	97	110	129	160
	S	11	14	19	24	28	38	42
	U	12.5	16	21	27	31	41.5	45.5
	W	4		5		7	10	12
	Z1	13.5	15	20	24	28	28	34
	A2	90	110	135	160	200	240	300
	B2	105	130	160	185	230	270	340
	G	10	12	15	15	18	20	23
A!-	J	48.5	63	80	108	145	188	236
Axis Direction	K	132	171	210	270	362	448	552
Direction	L	187	236	295	376	490	616	772
	Q	25	30	40	50	60	80	110
	٧	M4*0	.7P*8L		M6*1P*11L		M10*1	1.5P*17L
	Z2	6.5	9	11	11	14	14	17



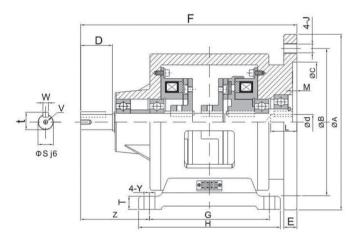
• MMP MODEL SINGLE MAGNETIC CLUTCH-BRAKE COMBINATION

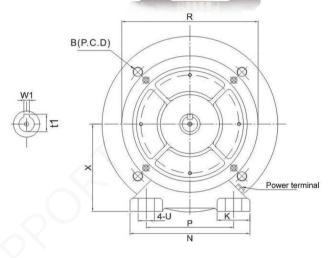
Action principle

The rotor of the clutch is fixed to the input shaft and the armature plate and brake of the clutch are fixed to the output shaft. When there is a current through the clutch, the output shaft is driven; When the clutch is cut off and the brake has current, the output shaft will stop. Suitable for direct connection of motor, flange face with IEC international standard.

Use

Start, stop, inching, positioning, high frequency operation, etc.





12314

Parameters

MO	ΓEL	MMP-006	MMP-015	MMP-025	MMP-050	MMP-100	MMP-200
Dynamic friction to	orque[kgm](Nm)	0.6(6)	1.5(15)	2.5(25)	5.0(50)	10(100)	20(200)
static friction torqu	ue[kgm](Nm)	0.5(5)	1.0(10)	2.0(20)	4.0(40)	8.0(80)	16(160)
owder[DC24V](W)at20°C	11	15	20	25	35	45
Veight(kg)		2.6	5	9	15	25	48
laximum spee	d(r/min)			1800	. (83		×.
	Α	160	160	200	200	250	300
	В	130	130	165	165	215	265
	С	110	110	130	130	180	230
	J	1	M8	M1	0	N	112
Dadiel	V	M4*0	.7P8L		M6*1P*11L		M10*1.5P*17L
Radial Direction	R	100	125	150	190	230	290
Bircotion	X	65	80	90	112	132	160
	Т	10	12	15	15	18	20
	d	11	14	19	24	28	38
	S	11	14	19	24	28	38
	D	25	30	40	50	60	80
	E		2	15.5	15	13	16
	F	160	194.5	234.5	310.5	389	536
	G	90	110	135	160	200	240
	н	105	130	160	185	230	270
	К	27.5	32	35	42	46	47
	L	27	32	42	52	62	82
Axis	M		5			(5
Direction	N	90	110	140	175	200	240
	Р	65	80	105	135	155	195
	U	13.5	15	20	24	28	28
	Y	6.5	9	11			14
	Z	48.5	63	80	108	145	188
	W	4	5	6	7		10
	t	12.8	16.3	21.8	27.3	31.3	41.8
	W1	4	5	6		8	10
	t1	12.5	16	21.5	27	31	41.5

TMP MODEL INTERNAL MAGNETIC CLUTCH AND BRAKE COMBINATION

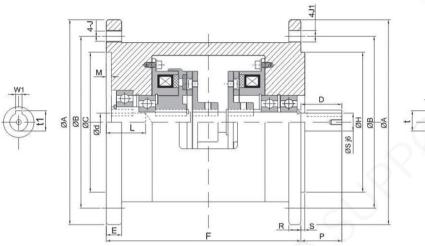
Action principle

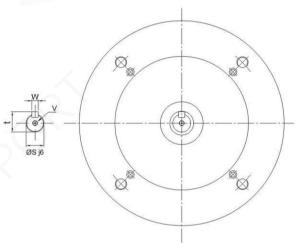
The rotor of the clutch is fixed on the input shaft and the armature plate and brake plate of the clutch are fixed on the output shaft. When there is a current through the clutch, the output shaft is driven; When the clutch is cut off and the brake has current, the output shaft will stop.

Use

Start, stop, inching, positioning, high frequency operation, etc.







Parameters

MOT	EL	TMP-006	TMP-015	TMP-025	TMP-050	TMP-100	TMP-200
Dynamic friction to	que[kgm](Nm)	0.6(6)	1.5(15)	2.5(25)	5.0(50)	10(100)	20(200)
Static friction torqu	e[kgm](Nm)	0.5(5)	1.0(10)	2.0(20)	4.0(40)	8(80)	16(160)
Powder[DC24V]	(W)at20°C	11	15	20	25	35	45
Veight(kg)		2.5	4.8	8.5	14	24	47
/laximum speed	(r/min)		i e	1800			
	Α	160	160	200	200	250	300
	В	130	130	165	165	200	240
	С	110	110	130	130	180	230
Radial	н	110	110	130	130	180	230
Direction	J		M8	M	10	M	12
	J1	9	10	1	2		14
	d	11	14	19	24	28	38
	S	11	14	19	24	28	38
	D	25	30	40	50	60	80
	E	25	12	15.5	15	13	16
	F	131	150	175.5	241.5	285	456
	L	27	32	42	52	62	82
	M			5		6	
Axis	Р	25	30	40	50	60	80
Direction	R	9	9.5	12	11	9	12
	S			3.5			4
	W	4	5	6	8	1	10
	t	12.8	16.3	21.8	27.3	31.3	41.8
	W1	4	5	6	8	3	10
	t1	12.5	16	21.5	27	31	41.5

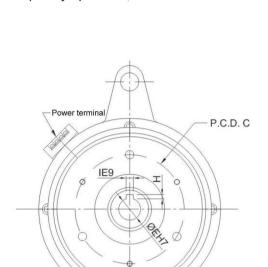
SMP MODEL INTERNAL MAGNETIC CLUTCH AND BRAKE COMBINATION

Action principle

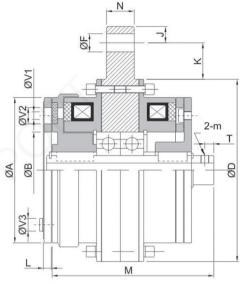
The rotor and brake of the clutch are fixed on the output shaft, and the armature plate of the input shaft is fixed on the input flywheel. When there is a current through the clutch, the flywheel drives the output shaft. When the clutch is separated, the brake is connected with the current, and the output shaft stops.

Use

Start, stop, inching, positioning, high frequency operation, etc.







Parameters

						ritatoa	Voltago.DO2
MOT	EL	SMP-015	SMP-025	SMP-050	SMP-100	SMP-200	SMP-400
Dynamic friction to	orque[kgm](Nm)	1.5(15)	2.5(25)	5.0(50)	10(100)	20(200)	40(400)
Static friction torqu	ue[kgm](Nm)	1.0(10)	2.0(20)	4.0(40)	8.0(80)	16(160)	32(320)
Powder[DC24V](W)at20°C	15	20	25	35	45	60
Veight(kg)		3	4.5	6	13.5	23	41.5
Maximum spee	d(r/min)			1800			
	Α	80	100	125	160	200	250
	В	42	52	62	80	100	125
	D	100	125	150	190	230	290
	F	10	10	12	15	18	21
Radial Direction	J	9	11	13	18	20	25
Direction	K	20	25	30	37	44	50
	V1	3-4.1	3-5.1	3-6.1	3-8.1	3-10.2	4-12.2
	V2	3-8	3-10.5	3-12	3-15	3-18	4-22
	V3	3-7	3-9	3-10.5	3-14	3-17	4-19
	С	60	76	95	120	158	210
	E	12	20	25	35	40	48
	Н	1.8	2.3	3.3		3.8	77
A	1	4	5	7	10)	12
Axis Direction	L	4.6	5.6	6.8	9.4	11.8	13.1
Direction	M	97	106.2	115.5	148	154.5	180
	N	15	16		20		30
	Т		8			12	
	m		M6			M8	

• FMT MODEL INTERNAL MAGNETIC CLUTCH AND BRAKE COMBINATION

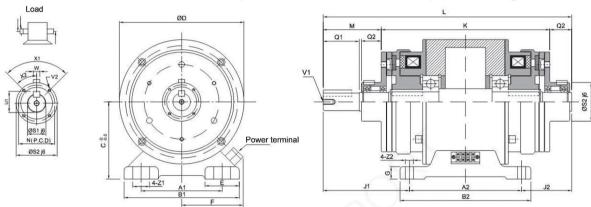
Action principle

The rotor of the clutch on both sides is fixed on the output shaft, and the bearing guide seat of the clutch is arranged on the output shaft. When the right side of the clutch through the current output shaft will be driven; When the power off on the right side of the clutch can be separated, the output shaft will stop running; When the left clutch has a current through the output shaft is driven, the left power clutch will be separated, the output shaft will stop.



Use

It is used for transmission and distribution of variable speed combination at both ends and positive and negative rotation combination.



Parameters

MO	ΓEL	FMT-006	FMT-015	FMT-025	FMT-050	FMT-100	FMT-200	FMT-400
Dynamic friction to	orque[kgm](Nm)	0.6(6)	1.5(15)	2.5(25)	5.0(50)	10(100)	20(200)	40(400)
Static friction torqu	ue[kgm](Nm)	0.5(5)	1.0(10)	2.0(20)	4.0(40)	8(80)	16(160)	32(320)
owder[DC24V](W)at20°C	11	15	20	25	35	45	60
oad(KG)		14	25	45	70	100	180	260
Veight(kg)		1.5	2.7	5.5	9.6	18.5	35	64
laximum spee	d(r/min)			18	00		•	
344						28		
	A2	75	90	110	135	160	200	240
	B2	95	105	130	160	185	230	270
	G	10	10	12	15	15	18	20
	J1	65.5	78.5	98	121	149	187	238
	J2	40.5	40.5	62	74	90	117	154
Radial Direction	К	111.5	133	162	193	232	290	350
Direction	L	181	217	266	327	397	492	603
	М	46.5	56.5	72	92	113	142	183
	Q1	25	30	40	50	60	80	110
	Q2	20	25	30	40	50	60	70
	V1	M4*0.7P	*8L		M6*1P*11L		M10*1	.5P*17L
	Z2	6.5	6.5	9	11	11	14	14
	A1	52.5	65	80	105	135	155	195
	B1	80	90	110	140	175	200	240
	С	55	65	80	90	112	132	160
	D	80	100	125	150	190	230	290
	E	27.5	27.5	32	35	42	45	47
	F	57	60	68	81	97	110	129
. [N	33	37	49	56	65	79	101.5
Axis Direction	S1	11	14	19	24	28	38	42
Direction	S2	38	45	55	64	75	90	115
	U1	12.5	16	21	27	31	41.5	45.5
	U2	39.5	47	57	67	78	93.5	118.5
	V2	M4*0	.7P*6L	M4*0	.7P*8L		M6*1P*12L	
	W	4		5	7		10	12
	X1	3-1	20°		4-9	10°		8-45°
	X2	6	i0°	-	4	5°		22.5°
	Z1	13.5	13.5	15	20	24	28	28