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蜗杆减速机/升降机/联轴器 WORM REDUCER / SCREW JACK / COUPLINGS



HANGZHOU HL MACHINERY COMPANY



为您打造智能传动的整体解决方案。

To create the overall solution of intelligent transmission for you.

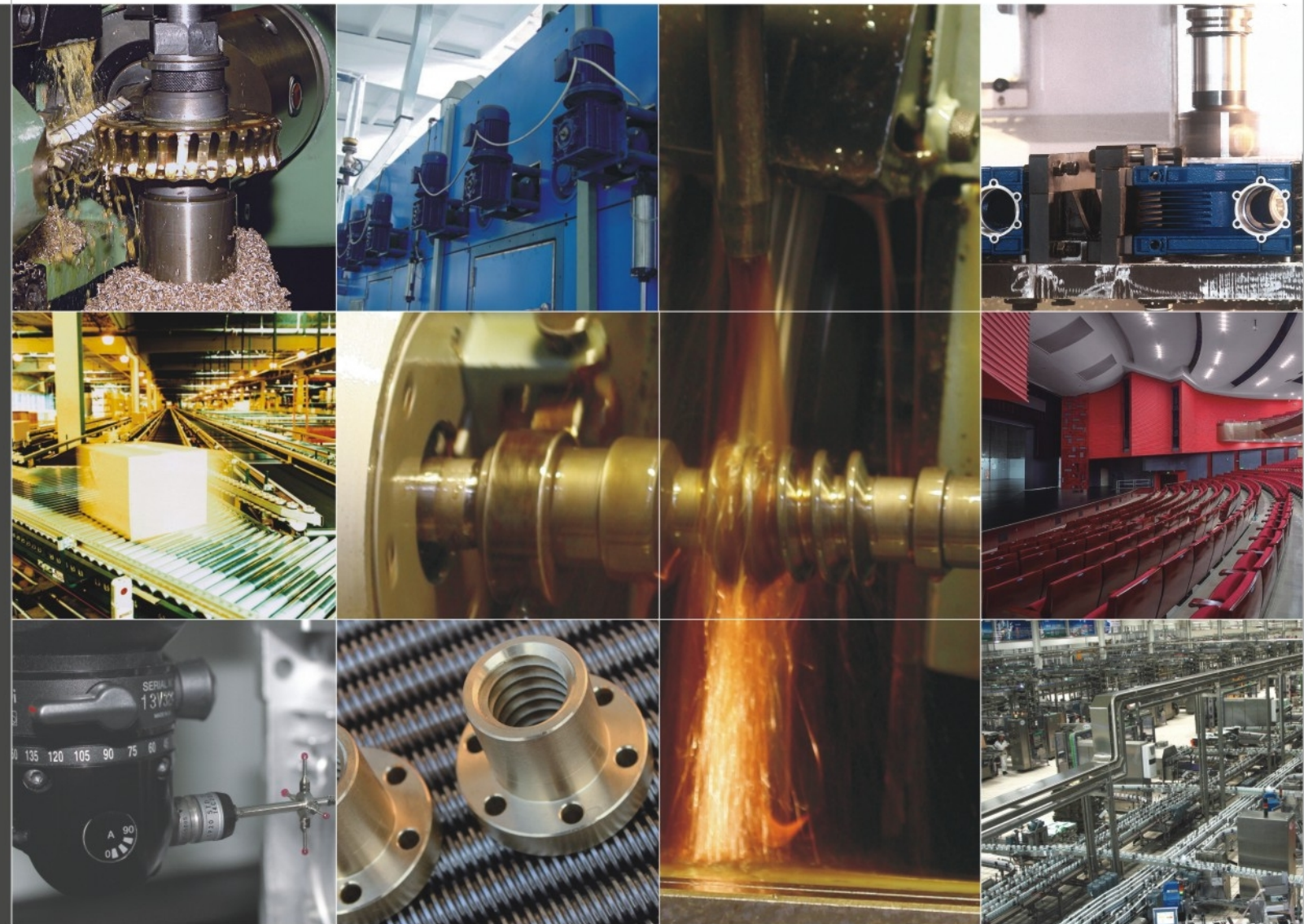
杭州虹力机械有限公司

专业从事传动产品选型开发、组织生产、销售服务于一体的科技型企业，整合全球的制造资源，互为战略合作伙伴，相互配套，共享产品和服务。通过高质量的产品以及先进技术的精心整合，为客户提供智能传动的整体解决方案，以满足工业生产、自动化、工程机械以及可再生能源领域的应用需求。

HANGZHOU HL MACHINERY COMPANY

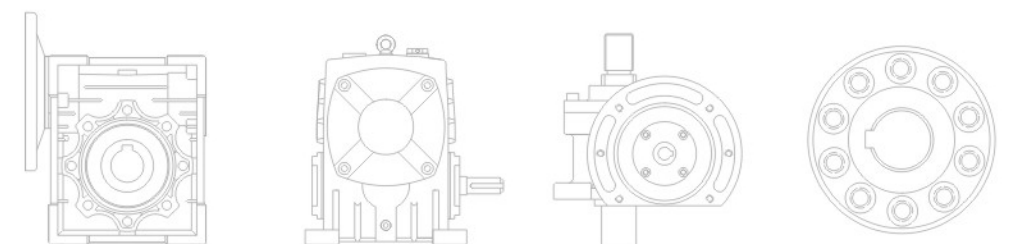
Specialized in transmission product development, production, sales and service in one of the science and technology enterprises, integration of global manufacturing resources, each other as strategic partners, supporting each other, sharing products and services.

Through the careful integration of high-quality products and advanced technology, we provide our customers with the whole solution of intelligent transmission to meet the needs of industrial production, automation, engineering machinery and renewable energy applications.



杭州虹力机械有限公司 - 合作/共享/服务

HANGZHOU HL MACHINERY COMPANY - Cooperation, sharing, service



NMRV系列蜗轮减速机 NMRV Worm Gear Speed Reducer

产品图片 Products pictures



产品概述 Product summary

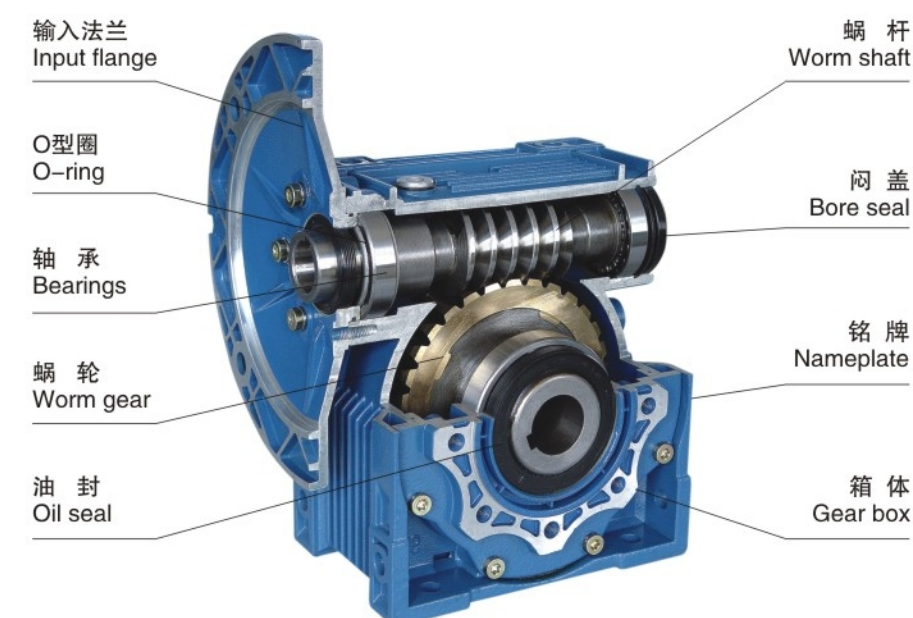
NMRV系列蜗轮减速机是在原有WP系列产品基础上，融合国际先进的技术，研制开发的新一代产品，采用先进的方箱结构，优质的铝合金高压压铸成形，具有体积小、重量轻、高强度、散热快、美观耐用。

减速机输出扭矩大、传动平稳噪音小，采用全封闭结构、密封性好、免维护、可适应全方位安装。

NMRV series worm gear reducer is a new generation of products combining the international advanced technology based on the original WP series products. It adopts advanced square box structure, high quality die-casted Aluminum alloy. It has small volume, light weight, high strength, heat dissipation, attractive and durable.

The reducer has big output torque, smooth transmission and low noise, it adopts all-closed structure, good sealing, free of maintenance, can adapt to comprehensive installation.

产品结构图 Product structural drawings



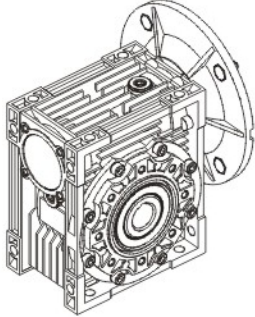
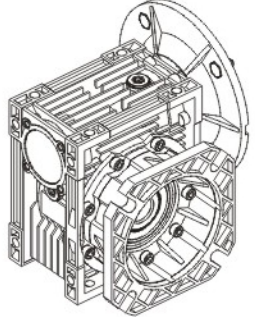
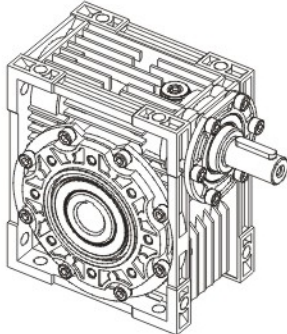
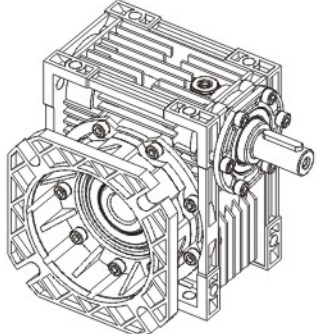
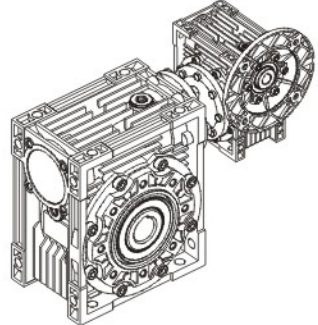
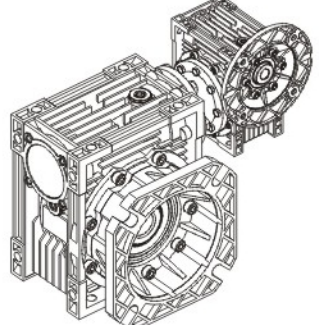
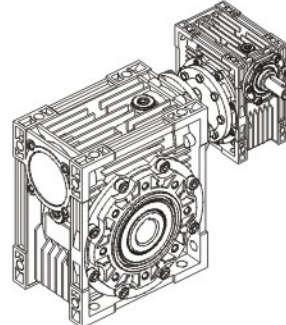
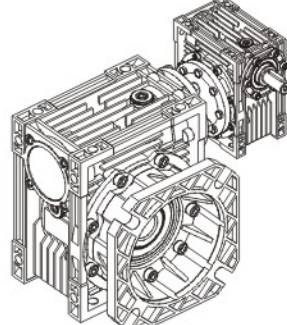
产品使用与安全保障 Use and safety guarantee

1. 使用前请确定蜗轮减速机与机械安全配套强度，在蜗轮减速机性能参数安全范围内。
 2. 蜗轮减速机出厂时已加注WA460润滑油，在开始运行400小时，应更换润滑油，以后换油周期约为4000小时。
 3. 蜗轮减速机箱体内应保留足够的润滑油，并定时检查油量。
 4. 安装时避免锋利器具碰伤输出轴油封造成减速机漏油。
 5. 与机械连接前请确认旋转方向，若旋转方向不正常有可能受伤或破坏装置。
 6. 在旋转部位请设置安全罩等，防止受伤。
 7. 搬动时若发生脱落或倾倒，很危险，请充分注意。
1. Please check and confirm the matching intensity between worm gear reducer and mechanical equipment before use to assure that it is in the safety range of worm gear reducer performance parameters.
 2. Worm gear reducer has filled with WA460 lubricating oil. Please replace the lubricating oil after the first starting of 400 hours and after then 4000 hours for lubricating oil replacing cycle.
 3. There should be enough lubrication in worm gear box and keep regular check with the oil level.
 4. When installation, please be careful to avoid sharp instruments bruising the oil seals on output shaft to cause leakage.
 5. Please confirm the rotation direction before mechanical connection. If the rotation direction is not correct, it will possible injury or damage the devices.
 6. Please set safety covers in rotating position to avoid of injuring.
 7. Please pay full attention: it is very dangerous if there is off or falling when moving.

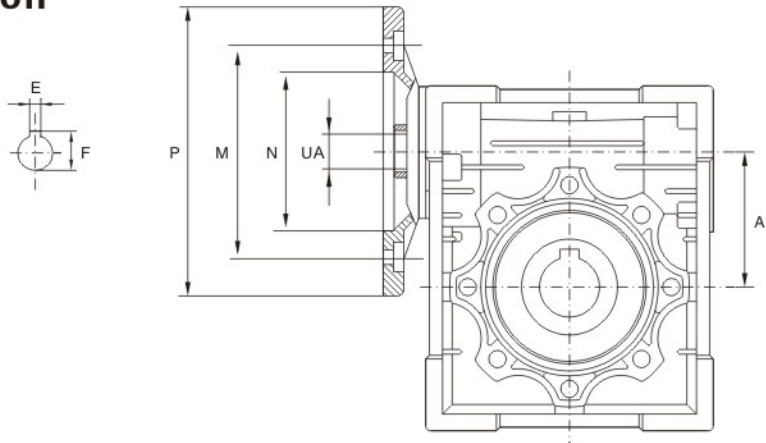
产品特点 Products characteristics

- 1、不占空间: 蜗轮减速机与电机组装时, 出力轴方向安装空间大, 中空型减速机轴心与电机可成直角状态, 占用空间小有利于机器小型化。
Occupied no space: The space requirement for the installation of output shaft is considerably large while assembling motor or reduce. The installation of hollow type reducer may form right Angle with motor, thus facilitate miniaturize of the machine.
- 2、具有自锁功能: 应用场合需微保持力, 可直接使用, 省却安装制动装置。
Self locking: For the place require for minor holding force, save the cost of baking device, such as in slope conveyor.
- 3、快速停止: 一般齿轮减速机, 停止时间约需要5-10秒, 但使用NRV系列产品只需要2-5秒就可达到静止状态。
Fast stop: The ordinary gear reducer available in market requires 5-10seconds stop time. but NRV series product need only 2-5 seconds to reach state of still.
- 4、搭配性高: 中空轴选装方便, 单方向出力型或双出力轴型, 轴心换装方便。
High accommodation: You may select from hollow shaft. uni-direction output shaft or dal output shaft, easy to modify, only one minute to complete the dissemble and assemble of shaft.
- 5、安全性高: 使用不同于传统的传动方式, 免链轮、皮带轮, 传动结构密封不外露, 可直接驱动。减少对作业人员的伤害。
High safety: Use transmission different from conventional method, no sprocket pulley is needed, no exposed transmission structure, Reduce the possibility of operator.
- 6、防护性佳: 防水、防尘, 减速机防护等级IP55构造, 对于粉尘及水气有良好的隔离功能。
Good protection: Water, dust proof, the protection class Ip55 possesses, good isolation to dust and moisture.
- 7、可多面安装无角度限制: 全系列产品, 每个平面, 都有固定孔, 你可以选择安装时所需的方向、角度安装。
Allow multiple sides installation, no restriction in angle: There are holes for mounting on all plains of the series of product for your selection of direction and angle required.
- 8、散热佳: 机壳采用铝合金重力压铸一体成型, 散热快, 蜗杆、蜗轮寿命延长, 而使用性能佳。(使用中外壳发热属正常状况)。
Good cooling effect: One formation aluminum alloy for casing, quigley heat dissipation extended life for worn lever, worn gear, good durability (wormca-sing during running is normal)
- 9、维修方便: 因为不同于传统的装置方式, 你勿需再拆装、链轮、链条, 只需拆装减速机的固定座既可轻松完成换装。
Easy maintenance: Different from conventional mounting method, you den't need the dissemble the sprocket, pulley but only dissemble and
Assemble the mounting base of the reducer to compete the modification easily.
- 10、无厂牌限制: 可配套的普通电机系列、或I (RK) 15W-200W电机, 可轻易装配无需另外加工。
No restriction on brand: Match with 15W-200W paese or domestic product available in market without further processing.
- 11、宽广的减速比: 由于采用分离型装配, 可轻易的变换减速比, 从30-20000。
Wide reduction ratio: Easily change the reduction ration from 30-20000 due to detached assemble.
- 12、相配马达可以附刹车器, 与蜗轮减速箱一体成形美观实用。
May complete with brake, clutch in one formation aesthetic and practice.

蜗轮减速机型号 Versions

	NMRV 025-150	NMRV 025-150 F	
	NRV 025-150	NRV 025-150 F	
	NMRV-NMRV 025-150	NMRV-NMRV 025-150 F	
	NRV-NMRV 025-150	NRV-NMRV 025-150 F	

电机直联尺寸 Predisposition



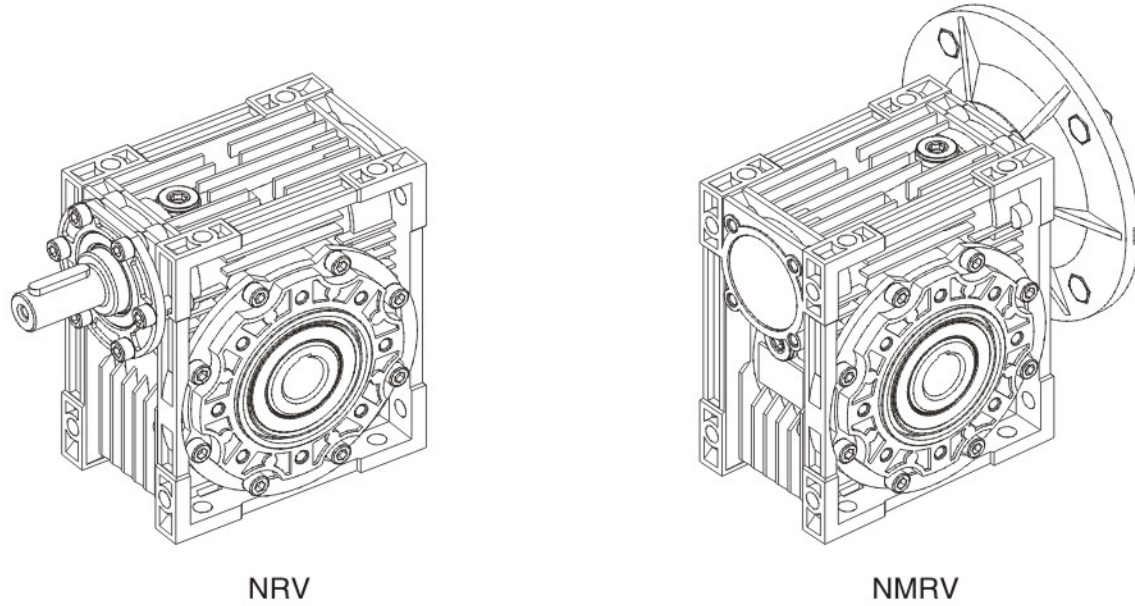
中心距 Center Distance A	电机法兰 Motor Flange						输入轴孔直径UA The Hole Diameter of Shaft											
	PAM IEC	N	M	P	E	F	传动比 i Transmission Ratio											
							7.5	10	15	20	25	30	40	50	60	80	100	
NMRV025	56B14	50	65	80	3	10.4	9	9	9	9	-	9	9	9	9	-	-	
NMRV030	63B5	95	115	140	4	12.8	11	11	11	11	11	11	11	11	-	-	-	
	63B14	60	75	90			11	11	11	11	11	11	11	11	-	-	-	
	56B5	80	100	120	3	10.4	9	9	9	9	9	9	9	9	9	9	-	
NMRV040	56B14	50	65	80	5	16.3	14	14	14	14	14	14	14	-	-	-	-	
	71B5	110	130	160			14	14	14	14	14	14	14	-	-	-	-	
	71B14	70	85	105	4	12.8	11	11	11	11	11	11	11	11	11	11	11	
	63B5	95	115	140			11	11	11	11	11	11	11	11	11	11	11	
	63B14	60	75	90			11	11	11	11	11	11	11	11	11	11	11	
NMRV050	56B5	80	100	120	3	10.4	-	-	-	-	-	-	-	9	9	9	9	
	80B5	130	165	200	6	21.8	19	19	19	19	19	19	-	-	-	-	-	
	80B14	80	100	120			19	19	19	19	19	19	-	-	-	-	-	
	71B5	110	130	160	5	16.3	14	14	14	14	14	14	14	14	14	14	-	
	71B14	70	85	105			14	14	14	14	14	14	14	14	14	14	-	
NMRV063	63B5	95	115	140	4	12.8	-	-	-	-	-	-	11	11	11	11	11	
	90B5	130	165	200	8	27.3	24	24	24	24	24	24	-	-	-	-	-	
	90B14	95	115	140			24	24	24	24	24	24	-	-	-	-	-	
	80B5	130	165	200	6	21.8	19	19	19	19	19	19	19	19	19	19	-	
	80B14	80	100	120			19	19	19	19	19	19	19	19	19	19	-	
NMRV075	71B5	110	130	160	5	16.3	-	-	-	-	-	-	14	14	14	14	14	
	71B14	70	85	105			-	-	-	-	-	-	14	14	14	14	14	
	100/112B5	180	215	250	8	31.3	28	28	28	-	-	-	-	-	-	-	-	
	100/112B14	110	130	160			28	28	28	-	-	-	-	-	-	-	-	
	90B5	130	165	200	8	27.3	24	24	24	24	24	24	-	-	-	-	-	
NMRV090	90B14	95	115	140			24	24	24	24	24	24	24	24	24	24	-	
	80B5	130	165	200	6	21.8	-	-	-	-	-	-	19	19	19	19	19	
	80B14	80	100	120			-	-	-	-	-	-	19	19	19	19	19	
	132B5	230	265	300	10	41.1	38	38	38	38	-	-	-	-	-	-	-	
	100/112B5	180	215	250			38	38	38	38	38	38	38	38	38	38	-	
NMRV110	90B5	130	165	200	8	27.3	-	-	-	-	24	24	24	24	24	24	24	
	132B5	230	265	300	10	41.1	38	38	38	38	38	38	38	38	38	38	38	
NMRV130	100/112B5	180	215	250	8	31.3	-	-	-	-	28	28	28	28	28	28	28	
	160B5	250	300	350	12	45.3	42	42	42	42	-	-	-	-	-	-	-	
NMRV150	132B5	230	265	300	10	41.3	-	-	-	38	38	38	38	38	38	38	38	
	100/112B5	180	215	250	8	31.3	-	-	-	-	-	-	-	-	28	28	28	

啮合参数表 Mesh data

蜗杆螺旋线、蜗轮齿牙和效率 Worm thread, worm wheel tooth and efficiency data

NRV	i	5	7.5	10	15	20	25	30	40	50	60	80	100
025	Z1 蜗杆头数	6	4	3	2	2		1	1	1	1		
	γ 螺旋角度	35°02'	25°03'	19°19'	13°09'	10°41'		6°40'	5°23'	4°31'	3°53'		
	Mx 模数	1.3	1.3	1.3	1.3	0.995		1.3	0.995	0.8	0.67		
	η d(1400)	0.87	0.85	0.83	0.79	0.75		0.67	0.62	0.58	0.55		
	η s	0.72	0.71	0.68	0.61	0.56		0.46	0.41	0.36	0.34		
030	Z1 蜗杆头数	6	4	3	2	2	1	1	1	1	1	1	
	γ 螺旋角度	27°04'	18°49'	14°20'	9°40'	7°42'	5°35'	4°52'	3°52'	3°12'	2°45'	2°07'	
	Mx 模数	1.44	1.44	1.44	1.44	1.09	1.7	1.44	1.09	0.89	0.74	0.56	
	η d(1400)	0.87	0.85	0.82	0.77	0.73	0.68	0.65	0.59	0.55	0.51	0.44	
	η s	0.72	0.67	0.63	0.55	0.5	0.43	0.39	0.35	0.31	0.27	0.23	
040	Z1 蜗杆头数	6	4	3	2	2	2	1	1	1	1	1	1
	γ 螺旋角度	34°19'	24°28'	18°51'	12°49'	10°23'	8°43'	6°29'	5°14'	4°23'	3°47'	2°57'	2°25'
	Mx 模数	2.06	2.06	2.06	2.06	1.57	1.27	2.06	1.57	1.27	1.06	0.81	0.65
	η d(1400)	0.89	0.87	0.85	0.82	0.78	0.75	0.7	0.65	0.62	0.58	0.52	0.47
	η s	0.74	0.71	0.67	0.6	0.55	0.51	0.45	0.4	0.36	0.32	0.28	0.24
050	Z1 蜗杆头数	6	4	3	2	2	2	1	1	1	1	1	1
	γ 螺旋角度	33°37'	23°54'	18°23'	12°30'	10°06'	8°29'	6°19'	5°06'	4°16'	3°40'	2°52'	2°21'
	Mx 模数	2.56	2.56	2.56	2.56	1.95	1.58	2.56	1.95	1.58	1.32	1	0.8
	η d(1400)	0.89	0.88	0.86	0.82	0.79	0.76	0.72	0.67	0.63	0.59	0.53	0.49
	η s	0.74	0.7	0.66	0.59	0.55	0.51	0.44	0.39	0.35	0.32	0.27	0.23
063	Z1 蜗杆头数		4	3	2	2	2	1	1	1	1	1	1
	γ 螺旋角度		24°31'	18°53'	12°51'	10°25'	8°45'	6°30'	5°15'	4°24'	3°47'	2°58'	2°26'
	Mx 模数		3.25	3.25	3.25	2.48	2	3.25	2.48	2	1.68	1.27	1.02
	η d(1400)		0.88	0.87	0.83	0.81	0.78	0.74	0.7	0.66	0.62	0.57	0.51
	η s		0.71	0.67	0.6	0.55	0.51	0.45	0.4	0.36	0.33	0.28	0.24
075	Z1 蜗杆头数		4	3	2	2	2	1	1	1	1	1	1
	γ 螺旋角度		26°17'	20°20'	13°52'	11°18'	9°32'	7°02'	5°42'	4°48'	4°08'	3°14'	2°40'
	Mx 模数		3.94	3.94	3.94	3	2.42	3.94	3	2.42	2.03	1.54	1.24
	η d(1400)		0.89	0.88	0.85	0.82	0.80	0.76	0.72	0.69	0.65	0.60	0.55
	η s		0.71	0.68	0.61	0.57	0.53	0.46	0.42	0.38	0.35	0.29	0.26
090	Z1 蜗杆头数		4	3	2	2	2	1	1	1	1	1	1
	γ 螺旋角度		29°11'	22°44'	15°36'	12°50'	9°32'	7°02'	5°42'	4°48'	4°08'	3°14'	2°40'
	Mx 模数		4.48	4.48	4.48	3.69	2.98	4.84	3.69	2.98	2.5	1.89	1.52
	η d(1400)		0.9	0.89	0.86	0.84	0.82	0.78	0.75	0.72	0.69	0.63	0.59
	η s		0.73	0.7	0.64	0.6	0.56	0.49	0.45	0.41	0.38	0.32	0.28
105	Z1 蜗杆头数		4	3	2	2	2	1	1	1	1	1	1
	γ 螺旋角度		29°11'	22°44'	15°36'	12°50'	9°32'	7°02'	5°42'	4°48'	4°08'	3°14'	2°40'
	Mx 模数		5.875	5.875	5.875	4.62	3.73	5.875	4.62	3.73	3.13	2.37	1.91
	η d(1400)		0.9	0.89	0.86	0.85	0.84	0.79	0.78	0.75	0.72	0.67	0.63
	η s		0.72	0.69	0.63	0.62	0.59	0.48	0.48	0.44	0.41	0.36	0.32
110	Z1 蜗杆头数		4	3	2	2	2	1	1	1	1	1	1
	γ 螺旋角度		28°15'	21°57'	15°02'	14°41'	12°34'	7°39'	7°28'	6°22'	5°32'	4°24'	3°39'
	Mx 模数		5.875	5.875	5.875	4.62	3.73	5.875	4.62	3.73	3.13	2.37	1.91
	η d(1400)		0.9	0.89	0.86	0.85	0.84	0.79	0.78	0.75	0.72	0.67	0.63
	η s		0.72	0.69	0.63	0.62	0.59	0.48	0.48	0.44	0.41	0.36	0.32
130	Z1 蜗杆头数		4	3	2	2	2	1	1	1	1	1	1
	γ 螺旋角度		28°41'	22°19'	15°18'	13°52'	11°49'	7°47'	7°02'	5°58'	5°11'	4°07'	3°24'
	Mx 模数		6.97	6.97	6.97	5.4	4.37	6.97	5.4	4.37	3.67	2.77	2.23
	η d(1400)		0.91	0.89	0.87	0.86	0.84	0.8	0.78	0.75	0.72	0.68	0.64
	η s		0.72	0.69	0.63	0.61	0.58	0.49	0.46	0.43	0.39	0.34	0.3
150	Z1 蜗杆头数		6	4	3	2	2	2	1	1	1	1	1
	γ 螺旋角度		32°09'	24°35'	17°27'	12°53'	11°19'	9°50'	6°32'	5°43'	4°57'	3°55'	3°14'
	Mx 模数		5.5	6.155	5.5	6.155	5	4.193	6.155	5	4.193	3.17	2.55
	η d(1400)		0.91	0.9	0.88	0.86	0.84	0.83	0.78	0.76	0.73	0.68	0.64
	η s		0.73	0.71	0.66	0.6	0.57	0.54	0.45	0.42	0.39	0.33	0.29

NRV/NMRV

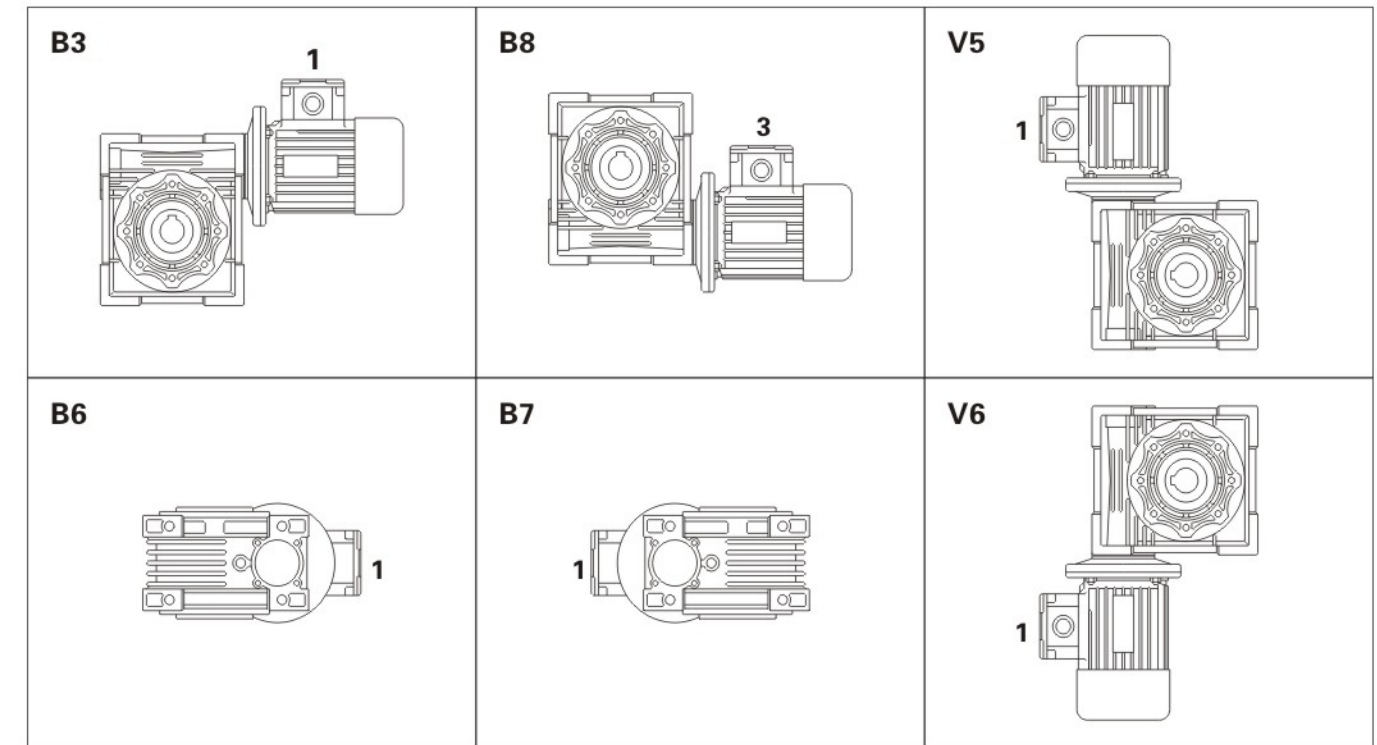


NMRV型号标记 Model & Marker

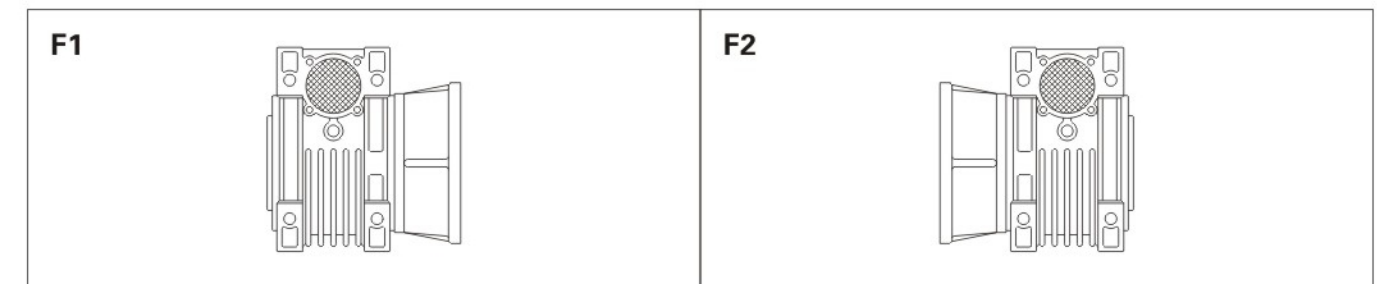
NMRV-075-60-VS-F1(FA)-AS-80B5-0.55kW-B3			
NMRV	蜗轮减速机 Worm geared motor		
NRV	蜗轮减速机 (配接输入轴) Worm reduction unit		
075	蜗轮减速机中心距 Center distance		
60	减速比 Reduction ratio		
VS	双向输入轴 Double input shaft	F1(FA)	输出法兰位置及型号 Output flange
AS	单向输出轴 Single output shaft	AB	双向输出轴 Double output shaft
PAM	电机联接 Fitted for motor coupling	80B5	电机机座号和安装结构形式 Motor mounting facility
0.55kW	电机功率 Electric motor power	B3	安装方位 Mounting position

注: 1、用户需要带电机时, 请注明“带电机”字样, 并注明所带电机的基本参数。
2、附件为按用户需求随减速机附带之零件, 未直接装配在减速机上, 用户可根据实际需要自行装配。
Note: 1.If you need motor, please note "with motor" and the model, power & poles of the motor.
2.Accessories are unassembled. You may assemble them according to your need.

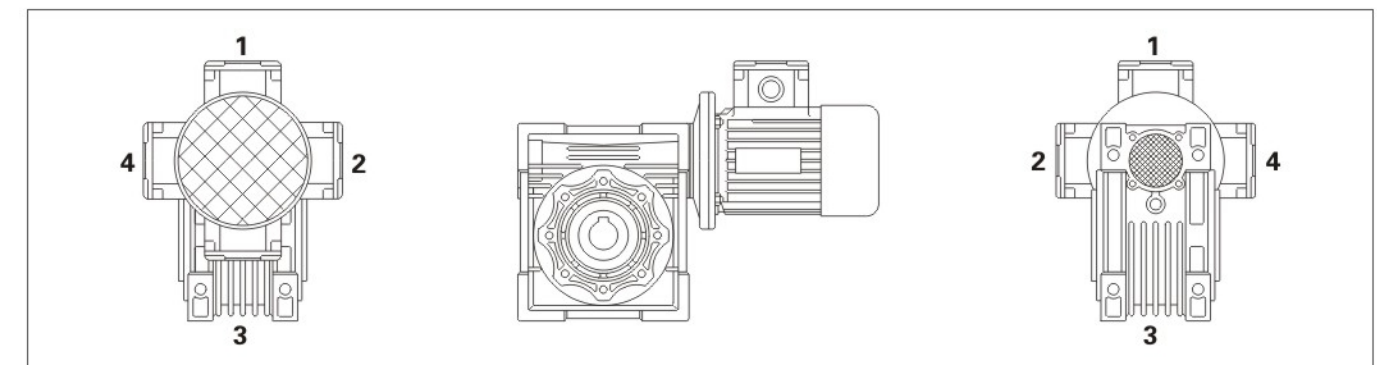
安装方位 Mounting Positions



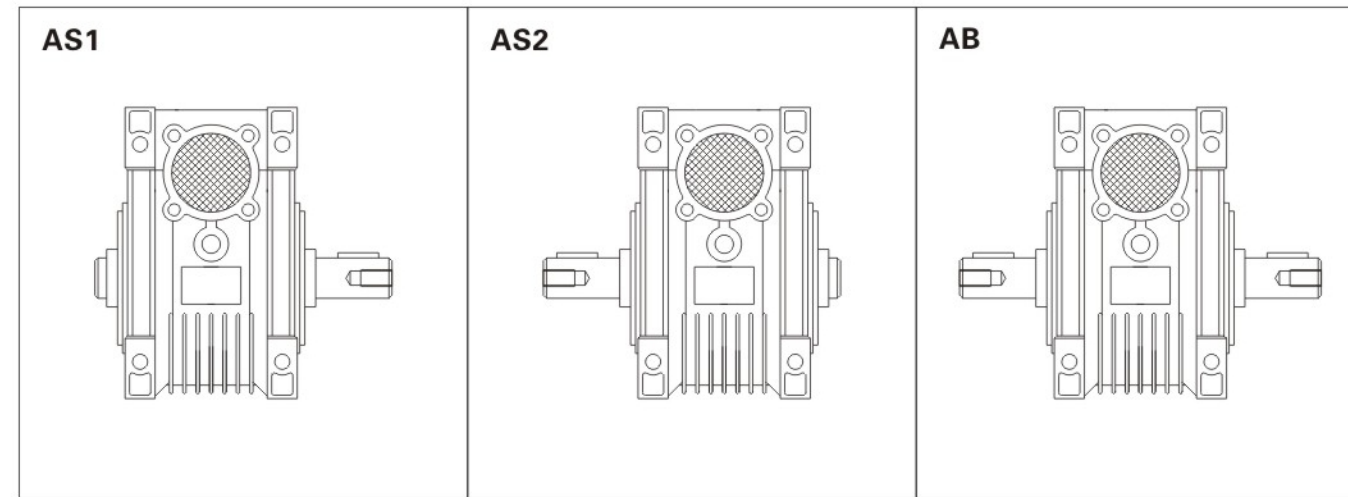
法兰位置 Flange F-FL



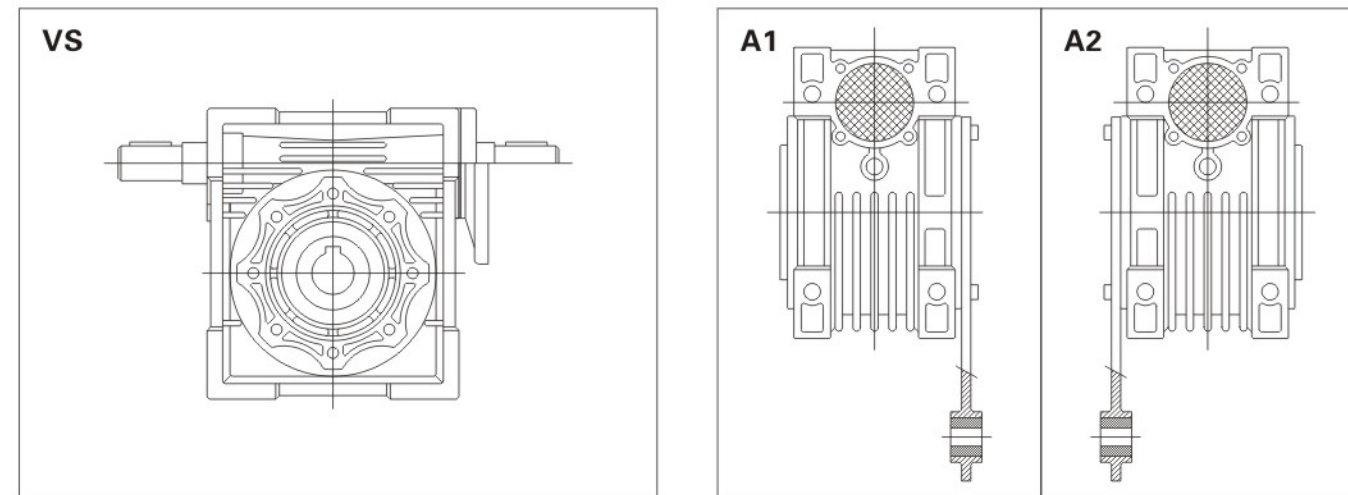
接线盒安装方式 Position of terminal box



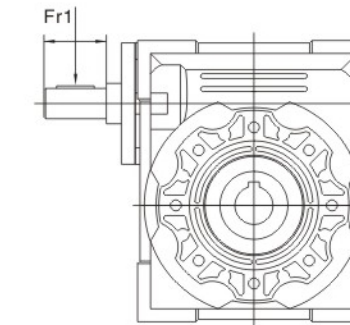
输出轴配置 Position of output shaft



双向输入轴 Double extension worm shaft 扭力臂配置 Position of torque arm



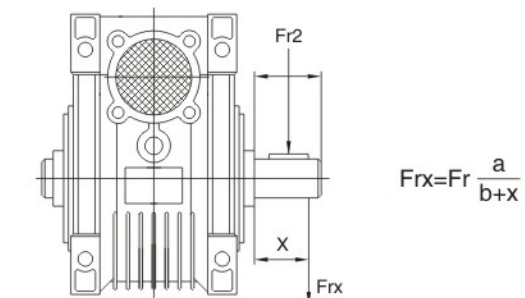
输入轴许用径向载荷 Applied mid-way along the input shaft



(N)

n1	NRV030	NRV040	NRV050	NRV063	NRV075	NRV090	NRV110	NRV130	NRV150
1400	150	250	350	500	700	900	1200	1500	1950
900	175	290	400	580	810	1040	1390	1740	2262
500	210	350	490	700	980	1270	1700	2100	2730

输出轴许用径向载荷 Applied mid-way along the output shaft



(N)

n2	NRV025	NRV030	NRV040	NRV050	NRV063	NRV075	NRV090	NRV110	NRV130	NRV150
400	390	530	1020	1400	1830	2160	2390	3020	3950	5532
250	460	620	1200	1650	2150	2520	2800	3530	4610	6456
150	550	740	1420	1960	2540	2990	3310	4180	5470	7660
100	630	850	1620	2250	2910	3430	3800	4790	6260	8767
60	740	1000	1920	2660	3450	4060	4500	5680	7420	10391
40	850	1150	2200	3050	3950	4650	5150	6500	8500	11903
25	990	1350	2570	3570	4620	5440	6020	7600	9940	13920
10	1350	1830	3490	4840	6270	7380	8180	10320	13500	16500

a	50	65	84	101	120	131	162	191	203	218
b	38	50	64	76	95	101	122	151	163	176

- 表中的数值为作用于出力轴中点的许可加载力。
- 当减速机为双出轴时，折算到轴端的径向合力不能超过表中规定的数值。
- 当径向力和轴向力同时施加时，最大许可的轴向推力为径向力的1/5。
- Above table is the allowed loading force on the midpoint of output shaft.
- When the reducer is with double output shafts, the resultant radial power at the edge of shaft should not exceed the values specified as in above table.
- The max allowed axial thrust is 1/5 of radial force while the radial force and axial force effected together.

NMRV选型参数 Parameter selections

NMRV单级减速机(法兰输入，输入转速1400r/min)/(配4极电机)
NMRV Single step reducer (flange input, input speed is 1400r/min)/(matched with 4 poles motor)

机型号 Model	输出转速 N ₂ (r/min)	输出转矩 M ₂ (N.m)	传动比 i	输出轴 径向力 kN	使用系数 f.s.
0.06kw					
NMRV025	186.7	2.6	7.5	0.50	4.2
	140	3.4	10	0.55	3.5
	93.3	4.9	15	0.63	2.5
	70	6.1	20	0.69	2.0
	46.7	8.2	30	0.79	1.6
	35	10	40	0.87	1.3
	28	12	50	0.94	0.9
	23.3	14	60	1.00	0.7
NMRV030	186.7	2.6	7.5	0.68	6.9
	140	3.4	10	0.75	5.4
	93.3	4.7	15	0.86	3.8
	70	6	20	0.94	3.0
	56	7	25	1.02	3.0
	46.7	8	30	1.08	2.5
	35	9.7	40	1.19	1.9
	28	11	50	1.28	1.5
NMRV030	23.3	13	60	1.36	1.3
	17.5	14	80	1.50	0.9
0.09kw					
NMRV025	186.7	3.9	7.5	0.50	2.8
	140	5.1	10	0.55	2.4
	93.3	7.3	15	0.63	1.6
	70	9.2	20	0.69	1.3
	46.7	12	30	0.79	1.1
NMRV030	35	15	40	0.87	0.9
	186.7	3.9	7.5	0.68	4.6
	140	5	10	0.75	3.6
	93.3	7.1	15	0.86	2.5
	70	9	20	0.94	2.0
NMRV030	56	10	25	1.02	2.0
	46.7	12	30	1.08	1.7
	35	14	40	1.19	1.2
	28	17	50	1.28	1.0
	23.3	19	60	1.36	0.9
NMRV040	28	19	50	2.47	2.0
	23.3	21	60	2.63	1.7
	17.5	26	80	2.89	1.3
	14	29	100	3.11	1.0
0.12kw					
NMRV030	186.7	5.2	7.5	0.68	3.4
	140	6.7	10	0.75	2.7
	93.3	9.5	15	0.6	1.9
	70	12	20	0.94	1.5
	56	14	25	1.02	1.5
	46.7	16	30	1.08	1.3
	35	19	40	1.19	0.9
	28	23	50	1.28	0.8
NMRV040	46.7	17.2	30	2.08	2.6
	35	21	40	2.29	1.9

机型号 Model	输出转速 N ₂ (r/min)	输出转矩 M ₂ (N.m)	传动比 i	输出轴 径向力 kN	使用系数 f.s.
0.12kw					
NMRV040	28	25	50	2.47	1.5
	23.3	28	60	2.63	1.3
	17.5	34	80	2.89	1.0
	14	38	100	3.11	0.8
	23.3	29	60	3.61	2.3
NMRV050	17.5	35	80	3.97	1.9
	14	40	100	4.28	1.4
0.18kw					
NMRV030	186.7	7.8	7.5	0.68	2.3
	140	10	10	0.75	1.8
	93.3	14	15	0.86	1.3
	70	18	20	0.94	1.0
	56	21	25	1.02	1.0
	46.7	24	30	1.08	0.8
NMRV040	70	19	20	1.82	2.0
	56	23	25	1.96	1.7
	46.7	26	30	2.08	1.7
	35	32	40	2.29	1.3
	28	38	50	2.47	1.0
	23.3	43	60	2.63	0.8
NMRV050	35	32	40	3.15	2.3
	28	39	50	3.39	1.9
	23.3	43	60	3.61	1.6
	17.5	52	80	3.97	1.2
	14	60	100	4.28	0.9
0.25kw					
NMRV040	186.7	11	7.5	1.31	3.6
	140	14	10	1.44	2.8
	93.3	21	15	1.65	1.9
	70	27	20	1.82	1.5
	56	32	25	1.96	1.2
	46.7	36	30	2.08	1.3
	35	44	40	2.29	0.9
	28	37	50	2.47	0.8
NMRV050	70	26	20	2.50	2.7
	56	32	25	2.69	2.2
NMRV063	46.7	37	30	2.86	2.3
	35	46	40	3.15	1.7
	28	54	50	3.39	1.4
	23.3	60	60	3.61	1.1
	17.5	72	80	3.97	0.9
	28	56	50	4.44	2.4
	23.3	63	60	4.71	2.0
	17.5	78	80	5.19	1.6
NMRV063	14	87	100	5.59	1.4
0.37kw					
NMRV040	186.7	16	7.5	1.31	2.4
	140	21	10	1.44	1.9
	93.3	31	15	1.65	1.3

机型号 Model	输出转速 N ₂ (r/min)	输出转矩 M ₂ (N.m)	传动比 i	输出轴 径向力 kN	使用系数 f.s.
0.37kw					
NMRV040	70	39	20	1.82	1.0
	56	47	25	1.96	0.8
	46.7	53	30	2.08	0.8
NMRV050	140	21	10	1.98	3.3
	93.3	31	15	2.27	2.4
	70	40	20	2.5	1.8
	56	48	25	2.69	1.5
	46.7	55	30	2.86	1.5
	35	68	40	3.15	1.1
	28	80	50	3.39	0.9
	23.3	89	60	3.61	0.8
NMRV063	35	70	40	4.12	2.1
	28	83	50	4.44	1.6
	23.3	94	60	4.71	1.4
	17.5	115	80	5.19	1.1
NMRV063	14	129	100	5.59	0.9
0.55kw					
NMRV050	186.7	25	7.5	1.8	2.9
	140	32	10	1.98	2.2
	93.3	46	15	2.27	1.6
	70	59	20	2.5	1.2
	56	71	25	2.69	1.0
	46.7	81	30	2.86	1.0
	35	80	40	3.13	0.9
NMRV063	70	60	20	3.27	2.2
	56	73	25	3.52	1.8
	46.7	83	30	3.74	1.9
	35	105	40	4.12	1.4
	28	124	50	4.44	1.1
NMRV075	23.3	140	60	4.71	0.9
	35	108	40	4.86	2.0
	28	129	50	5.24	1.6
	23.3	146	60	5.56	1.4
	17.5	180	80	6.13	1.1
NMRV090	14	206	100	6.60	0.9
	17.5	189	80	6.78	1.5
	14	221	100	7.30	1.2
0.75kw					
NMRV050	186.7	34	7.5	1.80	2.1
	140	44	10	1.98	1.6
	93.3	63	15	2.27	1.2
	70	81	20	2.50	0.9
	46.7	114	30	3.74	1.4
NMRV063	35	143	40	4.12	1.0
	56	102	25	4.16	2.0
	46.7	117	30	4.42	2.0
	35	147	40	4.86	1.5
	28	177	50	5.24	1.2
NMRV075	23.3	200	60	5.56	1.0
	28	184	50	5.79	1.8
	23.3	212	60	6.16	1.5

机型号 Model	输出转速 N ₂ (r/min)	输出转矩 M ₂ (N.m)	传动比 i	输出轴 径向力 kN	使用系数 f.s.
0.75kw					
NMRV090	17.5	258	80	6.78	1.1
	14	302	100	7.30	0.9
1.1kw					
NMRV063	186.7	49	7.5	2.35	2.6
	140	65	10	2.59	2.0
	93.3	93	15	2.97	1.5
	70	122	20	3.27	1.1
	56	146	25	3.52	0.9
	46.7	167	30	3.74	1.0
	35	165	40	3.59	0.9
	93.3	95	15	3.50	2.1
NMRV075	70	123	20	3.86	1.7
	56	150	25	4.16	1.3
	46.7	171	30	4.42	1.3
	35	216	40	4.86	1.0
	28	264	50	4.60	0.9
	23.3	223	60	4.89	0.8
NMRV090	35	225	40	5.38	1.6
	28	270	50	5.79	1.3
	23.3	311	60	6.16	1.0
	17.5	328	80	6.17	0.9
NMRV110	28	281	50	7.32	2.3
	23.3	324	60	7.78	1.9
	17.5	402	80	8.57	1.3
	14	473	100	9.23	1.0
1.5kw					
NMRV063	186.7	67	7.5	2.35	1.9
	140	89	10	2.59	1.5
	93.3	127	15	2.97	1.1
	70	166	20	3.27	0.8
NMRV075	140	90	10	3.06	2.2
	93.3	130	15	3.50	1.5
	70	168	20	3.86	1.3
	56	205	25	4.16	1.0
	46.7	233	30	4.42	1.0
NMRV090	70	171	20	4.27	2.1
	56	210	25	4.60	1.6
	46.7	239	30	4.89	1.7
	35	307	40	5.38	1.2
	28	368	50	5.79	0.9
NMRV110	23.3	424	60	6.16	0.8
	35	319	40	6.80	2.2
	28	384	50	7.32	1.7
	23.3	442	60	7.78	1.4
NMRV110	17.5	548	80	8.57	0.9
2.2kw					
NMRV075	186.7	100	7.5	2.78	1.8
	140	132	10	3.06	1.5
	93.3	191	15	3.50	1.0
	70	240	20	3.38	0.9
	46.7	269	30	3.89	0.8
NMRV090	186.7	101	7.5	3.08	2.9
	140	134	10	3.39	2.3
NMRV090	93.3	194	15	3.88	1.9

机型代号 Model	输出转速 N ₂ (r/min)	输出转矩 M ₂ (N.m)	传动比 i	输出轴 径向力 kN	使用系数 f.s.
2.2kw					
NMRV090	70	252	20	4.27	1.4
	56	308	25	4.60	1.1
	46.7	351	30	4.89	1.2
	35	433	40	4.90	1.0
	28	393	50	5.28	0.9
NMRV110	70	255	20	5.39	2.5
	56	315	25	5.81	2.2
	46.7	356	30	6.18	2.0
	35	468	40	6.8	1.5
	28	563	50	7.32	1.2
NMRV130	23.3	648	60	7.78	1.0
	35	468	40	8.89	2.2
	28	563	50	9.58	1.7
	23.3	648	60	10.18	1.4
	17.5	816	80	11.21	1.0
NMRV150	14	869	100	10.62	0.8
	28	570	50	13.10	2.5
	23.3	657	60	13.92	1.9
	17.5	816	80	15.32	1.4
	14	960	100	16.50	1.0
3kw					
NMRV075	186.7	136	7.5	2.78	1.4
	140	180	10	3.06	1.1
	93.3	261	15	3.50	0.8
NMRV090	186.7	138	7.5	3.08	2.1
	140	182	10	3.39	1.7
	93.3	264	15	3.88	1.4
	70	344	20	4.27	1.0
	56	420	25	4.60	0.8
NMRV110	46.7	479	30	4.89	0.9
	93.3	264	15	4.90	2.5
	70	348	20	5.39	1.9
	56	430	25	5.81	1.6
	46.7	485	30	6.18	1.5
NMRV130	35	638	40	6.80	1.1
	28	767	50	7.32	0.9
	56	429	25	7.60	2.2
	46.7	491	30	8.08	2.1
	35	638	40	8.89	1.6
NMRV150	28	767	50	9.58	1.3
	23.3	884	60	10.18	1.0
	17.5	1113	80	11.21	0.8
	28	777	50	13.10	1.8
	23.3	896	60	13.92	1.4
NMRV110	14	1310	100	16.50	0.8
4kw					
NMRV075	186.7	182	7.5	2.44	1.4
NMRV090	186.7	184	7.5	3.08	1.6
	140	243	10	3.39	1.3
	93.3	352	15	3.88	1.0
	70	458	20	4.27	0.8
NMRV110	140	242	10	4.28	2.5
	93.3	352	15	4.90	1.9
	70	464	20	5.39	1.4

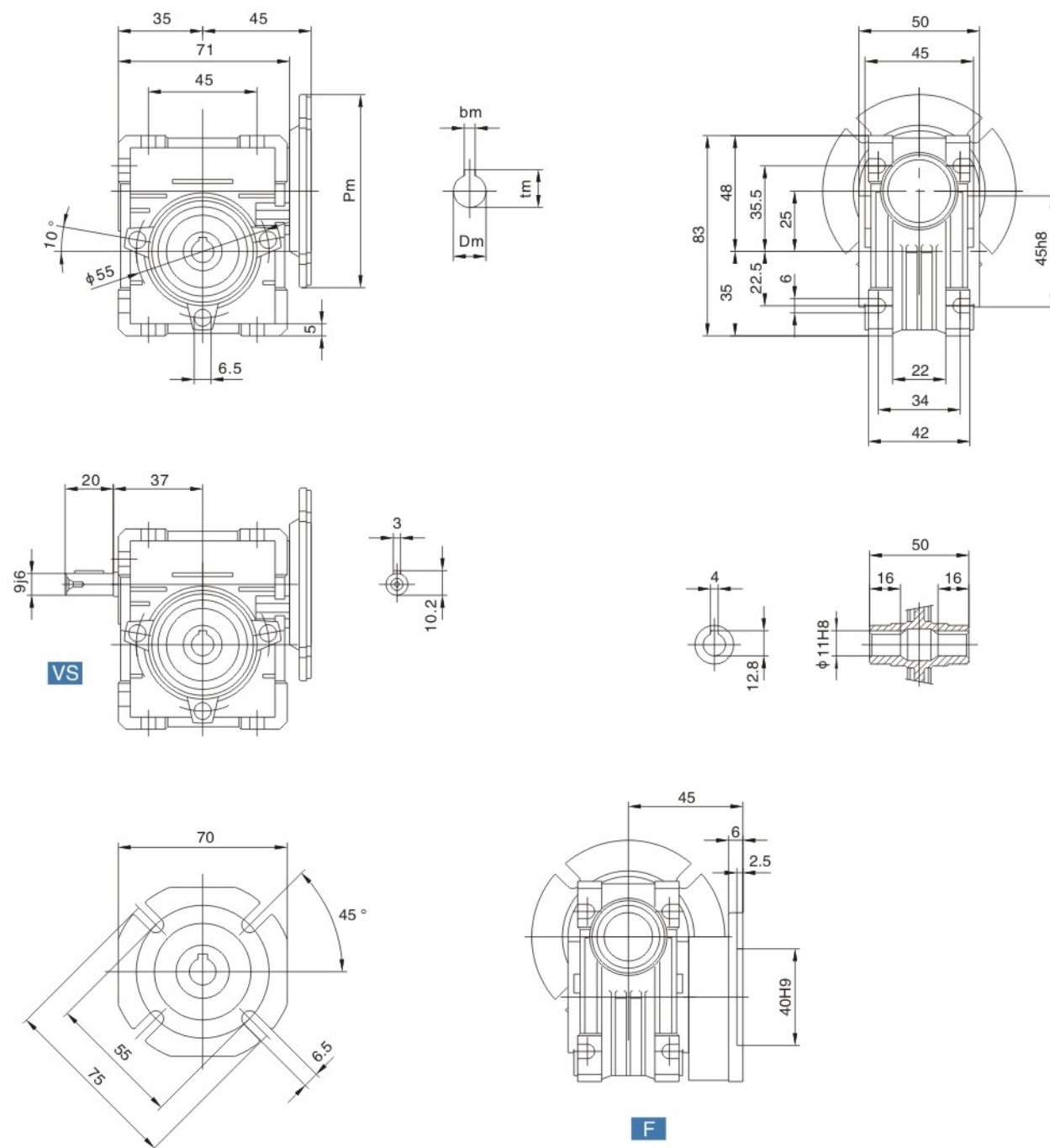
机型代号 Model	输出转速 N ₂ (r/min)	输出转矩 M ₂ (N.m)	传动比 i	输出轴 径向力 kN	使用系数 f.s.
4kw					
NMRV110	56	573	25	5.81	1.2
	46.7	647	30	6.18	1.1
	56	573	25	7.60	1.6
	46.7	655	30	8.08	1.6
	35	851	40	8.89	1.2
NMRV130	28	1023	50	9.58	1.0
	23.3	1179	60	10.18	0.8
	28	1036	50	13.10	1.4
	23.3	1195	60	13.92	1.1
	17.5	1484	80	15.32	0.8
5.5kw					
NMRV110	186.7	253	7.5	3.89	2.2
	140	334	10	4.28	1.8
	93.3	484	15	4.90	1.4
	70	638	20	5.39	0.9
	56	711	25	5.15	1.0
NMRV130	140	333	10	5.60	2.5
	93.3	490	15	6.41	1.9
	70	645	20	7.06	1.4
	56	788	25	7.60	1.2
	46.7	900	30	8.08	1.2
NMRV150	35	1171	40	8.89	0.9
	28	1103	50	8.51	0.8
	70	645	20	9.65	2.0
	56	788	25	10.40	1.5
	46.7	934	30	11.05	1.3
NMRV110	35	1171	40	12.16	1.3
	28	1426	50	13.10	1.0
	23.3	1643	60	13.92	0.8
7.5kw					
NMRV110	186.7	345	7.5	3.89	1.6
	140	455	10	4.28	1.3
	93.3	660	15	4.90	1.0
NMRV130	186.7	349	7.5	5.09	2.1
	140	455	10	5.6	1.8
	93.3	668	15	6.41	1.4
	70	880	20	7.06	1.0
	56	1074	25	7.6	0.9
NMRV150	46.7	1228	30	8.08	0.8
	35	1596	40	8.89	0.7
	70	880	20	9.65	1.5
	56	1074	25	10.4	1.1
	46.7	1274	30	11.05	0.9
NMRV110	35	1596	40	12.16	1.0
11kw					
NMRV150	186.7	512	7.5	6.96	2.3
	140	675	10	7.66	1.8
	93.3	990	15	8.77	1.3
	70	1291	20	9.65	1.0
	56	1576	25	10.4	0.8
15kw					
NMRV150	186.7	698	7.5	6.96	1.7
	140	921	10	7.66	1.3
	93.3	1351	15	8.77	0.9
	70	1760	20	9.65	0.7

NRV单级 (轴伸输入，输入转速1400r/min)/(配4极电机)
NRV Single step reducer (shaft extend input, input speed is 1400r/min)

机型代号 Model	输入轴 功率 kW	输出转速 N ₂ (r/min)	输出转矩 M ₂ (N.m)	传动比 i	输出轴 径向力 kN	输入轴 径向力 kN
NRV030	0.4	186.7	18	7.5	0.68	0.15
	0.3	140	18	10	0.75	0.16
	0.2	93.3	18	15	0.86	0.16
	0.2	70	18	20	0.94	0.19
	0.2	56	21	25	1.02	0.21
	0.2	46.7	20	30	1.08	0.21
	0.1	35	18	40	1.19	0.21
	0.1	28	17	50	1.28	0.21
	0.1	23.3	16	60	1.36	0.21
	0.1	17.5	13	80	1.50	0.21
NRV040	0.9	186.7	40	7.5	1.31	0.29
	0.7	140	40	10	1.44	0.33
	0.5	93.3	40	15	1.65	0.33
	0.4	70	39	20	1.82	0.35
	0.3	56	38	25	1.96	0.35
	0.3	46.7	45	30	2.08	0.35
	0.2	35	41	40	2.29	0.35
	0.2	28	39	50	2.47	0.35
	0.2	23.3	36	60	2.63	0.35
	0.1	17.5	33	80	2.89	0.35
	0.1	14	29	100	3.11	0.35
NRV050	1.6	186.7	71	7.5	1.80	0.4
	1.2	140	72	10	1.98	0.49
	0.9	93.3	74	15	2.27	0.49
	0.7	70	73	20	2.50	0.49
	0.5	56	70	25	2.69	0.49
	0.6	46.7	84	30	2.86	0.49
	0.4	35	76	40	3.15	0.49
	0.3	28	73	50	3.39	0.49
	0.3	23.3	68	60	3.61	0.49
	0.2	17.5	65	80	3.97	0.49
	0.2	14	55	100	4.28	0.49
NRV063	2.8	186.7	128	7.5	2.35	0.5
	2.2	140	130	10	2.59	0.57
	1.6	93.3	140	15	2.97	0.61
	1.2	70	135	20	3.27	0.66
	1.0	56	130	25	3.52	0.70
	1.1	46.7	160	30	3.74	0.70
	0.8	35	145	40	4.12	0.70
	0.6	28	135	50	4.44	0.70
	0.5	23.3	130	60	4.71	0.70
	0.4	17.5	122	80	5.19	0.70
	0.3	14	118	100	5.59	0.70
NRV075	4.1	186.7	185	7.5	2.78	0.70
	3.2	140	195	10	3.06	0.83
	2.3	93.3	200	15	3.50	0.85
	1.9	70	210	20	3.86	0.98
	1.5	56	200	25	4.16	0.98
	1.5	46.7	230	30	4.42	0.98

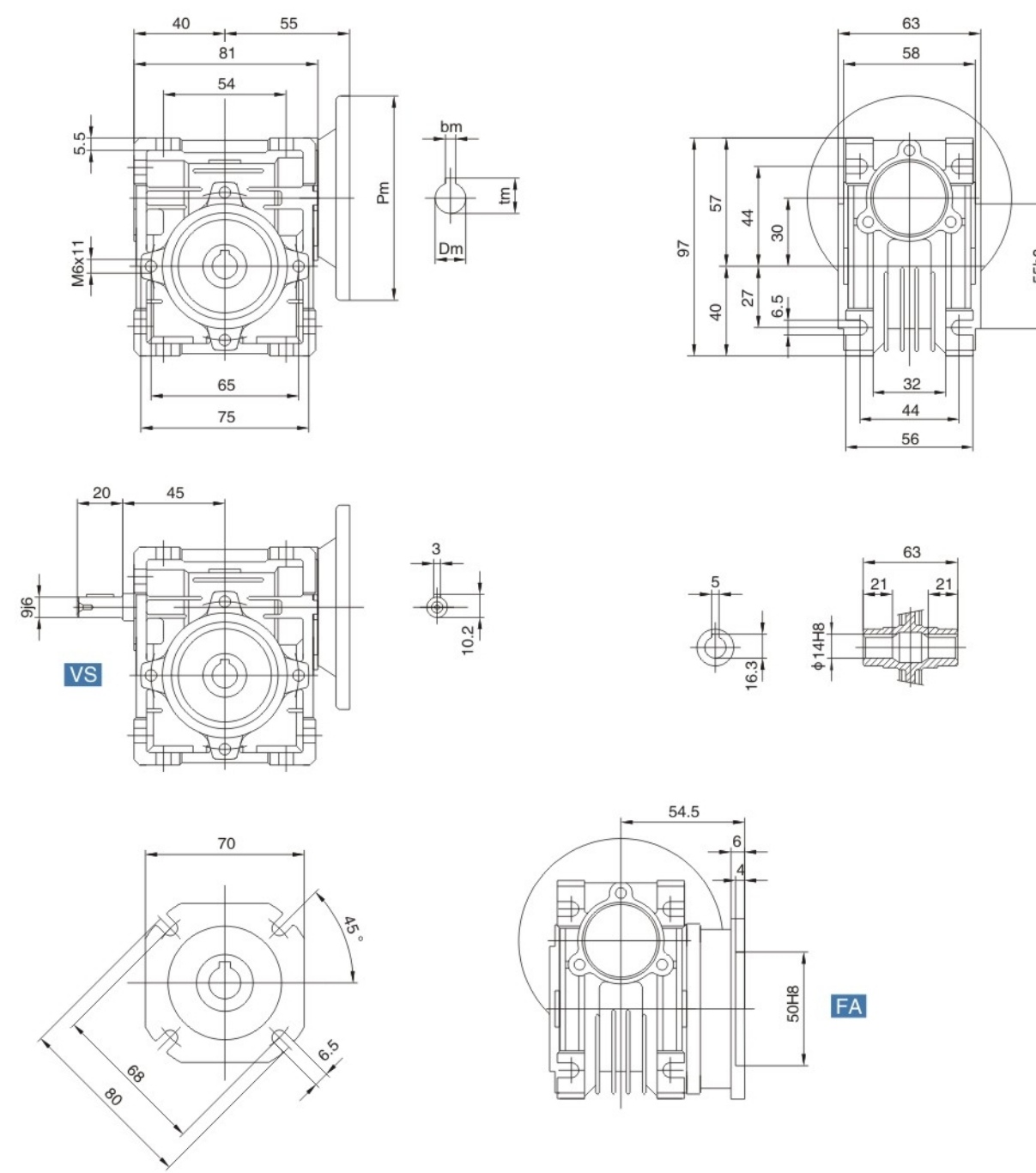
机型代号 Model	输入轴 功率 kW	输出转速 N ₂ (r/min)	输出转矩 M ₂ (N.m)	传动比 i	输出轴 径向力 kN	输入轴 径向力 kN
NRV075	1.1	35	220	40	4.86	0.98
	0.9	28	210	50	5.24	0.98
	0.8	23.3	200	60	5.56	0.98
	0.6	17.5	190	80	6.13	0.98
	0.5	14	180	100	6.60	0.98
NRV090	6.3	186.7	290	7.5	3.08	0.90
	5.1	140	310	10	3.39	1.08
	4.1	93.3	360	15	3.88	1.25
	2.4	56	340	25	4.60	1.27
	2.6	46.7	410	30	4.89	1.27
	1.8	35	360	40	5.38	1.27
	1.4	28	340	50	5.79	1.27
	1.1	23.3	320	60	6.16	1.27
	0.8	17.5	285	80	6.78	1.27
0.7	14	270	100	7.30	1.27	
NRV110	12	186.7	552	7.5	3.89	1.20
	9.8	140	598	10	4.28	1.46
	7.5	93.3	656	15	4.90	1.60
	5.6	70	644	20	5.39	1.70
	4.7	56	679	25	5.81	1.70
	4.5	46.7	725	30	6.18	1.70
	3.3	35	702	40	6.80	1.70
	2.6	28	660	50	7.32	1.70
	2.1	23.3	616	60	7.78	1.70
	1.4	17.5	515	80	8.57	1.70
1.1	14	483	100	9.23	1.70	
NRV130	16.1	186.7	750	7.5	5.09	1.50
	13.5	140	820	10	5.60	1.84
	10.3	93.3	920	15	6.41	2.07
	7.8	70	910	20	7.06	2.10
	6.5	56	930	25	7.60	2.10
	6.4	46.7	1040	30	8.08	2.10
	4.9	35	1050	40	8.89	2.10
	3.8	28	980	50	9.58	2.10
	3.1	23.3	900	60	10.18	2.10
	2.3	17.5	840	80	11.21	2.10
1.7	14	740	100	12.07	2.10	
NRV150	25.8	186.7	1200	7.5	6.96	1.95
	20.2	140	1240	10	7.66	2.26
	13.9	93.3	1250	15	8.77	2.28
	11.1	70	1300	20	9.65	2.67
	8.4	56	1200	25	10.40	2.80
	7.1	46.7	1200	30	11.05	2.80
	7.3	35	1550	40	12.16	2.80
	5.4	28	1400	50	13.10	2.80
	4.2	23.3	1260	60	13.92	2.80
	3.1	17.5	1150	80	15.32	2.80
2.3	14	1000	100	16.50	2.80	

减速机外型尺寸 Dimensions NMRV025



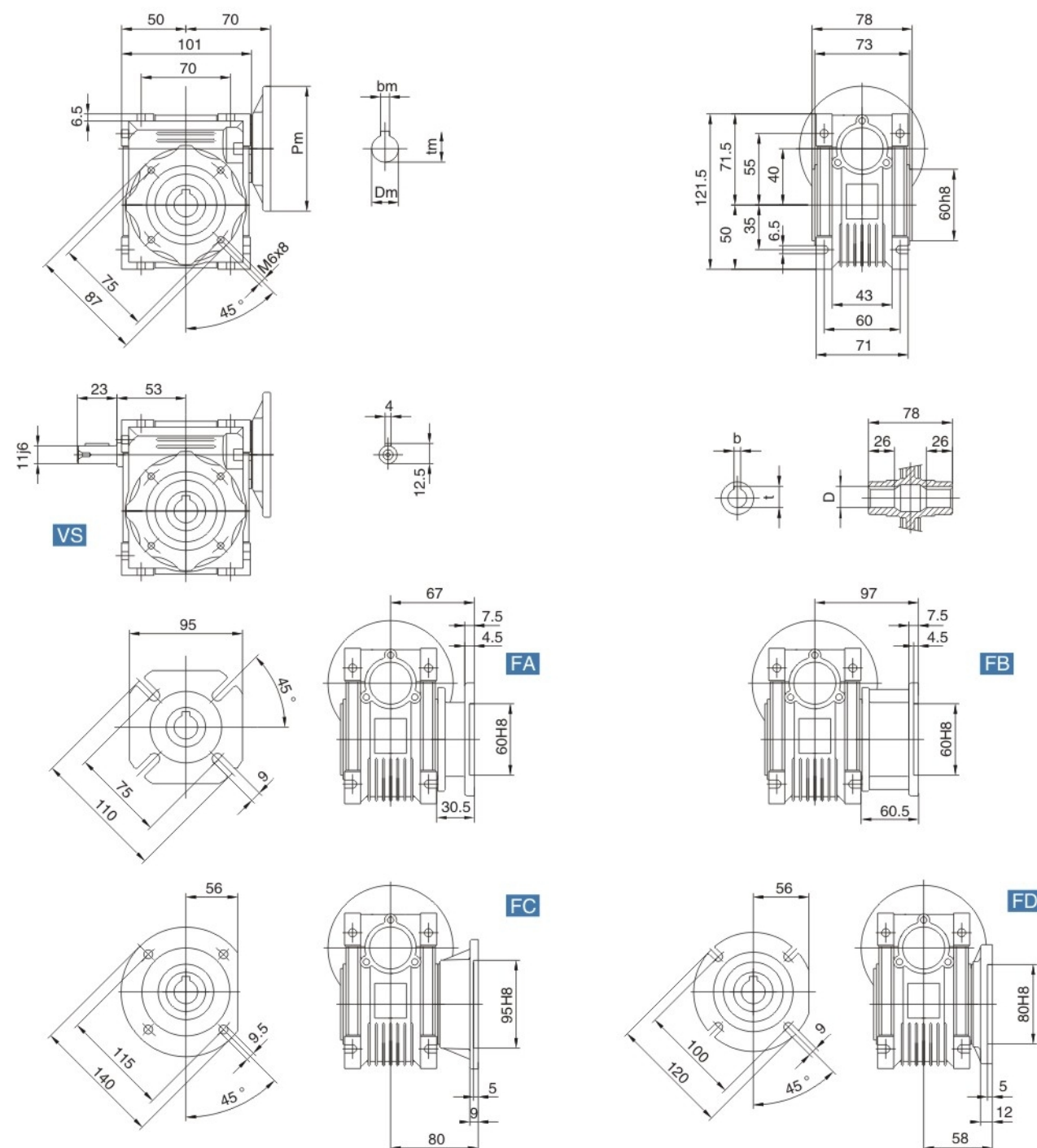
*不带电机重量为: 0.7kg
 *输入尺寸 (Pm,Dm,bm,tm) 参照第40页图表
 *Weight without motor: 0.7kg
 *For the dimensions concerning the motor connection area (Pm,Dm,bm,tm) please refer to the table shown at page 40

减速机外型尺寸 Dimensions NMRV030



*不带电机重量为: 1.3kg
 *输入尺寸 (Pm,Dm,bm,tm) 参照第40页图表
 *Weight without motor: 1.3kg
 *For the dimensions concerning the motor connection area (Pm,Dm,bm,tm) please refer to the table shown at page 40

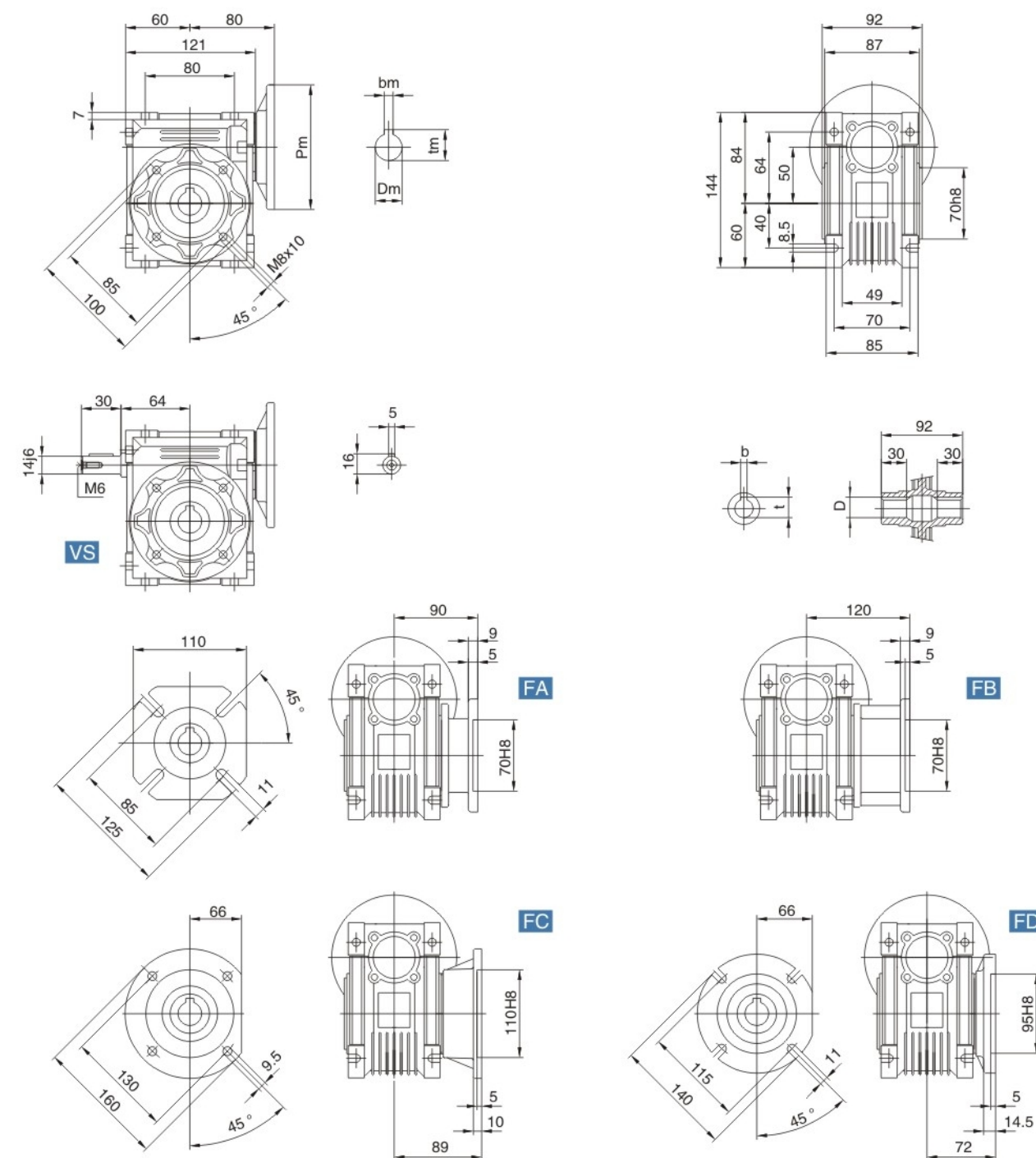
减速机外型尺寸 Dimensions NMRV040



输出/Output		
D H8	b	t
18 (19)	6 (6)	20.8 (21.8)

(..)根据用户要求定制 Only on request
 *不带电机重量为: 2.3kg Weight without motor: 2.3kg
 *输入尺寸 (Pm,Dm,bm,tm) 参照第40页图表
 *For the dimensions concerning the motor connection area (Pm,Dm,bm,tm) please refer to the table shown at page 40

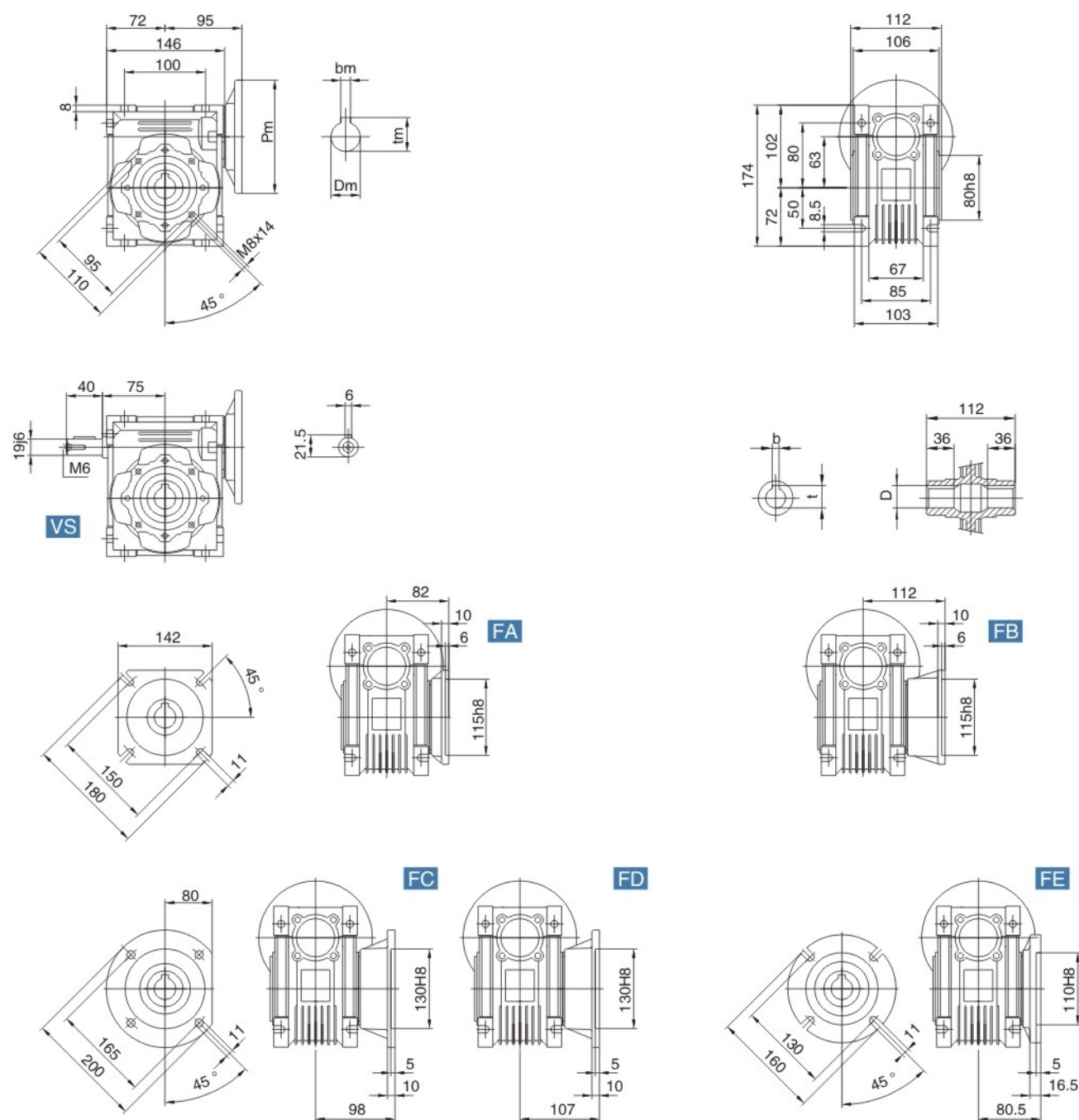
减速机外型尺寸 Dimensions NMRV050



输出/Output		
D H8	b	t
25 (24)	8 (8)	28.3 (27.3)

(..)根据用户要求定制 Only on request
 *不带电机重量为: 3.5kg Weight without motor: 3.5kg
 *输入尺寸 (Pm,Dm,bm,tm) 参照第40页图表
 *For the dimensions concerning the motor connection area (Pm,Dm,bm,tm) please refer to the table shown at page 40

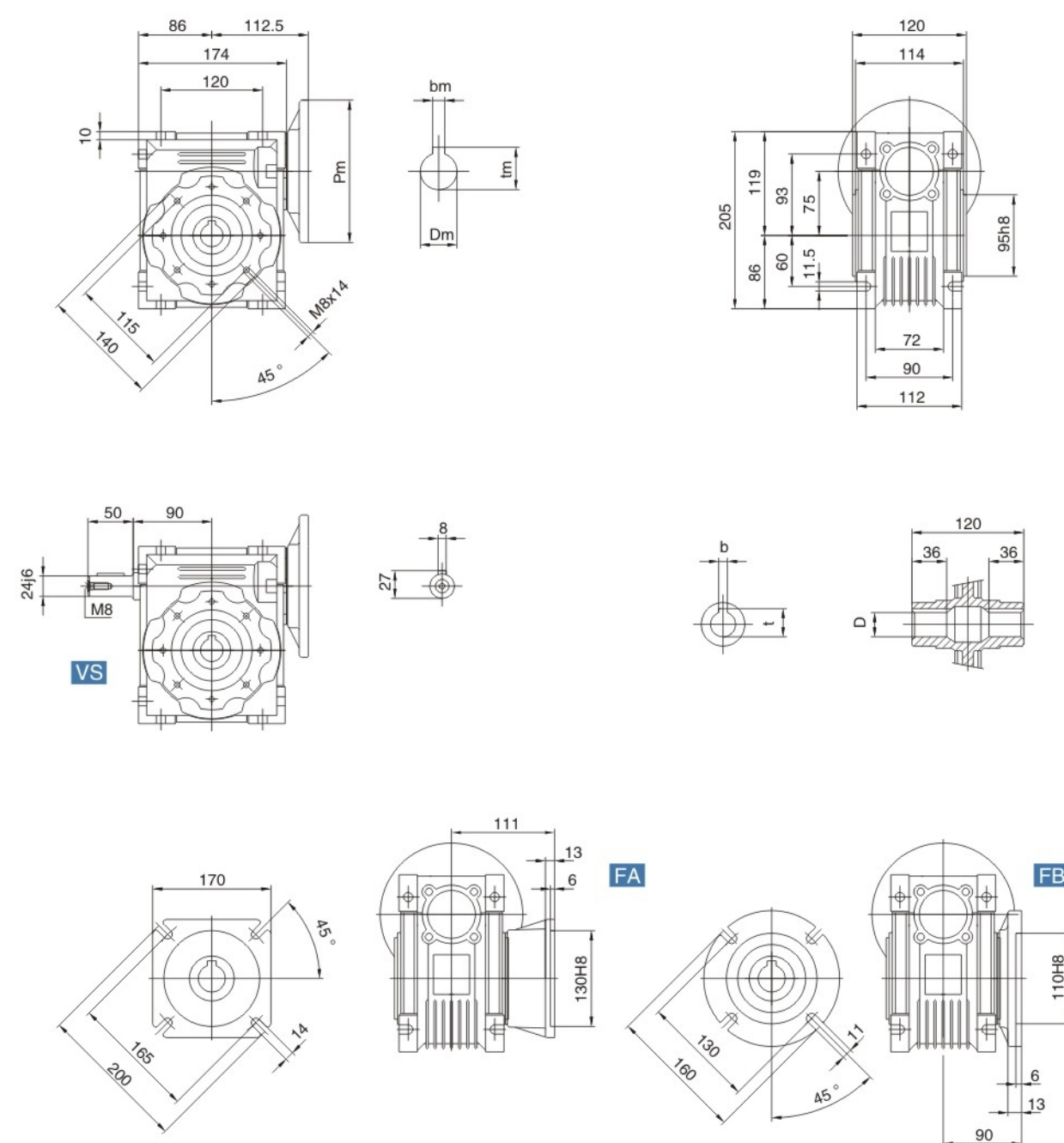
减速机外型尺寸 Dimensions NMRV063



输出/Output		
D H8	b	t
25 (28)	8 (8)	28.3 (31.3)

(..)根据用户要求定制 Only on request
 *不带电机重量为: 6.2kg Weight without motor: 6.2kg
 *输入尺寸 (Pm,Dm,bm,tm) 参照第40页图表
 *For the dimensions concerning the motor connection area (Pm,Dm,bm,tm) please refer to the table shown at page 40

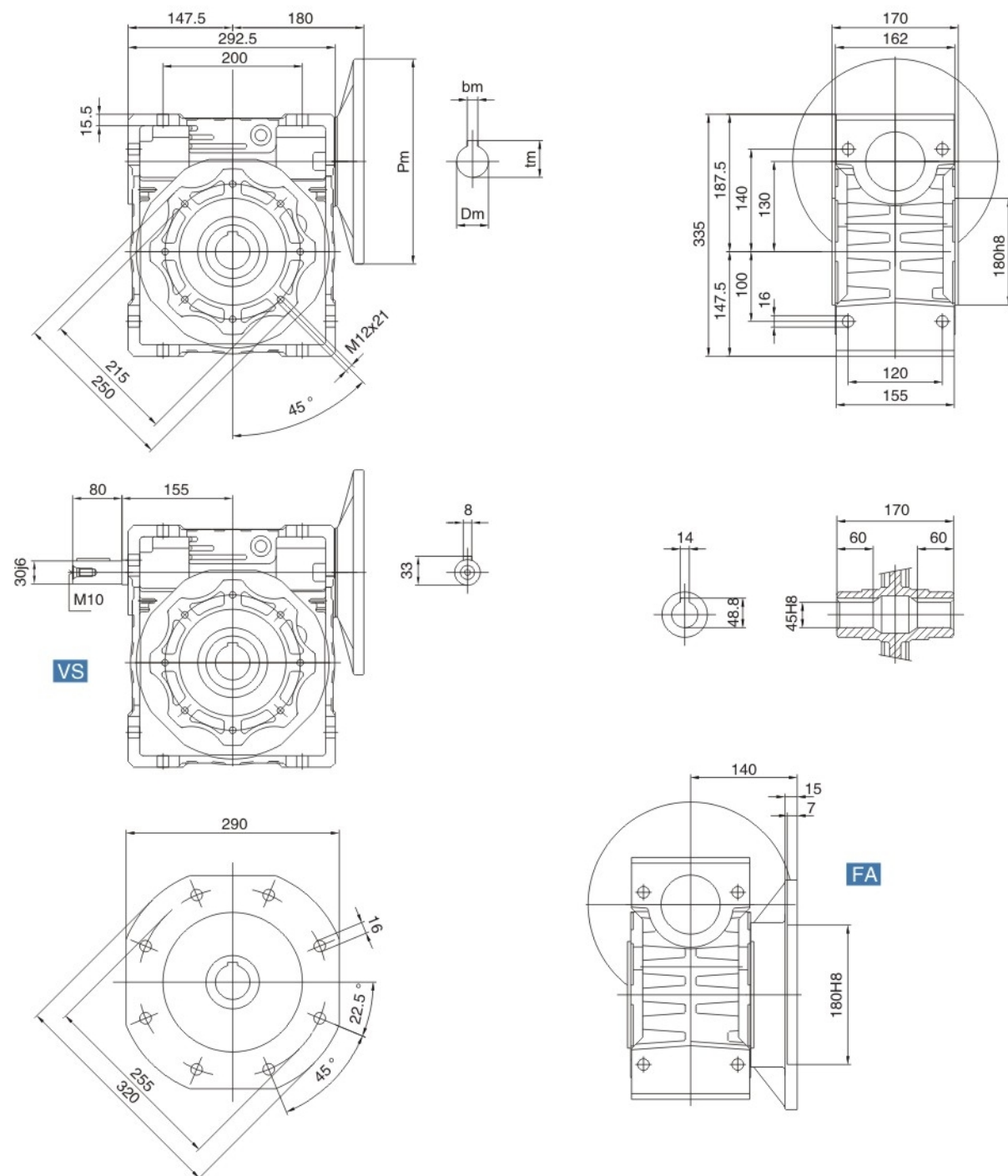
减速机外型尺寸 Dimensions NMRV075



输出/Output		
D H8	b	t
28 (35)	8 (10)	31.3 (38.3)

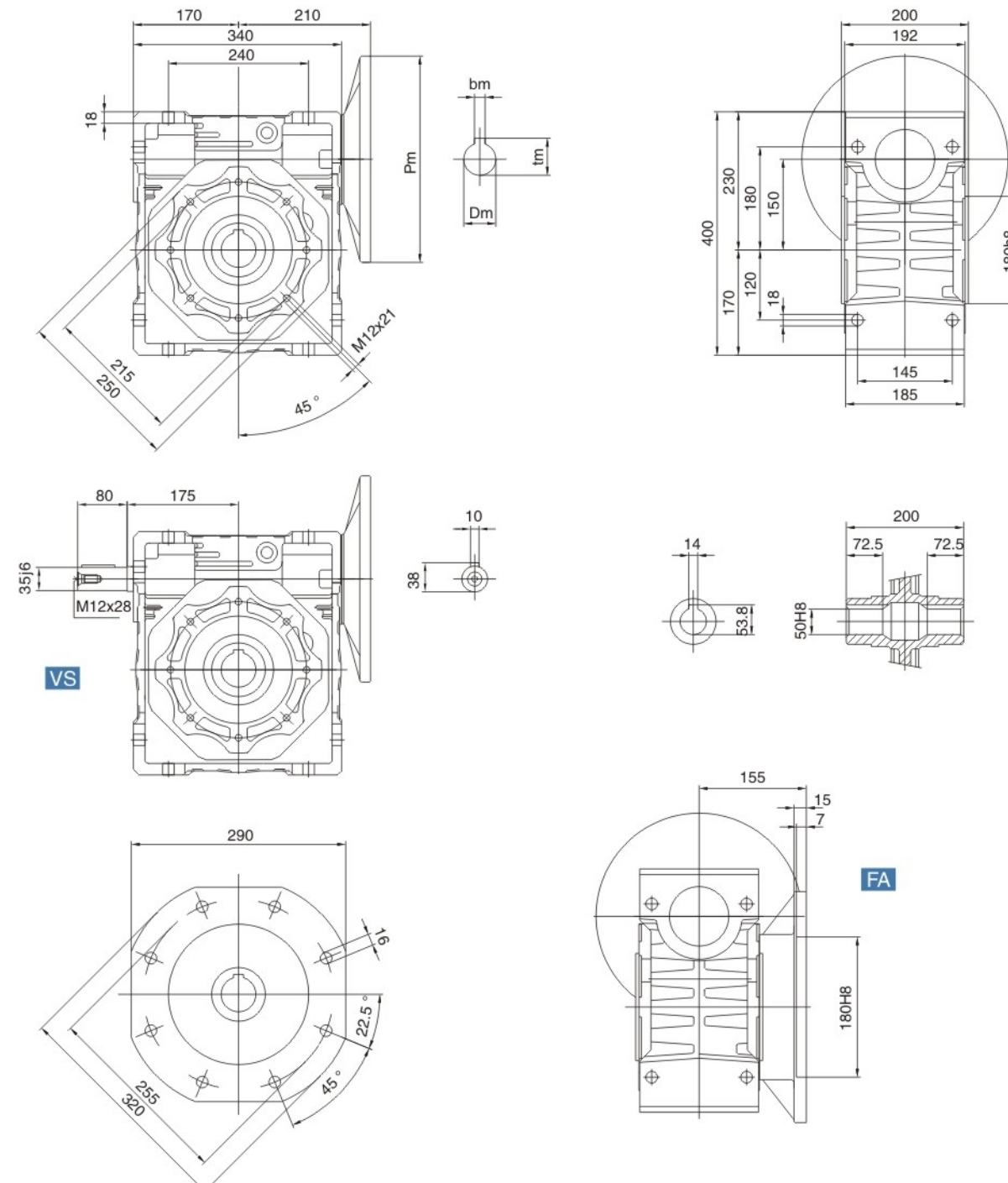
(..)根据用户要求定制 Only on request
 *不带电机重量为: 9kg Weight without motor: 9kg
 *输入尺寸 (Pm,Dm,bm,tm) 参照第40页图表
 *For the dimensions concerning the motor connection area (Pm,Dm,bm,tm) please refer to the table shown at page 40

减速机外型尺寸 Dimensions NMRV130



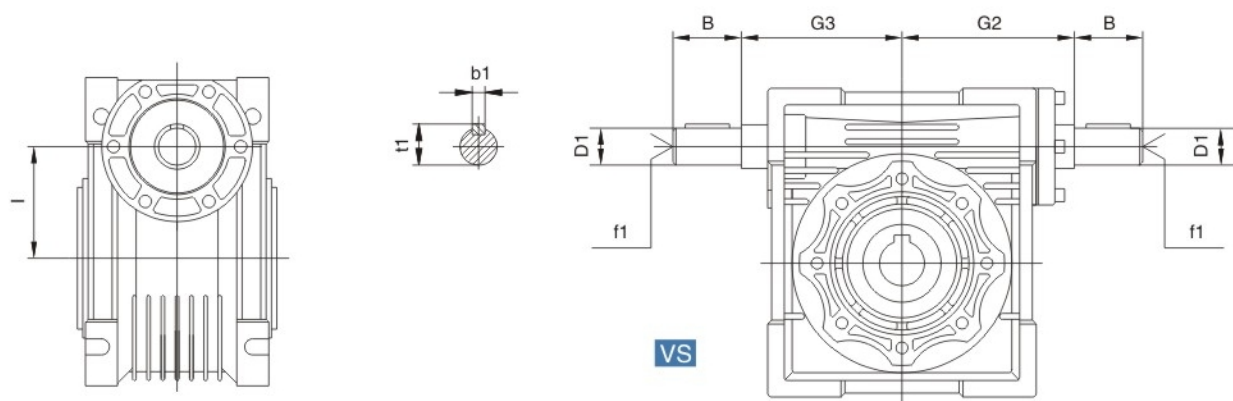
*不带电机重量为: 48kg Weight without motor: 48kg
 *输入尺寸 (Pm,Dm,bm,tm) 参照第40页图表
 *For the dimensions concerning the motor connection area (Pm,Dm,bm,tm) please refer to the table shown at page 40

减速机外型尺寸 Dimensions NMRV150



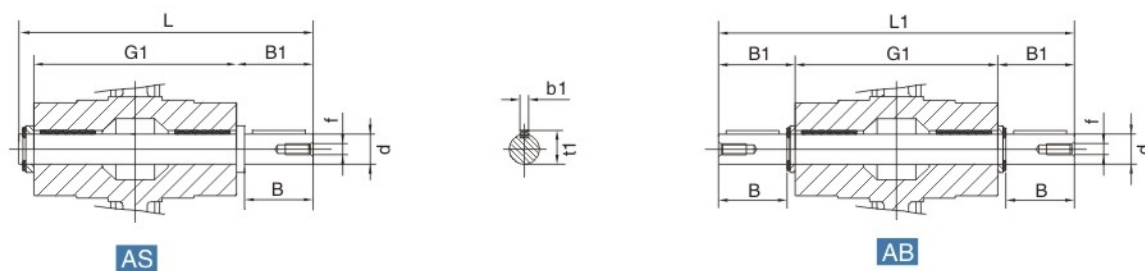
*不带电机重量为: 84kg Weight without motor: 84kg
 *输入尺寸 (Pm,Dm,bm,tm) 参照第40页图表
 *For the dimensions concerning the motor connection area (Pm,Dm,bm,tm) please refer to the table shown at page 40

NRV外形尺寸 Dimension



NRV	G2	G3	D1	B	F1	I	b1	t1
025	38	37	9j6	20	—	25	3	10.2
030	51	45	9j6	20	—	30	3	10.2
040	60	53	11j6	23	—	40	4	12.5
050	74	64	14j6	30	M6	50	5	16
063	90	75	19j6	40	M6	63	6	21.5
075	105	90	24j6	50	M8	75	8	27
090	125	108	24j6	50	M8	90	8	27
110	142	135	28j6	60	M10	110	8	31
130	162	155	30j6	80	M10	130	8	33
150	195	175	35j6	80	M12	150	10	38

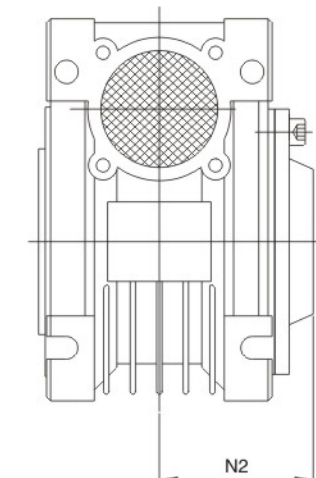
低速轴尺寸 Low speed shafts dimension



	d	B	B1	G1	L	L1	f	b1	t1
025	11g6 (9)	23 (25)	25.5 (30)	50	81 (85.5)	101	—	4 (3)	12.5 (10.2)
030	14 g6	30	32.5	63	102	128	M6	5	16
040	18 h6	40	43	78	128	164	M6	6	20.5
050	25 h6	50	53.5	92	153	199	M10	8	28
063	25 h6	50	53.5	112	173	219	M10	8	28
075	28 h6	60	63.5	120	192	247	M10	8	31
090	35 h6	80	84.5	140	234	309	M12	10	38
110	42 h6	80	84.5	155	249	324	M16	12	45
130	45 h6	80	85	170	265	340	M16	14	48.5
150	50 h6	82	87	200	297	374	M16	14	53.5

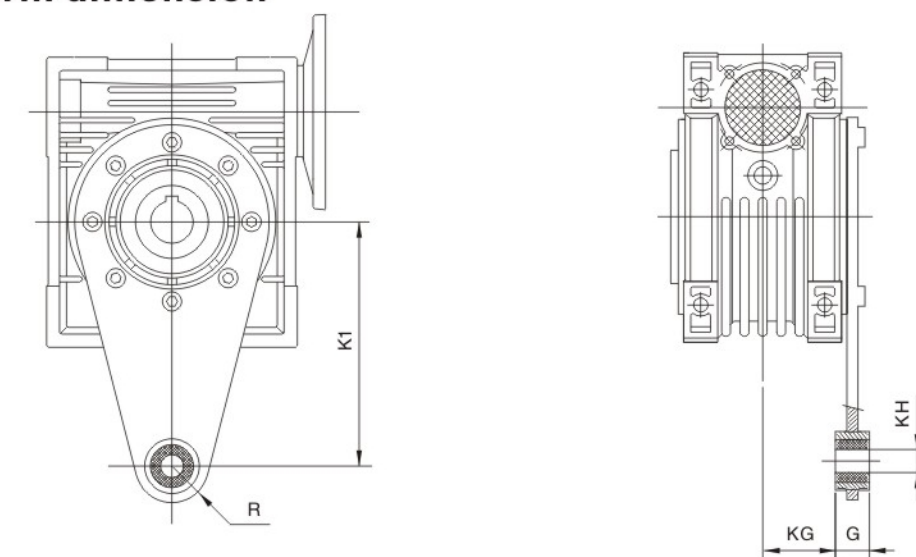
注：输出轴可按用户要求定制 Only on request

外罩 Cover



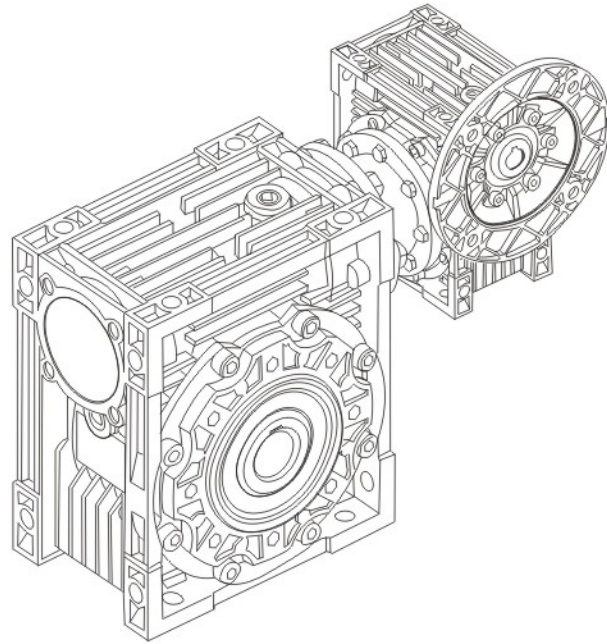
	N2
030	42
040	50
050	58
063	69
075	71
090	86
105	94
110	94
130	102
150	113

转矩臂尺寸 Torque arm dimension



	K1	G	KG	KH	R
025	70	14	17.5	8	15
030	85	14	24	8	15
040	100	14	31.5	10	18
050	100	14	38.5	10	18
063	150	14	49	10	18
075	200	25	47.5	20	30
090	200	25	57.5	20	30
110	250	30	62	25	35
130	250	30	69	25	35
150	250	30	84	25	35

NMRV-NMRV

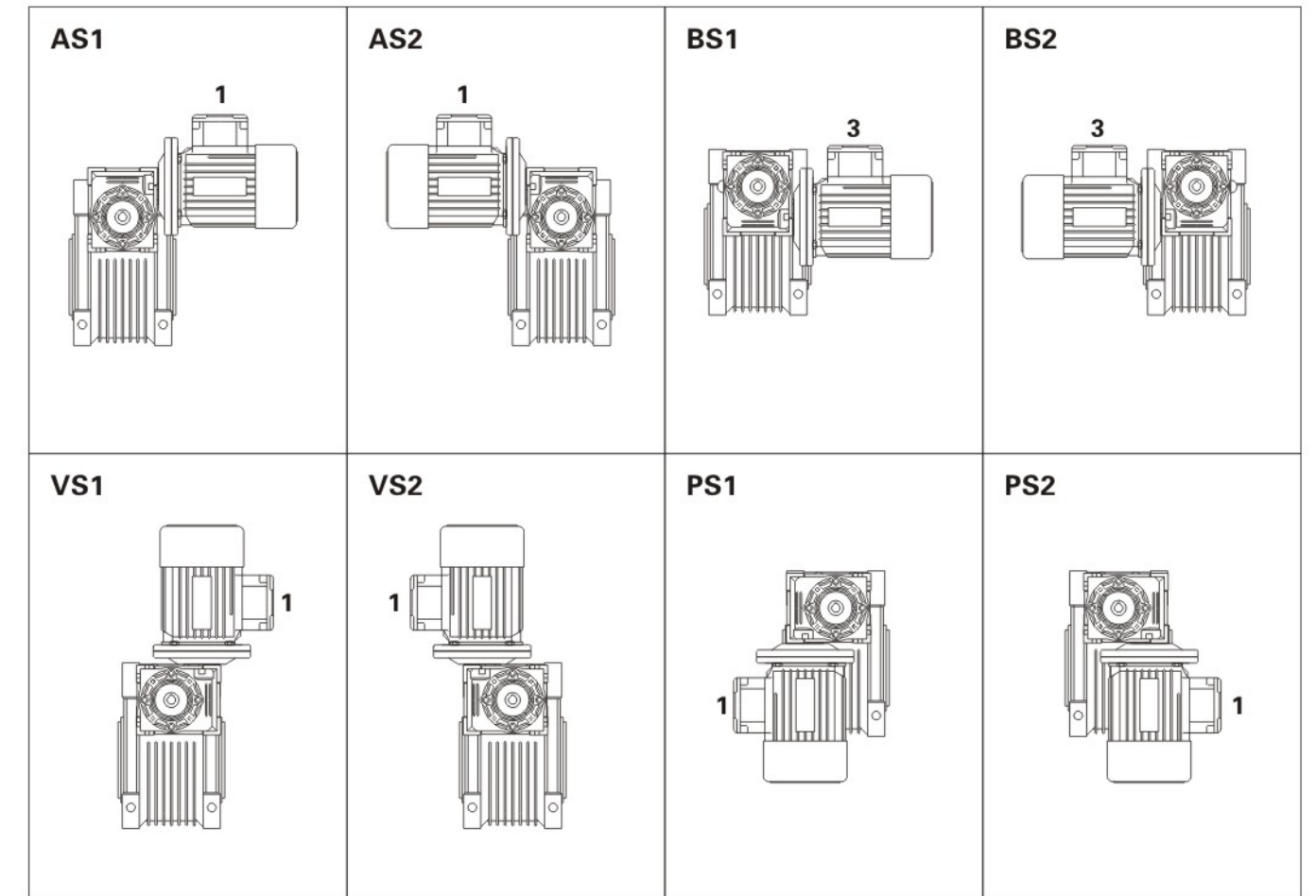


NMRV-NMRV型号标记 Model & marker

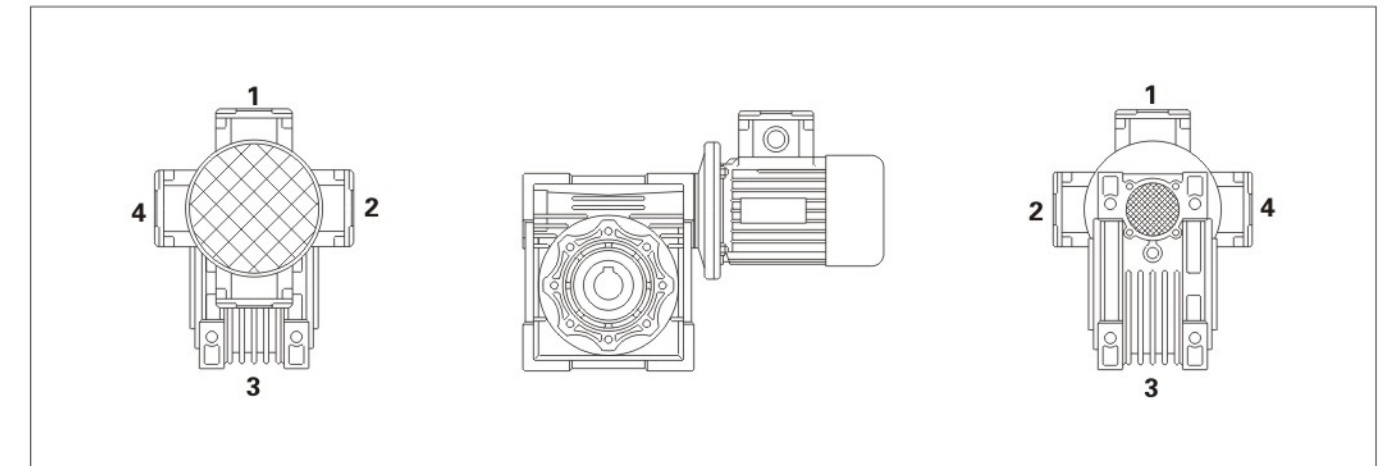
NMRV-040/090-500-VS-F1(FA)-AS-80B5-0.75kW-AS1			
NMRV+NMRV	双蜗轮减速机 Combined worm geared motor		
NRV+NMRV	配输入轴双蜗轮减速机 Combined worm reduction unit		
040/090	蜗轮减速机中心距 Center distance		
500	减速比 Reduction ratio		
VS	双向输入轴 Double input shaft	F1(FA)	输出法兰位置及型号 Output flange
AS	单向输出轴 Single output shaft	AB	双向输出轴 Double output shaft
PAM	电机联接 Fitted for motor coupling	80B5	电机机座号和安装结构形式 Motor mounting facility
0.75kW	电机功率 Electric motor power	AS1	安装方位 Mounting position

注: 1、用户需要带电机时, 请注明“带电机”字样, 并注明所带电机的基本参数。
 2、附件为按用户需求随减速机附带之零件, 未直接装配在减速机上, 用户可根据实际需要自行装配。
 Note: 1.If you need motor, please note "with motor" and the model, power & poles of the motor.
 2.Accessories are unassembled. You may assemble them according to your need.

NMRV-NMRV安装方位 Mounting positions



接线盒安装方式 Position of terminal box



NMRV–NMRV选型参数 Parameter selections

NMRV–NMRV双级减速机(法兰输入，输入转速1400r/min) /(配4极电机)
Double step reducer(flange input, input speed is 1400r/min)/(matched with 4 poles motor)

组合 机型 Model	输出 转速 N ₂ (r/min)	输出 转矩 M ₂ (N.m)	总 传动比 i	高速级 传动比 i ₁	低速级 传动比 i ₂	输出轴 径向力 kN	使用 系数 f.s.
0.06kw							
25/30	14	25	100	10	10	1.62	1.3
	9.3	32	150	10	15	1.83	0.9
	7.0	41	200	10	20	1.83	0.7
	5.6	44	250	10	25	1.83	0.8
25/40	4.7	59	300	10	30	3.49	1.2
	3.5	71	400	10	40	3.49	0.9
	2.8	82	500	20	25	3.49	0.7
	2.3	101	600	20	30	3.49	0.6
	1.9	116	750	25	30	3.49	0.5
	1.6	143	900	30	30	3.49	0.5
	1.2	171	1200	30	40	3.49	0.4
	0.9	197	1500	50	30	3.49	0.3
	0.8	217	1800	60	30	3.49	0.3
	0.6	268	2400	60	40	3.49	0.2
	0.5	324	3000	60	50	3.49	0.2
	0.4	294	4000	50	80	3.49	0.1
30/40	0.3	356	5000	50	100	3.49	0.1
	4.7	57	300	10	30	3.49	1.3
	3.5	70	400	10	40	3.49	0.9
	2.8	96	500	20	25	3.49	0.6
	2.3	104	600	20	30	3.49	0.7
	1.9	121	750	25	30	3.49	0.6
	1.6	139	900	30	30	3.49	0.5
	1.2	166	1200	30	40	3.49	0.4
	0.9	196	1500	50	30	3.49	0.4
	0.8	218	1800	60	30	3.49	0.3
	0.58	261	2400	60	40	3.49	0.2
	0.4	300	3200	80	40	3.49	0.2
30/50	0.4	279	4000	50	80	3.49	0.1
	0.28	338	5000	50	100	3.49	0.1
	1.6	141	900	30	30	4.84	1.0
	1.2	169	1200	30	400	4.84	0.7
	0.93	199	1500	50	30	4.84	0.7
	0.78	222	1800	60	30	4.84	0.7
	0.6	266	2400	60	40	4.84	0.5
	0.5	307	3000	60	50	4.84	0.4
	0.35	288	4000	50	80	4.84	0.3
	0.29	311	4800	60	80	4.84	0.3
30/63	0.9	203	1500	30	50	6.27	1.1
	0.78	225	1800	30	60	6.27	0.9
	0.58	276	2400	60	40	6.27	0.8
	0.47	319	3000	60	50	6.27	0.7
	0.35	306	4000	50	80	6.27	0.6
	0.28	360	5000	50	100	6.27	0.4

组合 机型 Model	输出 转速 N ₂ (r/min)	输出 转矩 M ₂ (N.m)	总 传动比 i	高速级 传动比 i ₁	低速级 传动比 i ₂	输出轴 径向力 kN	使用 系数 f.s.
0.06kw							
40/75	0.6	330	2400	60	40	7.38	1.1
	0.47	377	3000	60	50	7.38	0.8
	0.35	355	4000	50	80	7.38	0.7
	0.28	419	5000	50	100	7.38	0.5
40/90	0.5	405	3000	60	50	8.18	1.4
	0.35	365	4000	50	80	8.18	1.3
	0.28	431	5000	50	100	8.18	1.0
0.09kw							
25/30	14	37	100	10	10	1.62	0.8
	9.3	49	150	10	15	1.83	0.6
	7.0	62	200	10	20	1.83	0.5
	5.6	66	250	10	25	1.83	0.5
	4.7	75	300	10	30	1.83	0.4
	3.5	107	400	10	40	1.83	0.3
	2.8	115	500	20	25	1.83	0.2
	2.3	135	600	20	30	1.83	0.2
	1.9	151	750	25	30	1.83	0.2
	1.6	178	900	30	30	1.83	0.2
	1.2	212	1200	30	40	1.83	0.1
	0.9	247	1500	50	30	1.83	0.1
30/40	0.78	304	1800	60	30	1.83	0.1
	0.58	340	2400	60	40	1.83	0.1
	0.47	405	3000	60	50	1.83	0.1
	4.7	87	300	10	30	3.49	0.8
30/50	3.5	106	400	10	40	4.84	1.2
	2.8	123	500	10	50	4.84	1.0
	2.3	159	600	20	30	4.84	0.9
	1.9	185	750	25	30	4.84	0.8
30/63	1.6	212	900	30	30	4.84	0.7
	1.6	200	900	15	60	6.27	1.0
	1.2	263	1200	30	40	6.27	0.9
	0.93	305	1500	30	50	6.27	0.7
40/75	0.9	359	1500	50	30	7.38	1.1
	0.78	404	1800	60	30	7.38	1.0
	0.58	496	2400	60	40	7.38	0.7
	0.5	608	3000	60	50	8.18	0.9
40/90	0.35	548	4000	50	80	8.18	0.8
0.12kw							
30/50	4.7	118	300	10	30	4.84	1.2
	3.5	142	400	10	40	4.84	0.9
	2.8	164	500	10	50	4.84	0.7
	2.3	171	500	10	50	6.27	1.3
30/63	2.3	208	600	15	40	6.27	1.1
	1.9	241	750	15	50	6.27	0.9

组合 机型 Model	输出 转速 N ₂ (r/min)	输出 转矩 M ₂ (N.m)	总 传动比 i	高速级 传动比 i ₁	低速级 传动比 i ₂	输出轴 径向力 kN	使用 系数 f.s.
0.12kw							
40/75	1.6	324	900	30	30	7.38	1.2
	1.2	399	1200	30	40	7.38	0.9
40/90	0.78	546	1800	30	60	8.18	0.9
	0.58	695	2400	60	40	8.18	0.9
50/110	0.5	883	3000	60	50	10.32	1.2
	0.35	784	4000	50	80	10.32	1.0
	0.28	928	5000	50	100	10.32	0.8
0.18kw							
30/63	3.5	221	400	10	40	6.27	1.0
	2.8	257	500	10	50	6.27	0.8
40/75	2.3	362	600	20	30	7.38	1.1
	1.9	435	750	25	30	7.38	0.9
	1.6	487	900	30	30	7.38	0.8
40/90	1.2	629	1200	30	40	8.18	1.0
	0.93	735	1500	30	50	8.18	0.8
50/110	0.8	860	1800	60	30	10.32	1.5
	0.58	1113	2400	60	40	10.32	1.1
0.25kw							
30/63	3.5	159	400	10	40	6.27	1.4
	2.8	185	500	10	50	6.27	1.2
40/75	3.5	336	400	10	40	7.38	1.1
	2.8	384	500	10	50	7.38	0.8
40/90	2.3	511	600	15	40	8.18	1.2
	1.9	598	750	15	50	8.18	0.9
	1.6	667	900	15	60	8.18	0.8
	1.2	943	1200	30	40	10.32	1.3
50/110	0.93	1064	1500	50	30	10.32	1.2
	0.78	1195	1800	60	30	10.32	1.1
63/130	0.6	1624	2400	60	40	13.5	1.0
	0.47	1935	3000	60	50	13.5	0.8
	0.35	2046	4000	50	80	13.5	0.6
	0.28	2430	5000	50	100	13.5	0.5
63/150	0.8	1199	1800	60	30	18	1.8
	0.8	1199	1800	60	30	18	1.8
	0.6	1446	2400	60	40	18	1.8
	0.5	1713	3000	60	50	18	1.4
	0.4	2026	4000	50	80	18	0.9
	0.3	2251	5000	50	100	18	0.7
0.37kw							
40/75	4.7	405	300	10	30	7.38	1.0
	3.5	498	400	10	40	7.38	0.7
40/90	4.7	401	300	7.5	40	8.18	1.5
	3.5	523	400	10	40	8.18	1.2
	2.8	611	500	10	50	8.18	0.9
	2.3	757	600	15	40	8.18	0.8
50/110	1.9	949	750	25	30	10.32	1.3
	1.6	1079	900	30	30	10.32	1.2
	1.2	1396	1200	30	40	10.32	0.8
	0.9	1674	1500	50	30	13.5	1.1

组合 机型 Model	输出 转速 N ₂ (r/min)	输出 转矩 M ₂ (N.m)	总 传动比 i	高速级 传动比 i ₁	低速级 传动比 i ₂	输出轴 径向力 kN	使用 系数 f.s.
0.37kw							
63/130	0.78	1887	1800	60	30	13.5	0.9
63/150	0.78	1774	1800	60	30	18	1.2
	0.6	2141	2400	60	40	18	1.2
	0.5	2535	3000	60	50	18	0.9
0.55kw							
50/110	4.7	638	300	10	30	10.32	2.0
	3.5	826	400	10	40	10.32	1.4
	2.8	984	500	10	50	10.32	1.1
	2.3	1181	600	15	40	10.32	1.0
	1.9	1411	750	25	30	10.32	0.9
63/130	2.8	995	500	10	50	13.5	1.6
	1.9	1471	750	25	30	13.5	1.2
	1.2	2132	1200	30	40	13.5	0.8
63/150	0.78	2637	1800	60	30	18	0.8
	0.6	3182	240	60	40	18	0.8
0.75kw							
50/110	4.7	871	300	10	30	10.32	1.5
	3.5	1126	400	10	40	10.32	1.1
63/130	2.8	1357	500	10	50	13.5	1.1
	2.3	1631	600	15	40	13.5	1.0
	1.9	2005	750	25	30	13.5	0.9
	1.6	2283	900	30	30	13.5	0.8
63/150	2.8	1290	500	10	50	18	1.8
	2.3	1529	600	15	40	18	1.7
	1.9	1783	750	25	30	18	1.3
	1.6	2215	900	30	30	18	0.9
	1.2	2680	1200	30	40	18	1.0
1.1kw							
63/130	4.7	1312	300	10	30	13.5	1.3
	3.5	1671	400	10	40	13.5	1.0
	2.8	1991	500	10	50	13.5	0.8
63/150	9.3	752	150	10	15	18	3.1
	7.0	966	200	10	20	18	2.4
	5.6	1175	250	10	25	18	1.7
	4.7	1364	300	10	30	18	1.7
	3.5	1619	400	10	40	18	1.6
	2.8	1893	500	10	50	18	1.2
	2.3	2242	600	15	40	18	1.2
	1.9	2616	750	25	30	18	0.9
	1.5kw						
63/130	4.7	1789	300	10	30	13.5	1.0
	3.5	2279	400	10	40	13.5	0.7
63/150	9.3	1026	150	10	15	18	2.3
	7	1317	200	10	20	18	1.8
	5.6	1602	250	10	25	18	1.3
	4.7	1860	300	10	30	18	1.3
	3.5	2208	400	10	40	18	1.2
	2.8	2582	500	10	50	18	0.9
	2.3	3057	600	15	40	18	0.9

NRV-NMRV双级减速机(轴伸输入，输入转速1400r/min)/(配4极电机)
Double step reducer(shaft extend input, input speed is 1400r/min)

机型号 Model	输入轴 功率 kW	输出转速 N2 (r/min)	输出转矩 M2 (N.m)	传动比 i	输出轴 径向力 kN	输入轴 径向力 kN
30/40	0.1	4.7	73	300	3.49	0.21
	0.1	3.5	65	400	3.49	0.21
	0.08	2.8	61	500	3.49	0.21
	0.06	2.3	73	600	3.49	0.21
	0.04	1.9	73	750	3.49	0.21
	0.03	0.6	73	900	3.49	0.21
	0.02	1.2	65	1200	3.49	0.21
	0.02	0.9	73	1500	3.49	0.21
	0.02	0.8	73	1800	3.49	0.21
	0.01	0.58	65	2400	3.49	0.21
	0.01	0.4	65	3200	3.49	0.21
	0.01	0.35	33	4000	3.49	0.21
	0.01	0.28	29	5000	3.49	0.21
30/50	0.15	4.7	145	300	4.84	0.21
	0.1	3.5	124	400	4.84	0.21
	0.1	2.8	120	500	4.84	0.21
	0.1	2.3	145	600	4.84	0.21
	0.1	1.9	145	750	4.84	0.21
	0.1	1.6	145	900	4.84	0.21
	0.08	1.2	124	1200	4.84	0.21
	0.06	0.93	145	1500	4.84	0.21
	0.04	0.78	145	1800	4.84	0.21
	0.03	0.6	124	2400	4.84	0.21
	0.02	0.5	120	3000	4.84	0.21
	0.02	0.35	82	4000	4.84	0.21
	0.02	0.29	82	4800	4.84	0.21
30/63	0.24	4.7	230	300	6.27	0.21
	0.2	3.5	230	400	6.27	0.21
	0.2	2.8	216	500	6.27	0.21
	0.13	2.3	230	600	6.27	0.21
	0.11	1.9	216	750	6.27	0.21
	0.1	1.6	198	900	6.27	0.21
	0.1	1.2	230	1200	6.27	0.21
	0.1	0.93	216	1500	6.27	0.21
	0.1	0.78	198	1800	6.27	0.21
	0.1	0.58	230	2400	6.27	0.21
	0.08	0.47	216	3000	6.27	0.21
	0.06	0.35	172	4000	6.27	0.21
	0.04	0.28	150	5000	6.27	0.21

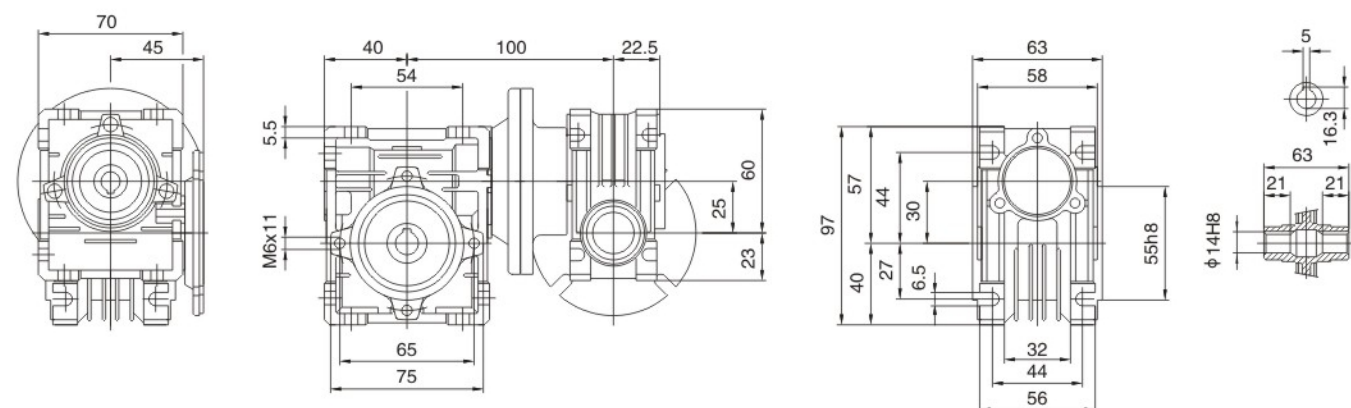
机型号 Model	输入轴 功率 kW	输出转速 N2 (r/min)	输出转矩 M2 (N.m)	传动比 i	输出轴 径向力 kN	输入轴 径向力 kN
40/75	0.4	4.7	390	300	7.38	0.35
	0.3	3.5	360	400	7.38	0.35
	0.21	2.8	320	500	7.38	0.35
	0.2	2.3	390	600	7.38	0.35
	0.2	1.9	390	750	7.38	0.35
	0.14	1.6	390	900	7.38	0.35
	0.11	1.2	360	1200	7.38	0.35
	0.1	0.93	390	1500	7.38	0.35
	0.1	0.78	390	1800	7.38	0.35
	0.1	0.58	360	2400	7.38	0.35
	0.1	0.47	320	3000	7.38	0.35
	0.08	0.35	250	4000	7.38	0.35
	0.06	0.28	230	5000	7.38	0.35
40/90	0.6	4.7	610	300	8.18	0.35
	0.43	3.5	610	400	8.18	0.35
	0.34	2.8	560	500	8.18	0.35
	0.3	2.3	610	600	8.18	0.35
	0.23	1.9	560	750	8.18	0.35
	0.2	1.6	505	900	8.18	0.35
	0.2	1.2	610	1200	8.18	0.35
	0.14	0.93	560	1500	8.18	0.35
	0.11	0.78	505	1800	8.18	0.35
	0.11	0.58	610	2400	8.18	0.35
	0.1	0.47	560	3000	8.18	0.35
	0.1	0.35	460	400	8.18	0.35
	0.1	0.28	410	5000	8.18	0.35
50/110	1.1	4.7	1265	300	10.32	0.49
	0.8	3.5	1185	400	10.32	0.49
	0.61	2.8	1100	500	10.32	0.49
	0.6	2.3	1185	600	10.32	0.49
	0.5	1.9	1265	750	10.32	0.49
	0.43	1.6	1265	900	10.32	0.49
	0.31	1.2	1186	1200	10.32	0.49
	0.3	0.93	1265	1500	10.32	0.49
	0.3	0.78	1265	1800	10.32	0.49
	0.2	0.58	1185	2400	10.32	0.49
	0.15	0.47	1100	3000	10.32	0.49
	0.13	0.35	819	4000	10.32	0.49
	0.1	0.28	746	5000	10.32	0.49

机型号 Model	输入轴 功率 kW	输出转速 N2 (r/min)	输出转矩 M2 (N.m)	传动比 i	输出轴 径向力 kN	输入轴 径向力 kN
63/130	0.8	2.3	1650	600	13.5	0.7
	0.7	1.9	1760	750	13.5	0.7
	0.6	1.6	1760	900	13.5	0.7
	0.4	1.2	1650	1200	13.5	0.7
	0.4	0.93	1760	1500	13.5	0.7
	0.4	0.93	1760	1500	13.5	0.7
	0.3	0.78	1760	1800	13.5	0.7
	0.3	0.58	1650	2400	13.5	0.7
	0.2	0.47	1550	3000	13.5	0.7
	0.1	0.35	1220	4000	13.5	0.7
	0.1	0.28	1100	5000	13.5	0.7

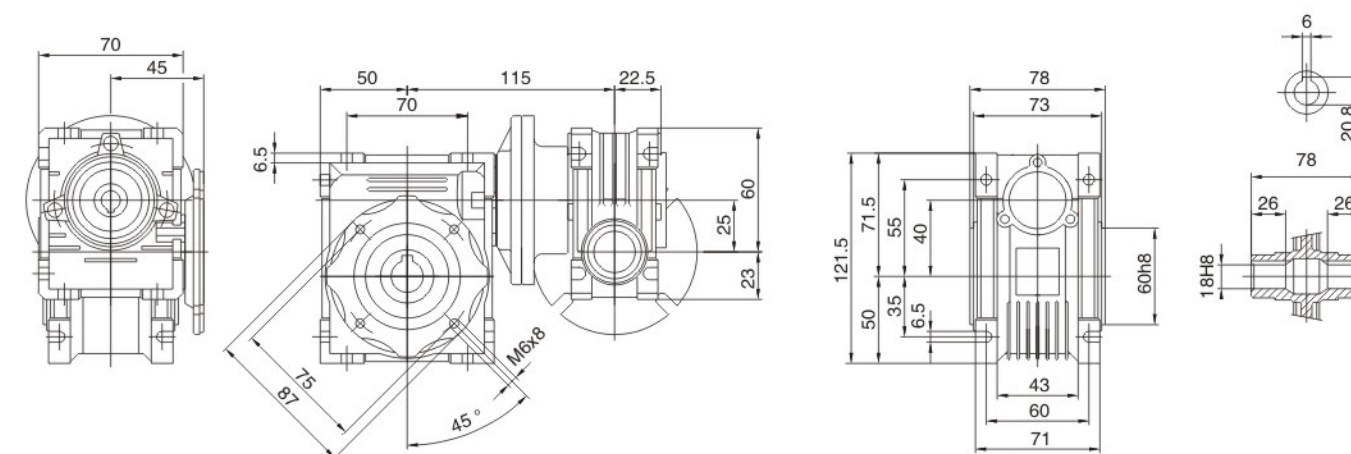
机型号 Model	输入轴 功率 kW	输出转速 N2 (r/min)	输出转矩 M2 (N.m)	传动比 i	输出轴 径向力 kN	输入轴 径向力 kN
63/150	3.4	9.3	2340	150	18	0.7
	2.7	7.0	2340	200	18	0.7
	1.9	5.6	2050	250	18	0.7
	1.9	4.7	2340	300	18	0.7
	1.8	3.5	2670	400	18	0.7
	1.4	2.8	2330	500	18	0.7
	1.3	2.3	2670	600	18	0.7
	1.0	1.9	2330	750	18	0.7
	0.7	1.6	2100	900	18	0.7
	0.7	1.2	2670	1200	18	0.7
	0.4	0.8	2100	1800	18	0.7
	0.5	0.6	2670	2400	18	0.7
	0.3	0.5	2330	3000	18	0.7
	0.2	0.4	1880	4000	18	0.7
	0.2	0.3	1650	5000	18	0.7

NMRV-NMRV外型尺寸 Dimensions

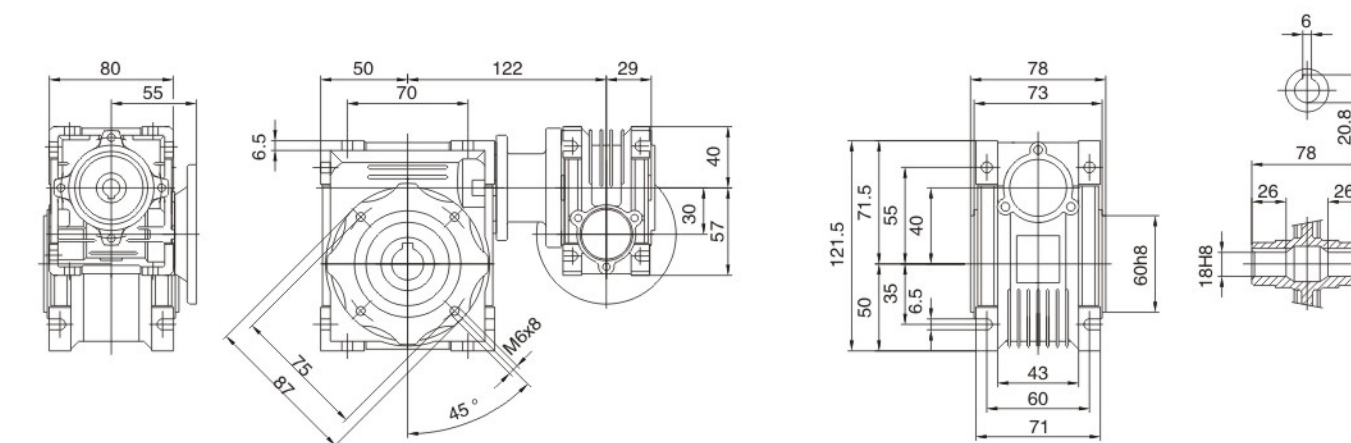
NMRV025-NMRV030



NMRV025-NMRV040

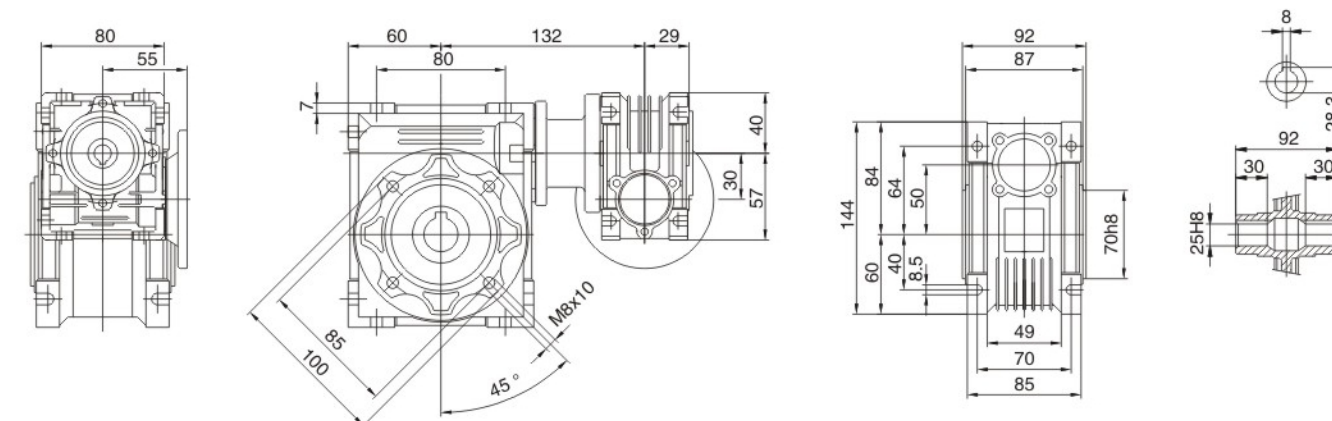


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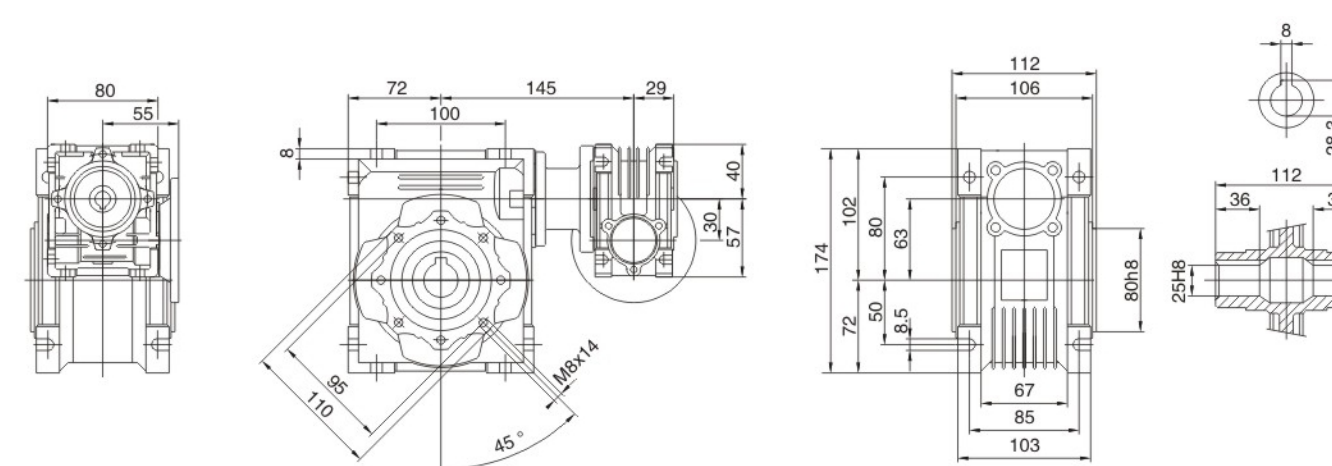


NMRV-NMRV外型尺寸 Dimensions

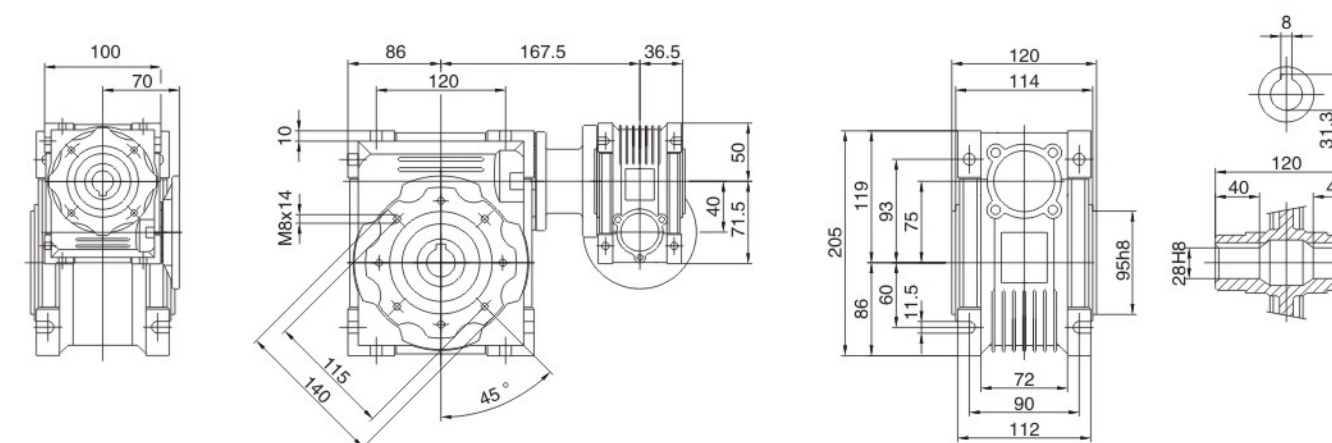
NMRV030-NMRV050



NMRV030-NMRV063

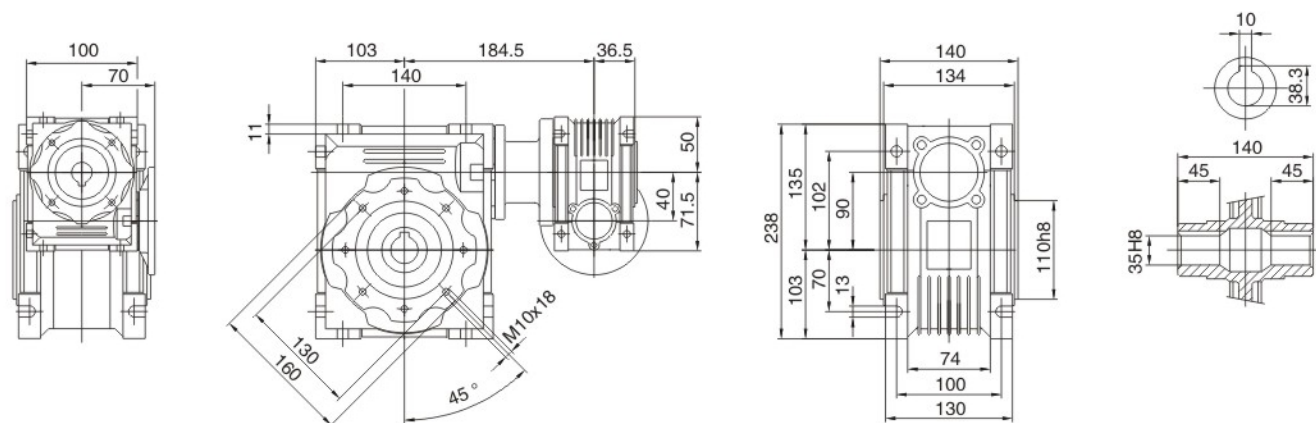


NMRV040-NMRV075

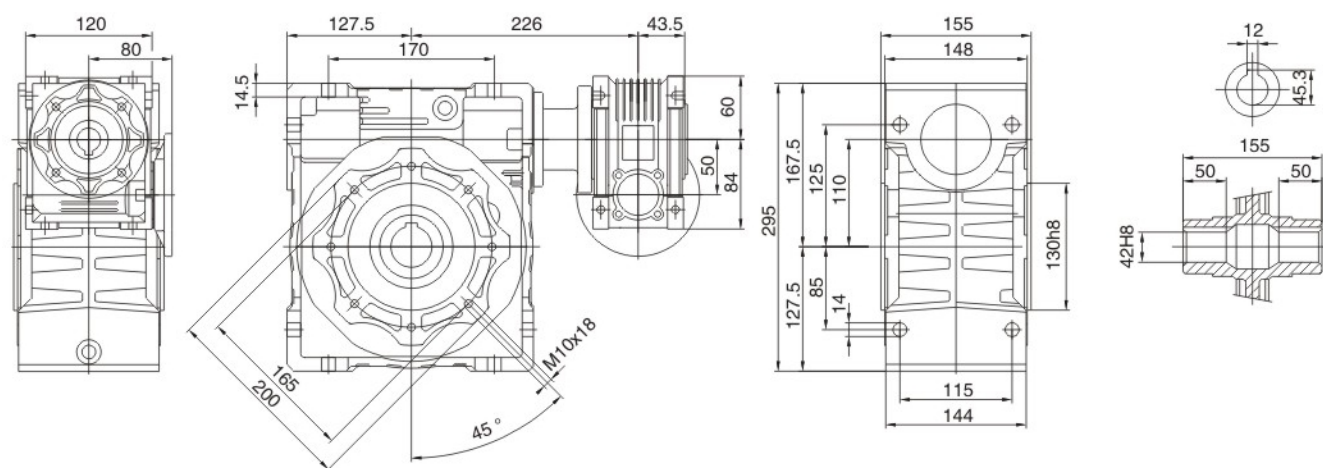


NMRV-NMRV外型尺寸 Dimensions

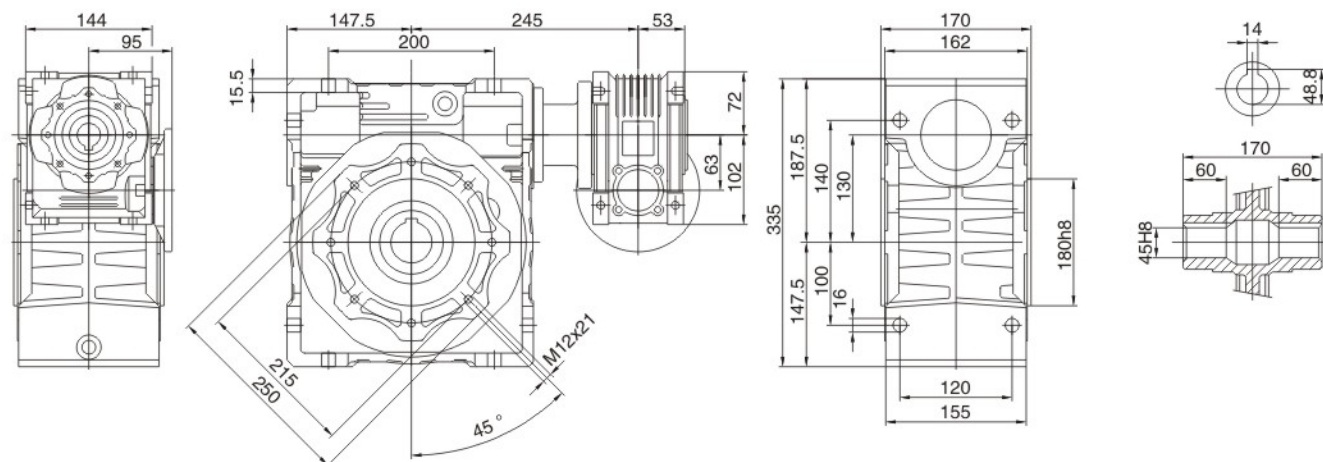
NMRV040-NMRV090



NMRV050-NMRV110

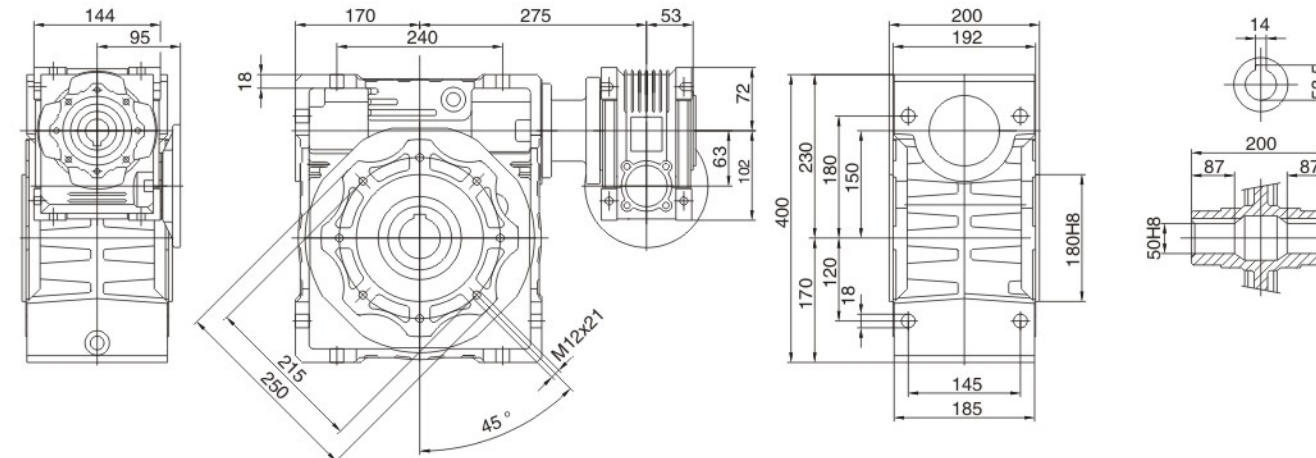


NMRV063-NMRV130

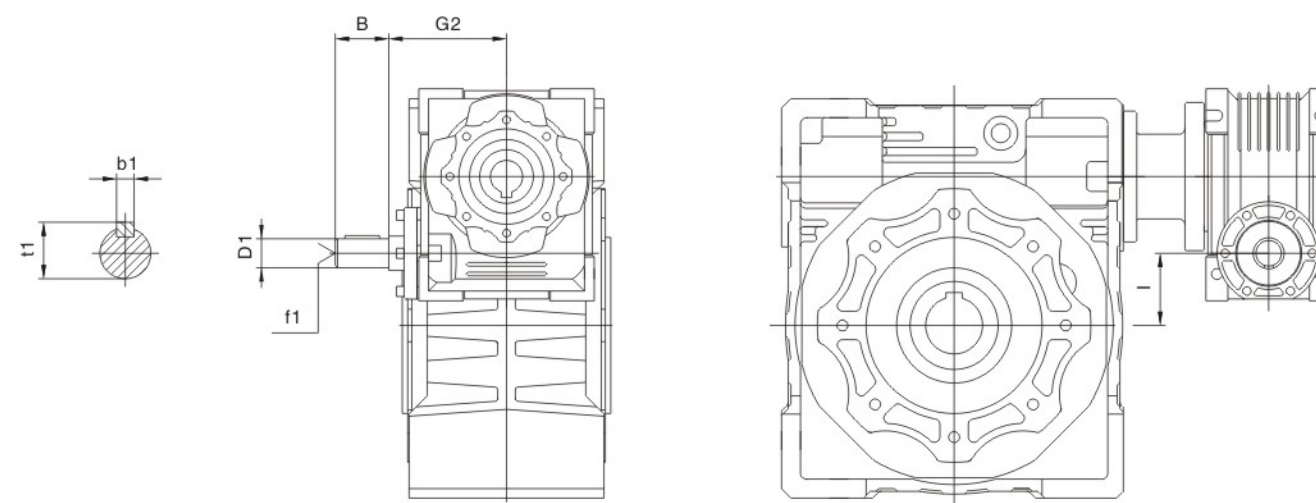


NMRV-NMRV外型尺寸 Dimensions

NMRV063-NMRV150



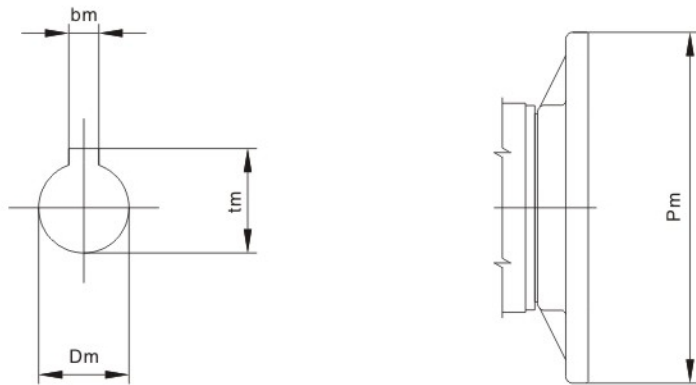
NRV-NMRV外型尺寸 Dimensions



NRV-NMRV	030-040	030-050	030-063	040-075	040-090	050-110	063-130	063-150
B	20	20	20	23	23	30	40	40
D1	9 j6	9 j6	9 j6	11 j6	11 j6	14 j6	19 j6	19 j6
G2	51	51	51	60	60	74	90	90
l	10	20	33	35	50	60	67	87
b1	3	3	3	4	4	5	6	6
f1	-	-	-	-	-	M6	M6	M6
t1	10.2	10.2	10.2	12.5	12.5	16	21.5	21.5

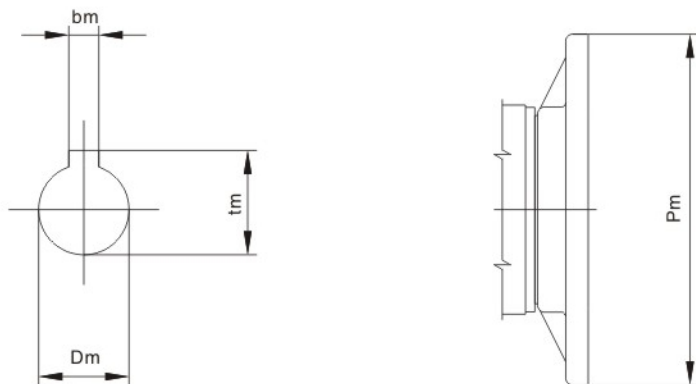
PAM外型尺寸 Dimensions

PAM B5外型尺寸 Dimensions



B5	IEC										
	056	063	071	080	090	100	112	132	160	180	200
Pm	120	140	160	200	200	250	250	300	350	350	400
Dm	9	11	14	19	24	28	28	38	42	48	55
bm	3	4	5	6	8	8	8	10	12	14	16
tm	10.4	12.8	16.3	21.8	27.3	31.3	31.3	41.3	45.3	51.8	59.3

PAM B14外型尺寸 Dimensions



B14	IEC							
	056	063	071	080	090	110	112	132
Pm	80	90	105	120	140	160	160	200
Dm	9	11	14	19	24	28	28	38
bm	3	4	5	6	8	8	8	10
tm	10.4	12.8	16.3	21.8	27.3	31.3	31.3	41.3

油品润滑 Lubricant

润滑油选用表 Lubrication oil chosen table

减速机规格 Reducer size	25-90	110-150	
润滑油类型 Type of lubrication oil	合成润滑油 Complex lubrication oil	矿物润滑油 Mineral lubrication oil	
环境温度℃ Ambient temperature	-25 ~ +50	-5 ~ +40	-15 ~ +25
ISO VG	ISO VG 320	ISO VG 460	ISO VG 220
AGIP	TELium VSF320	BLASIA 460	BLASIA 220
SHELL	TIVELA OIL Sc320	OMALA OIL 460	OMALA OIL220
ESSO	S220	SPARTAN EP460	SPARTAN EP220
MOBIL	GLYGOYLE 30	MOBIL GEAR 634	MOBIL GEAR 630
CASTROL	ALPHASYN PG320	ALPHA MAX 460	ALPHA MAX 220
BP	ENERGOL SG-XP320	ENERGOL GR-XP460	ENERGOL GR-XP220

润滑油注油量 (L) Adding capacity of lubrication oil

规格 Type 安装型式 Installation	025	030	040	050	063	075	090	110	130	150
B3	0.02	0.04	0.08	0.15	0.3	0.55	1	3	4.5	7
B6 B7								2.2	3.3	5.1
B8								2.5	3.5	5.4
V5								3	4.5	7
V6								2.2	3.3	5.1

一般故障及排除方法 Solution and reason for the general faults of reducer

故障类型 Fautit description	故障原因 Reasons	排除方法 Solutions
机温过高 Overheating	负荷超载 润滑油不够 润滑油不良 机壳散热不良 Overloading Insufficient oil Inferior oil Bad rejection of heat of the enclosure	调整负荷或选大机型 加够润滑油 加入合适的润滑油 清除机壳表面灰尘及油渍 Adjust loading or select large unit Fill in adequate oil Fill in proper oil Clean the surface of the enclosure
杂音 Noise	蜗杆、蜗轮啮合不良 蜗轮过度磨损 轴承损坏或间隙太大 润滑油不够 异物进入机内 Poor fit between gear and shaft Worm wheel over-damaged Bearing damaged or clearance too large Insufficient oil Invaded by foreign objects	修整或更换蜗杆、蜗轮 更换蜗轮 更换轴承 加够润滑油 去除异物或换油 Finish the surfaces of worm-gear Replace worm Replace bearing Fill in adequate oil Remove foreign objects and replace oil
蜗轮过度磨损 Worm wheel over-damaged	负荷超载 润滑油不够 润滑油不良 Overloading Insufficient oil Inferior oil	调整负荷或选大机型 加够润滑油 更换合适的润滑油 Adjust loading or select large unit Fill in adequate oil Replace proper oil
漏油 Oil leakage	油封损伤 密封垫损伤 油量过多 油塞松动 油镜损坏 Oil seal damaged Gasket damaged Excess oil Oil filler Loosed Oil-level plug damaged	更换油封 更换密封垫 调整油量 拧紧油塞 更换油镜 Replace oil seal Replace gasket Adjust quantity of oil Tighten oil filler Replace oil-level plug

蜗轮减速机的工作系数 Service factor

减速机的工作系数(f.s.)主要取决于减速机的运作条件，其决定因素为

- 1. 减速机的负荷形式：A-B-C
- 2. 工作时间：小时 / 天(Δ)
- 3. 开机频率：次 / 小时(*)

减速机的三种符合形式：

- 1. A: 均等负荷 $f_a \leq 0.3$
- 2. B: 中等负荷 $f_a \leq 3$
- 3. C: 重量负荷 $f_a \leq 10$

Fa=Je / Jm

Je(kgm²): 在马达轴上发生衰降的惯性矩

Jm(kgm²): 马达惯性矩

注意：fa>10时请与技术服务部联系

The service factor(f.s.)depends on the operating conditions the gearbox is subjected to. Following parameters need to be take to select the right service factor.

- type of load of the operating machine A- B-C
- length of daily operating time: hours/day(Δ)
- start-up frequency: starts/hour (*)

TYPE OF LOAD: A-uniform, $f_a \leq 0.3$

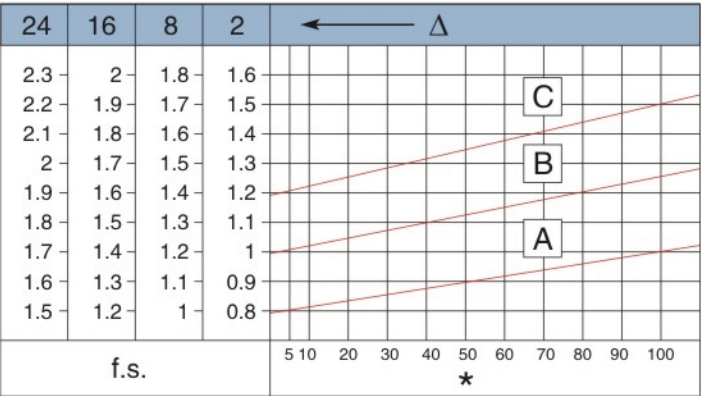
B-moderate shocks, $f_a \leq 3$

C-heavy shocks, $f_a \leq 10$

fa=Jex.Jm

--Jex(kgm²) moment of the external inertia reduced at the drive shaft

--Jm(kgm²) moment of inertia of motor



安装注意事项

- 减速机要平稳安装，避免震动。
- 与机器装配前，请检查减速机的输出轴的旋转方向是否正确。
- 在减速机放置时间长达4-6个月情况下，应检查密封圈是否因不浸润在润滑油中而与轴发生粘连或失去弹性，必要时更换密封圈。
- 安装空心轴时，应采用专用力矩扳手。如果无该条件时，用户可自行选用专用工具，但应确保轴向不受力，减速机可自由移动。
- 减速机应避免受日光直射和雨淋。
- 确保通风条件良好。
- 工作环境温度低于-5° 或高与40° 时，请咨询技术服务部。
- 皮带盘，齿轮，联轴器，轴等通过特殊螺纹孔装于实心轴或空心轴，该螺纹孔可防止运作时损伤轴承和机件表面，应对机件表面作适当润滑，以防锈蚀和卡塞。
- 橡胶件和透气孔不可上油漆。
- 安装完毕后，取出油孔上的封口栓塞，换上透气栓塞。(透气栓应向上)
- 检查油位高度。
- 如果减速机不连接马达时，请参考以下注意事项以确保正确连接：安装于B5, B14
- 检查轴与电机法兰之公差是否符合基本标准。
- 清洗轴、中心孔和法兰表面的污迹及油漆。
- 安装时避免减速机受力。
- 检查马达键槽的位置和偏差。
- 用润滑油涂抹轴的表面，以防生锈或卡塞。
- 开机时应分级起动，不能满负荷起动。
- 装配在电机下方的机件及材料易于受潮，应采取适当的防范措施。

Installation notes

- The mounting on the machine must be stable to avoid any vibration.
- Check the correct direction of rotation of the reduction unit output shaft before fitting the unit to the machine.
- In the case of particularly lengthy periods of storage (4–6 months) if the oil seal is not immersed in the lubricant inside recommended to change it since the rubber could stick to the shaft or even has lost the elasticity it needs to function properly.
- For a shaft mounting, for reduction units with a hollow output shafts, use the torque arms motion clinic can supply. If it is make sure that the constraint is axially free and with such as play as to ensure free movement to the reduction unit.
- Whenever possible, protect the reduction unit against solar radiation and bad weather.
- Ensure the motor cools correctly by assuring good passage of air from the fan side.
- In the case of ambient temperatures $<-5^{\circ}\text{C}$ and $>+40^{\circ}\text{C}$ contact motion clinic.
- The various parts (pulleys, gear wheels, couplings, shafts, etc.) must be mounted on the solid or hollow shafts using special holes or other systems that anyhow ensure correct operation with out risking damage to the bearings or external parts of the unit
- Painting must definitely not go over rubber parts and the holes on the breather plugs, if there are any.
- Taking out the seal embolism of the oil hole.
- Check the height of the oil level.
- Supposing the gear unit have not coupled with the motor, please pay attention to the following items to make sure rightly connection. Mounting to B5,B1
- Check whether the tolerance between the shaft and motor flange fit for the essential standard.
- Washing the dirt and the paint on the surfaces of the shaft, center bore and the flange.
- Mounting avoid the gear unit incur strength .
- Check the position and the deviation of the motor keyslot.
- Lubricate the surfaces in contact to avoid seizure or oxidation.
- Starting must take place gradually, without immediately applying the maximum load.
- When there are parts objects or materials under the motor drive that can be damaged by even limited spillage of oil, special should be fitted.

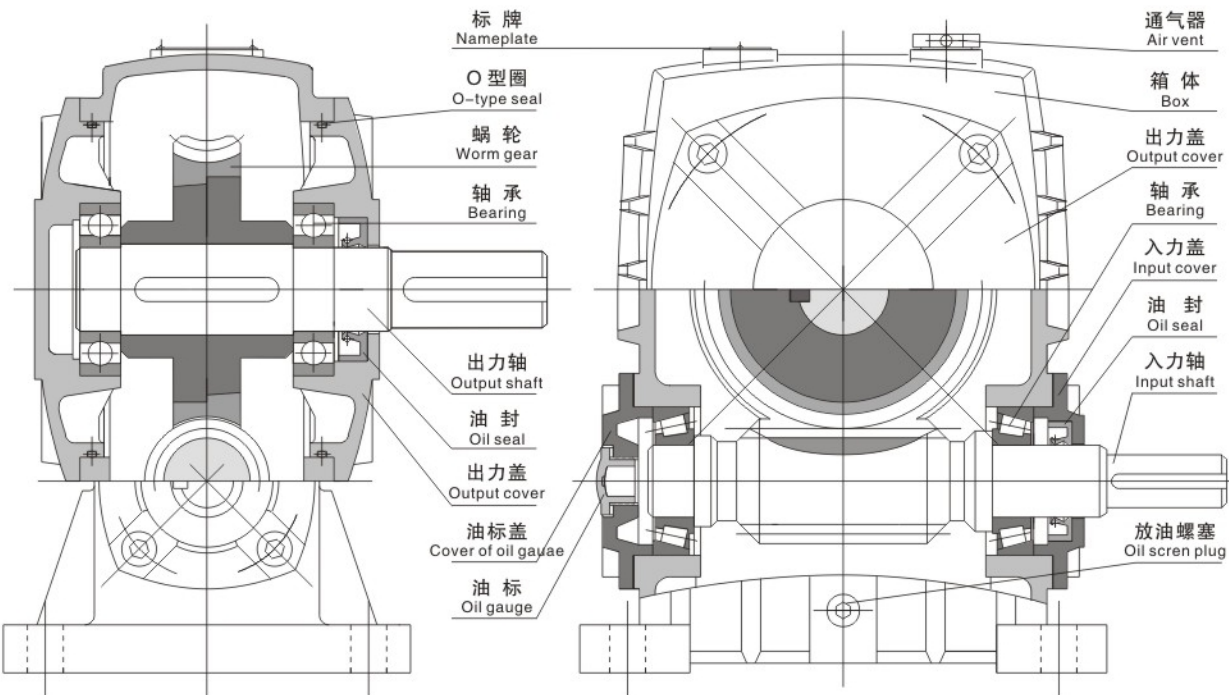
WP系列蜗轮蜗杆减速机 WP Worm Gear Speed Reducer

产品图片 Products picture





产品结构图 Product structural drawing

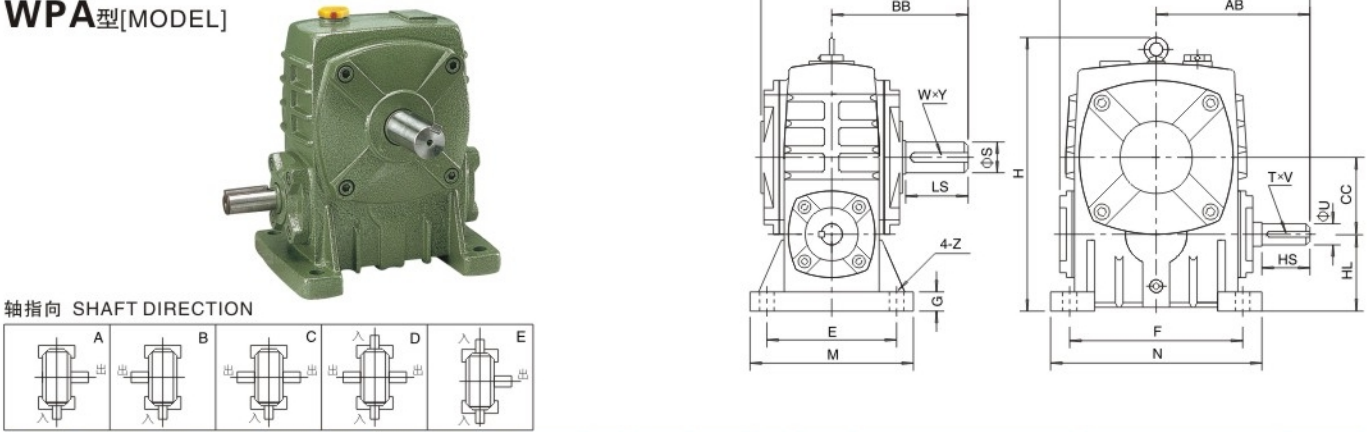


型号及表示法 Model and structurere table

W P W E D K A 50/80 - 600 - B	
W	产品名称: W - 蜗杆减速机。 Product name: W-worm speed reducer
P	箱体结构: P - 整体, D - 分体。 Box structure: P-whole, D-separate
W	箱体型式: W - 万能型, 无代码 - 基本型。 Box model: W-universal, Non-code-basic
E	整机结构: E - 双级, EE - 多级, 无代码 - 基本型。 Unit structure: E-double, EE-multistage, Non-code-basic
D	输入轴联接方式: D - 带电机法兰, 无代码 - 基本型。 Connector of input shaft: D-with motor frange, Non-code-basic
K	输出轴结构: K - 中空输出轴, 无代码 - 基本型。 Structure of output shaft: K-hollow, Non-code-basic
A	输出、输入轴置式: A-入轴在下 S-入轴在上, O-出轴向上 X-出轴向下, Z-入轴向上 V-入轴向下, 无代码-万能型。 Arrangement of input or output shaft: A-Input shaft is below, S-Input shaft is above, O-Output shaft is upward, X-Output shaft is downward, Z-Input shaft is upward, V-Input shaft is downward, Non-code-universal
50/80	规格: 以中心距表示 60/100。 Size: Signed by centre distance 60/100
600	传动比: 800。 Ratio: 800
B	轴指向: B。 Shaft direction: B

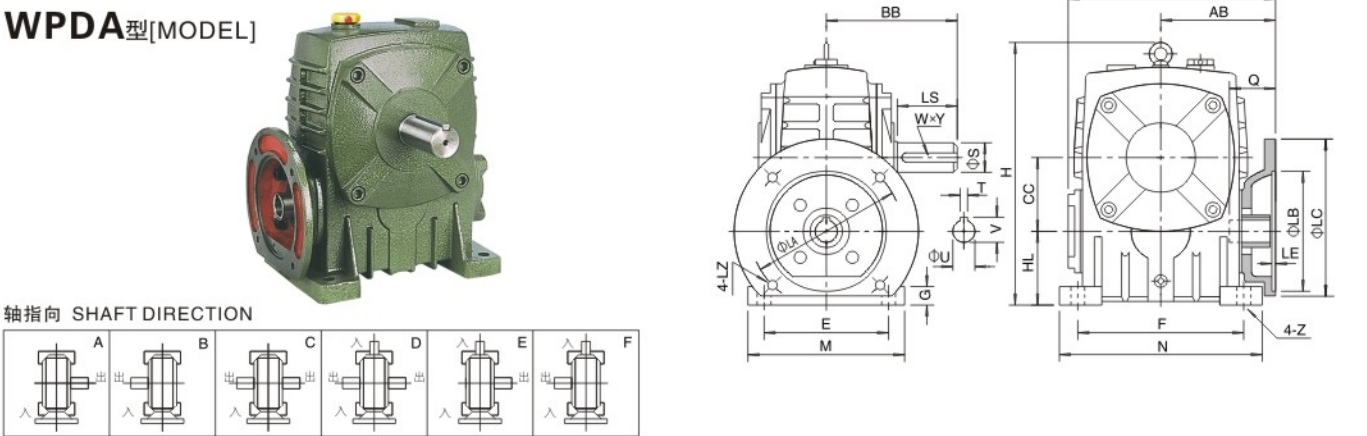
安装尺寸 Dimensions of outline installation

WPA型[MODEL]



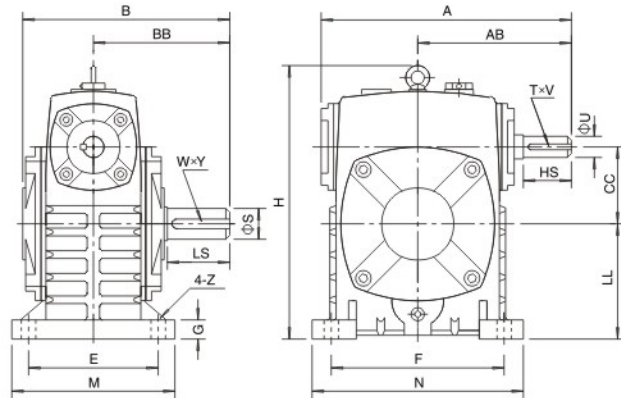
型号 Size	传动比 Ratio	A	AB	B	BB	CC	H	HL	M	N	E	F	G	Z	输入轴 Input shaft			输出轴 Output shaft			重量 Weight(kg)
		HS	U	T×V	LS	S	W×Y														
40	1/10	143	87	114	74	40	138	40	90	100	70	80	13	10	25	12	4x2.5	28	14	5x3	4
50		175	107	150	97	50	173	50	120	140	95	110	15	12	30	12	4x2.5	40	17	5x3	7
60		198	122	168	112	60	204	60	130	150	105	120	20	12	40	15	5x3	50	22	6x3.5	10
70		231	140	194	131	70	236	70	150	190	115	150	20	15	40	18	6x3.5	60	28	8x4	15
80	1/15	261	160	214	142	80	268	80	170	220	135	180	20	15	50	22	6x3.5	65	32	10x5	20
100	1/20	322	190	254	169	100	329	100	190	270	155	220	25	15	50	25	8x4	75	38	10x5	35
120	1/25	381	229	282	190	120	430	120	230	320	180	260	30	18	65	30	8x4	85	45	14x5.5	60
135	1/30	433	260	317	210	135	480	135	250	350	200	290	30	18	75	35	10x5	95	55	16x6	80
147	1/40	439	264	324	212	147	501	123	250	350	200	280	32	18	80	35	10x5	95	55	16x6	90
155	1/50	504	302	382	252	155	531	135	275	390	220	320	35	21	85	40	12x5	110	60	18x7	110
175	1/60	545	325	402	262	175	600	160	310	430	250	350	40	21	85	45	14x5.5	110	65	18x7	150
200		587	350	467	305	200	667	175	360	480	290	390	40	24	95	50	14x5.5	125	70	20x7.5	215
250		705	420	552	360	250	800	200	460	560	380	480	45	28	110	60	18x7	155	90	25x9	360

WPDA型[MODEL]

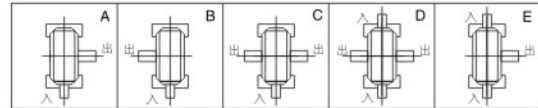


型号 Size	入功率 Input(kw)	传动比 Ratio	A	AB	BB	CC	H	HL	M	N	E	F	G	Z	电机法兰 Flange					入力孔 Input hole			输出轴 Output shaft			重量 Weight(kg)
															LA	LB	LC	LE	LZ	Q	U	T×V	LS	S	W×Y	
50	0.18	1/10 1/15 1/20 1/25 1/30 1/40 1/50 1/60	151	83	97	50	176	50	120	140	95	110	15	12	115	95	140	4	M8	31	11	4x12.8	40	17	5x3	8
60	0.37		167	91	112	60	204	60	130	150	105	120	20	12	130	110	160	4	M8	33	14	5x16.3	50	22	6x3.5	11
70	0.75		200	109	131	70	236	70	150	190	115	150	20	15	130	110	160	4	M8	40	14	5x16.3	60	28	8x4	17
	0.75		202	111	131	70	236	70	150	190	115	150	20	15	165	130	200	4	M10	42	19	6x21.8	60	28	8x4	17
80	1.5		225	125	142	80	268	80	170	220	135	180	20	15	165	130	200	4.5	M10	48	19	6x21.8	65	32	10x5	22
100	3.0		280	148	169	100	336	100	190	270	155	220	25	15	165	130	200	4.5	M10	52	24	8x27.3	75	38	10x5	38
120	4.0		333	181	190	120	430	120	230	320	180	260	30	18	215	180	250	5	M12	63	28	8x31.3	85	45	14x5.5	64
135	5.5		375	202	210	135	480	135	250	350	200	290	30	18	215	180	250	5	M12	63	28	8x31.3	95	55	16x6	85
147	7.5		380	204	212	147	501	123	250	350	200	280	32	18	215	180	250	5	M12	63	28	8x31.3	95	55	16x6	96
155	11.0		425	224	252	155	531	135	275	390	220	320	35	21	215	180	250	5	M12	63	28	8x31.3	110	60	18x7	118
	11.0	448	247	262	155	531	135	275	390	220	320	35	21	265	230	300	5	M12	83	38	10x41.3	110	60	18x7	118	
175	15.0	481	262	262	175	600	160	310	430	250	350	40	21	265	230	300	5	M12	83	38	10x41.3	110	65	18x7	165	
	15.0	516	258	305	200	666	175	360	480	290	390	40	24	265	230	300	5	M12	83	38	10x41.3	125	70	20x7.5	236	
200		543	285	305	200	666	175	360	480	290	390	40	24	300	250	350	6	M16	114	42	12x45.3	125	70	20x7.5	236	
250		615	330	360	250	800	200	460	560	380	480	45	28	300	250	350	6	M16	114	42	12x45.3	155	90	25x9	396	

WPS型[MODEL]

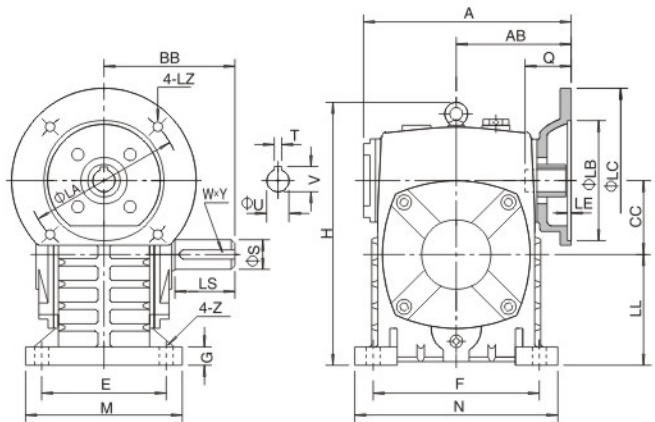


轴指向 SHAFT DIRECTION

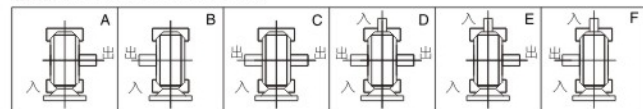


型号 Size	传动比 Ratio	A	AB	B	BB	CC	H	LL	M	N	E	F	G	Z	输入轴 Input shaft			输出轴 Output shaft			重量 Weight(kg)
															HS	U	T x V	LS	S	W x Y	
40	1/10	143	87	114	74	40	141	60	90	100	70	80	13	10	25	12	4x2.5	28	14	5x3	4
50		175	107	150	97	50	180	80	120	140	95	110	15	12	30	12	4x2.5	40	17	5x3	7
60		198	122	168	112	60	207	90	130	150	105	120	20	12	40	15	5x3	50	22	6x3.5	10
70		231	140	194	131	70	238	105	150	190	115	150	20	15	40	18	6x3.5	60	28	8x4	15
80		261	160	214	142	80	270	120	170	220	135	180	20	15	50	22	6x3.5	65	32	10x5	20
100	1/20	322	190	254	169	100	331	150	190	270	155	220	25	15	50	25	8x4	75	38	10x5	35
120	1/25	381	229	282	190	120	423	180	230	320	180	260	30	18	65	30	8x4	85	45	14x5.5	60
135	1/30	433	260	317	210	135	482	215	250	350	200	290	30	18	75	35	10x5	95	55	16x6	80
147	1/40	439	264	324	212	147	495	203	250	350	200	280	32	18	80	35	10x5	95	55	16x6	90
155	1/50	504	302	382	252	155	541	235	275	390	220	320	35	21	85	40	12x5	110	60	18x7	110
175	1/60	545	325	402	262	175	594	260	310	430	250	350	40	21	85	45	14x5.5	110	65	18x7	150
200		587	350	467	305	200	677	290	360	480	290	390	40	24	95	50	14x5.5	125	70	20x7.5	215
250		705	420	552	360	250	824	350	460	560	380	480	45	28	110	60	18x7	155	90	25x9	360

WPDS型[MODEL]

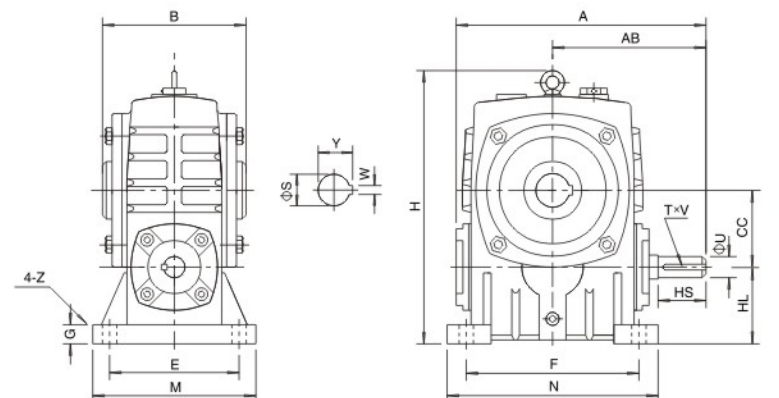


轴指向 SHAFT DIRECTION

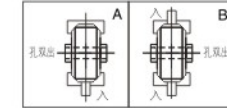


型号 Size	入功率 Input(kw)	传动比 Ratio	A	AB	BB	CC	H	LL	M	N	E	F	G	Z	电机法兰 Flange					入力孔 Input hole			输出轴 Output shaft			重量 Weight(kg)
															LA	LB	LC	LE	LZ	Q	U	T x V	LS	S	W x Y	
50	0.18	1/10	151	83	97	50	180	80	120	140	95	110	15	12	115	95	140	4	M8	31	11	4x12.8	40	17	5x3	8
60	0.37		167	91	112	60	207	90	130	150	105	120	20	12	130	110	160	4	M8	33	14	5x16.3	50	22	6x3.5	11
70	0.37		200	109	131	70	238	105	150	190	115	150	20	15	130	110	160	4	M8	40	14	5x16.3	60	28	8x4	17
	0.75		202	111																						
80	0.75		225	125	142	80	273	120	170	220	135	180	20	15	165	130	200	4.5	M10	42	19	6x21.8	65	32	10x5	22
100	1.5	280	148	169	100	334	150	190	270	155	220	25	15	165	130	200	4.5	M10	52	24	8x27.3					
120	2.2	1/15	333	181	190	120	423	180	230	320	180	260	30	18	215	180	250	5	M12	63	28	8x31.3	85	45	14x5.5	64
135	3.0	1/20	375	202	210	135	482	215	250	350	200	290	30	18	215	180	250	5	M12	63	28	8x31.3	95	55	16x6	85
	4.0																									
147	3.0	1/30	380	204	212	147	495	203	250	350	200	280	32	18	215	180	250	5	M12	63	28	8x31.3	95	55	16x6	96
	4.0																									
155	4.0	1/50	425	224	252	155	541	235	275	390	220	320	35	21	215	180	250	5	M12	63	28	8x31.3	110	60	18x7	118
	5.5	448	247	265											230	300	5	M12	83	38	10x41.3					
175	5.5	1/60	481	262	262	175	600	260	310	430	250	350	40	21	265	230	300	5	M12	83	38	10x41.3	110	65	18x7	165
	7.5		516	258	305	200	677	290	360	480	290	390	40	24	265	230	300	5	M12	83	38	10x41.3	125	70	20x7.5	236
11.0	543	285	300	250											350	6	M16	114	42	12x45.3						
250	11.0		615	330	360	250	824	350	460	560	380	480	45	28	300	250	350	6	M16	114	42	12x45.3	155	90	25x9	396
	15.0																									

WPKA型[MODEL]

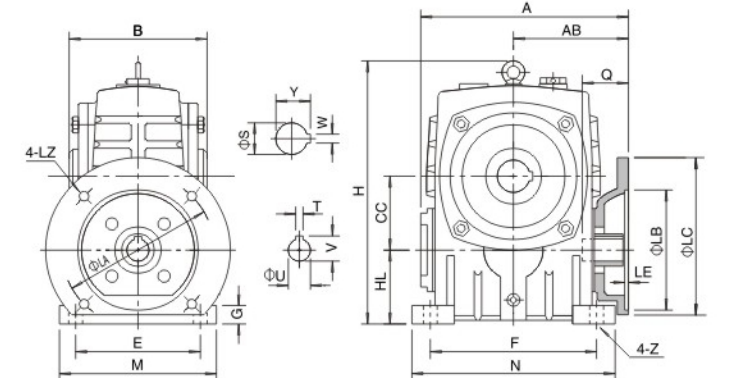


轴指向 SHAFT DIRECTION

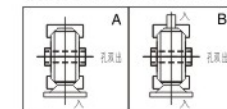


型号 Size	传动比 Ratio	A	AB	B	CC	H	LL	M	N	E	F	G	Z	输入轴 Input shaft			输出轴 Output shaft			重量 Weight(kg)
														HS	U	T x V	S	W x Y		
40	1/10	143	87	90	40	138	40	90	100	70	80	13	10	25	12	4x2.5	16	5x18.3	4	
50		175	107	110	50	173	50	120	140	95	110	15	12	30	12	4x2.5	20	6x22.8	7	
60		198	122	120	60	204	60	130	150	105	120	20	12	40	15	5x3	25	8x28.3	10.5	
70		231	140	132	70	236	70	150	190	115	150	20	15	40	18	6x3.5	30	8x33.3	14.5	
80		261	160	150	80	268	80	170	220	135	180	20	15	50	22	6x3.5	35	10x38.3	22	
100	1/20	322	190	174	100	329	100	190	270	155	220	25	15	50	25	8x4	40	12x43.3	36	
120	1/25	381	229	180	120	430	120	230	320	180	260	30	18	65	30	8x4	45	14x48.8	63	
135	1/30	433	260	214	135	480	135	250	350	200	290	30	18	75	35	10x5	60	18x64.4	80	
147	1/40	439	264	220	147	501	123	250	350	200	280	32	18	80	35	10x5	60	18x64.4	95	
155	1/50	504	302	256	155	531	135	275	390	220	320	35	21	85	40	12x5	70	20x74.9	114	
175	1/60	545	325	282	175	600	160	310	430	250	350	40	21	85	45	14x5.5	80	22x85.4	150	
200		587	350	324	200	667	175	360	480	290	390	40	24	95	50	14x5.5	85	22x90.4	218	
250		705	420	400	250	800	200	460	560	380	480	45	28	110	60	18x7	110	28x116.4	360	

WPDKA型[MODEL]

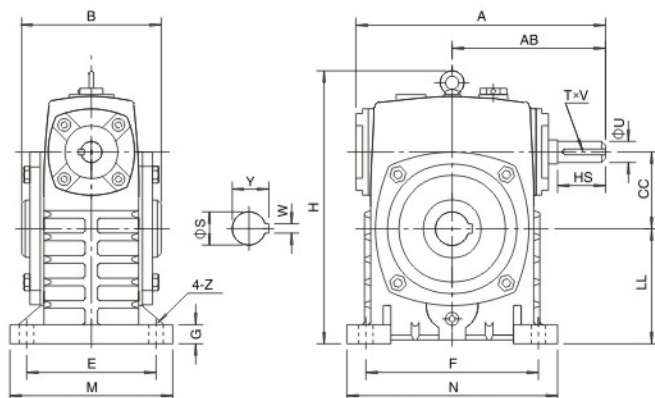


轴指向 SHAFT DIRECTION

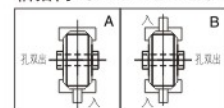


型号 Size	入功率 Input(kw)	传动比 Ratio	A	AB	B	CC	H	LL	M	N	E	F	G	Z	电机法兰 Flange					入力孔 Input hole			输出轴 Output shaft		重量 Weight(kg)
															LA	LB	LC	LE	LZ	Q	U	T×V	S	W×Y	
50	0.18	1/10	151	83	100	50	176	80	120	140	95	110	15	12	115	95	140	4	M8	31	11	4x12.8	20	6x22.8	8
60	0.37		167	91	110	60	202	90	130	150	105	120	20	12	130	110	160	4	M8	33	14	5x16.3	25	8x28.3	10.5
70	0.37		200	109	126	70	238	105	150	190	115	150	20	15	130	110	160	4	M8	40	14	5x16.3	20	8x33.3	17
	0.75		202	111											165	130	200		M10	42	19	6x21.8			
80	0.75		225	125	136	80	273	120	170	220	135	180	20	15	165	130	200	4.5	M10	48	19	6x21.8	35	10x38.3	26
100	1.5	1/15	280	148	160	100	334	150	190	270	155	220	25	15	165	130	200	4.5	M10	52	24	8x27.3	40	12x43.3	38
	2.2		333	181	180	120	423	180	230	320	180	260	30	18	215	180	250	5	M12	63	28	8x31.3	45	14x48.8	60
3.0	1/20																								
120	3.0	1/25	375	202	204	135	482	215	250	350	200	290	30	18	215	180	250	5	M12	63	28	8x31.3	60	18x64.4	85
	4.0																								
135	4.0	1/40	425	224	250	155	541	235	275	390	220	320	35	21	215	180	250	5	M12	63	28	8x31.3	70	20x74.9	120
	5.5		1/50	265											230	300	5	M12	83	38	10x41.3				
155	5.5	1/50	448	247	280	175	600	260	310	430	250	350	40	21	265	230	300	5	M12	83	38	10x41.3	80	22x85.4	150
	7.5		481	262											324	200	666	175	360	480	290	390	40	24	265
200	7.5	1/60	516	258	324	200	666	175	360	480	290	390	40	24	265	230	300	5	M12	83	38	10x41.3	90	28x116.4	396
	11.0		543	285											324	200	666	175	360	480	290	390			
250	11.0	1/60	615	330	380	250	800	200	460	560	380	480	45	28	300	250	350	6	M16	114	42	12x45.3	90	28x116.4	396
	15.0																								

WPKS型[MODEL]

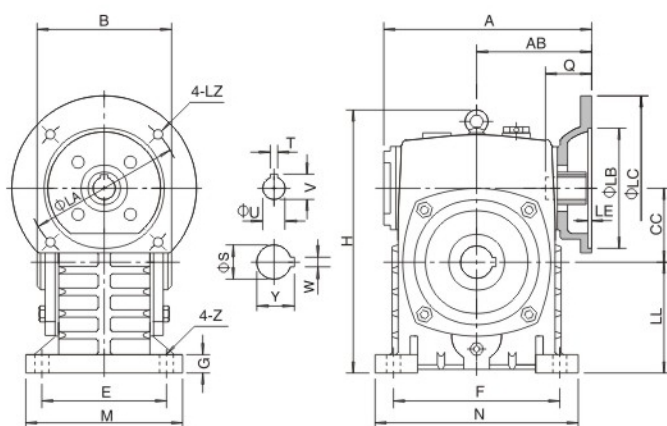


轴指向 SHAFT DIRECTION

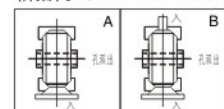


型号 Size	传动比 Ratio	A	AB	B	CC	H	HL	M	N	E	F	G	Z	输入轴 Input shaft			输出轴 Output shaft		重量 Weight(kg)
														HS	U	T×V	S	W×Y	
40	1/10 1/15 1/20 1/25 1/30 1/40 1/50 1/60	143	87	90	40	138	40	90	100	70	80	13	10	25	12	4x2.5	16	5x18.3	4
50		175	107	110	50	173	50	120	140	95	110	15	12	30	12	4x2.5	20	6x22.8	7
60		198	122	120	60	204	60	130	150	105	120	20	12	40	15	5x3	25	8x28.3	10.5
70		231	140	132	70	236	70	150	190	115	150	20	15	40	18	6x3.5	30	8x33.3	14.5
80		261	160	150	80	268	80	170	220	135	180	20	15	50	22	6x3.5	35	10x38.3	22
100		322	190	174	100	329	100	190	270	155	220	25	15	50	25	8x4	40	12x43.3	36
120		381	229	180	120	430	120	230	320	180	260	30	18	65	30	8x4	45	14x48.8	63
135		433	260	214	135	480	135	250	350	200	290	30	18	75	35	10x5	60	18x64.4	80
147		439	264	220	147	501	123	250	350	200	280	32	18	80	35	10x5	60	18x64.4	95
155		504	302	256	155	531	135	275	390	220	320	35	21	85	40	12x5	70	20x74.9	114
175		545	325	282	175	600	160	310	430	250	350	40	21	85	45	14x5.5	80	22x85.4	150
200		587	350	324	200	667	175	360	480	290	390	40	24	95	50	14x5.5	85	22x90.4	218
250		705	420	400	250	800	200	460	560	380	480	45	28	110	60	18x7	110	28x116.4	360

WPKS型[MODEL]



轴指向 SHAFT DIRECTION

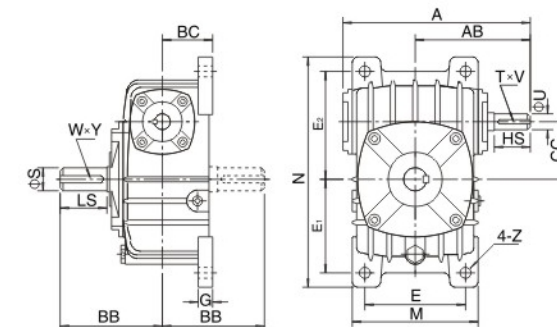


型号 Size	输入功率 Input(kw)	传动比 Ratio	A	AB	B	CC	H	LL	M	N	E	F	G	Z	电机法兰 Flange					入力孔 Input hole			输出轴 Output shaft		重量 Weight(kg)
															LA	LB	LC	LE	LZ	Q	U	T×V	S	W×Y	
50	0.18	1/10 1/15 1/20 1/25 1/30 1/40 1/50 1/60	151	83	100	50	176	80	120	140	95	110	15	12	115	95	140	4	M8	31	11	4x12.8	20	6x22.8	8
60	0.37		167	91	110	60	202	90	130	150	105	120	20	12	130	110	160	4	M8	33	14	5x16.3	25	8x28.3	10.5
70	0.37 0.75		200	109	126	70	238	105	150	190	115	150	20	15	130	110	160	4	M8	40	14	5x16.3	20	8x33.3	17
80	0.75		202	111	126	70	238	105	150	190	115	150	20	15	165	130	200	4	M10	42	19	6x21.8	35	10x38.3	26
100	1.5		225	125	136	80	273	120	170	220	135	180	20	15	165	130	200	4.5	M10	48	19	6x21.8	40	12x43.3	38
120	2.2 3.0		280	148	160	100	334	150	190	270	155	220	25	15	165	130	200	4.5	M10	52	24	8x27.3	40	12x43.3	38
135	3.0		333	181	180	120	423	180	230	320	180	260	30	18	215	180	250	5	M12	63	28	8x31.3	45	14x48.8	60
147	4.0		375	202	204	135	482	215	250	350	200	290	30	18	215	180	250	5	M12	63	28	8x31.3	60	18x64.4	85
155	4.0 5.5		425	224	250	155	541	235	275	390	220	320	35	21	215	180	250	5	M12	63	28	8x31.3	70	20x74.9	120
175	5.5		448	247	250	155	541	235	275	390	220	320	35	21	265	230	300	5	M12	83	38	10x41.3	80	22x85.4	150
200	7.5		481	262	280	175	600	260	310	430	250	350	40	21	265	230	300	5	M12	83	38	10x41.3	70	22x90.4	236
250	11.0 15.0		516	258	324	200	666	175	360	480	290	390	40	24	265	230	300	5	M12	83	38	10x41.3	90	28x116.4	396
			543	285	324	200	666	175	360	480	290	390	40	24	300	250	350	6	M16	114	42	12x45.3			
			615	330	380	250	800	200	460	560	380	480	45	28	300	250	350	6	M16	114	42	12x45.3			

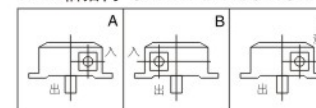
WPX型[MODEL]



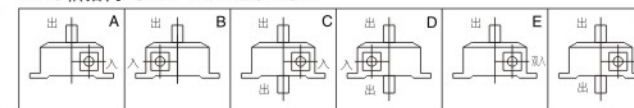
WPO型[MODEL]



WPX轴指向 SHAFT DIRECTION



WPO轴指向 SHAFT DIRECTION

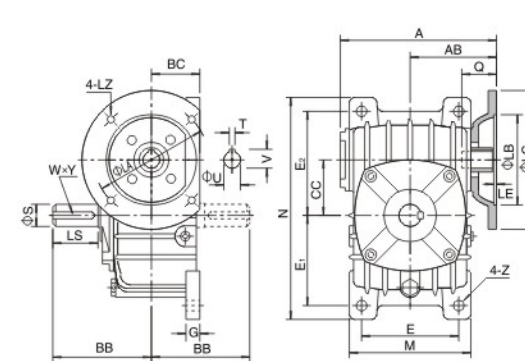


型号 Size	传动比 Ratio	A	AB	BB	BC	CC	M	N	E	E ₁	E ₂	G	Z	输入轴 Input shaft			输出轴 Output shaft			重量 Weight(kg)
		HS	U	T×V	LS	S	W×Y													
40	1/10	143	87	74	45	40	94	184	70	74	86	10	10	25	12	4x2.5	28	14	5x3	5
50		175	107	97	50	50	116	220	90	93	102	15	12	30	12	4x2.5	40	17	5x3	6
60		198	122	112	55	60	126	260	100	105	120	20	12	40	15	5x3	50	22	6x3.5	10
70		231	140	131	65	70	156	295	120	120	135	20	15	40	18	6x3.5	60	28	8x4	15
80	1/15	261	160	142	70	80	175	320	140	130	150	20	15	50	22	6x3.5	65	32	10x5	20
100	1/20	322	190	169	90	100	224	375	190	155	180	26	15	50	25	8x4	75	38	10x5	35
120	1/25	381	229	190	100	120	266	450	220	185	215	30	18	65	30	8x4	85	45	14x5.5	50
135	1/30	433	260	210	110	135	306	495	260	210	235	30	18	75	35	10x5	95	55	16x6	75
147	1/40	439	264	212	113	147	310	556	250	254	254	32	18	80	35	10x5	95	55	16x6	90
155	1/50	504	302	252	140	155	350	590	290	245	295	35	21	85	40	12x5	110	60	18x7	115
175	1/60	545	325	262	150	175	394	640	320	267	323	40	21	85	45	14x5.5	110	65	18x7	140
200		587	350	305	175	200	440	710	370	290	360	40	24	95	50	14x5.5	125	70	20x7.5	200
250		705	420	360	200	250	510	860	440	350	440	45	28	110	60	18x7	155	90	25x9	340

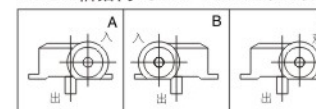
WPDX型[MODEL]



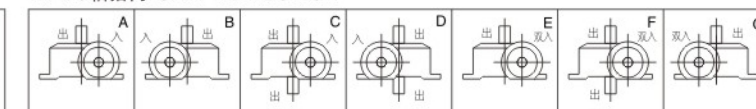
WPDO型[MODEL]



WPDX轴指向 SHAFT DIRECTION

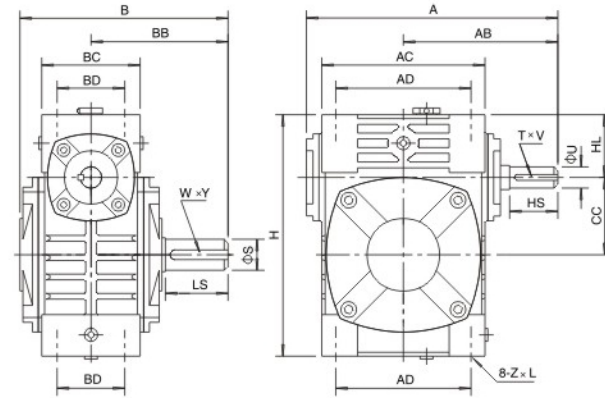


WPDO轴指向 SHAFT DIRECTION

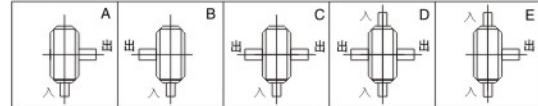


型号 Size	入功率 Input(kw)	传动比 Ratio	A	AB	BB	BC	CC	M	N	E	E ₁	E ₂	G	Z	电机法兰 Flange					入力孔 Input hole			输出轴 Output shaft			重量 Weight(kg)	
			LA	LB	LC	LE	LZ	Q	U	T×V	LS	S	W×Y														
50	0.18	1/10	151	83	97	50	50	116	220	90	93	102	15	12	115	95	140	4	M8	31	11	4x12.8	40	17	5x3	8	
60	0.37		167	91	112	55	60	126	260	100	105	120	20	12	130	110	160	4	M8	33	14	5x16.3	50	22	6x3.5	11	
70	0.37		200	109	131	65	70	156	295	120	120	135	20	15	130	110	160	4	M8	40	14	5x16.3	60	28	8x4	17	
	0.75		202	111	131	65	70	156	295	120	120	135	20	15	165	130	200	4	M10	42	19	6x21.8					
80	0.75		225	125	142	70	80	175	320	140	130	150	20	15	165	130	200	4.5	M10	48	19	6x21.8	65	32	10x5	22	
	1.5		280	148	169	90	100	224	375	190	155	180	26	15	165	130	200	4.5	M10	52	24	8x27.3					
100	1.5		1/15	333	181	190	100	120	266	450	220	185	215	30	18	215	180	250	5	M12	63	28	8x31.3	85	45	14x5.5	54
120	2.2		1/20	375	202	210	110	135	306	495	260	210	235	30	18	215	180	250	5	M12	63	28	8x31.3	95	55	16x6	80
	3.0																										
135	3.0		1/25	380	204	212	113	147	310	556	250	254	254	32	18	215	180	250	5	M12	63	28	8x31.3	95	55	16x6	96
	4.0																										
147	4.0	1/30	425	224	252	140	155	350	590	290	245	295	35	21	215	180	250	5	M12	63	28	8x31.3	110	60	18x7	122	
	5.5																										
155	5.5	1/50	448	247	252	140	155	350	590	290	245	295	35	21	265	230	300	5	M12	83	38	10x41.3	110	65	18x7	154	
	7.5																										
175	7.5	1/60	481	262	262	150	175	394	640	320	267	323	40	21	265	230	300	5	M12	83	38	10x41.3	110	65	18x7	154	
	11.0																										
200	11.0	1/80	516	258	305	175	200	440	710	370	290	360	40	24	265	230	300	5	M12	83	38	10x41.3	125	70	20x7.5	220	
	15.0																										
250	15.0	1/100	615	330	360	200	250	510	860	440	350	440	45	28	300	250	350	6	M16	114	42	12x45.3	155	90	25x9	374	
	19.0																										

WPW型[MODEL]

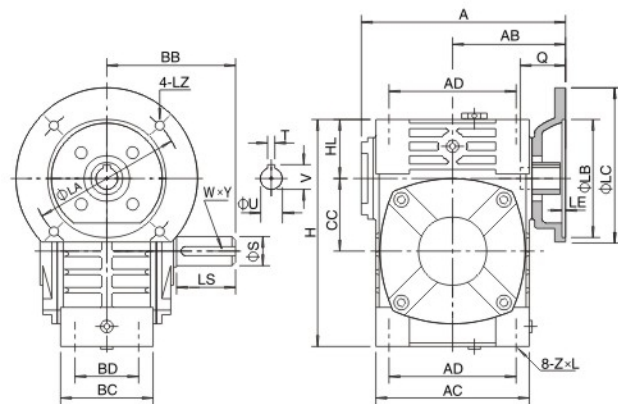


轴指向 SHAFT DIRECTION

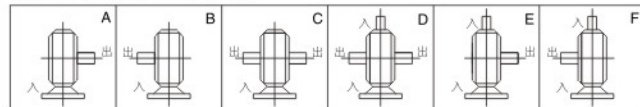


型号 Size	传动比 Ratio	A	AB	B	BB	AC	BC	AD	BD	CC	HL	H	Z×L	输入轴 Input shaft			输出轴 Output shaft			重量 Weight(kg)
														HS	U	T×V	LS	S	W×Y	
40	1/10 1/15 1/20 1/25 1/30 1/40 1/50 1/60	149	89	124	79	95	61	78	42	40	35	125	M6x12	25	12	4x2.5	28	14	5x3	4
50		175	107	150	97	111	68	85	50	50	35	150	M6x18	30	12	4x2.5	40	17	5x3	6.5
60		198	122	168	112	127	76	105	55	60	42	177	M8x20	40	15	5x3	50	22	6x3.5	9
70		231	140	194	131	152	86	125	65	70	55	215	M10x25	40	18	6x3.5	60	28	8x4	13
80		261	160	214	142	169	102	140	70	80	65	250	M12x28	50	22	6x3.5	65	32	10x5	21
100		322	190	254	169	216	117	180	90	100	80	310	M12x30	50	25	8x4	75	38	10x5	34
120		381	229	282	190	256	124	220	100	120	95	370	M14x32	65	30	8x4	85	45	14x5.5	51
135		433	260	317	210	296	147	260	110	135	105	425	M16x35	75	35	10x5	95	55	16x6	78
155		504	302	382	252	345	185	280	120	155	103	461	M16x35	85	40	12x5	110	60	18x7	102
175		545	325	402	262	374	192	320	140	175	123	521	M16x35	85	45	14x5.5	110	65	18x7	142
200	1/60	587	350	467	305	412	230	360	150	200	130	575	M20x36	95	50	14x5.5	125	70	20x7.5	202
250		705	420	552	360	500	285	420	190	250	150	700	M24x42	110	60	18x7	155	90	25x9	340

WPWD型[MODEL]



轴指向 SHAFT DIRECTION

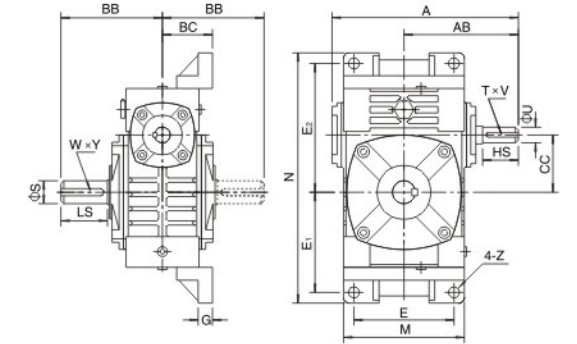


型号 Size	输入功率 Input(kw)	传动比 Ratio	A	AB	BB	AC	BC	AD	BD	CC	HL	H	Z×L	电机法兰 Flange					入力孔 Input hole			输出轴 Output shaft			重量 Weight(kg)
														LA	LB	LC	LE	LZ	Q	U	T×V	LS	S	W×Y	
40	0.12	1/10	135	75	79	95	61	78	42	40	35	125	M6x12	115	95	140	4	M8	31	11	4x12.8	28	14	5x3	4
50	0.18		151	83	97	111	68	85	50	50	35	150	M6x18	115	95	140	4	M8	31	11	4x12.8	40	17	5x3	7
60	0.37		167	91	112	127	76	105	55	60	42	177	M8x20	130	110	160	4	M8	33	14	5x16.3	50	22	6x3.5	10
70	0.75		200	109	131	152	86	125	65	70	55	215	M10x25	130	110	160	4	M8	40	14	5x16.3	60	28	8x4	14.5
	0.75		202	111										165	130	200	4	M10	42	19	6x21.8				
80	1.5		225	125	142	169	102	140	70	80	65	250	M12x28	165	130	200	4.5	M10	48	19	6x21.8	65	32	10x5	23
100	3.0		280	148	169	216	117	180	90	100	80	310	M12x30	165	130	200	4.5	M10	52	24	8x27.3				
120	4.0		333	181	190	256	124	220	100	120	95	370	M14x32	215	180	250	5	M12	63	28	8x31.3	75	38	10x5	36.5
135	5.5		375	202	210	296	147	260	110	135	105	425	M16x35	215	180	250	5	M12	63	28	8x31.3	85	45	14x5.5	54
155	7.5		425	224	252	345	185	280	120	155	103	461	M16x35	215	180	250	5	M12	63	28	8x31.3	110	60	18x7	110
	7.5	448	247										265	230	300	5	M12	83	38	10x41.3					
175	11.0	1/60	481	262	262	374	192	320	140	175	123	521	M16x35	265	230	300	5	M12	83	38	10x41.3	110	65	18x7	156
200	15.0		516	258	305	412	230	360	150	200	130	575	M20x36	265	230	300	6	M12	83	38	10x41.3	125	70	20x7.5	222
	15.0		543	285										300	250	350	6	M16	114	42	12x45.3				
250			615	330	360	500	285	420	190	250	150	700	M24x42	300	250	350	6	M16	114	42	12x45.3	155	90	25x9	376

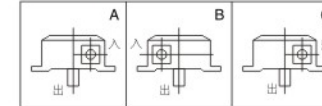
WPWX型[MODEL]



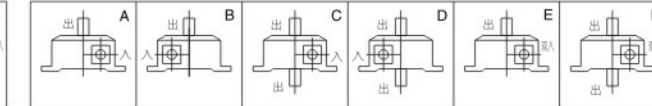
WPWO型[MODEL]



WPWX轴指向 SHAFT DIRECTION



WPWO轴指向 SHAFT DIRECTION

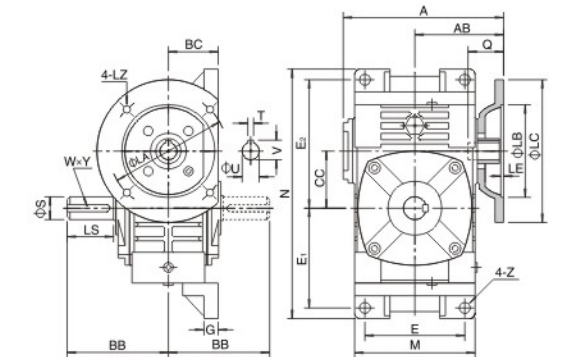


型号 Size	传动比 Ratio	A	AB	BB	BC	CC	M	N	E	E ₁	E ₂	G	Z	输入轴 Input shaft			输出轴 Output shaft			重量 Weight(kg)
														HS	U	T×V	LS	S	W×Y	
40	1/10 1/15 1/20 1/25 1/30 1/40 1/50 1/60	149	89	79	45	40	95	187	70	72	97	12	10	25	12	4x2.5	28	14	5x3	5
50		175	107	97	50	50	111	226	90	90	110	14	12	30	12	4x2.5	40	17	5x3	8
60		198	122	112	55	60	127	257	100	102	129	15	12	40	15	5x3	50	22	6x3.5	11
70		231	140	131	65	70	152	305	120	120	155	20	15	40	18	6x3.5	60	28	8x4	15.5
80		261	160	142	70	80	174	350	140	140	180	20	15	50	22	6x3.5	65	32	10x5	24
100		322	190	169	90	100	224	410	190	165	215	22	15	50	25	8x4	75	38	10x5	38
120		381	229	190	100	120	264	494	220	195	255	25	18	65	30	8x4	85	45	14x5.5	56
135		433	260	210	110	135	304	559	260	230	285	30	18	75	35	10x5	95	55	16x6	84
155		504	302	252	140	155	345	605	290	250	305	35	21	85	40	12x5	110	60	18x7	129
175		545	325	262	150	175	374	675	320	273	348	40	21	85	45	14x5.5	110	65	18x7	157
200	1/60	587	350	305	175	200	424	749	370	305	390	40	24	95	50	14x5.5	125	70	20x7.5	224
250		705	420	552	200	250	510	920	440	375	475	45	28	110	60	18x7	155	90	25x9	374

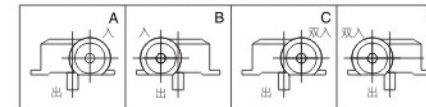
WPWDX型[MODEL]



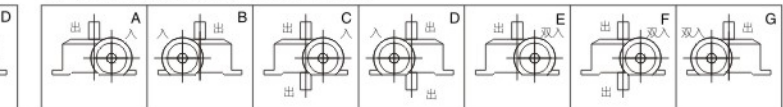
WPWDO型[MODEL]



WPWDX 轴指向 SHAFT DIRECTION



WPWDO 轴指向 SHAFT DIRECTION

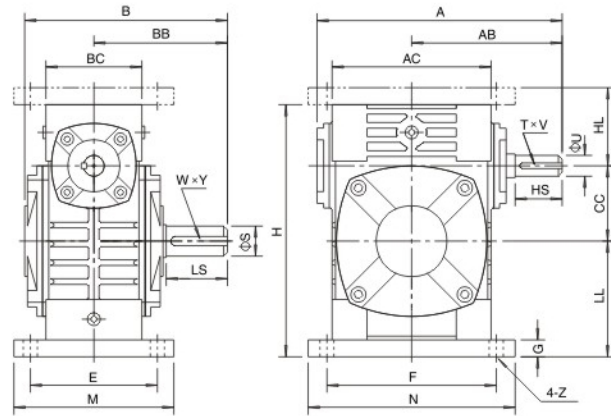


型号 Size	入功率 Input(kw)	传动比 Ratio	A	AB	BB	BC	CC	M	N	E	E ₁	E ₂	G	Z	电机法兰 Flange				入力孔 Input hole			输出轴 Output shaft			重量 Weight(kg)		
															LA	LB	LC	LE	LZ	Q	U	T×V	LS	S	W×Y		
40	0.12	1/10 1/15 1/20 1/25 1/30 1/40 1/50 1/60	135	75	79	45	40	95	187	70	72	97	12	10	115	95	140	4	M8	31	11	4x12.8	28	14	5x3	5.4	
50	0.18		151	83	97	50	50	111	226	90	90	110	14	12	115	95	140	4	M8	31	11	4x12.8	40	17	5x3	8.5	
60	0.37		167	91	112	55	60	127	256	100	102	129	15	12	130	110	160	4	M8	33	14	5x16.3	50	22	6x3.5	12	
70	0.37		200	109	131	65	70	152	305	120	120	155	20	15	130	110	160	4	M8	40	14	5x16.3	60	28	8x4	17	
	0.75		202	111											165	130	200	4	M10	42	19	6x21.8					
80	0.75		225	125	142	70	80	174	350	140	140	180	20	15	165	130	200	4.5	M10	48	19	6x21.8	65	32	10x5	26	
	1.5														52	24	8x27.3										
100	1.5		1/15	280	148	169	90	100	224	410	190	165	215	22	15	165	130	200	4.5	M10	52	24	8x27.3	75	38	10x5	40.5
120	2.2		1/25	333	181	190	100	120	264	494	220	195	255	25	18	215	180	250	5	M12	63	28	8x31.3	85	45	14x5.5	59
	3.0																										
135	3.0	1/30	375	202	210	110	135	304	559	260	230	285	30	18	215	180	250	5	M12	63	28	8x31.3	95	55	16x6	89	
	4.0																										
155	4.0	1/50	425	224	252	140	155	345	605	290	250	305	35	21	215	180	250	5	M12	63	28	8x31.3	110	60	18x7	138	
	5.5		448	247											265	230	300	5	M12	83	38	10x41.3					
175	5.5	1/60	481	262	262	150	175	374	675	320	273	348	40	21	265	230	300	5	M12	83	38	10x41.3	110	65	18x7	172	
	7.5																										
200	7.5	516	258	305	175	200	424	749	370	305	390	40	21	265	230	300	6	M12	83	38	10x41.3	125	70	20x7.5	246		
	11.0	543	285																							300	250
250	11.0		615	330	360	200	250	510	920	440	375	475	45	28	300	250	350	6	M16	114	42	12x45.3	155	90	25x9	410	
	15.0																										

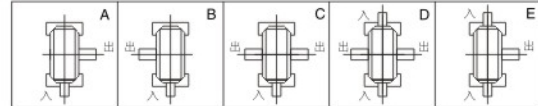
WPWA型[MODEL]



WPWS型[MODEL]



轴指向 SHAFT DIRECTION

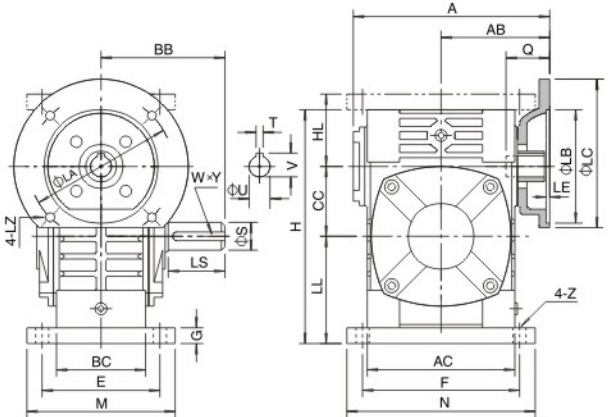


型号 Size	传动比 Ratio	A	AB	B	BB	AC	BC	CC	HL	LL	H	M	N	E	F	G	Z	输入轴 Input shaft HS U T×V	输出轴 Output shaft LS S W×Y	重量 Weight(kg)
40	1/10 1/15 1/20 1/25 1/30 1/40 1/50 1/60	149	89	124	79	95	61	40	45	60	135	100	130	80	110	10	10	25 12 4x2.5	28 14 5x3	4.5
50		175	107	150	97	111	68	50	50	80	165	120	140	95	110	15	12	30 12 4x2.5	40 17 5x3	7.5
60		198	122	168	112	127	76	60	60	93	195	130	150	105	120	18	12	40 15 5x3	50 22 6x3.5	11.5
70		231	140	194	131	152	86	70	73	108	233	150	190	115	150	18	15	40 18 6x3.5	60 28 8x4	15.5
80		261	160	214	142	169	102	80	83	123	268	170	220	135	180	18	15	50 22 6x3.5	65 32 10x5	24
100		322	190	254	169	216	117	100	100	150	330	190	270	155	220	20	15	50 25 8x4	75 38 10x5	39
120		381	229	282	190	256	124	120	120	180	395	230	320	180	260	25	18	65 30 8x4	85 45 14x5.5	57
135		433	260	317	210	296	147	135	135	215	455	250	350	200	290	30	18	75 35 10x5	95 55 16x6	85
155		504	302	382	252	345	185	155	135	235	493	280	380	220	320	32	21	85 40 12x5	110 60 18x7	110
175		545	325	402	262	374	192	175	160	260	558	310	410	250	350	37	21	85 45 14x5.5	110 65 18x7	152
200	1/60	587	350	467	305	412	230	200	175	290	620	355	445	290	390	45	24	95 50 14x5.5	125 70 20x7.5	216
250		705	420	552	360	500	285	250	200	350	750	460	560	380	480	50	28	110 60 18x7	155 90 25x9	350

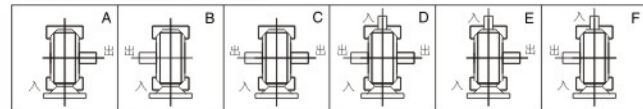
WPWDA型[MODEL]



WPWDS型[MODEL]

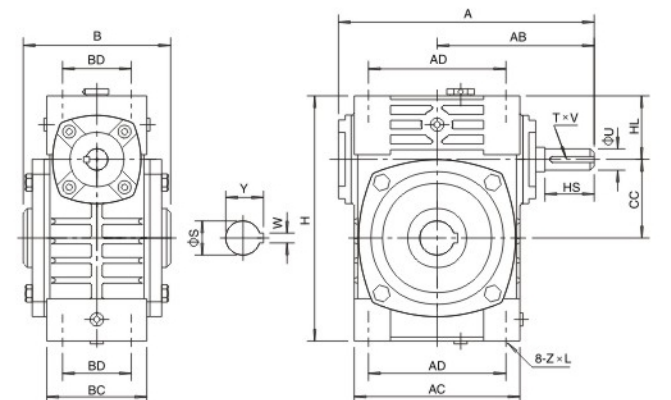


轴指向 SHAFT DIRECTION

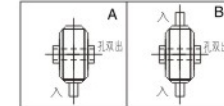


型号 Size	入功率 Input(kw)	传动比 Ratio	A	AB	BB	AC	BC	CC	HL	LL	H	M	N	E	F	G	Z	电机法兰 Flange LA LB LC LE LZ Q U T×V	输入孔 Input hole LS S W×Y	输出轴 Output shaft S W×Y	重量 Weight(kg)
40	0.12	1/10 1/15 1/20 1/25 1/30 1/40 1/50 1/60	135	75	79	95	61	40	45	60	135	100	130	80	110	10	10	115 95 140 4 M8 31 11 4x12.8	28 14 5x3	5x3	5
50	0.18		151	83	97	111	68	50	50	80	165	120	140	95	110	15	12	115 95 140 4 M8 31 11 4x12.8	40 17 5x3	5x3	8
60	0.37		167	91	112	127	76	60	60	93	195	130	150	105	120	18	12	130 110 160 4 M8 33 14 5x16.3	50 22 6x3.5	6x3.5	12.5
70	0.37 0.75		200 109 202 111	131 152	86 70	73 108	233 150	190 115	150 18	15	165 130	200 4.5	M10 42 19 6x21.8	60 28	8x4	17		130 110 160 4 M8 40 14 5x16.3	60 28 8x4	8x4	17
80	0.75 1.5		225 125	142 169	102 80	83 123	268 170	220 135	180 18	15	165 130	200 4.5	M10 48 19 6x21.8	65 32	10x5	26		165 130 200 4.5 M10 52 24 8x27.3	65 32 10x5	10x5	26
100	1.5 2.2		280 148	169 216	117 100	100 150	330 190	270 155	220 20	15	165 130	200 4.5	M10 52 24 8x27.3	75 38	10x5	41.5		265 230 300 5 M12 63 28 8x31.3	75 38 10x5	10x5	41.5
120	3.0 4.0		333 181	190 256	124 120	120 180	395 230	320 180	260 25	18	215 180	250 5	M12 63 28 8x31.3	85 45	14x5.5	60		265 230 300 5 M12 83 38 10x41.3	85 45 14x5.5	14x5.5	60
135	4.0 5.5		375 202	210 296	147 135	135 215	455 250	350 200	290 30	18	215 180	250 5	M12 63 28 8x31.3	95 55	16x6	90		265 230 300 5 M12 83 38 10x41.3	95 55 16x6	16x6	90
155	5.5 7.5		425 224 448 247	252 345	185 155	135 235	493 280	380 220	320 32	21	215 180	250 5	M12 63 28 8x31.3	110 60	18x7	118		265 230 300 5 M12 83 38 10x41.3	110 60 18x7	18x7	118
175	7.5 11.0		481 262	262 374	192 175	160 260	558 310	410 250	350 37	21	265 230	300 5	M12 83 38 10x41.3	110 65	18x7	167		300 250 350 6 M16 114 42 12x45.3	110 65 18x7	18x7	167
200	11.0 15.0	1/60	516 258 543 285	305 412	230 200	175 290	620 355	445 290	390 45	24	265 230	300 6	M12 83 38 10x41.3	125 70	20x7.5	237		300 250 350 6 M16 114 42 12x45.3	125 70 20x7.5	20x7.5	237
250	15.0		615 330	360 500	285 250	200 350	750 460	560 380	480 50	28	300 250	350 6	M16 114 42 12x45.3	155 90	25x9	395		300 250 350 6 M16 114 42 12x45.3	155 90 25x9	25x9	395

WPWK型[MODEL]

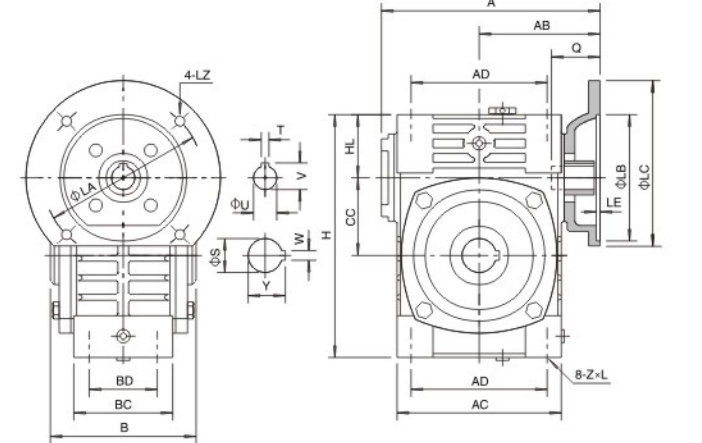


轴指向 SHAFT DIRECTION

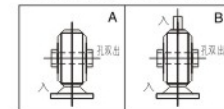


型号 Size	传动比 Ratio	A	AB	B	AC	BC	AD	BD	CC	HL	H	Z×L	输入轴 Input shaft HS U T×V	输出轴 Output shaft S W×Y	重量 Weight(kg)
40	1/10 1/15 1/20 1/25 1/30 1/40 1/50 1/60	149	89	90	95	61	78	42	40	35	125	M6x12	25 12 4x3	16 5x18.3	4
50		175	107	110	111	68	85	50	50	35	150	M6x18	30 12 4x2.5	20 6x22.8	6.5
60		198	122	120	127	76	105	55	60	42	177	M8x20	40 15 5x3	25 8x28.3	9
70		231	140	132	152	86	125	65	70	55	215	M10x25	40 18 6x3.5	30 8x33.3	13
80		261	160	150	169	102	140	70	80	65	250	M12x28	50 22 6x3.5	35 10x38.3	21
100		322	190	174	216	117	180	90	100	80	310	M12x30	50 25 8x4	40 12x43.3	34
120		381	229	180	256	124	220	100	120	95	370	M14x32	65 30 8x4	45 14x48.8	51
135		433	260	214	296	147	260	110	135	105	425	M16x35	75 35 10x5	60 18x64.4	78
155		504	302	256	345	185	280	120	155	103	461	M16x35	85 40 12x5	70 20x74.9	102
175		545	325	282	374	192	320	140	175	123	521	M16x35	85 45 14x5.5	80 22x85.4	142
200	1/60	587	350	324	412	230	360	150	200	130	575	M20x36	95 50 14x5.5	85 22x90.4	202
250		705	420	400	500	285	420	190	250	150	700	M24x42	110 60 18x7	110 28x116.4	340

WPWDK型[MODEL]



轴指向 SHAFT DIRECTION

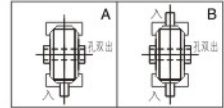


型号 Size	入功率 Input(kw)	传动比 ratio	A	AB	B	AC	BC	AD	BD	CC	HL	H	ZxL	电机法兰 Flange					入力孔 Input hole			输出轴 Output shaft		重量 Weight(kg)	
			LA	LB	LC	LE	LZ	Q	U	TxV	S	WxY													
40	0.12	1/10	135	75	90	95	61	78	42	40	35	125	M6x12	115	95	140	4	M8	31	11	4x12.8	16	5x18.3	4	
50	0.18		151	83	110	111	68	85	50	50	35	150	M6x18	115	95	140	4	M8	31	11	4x12.8	20	6x22.8	7	
60	0.37		167	91	120	127	76	105	55	60	42	177	M8x20	130	110	160	4	M8	33	14	5x16.3	25	8x28.3	10	
70	0.37		200	109	132	152	86	125	65	70	55	215	M10x25	130	110	160	4	M8	40	14	5x16.3	30	8x33.3	14.5	
	0.75		202	111										M10	42	19		6x21.8							
80	0.75		225	125	150	169	102	140	70	80	65	250	M12x28	165	130	200	4.5	M10	52	24	8x27.3	35	10x38.3	23	
	1.5		280	148	174	216	117	180	90	100	80	310	M12x30	165	130	200	4.5	M10	52	24	8x27.3	40	12x43.3	36.5	
100	1.5		1/15	333	181	180	256	124	220	100	120	95	370	M14x32	215	180	250	5	M12	63	28	8x31.3	45	14x48.8	54
120	2.2																								
135	3.0		1/25	425	224	256	345	185	280	120	155	103	461	M16x35	215	180	250	5	M12	63	28	8x31.3	70	20x74.9	110
	4.0	265													230	300	5	M12	83	38	10x41.3				
155	4.0	1/40	448	247	282	374	192	320	140	175	123	521	M16x35	265	230	300	5	M12	83	38	10x41.3	80	22x85.4	156	
	5.5													265	230	300	5	M12	83	38	10x41.3				
175	5.5	1/50	481	262	282	374	192	320	140	175	123	521	M16x35	265	230	300	5	M12	83	38	10x41.3	80	22x85.4	156	
	7.5													265	230	300	5	M12	83	38	10x41.3				
200	7.5	1/60	516	258	324	412	230	360	150	200	130	575	M20x36	265	230	300	5	M12	83	38	10x41.3	85	22x90.4	222	
	11.0		543	285										300	250	350	6	M16	114	42	12x45.3				
250	11.0	1/60	615	330	400	500	285	420	190	250	150	700	M24x42	300	250	350	6	M16	114	42	12x45.3	110	28x116.4	376	
	15.0																								

WPWKA型[MODEL]



轴指向 SHAFT DIRECTION

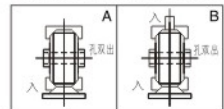


型号 Size	传动比 Ratio	A	AB	B	AC	BC	CC	HL	LL	H	M	N	E	F	G	Z	输入轴 Input shaft			输出轴 Output shaft		重量 Weight/kg
																	HS	U	T×V	S	W×Y	
40	1/10 1/15 1/20 1/25 1/30 1/40 1/50 1/60	149	89	90	95	61	40	45	60	135	100	130	80	110	10	10	25	12	4x2.5	16	5x18.3	4.5
50		175	107	110	111	68	50	50	80	165	120	140	95	110	15	12	30	12	4x2.5	20	6x22.8	7.5
60		198	122	120	127	76	60	60	93	195	130	150	105	120	18	12	40	15	5x3	25	8x28.3	11.5
70		231	140	132	152	86	70	73	108	233	150	190	115	150	18	15	40	18	6x3.5	30	8x33.3	15.5
80		261	160	150	169	102	80	83	123	268	170	220	135	180	18	15	50	22	6x3.5	35	10x38.3	24
100		322	190	174	216	117	100	100	150	330	190	270	155	220	20	15	50	25	8x4	40	12x43.3	39
120		381	229	180	256	124	120	120	180	395	230	320	180	260	25	18	65	30	8x4	45	14x48.8	57
135		433	260	214	296	147	135	135	215	455	250	350	200	290	30	18	75	35	10x5	60	18x64.4	85
155		504	302	256	345	185	155	135	235	493	280	380	220	320	32	21	85	40	12x5	70	20x74.9	110
175		545	325	282	374	192	175	160	260	558	310	410	250	350	37	21	85	45	14x5.5	80	22x85.4	152
200		587	350	324	412	230	200	175	290	620	355	445	290	390	45	24	95	50	14x5.5	85	22x90.4	216
250		705	420	400	500	285	250	200	350	750	460	560	380	480	50	28	110	60	18x7	110	28x116.4	350

WPWDKA型[MODEL]



轴指向 SHAFT DIRECTION

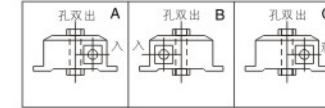


型号 Size	输入功率 Input(kw)	传动比 Ratio	A	AB	B	AC	BC	CC	HL	LL	H	M	N	E	F	G	Z	电机法兰 Flange				入力孔 Input hole			输出轴 Output shaft		重量 Weight(kg)		
			LA	LB	LC	LE	LZ	Q	U	TxV	S	WxY																	
40	0.12	1/10 1/15 1/20 1/25 1/30 1/40 1/50 1/60	135	75	90	95	61	40	45	60	135	100	130	80	110	10	10	115	95	140	4	M8	31	11	4x12.8	16	5x18.3	5	
50	0.18		151	83	110	111	68	50	50	80	165	120	140	95	110	15	12	115	95	140	4	M8	31	11	4x12.8	20	6x22.8	8	
60	0.37		167	91	120	127	76	60	60	93	195	130	150	105	120	18	12	130	110	160	4	M8	33	14	5x16.3	25	8x28.3	12.5	
70	0.37		200	109	132	152	86	70	73	108	233	150	190	115	150	18	15	130	110	160	4	M8	40	14	5x16.3	30	8x33.3	17	
	0.75		202	111														165	130	200		M10	42	19	6x21.8				
80	0.75		225	125	150	169	102	80	83	123	268	170	220	135	180	18	15	165	130	200	4.5	M10	48	19	6x21.8	35	10x38.3	26	
	1.5		280	148	174	216	117	100	100	150	330	190	270	155	220	20	15	165	130	200	4.5	M10	52	24	8x27.3				
100	2.2		333	181	180	256	124	120	120	180	395	230	320	180	260	25	18	215	180	250	5	M12	63	28	8x31.3	45	14x48.8	60	
	3.0		375	202	214	296	147	135	135	215	455	250	350	200	290	30	18	215	180	250	5	M12	63	28	8x31.3				
120	3.0		1/30 1/40	425	224	256	345	185	155	135	235	493	280	380	220	320	32	21	215	180	250	5	M12	63	28	8x31.3	70	20x74.9	118
	4.0			448	247														265	230	300	5	M12	83	38	10x41.3			
135	4.0		1/50 1/60	481	262	282	374	192	175	160	260	558	310	410	250	350	37	21	265	230	300	5	M12	83	38	10x41.3	80	22x85.4	167
	7.5	516		258	324	412	230	200	175	290	620	355	445	290	390	45	24	265	230	300	5	M12	83	38	10x41.3				
155	7.5	1/50 1/60	543	285	324	412	230	200	175	290	620	355	445	290	390	45	24	300	250	350	6	M16	114	42	12x45.3	85	22x90.4	237	
	11.0		615	330	400	500	285	250	200	350	750	460	560	380	480	50	28	300	250	350	6	M16	114	42	12x45.3				
200	11.0	1/50 1/60	615	330	400	500	285	250	200	350	750	460	560	380	480	50	28	300	250	350	6	M16	114	42	12x45.3	110	28x116.4	395	
250	15.0		615	330	400	500	285	250	200	350	750	460	560	380	480	50	28	300	250	350	6	M16	114	42	12x45.3				

WPWKO型[MODEL]



轴指向 SHAFT DIRECTION

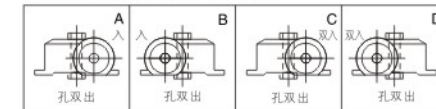


型号 Size	传动比 Ratio	A	AB	B	BC	CC	M	N	E	E ₁	E ₂	G	Z	输入轴 Input shaft			输出轴 Output shaft		重量 Weight(kg)
		HS	U	T x V	S	W x Y													
40	1/10 1/15 1/20 1/25 1/30 1/40 1/50 1/60	149	89	90	45	40	95	187	70	72	97	12	10	25	12	4x2.5	16	5x18.3	5
50		175	107	110	50	50	111	226	90	90	110	14	12	30	12	4x2.5	20	6x22.8	8
60		198	122	120	55	60	127	257	100	102	129	15	12	40	15	5x3	25	8x28.3	11
70		231	140	132	65	70	152	305	120	120	155	20	15	40	18	6x3.5	30	8x33.3	15.5
80		261	160	150	70	80	174	350	140	140	180	20	15	50	22	6x3.5	35	10x38.3	24
100		322	190	174	90	100	224	410	190	165	215	22	15	50	25	8x4	40	12x43.3	38
120		381	229	180	100	120	264	494	220	195	255	25	18	65	30	8x4	45	14x48.8	56
135		433	260	214	110	135	304	559	260	230	285	30	18	75	35	10x5	60	18x64.4	84
155		504	302	256	140	155	345	605	290	250	305	35	21	85	40	12x5	70	20x74.9	129
175		545	325	282	150	175	374	675	320	273	348	40	21	85	45	14x5.5	80	22x85.4	157
200		587	350	324	175	200	424	749	370	305	390	40	24	95	50	14x5.5	85	22x90.4	224
250		705	420	400	200	250	510	920	440	375	475	45	28	110	60	18x7	110	28x116.4	374

WPWDKO型[MODEL]



轴指向 SHAFT DIRECTION

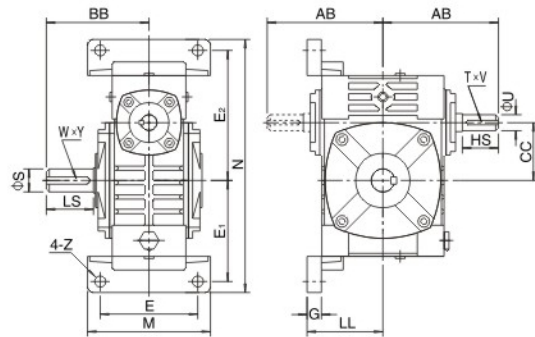


型号 Size	入功率 Input(kw)	传动比 Ratio	A	AB	B	BC	CC	M	N	E	E ₁	E ₂	G	Z	电机法兰 Flange				入力孔 Input hole			输出轴 Output shaft		重量 Weight(kg)		
			LA	LB	LC	LE	LZ	Q	U	TxV	S	WxY														
40	0.12	1/10 1/15 1/20 1/25 1/30 1/40 1/50 1/60	135	75	90	45	40	95	187	70	72	97	12	10	115	95	140	4	M8	31	11	4x12.8	16	5x18.3	5.4	
50	0.18		151	83	110	50	50	111	226	90	90	110	14	12	115	95	140	4	M8	31	11	4x12.8	20	6x22.8	8.5	
60	0.37		167	91	120	55	60	127	257	100	102	129	15	12	130	110	160	4	M8	33	14	5x16.3	25	8x28.3	12	
70	0.37		200	109	132	65	70	152	305	120	120	155	20	15	130	110	160	4	M8	40	14	5x16.3	30	8x33.3	17	
	0.75		202	111																						6x21.8
80	0.75		225	125	150	70	80	174	350	140	140	180	20	15	165	130	200	4.5	M10	48	19	6x21.8	35	10x38.3	26	
	1.5			52	24	8x27.3																				
100	1.5		280	148	174	90	100	224	410	190	165	215	22	15	165	130	200	4.5	M10	52	24	8x27.3	40	12x43.3	40.5	
120	2.2		1/25	333	181	180	100	120	264	494	220	195	255	25	18	215	180	250	5	M12	63	28	8x31.3	45	14x48.8	59
	3.0																									
135	3.0	1/30	375	202	214	110	135	304	559	260	230	285	30	18	215	180	250	5	M12	63	28	8x31.3	60	18x64.4	89	
	4.0																									
155	4.0	1/50	425	224	256	140	155	345	605	290	250	305	35	21	215	180	250	5	M12	63	28	8x31.3	70	20x74.9	138	
	5.5		448	247																						10x41.3
175	5.5	1/60	481	262	282	150	175	374	675	320	273	348	40	21	265	230	300	5	M12	83	38	10x41.3	80	22x85.4	172	
	7.5																									
200	7.5	516	258	324	175	200	424	749	370	305	390	40	24	265	230	300	5	M12	83	38	10x41.3	85	22x90.4	246		
	11.0	543	285																						12x45.3	
250	11.0		615	330	400	200	250	510	920	440	375	475	45	28	300	250	350	6	M16	114	42	12x45.3	110	28x116.4	410	
	15.0																									

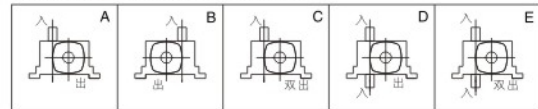
WPWT型[MODEL]



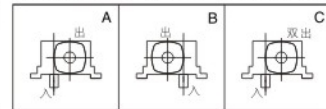
WPWV型[MODEL]



WPWT轴指向 SHAFT DIRECTION



WPWV轴指向 SHAFT DIRECTION

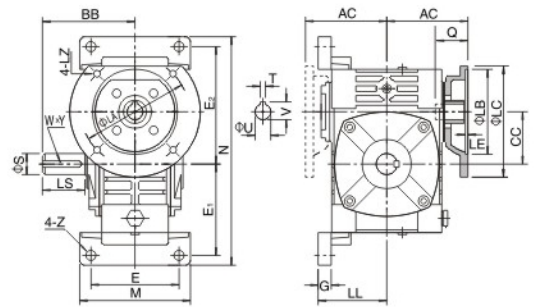


型号 Size	传动比 Ratio	AB	BB	CC	LL	M	N	E	E ₁	E ₂	G	Z	输入轴 Input shaft			输出轴 Output shaft			重量 Weight(kg)
													HS	U	TxV	LS	S	WxY	
40	1/10 1/15 1/20 1/25 1/30 1/40 1/50 1/60	87	79	40	63	90	187	70	72	97	12	10	25	12	4x2.5	28	14	5x3	5
50		107	97	50	70	120	226	95	90	110	14	12	30	12	4x2.5	40	17	5x3	8
60		122	112	60	80	130	257	105	102	129	15	12	40	15	5x3	50	22	6x3.5	11
70		140	131	70	95	150	305	115	120	155	20	15	40	18	6x3.5	60	28	8x4	15.5
80		160	142	80	105	170	350	135	140	180	20	15	50	22	6x3.5	65	32	10x5	24
100		190	169	100	135	190	410	155	165	215	22	15	50	25	8x4	75	38	10x5	38
120		229	190	120	160	230	494	180	195	255	25	18	65	30	8x4	85	45	14x5.5	56
135		260	210	135	185	250	559	200	230	285	30	18	75	35	10x5	95	55	16x6	84
155		302	252	155	220	275	605	220	250	305	35	21	85	40	12x5	110	60	18x7	129
175		325	262	175	240	310	675	250	273	348	40	21	85	45	14x5.5	110	65	18x7	157
200	1/60	350	305	200	280	360	749	290	305	390	40	24	95	50	14x5.5	125	70	20x7.5	224
250		420	552	250	315	460	920	380	375	475	45	28	110	60	18x7	155	90	25x9	374

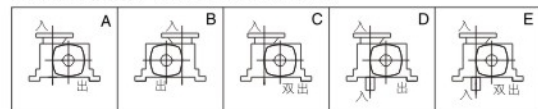
WPWDT型[MODEL]



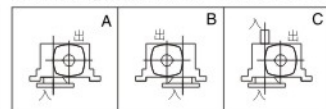
WPWDV型[MODEL]



WPWDT轴指向 SHAFT DIRECTION



WPWDV轴指向 SHAFT DIRECTION

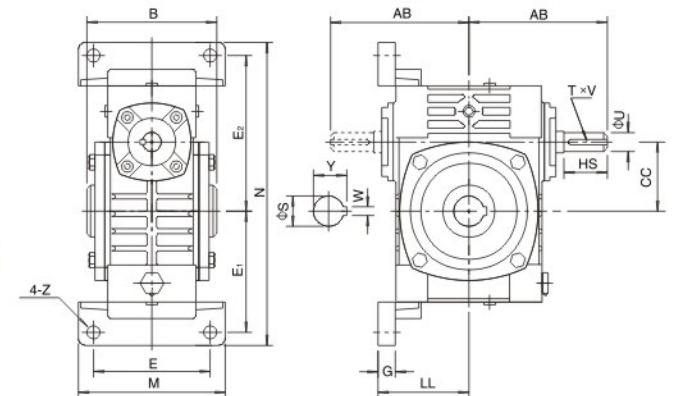


型号 Size	入功率 Input(kw)	传动比 Ratio	AC	BB	CC	LL	M	N	E	E ₁	E ₂	G	Z	电机法兰 Flange				入力孔 Input hole				输出轴 Output shaft			重量 Weight(kg)	
														LA	LB	LC	LE	LZ	Q	U	T×V	LS	S	W×Y		
40	0.12	1/10 1/15 1/20 1/25 1/30 1/40 1/50 1/60	75	79	40	63	90	187	70	72	97	12	10	115	95	140	4	M8	31	11	4×12.8	28	14	5x3	5.4	
50	0.18		83	97	50	70	120	226	95	90	110	14	12	115	95	140	4	M8	31	11	4×12.8	40	17	5x3	8.5	
60	0.37		91	112	60	80	130	257	105	102	129	15	12	130	110	160	4	M8	33	14	5×16.3	50	22	6x3.5	12	
70	0.37		109	131	70	95	150	305	115	120	155	20	15	130	110	160	4	M8	40	14	5×16.3	60	28	8x4	17	
	0.75		111											165	130	200		M10	42	19	6x21.8					
80	0.75		125	142	80	105	170	350	135	140	180	20	15	165	130	200	4.5	M10	48	19	6x21.8	65	32	10x5	26	
	1.5		148															169	100	135	190					410
100	1.5		1/20	148	169	100	135	190	410	155	165	215	22	15	165	130	200	4.5	M10	52	24	8x27.3	75	38	10x5	40.5
120	2.2		1/25	181	190	120	160	230	494	180	195	255	25	18	215	180	250	5	M12	63	28	8x31.3	85	45	14x5.5	59
	3.0																									
135	3.0	1/30	202	210	135	185	250	559	200	230	285	30	18	215	180	250	5	M12	63	28	8x31.3	95	55	16x6	89	
	4.0																									
155	4.0	1/50	224	252	155	220	275	605	220	250	305	35	21	215	180	250	5	M12	63	28	8x31.3	110	60	18x7	138	
	5.5		265											230	300	5	M12	83	38	10x41.3						
175	5.5	1/60	262	262	175	240	310	675	250	273	348	40	21	265	230	300	5	M12	83	38	10x41.3	110	65	18x7	172	
	7.5																									
200	7.5	258	305	200	280	360	749	290	305	390	40	24	265	230	300	5	M12	83	38	10x41.3	125	70	20x7.5	246		
	11.0	285											300	250	350	6	M16	114	42	12x45.3						
250	11.0	1/60	330	360	250	315	460	920	380	375	475	45	28	300	250	350	6	M16	114	42	12x45.3	155	90	25x9	410	
	15.0																									

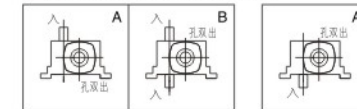
WPWKT型[MODEL]



WPWKV型[MODEL]



轴指向 SHAFT DIRECTION

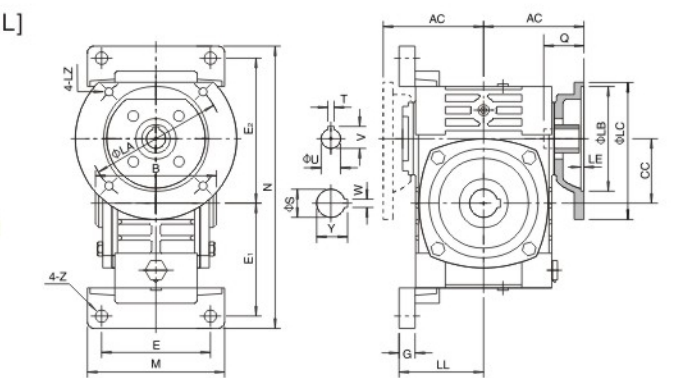


型号 Size	传动比 Ratio	AB	B	CC	LL	M	N	E	E ₁	E ₂	G	Z	输入轴 Input shaft			输出轴 Output shaft		重量 Weight(kg)
													HS	U	TxV	S	W x Y	
40	1/10 1/15 1/20 1/25 1/30 1/40 1/50 1/60	87	90	40	63	90	187	70	72	97	12	10	25	12	4x2.5	16	5x18.3	5
50		107	110	50	70	120	226	95	90	110	14	12	30	12	4x2.5	20	6x22.8	8
60		122	120	60	80	130	257	105	102	129	15	12	40	15	5x3	25	8x28.3	11
70		140	132	70	95	150	305	115	120	155	20	15	40	18	6x3.5	30	8x33.3	15.5
80		160	150	80	105	170	350	135	140	180	20	15	50	22	6x3.5	35	10x38.3	24
100		190	174	100	135	190	410	155	165	215	22	15	50	25	8x4	40	12x43.3	38
120		229	180	120	160	230	494	180	195	255	25	18	65	30	8x4	45	14x48.8	56
135		260	214	135	185	250	559	200	230	285	30	18	75	35	10x5	60	18x64.4	84
155		302	256	155	220	275	605	220	250	305	35	21	85	40	12x5	70	20x74.9	129
175		325	282	175	240	310	675	250	273	348	40	21	85	45	14x5.5	80	22x85.4	157
200	1/60	350	324	200	280	360	749	290	305	390	40	24	95	50	14x5.5	85	22x90.4	224
250		420	400	250	315	460	920	380	375	475	45	28	110	60	18x7	110	28x116.4	374

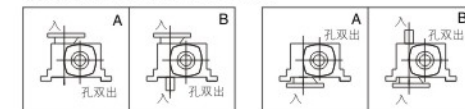
WPWDKT型[MODEL]



WPWDKV型[MODEL]

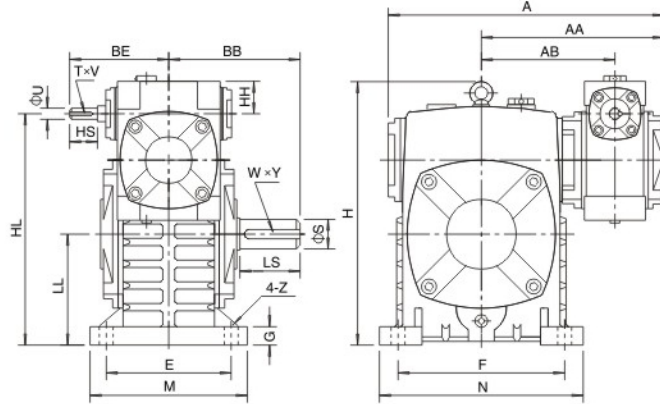


轴指向 SHAFT DIRECTION

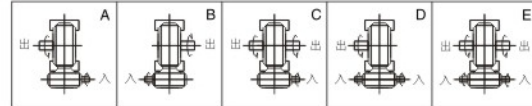


型号 Size	入功率 Input(kw)	传动比 Ratio	AC	B	CC	LL	M	N	E	E ₁	E ₂	G	Z	电机法兰 Flange				入力孔 Input hole				输出轴 Output shaft	重量 Weight(kg)		
														LA	LB	LC	LE	LZ	Q	U	TxV	S	WxY		
40	0.12	1/10	75	90	40	63	90	187	70	72	97	12	10	115	95	140	4	M8	31	11	4x12.8	16	5x18.3	5.4	
50	0.18		83	110	50	70	120	226	95	90	110	14	12	115	95	140	4	M8	31	11	4x12.8	20	6x22.8	8.5	
60	0.37		91	120	60	80	130	257	105	102	129	15	12	130	110	160	4	M8	33	14	5x16.3	25	8x28.3	12	
70	0.37		109	132	70	95	150	305	115	120	155	20	15	130	110	160	4	M8	40	14	5x16.3	30	8x33.3	17	
	0.75		111											165	130	200		M10	42	19	6x21.8				
80	0.75		125	150	80	105	170	350	135	140	180	20	15	165	130	200	4.5	M10	48	19	6x21.8	35	10x38.3	26	
	1.5		52															24	8x27.3						
100	1.5		1/15	148	174	100	135	190	410	155	165	215	22	15	165	130	200	4.5	M10	52	24	8x27.3	40	12x43.3	40.5
120	2.2		1/20	181	180	120	160	230	494	180	195	255	25	18	215	180	250	5	M12	63	28	8x31.3	45	14x48.8	59
	3.0		1/25																						
135	3.0	1/30	202	214	135	185	250	559	200	230	285	30	18	215	180	250	5	M12	63	28	8x31.3	60	18x64.4	89	
	4.0	1/40																							
155	4.0	1/50	224	256	155	220	275	605	220	250	305	35	21	215	180	250	5	M12	63	28	8x31.3	70	20x74.9	138	
	5.5		247											265	230	300	5	M12	83	38	10x41.3				
175	5.5	1/60	262	282	175	240	310	675	250	273	348	40	21	265	230	300	5	M12	83	38	10x41.3	80	22x85.4	172	
	7.5		285											250	350	6	M12	83	38	10x41.3					
200	7.5	258	324	200	280	360	749	290	305	390	40	24	265	230	300	5	M12	83	38	10x41.3	85	22x90.4	246		
	11.0	285											300	250	350	6	M12	114	42	12x45.3					
250	11.0		330	400	250	315	460	920	380	375	475	45	28	300	250	350	6	M16	114	42	12x45.3	110	28x116.4	400	
	15.0																								

WPES型[MODEL]

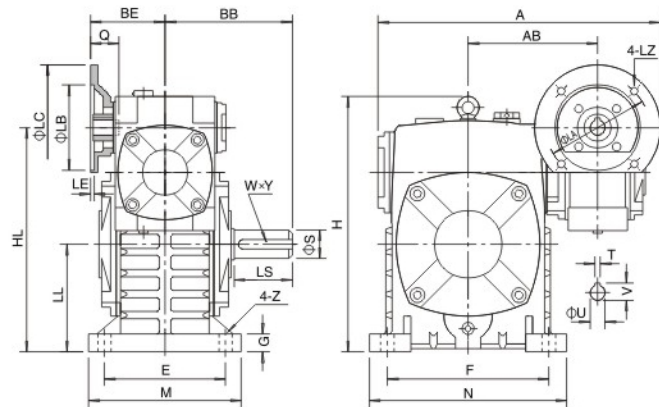


轴指向 SHAFT DIRECTION

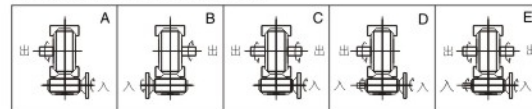


型号 Size	传动比 Ratio	A	AA	AB	BB	BE	HH	HL	LL	H	M	N	E	F	G	Z	输入轴 Input shaft			输出轴 Output shaft			重量 Weight(kg)
																	HS	U	TxV	LS	S	WxY	
40-70		262	171	126	131	89	35	215	105	238	150	190	115	150	20	15	25	12	4x2.5	60	28	8x4	20
50-80		297	197	144	142	107	35	250	120	273	170	220	135	180	20	15	30	12	4x2.5	65	32	10x5	27
60-100	1/200	363	231	175	169	122	42	310	150	334	190	270	155	220	25	15	40	15	5x3	75	38	10x5	44
70-120	1/300	408	256	193	190	140	55	370	180	423	230	320	180	260	30	18	40	18	6x3.5	85	45	14x5.5	73
80-135	1/400	471	298	226	210	160	65	430	215	482	250	350	200	290	30	18	50	22	6x3.5	95	55	16x6	101
80-147	1/500	476	301	229	212	160	65	430	203	495	250	350	200	280	32	18	50	22	6x3.5	95	55	16x6	112
100-155	1/600	555	354	269	252	190	80	490	235	541	275	390	220	320	35	21	50	25	8x4	110	60	18x7	144
120-175	1/800	598	379	287	262	229	95	555	260	600	310	430	250	350	40	21	65	30	8x4	110	65	18x7	201
135-200	1/900	662	425	318	305	260	105	625	290	677	360	480	290	390	40	24	75	35	10x5	125	70	20x7.5	293
155-250		795	510	380	360	302	103	755	350	824	460	560	380	480	45	28	85	40	12x5	155	90	25x9	462

WPEDS型[MODEL]

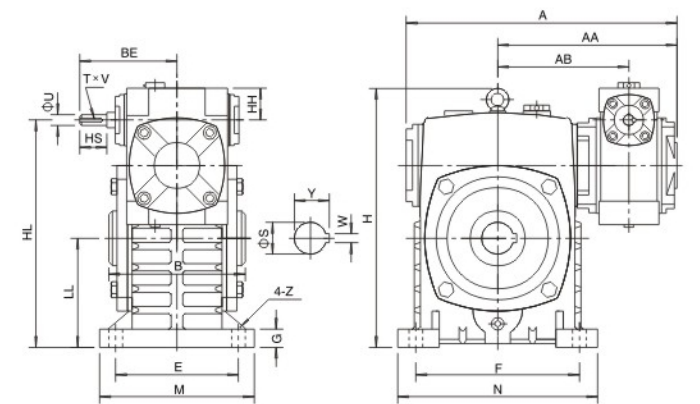


轴指向 SHAFT DIRECTION

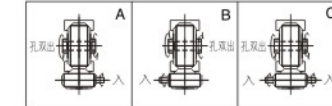


型号 Size	入功率 Input(kw)	传动比 Ratio	A	AB	BB	BE	HL	LL	H	M	N	E	F	G	Z	电机法兰 Flange					入力孔 Input hole			输出轴 Output shaft			重量 Weight(kg)
																LA	LB	LC	LE	LZ	Q	U	TxV	LS	S	WxY	
40-70	0.12		287	126	131	75	215	105	238	150	190	115	150	20	15	115	95	140	4	M8	31	11	4x12.8	60	28	8x4	19
50-80	0.18		314	144	142	83	250	120	273	170	220	135	180	20	15	115	95	140	4	M8	31	11	4x12.8	65	32	10x5	27
60-100	0.37		387	175	169	91	310	150	334	190	270	155	220	25	15	130	110	160	4	M8	33	14	5x16.3	75	38	10x5	45
70-120	0.37		425	193	190	109	370	180	423	230	320	180	260	30	18	130	110	160	4	M8	40	14	5x16.3	85	45	14x5.5	75
80-135	0.75	1/200	445			111										165	130	200	4	M10	42	19	6x21.8	95	55	16x6	103
80-135	0.75	1/300	499	226	210	125	430	215	482	250	350	200	290	30	18	165	130	200	4.5	M10	48	19	6x21.8	95	55	16x6	103
80-147	1.5	1/400														52	24	8x27.3			52	24	8x27.3				
80-147	0.75	1/500	504	229	212	125	430	203	495	250	350	200	280	32	18	165	130	200	4.5	M10	48	19	6x21.8	95	55	16x6	114
100-155	1.5	1/600	570	269	252	148	490	235	541	275	390	220	320	35	21	165	130	200	4.5	M10	52	24	8x27.3	110	60	18x7	147
120-175	2.2	1/800	631	287	262	181	555	260	600	310	430	250	350	40	21	215	180	250	5	M12	63	28	8x31.3	110	65	18x7	204
135-200	3.0	1/900	680	318	305	202	625	290	677	360	480	290	390	40	24	215	180	250	5	M12	63	28	8x31.3	125	70	20x7.5	298
155-250	4.0		815	380	360	224	755	350	824	460	560	380	480	45	28	215	180	250	5	M12	63	28	8x31.3	155	90	25x9	470
155-250	5.5					247										265	230	300	5	M12	83	38	10x41.3				

WPEKS型[MODEL]

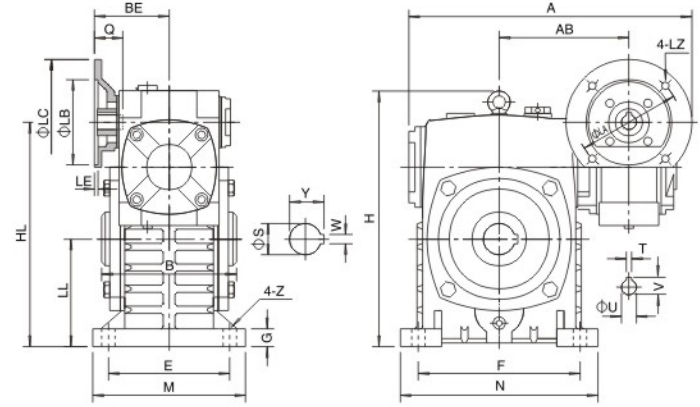


轴指向 SHAFT DIRECTION

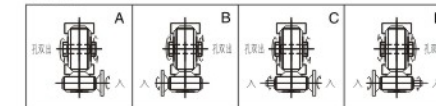


型号 Size	传动比 Ratio	A	AA	AB	B	BE	HH	HL	LL	H	M	N	E	F	G	Z	输入轴 Input shaft			输出轴 Output shaft		重量 Weight (kg)
		HS	U	TxV	S	WxY																
40-70	1/200 1/300 1/400 1/500 1/600 1/800 1/900	262	171	126	132	89	35	215	105	238	150	190	115	150	20	15	25	12	4x2.5	30	8x33.3	20
50-80		297	197	144	150	107	35	250	120	273	170	220	135	180	20	15	30	12	4x2.5	35	10x38.3	27
60-100		363	231	175	174	122	42	310	150	334	190	270	155	220	25	15	40	15	5x3	40	12x43.3	44
70-120		408	256	193	180	140	55	370	180	423	230	320	180	260	30	18	40	18	6x3.5	45	14x48.8	73
80-135		471	298	226	214	160	65	430	215	482	250	350	200	290	30	18	50	22	6x3.5	60	18x64.4	101
100-155		555	354	269	256	190	80	490	235	541	275	390	220	320	35	21	50	25	8x4	70	20x74.9	144
120-175		598	379	287	282	229	95	555	260	600	310	430	250	350	40	21	65	30	8x4	80	22x85.4	201
135-200		662	425	318	324	260	105	625	290	677	360	480	290	390	40	24	75	35	10x5	85	22x90.4	293
155-250		795	510	380	400	302	103	755	350	824	460	560	380	480	45	28	85	40	12x5	110	28x116.4	462

WPEDKS型[MODEL]

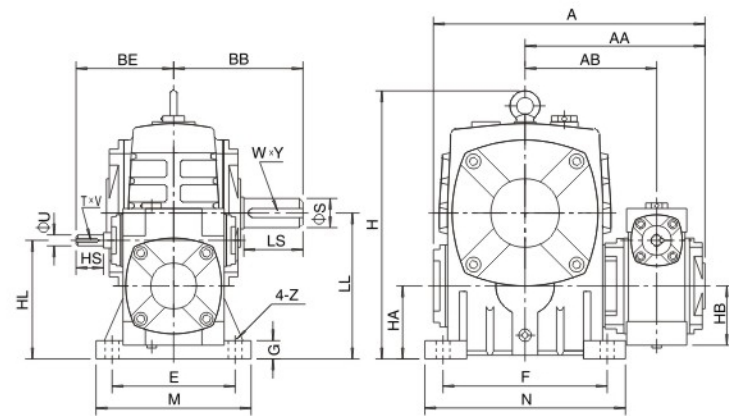


轴指向 SHAFT DIRECTION

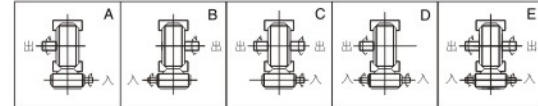


型号 Size	入功率 Input(kw)	传动比 Ratio	A	AB	B	BE	HL	LL	H	M	N	E	F	G	Z	电机法兰 Flange					入力孔 Input hole			输出轴 Output shaft		重量 Weight (kg)
																LA	LB	LC	LE	LZ	Q	U	TxV	S	WxY	
40~70	0.12	1/200 1/300 1/400 1/500 1/600 1/800 1/900	287	126	132	75	215	105	238	150	190	115	150	20	15	115	95	140	4	M8	31	11	4x12.8	30	8x33.3	19
50~80	0.18		314	144	150	83	250	120	273	170	220	135	180	20	15	115	95	140	4	M8	31	11	4x12.8	35	10x38.3	27
60~100	0.37		387	175	174	91	310	150	334	190	270	155	220	25	15	130	110	160	4	M8	33	14	5x16.3	40	12x43.3	45
70~120	0.37		425	193	180	109	370	180	423	230	320	180	260	30	18	130	110	160	4	M8	40	14	5x16.3	45	14x48.8	75
	0.75		111			M10										42	19	6x21.8								
80~135	0.75		445	226	214	125	430	215	482	250	350	200	290	30	18	165	130	200	4.5	M10	48	19	6x21.8	60	18x64.4	103
	1.5		52													24	8x27.3									
100~155	1.5		499	269	256	148	490	235	541	275	390	220	320	35	21	165	130	200	4.5	M10	52	24	8x27.3	70	20x74.9	147
	2.2		570													130	200	4.5		M10	52	24	8x27.3			
120~175	3.0		631	287	282	181	555	260	600	310	430	250	350	40	21	215	180	250	5	M12	63	28	8x31.3	80	22x85.4	204
	3.0	631	180													250	5	M12		63	28	8x31.3				
135~200	4.0	680	318	324	202	625	290	677	360	480	290	390	40	24	215	180	250	5	M12	63	28	8x31.3	85	22x90.4	298	
	4.0	680													180	250	5		M12	63	28	8x31.3				
155~250	5.5	815	380	400	224	755	350	824	460	560	380	480	45	28	215	180	250	5	M12	63	28	8x31.3	110	28x116.4	470	
	5.5	247			265										230	300	5		M12	83	38	10x41.3				

WPEA型[MODEL]

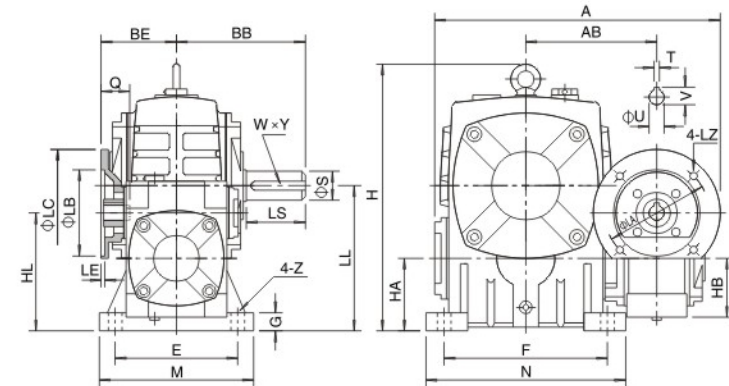


轴指向 SHAFT DIRECTION

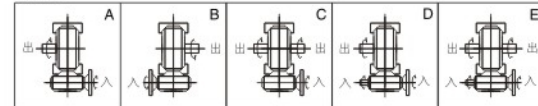


型号 Size	传动比 Ratio	A	AA	AB	BB	BE	HL	LL	H	HA	HB	M	N	E	F	G	Z	输入轴 Input shaft			输出轴 Output shaft			重量
		HS	U	TxV	LS	S	WxY	Weight(kg)																
40-70	1/200	262	171	126	131	89	110	140	236	70	50	150	190	115	150	20	15	25	12	4x2.5	60	28	8x4	20
50-80		297	197	144	142	107	130	160	268	80	65	170	220	135	180	20	15	30	12	4x2.5	65	32	10x5	27
60-100		363	231	175	169	122	160	200	336	100	75	190	270	155	220	25	15	40	15	5x3	75	38	10x5	44
70-120		1/300	408	256	193	190	140	190	240	430	120	90	230	320	180	260	30	18	40	18	6x3.5	85	45	14x5.5
80-135	1/400	471	298	226	210	160	215	270	480	135	105	250	350	200	290	30	18	50	22	6x3.5	95	55	16x6	101
80-147	1/500	476	301	229	212	160	203	270	501	123	105	250	350	200	280	32	18	50	22	6x3.5	95	55	16x6	112
100-155	1/600	555	354	269	252	190	235	290	531	135	130	275	390	220	320	35	21	50	25	8x4	110	60	18x7	144
120-175	1/900	598	379	287	262	229	280	335	600	160	155	310	430	250	350	40	21	65	30	8x4	110	65	18x7	201
135-200		662	425	318	305	260	310	375	666	175	185	360	480	290	390	40	24	75	35	10x5	125	70	20x7.5	293
155-250		795	510	380	360	302	355	450	800	200	203	460	560	380	480	45	28	85	40	12x5	155	90	25x9	462

WPEDA型[MODEL]

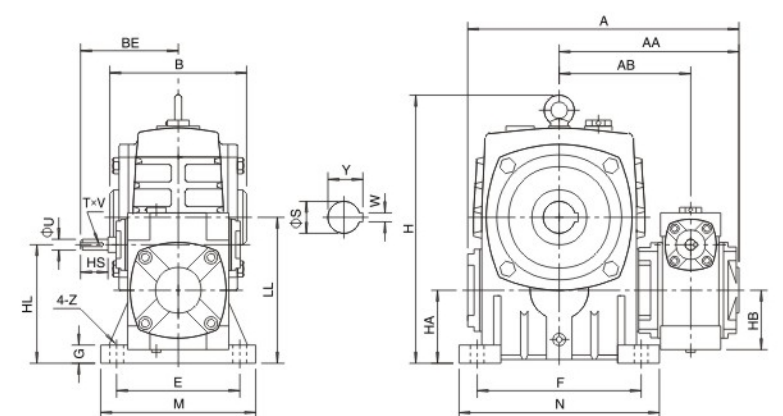


轴指向 SHAFT DIRECTION

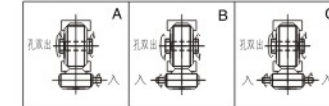


型号 Size	入功率 Input(kw)	传动比 Ratio	A	AB	BB	BE	HL	LL	H	HA	HB	M	N	E	F	G	Z	电机法兰 Flange					入力孔Input hole			输出轴 Output shaft			重量 Weight (kg)
																		LA	LB	LC	LE	LZ	Q	U	TxV	LS	S	WxY	
40-70	0.12	1/200	287	126	131	75	110	140	236	70	50	150	190	115	150	20	15	115	95	140	4	M8	31	11	4x12.8	60	28	8x4	19
50-80	0.18		314	144	142	83	130	160	268	80	65	170	220	135	180	20	15	115	95	140	4	M8	31	11	4x12.8	65	32	10x5	27
60-100	0.37		387	175	169	91	160	200	336	100	75	190	270	155	220	25	15	130	110	160	4	M8	33	14	5x16.3	75	38	10x5	45
70-120	0.37		425	193	190	109	190	240	430	120	90	230	320	180	260	30	18	130	110	160	4	M8	40	14	5x16.3	85	45	14x5.5	75
	0.75		111			165																							
80-135	0.75	1/300	499	226	210	125	215	270	480	135	105	250	350	200	290	30	18	165	130	200		M10	48	19	6x21.8	95	55	16x6	103
	1.5																												
80-147	0.75	1/500	504	229	212	125	203	270	501	123	105	250	350	200	280	32	18	165	130	200		M10	48	19	6x21.8	95	55	16x6	114
	1.5																												
100-155	1.5	1/600	570	269	252	148	235	290	531	135	130	275	390	220	320	35	21	165	130	200		M10	52	24	8x27.3	110	60	18x7	147
120-175	2.2	1/900	631	287	262	181	280	335	600	160	155	310	430	250	350	40	21	215	180	250	5	M12	63	28	8x31.3	110	65	18x7	204
3.0																													
135-200	3.0	1/900	680	318	305	202	310	375	666	175	185	360	480	290	390	40	24	215	180	250	5	M12	63	28	8x31.3	125	70	20x7.5	298
4.0																													
155-250	4.0	1/900	815	380	360	224	355	450	800	200	203	460	560	380	480	45	28	215	180	250	5	M12	63	28	8x31.3	155	90	25x9	470
	5.5					247																							

WPEKA型[MODEL]

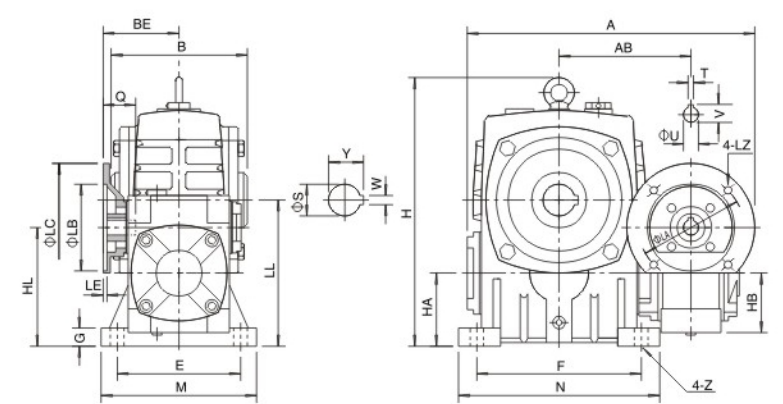


轴指向 SHAFT DIRECTION

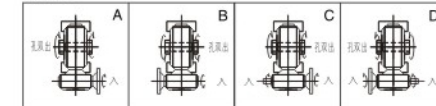


型号 Size	传动比 Ratio	A	AA	AB	B	BE	HL	LL	H	HA	HB	M	N	E	F	G	Z	输入轴 Input shaft			输出轴 Output shaft		重量 Weight (kg)
																		HS	U	TxV	S	WxY	
40-70	1/200 1/300 1/400 1/500 1/600 1/800 1/900	262	171	126	132	89	110	140	236	70	50	150	190	115	150	20	15	25	12	4x2.5	30	8x33.3	20
50-80		297	197	144	150	107	130	160	268	80	65	170	220	135	180	20	15	30	12	4x2.5	35	10x38.3	27
60-100		363	231	175	174	122	160	200	336	100	75	190	270	155	220	25	15	40	15	5x3	40	12x43.3	44
70-120		408	256	193	180	140	190	240	430	120	90	230	320	180	260	30	18	40	18	6x3.5	45	14x48.8	73
80-135		471	298	226	214	160	215	270	480	135	105	250	350	200	290	30	18	50	22	6x3.5	60	18x64.4	101
100-155		555	354	269	256	190	235	290	531	135	130	275	390	220	320	35	21	50	25	8x4	70	20x74.9	144
120-175		598	379	287	282	229	280	335	600	160	155	310	430	250	350	40	21	65	30	8x4	80	22x85.4	201
135-200		662	425	318	324	260	310	375	666	175	185	360	480	290	390	40	24	75	35	10x5	85	22x90.4	293
155-250		795	510	380	400	302	355	450	800	200	203	460	560	380	480	45	28	85	40	12x5	110	28x116.4	462

WPEDKA型[MODEL]



轴指向 SHAFT DIRECTION

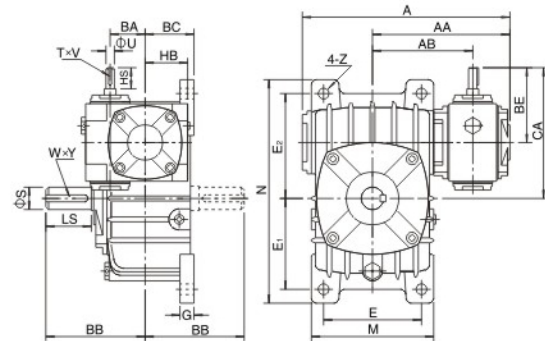


型号 Size	入功率 Input(kw)	传动比 Ratio	A	AB	B	BE	HL	LL	H	HA	HB	M	N	E	F	G	Z	电机法兰 Flange					入力孔 Input hole			输出轴 Output shaft		重量 Weight (kg)
																		LA	LB	LC	LE	LZ	Q	U	TxV	S	WxY	
40~70	0.12	1/200 1/300 1/400 1/500 1/600 1/800 1/900	287	126	132	75	110	140	236	70	50	150	190	115	150	20	15	115	95	140	4	M8	31	11	4x12.8	30	8x33.3	19
50~80	0.18		314	144	150	83	130	160	268	80	65	170	220	135	180	20	15	115	95	140	4	M8	31	11	4x12.8	35	10x38.3	27
60~100	0.37		387	175	174	91	160	200	336	100	75	190	270	155	220	25	15	130	110	160	4	M8	33	14	5x16.3	40	12x43.3	45
70~120	0.37		425	193	180	109	190	240	430	120	90	230	320	180	260	30	18	130	110	160	4	M8	40	14	5x16.3	45	14x48.8	75
	0.75		445			165												130	200	M10		42	19	6x21.8				
80~135	0.75		499	226	214	125	215	270	480	135	105	250	350	200	290	30	18	165	130	200	4.5	M10	48	19	6x21.8	60	18x64.6	103
	1.5		52																				24	8x27.3				
100~155	1.5		570	269	256	148	235	290	531	135	130	275	390	220	320	35	21	165	130	200	4.5	M10	52	24	8x27.3	70	20x74.9	147
120~175	2.2		631	287	282	181	280	335	600	160	155	310	430	250	350	40	21	215	180	250	5	M12	63	28	8x31.3	80	22x85.4	204
135~200	3.0		680	318	324	202	310	375	666	175	185	360	480	290	390	40	24	215	180	250	5	M12	63	28	8x31.3	85	22x90.4	298
	4.0																											
155~250	4.0		815	380	400	224 247	355	450	800	200	203	460	560	380	480	45	28	215 265	180 230	250 300	5 5	M12 M12	63 83	28 38	8x31.3 10x41.3	110	28x116.4	470
	5.5																											

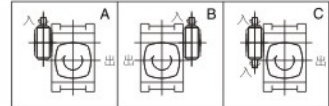
WPEX型[MODEL]



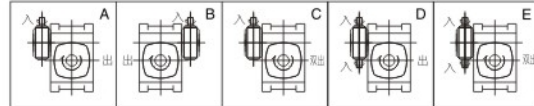
WPEO型[MODEL]



WPEX轴指向 SHAFT DIRECTION



WPEO轴指向 SHAFT DIRECTION

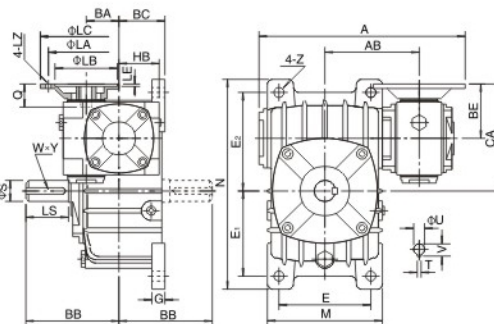


型号 Size	传动比 Ratio	A	AA	AB	BA	BB	BC	BE	HB	CA	M	N	E	E ₁	E ₂	G	Z	输入轴 Input shaft			输出轴 Output shaft			重量 Weight(kg)
																		HS	U	TxV	LS	S	WxV	
40-70		262	171	126	40	131	65	89	50	159	156	295	120	120	135	20	15	25	12	4x2.5	60	28	8x4	19
50-80		297	197	144	50	142	70	107	65	187	175	320	140	130	150	20	15	30	12	4x2.5	65	32	10x5	27
60-100	1/200	363	231	175	60	169	90	122	75	222	224	375	190	155	180	26	15	40	15	5x3	75	38	10x5	44
70-120	1/300	408	256	193	70	190	100	140	90	260	266	450	220	185	215	30	18	40	18	6x3.5	85	45	14x5.5	63
80-135	1/400	471	298	226	80	210	110	160	105	295	306	495	260	210	235	30	18	50	22	6x3.5	95	55	16x6	96
80-147	1/500	476	301	229	80	212	113	160	105	307	310	556	250	254	254	32	18	50	22	6x3.5	95	55	16x6	112
100-155	1/600	555	354	269	100	252	140	190	130	345	350	590	290	245	295	35	21	50	25	8x4	110	60	18x7	149
120-175	1/800	598	379	287	120	262	150	229	155	404	394	640	320	267	323	40	21	65	30	8x4	110	65	18x7	191
135-200	1/900	662	425	318	135	305	175	260	185	460	440	710	370	290	360	40	24	75	35	10x5	125	70	20x7.5	278
155-250		795	510	380	155	360	200	302	203	552	510	860	440	350	440	45	28	85	40	12x5	155	90	25x9	442

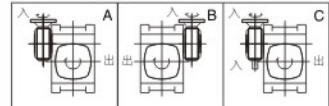
WPEDX型[MODEL]



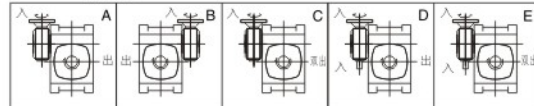
WPEDO型[MODEL]



WPEDX轴指向 SHAFT DIRECTION

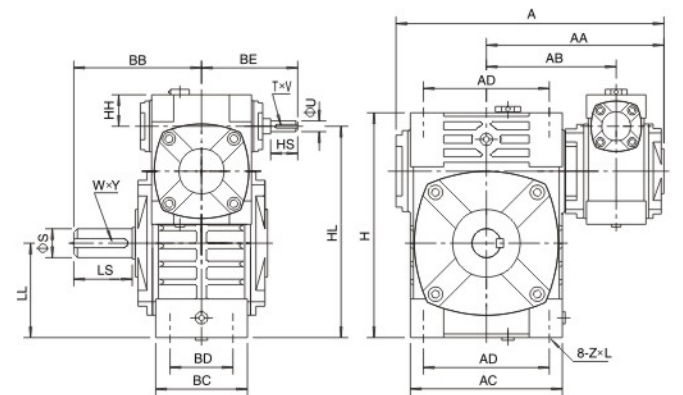


WPEDO轴指向 SHAFT DIRECTION

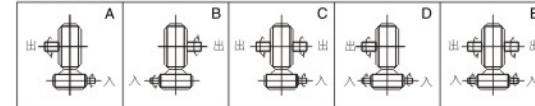


型号 Size	入功率 Input(kw)	传动比 Ratio	A	AB	BA	BB	BC	BE	HB	CA	M	N	E	E ₁	E ₂	G	Z	电机法兰 Flange					入力孔 Input hole			输出轴 Output shaft			重量 Weight(kg)
																		LA	LB	LC	LE	LZ	Q	U	TxV	LS	S	WxY	
40-70	0.12		287	126	40	131	65	75	50	145	156	295	120	120	135	20	15	115	95	140	4	M8	31	11	4x12.8	60	28	8x4	19
50-80	0.18		314	144	50	142	70	83	65	163	175	320	140	130	150	20	15	115	95	140	4	M8	31	11	4x12.8	65	32	10x5	27
60-100	0.37		387	175	60	169	90	91	75	191	224	375	190	155	180	26	15	130	110	160	4	M8	33	14	5x16.3	75	38	10x5	45
70-120	0.37		425	193	70	190	100	109	90	229	231	450	220	185	215	30	18	130	110	160	4	M8	40	14	5x16.3	85	45	14x5.5	65
70-120	0.75	1/200	445	193	70	190	100	111	90	231	266	450	220	185	215	30	18	165	130	200	4	M10	42	19	6x21.8	85	45	14x5.5	65
80-135	0.75	1/300	499	226	80	210	110	125	105	260	306	495	260	210	235	30	18	165	130	200	4.5	M10	48	19	6x21.8	95	55	16x6	98
80-147	1.5	1/400	499	226	80	210	110	125	105	260	306	495	260	210	235	30	18	165	130	200	4.5	M10	52	24	8x27.3	95	55	16x6	98
80-147	0.75	1/500	504	229	80	212	113	125	105	272	310	556	250	254	254	32	18	165	130	200	4.5	M10	52	24	8x27.3	95	55	16x6	114
100-155	1.5	1/600	570	269	100	252	140	148	130	303	350	590	290	245	295	35	21	165	130	200	4.5	M10	52	24	8x27.3	110	60	18x7	152
120-175	2.2	1/800	631	287	120	262	150	181	155	356	394	640	320	267	323	40	21	215	180	250	5	M12	63	28	8x31.3	110	65	18x7	194
120-175	3.0	1/900	631	287	120	262	150	181	155	356	394	640	320	267	323	40	21	215	180	250	5	M12	63	28	8x31.3	110	65	18x7	194
135-200	3.0		680	318	135	305	175	202	185	402	440	710	370	290	360	40	24	215	180	250	5	M12	63	28	8x31.3	125	70	20x7.5	283
135-200	4.0		680	318	135	305	175	202	185	402	440	710	370	290	360	40	24	215	180	250	5	M12	63	28	8x31.3	125	70	20x7.5	283
155-250	4.0		815	380	155	360	200	224	203	474	510	860	440	350	440	45	28	215	180	250	5	M12	63	28	8x31.3	155	90	25x9	450
155-250	5.5		815	380	155	360	200	247	203	497	510	860	440	350	440	45	28	265	230	300	5	M12	83	38	10x41.3	155	90	25x9	450

WPWE型[MODEL]

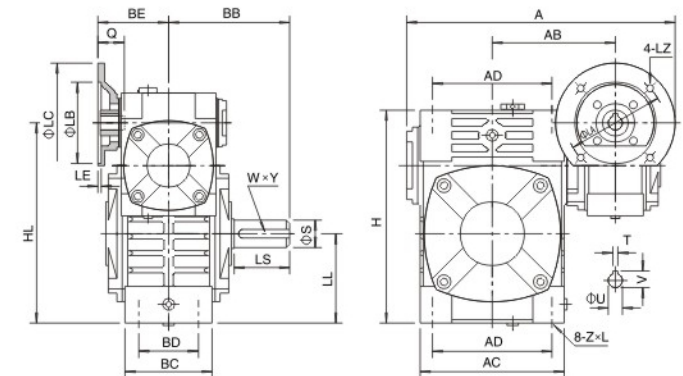


轴指向 SHAFT DIRECTION

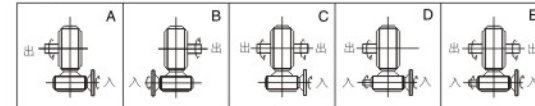


型号 Size	传动比 Ratio	A	AA	AB	BB	BE	AC	BC	AD	BD	HH	HL	LL	H	ZxL	输入轴 Input shaft			输出轴 Output shaft			重量 Weight(kg)
																HS	U	TxV	LS	S	TxV	
40-70		262	171	126	131	89	152	86	125	65	35	200	90	215	M10x25	25	12	4x2.5	60	28	8x4	17
50-80		297	197	144	142	107	169	102	140	70	35	235	105	250	M12x28	30	12	4x2.5	65	32	10x5	28
60-100	1/200	363	231	175	169	122	216	117	180	90	42	290	130	310	M12x30	40	15	5x3	75	38	10x5	43
70-120	1/300	408	256	193	190	140	256	124	220	100	55	345	155	370	M14x32	40	18	6x3.5	85	45	14x4.5	64
80-135	1/500	471	298	226	210	160	296	147	260	110	65	400	185	425	M16x35	50	22	6x3.5	95	55	16x6	99
100-155	1/600	555	354	269	252	190	345	185	280	120	80	458	203	461	M16x35	50	25	8x4	110	60	18x7	136
120-175	1/800	598	379	287	262	229	374	192	320	140	95	518	223	521	M16x35	65	30	8x4	110	65	18x7	193
135-200	1/900	662	425	318	305	260	412	230	360	150	105	580	245	575	M20x36	75	35	10x5	125	70	20x7.5	280
155-250		795	510	380	360	302	500	285	420	190	103	705	300	700	M24x42	85	40	12x5	155	90	25x9	442

WPWED型[MODEL]

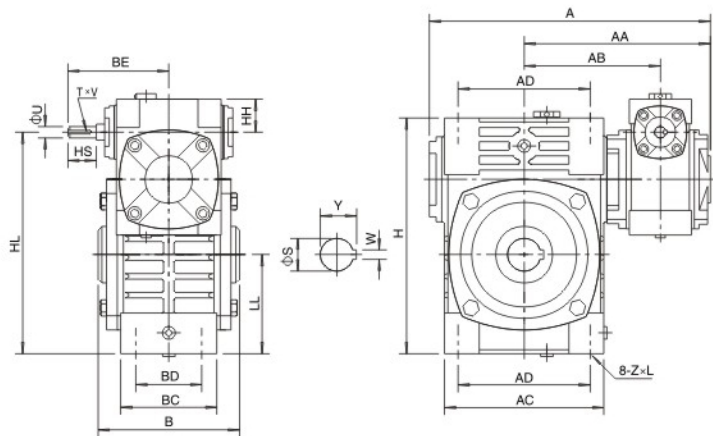


轴指向 SHAFT DIRECTION

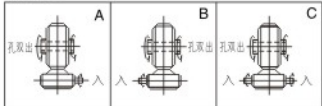


型号 Size	入功率 Input(kw)	传动比 Ratio	A	AB	BB	BE	AC	BC	AD	BD	HL	LL	H	ZxL	电机法兰 Flange					入力孔 Input hole			输出轴 Output shaft			重量 Weight (kg)	
															LA	LB	LC	LE	LZ	Q	U	TxV	LS	S	WxY		
40~70	0.12	1/200 1/300 1/400 1/500 1/600 1/800 1/900	287	126	131	75	152	86	125	65	200	90	215	M10x25	115	95	140	4	M8	31	11	4x12.8	60	28	8x4	17	
50~80	0.18		314	144	142	83	169	102	140	70	235	105	250	M12x28	115	95	140	4	M8	31	11	4x12.8	65	32	10x5	28	
60~100	0.37		387	175	169	91	216	117	180	90	290	130	310	M12x30	130	110	160	4	M8	33	14	5x16.3	75	38	10x5	44	
70~120	0.37		425	193	190	109	256	124	220	100	345	155	370	M14x32	130	110	160	4	M8	40	14	5x16.3	85	45	14x5.5	66	
	0.75		445	111	165	130									200	M10	42		19	6x21.8							
80~135	0.75		499	226	210	125	296	147	260	110	400	185	425	M16x35	165	130	200	4.5	M10	48	24	8x27.3	95	55	16x6	101	
	1.5		570	269	252	148	345	185	280	120	458	203	461	M16x35	165	130	200	4.5	M10	52	24	8x27.3					
100~155	1.5		631	287	262	181	374	192	320	140	518	223	521	M16x35	215	180	250	5	M12	63	28	8x31.3	110	60	18x7	139	
120~175	2.2		1/800 1/900	631	287	262	181	374	192	320	140	518	223	521	M16x35	215	180	250	5	M12	63	28	8x31.3	110	65	18x7	196
3.0																											
3.0																											
135~200	4.0	680	318	305	202	412	230	360	150	580	245	575	M20x36	215	180	250	5	M12	63	28	8x31.3	125	70	20x7.5	285		
155~250	4.0	815	380	360	224	500	285	420	190	705	300	700	M24x42	215	180	250	5	M12	63	28	8x31.3	155	90	25x9	450		
	5.5				265									230	300	5	M12	83	38	10x41.3							

WPWEK型[MODEL]

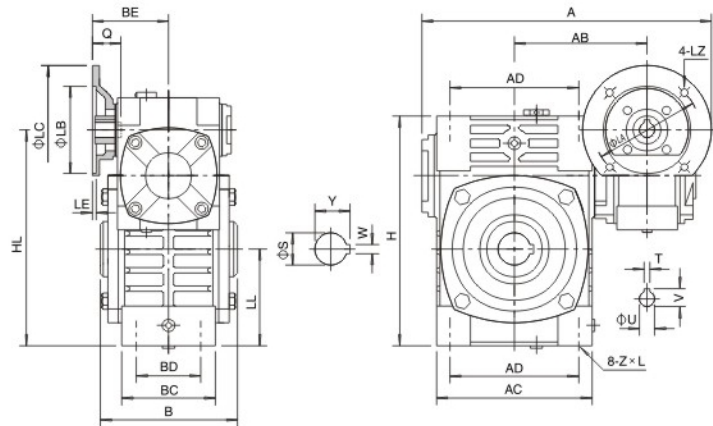


轴指向 SHAFT DIRECTION

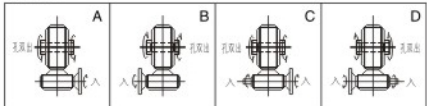


型号 Size	传动比 Ratio	A	AA	AB	B	BE	AC	BC	AD	BD	HH	HL	LL	H	ZxL	输入轴 Input shaft			输出轴 Output shaft		重量 Weight (kg)
																HS	U	TxV	S	WxY	
40-70	1/200 1/300 1/400 1/500 1/600 1/800 1/900	262	171	126	132	89	152	86	125	65	35	200	90	215	M10x25	25	12	4x2.5	30	8x33.3	17
50-80		297	197	144	150	107	169	102	140	70	35	235	105	250	M12x28	30	12	4x2.5	35	10x38.3	28
60-100		363	231	175	174	122	216	117	180	90	42	290	130	310	M12x30	40	15	5x3	40	12x43.3	43
70-120		408	256	193	180	140	256	124	220	100	55	345	155	370	M14x32	40	18	6x3.5	45	14x48.8	64
80-135		471	298	226	214	160	296	147	260	110	65	400	185	425	M16x35	50	22	6x3.5	60	18x64.4	99
100-155		555	354	269	256	190	345	185	280	120	80	458	203	461	M16x35	50	25	8x4	70	20x74.9	136
120-175		598	379	287	282	229	374	192	320	140	95	518	223	521	M16x35	65	30	8x4	80	22x85.4	193
135-200		662	425	318	324	260	412	230	360	150	105	580	245	575	M20x36	75	35	10x5	85	22x90.4	280
155-250		795	510	380	400	302	500	285	420	190	103	705	300	700	M24x42	85	40	12x5	110	28x116.4	442

WPWEDK型[MODEL]

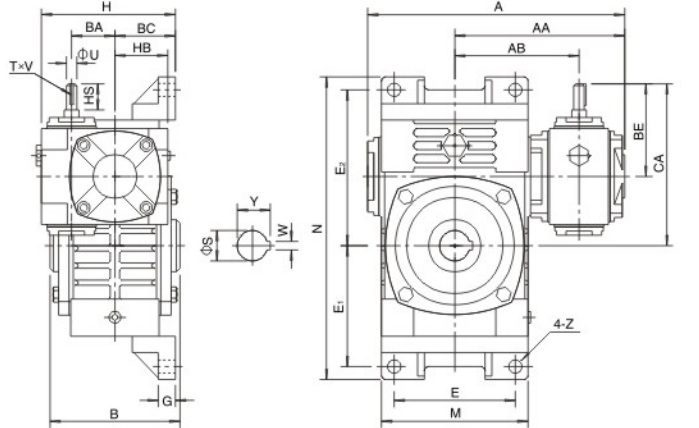


轴指向 SHAFT DIRECTION

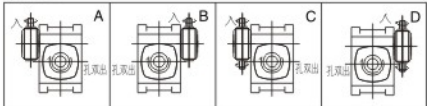


型号 Size	入功率 Input(kw)	传动比 Ratio	A	AB	B	BE	AC	BC	AD	BD	HL	LL	H	ZxL	电机法兰 Flange					入力孔 Input hole			输出轴 Output shaft		重量 Weight (kg)
															LA	LB	LC	LE	LZ	Q	U	TxV	S	WxY	
40-70	0.12	1/200 1/300 1/400 1/500 1/600 1/800 1/900	287	126	132	75	152	86	125	65	200	90	215	M10x25	115	95	140	4	M8	31	11	4x12.8	30	8x33.3	17
50-80	0.18		314	144	150	83	169	102	140	70	235	105	250	M12x28	115	95	140	4	M8	31	11	4x12.8	35	10x38.3	28
60-100	0.37		387	175	174	91	216	117	180	90	290	130	310	M12x30	130	110	160	4	M8	33	14	5x16.3	40	12x43.3	44
70-120	0.37		425	193	180	109	256	124	220	100	345	155	370	M14x32	130	110	160	4	M8	40	14	5x16.3	45	14x48.8	66
	0.75		445			111									M10	42	19		6x21.8						
80-135	0.75		499	226	214	125	296	147	260	110	400	185	425	M16x35	165	130	200	4.5	M10	48	19	6x21.8	60	18x64.4	101
	1.5		570	269	256	148	345	185	280	120	458	203	461	M16x35	165	130	200	4.5	M10	52	24	8x27.3	70	20x74.9	139
100-155	1.5		631	287	282	181	374	192	320	140	518	223	521	M16x35	215	180	250	5	M12	63	28	8x31.3	80	22x85.4	196
120-175	2.2		680	318	324	202	412	230	360	150	580	245	575	M20x36	215	180	250	5	M12	63	28	8x31.3	85	22x90.4	285
	3.0																								
135-200	4.0	815	380	400	224	500	285	420	190	705	300	700	M24x42	215	180	250	5	M12	63	28	8x31.3	110	28x116.4	450	
155-250	5.5				247										265	230	300	5	M12	83	38	10x41.3			

WPWEKO型[MODEL]

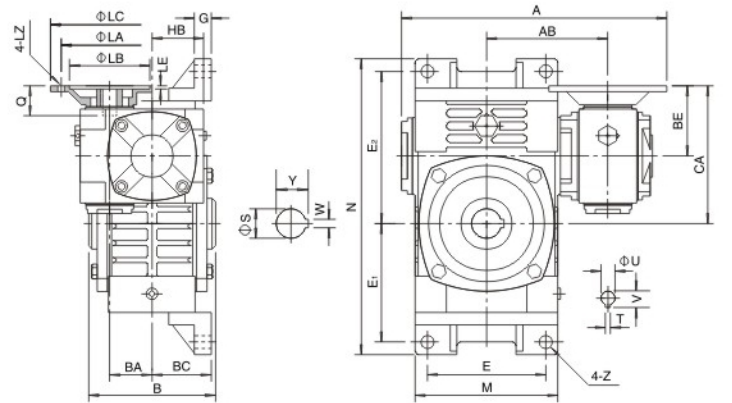


轴指向 SHAFT DIRECTION

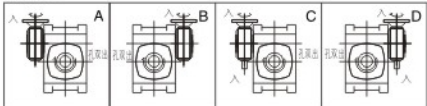


型号 Size	传动比 Ratio	A	AA	AB	B	BA	BC	BE	HB	CA	H	M	N	E	E ₁	E ₂	G	Z	输入轴 Input shaft			输出轴 Output shaft		重量 Weight (kg)
																			HS	U	TxV	S	WxY	
40-70	1/200 1/300 1/400 1/500 1/600 1/800 1/900	262	171	126	132	40	65	89	50	159	140	152	305	120	120	155	20	15	25	12	4x2.5	30	8x33.3	19.5
50-80		297	197	144	150	50	70	107	65	187	155	174	350	140	140	180	20	15	30	12	4x2.5	35	10x38.3	30.5
60-100		363	231	175	174	60	90	122	76	222	192	224	410	190	165	215	22	15	40	15	5x3	40	12x43.3	47
70-120		408	256	193	180	70	100	140	90	260	225	264	494	220	195	255	25	18	40	18	6x3.5	45	14x48.8	69
80-135		471	298	226	214	80	110	160	105	295	255	304	559	260	230	285	30	18	50	22	6x3.5	60	18x64.4	105
100-155		555	354	269	256	100	140	190	130	345	320	345	605	290	250	305	35	21	50	25	8x4	70	20x74.9	163
120-175		598	379	287	282	120	150	229	155	404	365	374	675	320	273	348	40	21	65	30	8x4	80	22x85.4	208
135-200		662	425	318	324	135	175	260	185	460	415	424	749	370	305	390	40	24	75	35	10x5	85	22x90.4	302
155-250		795	510	380	400	155	200	302	203	552	458	510	920	440	375	475	45	28	85	40	12x5	110	28x116.4	476

WPWEDKO型[MODEL]

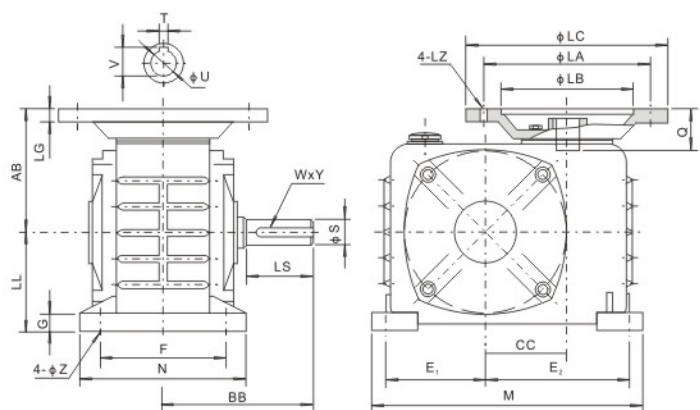


轴指向 SHAFT DIRECTION

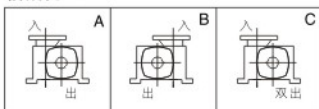


型号 Size	入功率 Input(kw)	传动比 Ratio	A	AB	B	BA	BC	BE	HB	CA	M	N	E	E ₁	E ₂	G	Z	电机法兰 Flange					入力孔 Input hole			输出轴 Output shaft		重量 Weight (kg)
																		LA	LB	LC	LE	LZ	Q	U	TxV	S	WxY	
40-70	0.12	1/200	287	126	132	40	65	75	50	145	152	305	120	120	155	20	15	115	95	140	4	M8	31	11	4x12.8	30	8x33.3	20
50-80	0.18		314	144	150	50	70	83	65	163	174	350	140	140	180	20	15	115	95	140	4	M8	31	11	4x12.8	35	10x38.3	31
60-100	0.37		387	175	174	60	90	91	75	191	224	410	190	165	215	22	15	130	110	160	4	M8	33	14	5x16.3	40	12x43.3	48
70-120	0.37	1/300	425	193	180	70	100	109	90	229	264	494	220	195	255	25	18	130	110	160	4	M8	40	14	5x16.3	45	14x48.8	71
	0.75		445	193	180	70	100	111		231	264	494	220	195	255	25	18	165	130	200		M10	42	19	6x21.8			
80-135	0.75	1/400	499	226	214	80	110	125	105	260	304	559	260	230	285	30	18	165	130	200	4.5	M10	48	19	6x21.8	60	18x64.4	107
	1.5		52	24	8x27.3																							
100-155	1.5	1/500	570	269	256	100	140	148	130	303	345	605	290	250	305	35	21	165	130	200	4.5	M10	52	24	8x27.3	70	20x74.9	166
120-175	2.2	1/600	631	287	282	120	150	181	155	356	374	675	320	273	348	40	21	215	180	250	5	M12	63	28	8x31.3	80	22x85.4	211
	3.0																											
135-200	3.0	1/800	680	318	324	135	175	202	185	402	424	749	370	305	390	40	24	215	180	250	5	M12	63	28	8x31.3	85	22x90.4	307
	4.0																											
155-250	4.0	1/900	815	380	400	155	200	224	203	474	510	920	440	375	475	45	28	215	180	250	5	M12	63	28	8x31.3	110	28x116.4	484
	5.5		247	497	265	230	300	5		M12	83	38	10x41.3															

WPDZ型[MODEL]

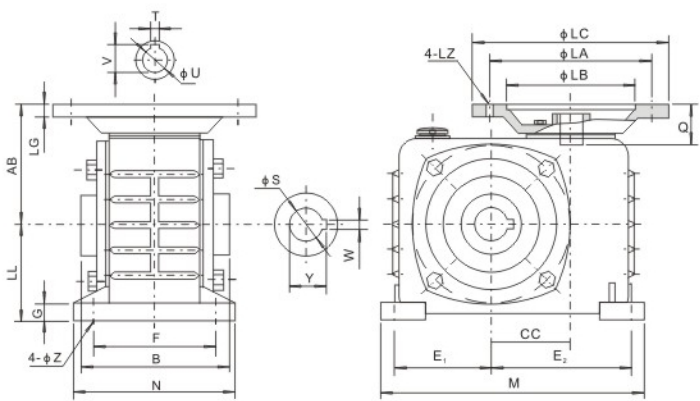


轴指向 SHAFT DIRECTION



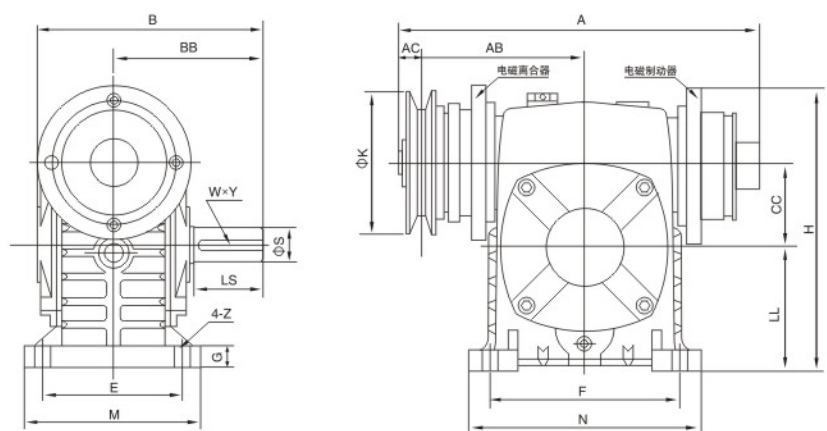
型号 Size	入功率 Input(kW)	传动比 Ratio	AB	LL	BB	CC	E ₁	E ₂	F	G	M	N	Z	电机法兰 Flange					入力孔 Input hole			输出轴 Output shaft			重量 Weight (kg)
														LA	LB	LC	LG	LZ	Q	U	TxV	LS	S	WxY	
50	0.18	1/5	87	76	95	50	53	77	100	15	160	125	11	115	95	140	10	M8	25	11	4x12.8	40	17	5x3	7.5
60	0.18		78	82	110	60	68	92	100	15	190	130	11	115	95	140	10	M8	25	11	4x12.8	50	22	7x4	12
70	0.37		101	95	130	70	75	120	120	20	230	155	15	130	110	160	10	M8	33	14	5x16.3	60	28	7x4	15
80	0.75		118	100	140	80	95	130	125	20	265	160	15	165	130	200	12	M10	43	19	6x21.8	65	32	10x4.5	22
100	1.5	1/25	145	135	155	100	105	155	155	22	310	195	15	165	130	200	12	M10	55	24	8x27.3	75	38	10x4.5	38
	2.2													215	180	250	15	M12	65	28	8x31.3				
120	2.2	1/50	160	160	185	120	120	180	180	28	360	230	18	215	180	250	18	M12	65	28	8x31.3	85	45	12x4.5	60
	3.0																								
135	4.0	1/60	183	170	210	135	130	200	200	30	390	250	18	215	180	250	20	M12	65	28	8x31.3	95	55	15x5	80

WPDKZ型[MODEL]

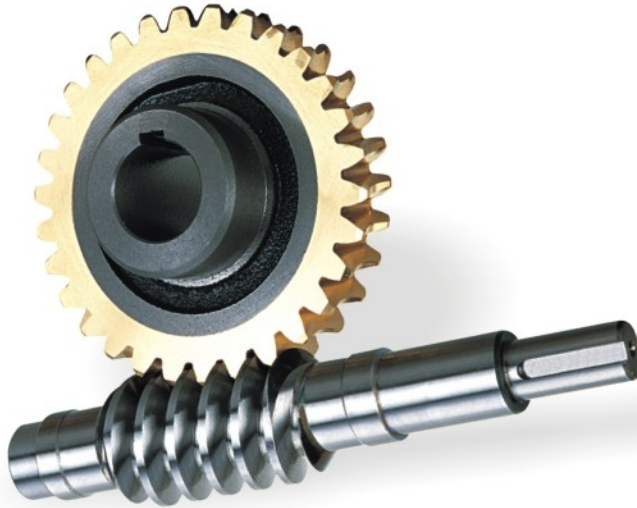


型号 Size	入功率 Input(kW)	传动比 Ratio	AB	B	CC	E ₁	E ₂	F	G	LL	M	N	Z	电机法兰 Flange					入力孔 Input hole			输出孔 Output hole	
														LA	LB	LC	LG	LZ	Q	U	TxV	S	WxY
50	0.18	1/5	87	107	50	53	77	100	15	76	160	125	11	115	95	140	10	M8	25	11	4x12.8	20	6x22.8
60	0.18		78	117	60	68	92	100	15	82	190	130	11	115	95	140	10	M8	25	11	4x12.8	25	8x28.3
70	0.37		101	131	70	75	120	120	20	95	230	155	15	130	110	160	10	M8	33	14	5x16.3	30	8x33.3
80	0.75		118	144	80	95	130	125	20	100	265	160	15	165	130	200	12	M10	43	19	6x21.8	35	10x38.3
100	1.5	1/25	145	175	100	105	155	155	22	135	310	195	15	165	130	200	12	M10	55	24	8x27.3	40	12x43.3
	2.2													215	180	250	15	M12	65	28	8x31.3		
120	2.2	1/50	160	200	120	120	180	180	28	160	360	230	18	215	180	250	18	M12	65	28	8x31.3	45	14x48.8
	3.0																						
135	4.0	1/60	183	212	135	130	200	200	30	170	390	250	18	215	180	250	20	M12	65	28	8x31.3	60	18x64.4

TWPS型[MODEL]



型号 Size	功率 Input(kW)	容量 Input(kg)	传动比 Ratio	A	AB	AC	B	BB	CC	H	K	LL	M	N	E	F	G	Z	出力轴 Output shaft			重量 Weight (kg)																			
																			LS	S	W×Y																				
50	0.18	0.6	1/10	226	108	20	150	97	50	180	76	80	120	140	95	110	15	12	40	17	5×3	9																			
60	0.18	0.6		250	116	20	168	112	60	190	76	90	130	150	105	120	20	12	50	22	6×3.5	12																			
	0.37	1.1		254	119	20				205	102																														
70	0.37	1.1		1/15	287	132	20	194	131	70	230	102	105	150	190	115	150	20	15	60	28	8×4	18																		
	0.75	2.2	1/20	322	145	23	238				127																														
80	0.75	2.2	1/25	338	152	23	214	142	80	270	127	120	170	220	135	180	20	15	65	32	10×5	25																			
	1.5	2.2	1/30																																						
100	1.5	4.4	1/40																				419	214	23	254	169	100	332	127	150	190	270	155	220	25	15	75	38	10×5	44
	2.2	4.4	1/50																																						
120	2.2	8	1/60	504	227	32	282	190	120	405	210	180	230	320	180	260	30	18	85	45	14×5.5	75																			
	3	8																																							



选型方法 Methods for model chosen

1. 选型要素

1.1 输入功率、输出转矩

输入功率和输出转矩的转换公式如下：

输入功率P(kW)=输出转矩T(N.m)x输出轴转速N₂(r/min)/(9549x效率 η)

减速机输入功率为减速机的输入动力容量，输出转矩为减速机许用承载能力， 均在产品的各“功率、转矩”表中列出，可供选型时参照选用。

1.2 输入轴转速、输出轴转速

输入轴和输出轴转速的转换公式如下：

输出轴转速N₂(r/min)=输入轴转速N₁(r/min)/传动比i

当减速机以皮带轮、链轮及联轴器传动时，输入轴转速不宜超过2000(r/min)，一般转速范围600~1800(r/min)，转速过高易使轴承加重磨擦而缩短寿命。

1.3 效率

效率计算公式如下：

效率 η=(输出功率 /输入功率)x100%

由于减速机运转时内部存在磨擦及振动，部分输入能量将转化为热能等非工作消耗，效率就是减速机输入能量的利用率，效率的高低取决于蜗杆头数、蜗杆转速、润滑油粘度、轴承摩擦阻力及蜗轮副材质的摩擦系数等。每种规格、传动比的减速机，其效率数值各不相同，下表列出效率的一般范围数值，可供选型时参考：

速比	1/10	1/15	1/20	1/25	1/30	1/40	1/50	1/60
效率	77~90%	76~88%	75~84%	72~82%	68~82%	64~75%	62~72%	60~71%

1.4 输入轴、输出轴回转方向

蜗杆减速机输出轴回转方向取决于蜗杆螺牙方向，基本型蜗杆减速机均为右旋螺牙。以公司产品样本上WPA照片为依据，面对输入轴、输出轴观看，当输入轴顺时针方向旋转时，输出轴旋转方向为逆时针；以WPS照片为依据，面对输入轴、输出轴观看，当输入轴顺时针方向旋转时，输出轴旋转方向为顺时针；其余各种输出轴装配结构可按以上方法判定转向。当按特殊需要蜗杆螺牙方向制成左旋时，情况正好相反。

1.5 工况系数

减速机在设计时，其输入动力容量及许用承载能力的强度计算按照每天连续运转八小时、载荷稳定不变的理想工况设定，在实际使用时，现场工况(如:是否有反复启动停止或频繁正反转，使用时间是否少于或多于八小时，冲击载荷大小及特性)可能与理想工况相差甚远，在选型时应予充分考虑，在选用减速机输入功率或输出转矩时，可按下列公式加以修正：

修正输出转矩T₂(N.m)=理论输出转矩T₁(N.m)x工况系数K

工况系数K表

原动机	载荷状况	每日运转时间(小时)			
		0.5~2	2~6	6~10	10~24
电动机	平稳载荷	0.80	0.90	1.00	1.25
	中等冲击	0.90	1.00	1.25	1.50
	较大冲击	1.00	1.25	1.50	1.75
注：当正反转或停开次数1小时内达10次以上时，上表K值还应乘以1.2					

1. Selection points

1.1 Input power & output torque

The formula of transforming input power to output torque listed as follows:

input power P(kW)= output torqueT(N.m)xoutput revolving speed N₂(r/min)/(9549xefficiency η)

Input power denotes the dynamical capacity of a reducer, and output torque denotes the maximum load a reducer allows, which are both listed in power and torque tables in order to serving selection.

1.2 Revolving speed of input shaft and output shaft

The formula of transforming input revolving speed to output listed as follows:

Output revolving speed N₂(r/min)= input revolving speed N₁(r/min)/ratio i

With belt–pulley, couplings or sprocket wheel shaft transmission, the input speed should not exceed 2000(r/min); the general range is 600–1800RPM. If the revolving speed is too high, the bearing will have less life due to over–friction.

1.3 Efficiencies

The efficiency calculation formula listed as follows:

Efficiency η=output power x100%/input power

Due to the internal vibration and wear, partial input energy will be transformed to be heat energy and fade away, Efficiency is the utilization ratios of input energy. The efficiency depends on worm’s tooth number, revolving speed, lubricant oil viscosity, bearing friction and worm gear’s material friction factor, Reducers with vary model or ratio have vary efficiency. The following table lists the range of the efficiency value.

Ratio	1/10	1/15	1/20	1/25	1/30	1/40	1/50	1/60
Efficiency	77~90%	76~88%	75~84%	72~82%	68~82%	64~75%	62~72%	60~71%

1.4 Revolving direction of input and output shaft

The revolving direction of output shaft relies on worm thread’s direction; right–directed thread is for basic use. According to the photograph of WPA in our product manual, facing input shaft and output shaft, when input shaft is in clockwise, output shaft is in counterclockwise; and according to the photograph of WPS, facing input shaft and output shaft, when input shaft is in clockwise, output shaft is in clockwise too; for other output shaft assembly structure, the method of ensuring revolving direction is as above. It will be adverse when the worm shaft is left–directed.

1.5 Service Factor

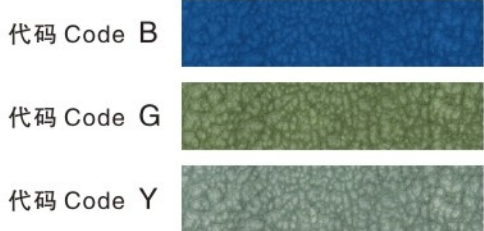
When reducer is designed, the input load capacity and allowed intensity are calculated per a continual operation of 8 hours a day and per the ideal conditions of a uniform load design. However, the on–site use(e.g. repetitive start–up, stop or obverse and reverse rotation, use time more or less than 8 hours a day, different value and characteristics of impact load from standard conditions and so on) may be different from ideal use Which should be taken into account. While selecting reducer input power or output torque, revise then according to the following formula:

Revised output torque T₂(N.m)=theoretic output torque T₁(N.m)Xrunning condition factor k

Table of Service factor k

Prime mover	Load	Operation time per day(hour)			
		0.5~2	2~6	6~10	10~24
Electromotor	Uniform	0.80	0.90	1.00	1.25
	Medium shock	0.90	1.00	1.25	1.50
	Heavy shock	1.00	1.25	1.50	1.75
Annotate:when the times of start-up,stop or obverse per hour is more than 10,the value K must multiply 1.2.					

1.6 产品标准色 Standard Color of Products



注意: 1. 常规减速机颜色为G。
2. 由于印刷原因, 颜色与实物有差异。
1. Coliur of normal reducer is G.
2. Due to printing limitation the color do not match the actual products exactly.

2. 选型实例 Selection example

2.1 基本情况 The basic condition

传动结构 Transmission struture	相关数据 Relative data
	- 起吊物体重量 W=600Kg - Weight of suspended object W=600Kg
	- 起吊物体速度 V=12m/min - Speed of suspended object V=12m/min
	- 滚轮直径 D=0.4m - Roll-pulley diameter D=0.4m
	- 皮带轮传动效率 $\eta_1=0.92$ - Efficiency of belt-pulley $\eta_1=0.92$
	- 减速机传动效率 $\eta_2=0.71$ - Efficiency of reducer $\eta_2=0.71$
	- 运转时间 8小时/日 - Running time 8 hours per day
	- 启动次数 2次/小时, 较大冲击 2 Times per hour heavy shock
	- 使用电源 三相380V, 50Hz - Electrical source three-phase 380V,50Hz

2.2 选型步骤 Selection steps

序号 Number	内容 Contents	计算公式 Formula	计算示例 Example
1	定传动比 Calculate ratio	根据输入轴及输出轴的转速确定传动比 1.计算皮带轮转速N3 N3=起吊速度V/(滚轮真径Dx π) 2.计算总传动比i i=输入轴转速N1/皮带转速N3 3.计算减速机传动比i1 i1=总传动比i/皮带轮传动传动比i2 Calculate the ratio according to input and output shaft revolving speed 1.get belt-pulley revolving speed N3 N3=speed of suspended object V/(roll-pulley diameter Dx π) 2.Calculate general ratio i i=Input revolving speed N1/belt-pulley revolvling speed N3 3.Calculate reducer ratio i1 i1=general ratio i2	1.N3=12/(0.4X3.142) =9.6r/min 2. i=1440/9.6 =150 3.设定 i2=5,则 i1=150/5 =30
2	计算输出转矩 Calculate output torque	计算减速机输出转矩T T=物体重量Wx10x滚轮半径 (D/2) / (皮带轮传动传动比i2x皮带轮传动效率 η_1) Calculate reducer output torque T T=weight of suspended object Wx10xroll-pulley radius(D/2)/(belt-pulley ratio i2x belt-pulley transmission efficiency η_1)	T=600x10x(0.4/2) /(5x0.92) =260.9N.m
3	修正输出转矩 Revise output torque	根据使用条件, 8小时运转、较大冲击, 工况系数K=1.5 计算修正输出转矩T1 T1=输出转矩TxK according to using condition:operation 8 hours a day,heavy shock, running condition factor K=1.5 calculate revised torque T1 T1=output torque Txk	T1=260.9x1.5 =391N.m
4	计算输入功率 Calculate input power	换算功率P P=修正输出转矩T1输出轴转速N2/(9549x减速机传动效率 η_2) Calculate input shaft power P P=revised output torque T1xoutput revolving speed N2/(9549xreducer transmission efficiency η_2)	P=391x(1440/30)/ (9549x0.71)=2.77kW
5	选型号规格 Select model	根据产品样本, 选定型号120.传动比1/30.输入轴功率3KW.输出轴转矩413N.m According to product manual, the selection is, Model 120, ratio 1/30.rating input power 3KW,output torque 413N.m	

选型参数 Parameter for model chose

WP.WPK.WPW.WPWK(A.S.X.O.T.V)型输入功率及输出轴转矩表Input and output

输入轴转速Speed of input shaft:1500r/min

功率及转矩 power and torque 传动比 Ratio 型号 Size	输入轴功率 Input(kw)								输出轴转矩 Output(N.m)							
	10	15	20	25	30	40	50	60	10	15	20	25	30	40	50	60
40	0.40	0.33	0.26	0.24	0.22	0.16	0.14	0.12	19	23	20	25	25	20	22	20
50	0.65	0.52	0.40	0.37	0.34	0.27	0.24	0.20	31	36	32	38	39	36	37	35
60	1.00	0.82	0.65	0.59	0.54	0.45	0.40	0.32	50	58	56	68	62	71	75	59
70	1.60	1.35	1.10	0.96	0.82	0.67	0.61	0.52	83	98	101	112	99	104	113	97
80	2.20	1.78	1.36	1.28	1.20	0.90	0.80	0.75	113	133	120	149	151	140	145	146
100	3.60	3.10	2.60	2.35	2.10	1.68	1.30	1.00	193	237	258	284	277	291	257	229
120	5.20	4.35	3.50	3.25	3.00	2.20	1.90	1.50	262	336	361	404	413	392	399	355
135	9.75	7.85	6.00	5.50	5.00	3.69	2.89	2.30	540	622	619	696	707	667	626	562
147	10.71	8.43	6.18	5.71	5.23	3.84	3.09	2.52	586	676	637	727	739	694	669	616
155	12.80	9.90	7.00	6.53	6.00	4.40	3.60	3.00	709	785	722	842	848	784	770	791
175	17.30	13.60	10.00	9.13	8.30	6.18	4.85	4.07	958	1091	1044	1221	1189	1133	1127	1078
200	22.60	18.20	13.86	12.75	11.67	8.78	6.71	5.58	1280	1477	1482	1643	1782	1654	1516	1449
250	33.20	27.40	21.60	20.00	18.43	14.00	10.43	8.62	1881	2310	2310	2579	2745	2674	2357	2371

注：型号147暂无WPW (A.S.X.O.T.V) 及WPWK(A.S.O.T.V)

WPD.WPDK.WPWD.WPWDK(A.S.X.O.T.V)型输入功率及输出轴转矩表Input and output

输入轴转速Speed of input shaft:1500r/min(配用A02或Y系列电机 Matching electrict motor series A02 or Y)

功率及转矩 power and moment 传动比 Ratio 型号 Size	输入轴功率 Input(kw)								输出轴转矩 Output(N.m)							
	10	15	20	25	30	40	50	60	10	15	20	25	30	40	50	60
40	0.12								6	8	9	13	14	15	19	20
50	0.18								9	12	14	19	20	24	28	34
60	0.37								19	26	34	42	42	58	67	73
70	0.75					0.37			39	54	70	87	95	58	68	70
80	1.5					0.75			77	112	142	174	189	117	136	146
100	1.5								80	115	149	181	198	260	307	344
120	3					2.2			151	232	310	372	413	392	480	521
135	4					3			219	321	413	509	565	542	649	690
147	4					3			219	321	413	509	565	542	649	690
155	5.5					4			305	411	525	709	760	713	853	1039
175	7.5					5.5			415	602	783	1002	1074	1008	1278	1450
200	11					7.5			623	892	1176	1417	1680	1413	1695	1948
250	15					11			850	1246	1604	1933	2234	2101	2486	3025

WPE. WPEK. WPWE. WPWEK. WPED. WPEDK. WPWED. WPWEDK (A.S.X.O)型

输入轴功率及输出轴转矩表 Input and output

输入轴转速 Speed of Input shaft:1500r/min

型号 Size	功率及转矩 Power and torque	WPE、WPEK、WPWE、WPWEK							WPED、WPEDK、WPWED、WPWEDK						
		传动比 Ratio							传动比 Ratio						
		200	300	400	500	600	800	900	200	300	400	500	600	800	900
40-70	输入轴功率 (kW)	0.48	0.34	0.28	0.25	0.23	0.20	0.17	0.12	0.12	0.12	0.12	0.12	0.12	0.12
	输出轴转矩 (N.m)	250	250	250	250	250	250	250	63	88	107	120	130	150	177
50-80	输入轴功率 (kW)	0.65	0.51	0.42	0.38	0.31	0.29	0.25	0.18	0.18	0.18	0.18	0.18	0.18	0.18
	输出轴转矩 (N.m)	350	350	350	350	350	350	350	97	124	150	166	203	217	252
60-100	输入轴功率 (kW)	0.95	0.67	0.52	0.44	0.40	0.35	0.33	0.37	0.37	0.37	0.37	0.37	0.37	0.37
	输出轴转矩 (N.m)	500	500	500	500	500	500	500	195	276	356	420	463	529	561
70-120	输入轴功率 (kW)	1.64	1.18	0.91	0.84	0.71	0.58	0.54	0.75	0.75	0.75	0.75	0.37	0.37	0.75
	输出轴转矩 (N.m)	840	840	840	840	840	840	840	384	534	692	750	486	536	887
80-135	输入轴功率 (kW)	2.50	1.75	1.39	1.19	1.08	0.98	0.85	1.5	1.5	1.5	1.5	0.75	0.75	1.5
	输出轴转矩 (N.m)	1400	1400	1400	1400	1400	1400	1400	616	880	1108	1294	1010	1071	1426
80-147	输入轴功率 (kW)	2.79	2.1	1.71	1.47	1.34	1.20	1.06	1.5	1.5	1.5	1.5	0.75	0.75	1.5
	输出轴转矩 (N.m)	1575	1575	1575	1575	1575	1575	1575	662	902	1208	1316	1300	1321	1575
100-155	输入轴功率 (kW)	3.69	2.92	2.41	2.07	1.89	1.69	1.50	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	输出轴转矩 (N.m)	2100	2100	2100	2100	2100	2100	2100	854	1079	1307	1522	1667	1864	2100
120-175	输入轴功率 (kW)	5.09	3.91	3.27	2.72	2.53	2.50	2.05	3	3	3	3	2.2	2.2	3
	输出轴转矩 (N.m)	3050	3050	3050	3050	3050	3050	3050	1798	2340	2798	3050	2500	2685	3050
135-200	输入轴功率 (kW)	7.22	5.41	4.46	3.83	3.46	2.91	2.71	4	4	4	4	3	3	4
	输出轴转矩 (N.m)	3950	3950	3950	3950	3950	3950	3950	2188	2920	3543	3950	3950	3950	3950
155-250	输入轴功率 (kW)	11.71	8.14	6.00	5.14	4.67	4.07	3.67	5.5	5.5	5.5	5.5	4	4	5.5
	输出轴转矩 (N.m)	6050	6050	6050	6050	6050	6050	6050	2841	4087	5546	6050	6050	6050	6050

注：型号80-147暂无WPWE(A.S.X.O.)及WPWEK(A.S.O.)

润滑油注油量(L)

Adding capacity of lubrication oil

机型 Type 型号 Size	WP(D.K)A	WP(D.K)S	WP(D.K)X.O	WPW(D)
40	0.1	0.2	0.2	0.2
50	0.2	0.4	0.5	0.4
60	0.3	0.5	0.6	0.5
70	0.6	0.9	1.2	0.8
80	1	1.3	1.5	1.5
100	1.7	2.7	3.9	2.6
120	2.8	4.5	5.8	4.5
135	4.5	7.2	8.6	5.6
147	4.2	7	11.1	-
155	5.9	10.3	14.2	11.7
175	7.5	12.1	16.7	13.9
200	12.2	18.9	27.2	16.7
250	22	33.9	48.9	30

注：型号147暂无WPW (A.S.X.O.T.V) 及WPWDK(A.S.O.T.V)

实际传动比

Actual Ratio

名义传动比 Ratio 实际传动比 Actual Ratio 型号 Size	10	15	20	25	30	40	50	60
40	10	15	20	25	30	40	50	60
50	10	15	20	25	30	40	50	60
60	10	15	20	25	30	39	50	60
70	10	15	20	25	30	40	50	60
80	10	15	20	25	30	40	50	60
100	10	15	20	25	30	40	50	60
120	10	15	19.5	25	30	39	50	60
135	10	15	20	25	30	40	50	60
147	9.667	14.5	20	25	29	40	50	61
155	10	15	20	25	30	40	50	59
175	10	15	20	25	30	40	50	60
200	10	15	20.5	25	30	41	50	60
250	10.25	15.25	20.5	25	30.5	41	50	61

使用说明 Operating installation

1. 安装注意事项

- 1.1 减速机须安装在平整坚固的底座上，底脚螺栓必须紧固、防震。
- 1.2 原动机--减速机--工作机的各联接轴伸，安装后必须互相准确对准轴线。
- 1.3 减速机输入端及输出端轴伸外径公差尺寸均按h6制作，与之相配的联轴器、皮带轮、链轮等传动件内孔须按合适的公差尺寸配制，避免装配过紧损坏轴承，装配过松影响正常动力传递。
- 1.4 链轮、齿轮等传动件装上轴伸时，应尽量靠近轴承，以减少轴伸弯曲应力。
- 1.5 WPD型减速机装配电机时，应在蜗杆头部内孔孔壁及键槽处涂抹黄油，避免装配过紧，防止轴孔日久生锈。
- 1.6 订购使用各类WPD减速机时，若电机重量偏大，应设支撑装置。

2. 使用注意事项

- 2.1 使用前应注意检查减速机型式结构、中心距规格、传动比、输入轴连接方式、输出轴结构、输入轴输出轴轴指向和回转方向等是否符合使用要求。
- 2.2 按照样本上“润滑油的选择使用”中所规定的要求，注入合适的品种牌号润滑油。加油后，旋紧顶部的通气器，拔掉通气器上之小锥塞，减速机方可开始运转。必须选用合适牌号的润滑油，必须控制适宜的加油量，必须按规定要求及时换油，尤其要重视首次使用100小时后的更换新油。
- 2.3 使用过程中发生不正常情况时，应及时停机检查，可参照“故障原因及解决办法”表处理。（减速机的油温最高允许达到95℃，在此温度界限下，只要油温不再上升，可以放心使用）。

1. Notices of installation

- 1.1 The base-plate must be plane and stoutness, and the base-bolts must be screwed down and shockproof.
- 1.2 The connecting shafts of prime mover , reducer and operation device must be coaxial after installation.
- 1.3 The diameter tolerance zone of input and output shaft is h6, the holes of fittings (such as couplings, belt-pulley, sprocket wheel and so on) must properly mate the shaft, which prevents bearing from breakage because of over-tight mate or avoid effecting normal power transmission because of over-loose mate.
- 1.4 Drivers such as sprocket wheel and gear must be fitted close to bearings in order to reduce bending stress of hanging shaft.
- 1.5 While assembling motor of WPD reducer, it is necessary that proper amount of butter applies to the worm shaft input hole and keyway, avoiding assembling too tightly and rusting after using for a long time.
- 1.6 When Ordering or using all kinds of WPD type, if the motor weight is bigger than the common, Supporting Set is required.

2. Notices of usage

- 2.1 Before using, please check carefully whether the reducer model, distance, ratio, input connecting method, output shaft structure, input and output shaft direction and revolving direction accord with requirement.
- 2.2 According to the requirement of “selecting lubricant oil” in the product manual, please fill proper category and brand lubricant. And then screw on the vent-plug, uncork the small cone-plug of vent-plug. Only After doing these, reducer is ready for starting up running. The proper brand and adequate lubricant oil is required; replacing oil in time conforming to the request of product manual is also necessary, especially after using first 100 hours, it is required refilling new oil.
- 2.3 When abnormal circumstances occur, please stop and check reducer per “solutions and reasons for faults of reducer” (allowable highest oil temperature is 95^oC, under this temperature limit, if oil temperature no more goes up, please let reducer continue running).

油品润滑 Lubricant

蜗轮减速机使用前应用注入N220~N320（环境温度-30℃~40℃）或N320~N460（环境温度25℃~65℃）润滑油至油标中心点之上，并取掉通气器上之小锥塞。首次使用100小时后，洗净内部换上新油，以后每2500小时换油一次。

Before operation, input N220~N320(Ambient temperature-30℃~40℃)、N320~460 (Ambient temperature 25℃~65℃)lubrication oil up to the center line of the oil gauge. In the meanwhile, remove the small screw of the air-vent. Afer having worked for 100 hours for the first time, must clear the inside and change the lubrication oil in it, here after once every 2500 hours.

减速机在使用时，可按下表选用润滑油。
Lubricants for a reducer used in foreign countries can be chosen from the table below.

Worm Shaft Speed(r/min)		Lubricant	Operating position Worm shaft, upper Worm shaft vertical	Operating position Worm shaft, lower Output Shaft Vertical
Over	up to			
1000	3000	Synthetic oils	PG460	PG220
	1000			PG460
2000	3000	Mineral oils	ISO VG460	ISO VG200
750	2000			ISO VG320
250	750			ISO VG460
	250		ISO VG680	ISO VG680

周围温度 Ambient Temp	负荷 Load	ISO VG	GB3141-82		Mobil		HOIYKER
-30℃ ~ -15℃	普通Commonly	VG-100	N100	Shell Omala 100	Gear 627	CARTER SY 100	HOIYKER SHC 100
	重Weight	VG-150	N150	Shell Omala 150	Gear 629	CARTER SY 150	HOIYKER SHC 150
-15℃ ~ 5℃	普通Commonly	VG-150	N150	Shell Omala 150	Gear 629	CARTER SY 150	HOIYKER SHC 150
	重Weight	VG-220	N220	Shell Omala 220	Gear 630	CARTER SY 220	HOIYKER SHC 220
5℃ ~ 25℃	普通Commonly	VG-220	N220	Shell Omala 220	Gear 630	CARTER SY 220	HOIYKER SHC220
	重Weight	VG-320	N320	Shell Omala 320	Gear 632	CARTER SY 320	HOIYKER SHC 320
25℃ ~ 40℃	普通Commonly	VG-320	N320	Shell Omala 320	Gear 632	CARTER SY 320	HOIYKER SHC 320
	重Weight	VG-460	N460	Shell Omala 460	Gear 634	CARTER SY 460	HOIYKER SHC 460
40℃ ~ 65℃	普通Commonly	VG-460	N460	Shell Omala 460	Gear634	CARTER SY 460	HOIYKER SHC 460
	重Weight	VG-680	N680	Shell Omala 680	Gear636	CARTER SY 680	HOIYKER SHC 680

After the first 100 hours of operation: Drain unit and flush with ligh oil.Refill.
Every 2500 hours of operation: Drain; flush and refill

故障分析 Malfunctions analysis

故障情况 Fault Situation	故障原因 Reasons	解决办法 Solutions
过热 Overheating	原动力、减速机、工作机连接不当 Improper connection among prime morer, reducer and the operation device	调整至适当位置，使三者相联轴线同轴 Adjust to proper position
	超负荷运转 Overloading	适当调整负荷 Adjust to proper load
	油封过度摩擦 Over friction of oil seals	在油封唇口处滴润滑油 Drop lubricant at oil seal
	润滑油过少或过多 Lubricant oil overmuch or shortage	按油标指示点调整油量 Adjust to proper oil quantity as indication
	润滑油杂质多或润滑性差 Much impurity in oil or inferior oil	更换合适新油 Refill proper oil
振动 Vibration	原动力、减速机、工作机固定不良 Prime mover, reducer and the operation device mount badly	查出不良固定部件，正确加固 Find out the bad place, tighteh it
	蜗轮副齿部磨损或损伤 Tooth surface of worm gear sets worn-out or damaged	更换蜗轮副（需要时本公司配合） Replace worm gear sets (we will cooperate with youwhen necessary)
	轴承磨损 Bearing worn-out	更换轴承 Replace Bearing
	螺栓松脱 Bolt loose	螺栓加固 Tighten Screw
杂音 Noise	轴承损伤或间隙过大 Baring damaged or too large clearance	更换轴承 Replace Bearing
	蜗轮副啮合不良 Worm gear sets mesh badly	修整齿面或更换蜗轮副（请与本公司联系） Mend tooth surface or replace worm gear sets (please contact to us)
	润滑油不足 Lubricant oil shortage	按油标指示点补加润滑油 Fill in adequate oil as indication
	机体内有异物 Foreign object in box	倒净润滑油取出异物，重加清洁润滑油 Discharge all the oil in order to put out foreign object, and refill clean oil
漏油 Oil leakage	油封唇口磨损 Oil seal lip worn-out	更换油封 Replace oil seal
	油封档轴颈磨损 Shaft of oil seal area worn-out	更换输出轴或输入轴 Replace input or output shaft
	油量过多 Too much oil	按油标指示点调整油量 Discharge adequate oil as indication
	放油螺塞未旋紧 Oil screw plug loose	螺纹处加密封胶，旋紧螺塞 Tighten oil screw plug
	油标破损 Oil gauge damaged	更换油标 Replace oil gauge
蜗轮副齿面 磨损过快 Tooth surface of worm gear sets abrade extra-quickly	超负荷运转 Overload	调整适当负荷 Adjust to proper loading
	润滑油不符合要求 Lubricant oil not according with requirement	更换合适的润滑油 Replace proper lubricant oil
	润滑油不足 Lubricant oil shortage	按油标指示点加足润滑油 Fill adequate oil as indication
	未按规定适时换油，润滑油劣化 Not replacing lubricant oil in time according to requirement, oil deteriorates	按规定要求适时更换润滑油 Replacing oil in time according to requirement
	运转温度过高 Overheating while running	1. 按“过热”故障处理 2. 采取合适措施，降低周边环境温度 1. Deal with it as“Overheating” 2. Adopting proper measures to make environment temperatur fall

注：如遇故障无法解决，请随时与我们联系，以便提供咨询服务。
Annotate: If other faults not listed above occur, Please contact with us at any moment,
Our company will supply thorough consultation and service.

SWL系列蜗轮丝杆升降机
SWL Worm Gear Screw Jack

产品图片 Products pictures



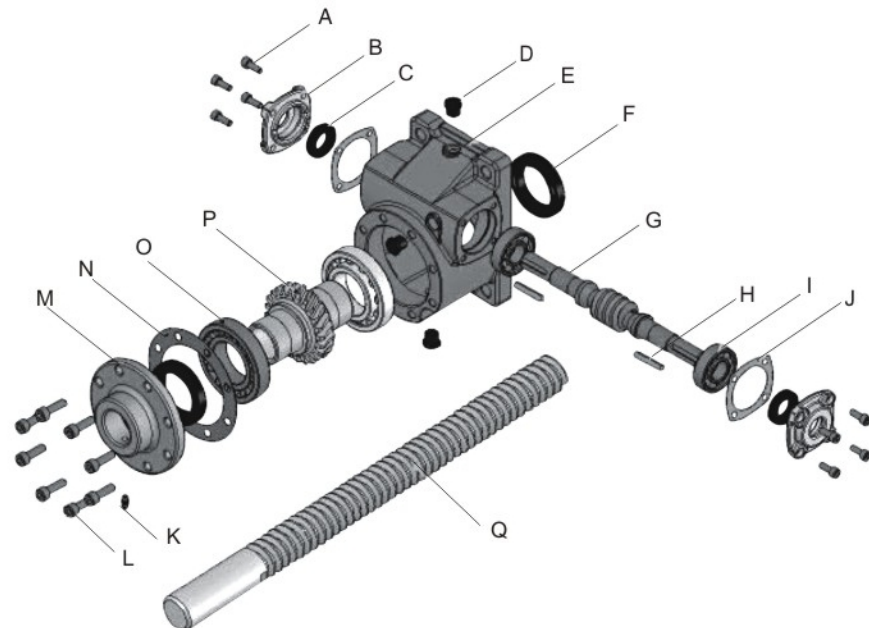
产品概述 Product summary

SWL 系列蜗轮丝杆升降机是一种基础升降设备，该产品广泛应用于机械、冶金、化工、医药、建筑、水利、文化等行业，具有起升、下降及借助辅助推进、翻转及多种高、低位置调整等诸多功能。具有结构紧凑、体积小、重量轻、动力源广泛、无噪音、安装方便、使用灵活、功能多、配套形式多、可靠性强、使用寿命长等许多特点。可以单台或多台组合使用，能按一定程序准确地控制调整提升或推进的高度，可以用电动或其他动力，也可以手动。有不同的结构型式和装配型式，提升高度按用户的要求定制，该装置可以自锁。

SWL series worm is a basis of lifting equipment, the products are widely used in machinery, metallurgy, chemical industry, medicine, building water conservancy, cultural industries, with decreased, and assistant auxiliary propulsion, turning and various high, location and other functions, and has the advantages of compact structure, small volume, light weight, wide range of power source, no noise, convenient installation, flexible use, multiple functions, supporting forms, high reliability, long service life and many other features, can be single or multiple combination to use, can accurately control to improve or promote the height according to certain procedures, can be used in electric or other power, or you can manually, with different structural forms and assembly, high bottom according to user requirements set.

产品结构 Product structre

- A-内六角螺丝 Socket head screw
- B-入力端盖 End cover into force
- C-油封 Oil seal
- D-放油螺栓 Oil drain bolt
- E-蜗轮箱 Worm gear box
- F-油封 Oil seal
- G-蜗杆 Worm
- H-键 Key
- I-轴承 Bearing
- J-石棉垫片 Asbestos gasket
- K-牛油嘴 Cattle nozzle
- L-内六角螺丝 Socket head screw
- M-出力端盖 Output end cover
- N-石棉垫片 Asbestos gasket
- O-轴承 Bearing
- P-蜗轮 Worm gear
- Q-丝杆 Screw



型式、规格及表示方法 Type and earmark

1. 结构型式 Structural mode

- I 型--丝杆同时作旋转运动和轴向移动（见图1）；
- II 型--丝杆作旋转运动，丝杆上的螺母作轴向移动（见图2）。
- Type I --Screw spins and rotate axially at the same time (see Figure 1);
- Type II --Screw spins while nut on screw is rotating axially (see Figure 2).

2. 装配型式 Assemblage mode

- 升降机每种结构型式又分为两种装配型式：
- A型--丝杆（或螺母）向上移动（见图1和图2）；
- B型--丝杆（或螺母）向下移动（见图1和图2）。
- There are 2 assemblage modes available for each of elevator structural mode:
- Type A--Screw (or nut) moves upwards (see Figure 1 and Figure 2);
- Type B--Screw (or nut) moves downwards (see Figure 1 and Figure 2).

3. 丝杆头部型式 Screw head mode

- I 型结构型式的丝杆头部分为 I 型(圆柱型)、II 型(法兰型)、III 型(螺纹型)和（扁头型）四种型式（见图1）；
- II 型结构型式的丝杆头部分为 I 型（圆柱型）和 III 型（螺纹型）两种型式（见图2）。
- There are IV types available for the head of screw with Type I structural mode; Type I (cylinder mode); Type II (flange mode); Type III (thread mode); and Type IV (flat head mode)(see Figure 1).
- There are II types available for the head of screw with Type II structural mode; Type I (cylinder mode); Type II (thread mode).

4. 传动比 Drive ratio

- 升降机分为两种传动比，即普通（P）和慢速（M）。
- There are 2 drive ratios available for elevator: common ratio (P) and slow-speed ratio (M).

5. 丝杆的防护 Screw protection

- I 型升降机丝杆的防护分为：基本型、防旋转型（F）和带防护罩型（Z）；
- II 型升降机丝杆的防护分为：基本型和带防护罩型（Z）。
- Protections available for Type I elevator are: basic type, anti-rotary type (F) or shielded type(Z);
- Protections available for Type II elevator are: basic type and shielded type (Z).

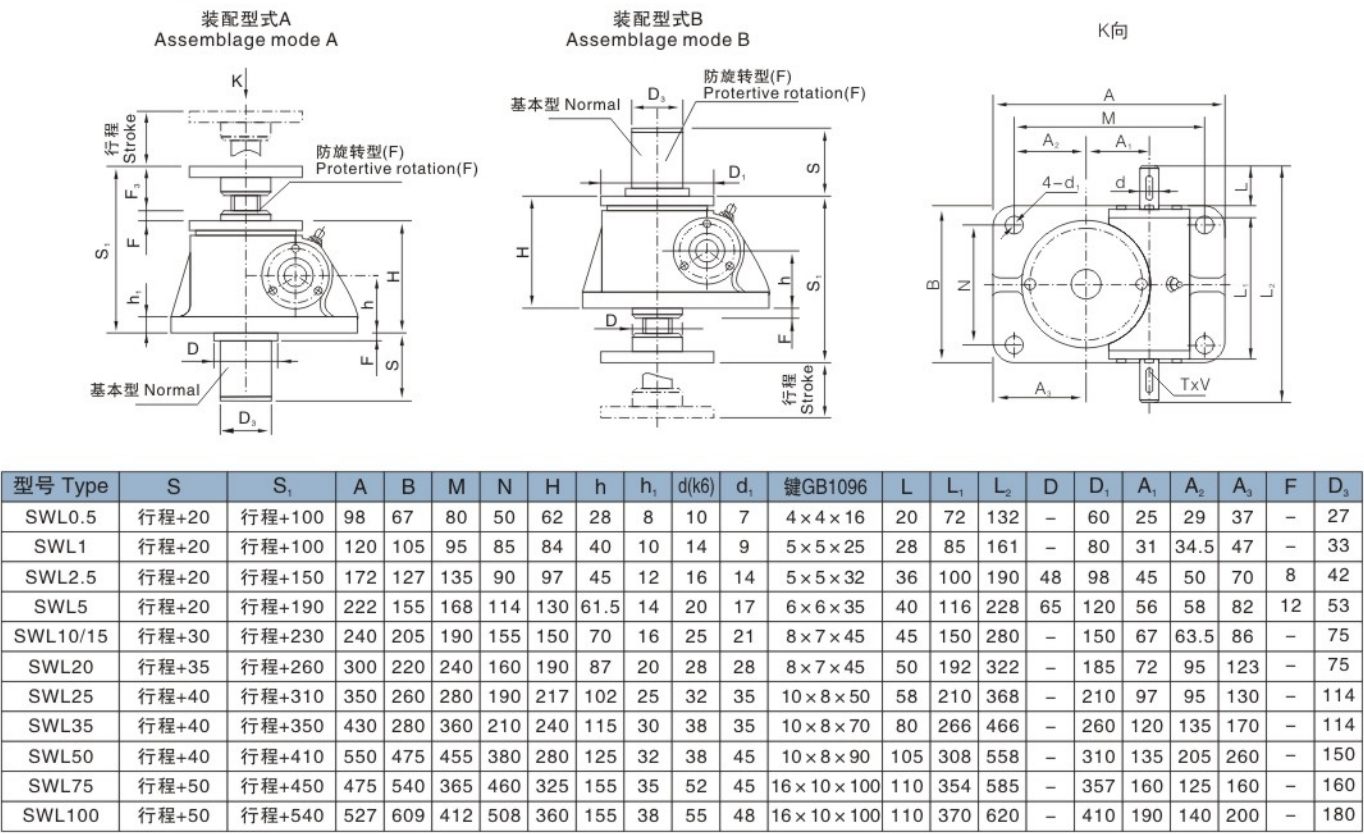


型号及标记 Mood & mark

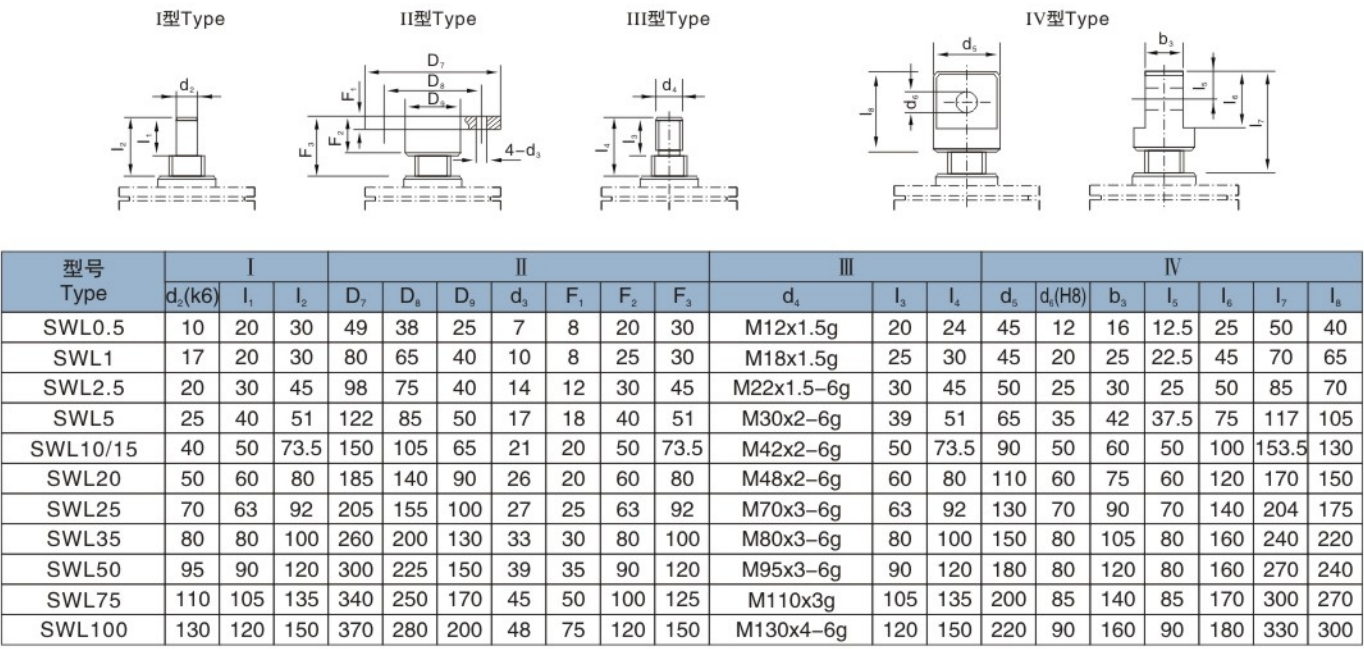
SWL	D	2.5	M	-1	A	II	-500	FZ	-A	
										轴指向 Shaft Direction
										丝杆防护型式代号 The code for worm maintenance
										丝杆行程 Worm moving distanceb (mm)
										丝杆头部型式代号 The code of warm head
										装配型式代号 The code for installation
										结构型式代号 The code for structure
										传动比代号 The code for driving rate
										承载能力(2.5-相当于2.5吨) Carrying capacity (2.5-The equivalent of about 2.5 tons)
										带电机法兰 With motor flange
										丝杆升降机 Worm gear screw jack

SWL外型及安装尺寸 Outline & installation sizes

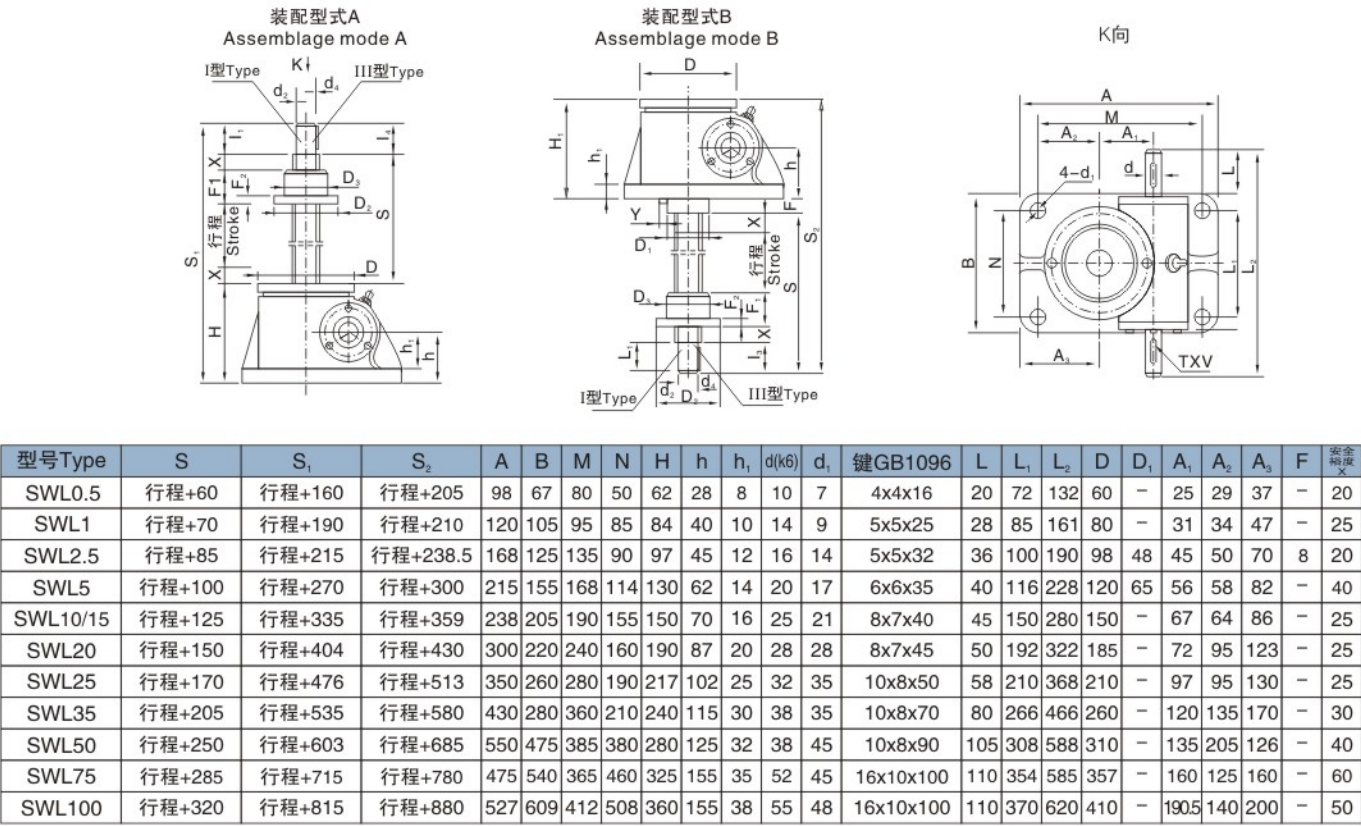
1. I 型结构型式 Type I structure



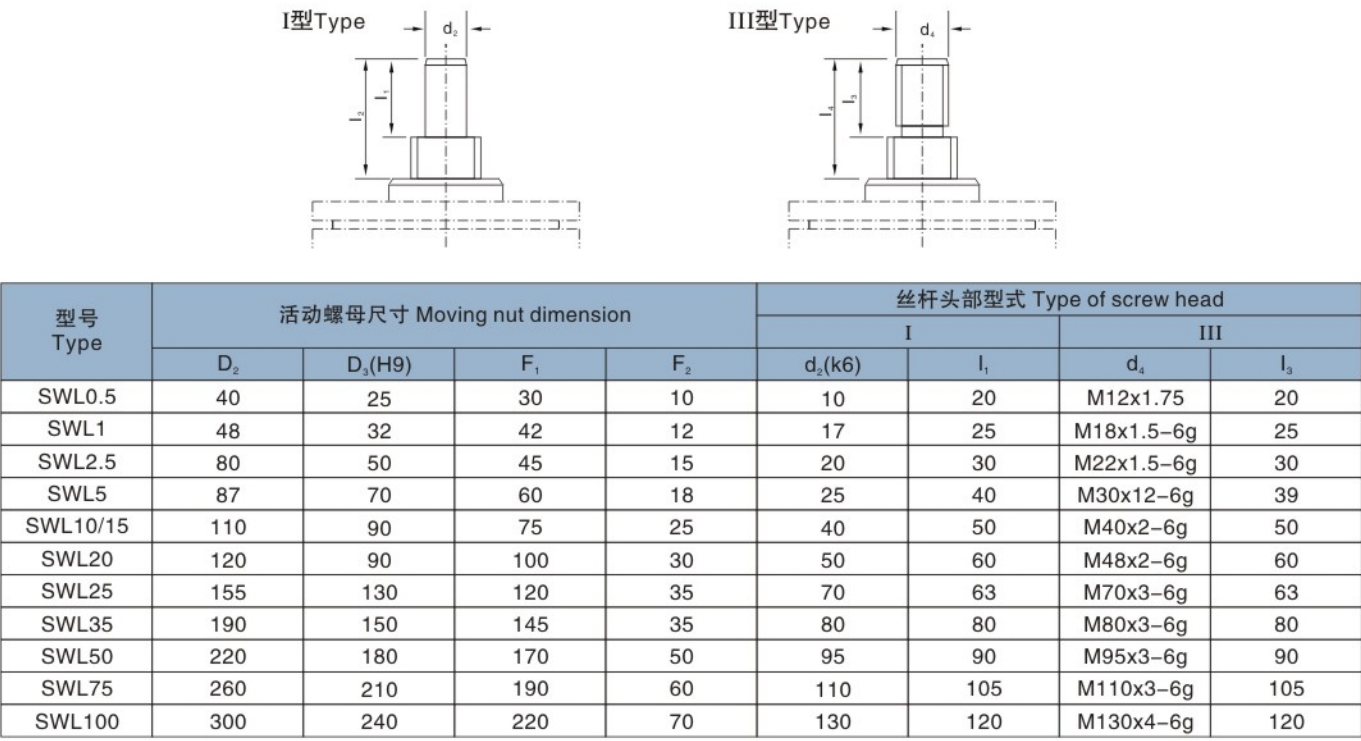
丝杆头部型式 Type of screw head



2. II 型结构型式 Type II structure



丝杆头部型式及螺母尺寸 Type of screw head and Moving nut dimension



3. 升降机的主要性能参数表 Performance parameters

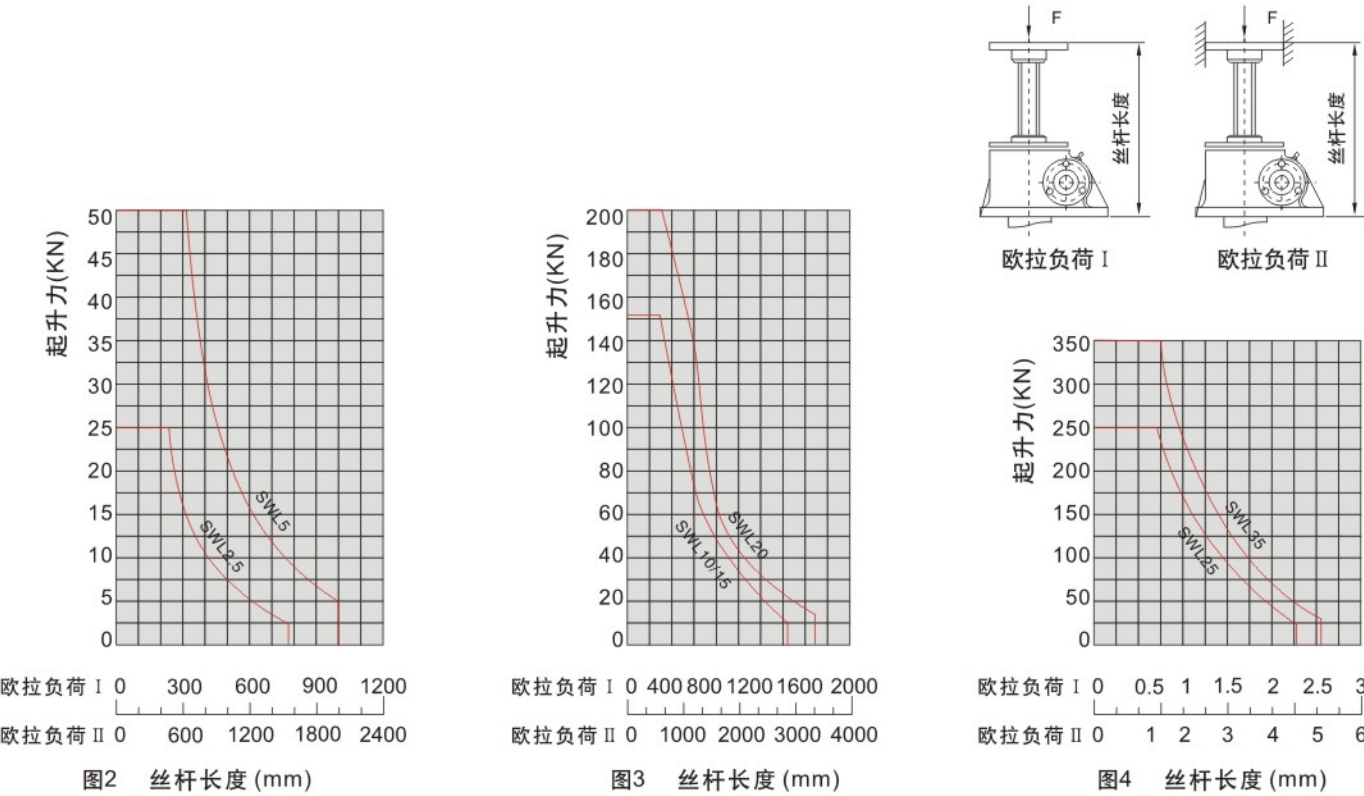
型号 Type		SWL0.5	SWL1	SWL2.5	SWL5	SWL10	SWL15	SWL20	SWL25	SWL35	SWL50	SWL75	SWL100
最大的起升力 (kN)		5	20	25	50	100	150	200	250	350	500	750	1000
丝杆螺纹尺寸		Tr16x4	Tr22x4	Tr30x6	Tr40X7	Tr58X12		Tr65x12	Tr90x16	Tr100x20	Tr120x20	Tr140x20	Tr160x23
最大拉力 (kN)		5	20	25	50	99		166	250	350	500	750	1000
蜗轮蜗杆传动比	P	1/11	1/6	1/6	1/8	3/23		1/8	3/32	3/32	1/11	3/36	1/12
	M	1/22	1/24	1/24	1/24	1/24		1/24	1/32	1/32	1/32	1/36	1/36
蜗杆每转行程 (mm)	P	0.36	0.8	1.0	0.875	1.565		1.56	1.5	1.875	1.818	1.92	1.56
	M	0.18	0.21	0.250	0.292	0.5		0.5	0.5	0.625	0.625	0.638	0.521
拉力负荷时丝杆的最大伸长 (mm)		600	1300	1500	2000	2500		3000	3500	4000	5500	6000	6500
最大压力负荷时	丝杆头部无导向	110	220	250	385	500	400	490	850	820	900	1000	1300
最大提升高 (mm)	丝杆头部导向	150	300	400	770	1000	800	980	1700	1640	1900	2000	1950
满载时蜗杆扭矩 (N.m)	P	7.5	15	18	39.5	119	179	240	366	464	650	720	760
	M	4	8.30	8.86	19.8	60	90	122	217	253	350	380	390
效率 %	P	18	20	22	23	20.5		19.5	16	18	20	18	18
	M	7	9	11	11.5	13		12.8	9	11	13	11	11
功率 (KW)		P=TXn/9550 {T: 扭矩 (N.m) ; n: 转速 (r/min) }											
不加行程的重量 (Kg)		3.5	6.3	7.3	16.2	25		36	70.5	187	295	588	1010
丝杆每 100mm 的重量 (Kg)		0.15	0.35	0.45	0.82	1.67		2.15	4.15	5.20	6.35	8.5	12.8
润滑剂		合成钙钠基润滑脂 ZGN-1 或 ZGN-2 (-20 ℃ ~+100 ℃)											
润滑脂量 (Kg)		0.03	0.08	0.1	0.3	0.5		0.75	1.1	1.9	2.2	4.3	5

4. 提升力和提升速度表 Lifting force and lifting speed

型号 Type	提升力 (kN)	提升速度 m/min (普通)	蜗杆转速 r/min	提升速度 m/min (慢速)	蜗杆转速 r/min	型号 Type	提升力 (kN)	提升速度 m/min (普通)	蜗杆转速 r/min	提升速度 m/min (慢速)	蜗杆转速 r/min
SWL2.5	25			0.0125	50	SWL20	200	0.15	100	0.10	200
	20			0.15	600		160	0.15	100	0.15	300
	15			0.188	750		120	0.30	200	0.15	300
	10			0.25	1000		100	0.30	200	0.25	500
	5			0.45	1800		75	0.45	300	0.375	750
SWL5	50	0.044	50	0.0146	50	SWL25	50	0.75	500	0.50	1000
	40	0.264	300	0.175	600		25	1.50	1000	0.90	1800
	30	0.264	300	0.219	750		250	0.075	50	0.025	50
	20	0.526	600	0.292	1000		200	0.15	100	0.10	200
	10	0.876	1000	0.525	1800		160	0.15	100	0.15	300
	5	1.575	1800	0.525	1800		130	0.30	200	0.15	300
SWL10	100	0.288	200	0.15	300	SWL35	100	0.45	300	0.25	500
	75	0.432	300	0.25	500		75	0.45	300	0.30	600
	50	0.432	300	0.375	750		50	0.90	600	0.50	1000
	35	0.864	600	0.90	1800		350	0.094	50	0.0313	50
	20	1.44	1000	0.90	1800		300	0.104	100	0.125	200
	10	2.592	1800	0.90	1800		250	0.208	100	0.188	300
SWL15	150	0.072	50	0.025	50		200	0.416	200	0.188	300
	100	0.288	200	0.15	300		150	0.624	300	0.313	500
	80	0.288	200	0.25	500		100	0.624	300	0.47	750
	60	0.432	300	0.30	600		50	1.248	600	0.626	1000
	40	0.720	500	0.50	1000						
	20	1.44	1000	0.90	1800						
	10	2.592	1800	0.90	1800						

注：表中参数是在环境温度 20℃，工作持续没小时 20% 或每分钟 40% 的情况下得出的；当超过表中数值时，提升元件会因过热而出现早期磨损，使用时，应严加注意。

5. 丝杆长度与极限负荷的关系 Relationship between the length of wire rod and the limit load



升降机的选型说明 Selection of instructions

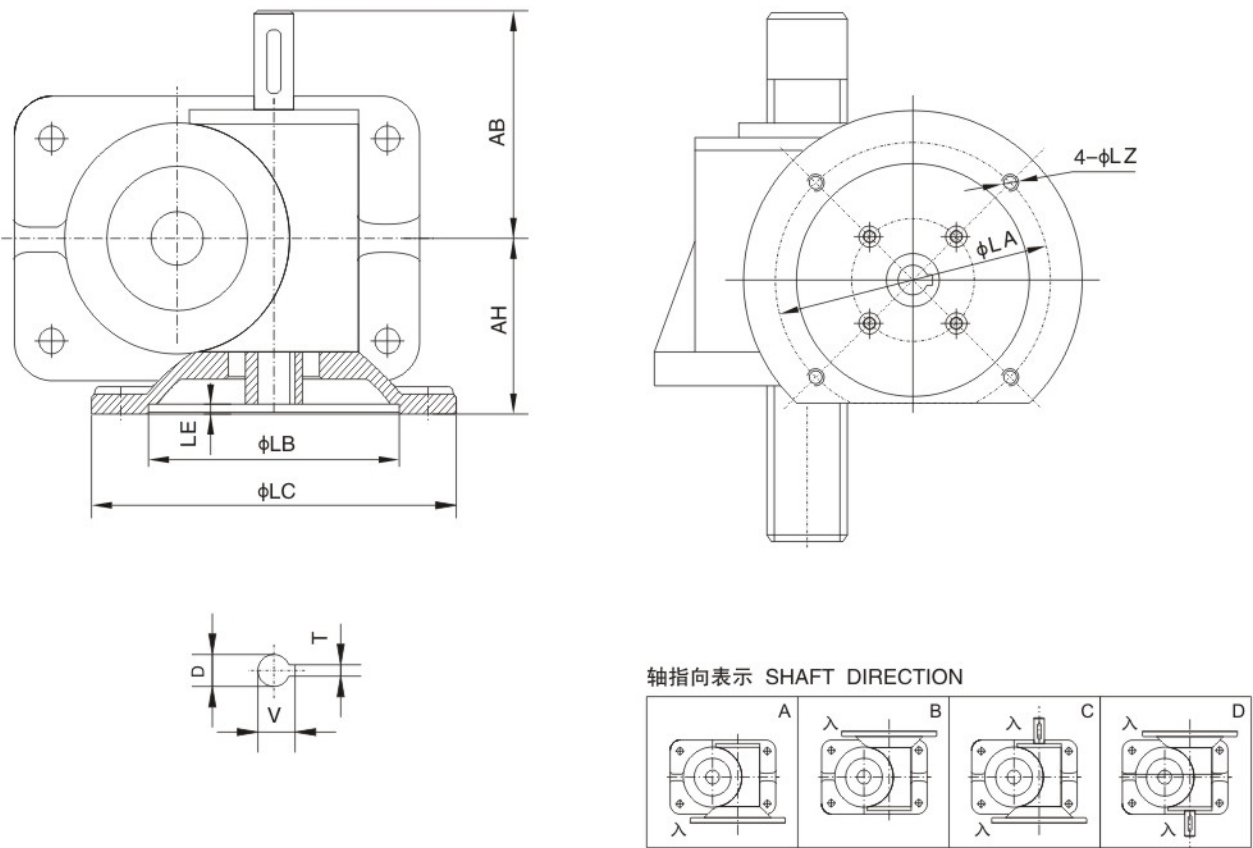
根据丝杆行程和提升负荷查图1~图4，找出所需升降机的型号，再查提升力和提升速度表，校核提升速度是否满足要求。
例：已知提升负荷为F=20KN，丝杆行程=400mm，提升速度V=0.65m/mim，试求所需的升降机。
根据F=20KN，丝杆行程=400mm查图2，选择SWL5升降机。再查提升力和提升力速度表核对SWL5升降机在25KN负荷下只允许0.526m/min的速度，只有重选大型号的升降机，再查提升力和提升速度表得知SWL10在20KN负荷下允许提升速度为1.44m/min而满足要求。

According to the wire rod stroke and improve load Chaturvedi 1-3 Figure 4, find out which model is the required lift, then check the lifting force and speed of lifting table check to enhance speed whether meet the requirements.
Example: the lifting load is F=20KN, the screw rod travel =400mm, the lifting speed is V=0.65m/mim, and the required lift is tried.
According to F=20KN, these 2 screw stroke =400mm, SWL5 elevator. Then check the lifting force and the lifting force of the speedometer speed check SWL5 lift under the load of 25kn only allows 0.526m/min and only gravity types of lifts, then check lifting force and speed of lifting table that SWL10 in under 20KN load allows for ascension speed for 1.44m/min and meet the requirements.

说明 Explain

- 1) 当压力负荷减小时，提升高度可随之增大(两者具体关系详见图2~图4);
 - 2) 在提升不同的负荷时，所允许的扭矩、功率、转速也不同，且不同工作持续率的最大功率也不同；
 - 3) 1型结构采用油脂润滑，随着温度的升高应及时补充润滑剂；
 - 4) 表中的效率为用油脂润滑条件下的参数；
 - 5) 工作期间应及时更换润滑剂；
 - 6) 工作环境温度：-20℃~+80℃；
 - 7) 在静止状态一般可以自锁。
- 1) When the pressure load is reduced, the lifting height can be increased (see figure 2-4);
2) In the lifting of different loads, the allowable torque, power and speed are also different, and the maximum power of different working duration is also different;
3) 1 Type structure is used for the lubrication of grease, and the lubricant is added with the increase of temperature;
4) The efficiency of the table is to use the parameters of oil lubricated condition;
5) During the period of work should be replaced by lubricant;
6) Working environment temperature: -20 ~+80;
7) In a static state, the general can be self-locking.

SWLD安装尺寸 Installation dimensions



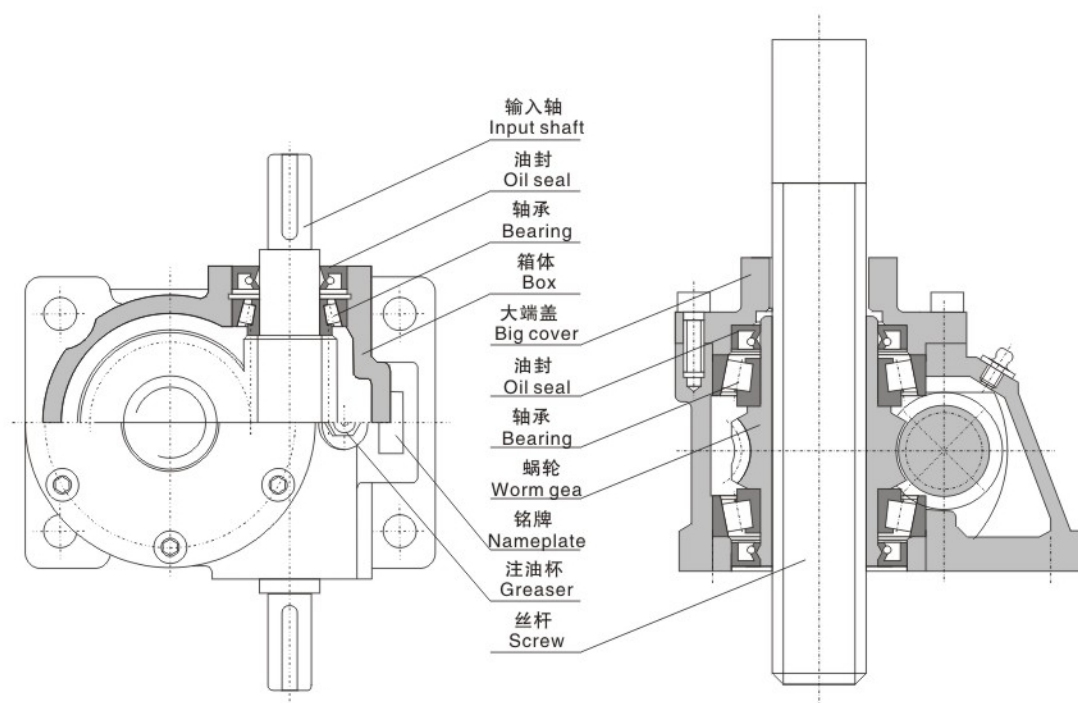
型号规格 Model size	入功率 (kw)	法兰 代号	AB	AH	LA	LB	LC	LE	LZ	D	TxV	电机 长度
SWLD1T	0.18	63B5	83	83	115	95	140	4	M8	$\phi 11$	4x12.8	207
SWLD2.5T	0.37	71B5	95	77	130	110	160	5	M8	$\phi 14$	5x16.3	225
SWLD5T	0.75	80B5	114	101	165	130	200	5	M10	$\phi 19$	6x21.8	255
	1.5	90B5								$\phi 24$	8x27.3	290
SWLD 10T/15T	1.5	90B5	140	113	165	130	200	5	M10	$\phi 24$	8x27.3	290
	2.2	100B5 112B5		155	215	180	250	5	M12	$\phi 28$	8x31.3	340
SWLD20T	2.2	100B5	161	148	215	180	250	5	M12	$\phi 28$	8x31.3	340
	3	112B5										
SWLD25T	4	100B5 112B5	177.5	157	215	180	250	5	M12	$\phi 28$	8x31.3	430
	5.5	132B5	184	193	265	230	300	5	M12	$\phi 38$	10x41.3	

HK系列蜗轮丝杆升降机
HK Worm Gear Screw Jack

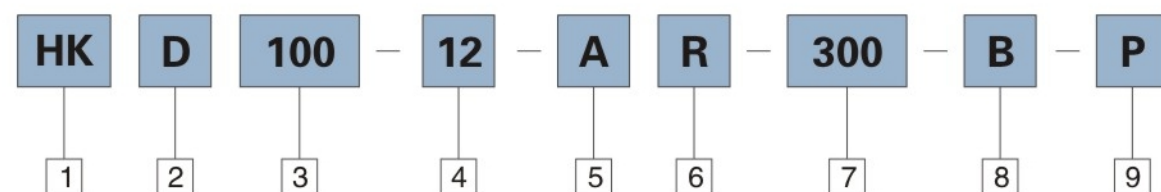
产品图片 Picture of products



产品结构 Product structure



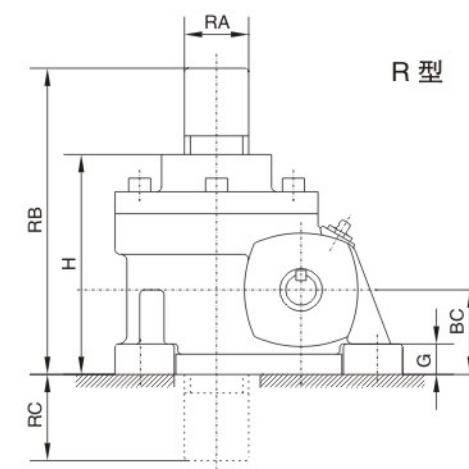
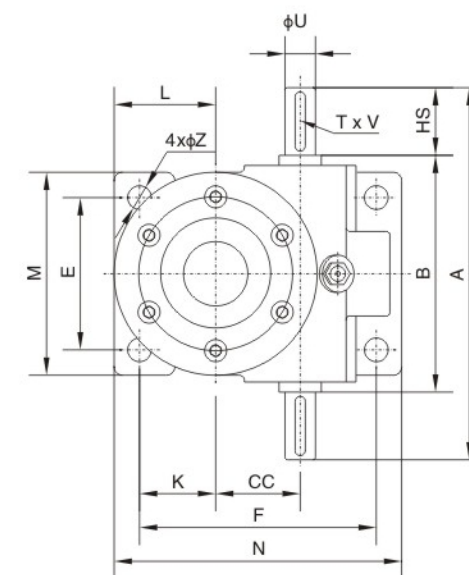
型号说明 Model introduction



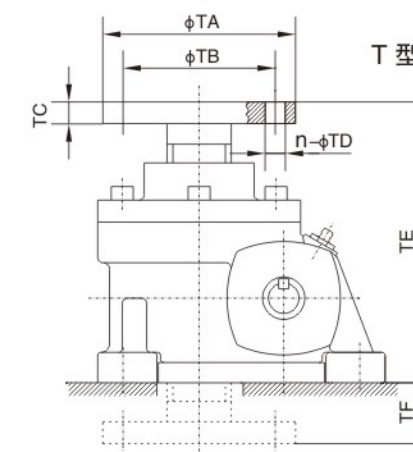
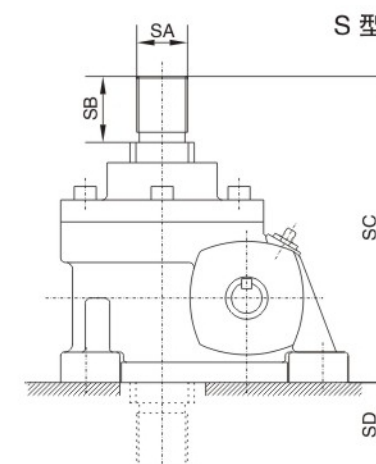
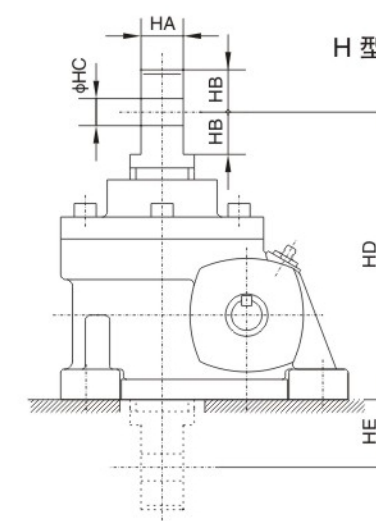
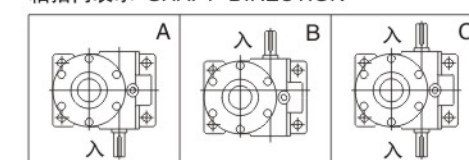
1 产品代码 Products code HK--蜗轮丝杆升降机 HK--worm gear linear actuator	2 输入轴联接方式 Connector of input shaft D--带电机法兰 无代码--基本型 D--with motor flange Non-code--basic	3 规格用蜗轮副 中心距表示100 Specification Expressed by the center distance of two pair Worm gear 100	4 传动比 Ratio 12 12	5 安装方式代码 Mounting Option code A、B--基本型 C、D--止旋构造型 E、F--活动螺母构造型 详见“5.3安装方式” A,B-- Basic Model C,D-- Screw fluctuate without rotation E,F-- Screw rotate without fluctuation more information from 5.3 Mounting option
6 丝杆头部型式代码 Code of screw head R型(圆柱式), H型(栓孔式) S型(螺纹式), T型(顶板式) 详见“产品图片” 注: 安装方式E、F时无此代码 R--Column type, H--Bolt hole type S--Screw type, T--Coping type Notes: Non-code-E, F mounting option	7 丝杆行程 300mm Stroke of screw 300mm 共有100、200、300、400、500、600、800、1000mm8种规格, 根据使用情况选择, 如需要其它长度行程, 也可定做 Total 8 species model:100,200,300,400,500,600,700,800,1000mm. choose according to using situation. If other modle needed, canbe made to order	8 轴指向 Shaft direction HK系列共有A、B、C三种 HKD系列共有A、B、C、D四种 详见“轴指向表示” HK series have A,B and C three species HKD series have A, B, C and D four species	9 护管 Safeguard pipe P--带护管 无代码--不带护管 注: 安装方式E、F时无此代码 P--With safeguard pipe Non-code--without safeguard pipe Notes: Non-code-E, F mounting option	

HK 安装尺寸 Installation dimensions

1. HK 安装尺寸 Installation dimensions

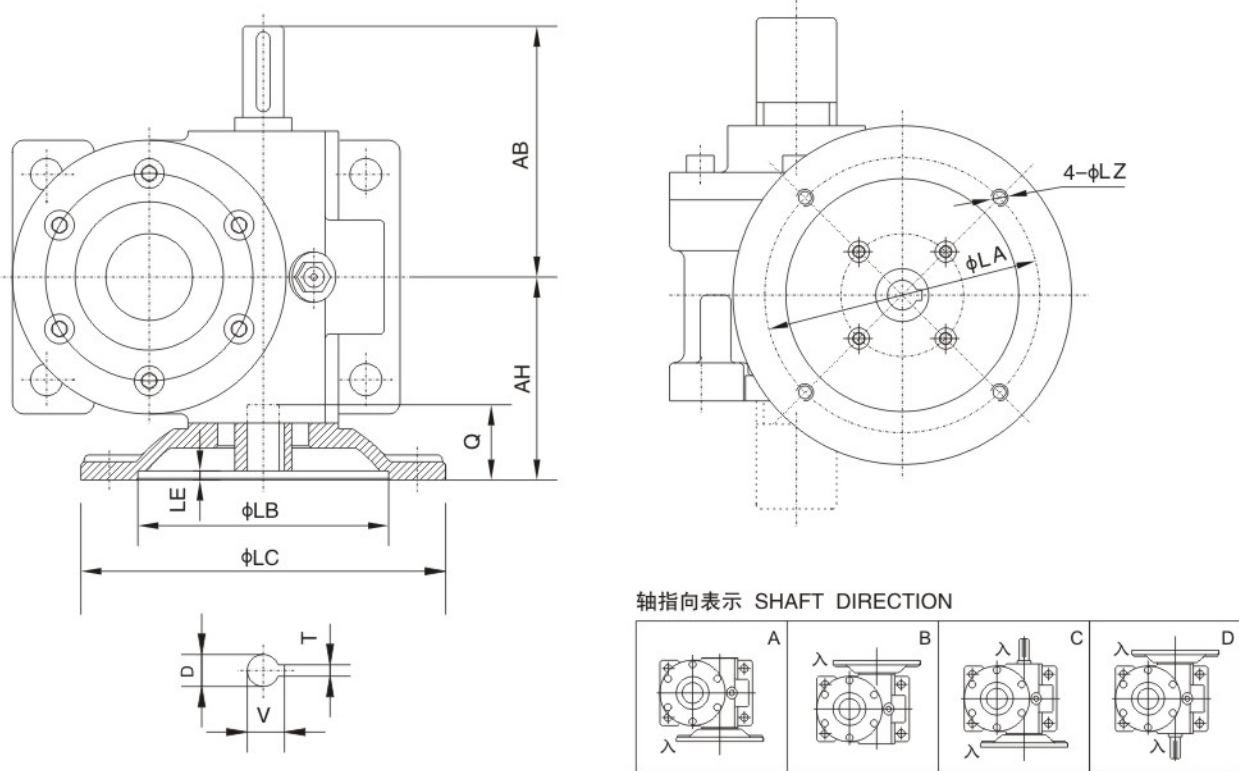


轴指向表示 SHAFT DIRECTION



型 号 规格 Model size	A	E	BC	CC	Tr	L	U	丝杆头部型式 Type of screw head						
	B	F	G	K		M	T x V	R 型	H 型		S 型		T 型	
	HS	Z	H			N		RA	HA	HD	SA	SB	TA	N-TD
								RB	HB	HE		SC	TB	TE
								RC	HC			SD	TC	TF
HK35	170	66	40	35	Tr26x5	50	15	26	16	165	M20x1.5	28	88	4-φ10
	110	111	15	38		90	5 x 3	165	20	55		150	70	135
	30	12	110			135		55	12			40	10	25
HK40	220	80	50	40	Tr32x6	57	18	32	20	195	M22x1.5	32	98	4-φ10
	140	125	18	42		110	6 x 3.5	195	25	65		180	80	160
	40	12	130			155		65	14			50	13	30
HK50	220	90	50	50	Tr38x6	60	22	38	25	195	M30x1.5	35	114	4-φ12
	140	140	18	45		120	6 x 3.5	195	25	65		180	90	160
	40	14	130			170		65	16			50	13	30
HK60	256	100	60	60	Tr46x8	90	25	46	32	255	M33x1.5	40	138	4-φ14
	176	190	20	70		140	8 x 4	225	32	95		220	100	200
	40	18	160			230		65	20			60	16	40
HK60B	264	110	60	60	Tr52x8	90	25	52	36	255	M39x1.5	45	148	4-φ18
	184	190	20	70		150	8 x 4	225	32	95		220	110	210
	40	18	160			230		65	24			60	20	50
HK70	316	140	70	70	Tr65x10	95	28	65	44	295	M45x1.5	55	178	4-φ21
	216	210	25	75		180	8 x 4	250	35	115		260	125	235
	50	18	180			250		70	26			80	25	55
HK100	390	190	85	100	Tr75x12	110	32	75	56	355	M60x2	65	188	4-φ21
	260	260	30	85		230	10 x 5	295	44	135		300	140	285
	65	22	220			310		75	35			80	28	65
HK120	420	210	100	120	Tr80x12	130	35	80	60	410	M64x2	70	218	4-φ25
	290	305	30	105		260	10 x 5	355	54	150		360	170	330
	65	22	260			355		95	38			100	30	70
HK130	480	240	120	130	Tr90x14	160	45	90	70	480	M76x2	75	248	4-φ27
	340	355	30	130		300	14 x 5.5	430	64	165		435	200	390
	70	22	315			415		115	45			120	32	75
HK150	550	250	125	150	Tr100x16	170	50	100	80	545	M90x2	100	358	6-φ27
	360	385	35	135		320	14 x 5.5	485	70	200		495	280	445
	95	27	345			455		140	55			150	35	100

2. HKD 安装尺寸 Installation dimensions



型号规格 Model size	法兰规格 Flange size	AB	AH	LA	LB	LC	LE	LZ	D	Q	TxV
HKD40	71B5	110	72	130	110	160	4	M8	φ14	33	5x16.3
HKD50	71B5	110	80	130	110	160	4	M8	φ14	33	5x16.3
HKD60	80B5	128	100	165	130	200	4.5	M10	φ19	43	6x21.8
	90B5								φ24	53	8x27.3
HKD60B	80B5	132	100	165	130	200	4.5	M10	φ19	43	6x21.8
	90B5								φ24	53	8x27.3
HKD70	90B5	158	120	165	130	200	4.5	M10	φ24	53	8x27.3
HKD100	100/112B5	195	150	215	180	250	5	M12	φ28	63	8x31.3
HKD120	100/112B5	210	165	215	180	250	5	M12	φ28	63	8x31.3
HKD130	132B5	240	194	265	230	300	5	M16	φ38	83	10x41.3
HKD150	132B5	275	218	265	230	300	5	M16	φ38	83	10x41.3

选型方法 Model selection for screw lifter

1. 选型要素 Selection points

1.1 总当量载荷计算 Total current load calculate

$W_s = W_{max} \times f_s$
Ws-当量载荷, Wmax-最大载荷, fs-使用系数 (详见附表1)
Ws-current load, Wmax-max load ,fs-using coefficient(more information from table1)

表1使用系数 fs Table 1 using coefficient(fs)

使用工况 Using situation	平稳载荷, 负荷惯性小 Smooth load;light load inertia	轻微冲击载荷, 负荷惯性中等 Light shock load; mid load inertia	强冲击负荷, 负荷惯性大 Strong shock load; heavy load inertia
使用系数 Using coefficient	1.0~1.3	1.3~1.5	1.5~3.0

1.2 单台升降机的当量载荷的计算 Current load calculate of unit screw lifter

$W = W_s / (S \times f_d)$
W-单台当量载荷, Ws-当量载荷, S -联动台数, fd-联动系数(详见附表2)
W-unit current load, Ws-current load ,S-linkage quantity,
fd--linkage coefficient(more information from table 2)

表2联动系数 fd Table 2 linkage coefficient(fd)

联动台数 Linkage quantity	1	2	3	4	5~8
使用系数 Using coefficient	1	0.95	0.9	0.85	0.8

1.3 暂定升降机型号 Choose screw model

根据载重、升降速度、行程、驱动源暂时选定升降机型号 (详情可参考“选型参数”)。
Choose screw model according to capacity, lifting speed, stroke and driveing fountainhead.

1.4 丝杆行程选定 Option stroke of screw

在充分考虑丝杆惯性、各种顶端输出部件等各种情况下, 选择有充分余量的丝杆行程。
丝杆计算 [详见表3, 丝杆行程用L表示, 单位(unit): mm]
Choose adequate stroke of screw with concerning enough screw movement inertia.
Calculate screw(more information from table 3)

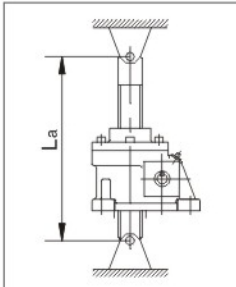
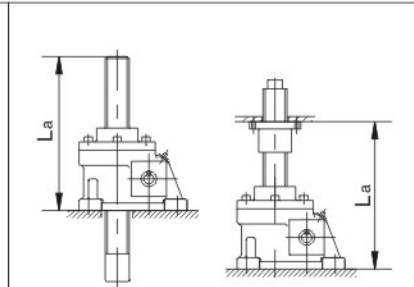
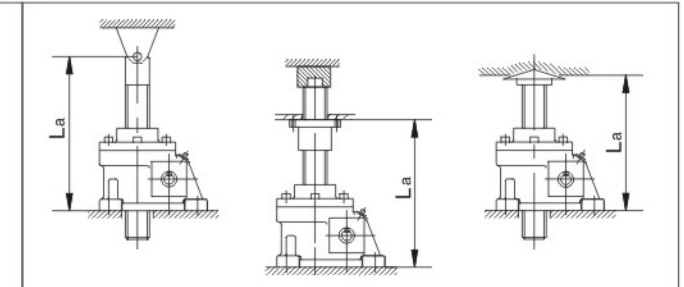
表3 丝杆计算 Screw calculate(more information from table 3)

型号 Model	丝杆直径 Screw dia	护管长 length of protect pipe	丝杆头部S型 "S"type screw end		丝杆头部H型 "H"type screw end		丝杆头部R型 "R"type screw end		丝杆头部T型 "T"type screw end	
			总长=L+SC	牙长=总长-SD	总长=L+HB+HD	牙长=总长-HB-HE	总长=L+RB	牙长=总长-RC	总长=L+TE	牙长=总长-TF
HK35-2T	Tr26 × 5	L+55	L+150	总长-40	L+20+165	总长-55-20	L+165	总长-55	L+135	总长-25
HK40-3T	Tr32 × 6	L+60	L+180	总长-50	L+25+195	总长-65-25	L+195	总长-65	L+160	总长-30
HK50-5T	Tr38 × 6	L+60	L+180	总长-50	L+25+195	总长-65-25	L+195	总长-65	L+160	总长-30
HK60-10T	Tr46 × 8	L+65	L+220	总长-60	L+32+255	总长-95-32	L+225	总长-65	L+200	总长-40
HK60B-15T	Tr52 × 8	L+65	L+220	总长-60	L+32+255	总长-95-32	L+225	总长-65	L+210	总长-50
HK70-20T	Tr65 × 10	L+75	L+260	总长-80	L+35+295	总长-115-35	L+250	总长-70	L+235	总长-55
HK100-30T	Tr75 × 12		L+300	总长-80	L+44+355	总长-135-44	L+295	总长-75	L+285	总长-65
HK120-40T	Tr80 × 12		L+360	总长-100	L+54+410	总长-150-54	L+355	总长-95	L+330	总长-70
HK130-50T	Tr90 × 14		L+435	总长-120	L+64+480	总长-165-64	L+430	总长-115	L+390	总长-75
HK150-100T	Tr100 × 16		L+495	总长-150	L+70+545	总长-200-70	L+485	总长-140	L+445	总长-100

1.5 丝杆稳定性校核 Check screw stability

$P_{cr} = f_m \times (d^2 / L_a)^2$
应确保 $P_{cr} > W \times S_f$ (一般 $S_f = 4$)
Pcr - 丝杆临界载荷(N)、fm - 长度系数(详见附表4)、d - 丝杆底径(mm)(详见附表5)、La - 作用点间距离(mm)
W - 单台升降机当量载荷(N)、Sf - 安全系数(一般取4)
 $P_{cr} = f_m \times (d^2 / L_a)^2$ 、Should insure $P_{cr} > W \times S_f$ (usual $S_f = 4$)、Pcr-Screw critical loading(N)
fm - Length coefficient(more information from table 4)、d - diameter of screw bottom(mm)(more information from table 5)
La - working length(mm)、W - Current load of unit screw lifter(N)、Sf - security coefficient(usual $S_f = 4$)

表4 长度系数(fm) Table 4 Length coefficient

 两端支撑 fm=10X10 ⁴ Two ends sustation	 底座固定轴端自由 fm=2.5X10 ⁴ One shaft end fixed the other free	 底座固定轴端支撑或固定 fm=20X10 ⁴ Base shaft end fixed the other side uphold or fixed
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1.6 丝杆转速校核 Screw speed check

$N_c = 96 \times 106 \times f_n \times d / L_b^2$
 $n_s = n_l / i$ 应确保 $n_c > n_s$
nc - 丝杆许用转速(r/min)、ns - 丝杆回转转速(r/min)、d - 丝杆底径(mm)、i - 减速比、n - 输入轴回转转速(r/min)
fn - 支撑系数(详见附表6)、Lb - 支撑间距离(mm)
 $n_c = 96 \times 106 \times f_n \times d / L_b^2$
 $n_s = n_l / i$ should insure $n_c > n_s$
nc - screw allowed speed(r/min)、ns - screw screwing speed(r/min)、d - diameter of screw bottom(mm)
i - ratio、nl - input shaft screwing speed(r/min)、fn - Sustation coefficient (more information from table 6)
Lb - the distance between sustation(mm).

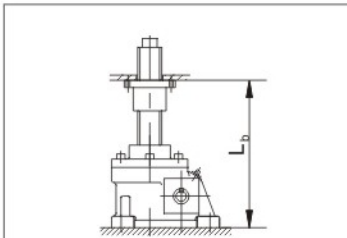
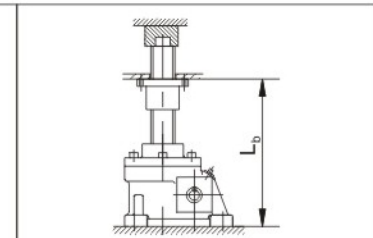
1.7 输入功率校核 Input power check

$P = n_1 \times p_1 \times w \times 10^{-3} / (60 \times i \times \eta)$ 应确保 $P < P_{额}$
p - 所需输入功率(KW)、p1 - 丝杆螺距(mm)、n1 - 输入轴回转转速(r/min)、W - 当量载荷(KN)、i - 减速比、η - 综合效率
 $P = n_1 \times p_1 \times w \times 10^{-3} / (60 \times i \times \eta)$ should insure $p < P_{rated}$
P - needed input power(KW)、p1 - axial pitch distance(mm)、n1 - input shaft screwing speed(r/min);
w - current load(KN)、i - ratio、η - general efficiency

表5 丝杆底径D Table 5 Diameter of screw bottom

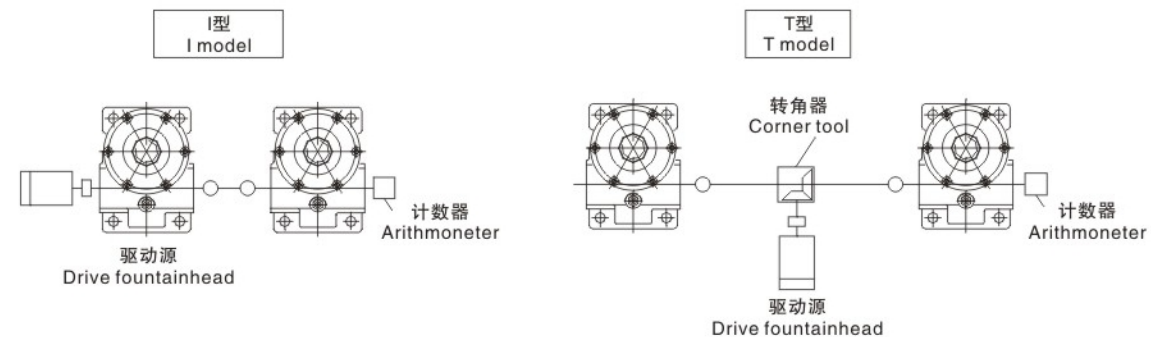
型号 Model	HK35	HK40	HK50	HK60	HK60B	HK70	HK100	HK120	HK130	HK150
丝杆底径 Diameter of screw bottom	20.5	25	31	37	43	54	62	67	74	82

表6 支撑系数(fn) Table 6 Sustation coefficient(fn)

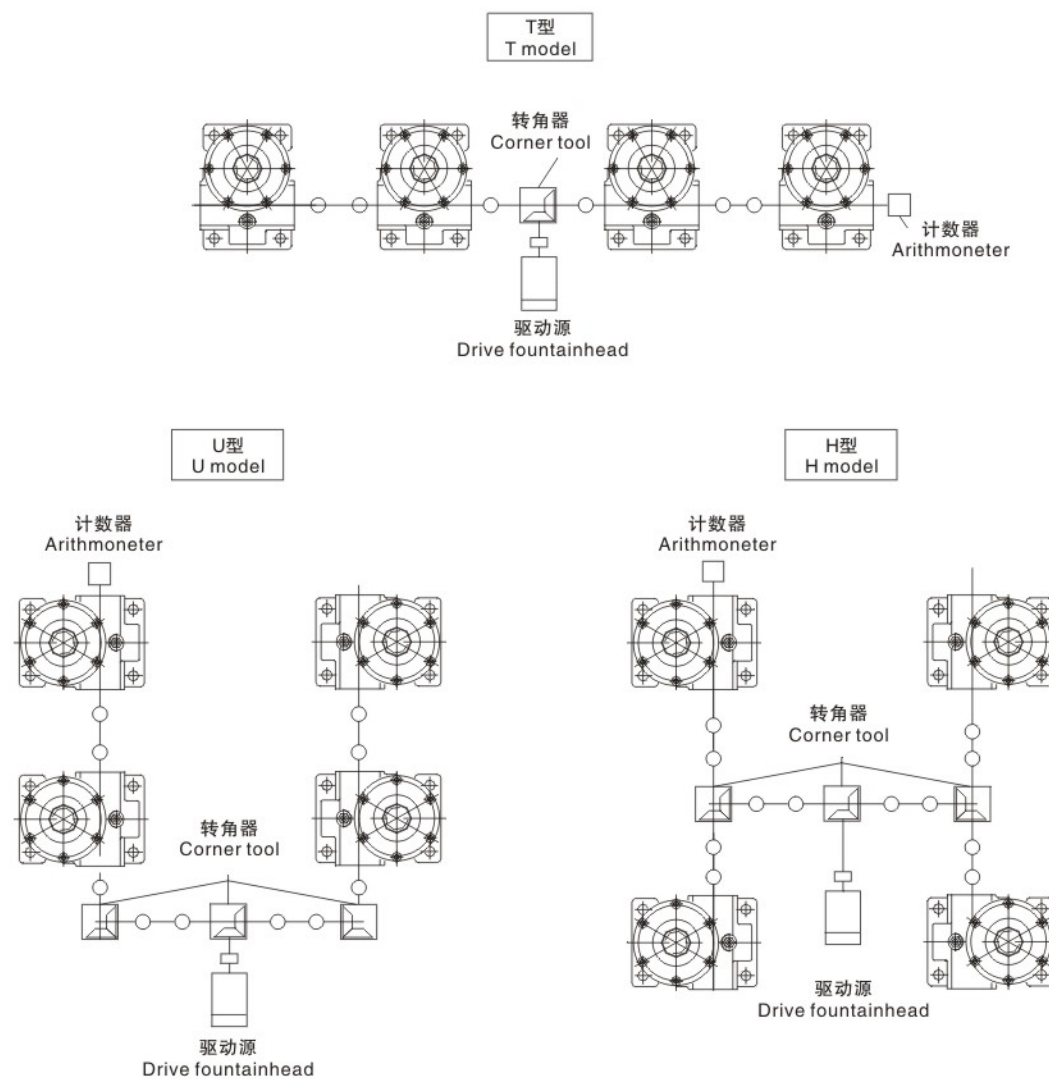
 两端自由 fn=0.36 Two shaft end free	 两端支撑 fn=1.56 Two shaft end fixed
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2. 选型示例 Selection example

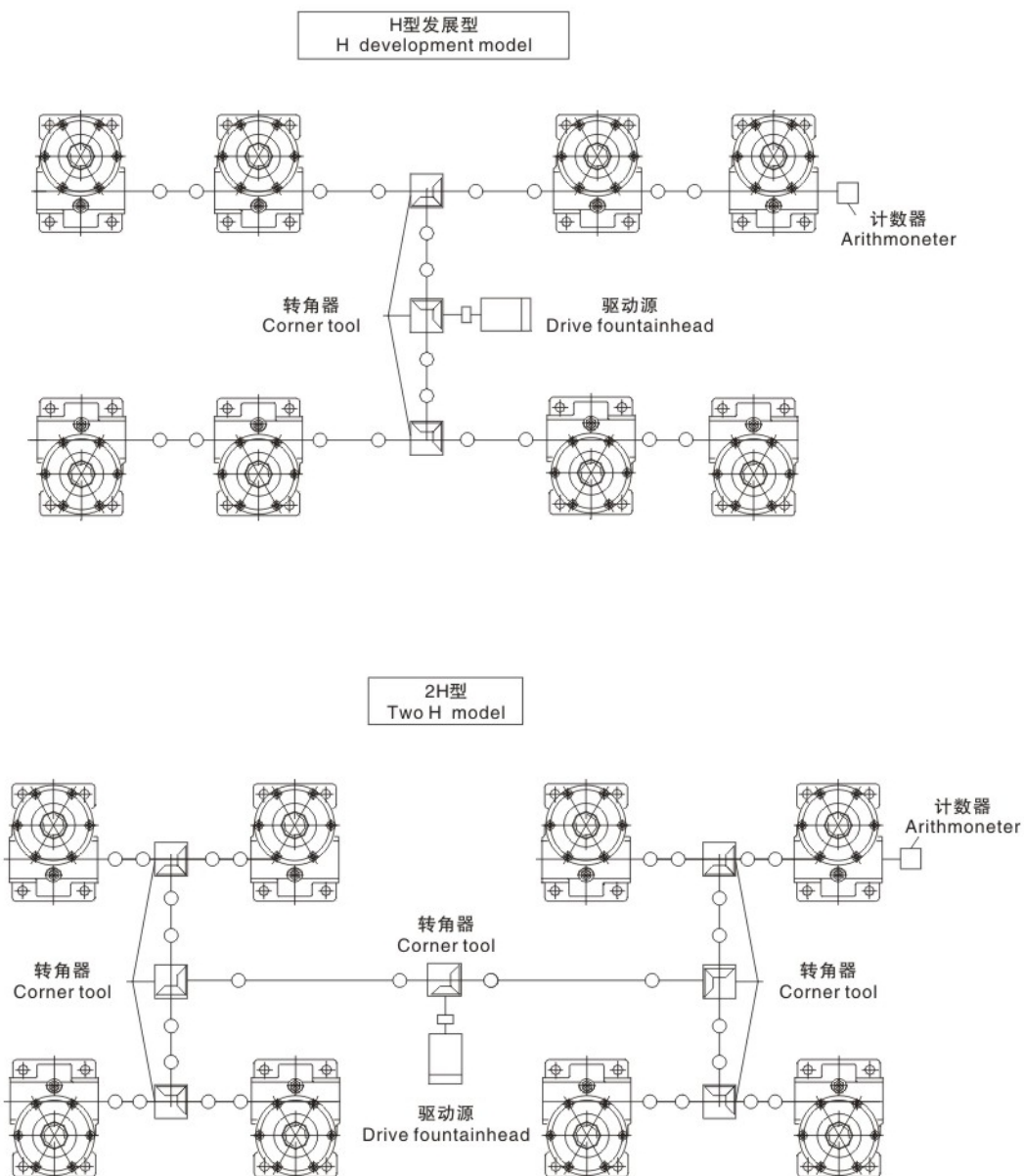
2.1 两台联动 Two sets linkage



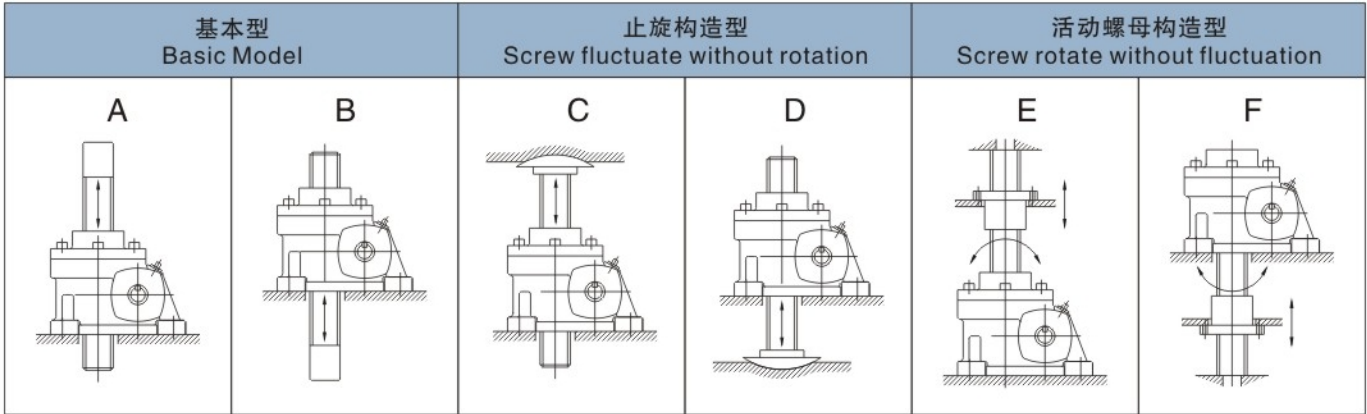
2.2 四台联动 Four sets linkage



2.3 八台联动 Eight sets linkage



3. 安装方式 Mounting option



说明:

- 1、基本形式：螺母(蜗轮)转动丝杆上下移动，此为普通型升降机安装方式。
※注意：丝杆在升降时，会产生旋转力，所以必须做好防止旋转的措施。
- 2、止旋构造型：适用于顶端无连接下运转等各种不能实现防止旋转的场合。
- 3、若想在有限的空间增长行程，可选用活动螺母构造型。此构造为丝杆旋转，活动螺母移动。若行程较长时，轴端应采用支撑方式，可得到很好的传动效果。

Explain:

- 1、Basic Model: Screw fluctuate with rotation. This is the installation for basic screw lifter.
※Notice: There will be rotation force when screw is ascending and descending. So it's need to prevent rotation.
- 2、Screw fluctuate without rotation: work under the situation than the shofe and hav't connection and the life can't rotate.
- 3、Screw rotate without fluctuation: To get the longer travel, this prodel screw rotate without fluctuation is an option, which screw rotate and nut move. If longer travel shaft and with bracket will archien high efficing.

选型参数 Capacity and model selection

型号规格 Model size	传动比 Ratio	输入轴转速 1800r/min Input shaft revolution speed 1800r/min			输入轴转速 1500r/min Input shaft revolution speed 1500r/min			输入轴转速 1200r/min Input shaft revolution speed 1200r/min			输入轴转速 900r/min Input shaft revolution speed 900r/min			输入轴转速 600r/min Input shaft revolution speed 600r/min			输入轴转速 300r/min Input shaft revolution speed 300r/min		
		输入功率 (kw)	起升力 (kg)	起升速度 (m/min)	输入功率 (kw)	起升力 (kg)	起升速度 (m/min)	输入功率 (kw)	起升力 (kg)	起升速度 (m/min)	输入功率 (kw)	起升力 (kg)	起升速度 (m/min)	输入功率 (kw)	起升力 (kg)	起升速度 (m/min)	输入功率 (kw)	起升力 (kg)	起升速度 (m/min)
		Model size (kw)	Lifter force (kg)	Hoist speed (m/min)	Model size (kw)	Lifter force (kg)	Hoist speed (m/min)	Model size (kw)	Lifter force (kg)	Hoist speed (m/min)	Model size (kw)	Lifter force (kg)	Hoist speed (m/min)	Model size (kw)	Lifter force (kg)	Hoist speed (m/min)	Model size (kw)	Lifter force (kg)	Hoist speed (m/min)
HK35	1/5	0.69	500	1.80	0.64	550	1.50	0.65	700	1.20	0.63	900	0.90	0.46	1000	0.60	0.37	1000	0.30
	1/10	0.37	500	0.90	0.37	550	0.75	0.37	700	0.60	0.37	950	0.45	0.37	1000	0.30	0.19	1350	0.15
	1/20	0.37	600	0.45	0.37	700	0.38	0.37	900	0.30	0.37	1200	0.23	0.19	1350	0.15	0.19	1350	0.08
HK40	1/6	0.98	700	1.80	0.93	800	1.50	0.88	950	1.20	0.91	1300	0.90	0.84	1800	0.60	0.42	1800	0.30
	1/12	0.66	950	0.90	0.64	1100	0.75	0.61	1300	0.60	0.57	1650	0.45	0.46	2000	0.30	0.37	2000	0.15
	1/24	0.37	950	0.45	0.37	1100	0.38	0.37	1300	0.30	0.37	1650	0.23	0.37	2000	0.15	0.19	2000	0.08
HK50	1/6	1.39	900	1.80	1.28	1000	1.50	1.24	1200	1.20	1.16	1500	0.90	0.87	1700	0.60	0.54	2100	0.30
	1/12	1.10	1350	0.90	1.01	1500	0.75	0.98	1800	0.60	0.87	2150	0.45	0.58	2150	0.30	0.37	2500	0.15
	1/24	0.78	1800	0.45	0.72	2000	0.38	0.69	2400	0.30	0.55	2550	0.23	0.42	2900	0.15	0.37	2850	0.08
HK60	1/8	2.12	1300	1.80	1.97	1450	1.50	1.85	1700	1.20	1.72	2100	0.90	1.66	3050	0.60	1.31	4800	0.30
	1/16	1.12	1300	0.90	1.04	1450	0.75	0.98	1700	0.60	0.95	2200	0.45	0.87	3050	0.30	0.69	4800	0.15
	1/32	0.80	1750	0.45	0.75	1950	0.38	0.69	2250	0.30	0.64	2800	0.23	0.63	4100	0.15	0.48	6400	0.08
HK60B	1/8	2.00	1300	1.80	1.86	1450	1.50	1.75	1700	1.20	1.62	2100	0.90	1.57	3050	0.60	1.24	4800	0.30
	1/16	1.06	1300	0.90	0.98	1450	0.75	0.93	1700	0.60	0.89	2200	0.45	0.83	3050	0.30	0.65	4800	0.15
	1/32	0.75	1750	0.45	0.70	1950	0.38	0.65	2250	0.30	0.61	2800	0.23	0.59	4100	0.15	0.46	6400	0.08
HK70	1/10	2.66	1400	1.80	2.42	1850	1.50	2.25	1950	1.20	2.12	2450	0.90	1.93	3350	0.60	1.41	4900	0.30
	1/20	1.42	1600	0.90	1.47	1850	0.75	1.37	2250	0.60	1.28	2800	0.45	1.18	3850	0.30	0.86	5600	0.15
	1/40	1.14	2400	0.45	1.17	2800	0.38	1.09	3350	0.30	1.07	4400	0.23	0.93	5750	0.15	0.69	8400	0.08
HK100	1/12	3.62	1850	1.80	3.51	2150	1.50	3.39	2600	1.20	3.18	3250	0.90	2.94	4500	0.60	2.09	6400	0.30
	1/18	2.65	1900	1.20	2.68	2300	1.00	2.57	2750	0.80	2.45	3500	0.60	2.19	4700	0.40	1.56	6700	0.20
	1/36	1.66	2200	0.60	1.63	2600	0.50	1.60	3200	0.40	1.47	3900	0.30	1.36	5400	0.20	1.20	9600	0.10
HK120	1/12	4.15	1975	1.80	4.02	2300	1.50	3.81	2725	1.20	3.80	3625	0.90	3.48	4975	0.60	2.48	7050	0.30
	1/18	3.20	2125	1.20	3.20	2550	1.00	3.04	3025	0.80	3.03	4025	0.60	2.74	5450	0.40	1.94	7725	0.20
	1/36	2.14	2625	0.60	2.07	3050	0.50	1.98	3650	0.40	1.99	4875	0.30	1.80	6600	0.20	1.40	10300	0.10
HK130	1/7	9.47	2100	3.60	9.17	2450	3.00	9.02	2850	2.40	8.58	4000	1.80	8.20	5450	1.20	5.84	7750	0.60
	1/14	5.76	2350	1.80	5.71	2800	1.50	5.57	3300	1.20	5.39	4550	0.90	5.06	6200	0.60	3.57	8750	0.30
	1/28	4.07	3050	0.90	3.89	3500	0.75	3.91	4100	0.60	3.65	5850	0.45	3.48	7800	0.30	2.45	11000	0.15
HK150	1/8	16.3	3500	3.60	16.1	4000	3.00	15.8	5400	2.40	15.1	7100	1.80	14.8	9850	1.20	9.70	12950	0.60
	1/16	11.7	4300	1.80	11.6	5400	1.50	10.5	7200	1.20	11.00	9450	0.90	9.62	11800	0.60	7.08	17350	0.30
	1/32	8.65	5500	0.90	9.55	6800	0.75	7.35	10000	0.60	7.53	14300	0.45	7.02	15750	0.30	5.80	26050	0.15

使用说明 Operating instruction

1. 产品说明 Product introduction

- 1) HK 系列蜗轮丝杆升降机（又名千斤顶）；

2) 具有结构紧凑、体积小的特点；

3) 安装方便、形式多；

4) 可靠性高、寿命长；

5) 具有起升、下降及借助辅件推进、翻转等多种功能；

6) 可单台使用，也可多台组成使用；

7) 动力源广泛，可用电动机或其它动力直接带动，也可以用手动；

8) 通常用于低速重载的场合。广泛应用于冶金、机械、建筑、水利、医疗、化工等各个行业。
- 1) HK series worm gear screw lifter (other name is Jack);

2) Compact structure, small size;

3) Easy mounting, varied types;

4) High reliability. Long service life;

5) With the function of ascending, descending, thrusting, overturning;

6) Can be applied in one unit or multiple units;

7) Wide motivity. It can be driven by electrical motor and manual force;

8) It is usually used in low speed situation, widely used in the fields of metallurgy, mechanical, construction, chemical, irrigation works, mediat treatment.
2. 使用注意事项 Notices of usage
- 1) 请严格按承载能力表选择合适的速比和与之对应的具有充分裕度的载荷的升降机；

2) 升降机工作时应控制减速机表面和升降螺母表面温度在-15℃~80℃；

3) 升降机不得连续运转，单台升降机的负荷时间率(T%)以30分钟为单位计算，不得超过20%；
- 负荷率 T% = $\frac{1 \text{ 动作周期的工作时间}}{1 \text{ 动作周期的工作时间} + 1 \text{ 动作周期的停歇时间}} \times 100\%$
- 4) 必须保证有充足的驱动源动力；

5) 升降机理论上具有自锁功能，但在振动冲击较大的场合会造成自锁功能失灵，请务必加制动装置；

6) 升降机工作时一般不允许有横向载荷，若有横向载荷时，请加导向装置。

7) 升降机使用环境。
- 1) Select the model with proper ratio and load;

2) The surface temperature of speed reducer and nut should be controlled in -15℃~80℃, when the screw lifter is working;

3) The screw lifter cannot work all the time. The unit is thirty mins for duty ratio of unit one and can not exceed 20%;
- Duty ratio (T%)= $\frac{\text{Time under working/cycle}}{\text{Time under working/cycle} + \text{interval/cycle}} \times 100\%$
- 4) Insure adequate drive fountainhead;

5) Theoretically screw has self-lock function, but the self-lock function may not work in heavy shock condition;

6) Transverse load is not allowed when screw lifter is working. If transverse load occurred, please add direction setting.

7) Using situation for screw lifter.

使用环境 Usingsituation	室内无雨水侵入的场所 Norain and water
周围空气 Ambient air	灰尘为一般工厂状况 Dust: usual condition for mill
环境温度 Ambient temperature	-15℃~40℃
相对湿度 Comparatively humidity	85%以下 Below 85%

油品润滑 Lubricant

1. 润滑油（脂）选用表
Lubricants for reducer used in can be chosen chosen as the table below

蜗杆转速(r/min) Worm shaft speed (r/min)	润滑油（脂）类型 Lubricant
1500~1800	ISO Vg680
300~1500	ZNG-1 或 ZNG-2

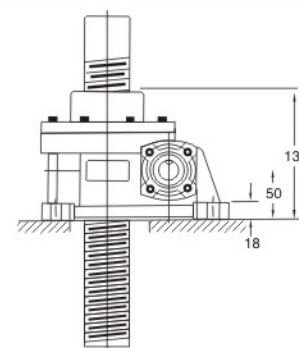
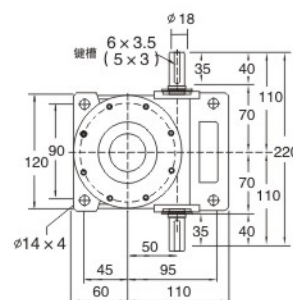
注：合成钙钠基润滑脂温度范围-20℃~100℃。
Note: The temperature range of synthetic lime-sode basic lubricant grease ZNG-1 or ZNG-2 is -20℃~100℃.

2. 润滑油（脂）注油量（L）
Lubricants capacity (L)

型号 Type 规格 Size	HK35	HK40	HK50	HK60	HK60B	HK70	HK100	HK120	HK130	HK150
注油量 Lubricants capacity	0.06	0.1	0.2	0.35	0.4	0.5	1.5	2.2	3.5	4.0

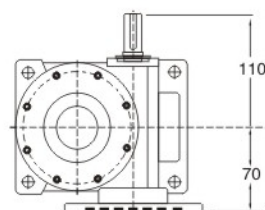
型号 规格	减速比	螺杆直径	螺杆螺距
HK-5T	$\frac{1}{6} \frac{1}{12} \frac{1}{24}$	$\varnothing 38$	P=6

双入力（标准型）

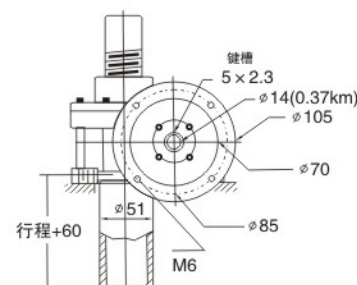
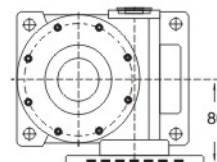


注: ()内之尺寸为旧尺寸

① 直接式
双入右侧

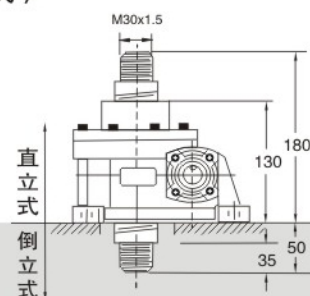


② 直接式
单入右侧

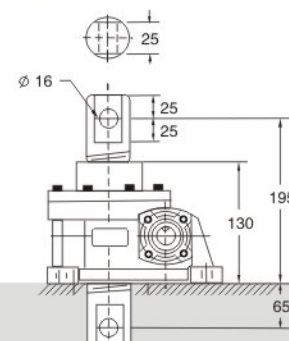


杆端型式及最短距离关系尺寸

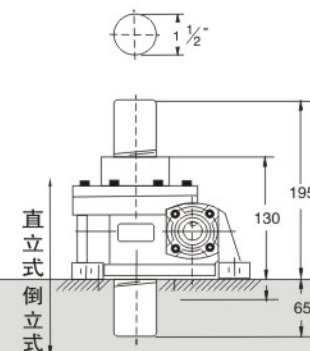
S型（牙口式）



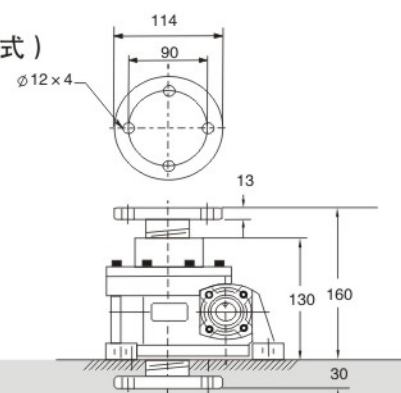
H型（栓孔式）



R型 (平口式)

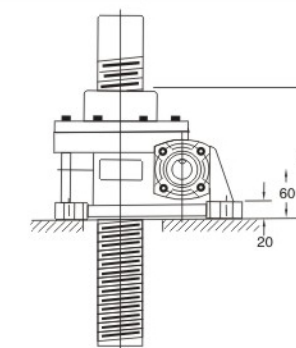
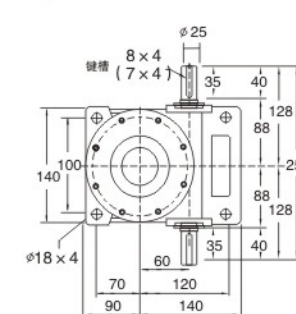


T型（顶板式）



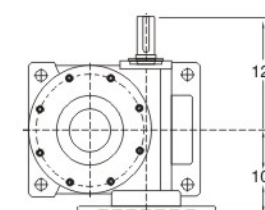
型号 规格	减速比	螺杆直径	螺杆螺距
HK-10T	$\frac{1}{8} \frac{1}{16} \frac{1}{32}$	$\phi 46$	P=8

双入力（标准型）

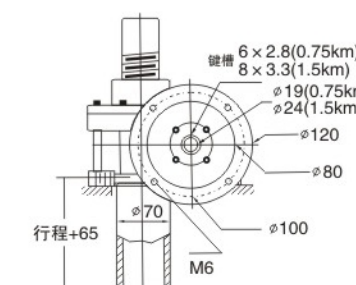
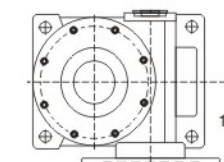


注: ()内之尺寸为旧尺寸

① 直接式
双入右侧

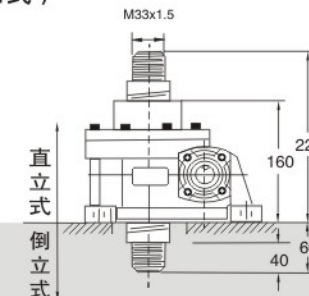


② 直接式
单入右侧

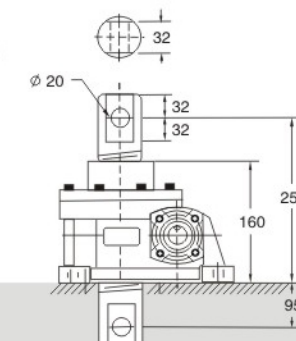


杆端型式及最短距离关系尺寸

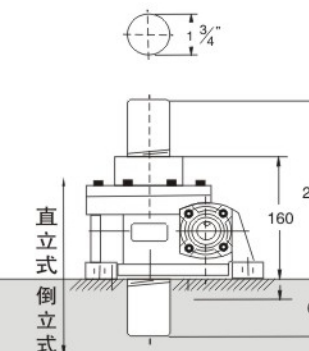
S型（牙口式）



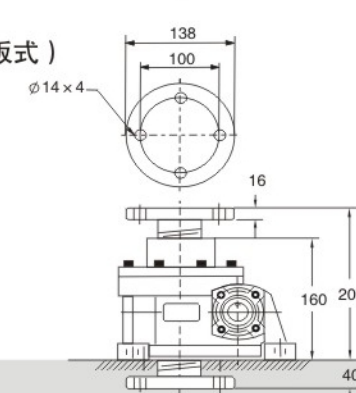
H型 (栓孔式)



R型 (平口式)

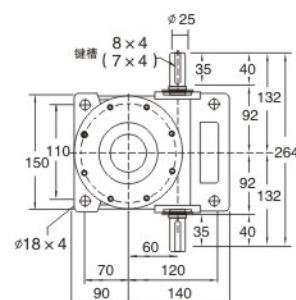


T型（顶板式）

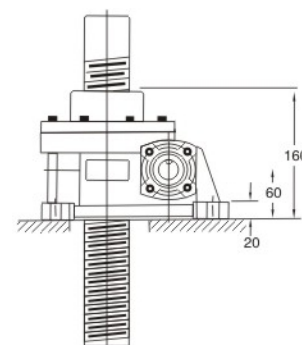


型号 规格	减速比	螺杆直径	螺杆螺距
HK-15T	$\frac{1}{8}$ $\frac{1}{16}$ $\frac{1}{32}$	$\phi 52$	P=8

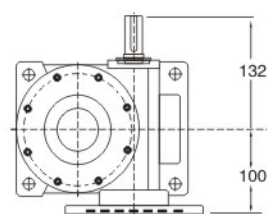
双入力（标准型）



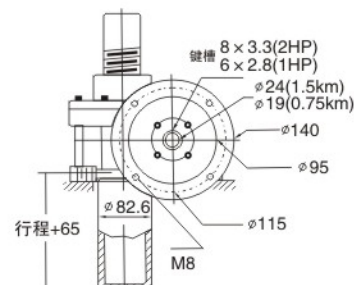
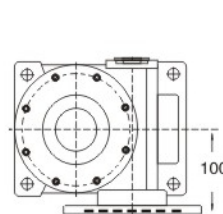
注：（）内之尺寸为旧尺寸



① 直接式
双入右侧

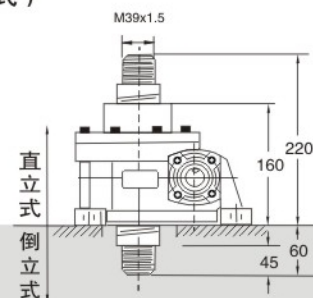


② 直接式
单入右侧

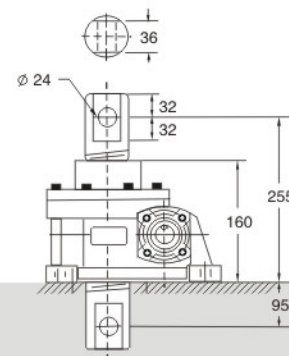


杆端型式及最短距离关系尺寸

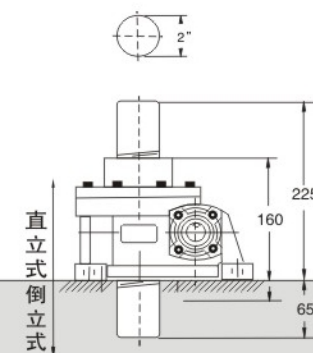
S型（牙口式）



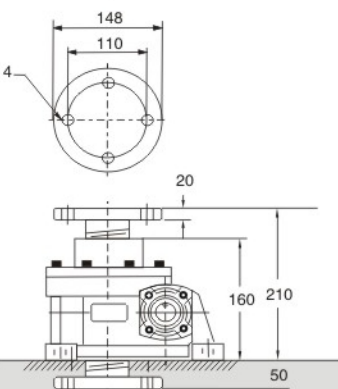
H型（栓孔式）



R型（平口式）

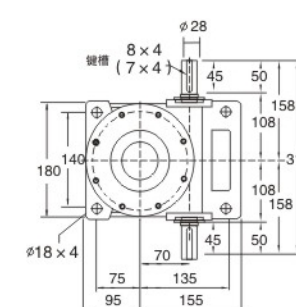


T型（顶板式）

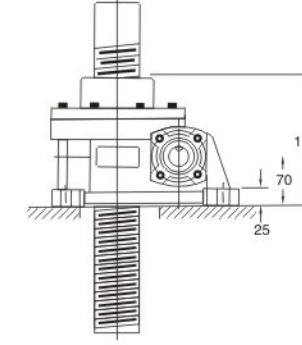


型号 规格	减速比	螺杆直径	螺杆螺距
HK-20T	$\frac{1}{10}$ $\frac{1}{20}$ $\frac{1}{40}$	$\phi 65$	P=10

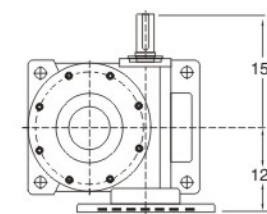
双入力（标准型）



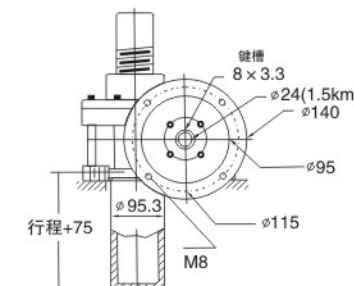
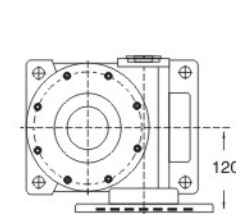
注：（）内之尺寸为旧尺寸



① 直接式
双入右侧

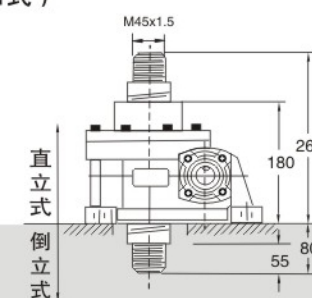


② 直接式
单入右侧

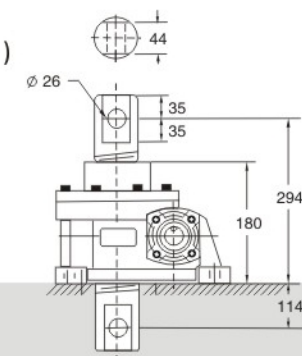


杆端型式及最短距离关系尺寸

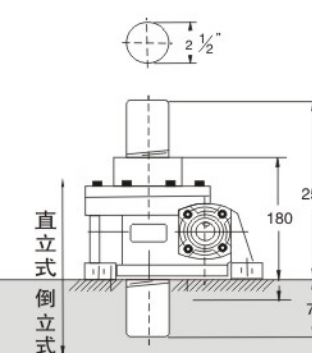
S型（牙口式）



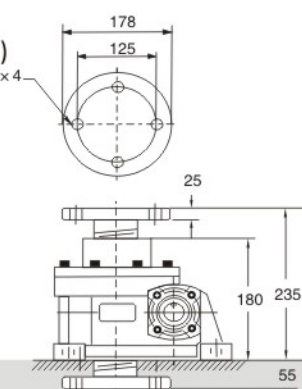
H型（栓孔式）



R型（平口式）

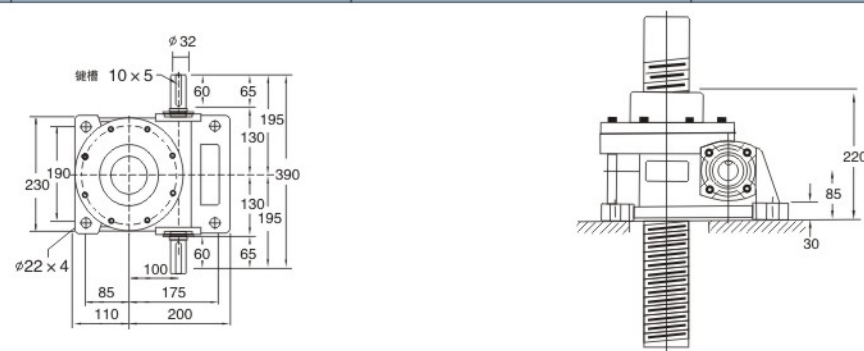


T型（顶板式）

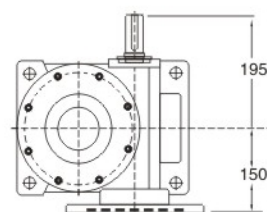


型号 规格	减速比	螺杆直径	螺杆螺距
HK-30T	$\frac{1}{12}$ $\frac{1}{18}$ $\frac{1}{36}$	$\phi 75 \frac{m}{m}$	P=12

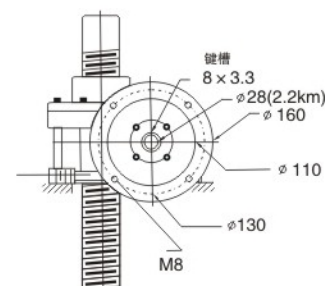
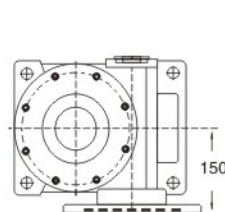
双入力（标准型）



① 直接式
双入右侧

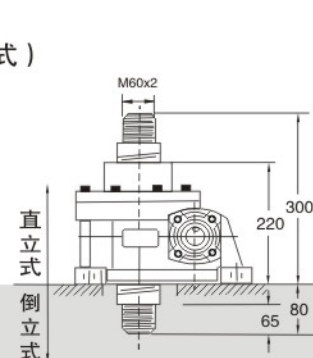


② 直接式
单入右侧

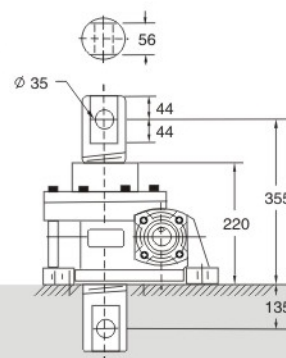


杆端型式及最短距离关系尺寸

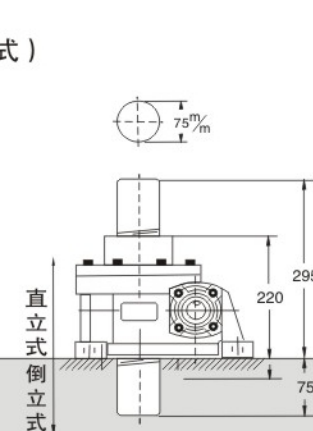
S型（牙口式）



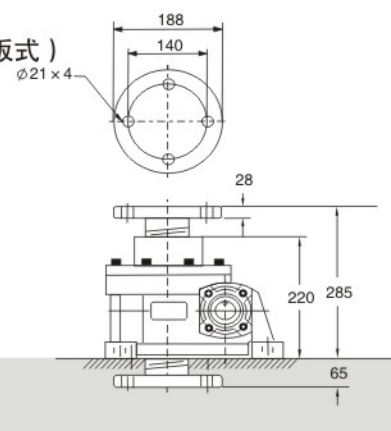
H型（栓孔式）



R型（平口式）

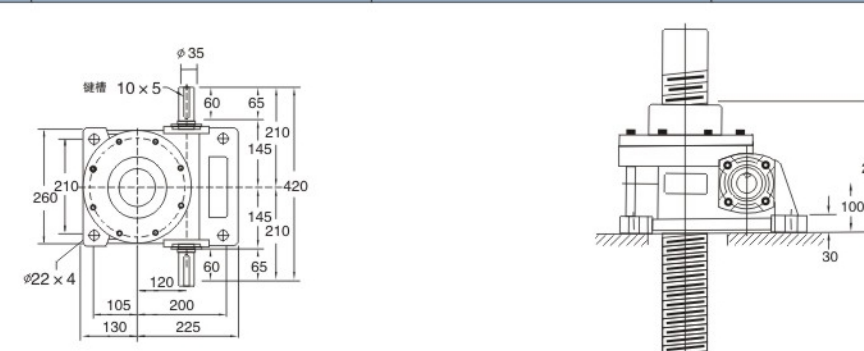


T型（顶板式）

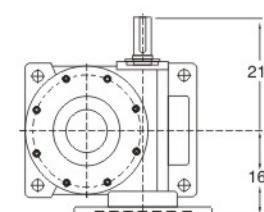


型号 规格	减速比	螺杆直径	螺杆螺距
HK-40T	$\frac{1}{12}$ $\frac{1}{12}$ $\frac{1}{24}$	$\phi 80 \frac{m}{m}$	P=12

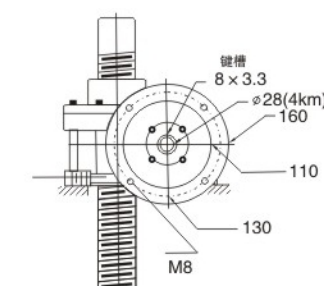
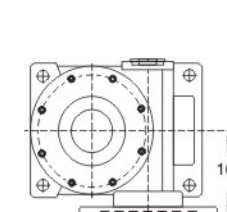
双入力（标准型）



① 直接式
双入右侧

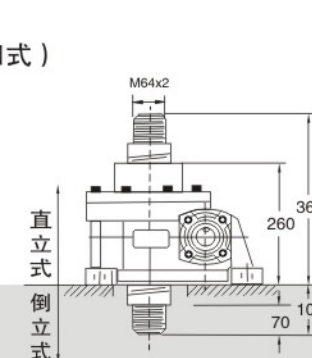


② 直接式
单入右侧

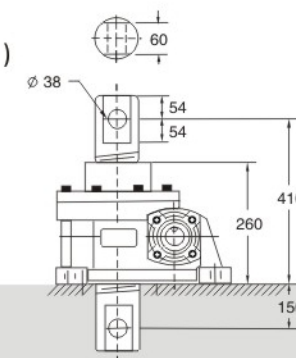


杆端型式及最短距离关系尺寸

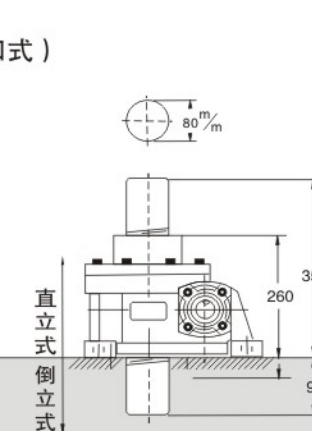
S型（牙口式）



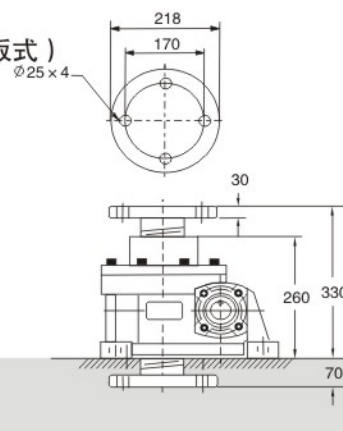
H型（栓孔式）



R型（平口式）

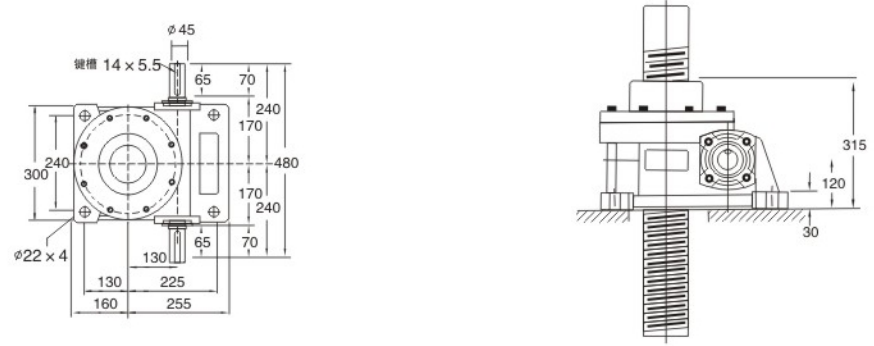


T型（顶板式）

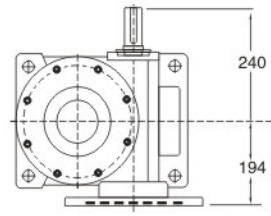


型号 规格	减速比	螺杆直径	螺杆螺距
HK-50T	$\frac{1}{7}$ $\frac{1}{14}$ $\frac{1}{28}$	$\phi 90 \frac{m}{m}$	P=14

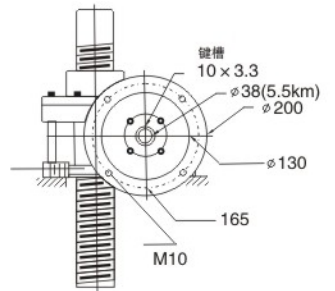
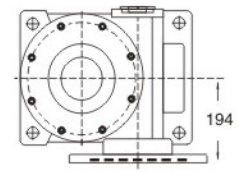
双入力（标准型）



① 直接式
双入右侧

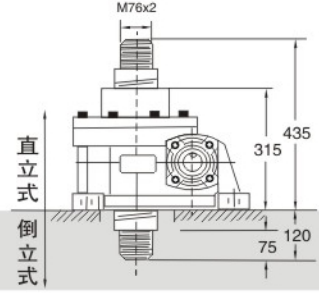


② 直接式
单入右侧

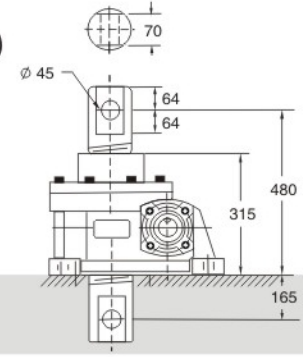


杆端型式及最短距离关系尺寸

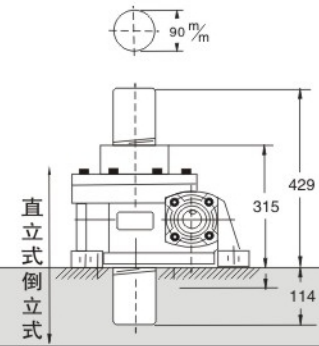
S型（牙口式）



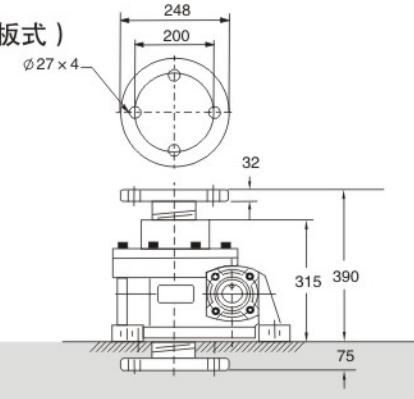
H型（栓孔式）



R型（平口式）

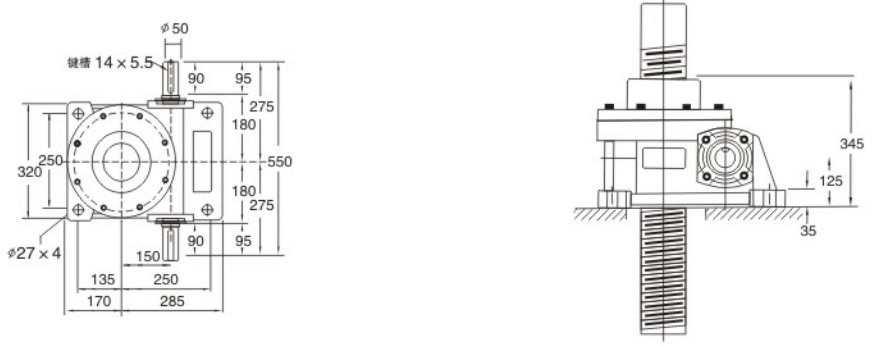


T型（顶板式）

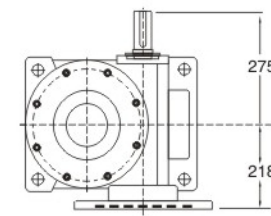


型号 规格	减速比	螺杆直径	螺杆螺距
HK-100T	$\frac{1}{8}$ $\frac{1}{16}$ $\frac{1}{32}$	$\phi 100 \frac{m}{m}$	P=16

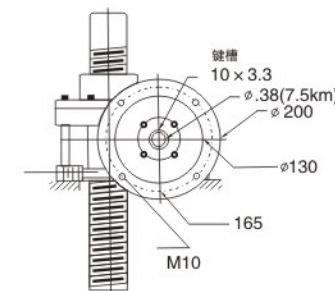
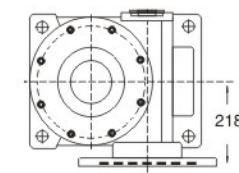
双入力（标准型）



① 直结式
双入右侧

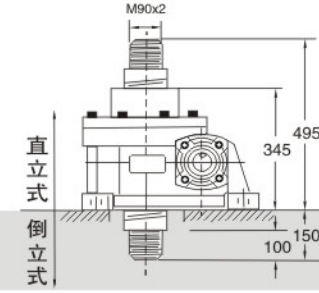


② 直结式
单入右侧

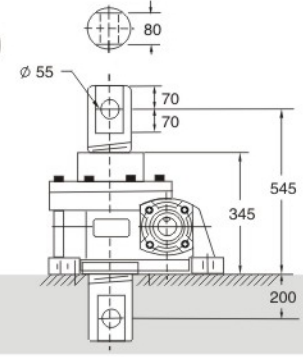


杆端型式及最短距离关系尺寸

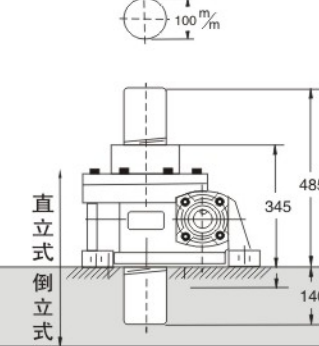
S型（牙口式）



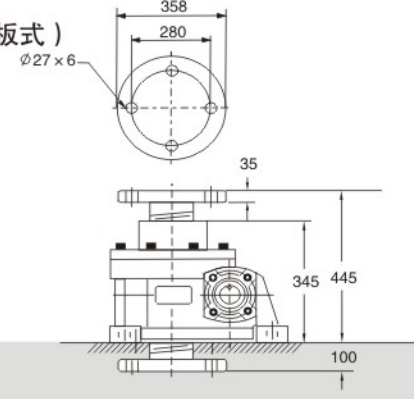
H型（栓孔式）



R型（平口式）



T型（顶板式）



故障分析 Malfunctions analysis

故障情况 Fault ituation	故障原因 Reasons	解决办法 Solutions
振动 Vibration	原动力与升降机连接不当 Improper connection among prime mover and lifter	调准至适当位置，重新正确固紧 Adjust to proper position
	蜗轮副齿部磨损或损伤 Tooth surface of worm gear setsworn-out or damaged	更换蜗轮副（需要时本公司配合） Replace worm gear sets (we will cooperate with youwhen necessary)
	轴承磨损 Bearing worn-out	更换轴承 Replace Bearing
	螺栓松脱 Bolt loose	固紧螺栓 Tighten Screw
杂音 Noise	轴承损伤或间隙过大 Baring damaged or too large clearance	更换轴承 Replace Bearing
	蜗轮副啮合不良 Worm gear sets mesh badly	修整齿面或更换蜗轮副（请与本公司联系） Mend tooth surface or replace worm gear sets (please contact to us)
	润滑油（脂）过少 Lubricant oil shortage	补加润滑油（脂） Fill in adequate oil as indication
漏油 Oil leakage	油封唇口磨损 Oil seal lip worn-out	更换油封 Replace oil seal
	油封档轴颈磨损 Shaft of oil seal area worn-out	更换输入轴或蜗轮 Replace input or worm gear
蜗轮副齿面 磨损过快 Tooth surface of worm gear sets abrade extra-quickly	超负荷运转 Overload	调整至适当负荷 Adjust to proper loading
	润滑油（脂）不符合要求 Lubricant oil not according with requirement	按油品润滑更换润滑油（脂） Replace proper lubricant oil
	润滑油（脂）过少 Lubricant oil shortage	补加润滑油（脂） Fill adequate oil as indication
	未按规定适时换油，润滑油劣化 Not replacing lubricant oil in time according to requirement, oil deteriorates	按规定要求适时换油 Replacing oil in time according to requirement
丝杆副齿面 磨损过快 Screw surface of worm gear sets abrade extra-quickly	运转温度过高 Overheating while running	采取合适措施，降低环境温度 Adopting proper measures to make environment temperatur fall
	超负荷运转 Overload	调整至适当负荷 Adjust to proper loading
	润滑脂干枯或变质 Lubricant shortage or gone bad	去污擦净，重新加润滑脂 Washover dirty oil and refill proper lubricant
	有横向载荷 There transverse load	加导向装置 Add direction setting

注：如遇故障无法解决，请随时与我们联系，以便提供咨询服务。
Annotate: If other faults not listed above occur, Please contact with us at any moment, Our company will supply thorough consultation and service.

FCL型弹性套柱销联轴器
FCL Flexible Couplings

产品说明 Products introduction

FCL型弹性套柱销联轴器的特点是结构简单，安装方便，更换容易，尺寸小，重量轻，因而得到广泛使用，如若安装调整后能保持两轴相对位移量在规定的范围内，则联轴器会有满意的使用性能和较长的工作寿命。因此能广泛用于载荷不大，由电动机驱动的各种中、小功率传动轴系中，如减速机、起重机、压缩机、输送机、纺织机、卷扬机、球磨机等。

弹性套柱销联轴器的许用相对位移：
径向位移：0.2~0.6mm；角位移：0° 30′ ~1° 30′

Flexible Couplings Model FCL is widely used for its compact designing, easy installation, convenient maintenance, small size and light weight. As long as the relative displacement between shafts is kept within the specified tolerance, B couplings will operate the best function and have a longer working life. Thus it is greatly demanded in medium and minor power transmission systems driven by motors, such as speed reducers, hoists, compressor, conveyers, spinning and weaving machines and ball mills.

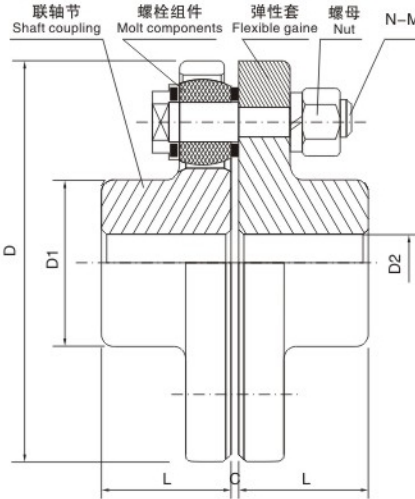
Permit table relative displacement:
Radial displacement: 0.2~0.6mm; Angle displacement: 0° 30′ ~1° 30′

型号及标记 Model & marker

FCL 160

最大外径 MaxImun Dianmeler

弹性套柱销联轴器 Flexible Couplings



外形尺寸参数 Size chart & parameter

型号 Size	许用转矩 Max torque N·m	许用转速 Max speed r/min	D	D1	D2	L	C	n-M	重量 (Kg)
FCL90	4	4000	90	36	11	28	3	4-M8X50	1.8
FCL100	10	4000	100	40	11	35.5	3	4-M10X56	2.3
FCL112	16	4000	112	46	13	40	3	4-M10X56	3.0
FCL125	25	4000	125	50	13	45	3	4-M12X64	4.0
FCL140	50	4000	140	65	13	50	3	6-M12X64	5.5
FCL160	110	4000	160	80	15	56	3	8-M12X64	8.0
FCL180	157	3500	180	90	15	63	3	8-M12X64	10.5
FCL200	245	3200	200	100	21	71	4	8-M20X85	16.2
FCL224	392	2850	224	115	21	80	4	8-M20X85	22
FCL250	618	2550	250	135	25	90	4	8-M24X100	32
FCL280	980	2300	280	140	34	100	4	8-M24X116	44.0
FCL315	1568	2050	315	160	41	112	4	10-M24X116	58
FCL355	2450	1800	355	180	60	125	5	8-M30X150	90
FCL400	3920	1600	400	200	60	125	5	10-M30X150	113
FCL450	6174	1400	450	224	65	140	5	12-M30X150	145
FCL560	9800	1150	560	250	85	160	5	14-M30X150	229
FCL630	15680	1000	630	280	95	180	5	18-M30X150	296

FL型凸爪式弹性联轴器
FL Jaw Flexible Couplings

产品说明 Products introduction

- 1). 适用于所有类型的机械和液压转动;
- 2). 体积小, 传递力矩大;
- 3). 轴向插入, 易安装, 免维护;
- 4). 能平衡轴的轴向、径向和角度的相对位移;
- 5). 内孔尺寸d、d1可根据顾客要求制作;
- 6). 适用温度为-40℃ ~ +100℃, 最高瞬时温度可达120℃.

- 1). Applicable to all types of machinery and hydraulics.
- 2). Small volume and large transmitted torque.
- 3). To be plugged in axially, easy assembly, maintenance-free.
- 4). Balancing axial, radial and angular misalignment.
- 5). Dimensions of bore d、d1 available on customer, request.
- 6). Applicable from -40℃ to +100℃, temperature peaks up to 120℃.



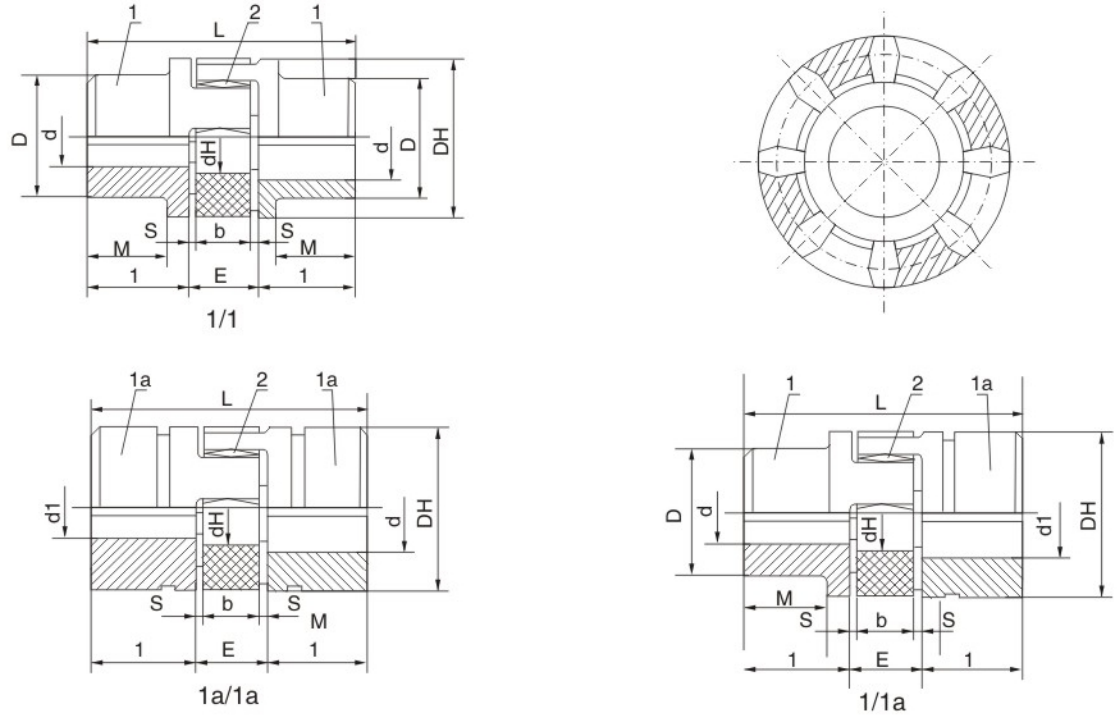
型号及标记 Model & marker

FL 9/24 (1a/1a)

类别 Style
两端的最大加工孔径 dmax/d1max
凸爪式弹性联轴器 Jaw Flexible Couplings

性能参数表 Performance parameters

型号 Size		许用转速 Max speed r/min	额定功率 Rated power (n=150r/min) kw	额定转矩 Rated torque N·m	最大转矩 Max.torgue N·m	许用扭转角度 Max.torsion angle
FL9		28000	0.28	1.8	3.5	6.4 °
FL14		19000	0.62	4.0	8.0	
FL19	FL19/24	14000	0.77	4.9	9.7	
FL24	FL24/28	10600	2.67	17	34	
FL28	FL38/38	8500	7.22	46	92	3.2 °
FL38	FL38/45	7100	14.6	93	185	
FL42	FL42/55	6000	20.4	130	260	
FL48	FL48/60	5600	23.6	150	300	
FL55	FL55/70	4750	28.3	180	360	
FL65	FL65/75	250	32.2	205	410	
FL75	FL75/90	3550	74.6	475	950	
FL90	FL90/100	2800	184	1175	2350	



型号 Size	类别 Style	预留孔 Prebored	形式 Form				尺寸 Dimensions(mm)										最小重量 Min.Weight (kg)
			1		1a		1	E	S	b	L	M	DH	D	dH		
			d		d1												
			min	max	min	max											
	铝合金 Aluminium Diecasting(Al-D)																
FL9	1a/1a				4	9	10	10	1.0	8	30		20		6	0.017	
FL14	1a/1a				4	16	11	13	1.5	10	35		30		10	0.048	
	钢或球墨铸铁 Steel-Nodular Iron															钢 Steel	
FL19/24	1a/1a				6	24	25	16	2.0	12	33		40		18	0.328	
FL24/28	1a/1a				8	28	30	18	2.0	14	78		55		27	0.660	
FL28/38	1a/1a				10	38	35	20	2.5	15	90		65		30	1.160	
FL38/45	1a/1a	11	12	38	38	45	45	24	3.0	18	114	37	80	66	38	2.27	
FL42/55	1a/1a	13	14	42	42	55	50	26	3.0	20	126	40	95	75	46	3.57	
FL48/60	1a/1a	14	15	48	48	60	56	28	3.5	21	140	45	105	85	51	4.80	
FL55/70	1a/1a	18	20	55	55	70	65	30	4.0	22	160	52	120	98	60	7.37	
FL65/75	1a/1a	20	22	65	65	75	75	35	4.5	26	185	61	135	115	68	10.89	
FL75/90	1a/1a	28	30	75	75	90	85	40	5.0	30	210	69	160	135	80	17.73	
FL90/100	1a/1a	38	40	90	90	100	100	45	5.5	34	245	81	200	160	100	29.6	
FL38	1/1	11	12	38			45	24	3.0	18	114	37	80	66	38	2.080	
FL42	1/1	13	14	42			50	26	3.0	20	126	40	95	75	46	3.210	
FL48	1/1	14	15	48			56	28	3.5	21	140	45	105	85	51	4.410	
FL55	1/1	18	20	55			65	30	4.0	22	160	52	120	98	60	6.640	
FL65	1/1	20	22	65			75	35	4.5	26	185	61	135	115	68	10.130	
FL75	1/1	28	30	75			85	40	5.0	30	210	69	160	135	80	16.030	
FL90	1/1	38	40	90			100	45	5.5	34	245	81	200	160	100	27.50	