

ZH 系列锥盘环盘减变速机

ZH Series of Ring-Cone Disc Reducer & Variator



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■ 概述 | Introduction

ZH 系列锥盘环盘减变速机，系我公司结合国际上中小功率机械传动先进技术的基础上创新开发国内首创的新颖机械减变速机专利产品。

- 设计独特、结构合理：通过自动加压机构，使原动机功耗正比于外界负载变化，节能效果好。
- 运动平稳、低噪音、无需润滑，由于摩擦副采用金属～非金属元件，因而噪音低，而且在干式吸震状态下工作，完全免除了漏油引起的外部污染。
- 高效耐用：采用我公司研制成功的特种磨擦材料，有特大的磨擦系数和耐用度、输出特征基本呈恒功率特性。中高速时效率达 85% 以上。
- 变速范围大：ZH 变速器变速范围 $R_b=6$ ，必要时可从零启动。不论在运转或停车时均可轻便增速或者减速，当原动机反向运转时，输出也可反向运转。
- 组合能力强，结构安装尺寸参照电机安装尺寸，可与各类减速器模块组合，实现低速无级变速，输出转速 0.07~1740r/min，具有良好的适应性。
- 维护保养、操作使用简单方便，性能稳定，可靠性高，外观美观，重量轻。

ZH 系列锥盘环盘减变速机特别适用于食品、制药、化工、电子等行业的机械传动装置上。

ZH series of ring-cone disc reducer & variator is developed initially by the Company patent obtained on the basis of integrating the advanced technology of mechanical transmission devices with medium & small power.

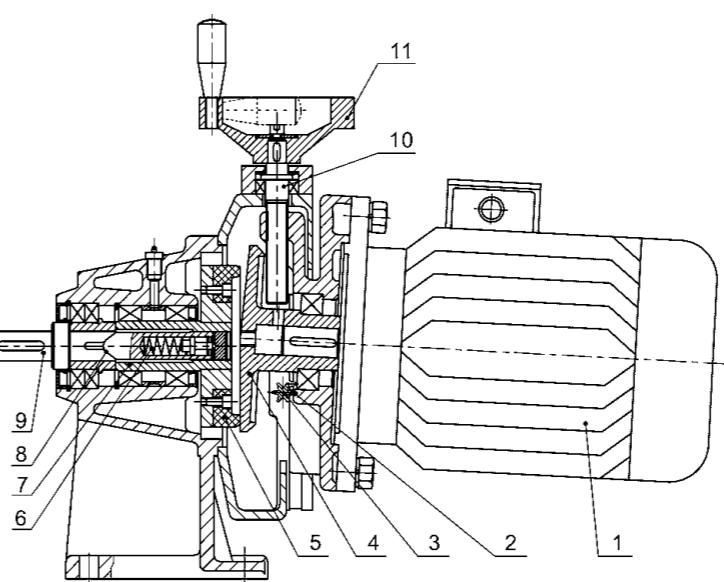
- Unique design and proper structure; it makes the power consumption of the prime motor which is in direct ratio with the external load change correspondingly by means of auto-pressed mechanism, resulting in excellent effect on energy saving.
- Stable operation, low noise, without lubrication needed; as the rubbing pair is made of metal ~ non-metal material, it is featured by low noise and totally free from internal or external pollution caused by oil leakage when working in dry and anti-vibration condition.
- High efficiency and durability; Special friction material developed by our company with extra high friction coefficient, high durability and constant output power is applied. Its efficiency at medium and high speed reaches 85% or above.
- Broad range of speed adjustment: the scope of speed adjustment of ZH gearbox is $R_b=6$. It can be started up from zero if necessary. The speed can be adjusted no matter whether it is working or stops. When the prime motor operates in the reverse direction, output also can work in the reverse direction.
- Multiple combination. Taking TV installation dimension as reference, its installation dimension can be combined with various models of gearboxes so as to achieve stepless change at low speed with output speed of 0.07~1740r/min.
- Easy to maintain and operate with stable performance, high reliability, good appearance and light in weight.

ZH series of ring-cone disc reducer & variator is especially applicable for mechanical transmission equipments used in the industries of food, pharmacy, chemical and electrics.

■ 工作原理 | Principle of Operation

停机时，锥盘 4、环盘 5 在预压弹簧 6 的作用下，产生一定的压紧力。工作时，电动机 1 驱动锥盘 4，依靠摩擦力矩带动环盘 5 转动，而使输出轴 9 运转。当输出轴上的负载发生变化时，通过自动加压凸轮 8，使摩擦副间的压紧力和摩擦力矩正比于负载而变化，因此，输出功率正比于外界负载的变化而变化。调速时，通过调速齿轮、齿条 2、3 或调速丝杆和手轮 10、11，使锥盘 4 相对于环盘 5 作径向移动，改变了锥盘与环盘的接触工作半径，从而实现了平稳的无级变速。

When it stops working, cone disc 4 and ring disc 5 will produce some compressive stress under the effectiveness of preload spring 6. When it is working, electromotor 1 drives cone disc 4 and also drives ring disc 5 to rotate with frictional force and output shaft 9 starts to work. When the load on the output shaft changes, the compressive stress and the friction torque of the rubbing pair which are both in direct ratio with the load will change correspondingly under the effectiveness of the auto pressed cam 8, therefore, power output which is in direct ratio with external load will change correspondingly too. When the speed is adjusted, cone disc 4 shall make radial movement corresponding to ring disc 5 by means of governor gear and rack 2 & 3 or lead screw and handwheel 10 & 11, which changes the contact working radius of the cone disc and the ring disc. The stable stepless speed control is finally achieved.



- | | |
|------------------------------------|-------------------------------|
| 1 — 电动机 / Electromotor | 7 — 联接套 / Joint sleeve |
| 2、3 — 调速齿条, 齿轮 Governor gear, rack | 8 — 加压凸轮 / Pressed cam |
| 4 — 锥盘 / Cone disc | 9 — 输出轴 / Output shaft |
| 5 — 环盘 / Ring disc | 10 — 调速丝杆 Governor lead screw |
| 6 — 预压弹簧 Preload spring | 11 — 手轮 / Handwheel |

■ ZH 系列选型 | Options of ZH Series

使用条件及选型结果 / Conditions and results

使用条件 / Condition ○

选型结果 / Result ●

○ 负荷容量 (被驱动设备输入功率或输入转矩) Load capacity (Input power or input torque of the driven equipment)	P=0.55KW
○ 电源电压 / Voltage	380V
○ 电源频率 / Frequency	50Hz
○ 要求转速 / Speed required	2-12r/min
○ 负荷性质及运转时间 / Load pattern and operation time ● 确认使用系数 / Confirmation of usage coefficient ○ 启动次数 / Number of startups ● 确认启动次数 / Confirmation of startup coefficient ○ 可靠度 / Reliability ● 确认可靠度系数 / Confirmation of reliability coefficient ● 确认运行系数 / Confirmation of performance coefficient	均匀负荷, 14 小时 / 天 K _A =1.25 查表 P2 启动次数: 5 次 / 小时 K _S =1 查表 P4 可靠度: 一般 K _R =1 查表 P4 K=K _A * K _S * K _R =1.25 K _A =1.25 check the table P2 Number of startups: 5 times/hour K _S =1 check the table P4 Reliability: normal K _R =1 check the table P4 K=K _A * K _S * K _R =1.25
○ 安装形式 / Type of installation ● 确认安装形式 / Confirmation of installation type	平行轴、卧装 B3 查表 P34 Parallel shaft, horizontal installation B3 check the table P34
○ 承载能力计算 / Calculation of bearing capacity ● 确认机型 / Confirmation of machine	M _{s2} =9550 * P / N _{2max} =437.7N.m M _{2min} ≥ M _{s2} * K=547.1N.m 根据 N ₂ 及 M _{2min} 查表 P21 得: ZHY1.1-CJ15/91-2 Based on N ₂ and M _{2min} & table P21: ZHY1.1-CJ15/91-2
○ 环境条件 / Environmental condition ● 确认环境条件 / Confirmation of environmental condition	室内、环境温度 28℃ OK Inside, ambient temperature 28℃ OK
○ 电机规格 / Electromotor specification ● 确认电机规格 / Confirmation of electromotor specification	1.1KW-6、380V、50Hz 无制动器、室内型 /Without brake, for inside OK 1.1KW-6、380V、50Hz Without brake, for inside
● 结束选型 / End of selection	ZHY1.1-CJ15/91-2-B3、380V、50Hz 无制动器、室内型 ZHY1.1-CJ15/91-2-B3 380V, 50Hz Without brake, for inside

■ ZH 系列型号规格表示方式 | Denotation of Specification & Dimension of ZH Series



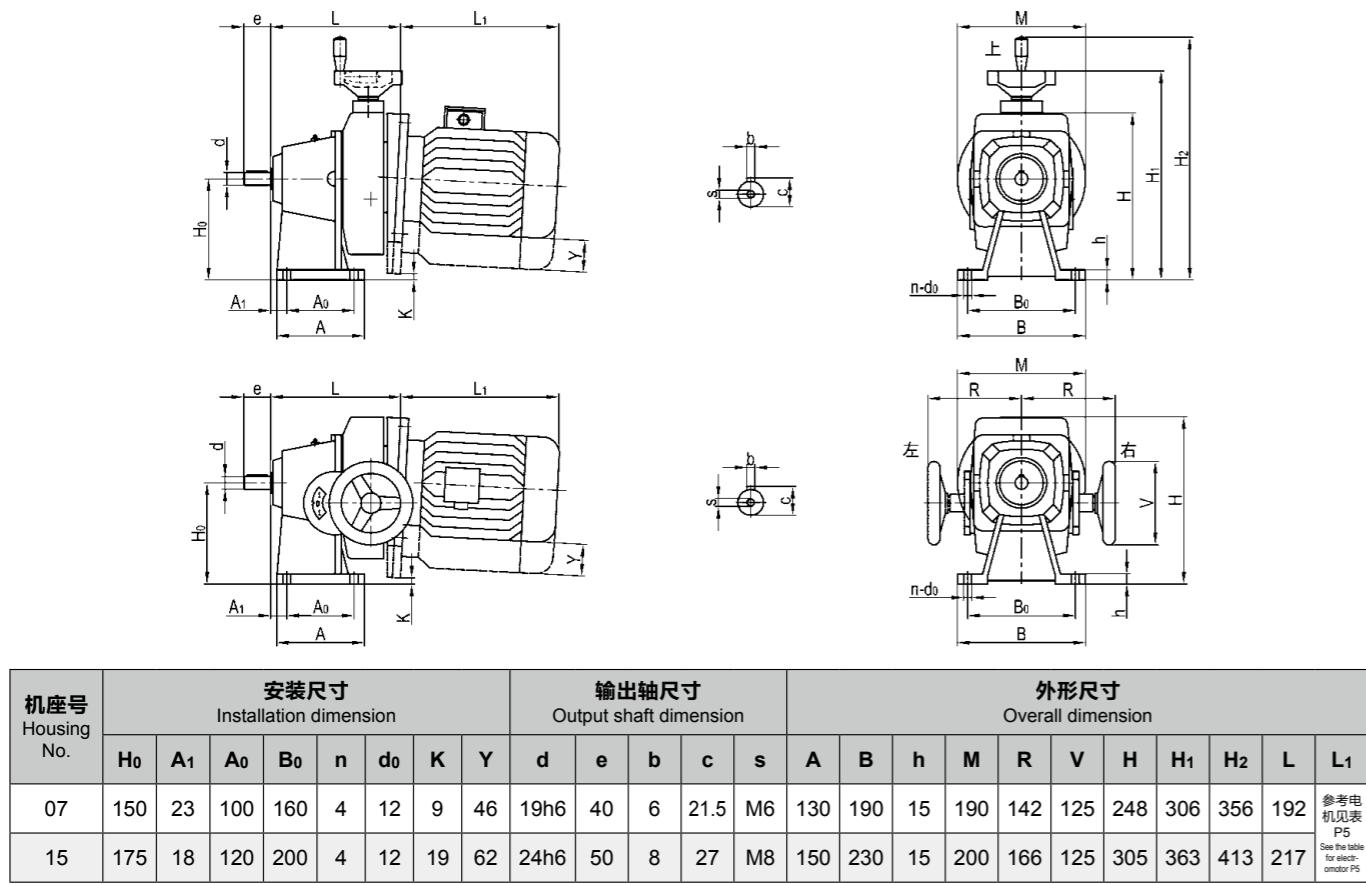
变速器类型 Type of gearbox	电机代号 Electromotor code	电机功率 Electromotor power	最低输出转速 Minimum output speed	结构形式 Structure	手轮方位 Position and direction of handwheel	安装形式 Installation form	接线盒方位 Position and direction of terminal box	数显代号 Digimatic code
锥盘环盘 减变速机 ZH	普通 Y ₂ Normal Y ₂	见选型 参数表 See selections Parameter list	见选型 参数表 See selections Parameter list	卧式: W (不标注) Horizontal: W (unmarked)	右手轮: R (齿轮齿条调速) Right handwheel R (speed adjustment by gear and rack)	见表 P34 See the table P34	见表 P6 See the table P6	S
	防爆 B Explosion protection B				左手轮: L (齿轮齿条调速) Left handwheel L (speed adjustment by gear and rack)			
	制动 E Brake E			立式: F Vertical: F	上手轮: T (丝杆调速) Top handwheel T (speed adjustment by lead screw)			
	变频 V Frequency conversion V							
	变频制动 VE Brake by frequency conversion VE							
	多速 D Multi-speed D							
	分马力 F Fractional horsepower F							

注: 如需自动控制及其它特殊要求, 请另注明。
Note: please specify automatic control or other special requirements if necessary.

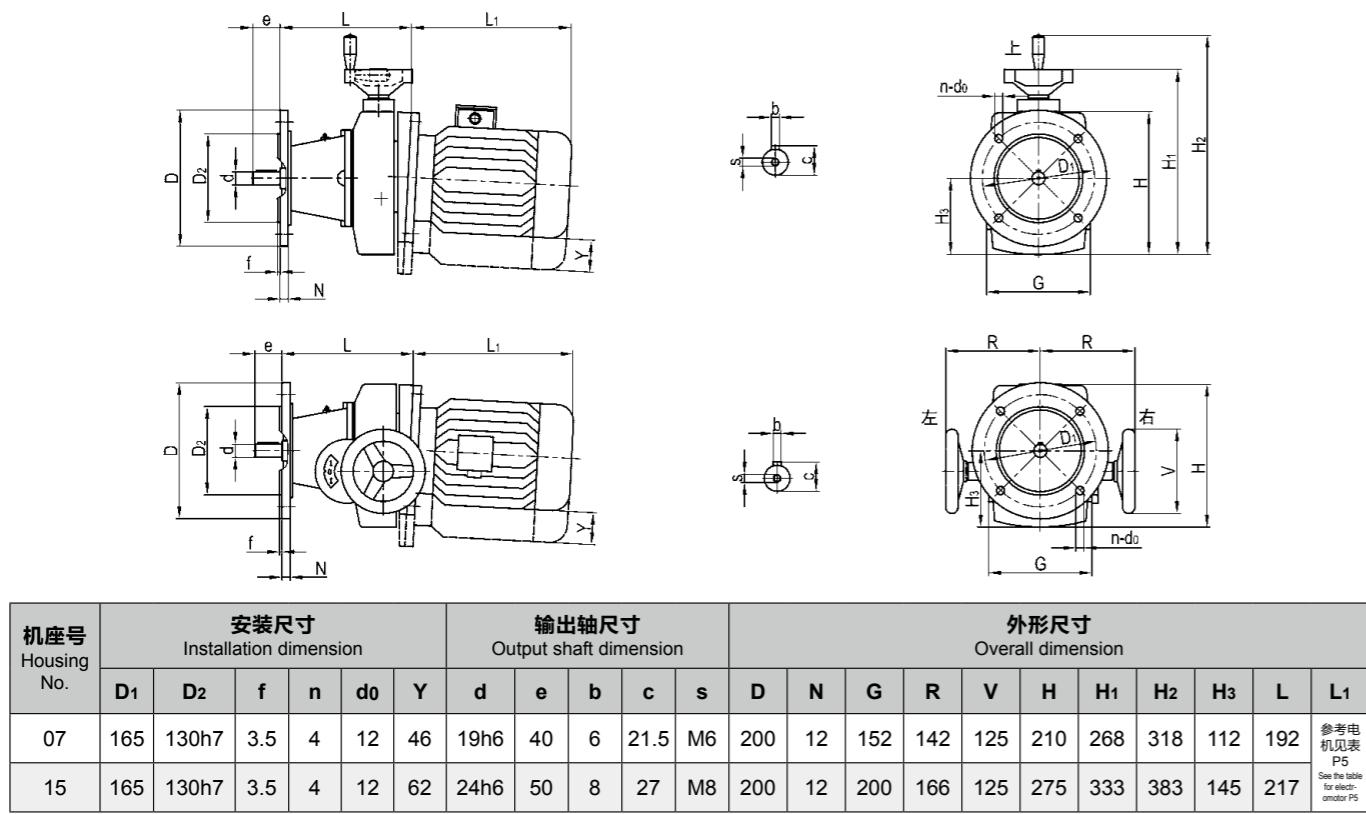
■ ZH 系列基本型选型参数表 | Parameter List About Selections of ZH Series

机座号 Housing No.	07					15				
输入功率 (KW) Input power	四极 4-pole	0.37	0.55	0.75	1.1	1.1	1.5	2.2	3	
型号 Model	输出转速 r/min Output torque	许用输出转矩 N.m Permissible output torque								
ZHY-	290-1740	4.2-1.7	6.2-2.5	8.5-3.4	12-5	14.5-5	19-6.8	25-8.8	30-12	
	190-1160		6.5-2.6	9.6-3.9	13.2-5.3	15-5.3	22-7.8	26-9.3	32-13.6	

ZH 系列基本型外形及安装尺寸 | Overall & Installation Dimension of ZH Series

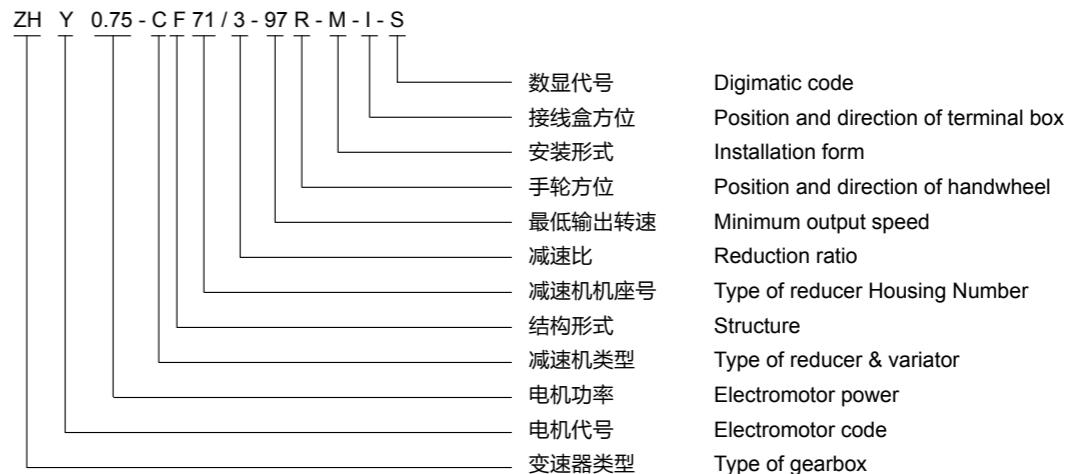


ZH-F 系列基本型外形及安装尺寸 | Overall & Installation Dimension of ZH-F Series



ZH 系列锥盘环盘减变速机
ZH Series of Ring-Cone Disc Reducer & Variator

ZH-C(CF) 系列型号规格表示方式 | Denotation of specification & dimension of ZH-C(CF) Series

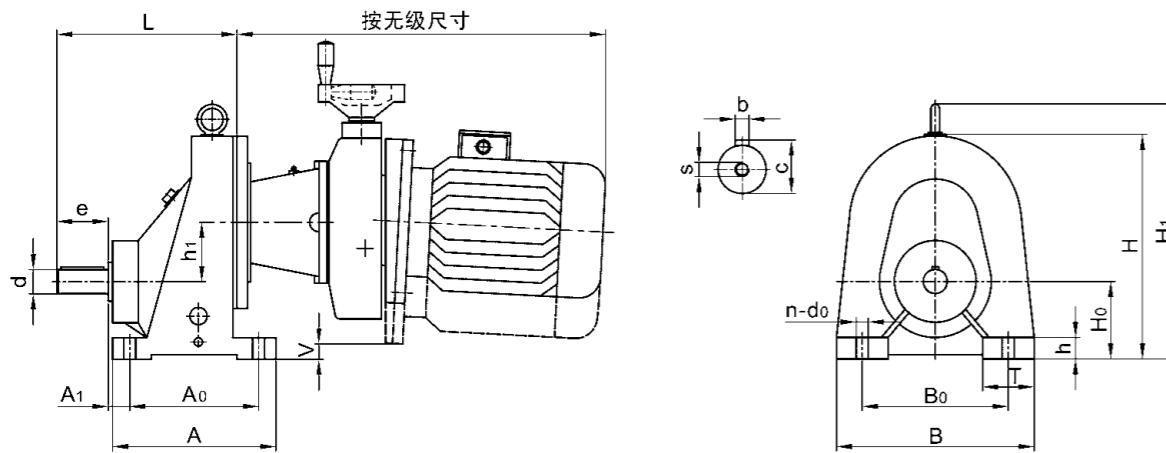


变速器类型 Type of gearbox	电机代号 Electromotor code	电机功率 Electromotor power	减速机类型 Type of reducer & variator	结构形式 Structure	减速机机座号 Type of reducer Housing No.	减速比 Reduction ratio	最低输出转速 Minimum output speed	手轮方位 Position and direction of handwheel	安装形式 Installation form	接线盒方位 Position and direction of terminal box	数显代号 Digimatic code
锥盘环盘无级变速器 ZH	普通 Y ₂ Normal Y ₂	See selections Parameter list	斜齿轮硬齿面减速机 C (CF)	普通轴伸式(省略) General Shaft-extension (omitted)	See selections Parameter list	See selections Parameter list	右手轮: R (齿轮齿条调速) Right handwheel R (speed adjustment by gear and rack)	见表 P34 See table P34	见表 P6 See the table P6	S	
	防爆 B Explosion protection B										
	制动 E Brake E										
	变频 V Frequency conversion V										
	变频制动 VE Brake by frequency conversion VE										
	多速 D Multi-speed D										
	分马力 F Fractional horsepower F										

ZH-C(CF) 系列选型参数表 | Parameter List Selections of ZH-C(CF) Series

变速器机座号 Housing No. of gearbox	输入功率 (kW) Input power	减速机机座号 Housing No. of reducer	减速比 Reduction ratio						
			6.4	4.6	3.7	3	2.2	1.7	
许用输出转矩 N·m Permissible output torque									
ZH07	四极 4-pole	0.37 0.55 0.75 1.1	26-11	19-8	15-6	12-5	9-3.7	7-2.8	
			39-16	28-11	22-9	18-7	13-5.4	10-4	
			53-21	38-15	31-12	25-10	18-7	14-5.7	
			60-31	54-22	44-18	35-15	26-11	20-8	
	六极 6-pole	0.37 0.55 0.75	40-16	29-12	23-9	19-8	14-5.6	11-4.3	
			60-24	43-18	35-14	28-11	20-8	16-6.5	
			60-33	60-24	48-19	39-16	28-11	22-9	
			45-270	63-378	78-468	97-582	132-792	170-1020	
ZH07	四极 4-pole	0.37 0.55 0.75 1.1	30-180	42-252	52-312	65-390	88-528	113-678	
			45-270	63-378	78-468	97-582	132-792	170-1020	
			83-33	60-24	48-19	39-16	28-11	22-9	
			45-270	63-378	78-468	97-582	132-792	170-1020	
	六极 6-pole	0.37 0.55 0.75	40-16	29-12	23-9	19-8	14-5.6	11-4.3	
			60-24	43-18	35-14	28-11	20-8	16-6.5	
			60-33	60-24	48-19	39-16	28-11	22-9	
			45-270	63-378	78-468	97-582	132-792	170-1020	
ZH15	四极 4-pole	1.1 1.5 2.2 3 0.75	91-31	65-23	52-18				
			119-42	86-31	69-25	56-20	41-15	32-11	
			125-55	112-40	90-32	73-26	54-19	42-15	
			125-75	125-54	108-43	88-35	65-26	50-20	
			94-33	68-24	54-19	44-16			
	六极 6-pole	1.1 1.5 2.2 3 0.75	125-49	99-35	80-28	65-23	47-17	37-13	
			125-58	117-42	94-34	76-27	56-20	43-15	
			125-85	125-61	116-49	94-40	69-29	53-23	
			45-270	63-378	78-468	97-582	132-792	170-1020	
			30-180	42-252	52-312	65-390	88-528	113-678	
ZH15	四极 4-pole	1.1 1.5 2.2	45-270	63-378	78-468	97-582	132-792	170-1020	
			119-42	86-31					
			156-55	112-40	90-32	73-26	54-19	42-15	
	六极 6-pole	3 1.1 1.5 2.2	188-75	135-54	108-43				

■ ZH-C 系列外形及安装尺寸 | Overall & Installation Dimension of ZH-C Series



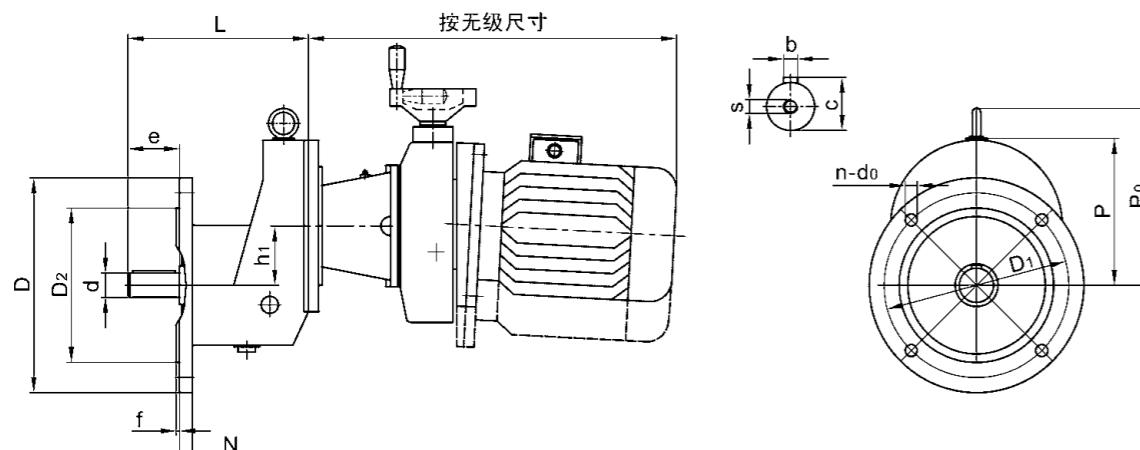
机座号 Housing No.	安装尺寸 Installation dimension						输出轴尺寸 Output shaft dimension				外形尺寸 Overall dimension						配置无级 机座号 Installed stepless housing no.				
	H0	A1	A0	B0	n	d0	h1	V	d	e	b	c	s	A	B	T	h	H	H1	L	
61	80	25	120	135	4	12	60	-20	25js6	50	8	28	M8	155	180	45	20	220	255	170	ZH07
71	90	25	150	170	4	14	69	18	40k6	80	12	43	M10	190	230	60	25	263	307	230	ZH07 ZH15
81	100	30	160	215	4	18	95	39	45k6	90	14	48.5	M12	210	290	70	35	320	365	250	ZH15

注: V 为负值表示电机低于安装底面; 相反为高于安装底面。

Note: If V is negative, it means that the electromotor is lower than the bottom of the housing;

While if V is positive, it means that the electromotor is higher than the bottom of the housing.

■ ZH-CF 系列外形及安装尺寸 | Overall & Installation Dimension of ZH-CF Series



机座号 Housing No.	安装尺寸 Installation dimension						输出轴尺寸 Output shaft dimension				外形尺寸 Overall dimension						配置无级 机座号 Installed stepless housing no.
	D1	D2	f	n	d0	h1	d	e	b	c	s	D	N	P	P0	L	
61	165	130h7	3.5	4	12	60	25js6	50	8	28	M8	200	12	138	175	170	ZH07
71	215	180h7	4	4	15	69	40k6	80	12	43	M10	250	15	173	217	230	ZH07 ZH15
81	265	230h7	5	4	15	95	45k6	90	14	48.5	M12	300	18	220	267	250	ZH15

ZH 系列锥盘环盘减变速机
ZH Series of Ring-Cone Disc Reducer & Variator

■ ZH-CJ 系列型号规格表示方式 | Denotation of specification & dimension of ZH-CJ Series

ZH Y 0.75 - CJ F 07 / 40 - 7 R - M - I - S

- 数显代号 Digimatic code
- 接线盒方位 Position and direction of terminal box
- 安装形式 Installation form
- 手轮方位 Position and direction of handwheel
- 最低输出转速 Minimum output speed
- 减速比 Reduction ratio
- 减速机机座号 Type of reducer Housing Number
- 结构形式 Structure
- 减速机类型 Type of reducer & variator
- 电机功率 Electromotor power
- 电机代号 Electromotor code
- 变速器类型 Type of gearbox

变速器类型 Type of gearbox	电机代号 Electromotor code	电机功率 Electromotor power	减速机类型 Type of reducer & variator	结构形式 Structure	减速机机座号 Type of reducer Housing No.	减速比 Reduction ratio	最低输出转速 Minimum output speed	手轮方位 Position and direction of handwheel	安装形式 Installation form	接线盒方位 Position and direction of terminal box	数显代号 Digimatic code
锥盘环盘 无级变速器 ZH	普通 Y2 Normal Y2		普通轴 伸式 (省略) General Shaft- extension (omitted)	斜齿轮硬齿 面减速机 CJ (CJF) helical gear reducer with hard surface CJ(CJF)	轴伸 法兰式 F Shaft extended & flange- mounted F	右手轮: R (齿轮齿条 调速) Right handwheel R (speed adjustment by gear and rack)	左手轮: L (齿轮齿条 调速) Left handwheel L (speed adjustment by gear and rack)	上手轮: T (丝杆调速) Top handwheel T (speed adjustment by lead screw)	见表 P34 See the table P34	见表 P6 See the table P6	S
	防爆 B Explosion protection B										
	制动 E Brake E										
	变频 V Frequency conversion V										
	变频制动 VE Brake by frequency conversion VE										
	多速 D Multi-speed D										
	分马力 F Fractional horsepower F										

■ ZH-CJ(CJF) 系列选型参数表 | Parameter List Selections of ZH-CJ(CJF) Series

变速器 机座号 Housing No. of gearbox	输入功率 (KW) Input power	减速机 机座号 Housing No. of reducer	减速比 Reduction ratio												
			139	109	91	69	46	40	25	20	16.8	10	7.5	6	
ZH07	0.37	CJ07 CJF07	500-222	430-174	359-145	272-110	182-74	158-64	98-40	79-32	66-27	39-16	30-12	24-10	
			0.55	500-327	500-256	500-214	402-162	268-108	233-94	145-58	116-47	98-39	58-24	43-18	35-14
			0.75	500-444	500-348	500-291	500-220	367-147	320-128	200-80	160-64	134-54	80-32	60-24	48-19
			1.1		500-427	500-324	500-216	451-188	282-118	225-94	190-79	113-47	85-35	67-28	
			0.37	500-340	500-266	500-222	421-168	281-112	244-98	152-61	122-49	102-41	61-24	46-18	37-15
			0.55		500-400	500-333	500-253	415-168	360-146	225-92	180-73	151-62	90-37	67-27	54-22
			0.75		500-453	500-343	500-229	496-199	310-125	248-100	208-84	124-50	93-37	74-30	
四极 4-pole	输出转速 r/min Output speed	2-12	2.6-16	3-18	4.2-25	6-36	7-42	11-66	14-84	17-102	29-174	38-228	48-288		
六极 6-pole	输出转速 r/min Output speed	1.3-7.8	1.7-10	2-12	2.8-17	4-24	4.5-27	7-42	9-54	11-66	19-114	25-150	32-192		



变速器 机座号 Housing No. of gearbox	输入功率 (KW) Input power	减速机 机座号 Housing No. of reducer	减速比 Reduction ratio												
			131	109	91	66	48	40	25	20.7	15.7	10	7.5	5.7	
许用输出转矩 N.m Permissible output torque															
ZH07	四极 4-pole	0.37	517-209	430-174											
		0.55	763-308	635-256	530-214	385-155									
		0.75	1000-418	870-348	727-291	527-111	367-147								
		1.1	1000-615	1000-512	1000-427	744-310	518-216	451-188							
	六极 6-pole	0.37	800-320	666-266	556-222	403-161									
		0.55	1000-480	983-400	821-333	595-242	415-168								
		0.75	1000-652	1000-543	1000-453	819-328	570-229	496-199							
		1.1													
		1.5													
		2.2													
输出转速 r/min Output speed															
输出转速 r/min Output speed															

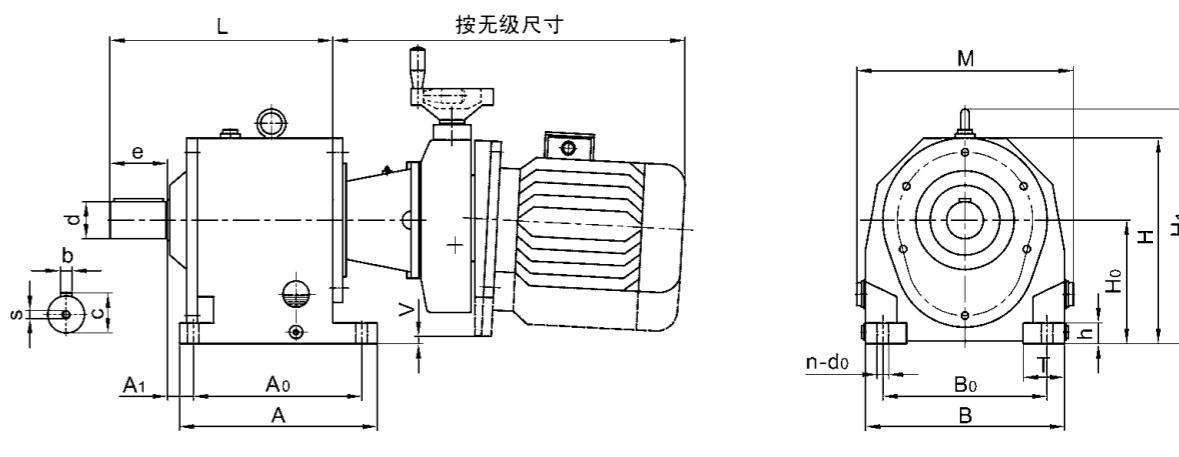
变速器 机座号 Housing No. of gearbox	输入功率 (KW) Input power	减速机 机座号 Housing No. of reducer	减速比 Reduction ratio												
			131	109	91	66	48	40	25	20.7	15.7	10	7.5	5.7	
许用输出转矩 N.m Permissible output torque															
ZH15	四极 4-pole	1.1	1000-615	1000-512	1000-428	900-310	654-225	545-188	340-118	282-97	214-74	136-47	102-35	78-27	
		1.5	1000-837	1000-696	1000-581	1000-422	857-306	714-255	446-160	370-132	280-100	178-64	134-48	102-36	
		2.2			1000-901	1000-752	1000-546	1000-397	940-330	587-206	488-171	369-130	235-83	176-62	
		3					1000-744	1000-541	1000-451	705-282	583-233	442-177	282-113	211-85	
	六极 6-pole	0.75	1000-652	1000-543	1000-453	930-328	676-239	564-199	352-124	292-103	221-78	141-50	106-37	80-28	
		1.1	1000-960	1000-800	1000-667	1000-484	992-352	827-293	517-183	428-152	325-115	207-73	155-55	118-42	
		1.5	1000-952	1000-795	1000-577	1000-420	978-350	611-218	506-181	383-137	244-87	183-65	139-50		
		2.2					1000-843	1000-613	1000-511	752-320	622-264	472-200	300-128	225-96	
		1.1													
		1.5													
输出转速 r/min Output speed															
输出转速 r/min Output speed															

变速器 机座号 Housing No. of gearbox	输入功率 (KW) Input power	减速机 机座号 Housing No. of reducer	减速比 Reduction ratio												
			112	93	72	64	48	40	25	20	17	10	7.5	6	
许用输出转矩 N.m Permissible output torque															
ZH15	四极 4-pole	1.1	1526-526	1267-437											
		1.5	2000-716	1660-594	1286-460	1143-409									
		2.2	2000-926	2000-769	1962-596	1504-529	1128-397								
		3	2000-1263	2000-1049	2000-812	1804-722	1353-541	1128-451							
	六极 6-pole	0.75	1579-558	1311-463	1015-358	902-319									
		1.1	2000-821	1923-682	1488-528	1323-469	992-352								
		1.5	2000-979	2000-813	1760-629	1564-560	1173-420	978-350							
		2.2	2000-1432	2000-1189	2000-920	1925-818	1443-613	1203-511							
		1.1													
		1.5													
输出转速 r/min Output speed															
输出转速 r/min Output speed															

ZH 系列锥盘环盘减变速机

ZH Series of Ring-Cone Disc Reducer & Variator

ZH-CJ 系列外形及安装尺寸 | Overall & Installation Dimension of ZH-CJ Series



■ ZH-R 系列型号规格表示方式 | Denotation of specification & dimension of ZH-R Series

ZH Y 0.55 - R F 87 / 40 - 7 R - M - I - S

数显代号
Digimatic code

接线盒方位
Position and direction of terminal box

安装形式
Installation form

手轮方位
Position and direction of handwheel

最低输出转速
Minimum output speed

减速比
Reduction ratio

减速机机座号
Type of reducer Housing Number

结构形式
Structure

减速机类型
Type of reducer & variator

电机功率
Electromotor power

电机代号
Electromotor code

变速器类型
Type of gearbox

ZH Y 0.55 - R F 87-R 47/683 - 0.4 R - M - I - S

数显代号
Digimatic code
接线盒方位
Position and direction of terminal box
安装形式
Installation form
手轮方位
Position and direction of handwheel
最低输出转速
Minimum output speed
减速比
Reduction ratio
减速机机座号
Type of reducer Housing NO.
减速机类型
Type of reducer & variator
减速机机座号
Type of reducer Housing NO.
结构形式
Structure
减速机类型
Type of reducer & variator
电机功率
Electromotor power
电机代号
Electromotor code
变速器类型

变速器 机座号 Housing No. of gearbox	输入功率 (KW) Input power	减速机 机座号 Housing No. of reducer	减速比 Reduction ratio											
			136	110	92	66	50	40	25	20	16.8	10	7.5	6
许用输出转矩 N.m Permissible output torque														
ZH07	四极	0.37	536-217											
		0.55	700-320	641-258	536-216									
		0.75	820-434	820-351	734-294	527-210								
		1.1	820-639	820-517	820-432	744-310	564-235							
	六极	0.37	820-332	672-268	562-225									
		0.55	820-498	820-403	820-337	595-242								
		0.75	820-677	820-548	820-458	818-328	620-249							
		1.1	820-639	820-517	820-432	820-310	681-235	545-188	340-118	272-94	228-78	136-47	102-35	81-28
ZH15	四极	1.5			820-588	820-421	820-320	713-255	446-160	357-128	300-107	178-64	134-48	107-38
		2.2				820-546	820-413	820-330	587-206	470-165	395-139	235-83	176-62	141-50
		3					820-564	820-451	705-282	564-225	473-190	282-113	211-85	169-68
		0.75	820-677	820-548	820-458	820-329	705-249	564-199	352-125	282-100	236-84	141-50	105-37	85-30
	六极	1.1			820-674	820-484	820-366	820-293	517-183	413-146	347-123	206-73	155-55	124-44
		1.5				820-577	820-437	820-350	611-218	488-175	410-146	244-87	183-65	146-52
		2.2					820-639	820-511	751-320	601-255	505-215	300-128	225-96	180-76
四极 4-pole	输出转速 r/min Output speed		2-12	2.6-16	3-18	4.4-26	5.6-34	7-42	11-66	14-84	17-102	29-174	38-228	48-288
六极 6-pole	输出转速 r/min Output speed		1.3-75	1.7-10	2-12	2.9-18	3.7-22	4.5-27	7-42	9-54	11-66	19-114	25-150	32-192

变速器类型 Type of gearbox	电机代号 Electromotor code	电机功率 Electromotor power	减速机类型 Type of reducer & variator	结构形式 Structure	减速机 机座号 Type of reducer Housing No.	减速比 Reduction ratio	最低输出转速 Minimum output speed	手轮方位 Position and direction of handwheel	安装形式 Installation form	接线盒方位 Position and direction of terminal box	数显代号 Digimatic code
锥盘环盘 无级变速器 ZH Cone-ring disc stepless variator ZH	普通 Y2 Normal Y2	见选型 参数表 See selections Parameter list	斜齿轮硬齿 面减速机 R(RF)	普通 轴伸式 (省略) General Shaft- extension (omitted)	见选型 参数表 See selections Parameter list	见选型 参数表 See selections Parameter list	见选型 参数表 See selections Parameter list	右手轮: R (齿轮齿条 调速) Right handwheel R (speed adjustment by gear and rack)	见表 P34 See the table P34	见表 P6 See the table P6	S
	防爆 B Explosion protection B							左手轮: L (齿轮齿条 调速) Left handwheel L (speed adjustment by gear and rack)			
	制动 E Brake E							上手轮: T (丝杆调速) Top handwheel T (speed adjustment by lead screw)			
	变频 V Frequency conversion V										
	变频制动 VE Brake by frequency conversion VE										
	多速 D Multi-speed D										
	分马力 F Fractional horsepower F										

变速器 机座号 Housing No. of gearbox	输入功率 (KW) Input power	减速机 机座号 Housing No. of reducer	减速比 Reduction ratio											
			137	108	92	66	50	40	25	20	16.8	10	7.5	6
			许用输出转矩 N.m Permissible output torque											
ZH07	四极	0.55	792-32											
		0.75	1086-434	878-351	735-294									
		1.1	1550-639	1240-517	1037-432	744-310								
	六极	0.37	830-332											
		0.55	1227-498	992-403	830-337									
		0.75	1550-677	1339-548	1141-458	818-328								
		1.1	1550-639	1472-517	1254-432	900-310	681-235							
ZH15	四极	1.5	1550-869	1550-703	1550-588	1178-421	893-320	714-255						
		2.2	1550-1125	1550-910	1550-761	1550-546	1175-413	940-330						
		3		1550-1240	1550-1038	1550-744	1410-564	1128-451	705-282					
		0.75	1550-677	1521-548	1296-458	930-329	705-249							
	六极	1.1	1550-997	1550-806	1550-674	1364-484	1034-366	827-293						
		1.5	1550-1189	1550-961	1550-804	1550-577	1222-437	977-350						
		2.2		1550-1176	1550-843	1503-639	1203-511	752-320						
四极 4-pole	输出转速 r/min Output speed	2-12	2.6-16	3-18	4.4-26	5.6-34	7-42	11-66	14-84	17-102	29-174	38-228	48-288	
六极 6-pole	输出转速 r/min Output speed	1.3-75	1.7-10	2-12	2.9-18	3.7-22	4.5-27	7-42	9-54	11-66	19-114	25-150	32-192	

ZH-R(RF) 系列选型参数表 | Parameter List Selections of ZH-R(RF) Series

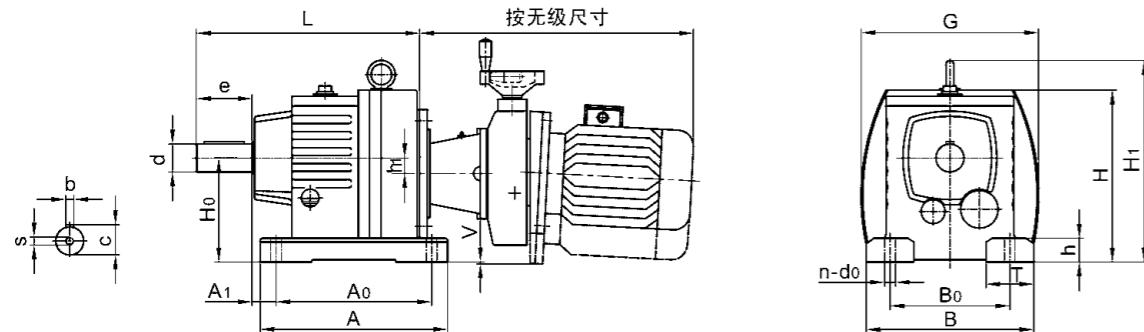
变速器 机座号 Housing No. of gearbox	输入功率 (KW) Input power	减速机 机座号 Housing No. of reducer	减速比 Reduction ratio											
			149	133	92	66	50	40	25	20	16.8	10	7.5	6
			许用输出转矩 N.m Permissible output torque											
ZH07	四极 4-pole	0.37	587-238	524-212	363-147	260-105	197-80	158-64	98-40	79-32	66-27	39-16	30-12	24-9
		0.55	600-350	600-312	535-216	384-155	291-118	233-94	146-59	116-47	98-39	58-24	44-18	35-14
		0.75	600-476	600-425	600-294	528-210	400-160	320-128	200-80	160-64	134-53	80-32	60-24	48-19
		1.1			600-432	600-310	563-235	451-188	282-117	225-94	190-79	113-47	85-35	68-28
	六极 6-pole	0.37	600-364	600-325	561-225	403-161	305-122	244-98	152-61	122-49	102-41	61-24	46-18	37-15
		0.55		600-487	600-337	595-242	451-183	360-146	225-92	180-73	151-61	90-37	68-27	54-22
		0.75			600-458	600-328	600-249	496-199	310-124	248-99	208-83	124-50	93-37	74-30
四极 4-pole	输出转速 r/min Output speed		1.9-11.4	2.1-12.6	3-18	4.4-26	5.6-34	7-42	11-66	14-84	17-102	29-174	38-228	48-288
六极 6-pole	输出转速 r/min Output speed		1.2-7.2	1.4-8.4	2-12	2.9-18	3.7-22	4.5-27	7-42	9-54	11-66	19-114	25-150	32-192

变速器 机座号 Housing No. of gearbox	输入功率 (KW) Input power	减速机 机座号 Housing No. of reducer	减速比 Reduction ratio											
			137	108	92	66	50	40	25	20	16.8	10	7.5	6
			许用输出转矩 N.m Permissible output torque											
ZH07	四极	1.1	R97	1534-639										
	六极	0.75		1687-677	1364-548									
ZH15	四极	1.1	RF97	1853-639	1499-517									
		1.5		2491-869	1964-703	1643-588								
		2.2		3000-1125	2538-910	2162-761	1551-546							
		3		3000-1534	3000-1240	2594-1038	1861-744	1410-564						
		0.75		1917-677	1551-548	1297-458								
	六极	1.1		2884-997	2274-806	1902-674	1365-484							
		1.5		3000-1189	2638-961	2248-804	1613-577							
		2.2		3000-1738	3000-1406	2766-1176	1985-843	1504-639						
四极 4-pole	输出转速 r/min Output speed		2-12	2.6-16	3-18	4.4-26	5.6-34	7-42	11-66	14-84	17-102	29-174	38-228	48-288
六极 6-pole	输出转速 r/min Output speed		1.3-75	1.7-10	2-12	2.9-18	3.7-22	4.5-27	7-42	9-54	11-66	19-114	25-150	32-192

ZH-R(RF)-R 系列选型参数表 | Parameter List Selections of ZH-R(RF)-R Series

变速器 机座号 Housing No. of gearbox	输入 功率 (KW) Input power	减速机 机座号 Housing No. of reducer	减速比 Reduction ratio								
			2129	1524	1306	1037	883	683	472	351	256
ZH07	0.37	R87-R47	许用输出转矩 N.m Permissible output torque								
	0.55		1550-1091	1550-754	1384-560	1010-409					
	0.75	RF87-R47	1550-1109	1550-824	1500-601						
	1.1		1550	1550-1121	1550-818						1550-1203
输出转速 r/min Output speed			0.13-0.78	0.19-1.14	0.22-1.32	0.28-1.68	0.32-1.92	0.4-2.4	0.6-3.6	0.8-4.8	1.1-6.6

变速器 机座号 Housing No. of gearbox	输入 功率 (KW) Input power	减速机 机座号 Housing No. of reducer	减速比 Reduction ratio								
			4304	3016	2016	1434	937	755	484	336	227
ZH07	0.37	R97-R67	许用输出转矩 N.m Permissible output torque								
	0.55		3000-2291	3000-1497	2979-1206	1910-773	1326-537	896-362			
	0.75	RF97-R67	3000-2202	3000-1774	2820-1137	1958-790	1323-533				
	1.1		3000	3000-1546	2683-1073	1813-725					
ZH15	1.1	RF97-R67	3000-2275	3000-1579	2659-1067						
	1.5		3000-2275	3000-1579	2659-1067						
输出转速 r/min Output speed			0.07-4.2	0.1-0.6	0.14-0.84	0.2-1.2	0.3-1.8	0.38-2.28	0.6-3.6	0.86-5.2	1.28-7.7

ZH-R 系列外形及安装尺寸 | Overall & Installation Dimension of ZH-R Series


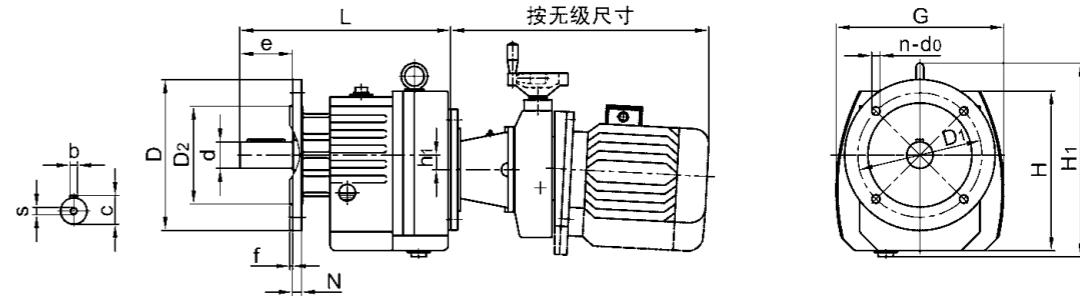
机座号 Housing No.	安装尺寸 Installation dimension							输出轴尺寸 Output shaft dimension					外形尺寸 Overall dimension							配置无级 机座号 Installed stepless housing no.		
	H0	A1	A0	B0	n	d0	h1	V	d	e	b	c	s	A	B	T	h	H	H1	G	L	
67	130	30	195	150	4	13.5	19.5	31	35js6	70	10	38	M10	235	210	60	30	215	252	220	280	ZH07
77	140	35	205	170	4	17.5	10	11	40k6	80	12	43	M12	245	230	60	30	235	277	240	300	ZH07
								26													ZH15	
87	180	40	260	215	4	17.5	17	-22	50k6	100	14	53.5	M12	310	290	75	45	300	342	306	372	ZH07
								-7													ZH15	
97	225	40	310	250	4	22	11	-73	60k6	120	18	64	M16	365	340	90	55	370	415	356	440	ZH07
								-58													ZH15	

注: V为负值表示电机高于安装底面; 相反为低于安装底面。

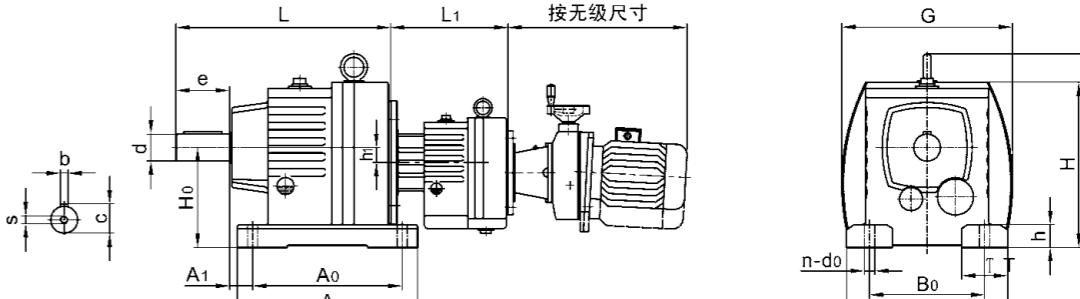
Note: If V is negative, it means that the electromotor is lower than the bottom of the housing;

While if V is positive, it means that the electromotor is higher than the bottom of the housing.

ZH 系列锥盘环盘减变速机
ZH Series of Ring-Cone Disc Reducer & Variator

ZH-RF 系列外形及安装尺寸 | Overall & Installation Dimension of ZH-RF Series


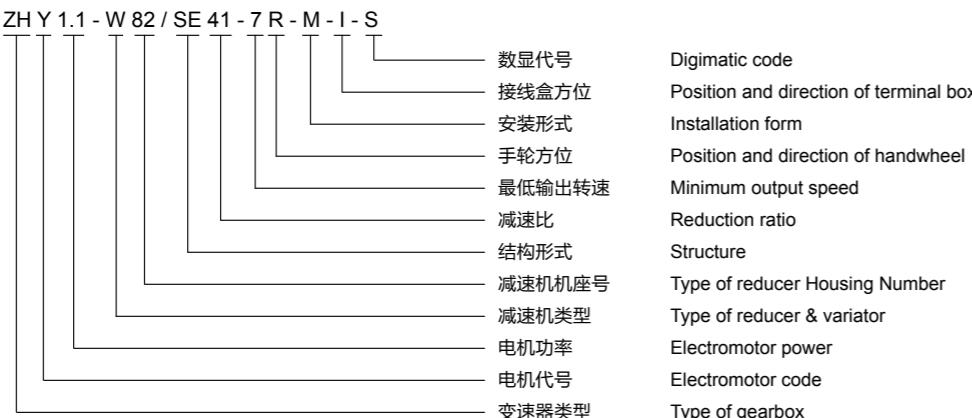
机座号 Housing No.	安装尺寸 Installation dimension					输出轴尺寸 Output shaft dimension					外形尺寸 Overall dimension					配置无级 机座号 Installed stepless housing no.		
	D1	D2	f	n	d0	h1	d	e	b	c	s	D	N	H	H1	G	L	
67	165	130h7	3.5	4	11	19.5	35js6	70	10	38	M10	200	12	214	256	220	280	ZH07
77	215	180h7	4	4	13.5	10	40k6	80	12	43	M12	250	15	231	278	240	300	ZH07 ZH15
87	265	230h7	5	4	13.5	17	50k6	100	14	53.5	M12	300	16	296	353	306	372	ZH07 ZH15
97	300	250h7	5	4	17.5	11	60k6	120	18	64	M16	350	18	365	415	356	440	ZH07 ZH15

ZH-R-R 系列外形及安装尺寸 | Overall & Installation Dimension of ZH-R-R Series


机座号 Housing No.	安装尺寸 Installation dimension							输出轴尺寸 Output shaft dimension					外形尺寸 Overall dimension	
--------------------	--------------------------------	--	--	--	--	--	--	---------------------------------	--	--	--	--	---------------------------	--

ZH-W(WS) 系列型号规格表示方式

Denotation of Specification & Dimension of ZH-W(WS) Series



变速器类型 Type of gearbox	电机代号 Electromotor code	电机功率 Electromotor power	减速机类型 Type of reducer & variator	减速机机座号 Housing No. of reducer	结构形式 Structure	减速比 Reduction ratio	最低输出转速 Minimum output speed	手轮方位 Position and direction of handwheel	安装形式 Installation form	接线盒方位 Position and direction of terminal box	数显代号 Digimatic code
锥盘环盘无级变速器 ZH	普通 Y ₂ Normal Y ₂	W 斜齿 - 蜗轮蜗杆减速机 W helical gear of gear worm gear reducer	见选型参数表 See selections Parameter list	轴装式 SE Shaft-mounted SE	右手轮：R (齿轮齿条调速) Right handwheel R (speed adjustment by gear and rack)	S	见表 P34 See the table P34	见表 P6 See the table P6	S	见表 P34 See the table P34	见表 P6 See the table P6
	防爆 B Explosion protection B										
	制动 E Brake E										
	变频 V Frequency conversion V										
	变频制动 VE Brake by frequency conversion VE										
	多速 D Multi-speed D										
	分马力 F Fractional horsepower F										

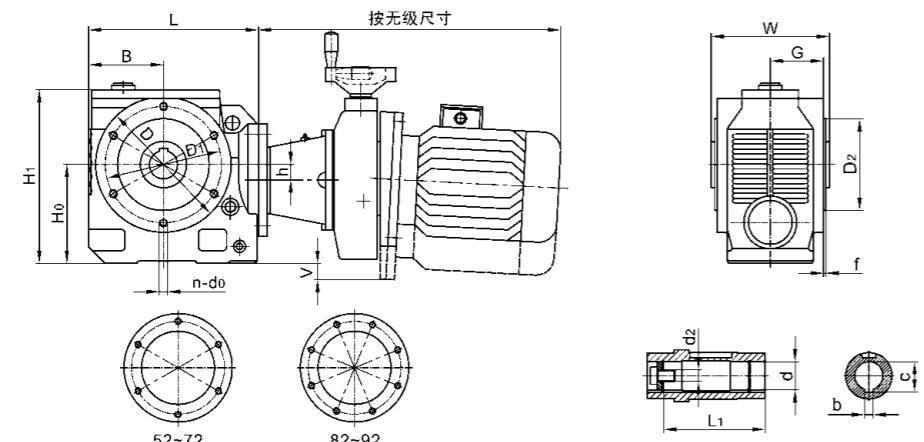
注：WS系列型号无结构形式一档。

Note: WS series type has no grade one structure.

ZH-W(WS) 系列选型参数表 | Parameter list Selections of ZH-W(WS) Series

变速器机座号 Housing No. of gearbox	输入功率 (KW) Input power	减速机机座号 Housing No. of reducer	减速比 Reduction ratio													
			118	96	71	67	50	41	30	20	17	14				
许用输出转矩 N.m Permissible output torque																
ZH07	四极	W52 WS52	0.37	264-110	233-96	202-82	197-80	147-60	122-50	92-37	63-26	54-22	47-19	41-17	35-14	
			0.55	264-162	264-139	264-120	264-117	217-88	180-72	135-55	93-38	80-32	69-28	61-25	51-21	
			0.75	264-220	264-189	264-164	264-159	264-119	247-99	186-74	128-51	110-44	95-38	83-33	70-28	
			1.1		264-241	264-234	264-175	264-146	262-110	180-75	155-65	134-56	118-49	100-42		
	六极		0.37	264-168	264-145	264-125	264-122	227-91	189-76	142-57	98-39	84-34	73-29	64-26	54-22	
			0.55	264-253	264-217	264-188	264-183	264-136	264-113	210-85	144-59	124-50	108-44	94-38	80-32	
			0.75		264-255	264-248	264-185	264-154	264-116	198-80	170-68	148-59	130-52	110-44		
	四极 4-pole 输出转速 r/min Output speed		2.4-14	3-18	4-24	4.3-26	5.6-34	7-42	9.5-57	14.5-87	17-102	20-120	24-144	29-174		
六极 6-pole 输出转速 r/min Output speed		1.6-9.6	2-12	2.6-16	2.8-17	3.7-22	4.5-27	6-36	9.5-57	11-66	13-78	16-96	19-114			

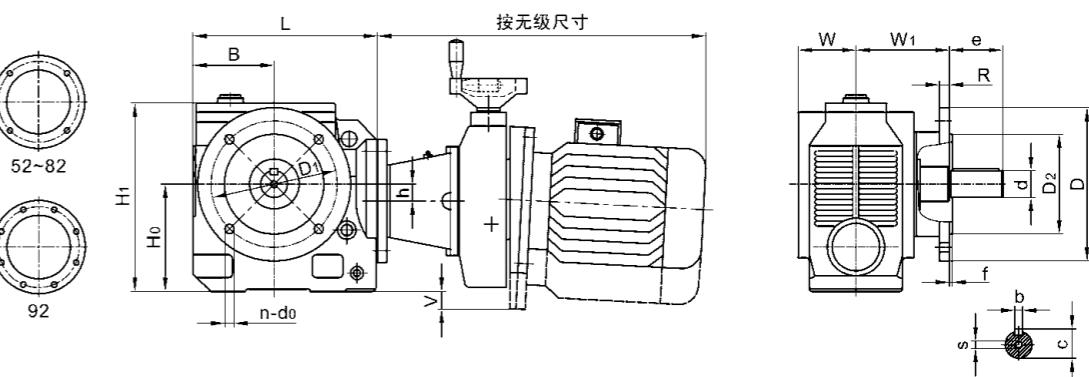
变速器机座号 Housing No. of gearbox	输入功率 (KW) Input power	减速机机座号 Housing No. of reducer	减速比 Reduction ratio												
			129	115	93	67	50	41	25	20	17.5	14.5	12	10	
			许用输出转矩 N.m Permissible output torque												
ZH07	0.37		308-125	285-115											
	0.55		455-183	420-170	357-144	257-104									
	0.75		517-250	517-230	490-196	353-141	298-119								
	1.1		517-368	517-340	517-288	498-208	420-175	349-146							
	0.37		478-191	441-176	375-150	270-108									
	0.55		517-287	517-265	517-226	399-162	336-136	280-113							
	0.75		517-390	517-360	517-305	517-220	462-186	384-154	250-100						
	1.1		517-368	517-340	517-288	517-208	507-175	422-146	275-95	232-80	203-70	172-59	142-49	120-42	
	1.5		517-500	517-461	517-392	517-282	517-238	517-198	361-129	304-108	266-95	226-81	186-67	158-56	
	2.2				517-507	517-365	517-308	517-256	475-167	400-140	350-123	297-105	246-86	207-73	
	3					517-498	517-420	517-350	517-228	480-192	420-168	356-142	295-118	249-100	
	0.75		517-390	517-360	517-305	517-220	517-186	436-154	285-100	210-74	178-63	147-52	124-44		
	1.1					517-450	517-324	517-273	517-227	418-148	352-125	308-109	261-93	216-77	182-65
	1.5					517-386	517-326	517-270	517-247	494-177	416-148	364-130	309-110	255-92	215-77
	2.2							517-4							

ZH-W/SE 系列外形及安装尺寸 | Overall & Installation Dimension of ZH-W/SE Series


机座号 Housing No.	安装尺寸 Installation dimension						输出轴尺寸 Output shaft dimension			外形尺寸 Overall dimension						配置无极机座号 Installed stepless housing no.				
	H ₀	D ₁	D ₂	h	f	n	d ₀	V	d	b	c	L ₁	d ₂	D	G	W	B	H ₁	L	
52	112	130	110h7	24	3.5	6	M8	53	35H7	10	38.3	132	M12	150	70	150	80	197	187	ZH07
								25	40H7	12	43.3	144	M16	190	75	168	106	246	241	ZH07
62	140	165	130h7	24	3.5	6	M10	40	40H7	12	43.3	144	M16	190	75	168	106	246	241	ZH15
								-6	50H7	14	53.8	180	M20	240	97	210	125	315	287	ZH07
72	180	215	180h7	33	4	6	M12	9	50H7	14	53.8	180	M20	240	97	210	125	315	287	ZH15
								-44	60H7	18	64.4	220	M20	292	120	250	150	385	340	ZH07
82	225	265	230h7	40	4	8	M12	-29	60H7	18	64.4	220	M20	292	120	250	150	385	340	ZH15
								-86	70H7	20	74.9	260	M24	384	140	290	180	490	420	ZH07
92	280	350	300h7	53	5	8	M16	-71	70H7	20	74.9	260	M24	384	140	290	180	490	420	ZH15

注: V 为负值表示电机高于安装底面, 相反为低于安装底面。

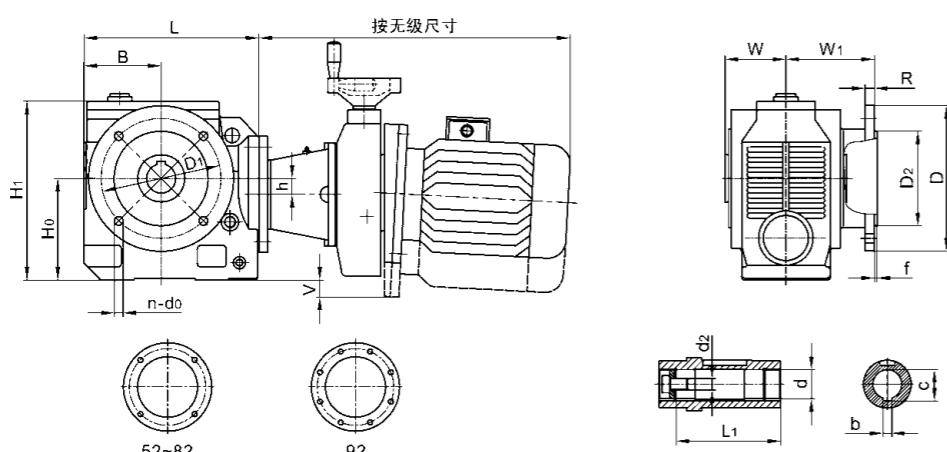
Note: If V is negative, it means that the electromotor is lower than the bottom of the housing;
while if V is positive it means that the electromotor is higher than the bottom of the housing.

ZH-W/SK 系列外形及安装尺寸 | Overall & Installation Dimension of ZH-W/SK Series


机座号 Housing No.	安装尺寸 Installation dimension								输出轴尺寸 Output shaft dimension				外形尺寸 Overall dimension						配置无极机座号 Installed stepless housing no.		
	H ₀	D ₁	D ₂	h	f	W ₁	n	d ₀	V	d	e	b	c	s	D	R	W	B	H ₁	L	
52	112	165	130h7	24	3.5	100	4	12	53	35H7	10	38.3	132	M12	200	12	150	80	197	187	ZH07
								25	40H7	12	43.3	144	M16	200	12	168	106	246	241	ZH07	
62	140	165	130h7	24	3.5	122	4	12	40	40H7	12	43.3	144	M16	200	12	168	106	246	241	ZH15
								-6	50H7	14	53.8	180	M20	250	14	210	125	315	287	ZH07	
72	180	215	180h7	33	4	140	4	14	9	50H7	14	53.8	180	M20	250	14	210	125	315	287	ZH15
								-44	60H7	18	64.4	220	M20	350	18	250	150	385	340	ZH07	
82	225	300	250h7	40	5	170	4	18	-29	60H7	18	64.4	220	M20	350	18	250	150	385	340	ZH15
								-86	70H7	20	74.9	260	M24	450	20	290	180	490	420	ZH07	
92	280	400	350h7	53	5	200	8	18	-71	70H7	20	74.9	260	M24	450	20	290	180	490	420	ZH15

注: V 为负值表示电机高于安装底面, 相反为低于安装底面。

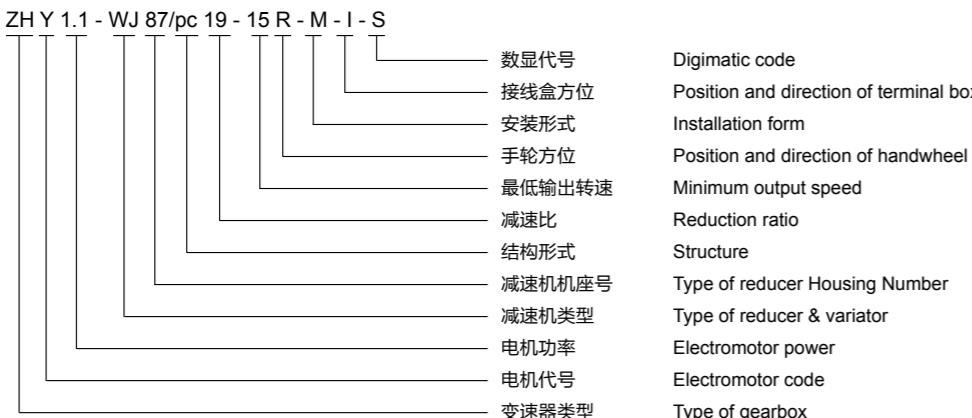
Note: If V is negative, it means that the electromotor is lower than the bottom of the housing;
while if V is positive it means that the electromotor is higher than the bottom of the housing.

ZH-W/SF 系列外形及安装尺寸 | Overall & Installation Dimension of ZH-W/SF Series


机座号 Housing No.	安装尺寸 Installation dimension						输出轴尺寸 Output shaft dimension			外形尺寸 Overall dimension						配置无极机座号 Installed stepless housing no.					
	H ₀	D ₁	D ₂	h	f	W ₁	n	d ₀	V	d	b	c	L ₁	d ₂	D	R	W	B	H ₁	L	
52	112	165	130h7	24	3.5	100	4	12	53	35H7	10	38.3	132	M12	200	12	150	80	197	187	ZH07
								25	40H7	12	43.3	144	M16	200	12	168	106	246	241	ZH07	
62	140	165	130h7	24	3.5	122	4	12	40	40H7	12	43.3	144	M16	200	12	168	106	246	241	ZH15
								-6	50H7	14	53.8	180	M20	250	14	210	125	315	287	ZH07	
72	180	215	180h7	33	4	140	4	14	9	50H7	14	53.8	180	M20	250	14	210	125	315	287	ZH15
								-44	60H7	18	64.4	220	M20	350	18	250	150	385	340	ZH07	
82	225	300	250h7	40	5	170	4	18	-29	60H7	18	64.4	220	M20	350	18	250	150	385	340	ZH15
								-86	70H7	20	74.9	260	M24	450	20	290	180	490	420	ZH07	
92	280	400	350h7	53	5	200	8	18	-71	70H7	20	74.9	260	M24	450	20	290	18			

ZH-WJ 系列型号规格表示方式

Denotation of Specification & Dimension of ZH-WJ Series



变速器类型 Type of gearbox	电机代号 Electromotor code	电机功率 Electromotor power	减速机类型 Type of reducer & variator	减速机机座号 Type of reducer Housing No.	结构形式 Structure	减速比 Reduction ratio	最低输出转速 Minimum output speed	手轮方位 Position and direction of handwheel	安装形式 Installation form	接线盒方位 Position and direction of terminal box	数显代号 Digimatic code
锥盘环盘无级变速器 ZH	普通 Y ₂ Normal Y ₂	见选型参数表 See selections Parameter list	WJ 蜗轮蜗杆减速机 WJ of gear-worm gear reducer	见选型参数表 See selections Parameter list	X型：轴装式 X type: shaft-mounted	见选型参数表 See selections Parameter list	见表 P34 See the table P34	见表 P6 See the table P6	S	右手轮: R (齿轮齿条调速) Right handwheel R (speed adjustment by gear and rack)	注: V 为负值表示电机高于安装底面, 相反为低于安装底面。 Note: If V is negative, it means that the electromotor is higher than the bottom of the housing; while if V is positive it means that the electromotor is lower than the bottom of the housing.
	防爆 B Explosion protection B				S型：轴装式 S type: shaft-mounted					左手轮: L (齿轮齿条调速) Left Handwheel L (speed adjustment by gear and rack)	
	制动 E Brake E				sh型：轴装轴 Sh type: shaft-mounted shaft					上手轮: T (丝杆调速) Top handwheel T (speed adjustment by lead screw)	
	变频 V Frequency conversion V				F型：轴装轴 F type: shaft-mounted shaft					pd型：轴装法兰式 pd type: shaft & flange-mounted	
	变频制动 VE Brake by frequency conversion VE				pc型：轴装法兰式 pc type: shaft & flange-mounted					pd型：轴装法兰式 pd type: shaft & flange-mounted	
	多速 D Multi-speed D										
	分马力 F Fractional horsepower F										

ZH-WJ 系列选型参数表 | Parameter List Selections of ZH-WJ Series

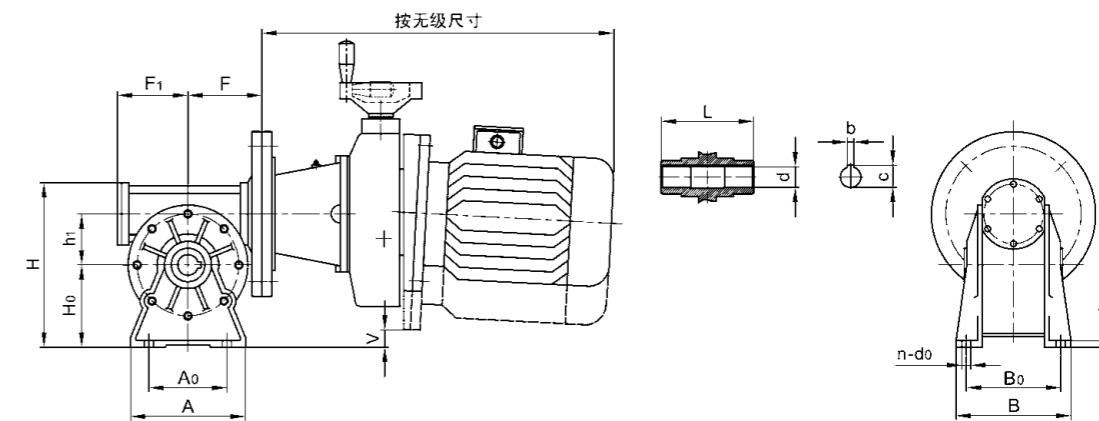
变速器机座号 Housing No. of gearbox	输入功率 (KW) Input power		减速机机座号 Housing No. of reducer	减速比 Reduction ratio						
				36	26	18	13.5	7		
	许用输出转矩 N.m Permissible output torque									
ZH07	四极	0.37	WJ49	76-31	68-27	51-21	40-16	25-10		
		0.55		112-45	100-40	76-31	59-24	36-15		
		0.75		116-61	116-55	104-42	81-33	50-20		
	六极	0.37		116-47	105-42	80-32	62-25	38-15		
		0.55		116-70	116-63	116-48	92-37	56-23		
	四极 4-pole	输出转速 r/min Output speed		8-48	11-66	16-96	21-126	41-246		
	六极 6-pole	输出转速 r/min Output speed		5-30	7-42	11-66	14-84	27-162		

变速器机座号 Housing No. of gearbox	输入功率 (KW) Input power		减速机机座号 Housing No. of reducer	减速比 Reduction ratio						
				49	37	19	14.5	7.5		
	许用输出转矩 N.m Permissible output torque									
ZH07	四极	0.37	WJ62	107-43	85-35	56-23	43-17	26-11		
		0.55		158-64	126-51	82-33	63-25	39-16		
		0.75		216-87	173-69	113-45	86-35	53-21		
	六极	1.1		300-127	244-101	160-67	121-51	75-31		
		0.37		165-66	132-53	86-35	66-26	41-16		
	六极	0.55		244-99	195-79	127-52	97-40	60-24		
		0.75		300-135	268-108	175-70	134-54	83-33		
	四极 4-pole	输出转速 r/min Output speed		6-36	7.5-45	15-90	20-120	38-228		
	六极 6-pole	输出转速 r/min Output speed		4-24	5-30	10-60	13-78	25-150		

ZH 系列锥盘环盘减变速机

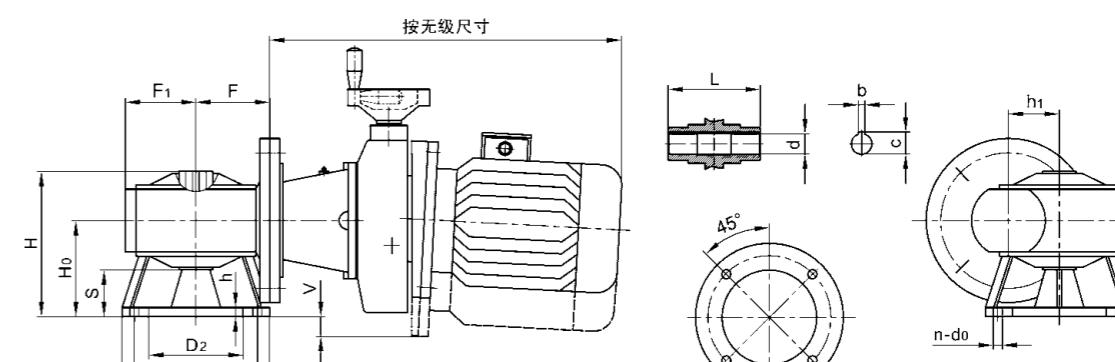
ZH Series of Ring-Cone Disc Reducer & Variator

ZH-WJ/S 系列外形及安装尺寸 | Overall & Installation Dimension of ZH-WJ/S Series



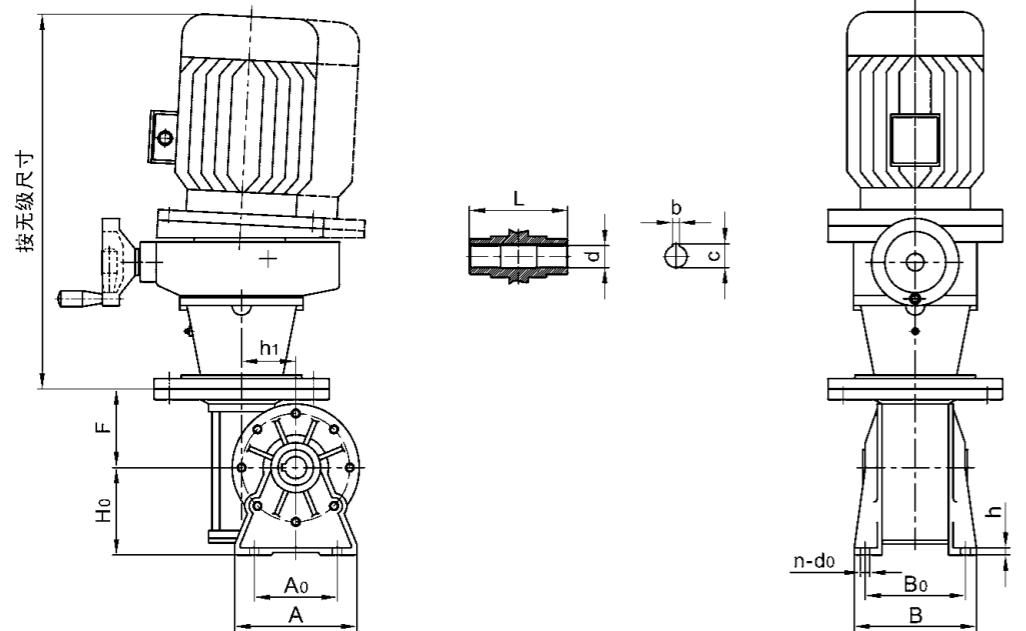
机座号 Housing No.	安装尺寸 Installation dimension							输出轴尺寸 Output shaft dimension			外形尺寸 Overall dimension					配置无级机座号 Installed stepless housing No.		
	H ₀	A ₀	B ₀	n	d ₀	h ₁	V	d	L	b	c	A	B	h	H	F	F ₁	
49	82	64	98	4	9	49	-10	25H7	82	8	28.3	110	124	12	162	68	64	ZH07
62	100	95	115	4	11	62	21	25H7	120	8	28.3	140	140	12	199	90	86	ZH07
87	142	140	146	4	13	87	73	35H7	140	10	38.3	200	182	14	280	121	116	ZH15

ZH-WJ/pc 系列外形及安装尺寸 | Overall & Installation Dimension of ZH-WJ/pc Series



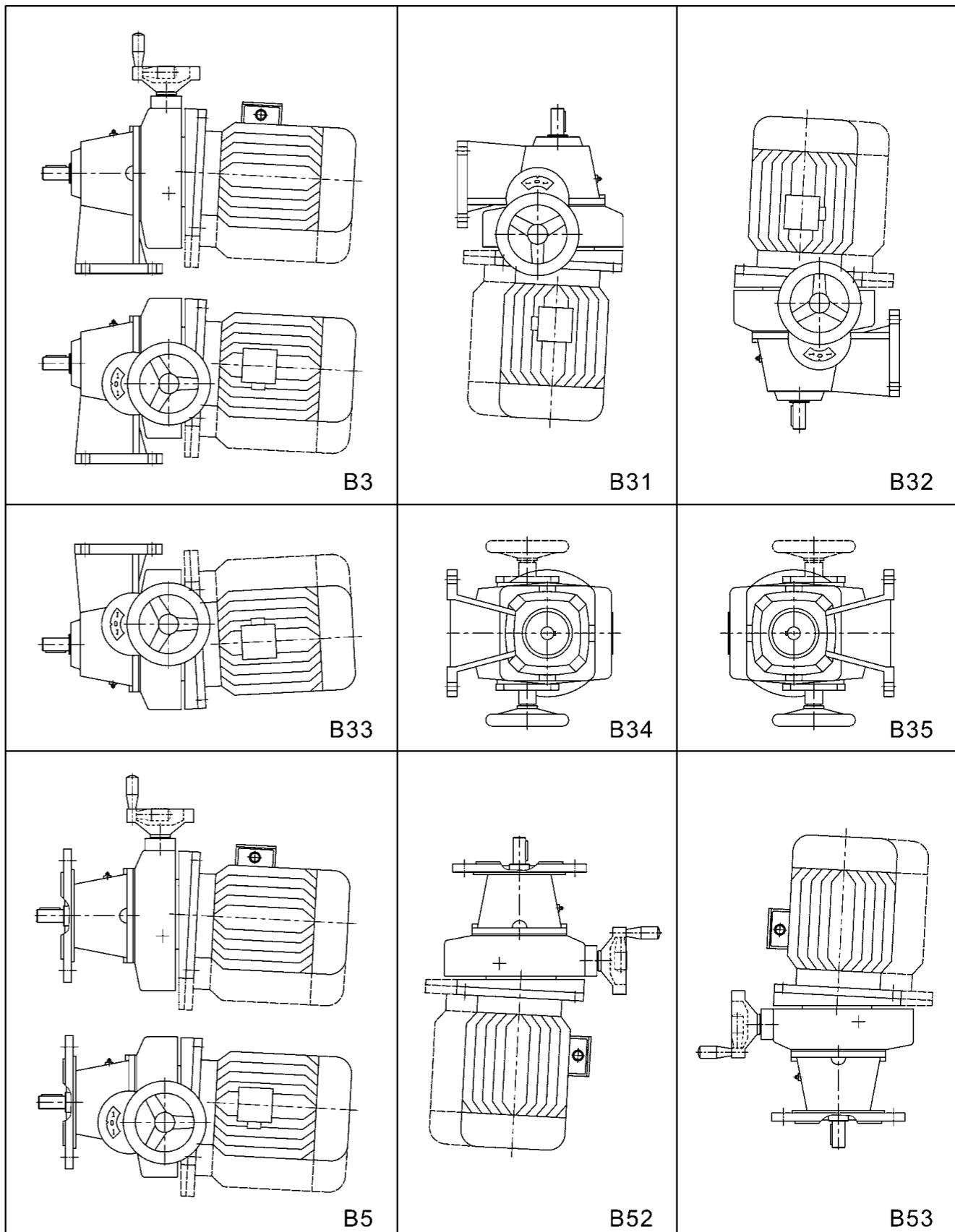
机座号 Housing No.	安装尺寸 Installation dimension							输出轴尺寸 Output shaft dimension			外形尺寸 Overall dimension					配置无级机座号 Installed stepless housing No.
	H ₀	D _{1</}														

■ ZH-WJ/Sh 系列外形及安装尺寸 | Overall & Installation Dimension of ZH-WJ/Sh Series



机座号 Housing No.	安装尺寸 Installation dimension						输出轴尺寸 Output shaft dimension			外形尺寸 Overall dimension				配置无级 机座号 Installed stepless housing no.	
	H ₀	A ₀	B ₀	n	d ₀	d ₁	d	L	b	c	A	B	h	F	
49	82	64	98	4	9	49	25H7	82	8	28.3	110	124	12	68	ZH07
62	100	95	115	4	11	62	25H7	120	8	28.3	140	140	12	90	ZH07
87	142	140	146	4	13	87	35H7	140	10	38.3	200	182	14	121	ZH15

■ ZH 系列安装形式 | Installation Type of ZH Series



注：组合型减变速机安装方位参照所配的减速机。

Note: Please take the assembled reducer as reference for the installation of combined reducers & variators.