



# MAGNETIC COUPLING

PRESENTED BY

SHANGHAI LINA METAL PRODUCTS CO., LTD

SHANGHAI STRONG MAGNETS INDUSTRIAL AND COMMERCIAL CO., LTD



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MAGNETIC COUPLING is a new kind of coupling, which connects the prime motor and the working machine by permanent magnetic force.

Magnetic coupling conveys the mechanical energy by the interaction of the rare-earth permanent magnet, so direct mechanical connection is not needed. Therefore, it thoroughly solves the leakage problems existing the dynamic sealing of some mechanical devices.

Magnetic coupling works in the sealless magnetic driving pumps, which transport the volatiles, flammables, explosives and toxics. So it's widely used in various industries and fields, such as chemicals, papermaking, foodstuff, pharmacy and so on.

We can design and produce different magnetic couplings according to clients' requests.



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The indication of the model item no:

**IPMC01-5LM00**

distinguishing no

Product series no

01 unthreaded hole type

02 axel hole type

03 flange type

Torque (N.M)

Pressure

L: low pressure  $P \leq 2.5\text{MPa}$

M: middle pressure  $2.5\text{MPa} < P \leq 10\text{MPa}$

H: high pressure  $P > 10\text{MPa}$

Max. working temperature

L: low temp.  $0^\circ < T \leq 80^\circ$

M: middle temp.  $80^\circ < T \leq 120^\circ$

H: high temp.  $120^\circ < T \leq 150^\circ$



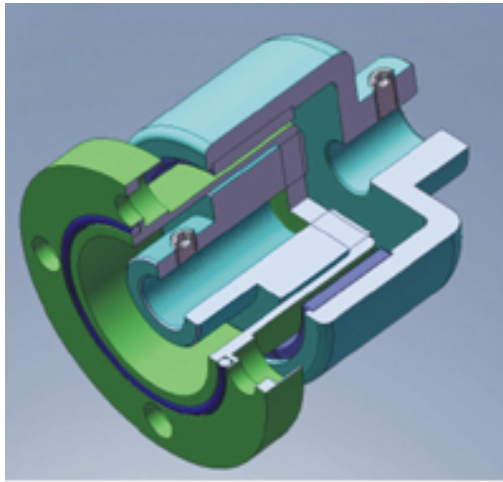
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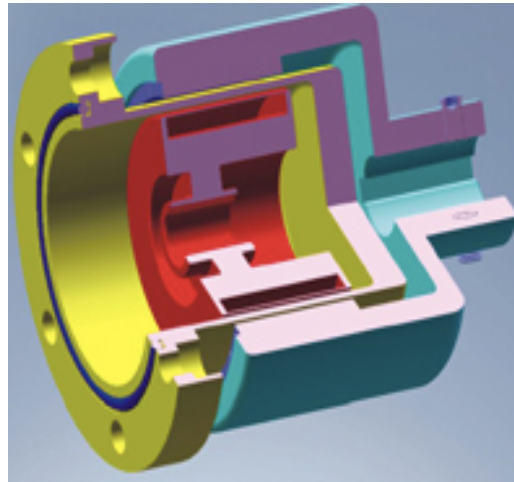
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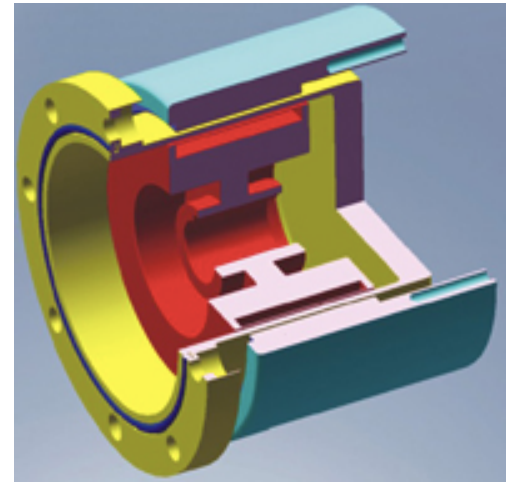
**THREE series of magnetic couplings:**



01 unthreaded hole type



02 axel hole type



03 flange type





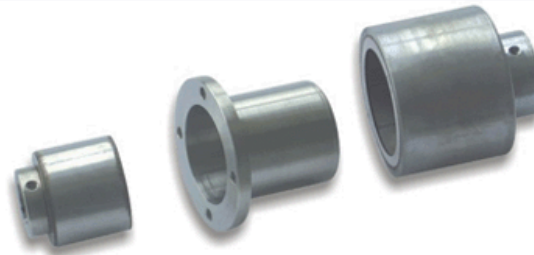
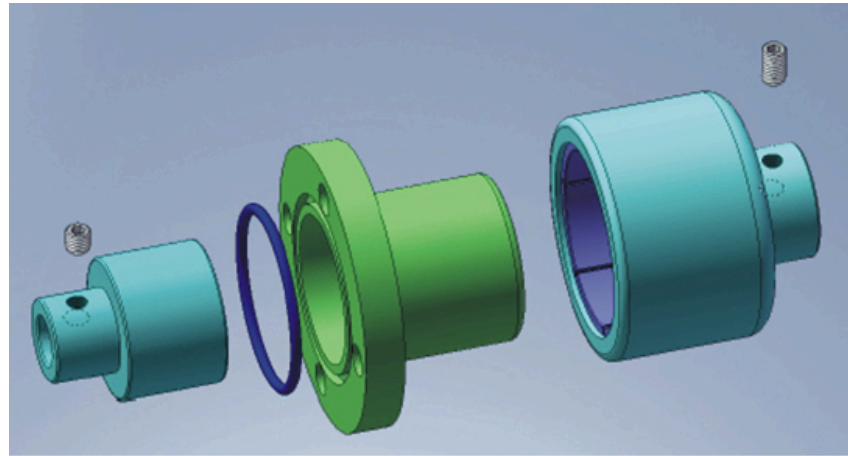
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## 01 Unthreaded hole type





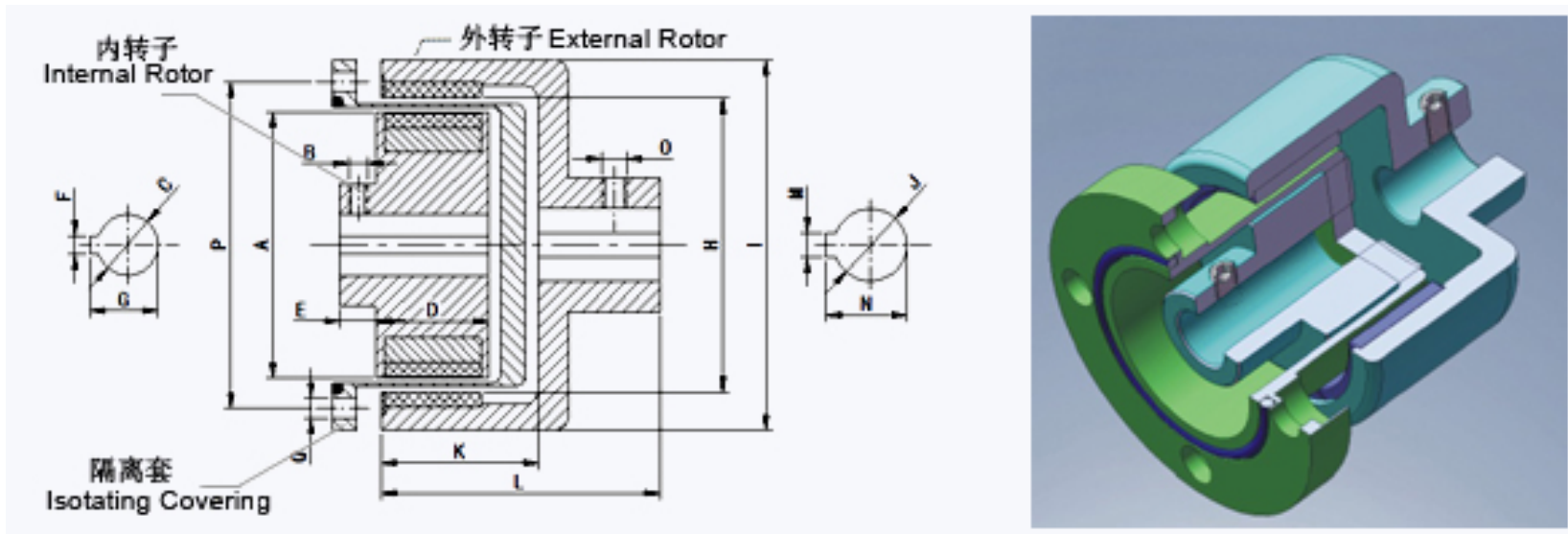
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## 01 Unthreaded hole type





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## 01 Unthreaded hole type

Item	Internal Rotor(mm)							External Rotor(mm)								Isolating Covering(mm)					
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
IPMC01-0.1LM00	Φ13	—	Φ4	15	7	—	—	Φ17.6	Φ26	Φ6	19	27	—	—	M3	Φ22	4-Φ3.2	Φ15	Φ29	5	5
IPMC01-0.1HL00	Φ14	—	—	17.8	—	—	—	Φ20	Φ28	—	25	27	—	—	—	Φ24	6-Φ3.2	Φ15	Φ30	4	4
IPMC01-0.1LL00	Φ13	M3	Φ4	15	7	—	—	Φ17.6	Φ26	Φ6	19	27	—	—	M3	Φ22	4-Φ3.2	Φ15	Φ29	5	5
IPMC01-0.3LL00	Φ22	M4	Φ8	16.3	8	—	—	Φ28	Φ44	Φ8	22	36	—	—	M4	Φ35	4-Φ4.2	Φ24	Φ44	5	4.4
IPMC01-0.3LL01	Φ13	M4	Φ4	22	7	—	—	Φ17.6	Φ26	Φ6	19	27	—	—	M3	Φ22	4-Φ3.2	Φ15	Φ29	5	5
IPMC01-0.3LL02	Φ22	M4	Φ8	24	7	—	—	Φ28	Φ44	Φ8	23	37	—	—	M4	Φ35	4-Φ4.2	Φ24	Φ44	5	4.4
IPMC01-1LM00	Φ28	M5	Φ10	20	10	—	—	Φ35	Φ48	Φ10	28	44	—	—	M5	Φ42	4-Φ4.2	Φ30	Φ52	6	6
IPMC01-3LM00	Φ35	M5	Φ10	26	16	—	—	Φ42	Φ60	Φ12	35	55	4	13.8	M4	Φ50	4-Φ5.4	Φ38	Φ60	6	6
IPMC01-5LM00	Φ42	M5	Φ12	27	12	4	13.8	Φ49	Φ72	Φ16	33	63	5	18.3	M5	Φ60	4-Φ6.7	Φ44	Φ74	8	8
IPMC01-10LM00	Φ56	M6	Φ12	30	12	4	13.8	Φ63	Φ89	Φ18	44	74	6	20.8	M6	Φ75	4-Φ6.7	Φ58	Φ89	8	8
IPMC01-16LM00	Φ56	M6	Φ20	45	12	6	22.8	Φ63	Φ89	Φ28	59	89	8	31.3	M6	Φ75	4-Φ6.7	Φ58	Φ89	8	8
IPMC01-16LL00	Φ101	M6	Φ20	24	11	6	22.8	Φ108	Φ138	Φ28	43	103	8	31.3	M8	Φ126	6-Φ6.7	Φ103	Φ140	11	4
IPMC01-16LH00	Φ101	M6	Φ25	24	12	8	28.3	Φ108	Φ138	Φ25	43	72	8	28.3	M8	Φ126	8-Φ6.5	Φ103	Φ140	12	5
IPMC01-20LM00	Φ88	M5	Φ20	24	13	6	22.8	Φ97	Φ122	Φ24	40	80	8	27.3	M8	Φ108	6-Φ6.7	Φ91	Φ122	8	8
IPMC01-22LM00	Φ88	M5	Φ20	27	13	6	22.8	Φ97	Φ122	Φ24	43	83	8	27.3	M8	Φ108	6-Φ6.7	Φ91	Φ122	8	8
IPMC01-30LL00	Φ56	—	Φ16	66	—	16	18.3	Φ66	Φ110	Φ20	85	120	6	22.8	M6	Φ80	8-Φ9	Φ60	Φ110	10	8
IPMC01-30LM00	Φ88	M5	Φ20	34	13	6	22.8	Φ97	Φ122	Φ24	50	90	8	27.3	M8	Φ108	6-Φ6.7	Φ91	Φ122	8	8
IPMC01-40LM00	Φ101	M6	Φ25	49	8	8	28.3	Φ109	Φ140	Φ38	70.2	141	10	41.3	M10	Φ126	8-Φ6.5	Φ103	Φ140	14	15.8
IPMC01-50LM00	Φ101	M6	Φ25	60	12	8	28.3	Φ109	Φ140	Φ38	75	125	10	41.3	M10	Φ126	8-Φ6.7	Φ103	Φ140	14	15.8



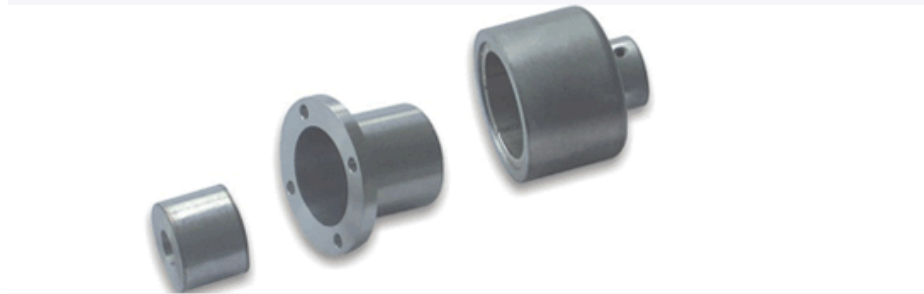
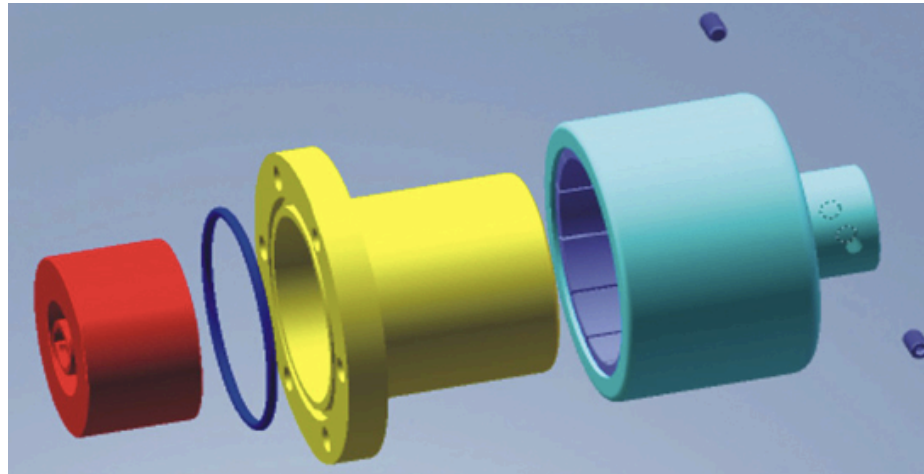
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## 02 Axel hole type







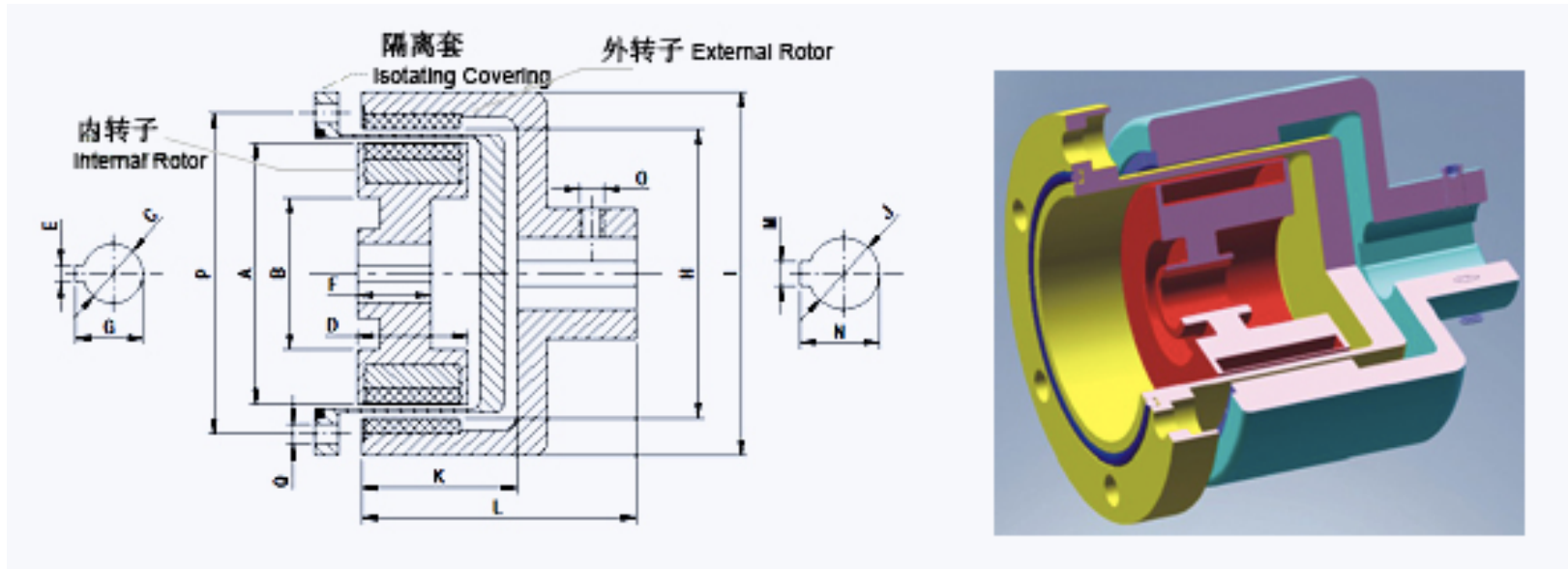
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## 02 Axel hole type





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## 02 Axel hole type

Item	Internal Roto(mm)							Shaft Pin	External Rotor(mm)								Isolating Covering(mm)					
	A	B	C	D	E	F	G		H	I	J	K	L	M	N	O	P	Q	R	S	T	U
IPMC02-3LM00	Φ35	-	Φ10	26	3	18	11.4	M6X12	Φ42	Φ60	Φ14	35	55	5	16.3	M4	Φ50	4-Φ5.4	Φ38	Φ60	6	6
IPMC02-5LM00	Φ42	-	Φ12	27	4	18	13.8	M6X16	Φ49	Φ72	Φ16	33	63	5	18.3	M5	Φ60	4-Φ6.7	Φ44	Φ74	8	8
IPMC02-10LM00	Φ56	-	Φ12	30	4	20	13.8	M6X16	Φ63	Φ89	Φ18	44	74	6	20.8	M6	Φ75	4-Φ6.7	Φ58	Φ89	8	8
IPMC02-16LM00	Φ58	-	Φ20	62	8	35	22.8	M6X16	Φ68	Φ90	Φ24	88.5	120	-	-	M8	Φ87	6-Φ6.7	Φ60	Φ100	10	8
IPMC02-16LM01	Φ56	-	Φ20	45	6	25	22.8	M6X20	Φ63	Φ89	Φ28	59	89	8	31.3	M6	Φ75	4-Φ6.7	Φ58	Φ89	8	8
IPMC02-16LM02	Φ56	M6	Φ25	45	8	25	28.3	-	Φ63	Φ89	Φ25	59	89	8	28.3	M6	Φ75	4-Φ6.7	Φ58	Φ89	8	8
IPMC02-16LM03	Φ56	-	Φ12	45	4	25	13.8	-	Φ63	Φ89	Φ24	59	89	8	27.3	M6	Φ75	4-Φ6.7	Φ58	Φ89	8	8
IPMC02-16LH00	Φ56	-	Φ14	45	5	25	16.3	M6X16	Φ63	Φ89	Φ12.7	59	89	-	-	M6	Φ75	4-Φ6.7	Φ58	Φ89	8	8
IPMC02-20LH00	Φ71	-	Φ16	48	5	16	18.3	M6X16	Φ78	Φ109	Φ24	63	108	8	27.3	M5	Φ100	4-Φ8.7	Φ73	Φ118	14	7.5
	Φ88	-	Φ20	29	6	25	22.8	M8X20	Φ97	Φ122	Φ24	44	84	8	27.3	M8	Φ108	6-Φ6.7	Φ91	Φ122	8	8
IPMC02-22LM00	Φ88	-	Φ20	37	6	25	22.8	M8X20	Φ97	Φ122	Φ24	52	92	8	27.3	M8	Φ108	6-Φ6.7	Φ91	Φ122	8	8
IPMC02-30LL00	Φ56	-	Φ16	66	-	16	18.3	-	Φ66	Φ110	Φ20	85	120	6	22.8	M6	Φ80	8-Φ9	Φ60	Φ110	10	8
IPMC02-30LM00	Φ88	M5	Φ20	34	6	17	22.8	-	Φ97	Φ122	Φ24	50	90	8	27.3	M8	Φ108	6-Φ6.7	Φ91	Φ122	8	8
IPMC02-40LM00	Φ101	-	Φ25	50	8	35	28.3	M10X20	Φ109	Φ140	Φ38	70.2	141	10	41.3	M10	Φ126	8-Φ6.5	Φ103	Φ140	12	6
IPMC02-50LM00	Φ101	-	Φ25	60	8	36	28.3	M10X20	Φ109	Φ140	Φ38	75	125	10	41.3	M10	Φ126	8-Φ6.7	Φ103	Φ140	12	6
IPMC02-65LM00	Φ101	-	Φ25	75	8	45	28.3	M10X20	Φ109	Φ140	Φ38	96	166	10	41.3	M10	Φ126	8-Φ6.7	Φ103	Φ140	12	6
IPMC02-80LM00	Φ141	-	Φ35	65	10	45	38.3	M12X25	Φ152	Φ180	Φ42	83.5	143	12	45.3	M10	Φ165	12-Φ6.7	Φ145	Φ180	14	4
IPMC02-120LL00	Φ141	-	-	60	10	47	38.3	M12X25	Φ152	Φ180	Φ48	80	130	14	51.8	M10	Φ165	8-Φ6.7	Φ145	Φ180	14	4



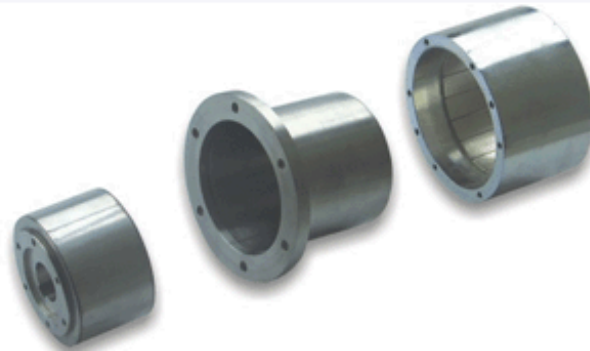
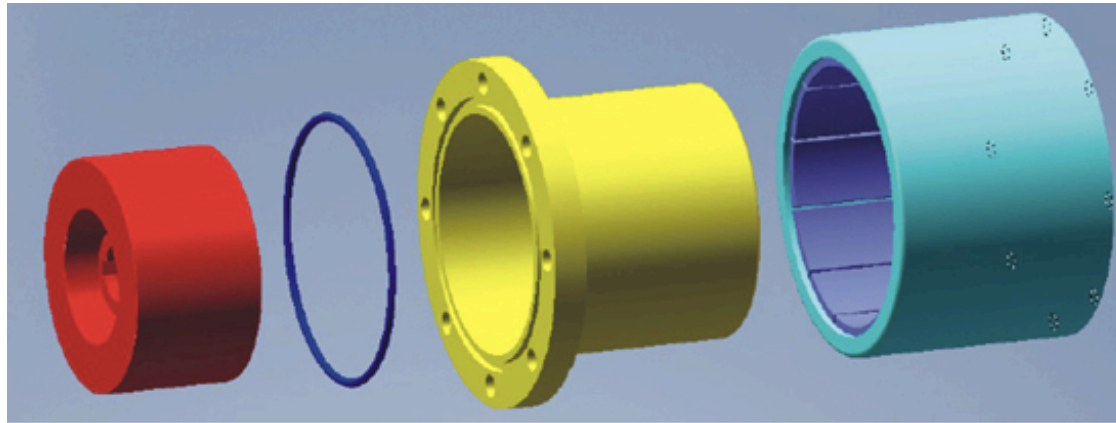
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### 03 Flange type





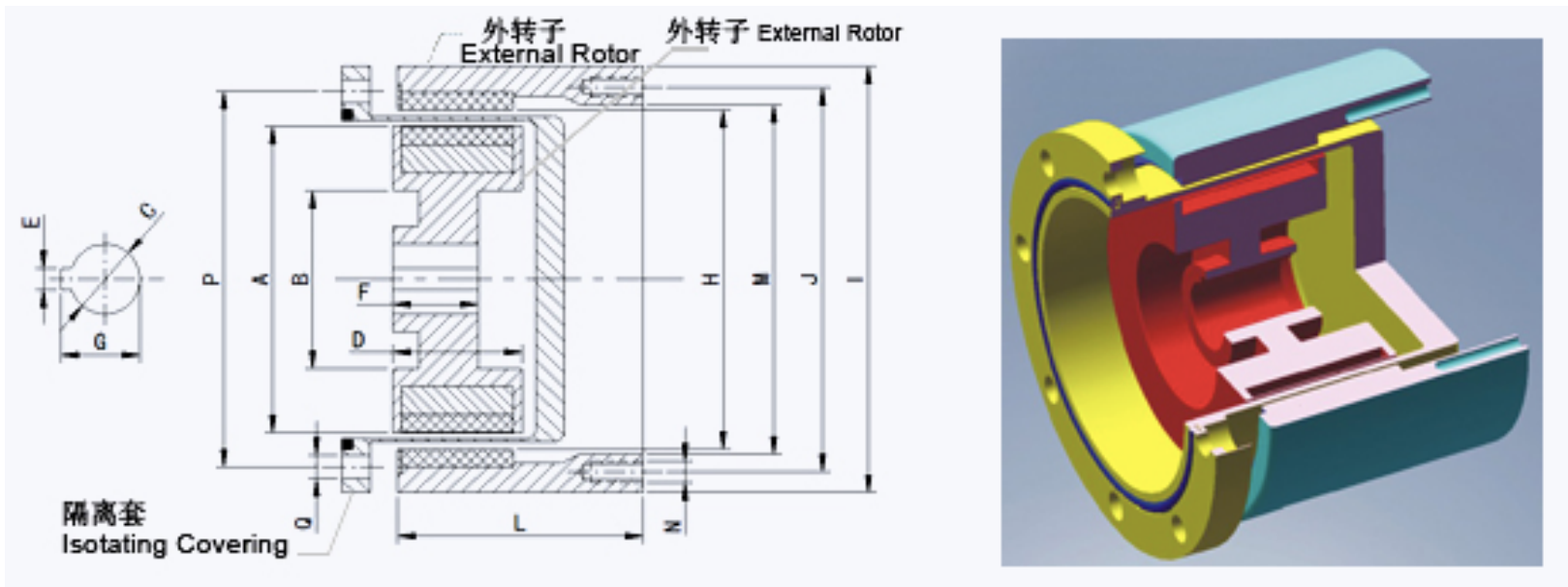
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### 03 Flange type





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### 03 Flange type

Item	Internal Roto(mm)								External Rotor(mm)							Isolating Covering(mm)					
	A	B	C	D	E	F	G	Shaft Pin	H	I	J	L	N	M	P	Q	R	S	T	U	
IPMC03-3LM00	Φ35	-	Φ10	26	-	18	-	M6X12	Φ42	Φ60	Φ50	46	6-M4	Φ40	Φ50	4-Φ5.4	Φ38	Φ60	6	6	
IPMC03-5MM00	Φ42	-	Φ12	27	4	18	13.8	M6X16	Φ49	Φ72	Φ60	46	4-Φ6.7	Φ52	Φ60	4-Φ6.7	Φ44	Φ74	8	8	
IPMC03-16LM00	Φ56	-	Φ12	45	4	25	13.8	M6X16	Φ63	Φ89	Φ80	75	6-M5	Φ70	Φ75	4-Φ6.7	Φ58	Φ89	8	8	
IPMC03-16LM01	Φ56	-	Φ12	45	4	25	13.8	M6X16	Φ63	Φ89	Φ80	75	4-M5	Φ70	Φ75	4-Φ6.7	Φ58	Φ89	6	10	
IPMC03-16MM00	Φ56	-	Φ12	45	4	25	13.8	M6X16	Φ63	Φ89	Φ80	75	6-M5	Φ70	Φ75	4-Φ6.7	Φ58	Φ89	8	8	
IPMC03-22LM00	Φ88	-	Φ20	29	6	25	22.8	M8X20	Φ97	Φ122	Φ110	70	8-M6	Φ98	Φ108	6-Φ6.7	Φ91	Φ122	8	8	
IPMC03-30LM00	Φ88	-	Φ20	48	6	30	22.8	M8X20	Φ97	Φ122	Φ110	81	8-M6	Φ98	Φ108	6-Φ6.7	Φ91	Φ122	8	8	
IPMC03-40LM00	Φ101	-	Φ25	49	8	28	28.3	M10X20	Φ109	Φ140	Φ124	83	8-M8	Φ110	Φ126	8-Φ6.7	Φ103	Φ140	12	6	
IPMC03-50LM00	Φ107	-	Φ20	70	6	30	22.8	M6X16	Φ113.4	Φ145	Φ135	79.5	4-M6	Φ126	Φ133	12-Φ8.7	Φ109	Φ153	12	14.5	
IPMC03-65LM00	Φ101	-	Φ25	77	8	45	28.3	M10X20	Φ109	Φ140	Φ124	111	8-M8	Φ110	Φ126	8-Φ6.7	Φ103	Φ140	12	6	
IPMC03-80LM00	Φ106	-	Φ32	65	10	21	36.5	M6X25	Φ115	Φ145	Φ135	82	4-M6	Φ127	Φ135	6-Φ8.7	Φ110	Φ153	13	18	
IPMC03-80LM00	Φ141	Φ92	Φ40	65	12	45	43.3	M12X25	Φ152	Φ180	Φ168	100	8-M8	Φ154	Φ164	8-Φ6.7	Φ145	Φ180	12	8	
IPMC03-100LM00	Φ131	Φ82	Φ32	80	10	24.5	35.3	M8X35	Φ139	Φ170	Φ160	100	4-M6	Φ152	Φ158	8-Φ8.7	Φ133	Φ178	14	21	
IPMC03-110LH00	Φ141	Φ92	Φ40	85	10	50	43.3	M12X25	Φ152	Φ184	Φ168	115	12-M8	Φ156	Φ164	12-Φ6.7	Φ145	Φ180	12	3	
IPMC03-110LM00	Φ141	Φ92	Φ35	80	10	55	38.3	M12X25	Φ152	Φ180	Φ168	115	12-M8	Φ154	Φ164	12-Φ6.7	Φ145	Φ180	12	3	
IPMC03-140LM00	Φ141	Φ92	Φ40	110	12	80	43.3	M12X25	Φ152	Φ190	Φ170	145	12-M10	Φ154	Φ164	12-Φ6.7	Φ145	Φ180	12	3	
IPMC03-180LM00	Φ141	Φ92	Φ40	140	12	95	43.3	M12X25	Φ152	Φ190	Φ170	175	12-M10	Φ154	Φ164	12-Φ6.7	Φ145	Φ180	12	3	
IPMC03-220LM00	Φ141	Φ92	Φ48	160	14	110	51.8	M12X25	Φ152	Φ190	Φ170	195	12-M10	Φ154	Φ164	12-Φ6.7	Φ145	Φ180	12	3	
IPMC03-300LM00	Φ162	-	Φ65	100	18	60	69.4		Φ170	Φ198	Φ188	123	12-M6	Φ180	Φ192	12-Φ11	Φ163.5	Φ218	16	10	
IPMC03-400LH00	Φ195	-	Φ70	127	20	107	79.9	M12X25	Φ203	Φ234	Φ222	152	6-M6	Φ212	Φ164	12-Φ11	Φ198	Φ278	16	21.5	



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**Cooling unit:** optional part specially for high running speed

