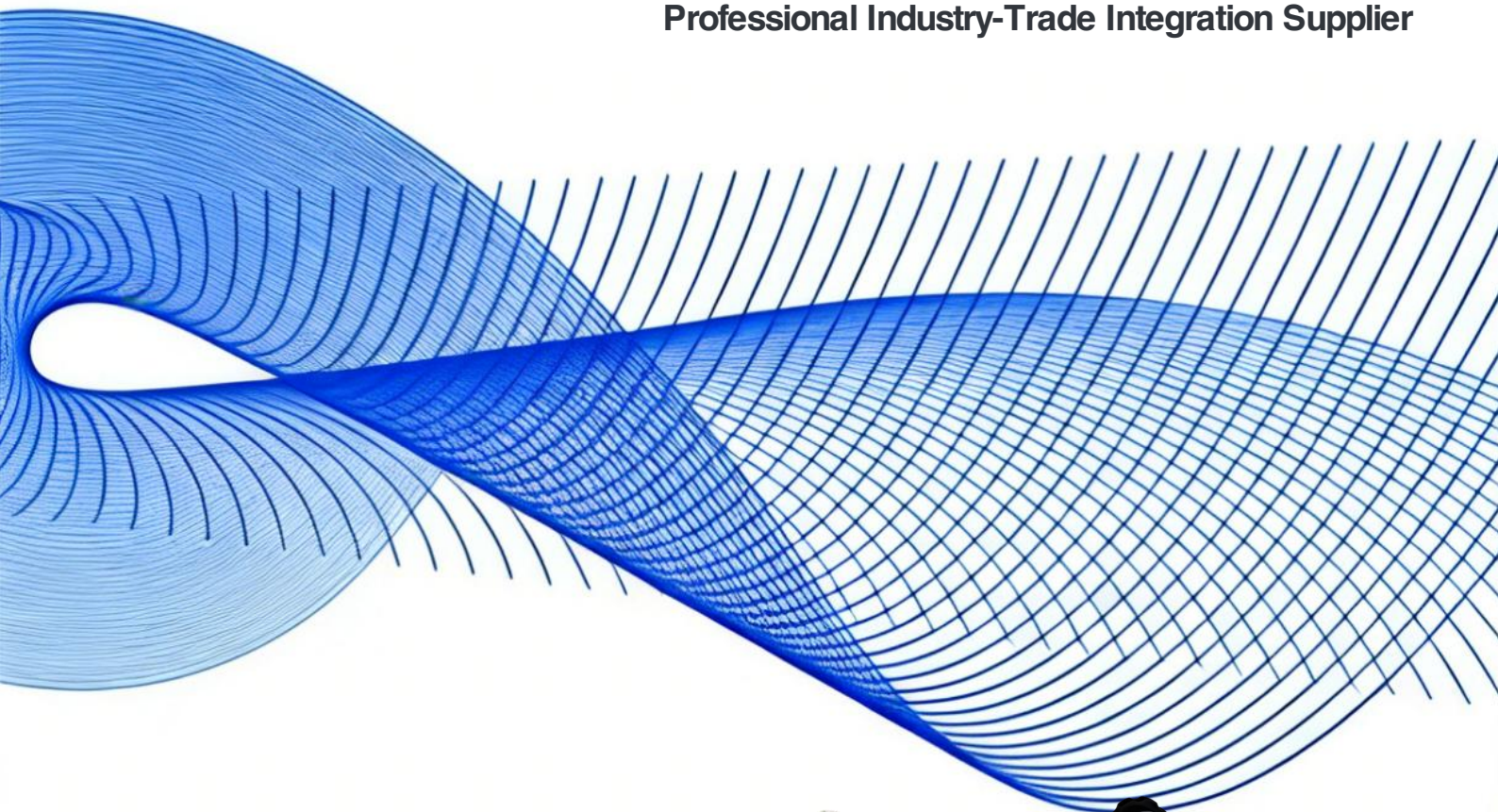


Hangzhou GT Rail Traffic Equipment Co., Ltd

Professional Industry-Trade Integration Supplier



Stepless Variator Catalogue

About Us

IVH DRIVE was officially established on 15th June 2011 in Hangzhou. Currently, we mainly sell reducers, motors, blowers, and gear pumps in the international market, and even providing customers with a complete set of equipment transmission solutions. We are always focused on quality control, process, materials, design, and other aspects. We are steadily advancing in the fiercely competitive market, striving to provide customers with high-quality products and thoughtful services.



2011

SINCE

25+

EXPORT COUNTRIES

40+

PRODUCT COVERAGE

8

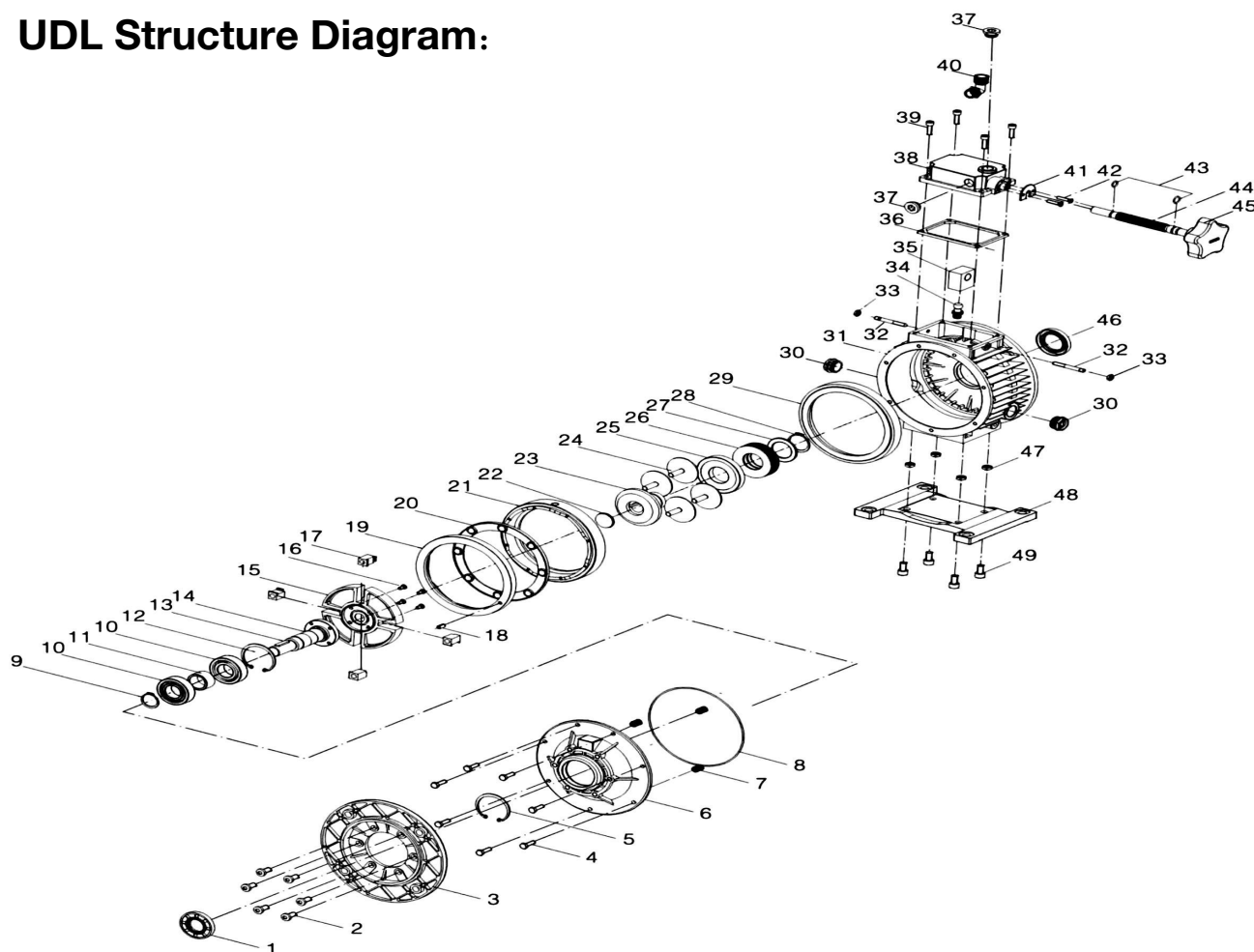
FACTORIES DISTRIBUTION



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UDL Structure Diagram:



1	油封 / Oil seal	26	蝶形弹簧 / Will spring
2	内六角圆柱头螺栓 / Hexagonal cylindrical head bolts	27	挡圈 / Block circle
3	输出法兰 / Output flanges	28	轴用挡圈 / Shaft block
4	外六角圆柱头螺栓 / Hexagonal cylindrical head bolts	29	定环 / Set ring
5	孔用挡圈 / Hole block circle in	30	视油镜 / Depending on oil mirror
6	输出端盖 / Output cover	31	箱体 / Cabinet
7	弹簧 / Spring	32	螺栓 / Bolt
8	O型橡胶密封圈 / O-ring	33	螺母 / Nut
9	轴用挡圈 / Shaft block	34	球头调速柄 / Ball head speed control handle
10	轴承 / Bearing	35	调速螺母 / Speed nuts
11	轴承隔套 / Bearing every set of	36	橡胶垫片 / Rubber gaskets
12	孔用挡圈 / Hole block circle in	37	油塞 / Oil plug
13	平键 / Parallel key	38	操作盖 / Operating cover
14	输出轴 / Output shaft	39	内六角圆柱头螺栓 / Inside hexagonal cylindrical head bolts
15	转臂 / Turn arm	40	弯管 / Bent pipe
16	螺钉 / Screws	41	挡板 / Baffle
17	滑块 / Slider	42	螺钉 / Screws
18	弹性圆柱销 / Elastic cylindrical pin	43	O型橡胶密封圈 / O-ring
19	固定凸轮 / Fixed CAM	44	丝杆 / Screw
20	滚珠环 / Ball ring	45	调速柄 / Speed control handle
21	调速凸轮 / Speed CAM	46	油封 / Oil seal
22	平面油封 / Plane oil seal	47	螺母 / Nut
23	主动轮 / Active wheel	48	底脚 / Foot bottom
24	行星锥盘 / Planet cone-disk	49	内六角圆柱头螺栓 / Inside hexagonal cylindrical head bolts
25	压盘 / Pressure plate		

UDL Summarize:

结构特点 / STRUCTURE FEATURES

1. 调速精度高，速度重复精度达0.5-1转。
2. 可双向连续运转。
3. 输出传动比在1: 1.4至1: 7之间（UDL002除外）连续可调，变速比达5。
4. 运行效率高，平稳静噪。
5. 密封性好，对使用环境适应性强。
6. 能与各种减速机灵活组合，解决各种传动变速方案。

1. High precision for the speed adjustment, the iterative precision of the speed is between 0.5-1cycle.
2. Can run bi-directional continuously.
3. The output transmission ratio is between 1:1.4and 1:7(except UDL002) and is adjustable.
4. High operating efficiency, stable and no noise.
5. Good sealing, and good adaptability in the operating environment.
6. Good sealing, and good adaptability in the operating environment.
7. Can combine with all kinds of reducers agilely to handle various kinds of transmission projects.

主要材料 / MAIN MATERIALS

1. 外壳：UDL为铝合金，UDT为铸铁；
2. 内部零件：为热处理淬硬的GCr15钢；
3. 轴：热处理淬硬并经低温回火的20Cr钢。

1. Outside shell: Aluminum alloy for UDL and casting iron for UDT.
2. Inner parts: Gcr15 steel heat hardening.
3. Shaft: 20Cr with heat treatment and tempered with low temperature.

涂漆 / PAINTING

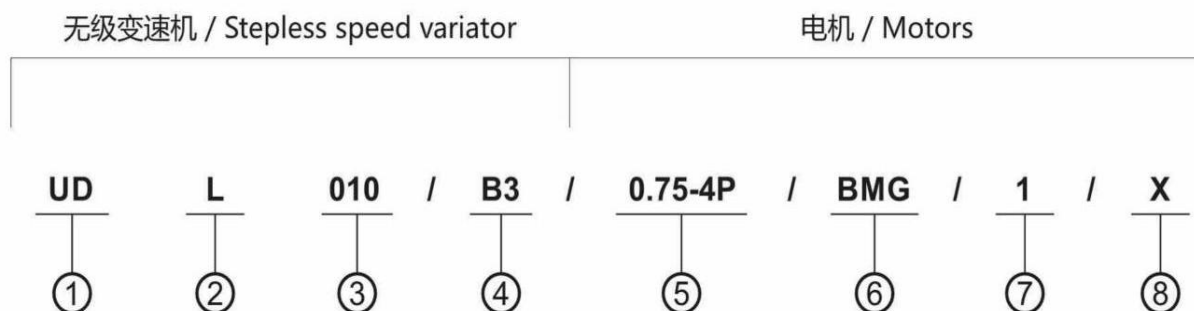
RAL7035	浅灰色 / grey
RAL5010	蓝色 / blue

配套电机 / MATCHED MOTORS

宙义铝壳电机，IP54/55，B5安装法兰。

BMEMB motors in Aluminum case, mounting position B5 and IP54/55.

UDL Model Illuminate:

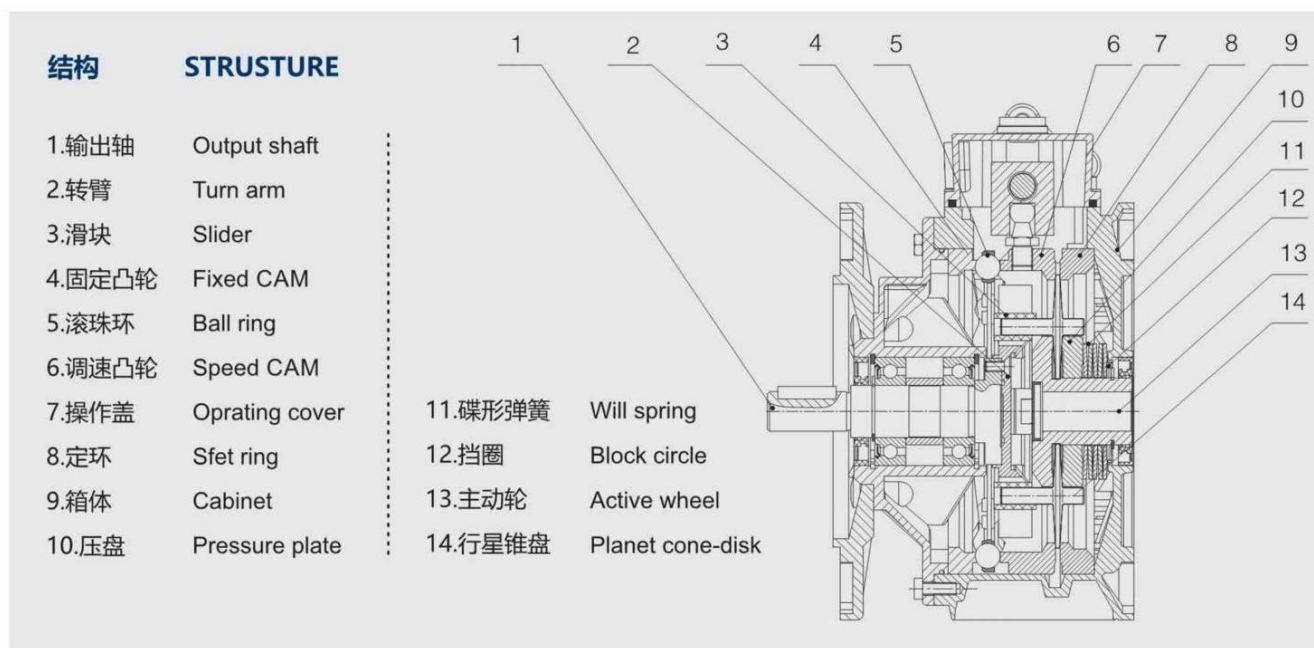


NO	说明	Description
1	无级变速机代号	Code of stepless speed variator
2	L: 铝合金机壳 T: 铸铁机壳	L:Aluminium alloy casing T:cast iron casing
3	无级变速机机座号	Steat NO. of stepless speed variato
4	B3: 底脚安装机型 B5: 法兰安装机型	B3:Foot-mounted model B5:Flange-mounted positon
5	1.无代号表示不带电机 2.0.37-4P: 电机功率、级数 3.80ST-M01330:伺服电机型号	1. No mark means without motor 1.0.37-4P: Model motors(poles of power) 2.80ST-M01330: Servo motor type
6	1.无代号表示不带制动器 2.BMG:制动器	1.No mark means without brake 2.BMG:brake
7	电机接线盒位置，默认位置1可以不写	Position of motor terminal box default position 1 not to write out is ok
8	电机进线位置，默认位置X可以不写	Coil position for motor , default position X not to write out is ok

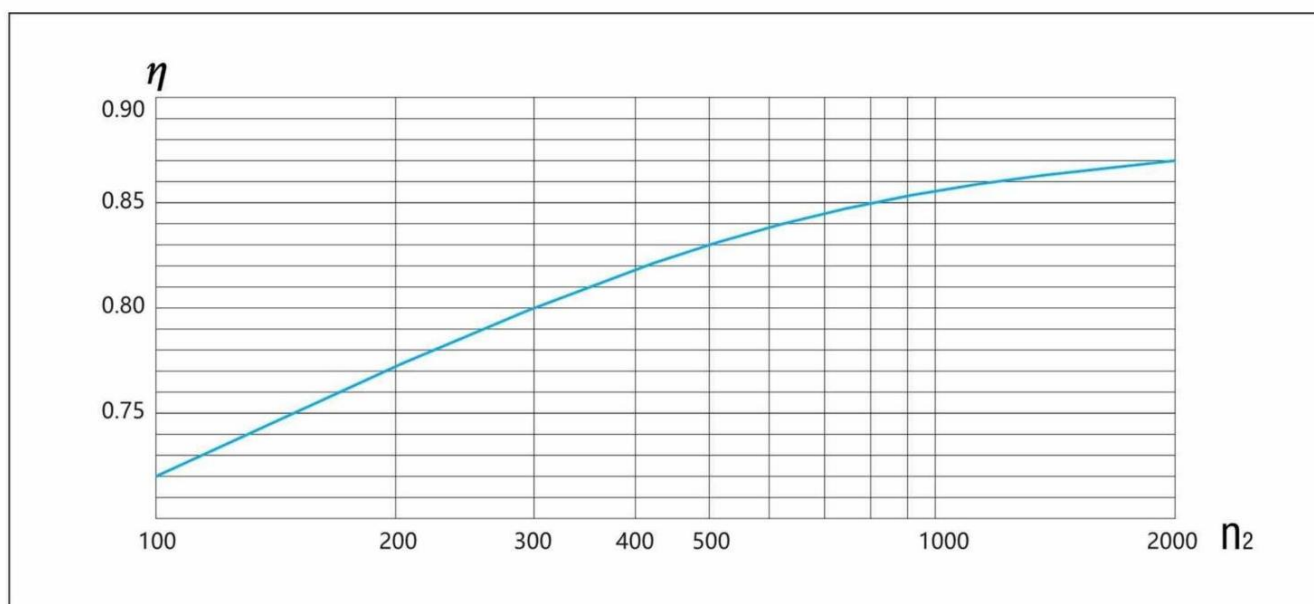
订单时请说明是否带电机，一般按不带电机供应。

When ordering, you should show whether the reducers are equipped with motors, otherwise reducers aren't supplied with motors.

示例 / Example: **UDL005/B5/0.37-4P**



变速机的效率 / Efficiency

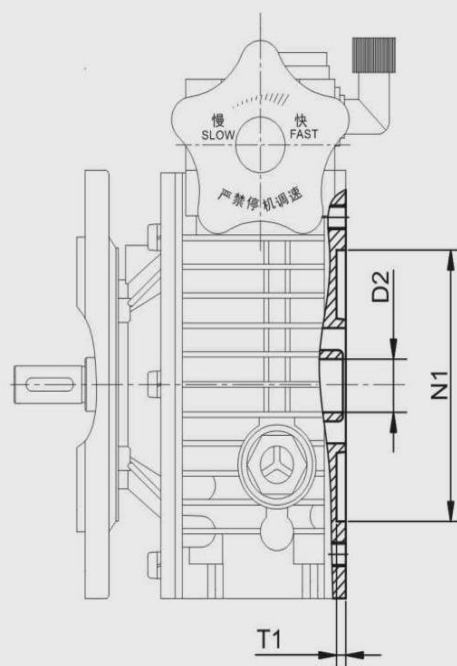
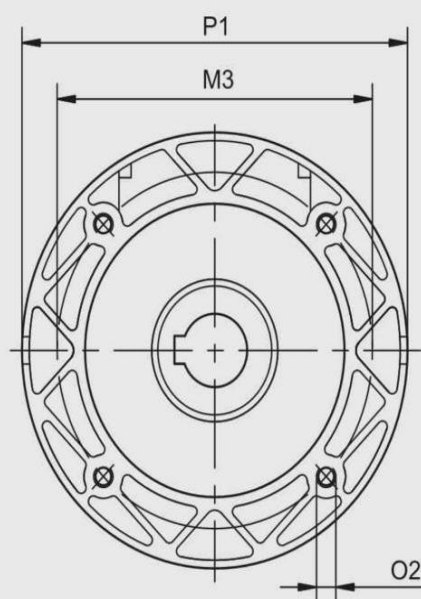


注：每型变速机的效率曲线并不尽相同，但大致趋势规律是相同的。

Note: the efficiency curve for different variator is not the same. But its trend rules are same.

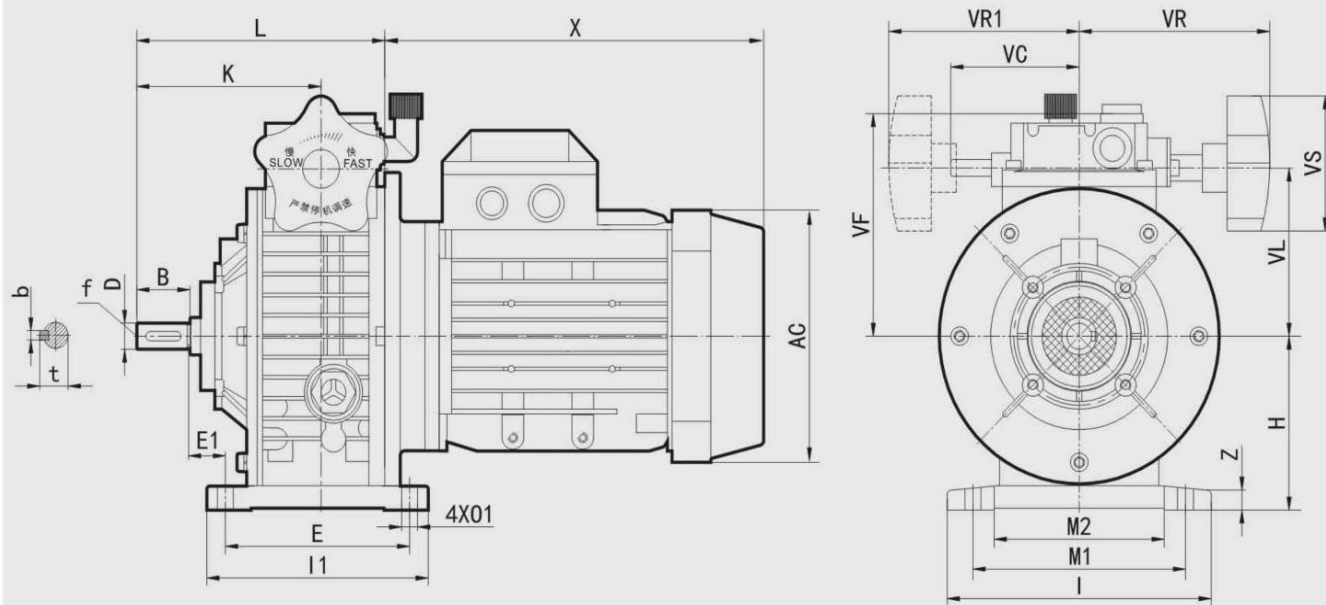
UDL Outline Dimension Sheet:

变速机的电机配合接口 / Adaptation Interface



TYPE	PAM-IEC	P1	N1 (H8)	M3	O2	D2 (F7)	T1
UDL002	63B5	140	95	115	M8	11	5
UDL005	71B5	160	110	130	M8	14	5
UDL010	80B5	200	130	165	M10	19	6
	90B5	200	130	165	M10	24	6
UDT020	90B5	200	130	165	M10	24	6
UDT030	100/112B5	250	180	215	M12	28	6
UDT050	132B5	300	230	265	M12	28	6

B3型外形尺寸 / B3 Size



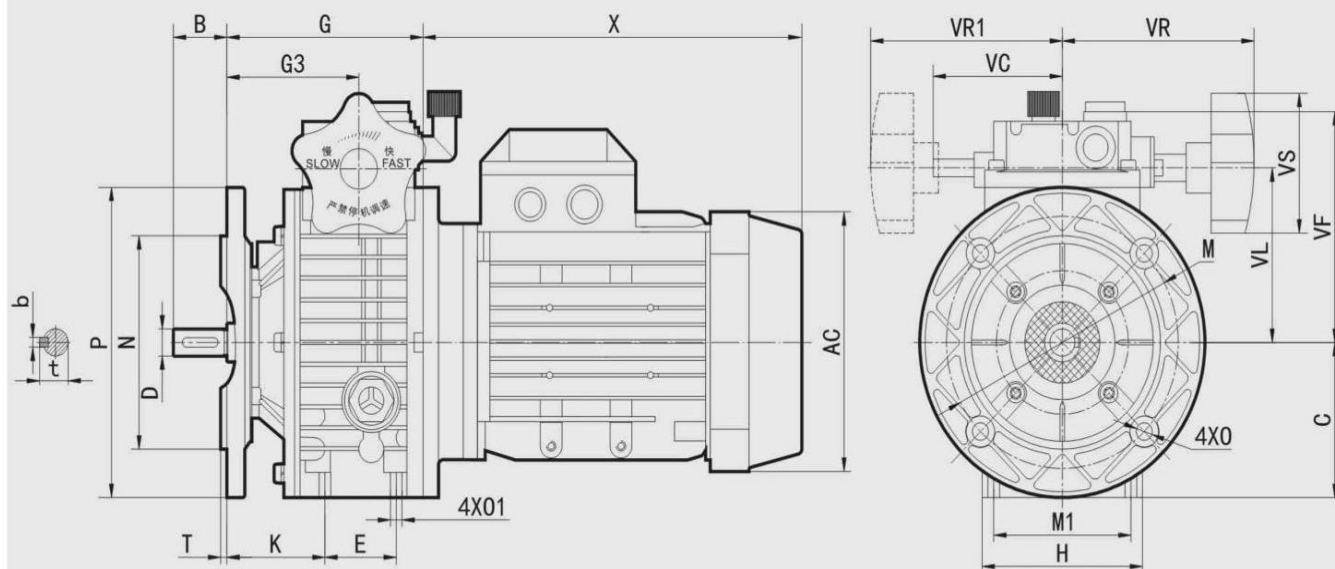
B3型机座安装形式 / B3 type frame installation form

TYPE	B	D(j6)	E	E1	H	I	I1	K	L	M1	M2	01	VC	VF	VL	VR	VR1	VS	b	t	z	f
UDL002	23	11	105	17.5	80	145	120	87.5	135.5	110	71	9	71	111	78	110	110	85	4	12.5	10	-
UDL005	30	14	104	20	93	149	125	104	140	120	96	9	71	123	90	110	110	85	5	16	10	M6
UDL010	40	19	125	26	113	190	150	125.5	179	160	135	11	79	140	107	120	120	110	6	21.5	15	M6
UDT020	50	24	140	49	123	241	150	165	238	180	143	12	-	144	122	150	-	110	8	27	18	M8
UDT030	60	28	230	25	150	300	270	191	268	245	190	14	-	188	150	160	-	110	8	31	25	M8
UDT050	70	38	250	33	200	365	290	201	319	315	245	18	-	-	192	194	-	110	10	41	30	M10

注：1. X、AC尺寸参见本公司样本《通用电机》篇中的尺寸部分。

NOTE: 1. Pls refer to our catalogue Electric Motor for the size of X&AC.

B5型外形尺寸 / B5 Size



B5型机座安装形式 / B5 TYPE FRAME INSTALLATION FORM

TYPE	B	C	D(j6)	E	G	G3	H	M	M1	N	O	O1	P	T	K	VC	VF	VL	VR	VR1	b	t
UDL002	23	70	11	50	112.5	64.5	72	115	60	95	9	M6	140	3.5	46	71	111	78	110	110	4	12.5
UDL005	30	80	14	40	110	74	90	130	77	110	9	M8	160	3.5	53	71	123	90	110	110	5	16
UDL010	40	100	19	58	139	85.5	98	165	84	130	11	M8	200	3.5	60	79	140	107	120	120	6	21.5
UDT020	50	109	24	-	188	115	241	165	-	130	11	-	200	3.5	-	-	144	122	150	-	8	27
UDT030	60	130	28	-	208	131	270	215	-	180	15	-	250	4	-	-	188	150	160	-	8	31
UDT050	70	200	38	-	244	131	-	265	-	230	19	-	300	4	-	-	-	192	194	-	10	41

注：1. X、AC尺寸参见本公司样本《通用电机》篇中的尺寸部分。

NOTE: 1. Pls refer to our catalogue Electric Motor for the size of X&AC.

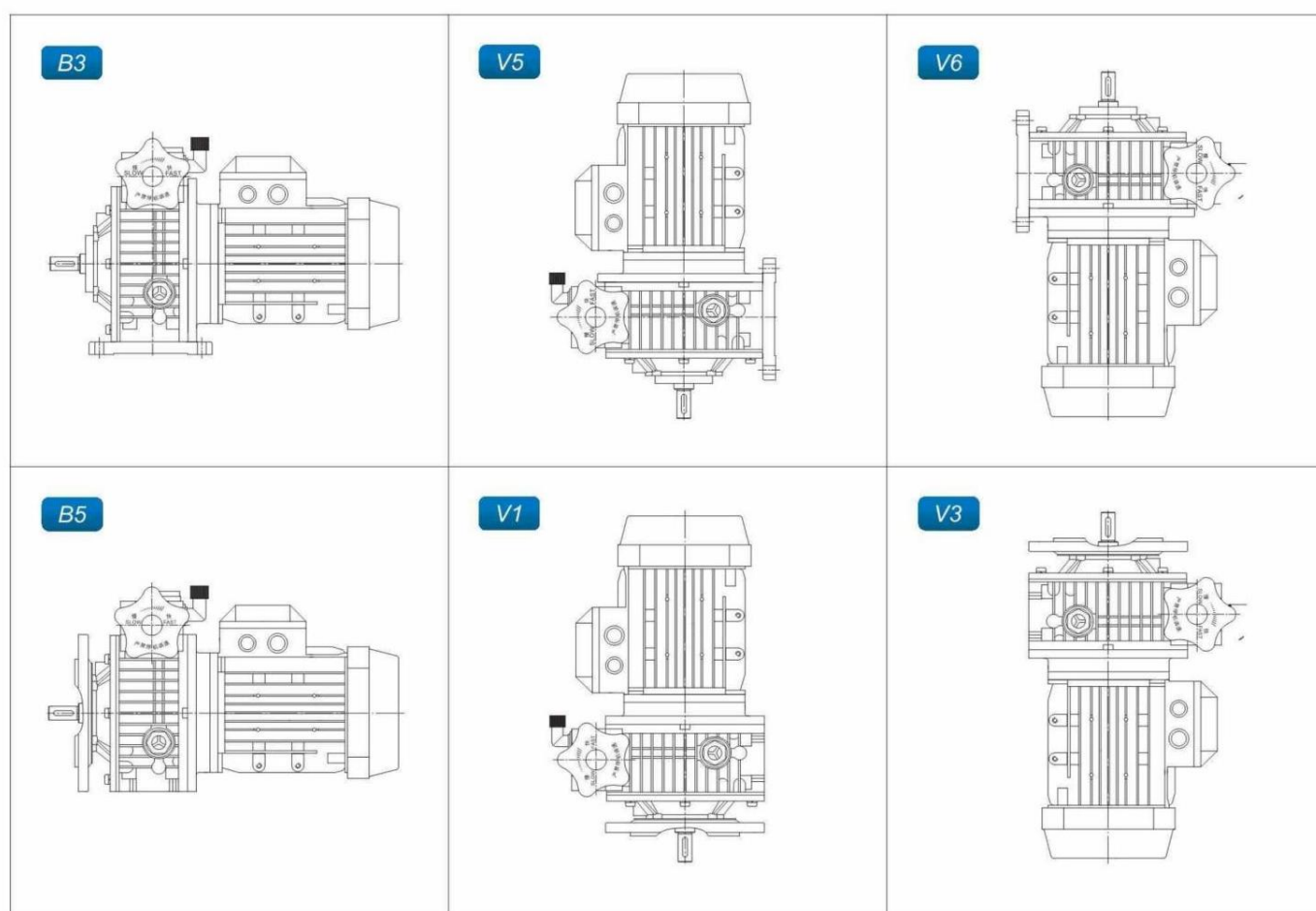
UDL Installation Positions Diagram:

UD系列无级变速机性能参数

Performance table for UD series speed variator (n1=1400r/min)

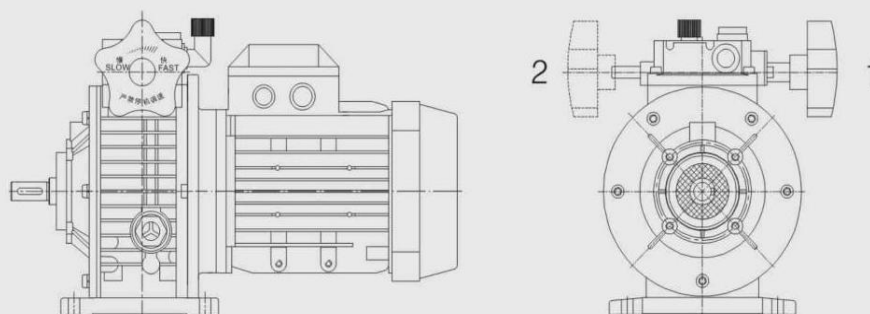
电机功率 / MOTOR POWER	型号/model	I	n2 (r/min)	M2 (Nm)
0.18kW	UDL002	1.6-8.2	880-170	1.5-3
0.25kW	UDL005	1.4-7	1000-200	2.2-6
0.37kW	UDL005	1.4-7	1000-200	3-6
0.55kW	UDL010	1.4-7	1000-200	4-8
0.75kW	UDL010	1.4-7	1000-200	6-12
1.1kW	UDT020	1.4-7	1000-200	9-18
1.5kW	UDT020	1.4-7	1000-200	12-24
2.2kW	UDT030	1.4-7	1000-200	18-36
3.0kW	UDT030	1.4-7	1000-200	24-48
4.0kW	UDT030	1.4-7	1000-200	32-64
5.5kW	UDT050	1.4-7	1000-200	45-90
7.5kW	UDT050	1.4-7	1000-200	59-118

UD与NMRV安装方位 / UD AND NMRV INSTALLATION POSITION



附件位置 / THE ATTACHMENT POSITION

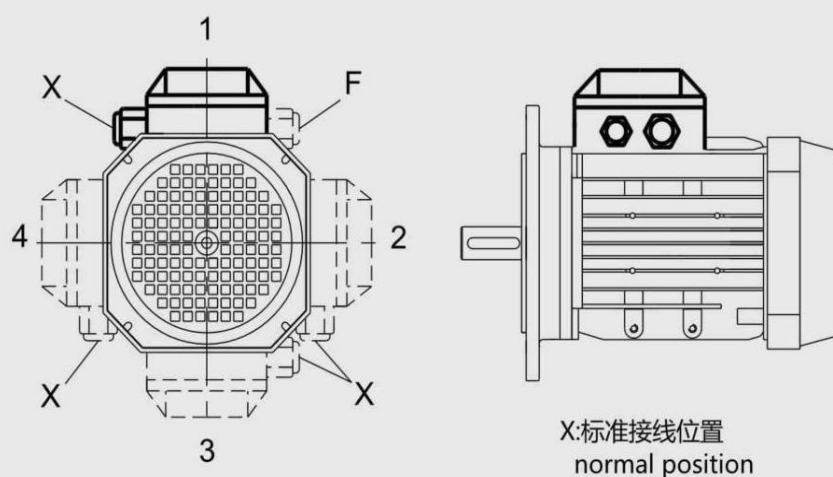
手轮位置 / THE POSITION OF THE HAND WHEEL



注：如没有特别说明，手轮将按照如图1位和B3安装方位的组合方式提供。

Note: if no special note, the handwheel will be in accordance with the figure 1 and B3 installation azimuth combination is provided.

电机接线盒位置 / MOTOR TERMINAL BOX POSITION

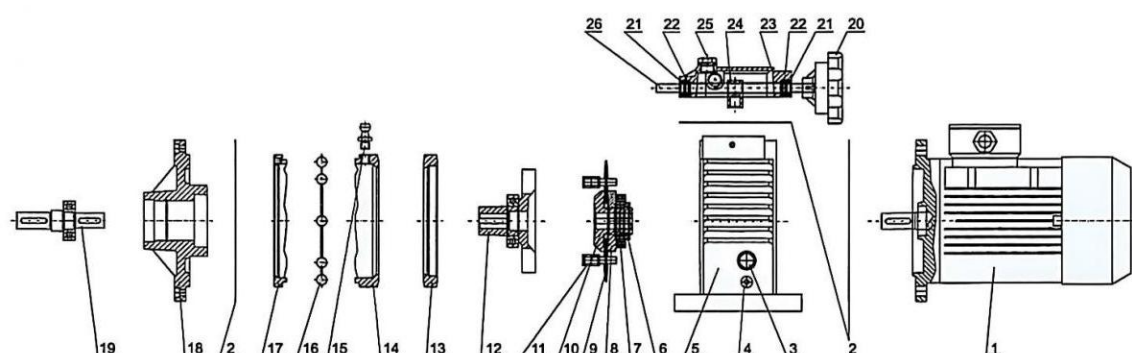


MB Summarize:

Performance Characteristics

1. The speed regulation accuracy is 1 rpm, leading among similar products currently available.
2. Continuously variable speed can be achieved from the minimum to maximum speed within a ratio of 1:5 at any position.
3. All transmission components undergo strict processing, precision machining, and grinding; therefore, the service life is long and the noise level is low.
4. It can be reasonably combined with gear reducers, cycloid pinwheel reducers, worm gear reducers, etc., to meet different application requirements for output torque, minimum and maximum output speeds.

Structural Exploded View and Transmission Principle



No.	Part Name	No.	Part Name	No.	Part Name	No.	Part Name
(1)	Motor	(2)	Paper Gasket	(3)	Oil Mirror	(4)	Oil Drain Plug
(5)	Housing	(6)	Driving Wheel Press Ring	(7)	Disc Spring	(8)	Pressure Wheel
(9)	Planetary Friction Wheel	(10)	Driving Wheel	(11)	Slider Bearing	(12)	Planetary Carrier
(13)	Fixed Ring	(14)	Speed Regulating Cam	(15)	Adjusting Handle	(16)	Flat Spring Clip
(17)	Fixed Cam	(18)	Output Flange	(19)	Output Shaft	(20)	Speed Regulating Handwheel
(21)	Skeleton Oil Seal	(22)	Bearing	(23)	Speed Regulating Box	(24)	Adjusting Block
(25)	Ventilation Oil Filler Plug	(26)	Speed Regulating Screw				

Transmission Principle

This machine is mainly composed of a motor, a friction transmission mechanism, a pressure device, and a speed regulating control mechanism.

The working process of the friction transmission mechanism: A set of tapered planetary friction wheels (9) are sandwiched externally between the fixed ring (13) and the speed regulating cam (14), and internally between the driving wheel (10) and the pressure wheel (8) to form a friction pair. When the motor (1) drives the driving wheel (10), the friction wheels perform pure rolling. Since the fixed ring and the speed regulating cam are stationary, the friction wheels both rotate on their own axes and revolve, driving the planetary carrier (12) to rotate via the friction wheel shafts and slider bearings (11). The pressure device consists of a set of disc springs (7), which apply axial force to the driving wheel and pressure wheel.

The working process of the speed regulating mechanism: Rotating the speed regulating handwheel (20) drives the speed regulating screw to change the angular position of the speed regulating cam (14) along the curved surface of the fixed cam (17), with the flat spring clip (16) acting as an intermediate transmission component. This generates axial movement of the speed regulating cam, changing the gap between the speed regulating cam and the fixed ring. Under the drive of the motor's rotation speed and the principle of centrifugal force, the planetary friction wheels move radially, uniformly changing the working radius of the friction contact area, and ultimately achieving stable infinitely variable speed regulation.

Model Designation Method

Basic Type:

MB L 07 Y-0.75

| | | |

| | | Motor power (omitted if motorless)

| | Motor code (omitted if motorless)

| Model number

Structure form: Vertical (Horizontal = W)

The series speed drive code

With 1-stage / 2-stage Gear Type:

MB W 40 Y-3-2C-25

| | | | |

| | | | Gear ratio

| | | With 2-stage gear reduction (1-stage = C)

| | Motor power (omitted if motorless)

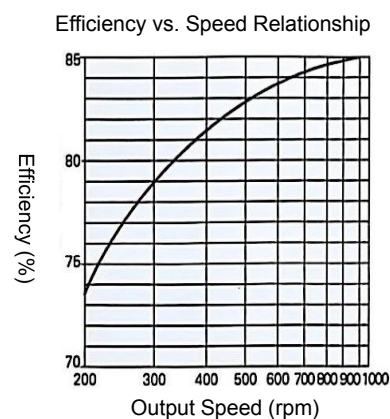
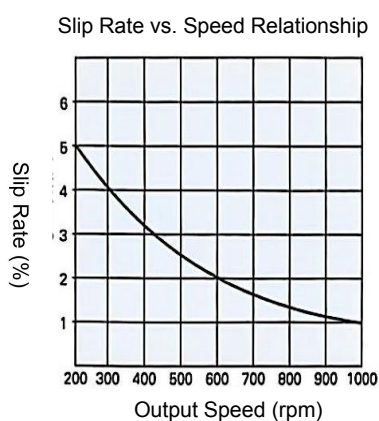
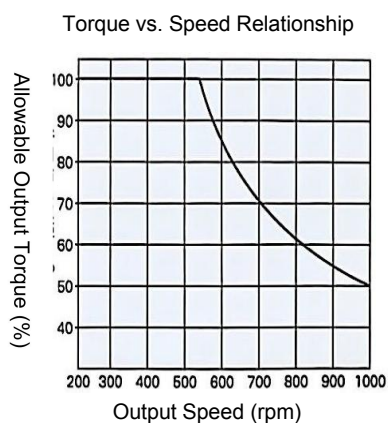
| | Motor code (omitted if motorless)

| Model number

Structure form: Horizontal (Vertical = L)

The series speed drive code

Performance Curves

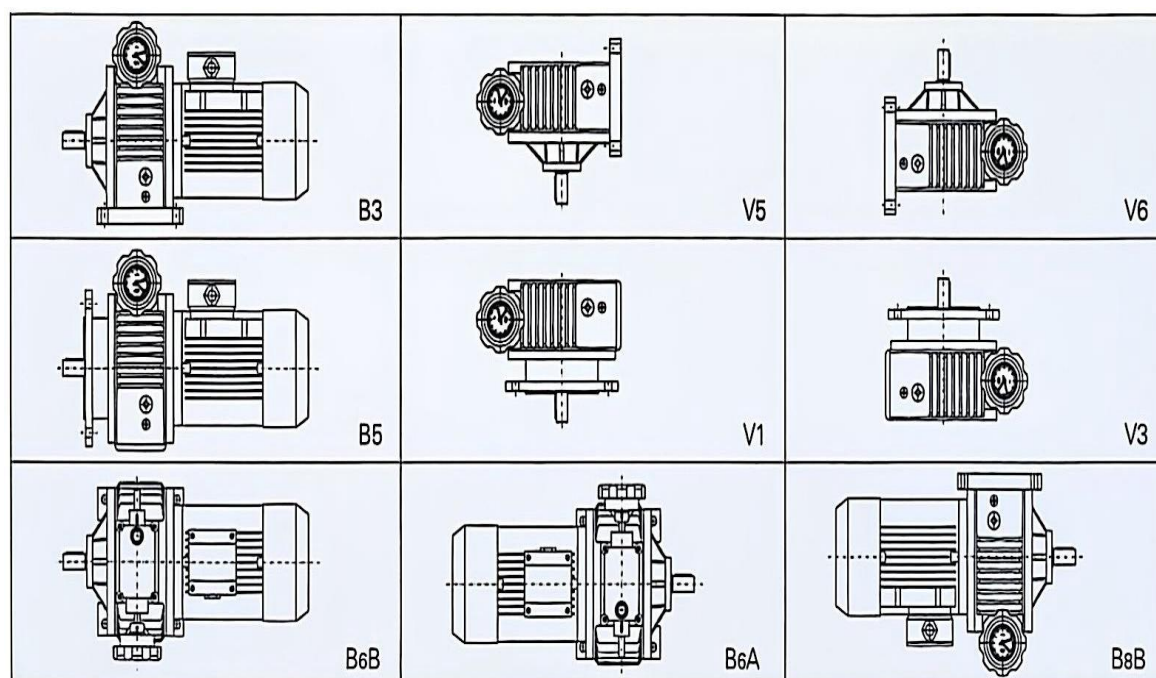


MB series transmission capacity and selection parameter table

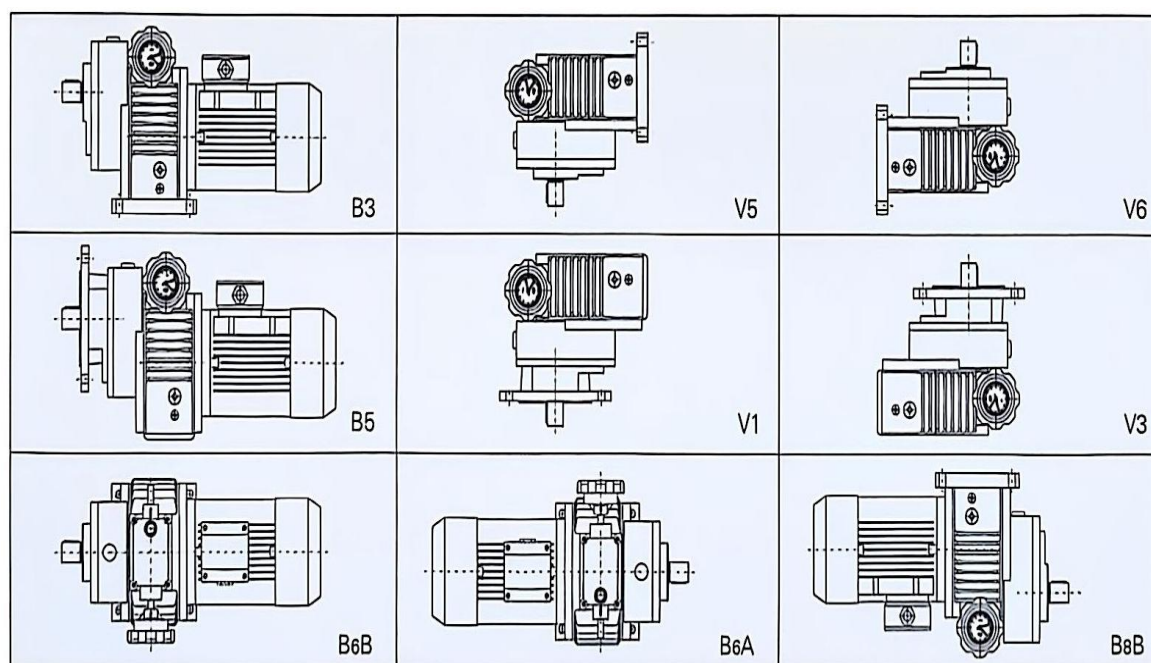
Model				MB02	MB04	MB07		MB15		MB22	MB40		MB50	MB75	MB150	
Rated power: KW Input speed: 1450r/min				0.18	0.37	0.55	0.75	1.1	1.5	2.2	3	4	5.5	7.5	11	15
Variable type	Code	Speed range (r/min)	Ratio	Output allowable torque (N.m)												
Basic	MB	1000-200		1.5-3	3-6	5-10	6-12	9-18	12-14	18-36	24-48	32-64	45-90	60-120	88-176	118-235
With 1-stage Gear Type	MB-C	2000-4000	1/2					4.2-8.4	5.5-11	8.6-17	11-22	15-30				
		150-300	2/3					5.6-11	7.5-15	11-22	15-30	20-40				
		675-135	1.5	2.1-4.2	4.2-8.4	7-14	8.5-17	12.5-25	17-34	25.5-51	34-68	45.5-91	64-128	84-168		
		500-100	2	2.9-5.7	5.7-11	9.5-19	11.5-23	17-34	22-45	34-68	46-91	61-121	86-171	114-228	167-334	248-496
		400-80	2.5	3.5-7	7-14	12-14	14-28	21-42	28-56	43-85	57-114	76-152	107-214	142-284	209-418	280-560
		300-60	3.3	4.6-9.2	9.3-18.6	15.5-31	18.6-37	28-56	37-74	56-111	75-150	99-198	140-279	186-372	275-551	370-740
		200-40	5	6.2-12.5	12.5-25	21.7-43.5	26-52	39.5-79	52.6-105	73-146	97-195	130-260	194-387	258-516	418-836	560-1121
With 2-stage Gear Type	MB-2C	125-25	8	10-20	20-40	34-68	40-80	60-120	80-160	122-243	162-324	216-432				
		100-20	10	12-26	26-53	42-86	50-102	78-156	105-213	158-319	210-428	282-570				
		90-18	11	14-28	28-56	45-90	54-108	80-160	108-218	162-324	216-432	288-576				
		75-15	13.3	17-34	34-68	56-112	68-136	100-200	135-270	203-408	270-540	360-720				
		60-12	16.6	21-42	42-84	70-140	84-168	125-250	167-334	251-502	335-670	446-892				
		50-10	20	25-50	53-106	90-180	96-192	130-260	192-384	260-520	412-824	550-1110				
		40-8	25	28-57	61-120	109-205	116-218	142-275	215-398	270-535	423-845	565-1180				
With 1-stage Cycloidal Pinwheel Reducer Type	MB-X	110-22	9	12-24	48-48	41-81	49-97	73-146	97-194	146-292	194-389	259-518	356-729	486-972	612-1224	955-1903
		90-18	11	15-30	30-60	50-99	59-119	89-178	119-238	178-356	238-475	317-643	446-891	594-1188	712-1425	1168-2326
		58.8-11.8	17	23-46	46-92	77-153	92-184	138-275	184-367	275-550	367-734	490-979	689-1377	918-1836	871-1742	1805-3595
		43.5-8.7	23	31-62	62-134	104-207	124-248	186-373	248-496	373-745	497-994	662-1325	932-1863	1242-2484	1346-2962	2442-4864
		34.5-6.9	29	39-78	78-156	131-261	157-313	236-470	313-626	470-940	626-1253	835-1670	1175-2349	1566-3132	1980-3960	3079-6133
		28.5-5.7	35	47-94	95-189	157-314	189-378	284-567	378-756	567-1134	756-1512	1008-2016	1418-2835	1890-3780	2296-4593	3717-7402
		23.5-4.7	43	58-116	116-232	194-387	232-464	348-697	464-928	697-1393	929-1858	1238-2477	1742-2483	2322-4644	2772-5544	4566-9094
		17-3.4	59	77-159	159-318	265-530	318-637	478-956	637-1274	956-1912	1274-2549	1699-3398	2390-4779	3186-6372	3722-7444	6265-12478
		14-2.8	71	96-191	192-383	319-638	383-766	575-1150	766-1532	1150-2300	1532-3064	2045-4090	2876-5751	3834-7668	4672-9345	7540-15016
		11.5-2.3	87	117-235	235-470	391-72	470-940	705-1409	940-1849	1409-2819	1879-3758	2506-5011	3524-7047	4698-9396	5623-11246	9239-18400
With 2-stage Cycloidal Pinwheel Reducer Type	MB-XE	8.25-1.65	121	149-297	297-594	459-990	594-1188	891-1782	1188-2376	1782-3564	2352-4704	3136-6272	4410-8220	5880-		
		5.35-1.07	187	228-456	456-912	760-1520	912-1824	1368-2736	1824-3676	2736-5472	3648-7296	4832-9664	6840-13680	9120-		
		3.45-0.69	289	353-705	705-1410	1175-2350	1416-2820	2115-4230	2820-5640	4230-8476	5640-11280	7520-15040				
		3.15-0.63	319	387-774	774-1548	1290-2580	1548-3096	2322-4644	3096-6192	4644-9288	6192-12348	8256-16512				
		2.6-0.52	385	468-936	936-1872	1560-3120	1872-3744	2808-5616	3744-7488	5616-11232	7488-14976	9984-19968				
		2.1-0.42	473	576-1152	1152-2304	1920-3840	2304-4608	3456-6912	4608-9216	6912-13824	9216-18432					
		2-0.4	493	598-1197	1197-2394	1995-3990	2394-4788	3591-7182	4788-9576	7182-14364	9576-19152					
		1.7-0.34	595	723-1446	1446-2892	2410-4820	2892-5784	4338-8676	5784-11568	8676-17352						
		1.5-0.3	649	786-1572	1572-3144	2620-5240	3144-6288	4716-9432	6288-12576	9432-18864						
		1.4-0.28	731	890-1779	1779-3558	2965-5930	3558-7116	5337-10674	7116-14232							
		1.2-0.24	841	1023-2046	2046-4092	3405-6810	4092-8184	6129-12258	8184-16368							
		1-0.2	1003	1220-2439	2439-4878	4065-8130	4878-9756	7313-14634	9756-19512							
		0.8-0.16	1225	1654-3308	3308-6616	5512-11024	6616-13232	9922-19844								
		0.65-0.13	1505	2031-4062	4062-8124	6772-13544	8124-16248									
		0.55-0.11	1849	2496-4992	4992-9984	8320-16640										
		0.45-0.09	2065	2788-5575	5575-11150	9292-18584										
		0.35-0.07	3045	4110-8220	8220-16440											
		0.3-0.06	3481	4699-9398	9398-18797											
		0.2-0.04	5133	6929-13859	13859-27718											
With Worm Gear Reducer Type	MB-RV	133.3-26.6	7.5	9-17	18-35	30-58	36-70	55-105	73-140	110-210	147-280	196-374	276-526	369-702		
		100-20	10	12-23	24-46	40-77	48-92	73-138	97-184	146-277	195-369	260-492	366-693			
		66.6-13.3	15	17-31	34-63	58-106	69-127	104-190	139-254	208-381	278-568	372-678				
		50-10	20	22-42	46-84	75-140	90-168	136-252	181-336	272-504	363-672					
		40-8	25	27-49	54-99	90-165	108-198	162-297	216-396	324-594						
		33.3-6.6	30	30-52	60-104	100-174	120-208	180-313	240-417	360-626						
		25-5	40	38-64	76-129	127-216	153-259	229-388	306-518							
		20-4	50	43-72	86-144	144-240	173-288	260-432	346-576							
		16.6-3.3	60	48-82	96-165	161-276	193-331	289-496	386-662							
		12.5-2.5	80	58-108	117-216	196-360	235-432	352-648								
		10-2	100													

Example of installation method

Basic Type:

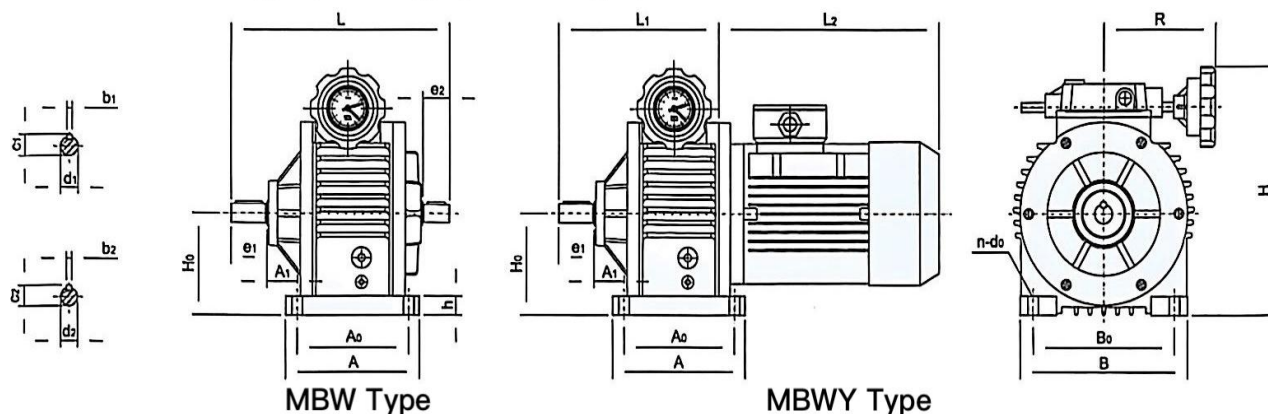


With 1-stage Gear Type:



Appearance and installation dimensions:

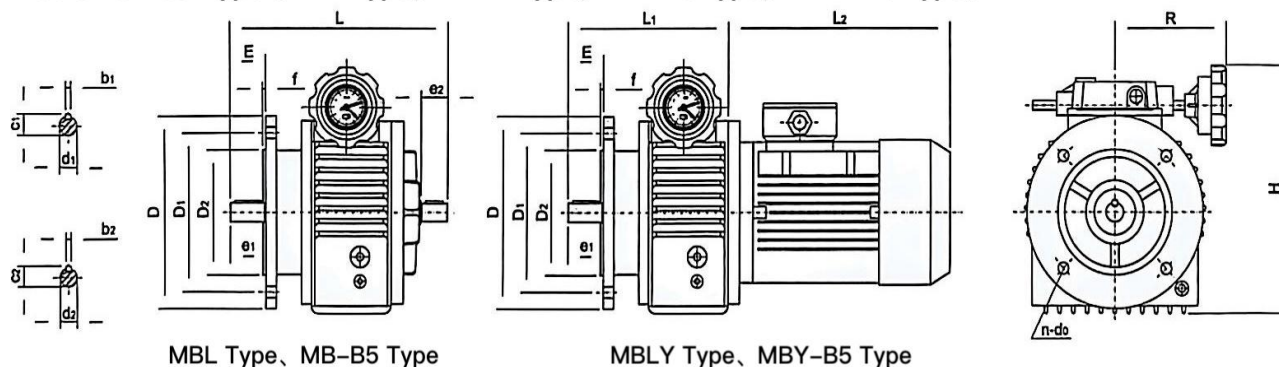
Basic horizontal type (MBW type, MBWY type)



Model	Center Height	Installation Dimensions						Output Shaft				Input Shaft				Overall Dimensions							
	H ₀	A ₁	A ₀	B ₀	h	n	d ₀	d ₁ s6	b ₁	c ₁	e ₁	d ₂ s6	b ₂	c ₂	e ₂	A	B	H	R	L	L ₁	L ₂	
02	75	18	105	110	13	4	9	14	5	16	30	14	5	16	25	125	146	205	105	197	131	See last page	
04	90	30	105	120	15	4	10	14	5	16	30	14	5	16	30	135	160	231	118	222	145		
07	106	35	125	160	18	4	12	20	6	22.5	40	19	6	21.5	30	150	190	259	126	245	181		
15	125	50	140	180	18	4	12	25	8	28	50	24	8	27	40	165	230	291	135	315	223		
22 40	150	25	230	245	25	4	14	30	8	33	60	24	8	27	50	270	300	356	166	387	268		
55 75	200	33	250	315	30	4	18	35	10	38	70	32	10	35	60	290	365	478	194	430	321		
150	224	50	350	350	34	4	20	50	14	53.5	110	40	12	43	82	415	480	603	265	592	456		

See last page

Basic vertical type (MBL type, MBLY type, MB-B5 type, MBY-B5 type)

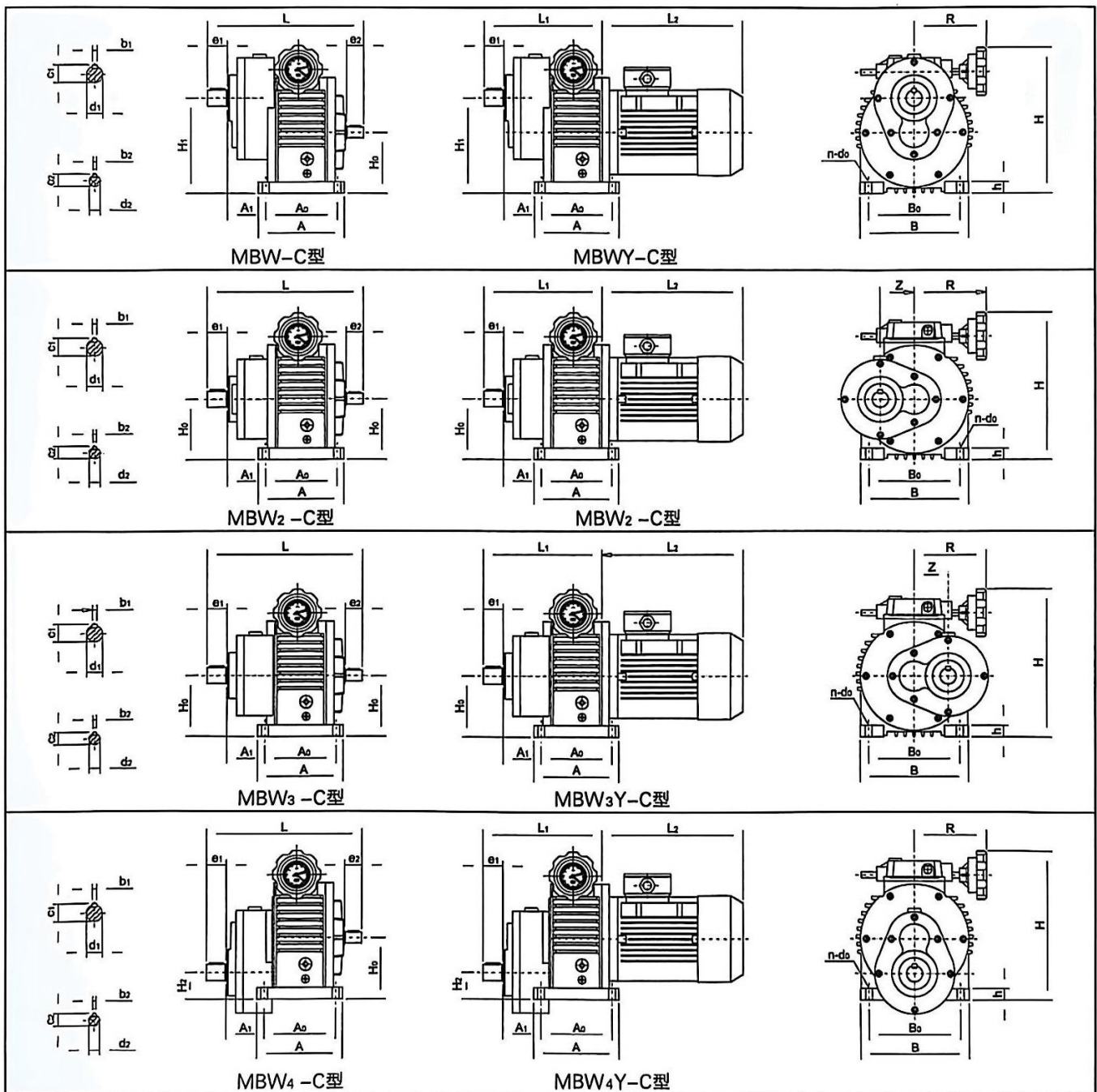


Model	Installation Dimensions						Output Shaft				Input Shaft				Overall Dimensions					
	D ₁	D ₂	E	f	n	d ₀	d ₁ s6	b ₁	c ₁	e ₁	d ₂ s6	b ₂	c ₂	e ₂	D	H	R	L	L ₁	L ₂
02	130(115)	110(95)	30(23)	3.5(3)	4	10(10)	14(11)	5(4)	16(12.5)	30(23)	14	5	16	25	160(140)	203	105	197(190)	131(124)	See last page
04	165(130)	130(110)	30(30)	3.5(3.5)	4	12(10)	14(14)	5(5)	16(16)	30(30)	14	5	16	30	200(160)	228	118	222(222)	145(145)	
07	165(165)	130(130)	40(40)	3.5(3.5)	4	12(12)	20(19)	6(6)	22.5(21.5)	40(40)	19	6	21.5	30	200(200)	258	126	245(245)	181(181)	
15	215(165)	180(130)	50(50)	4(3.5)	4	15(12)	25(24)	8(8)	28(27)	50(50)	24	8	27	40	250(200)	286	135	315(315)	223(223)	
22 40	265(215)	230(180)	60(60)	4(4)	4	15(15)	30(28)	8(8)	33(31)	60(60)	24	8	27	50	300(250)	351	166	387(387)	268(268)	
55 75	300(265)	250(230)	70(80)	5(4)	4	19(15)	35(38)	10(10)	38(41)	70(80)	32	10	35	60	350(300)	460	194	430(440)	321(331)	
150	400	350	110	5	4	19	50	14	53.5	110	40	12	43	82	450	603	265	592	456	

See last page

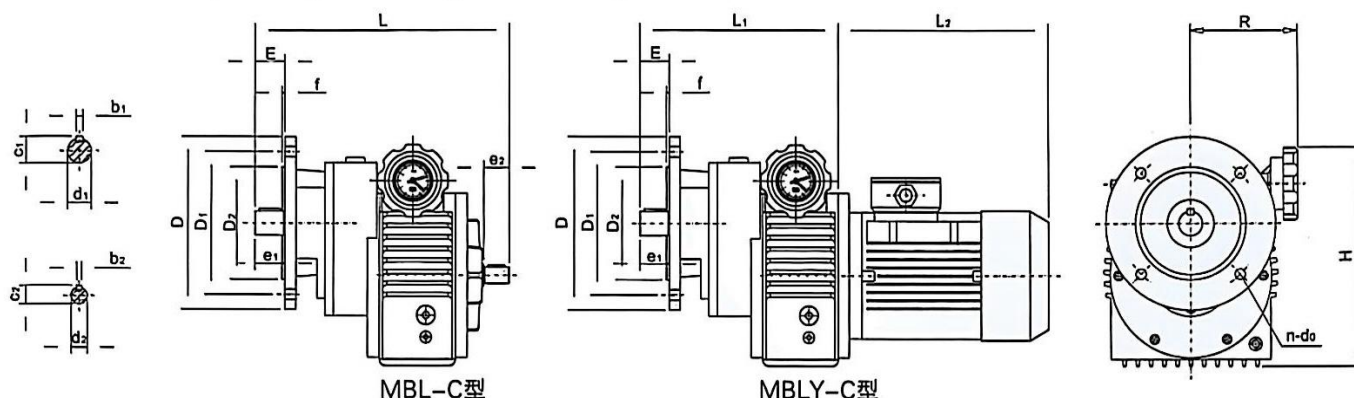
Note: The dimensions in parentheses are for the MB-B5 type, where MB-B5 indicates that its output end size is consistent with the four pole rated power motor size of the model, also known as the small flange type.

Horizontal with 1-stage Gear Type (MBW-C Type、MBWY-C Type)



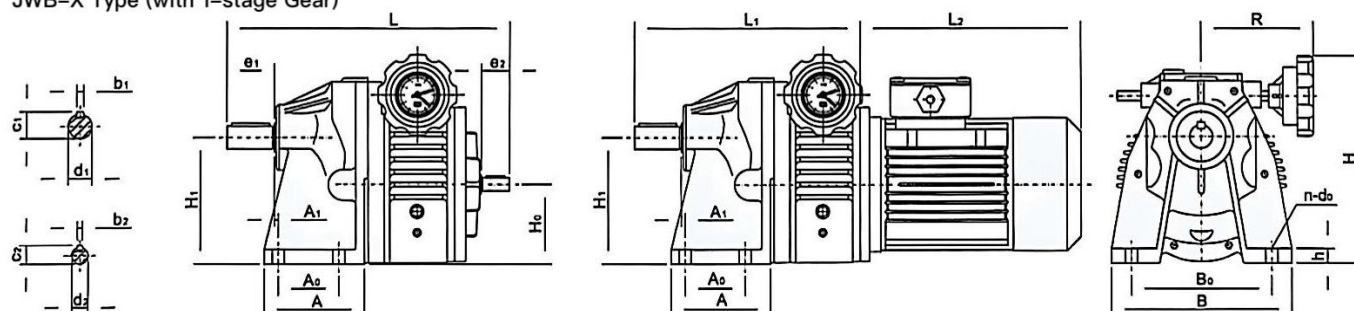
Model	center height			installation dimensions						output shaft				input shaft				Overall dimensions									
	H ₀	H ₁	H ₂	A ₁	A ₀	B ₀	h	n	d ₀	d _{1s6}	b ₁	c ₁	e ₁	d _{2s6}	b ₂	c ₂	e ₂	A	B	H	R	Z	L	L ₁	L ₂		
02	75	120	30	57	105	110	13	4	9	20	6	22.5	30	14	5	16	25	125	146	205	105	45	238	171	see last page		
04	90	135	45	59	105	120	15	4	10	20	6	22.5	30	14	5	16	30	135	160	231	118	45	252	176			
07	106	166	46	69	125	160	18	4	12	28	8	31	35	19	6	21.5	30	150	190	259	126	60	274	211			
15	125	190	60	78	140	180	18	4	12	30	8	33	45	24	8	27	40	165	230	291	135	65	337	246			
22 40	150	230	70	65	230	245	25	4	14	40	12	43	60	24	8	27	50	270	300	356	151	80	426	308			
55 75	200	320	80	159	250	315	30	4	18	50	14	53.5	82	32	10	35	60	290	365	478	194	120	567	459			
150	224	394	94	136	350	350	34	4	20	63	18	67	105	40	12	43	82	415	480	603	265	150	673	537			

Vertical with 1-stage Gear Type (MBL-C Type、MBLY-C Type)

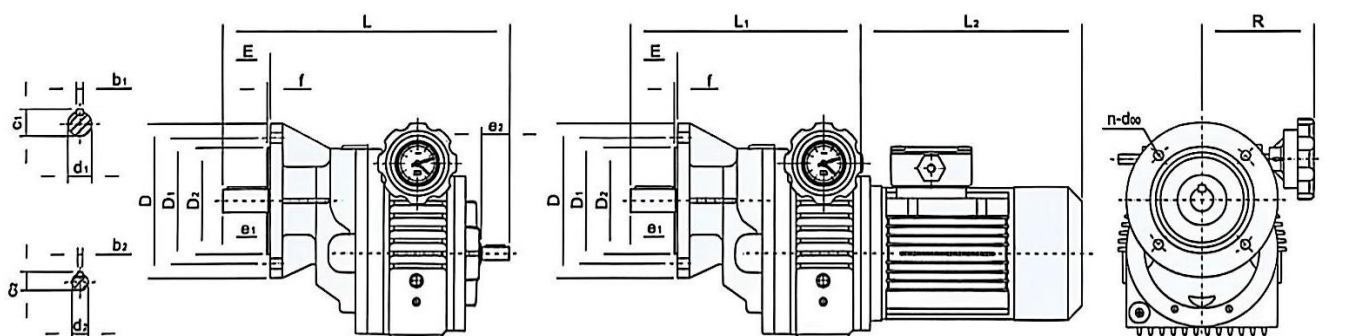


model	installation dimensions						output shaft				input shaft				Overall dimensions					
	D ₁	D ₂	E	f	n	d ₀	d _{1js6}	b ₁	c ₁	e ₁	d _{2js6}	b ₂	c ₂	e ₂	D	H	R	L	L ₁	L ₂
02	130	110	30	3.5	4	10	20	6	22.5	30	14	5	16	25	160	203	105	259	193	see last page
04	130	110	30	3.5	4	10	20	6	22.5	30	14	5	16	30	160	228	118	274	198	
07	165	130	35	3.5	4	12	28	8	31	35	19	6	21.5	30	200	258	126	300	237	
15	165	130	45	4	4	12	30	8	33	45	24	8	27	40	200	286	135	360	269	
22/40	215	180	60	4	4	15	40	12	43	60	24	8	27	50	250	351	166	457	339	
55/75	265	230	82	5	4	15	50	14	53.5	82	32	10	35	60	300	460	194	567	459	
150	400	350	105	5	8	17	63	18	67	105	40	12	43	82	450	603	265	757	621	

JWB-X Type (with 1-stage Gear)



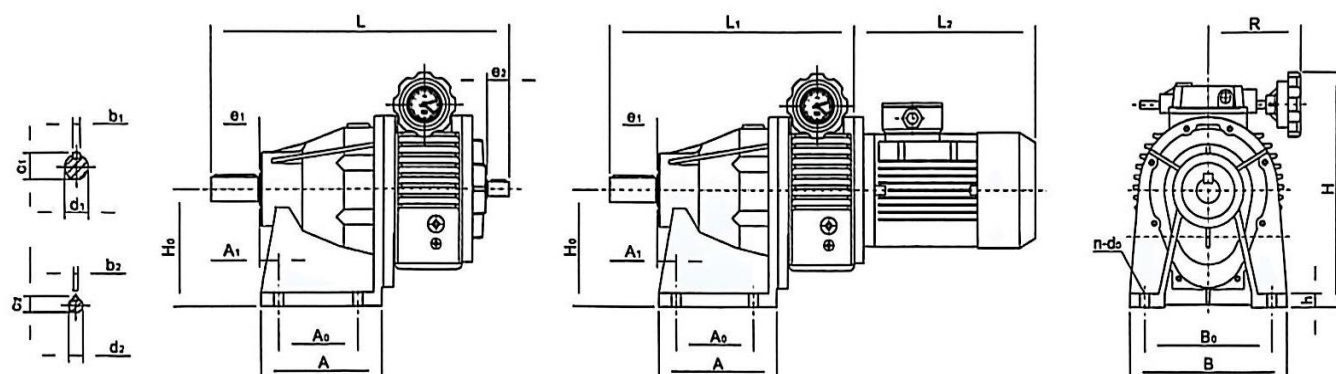
JWB-X-D型



JWB-X-F型

model	center height		installation dimensions											output shaft				input shaft				Overall dimensions							
	H ₀	H ₁	A ₁	A ₀	B ₀	h	n	d ₀	d ₀₀	D ₁	D ₂	E	f	d _{1js6}	b ₁	c ₁	e ₁	d _{2js6}	b ₂	c ₂	e ₂	A	B	D	H	R	L	L ₁	L ₂
0.37Kw	79	130	6	70	160	16	4	12	12	130	110	28	4	24	8	27	60	14	5	16	30	105	190	160	211	118	319	244	see last page
0.55Kw 0.75Kw	100	160	7	70	165	16	4	12	12	165	130	32	4	28	8	31	60	19	6	21.5	30	130	210	200	253	126	335	271	
1.1Kw 1.5Kw	130	195	0	85	196	17	4	14	15	215	180	70	5	38	10	41	70	24	8	27	40	155	240	250	296	135	416	324	

Horizontal with 2-stage Gear Type (MBW-2C Type、MBWY-2C Type)

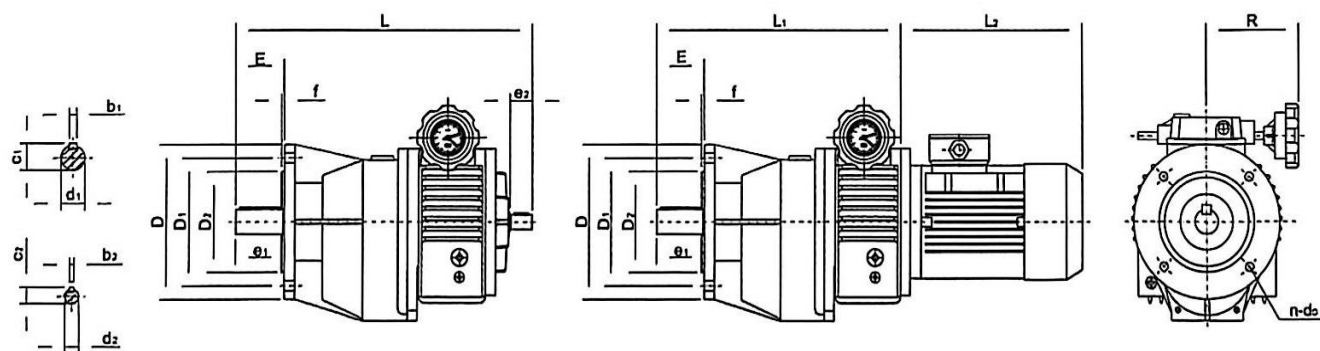


MBW-2C型

MBWY-2C型

model	center height	installation dimensions						output shaft				input shaft				Overall dimensions							
	H ₀	A ₁	A ₀	B ₀	h	n	d ₀	d _{1js6}	b ₁	c ₁	e ₁	d _{2js6}	b ₂	c ₂	e ₂	A	B	H	R	L	L ₁	L ₂	
02	110	22	85	150	13	4	10	28	8	31	55	14	5	16	25	143	190	240	105	346	280	see last page	
04	110	22	85	150	13	4	10	28	8	31	55	14	5	16	30	143	190	242	118	370	293		
07	152	25	106	174	16	4	13	32	10	35	65	19	6	21.5	30	162	215	305	126	401	337		
15	172	28	130	200	18	4	14	38	10	41	70	24	8	27	40	183	250	338	135	472	380		
22 40	235	43	180	250	22	4	18	55	16	59	110	24	8	27	50	266	320	442	166	676	558		
55 75	280	48	250	300	27	4	21	70	20	74.5	140	32	10	35	60	344	380	560	194	701	593		

Vertical with 2-stage Gear Type (MBL-2C Type、MBLY-2C Type)

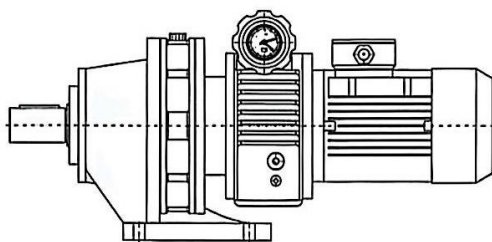


MBL-2C型

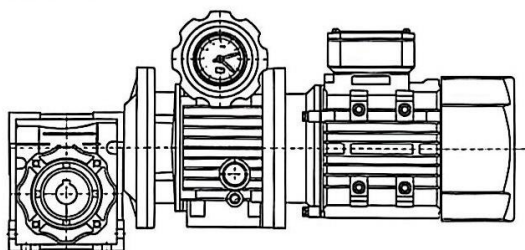
MBLY-2C型

model	installation dimensions						output shaft				input shaft				Overall dimensions				
	D ₁	D ₂	E	f	n	d ₀	d _{1js6}	b ₁	c ₁	e ₁	d _{2js6}	b ₂	c ₂	e ₂	D	R	L	L ₁	L ₂
02	130	110	65	4	4	11	28	8	31	55	14	5	16	25	160	105	346	280	see last page
04	130	110	65	4	4	11	28	8	31	55	14	5	16	30	160	118	370	293	
07	165	130	65	4	4	13	32	10	35	65	19	6	21.5	30	200	126	401	337	
15	215	180	70	5	4	15	38	10	41	70	24	8	27	40	250	135	472	380	
22 40	265	215	110	5	4	15	55	16	59	110	24	8	27	50	300	166	676	558	
55 75	300	250	140	5	4	18	70	20	74.5	140	32	10	35	60	350	194	701	593	

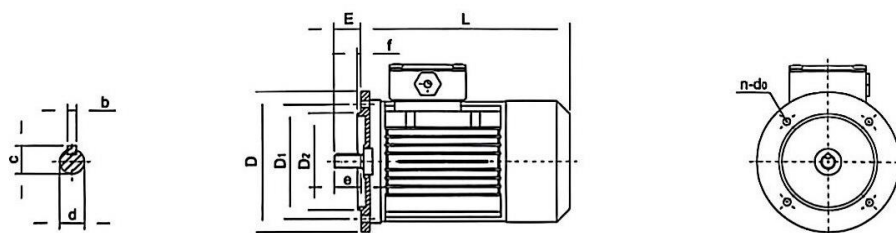
MB series continuously variable transmission combined with cycloidal pinwheel reducer



MB series continuously variable transmission combined with RV series worm reducer



B5 Motor Overall dimensions



motor power KW	frame size	installation dimensions						shaft size				Overall dimensions	
		D ₁	D ₂	E	f	n	d ₀	d	b	c	e	D	L
0.18kw	632-4	115	95	23	3.5	4	10	11	4	12.5	23	140	207
0.37kw	712-4	130	110	30	3.5	4	10	14	5	16	30	160	225
0.55kw	801-4	165	130	40	3.5	4	12	19	6	21.5	40	200	255
0.75kw	802-4	165	130	40	3.5	4	12	19	6	21.5	40	200	255
1.1kw	90S-4	165	130	50	3.5	4	12	24	8	27	50	200	270
1.5kw	90L-4	165	130	50	3.5	4	12	24	8	27	50	200	295
2.2kw	100L1-4	215	180	60	4	4	15	28	8	31	60	250	325
3kw	100L2-4	215	180	60	4	4	15	28	8	31	60	250	325
4kw	112M-4	215	180	60	4	4	15	28	8	31	60	250	345
5.5kw	132S-4	265	230	80	4	4	15	38	10	41	80	300	390
7.5kw	132M-4	265	230	80	4	4	15	38	10	41	80	300	430
11kw	160M-4	300	260	110	5	4	19	42	12	45	110	350	505
15kw	160L-4	300	260	110	5	4	19	42	12	45	110	350	560



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