

品质源三凯 口碑自然来
SUCCESS BREEDS SUCCESS

SKGR 三凯

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SUCCESS BREEDS SUCCESS



浙江三凯机电有限公司
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传动装置 专业制造商

螺旋伞齿轮减速机



随着传动技术的高速发展

全球范围内的传统传动设备发生了翻天覆地的重大变革

传动产品也迎来全新的机遇

特别是智能化技术的应用和普及也为它注入了新鲜的血液

使得整体行业的生命力更加旺盛

螺旋伞齿轮减速机正在转变

.....

三凯也在改变

.....

With the rapid development of transmission technology

Traditional transmission equipment has undergone a significant transformation worldwide

Transmission products also welcome new opportunities

Especially the application and popularization of intelligent technology have injected fresh blood into it, making the

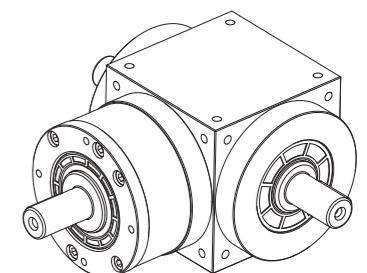
Overall vitality of the industry even stronger

Reducers undergoing a transformation

.....

SKGR is also changing

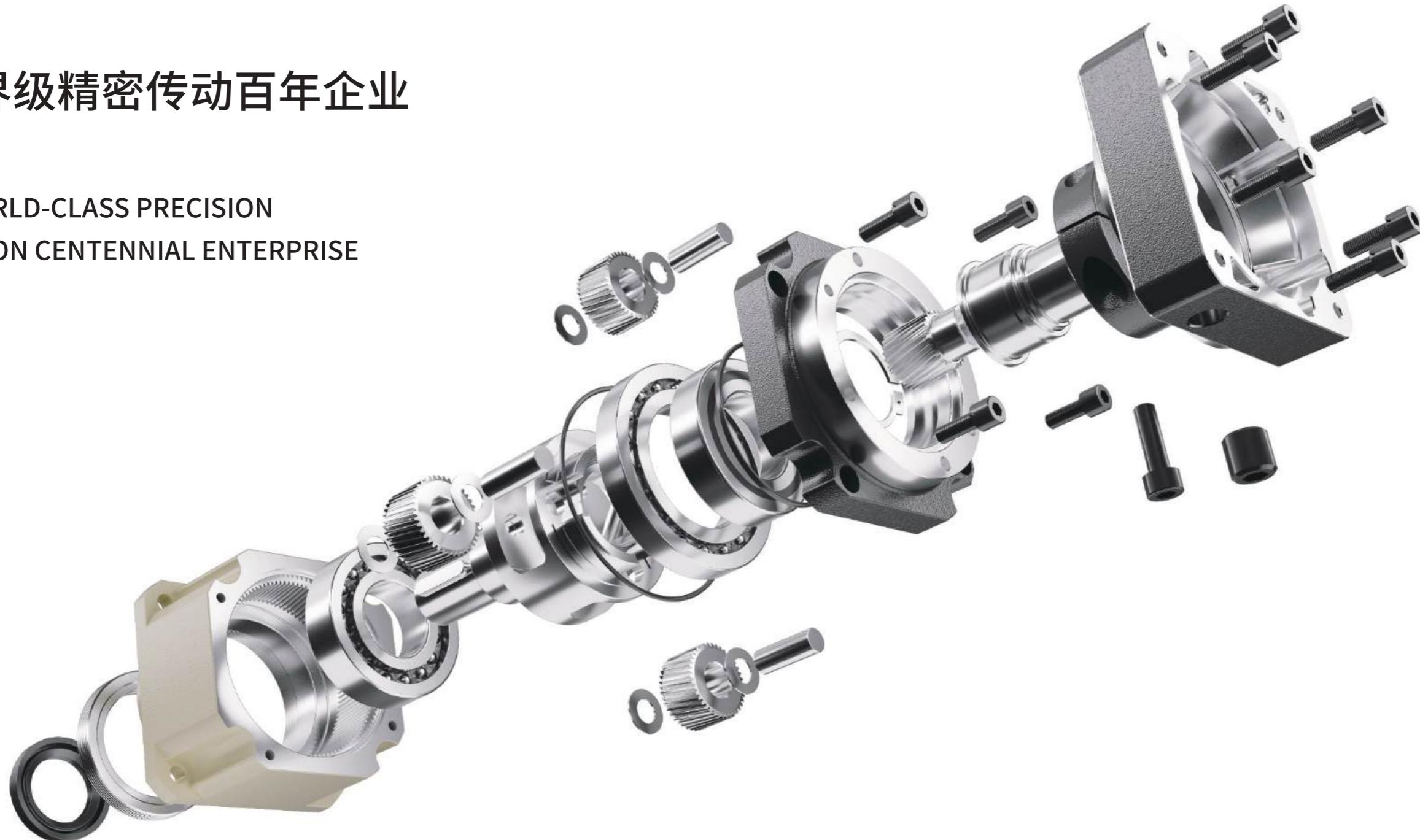
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愿景

成为世界级精密传动百年企业

BECOME WORLD-CLASS PRECISION
TRANSMISSION CENTENNIAL ENTERPRISE



企业介绍

COMPANY PROFILE



使命

MISSION 以技术为本, 弘扬工业精神

愿景

VISION 成为世界级精密传动百年企业

浙江三凯机电有限公司，传动行业知名创新企业。总部位于中国东南沿海浙江省台州市，是一家集科研、生产、销售于一体的动力传动装置研发制造商，在全国精密行星减速机行业细分领域排名前列。

三凯生产的减速机型号齐全，拥有精密行星减速机、工程行星减速机、谐波减速器、斜齿-准双曲面齿轮减速机、蜗轮蜗杆减速机、伺服电机、伺服驱动等产品。广泛服务于人形机器人、太阳能光伏、新能源动力、3C电子、钢铁冶金、智能物流、医疗设备、航空航天等行业领域。是美的库卡、西门子医疗、京东、大族激光等知名企业的终端供应商。

公司拥有浙江台州温岭两大制造基地（滨海、东部新区）、杭州销售及研发中心。拥有13项发明专利，33项实用新型专利，68项外观设计专利，以及ISO9001、ISO14001、ISO45001等体系认证。

相继荣获国家级专精特新“小巨人”企业、国家高新技术企业、国家知识产权优势企业、浙江省级企业技术中心、浙江省级高新技术企业研究院、浙江省隐形冠军培育企业、浙江省级制造精品企业、中国机械工业名牌产品等多项荣誉资质。

“三凯”品牌服务于五十多个行业，国内服务商500多家，出口东南亚、欧美等国家和地区。

三凯携手浙江工业大学等各类院校科研院所，深化产学研合作，实施智能制造及技术创新。作为中国通用机械协会减速机分会的重要成员企业、温岭市3项机床装备行业团体标准制定单位，三凯积极推动中国传动行业发展。“以技术为本，弘扬工业精神”为使命，秉承“诚信利他，进取敬畏，成就客户，同心同德，创新发展，追求卓越”的核心价值观，致力于开发生产高效、节能、环保型传动产品，为中国梦尽献三凯力量。

Zhejiang Sankai Mechanical and Electrical Co., Ltd is a well-known innovative enterprise in transmission industry. Headquartered in Taizhou City, Zhejiang Province, southeast coast of China, it is a R&D and manufacturer of power transmission devices integrating scientific research, production and sales, and ranks among the top in the national precision planetary gearbox industry segment.

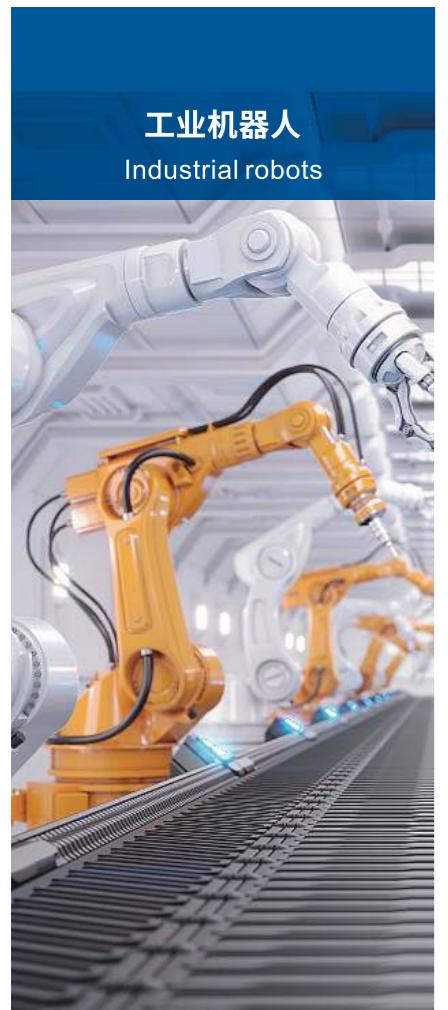
SKGR produces a complete range of gear box models, including precision planetary gearbox, industrial planetary gearbox, harmonic reducer, helical-hypoid gearbox, worm gearbox, servo motor, servo drive and other products. It is widely used in humanoid robots, solar photovoltaics, new energy power, 3C electronics, iron and steel metallurgy, intelligent logistics, medical equipment, aerospace and other industries. It is the terminal supplier of well-known enterprises such as Midea Kuka, Siemens Healthineers, JD.com, Han's Laser, etc.

The company has two major manufacturing bases in Wenling, Taizhou, Zhejiang Province (Binhai and Eastern New Area) and Hangzhou sales and R&D center. It has 13 invention patents, 33 utility model patents, 68 design patents, and ISO9001, ISO14001, ISO45001 and other system certifications. It has successively won many honorary credits such as national specialized and special new "little giant" enterprises, National High-tech Enterprises, National Intellectual Property Advantage Enterprises, Zhejiang provincial

enterprise technology centers, Zhejiang provincial high-tech enterprise research institutes, Zhejiang hidden champion cultivation enterprises, Zhejiang provincial manufacturing boutique enterprises, and famous brand products of China's machinery industry.

The "SKGR" brand serves more than 50 industries, with more than 500 domestic service providers, and is exported to Southeast Asia, Europe and the United States and other countries and regions.

SKGR has joined hands with Zhejiang University of Technology and other universities and research institutes to deepen industry-university-research cooperation and implement intelligent manufacturing and technological innovation. As an important member of the reducer branch of China General Machinery Association and the standard setting unit of three machine tool equipment industry groups in Wenling City, SKGR actively promotes the development of China's transmission industry. With the mission of "technology-oriented, carrying forward the industrial spirit" and adhering to the core values of "integrity and altruism, enterprising and awe-inspiring, customer achievement, one heart and one mind, innovation and development, and the pursuit of excellence", we are committed to developing and producing efficient, energy-saving and environmentally friendly transmission products, and contributing to the Chinese dream.



工业机器人
Industrial robots



自动化产业
Automation industry



流水线生产
Assembly production



数控制造
CNC manufacturing



工业冶金
Industrial metallurgy



汽车制造
Automobile manufacturing

应用领域

APPLICATION AREA

辐射多个行业，助力产业升级。

The vision radiates across multiple industries and assists in industrial upgrading.

帮助企业实现工业设备升级，
Assist enterprises in upgrading industrial equipment,

提高生产效率和产品质量。
improving production efficiency and product quality.



生产智造

PRODUCTION
INTELLIGENCE

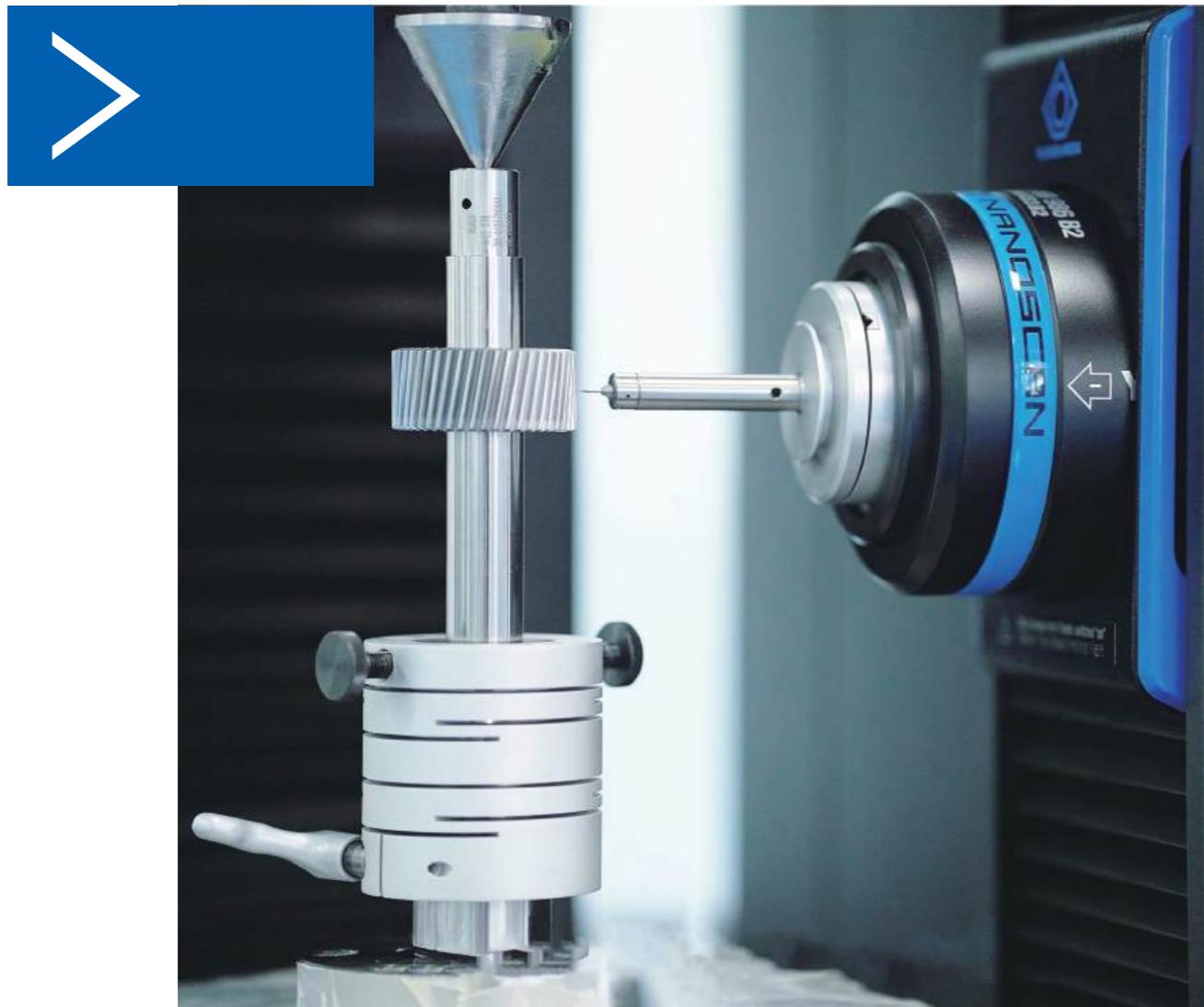
把握每个环节,力求精进完善。

Grasp Each Link And Strive For Refinement And Improvement.

严格把控原料采购,
Strictly control the procurement of raw materials,

精细管理生产流程,
Fine management of production processes,

确保产品质量安全。
Ensure product quality and safety.



精密检测

PRECISION TESTING

把关每个细节，品质源于严格。
Check Every Detail, Quality Comes From Strictness.

对产品严格质量控制、
Strict quality control of products、

高标准要求，
High standard requirements,

为客户提供安全可靠的优质产品。
Provide customers with safe and reliable high-quality products.



客户服务

CUSTOMER SERVICE

提供专业、周到的，
Provide professional, considerate,

售前、售中、售后服务，
Pre-sales, in sales, and after-sales service,

为客户创造价值。
Create value for customers.



服务每个客户，真诚收获信任。
Serve Every Customer And Sincerely Gain Trust.

三凯传动，驱动未来。

SKGR TRANSMISSION,
DRIVING THE FUTURE.

随着传动技术的持续发展和进步，
高效、环保和智能已成为工业设备升级换代的核心趋势。
未来，传动技术将驱动智能制造，推动人类文明迈向新的高度。

With the continuous development and progress of transmission technology,
Efficiency, environmental protection, and intelligence have become the core trends in the
upgrading and upgrading of industrial equipment.
In the future, transmission technology will drive intelligent manufacturing and push human
civilization to new heights.

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**SUCCESS BREEDS
SUCCESS**

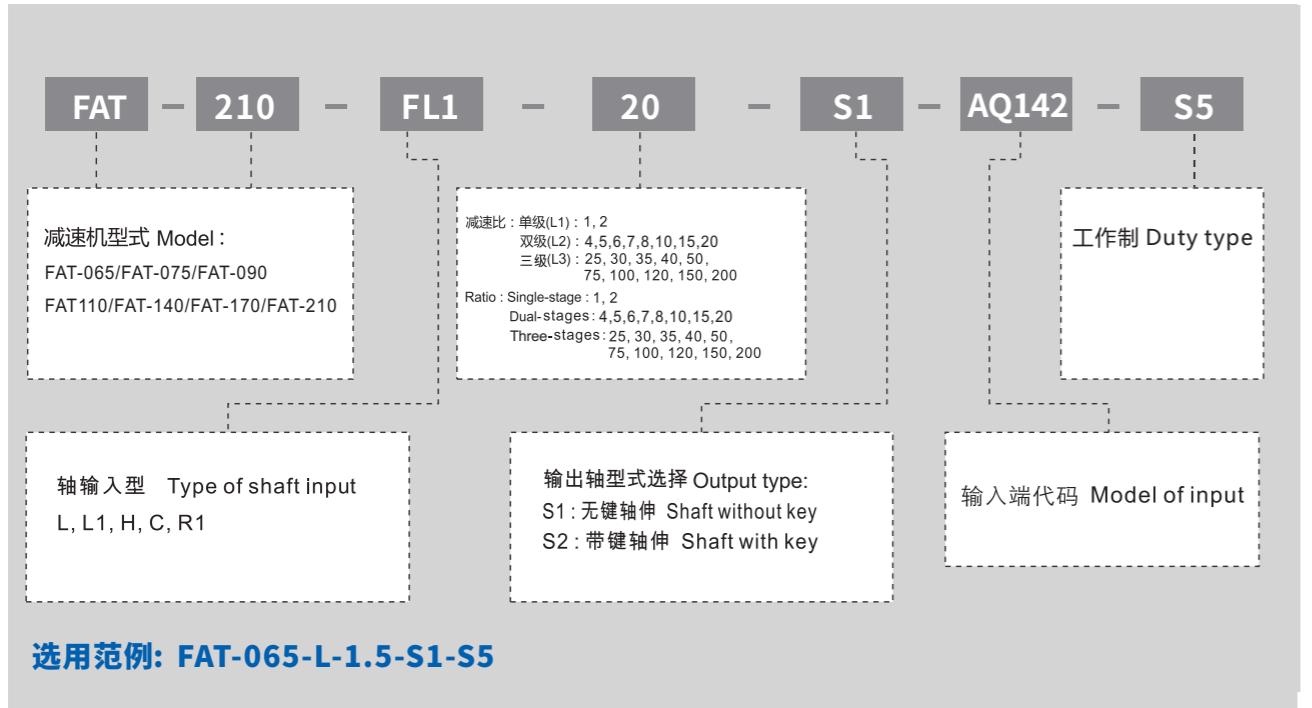
**FAT
SERIES**

PRECISION PLANETARY
GEAR BOX

精密行星减速机

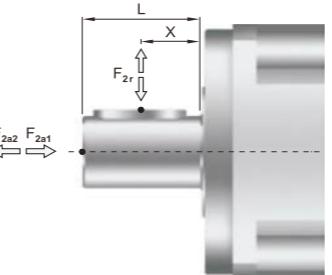
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型号说明 / model description



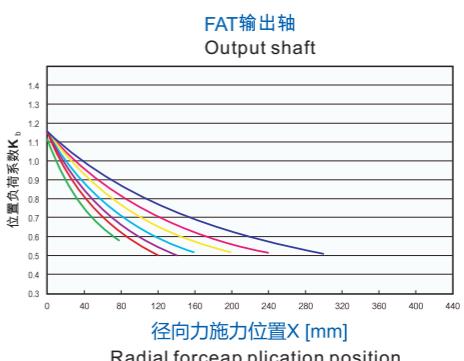
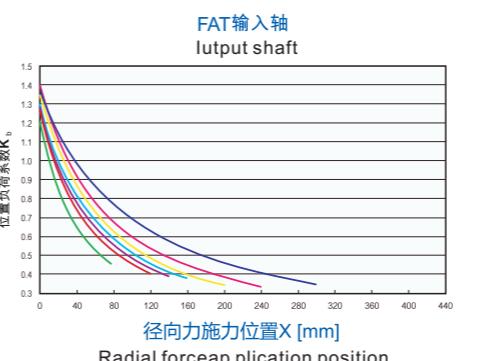
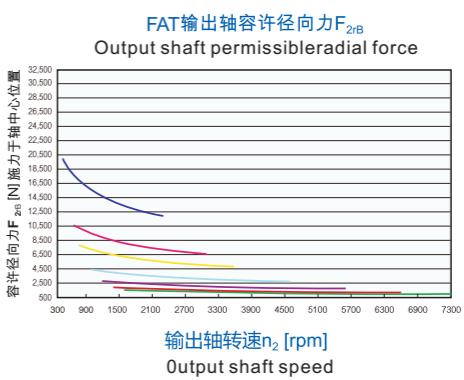
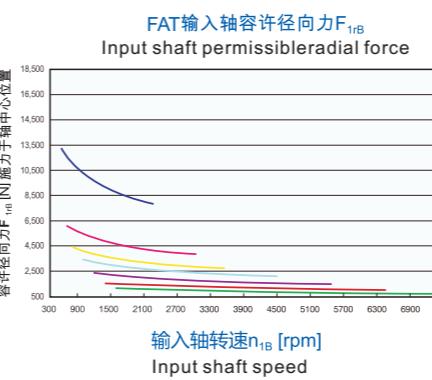
减速机输出轴之容许径向力及轴向力

ALLOWABLE RADIAL AND AXIAL FORCES ON THE OUTPUT SHAFT OF THE GEAR REDUCER

 F_{2r} 径向力 Radial force F_{2a} 轴向力 Axial force

减速器输出轴所能承受的最大径向力和轴向力，取决于内部支撑轴承的设计。采用大跨距设计，选择大承载力轴承，获得最大的径向力和轴向力承载能力。

The permitted radial and axial loads on output shaft depends on the design of the gearbox supporting bearing. Large span design and large bearing capacity are adopted, to obtain the maximum bearing capacity of radial and axial loads.



当径向力 F_2r 施力于轴中心位置即 $X=1/2xL$ 时，不同规格之减速机在不同输出转速运用下使用寿命为20,000hr*所能承受之容许径向力 F_{2rB} ，请参照左图，而能承受之容许轴向力 F_{2aB} ，为

When the radial force F_{2r} is applied to the center of the shaft, i.e. $X=1/2xL$, the allowable radial force F_{2rB} that can be withstood by different specifications of reducers with a service life of 20,000hr* under different output speeds is as follows:

$$F_{2a1B}=0.2xF_{2rB}$$

$$F_{2a2B}=0.1xF_{2rB}$$

当径向力 F_2r 施力不在轴中心位置时，越靠近减速机即 $X < 1/2xL$ ，所能承受之容许径向力变大，越远离减速机即 $X > 1/2xL$ 时，所能承受之容许径向力则变小，藉由左图，依减速机规格及径向力施力位置X，查出位置负荷系数 K_b ，在代入下列公式求出容许

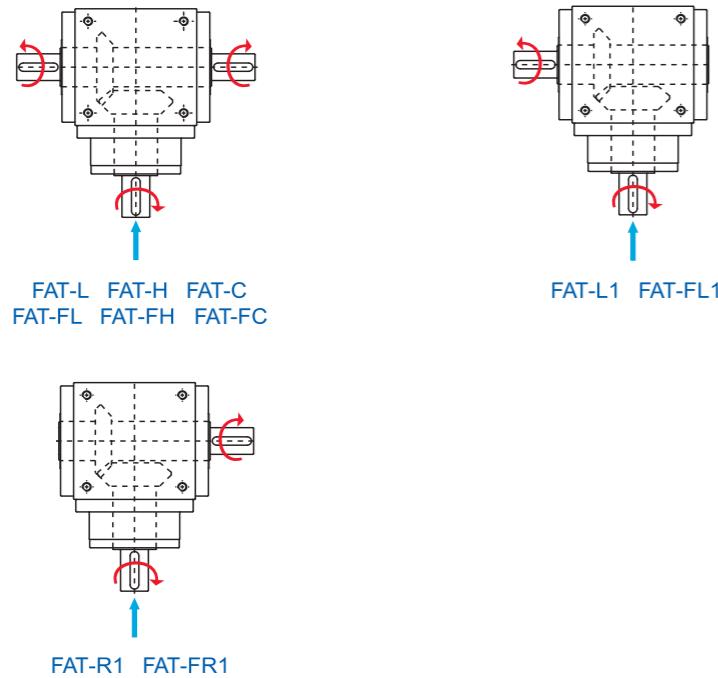
When the radial force F_{2r} is not in the center of the shaft, the closer to the gearbox, that is, $X < 1/2xL$, the allowable radial force that can be borne becomes larger, and the farther away from the reducer, i.e., $X > 1/2xL$, the allowable force that can be borne becomes smaller.

径向力 : Radial force
 $F'_{2rB}=K_bxF_{2rB}$
 轴向力 : Axial force
 $F'_{2a1B}=0.2xF'_{2rB}$
 $F'_{2a2B}=0.1xF'_{2rB}$

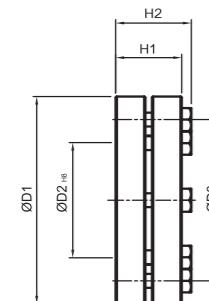
FAT系列

旋向/ rotate directions

轴输入型 Shaft input type



轴胀紧套 Shrink discs

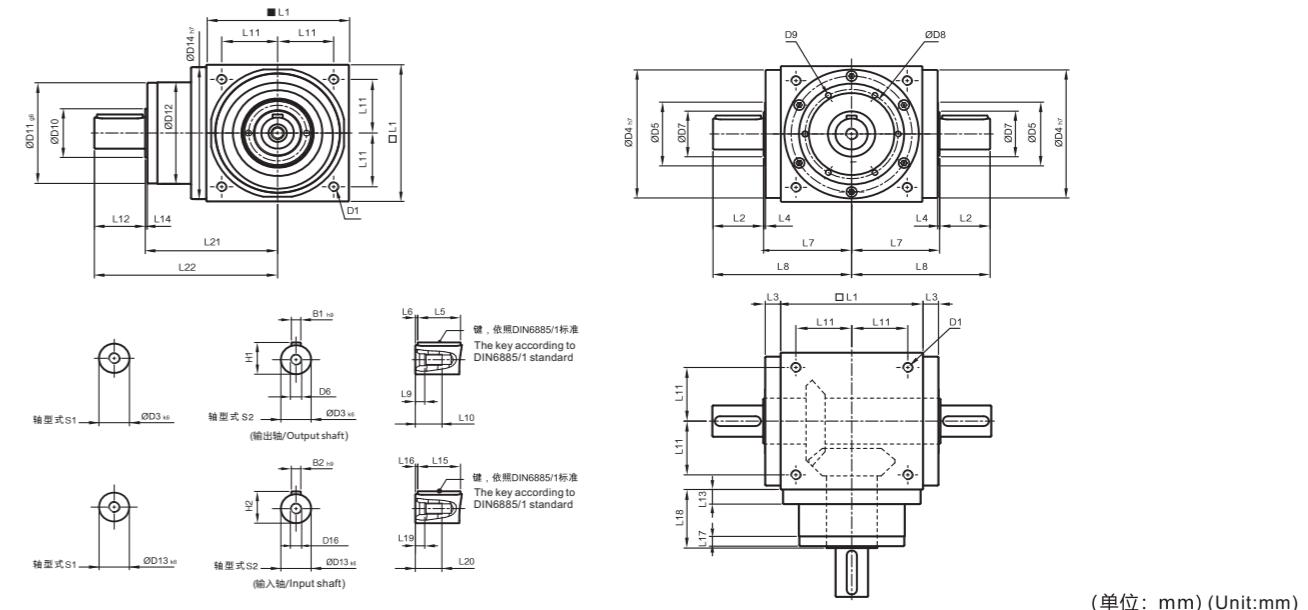


FAT..C FAT..TC	D1	D2	D3	H1	H2
SSD-d16xdw14	41	16	26	15	18.5
SSD-d22xdw18	50	22	36	19.5	23
SSD-d25xdw22	50	25	38	19.5	23
SSD-d44xdw32	80	44	61	25.5	29.5
SSD-d50xdw40	90	50	70	27.5	31.5
SSD-d62xdw50	110	62	86	30.5	34.5
SSD-d68xdw55	115	68	86	30.5	34.5
SSD-d75xdw60	138	75	100	32.5	38

FAT系列

产品尺寸 / product dimension

FAT-L, 1 stage

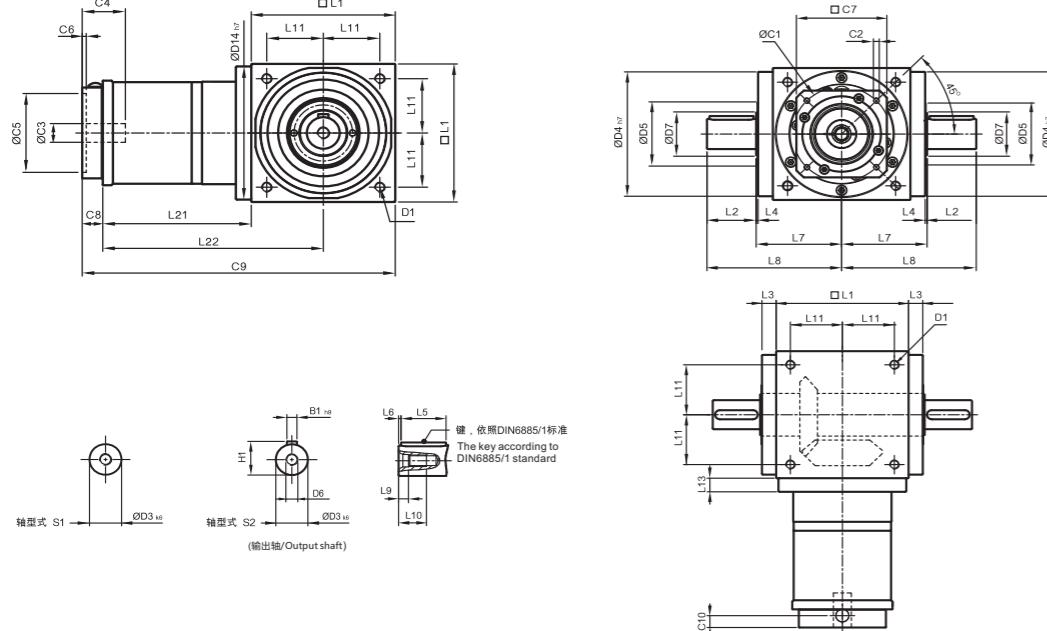


规 格 Model	FAT065 L	FAT075 L	FAT090 L	FAT110 L	FAT140 L	FAT170 L	FAT210 L
D1	M4	M6	M6	M8	M10	M12	M16
D3 k_6	13	16	18	22	32	40	50
D4 h_7	63	73	88	108	135	165	205
D5	31	35	43	53	68	83	104
D6	M4	M5	M5	M8	M12	M16	M16
D7	21	22	28	33	47	55	75
D8	53	62	76	95	92	114	142
D9	4xM4xL7	4xM5xL8	4xM5xL8	6xM6xL10	6xM6xL10	6xM8xL12.5	6xM8xL12.5
D10	15.4	20.4	25.8	35.8	49.8	59.3	79.3
D11 g_6	62.9	72.9	87	107	103	127	158
D12	62	72	86	106	104	128	160
D13 k_6	13	16	18	22	32	40	50
D14 h_7	63	73	88	108	135	165	205
D16	M4	M5	M5	M8	M12	M16	M16
L1	65	75	90	110	140	170	210
L2	19.5	30	35	40	50	60	75
L3	13	14.5	15	15	15	15	20
L4	2	2	2	2	2	2	2
L5	16	25	28	32	45	50	70
L6	2	2.5	3.5	4	2.5	5	2.5
L7	47.5	54	62	72	87	102	127
L8	67	84	97	112	137	162	202
L9	4.5	4.8	4.8	7.2	10	12	12
L10	10	12.5	12.5	19	28	36	36
L11	27	30	36	44	55	67	85
L12	19.5	30	35	40	50	60	75
L13	13	15	15	15	15	15	20
L14	2	2	2	2	2	2	2
L15	16	25	28	32	45	50	70
L16	2	2.5	3.5	4	2.5	5	2.5
L17	6	8	8	8	10	10	10
L18	43	52.5	55	60	60	70	90
L19	4.5	4.8	4.8	7.2	10	12	12
L20	10	12.5	12.5	19	28	36	36
L21	75.5	90	100	115	130	155	195
L22	95	120	135	155	180	215	270
B1 h_9	5	5	6	6	10	12	14
B2 h_9	5	5	6	6	10	12	14
H1	15	18	20.5	24.5	35	43	53.5
H2	15	18	20.5	24.5	35	43	53.5

FAT系列

产品尺寸 / product dimension

FAT-FL, 2 stages



(单位: mm) (Unit:mm)

规 格 Model	PT065 FL	PT075 FL	PT090 FL	PT110 FL	PT140 FL	PT170 FL	PT210 FL
D1	M4	M6	M6	M8	M10	M12	M16
D3 $\text{k}6$	13	16	18	22	32	40	50
D4 $\text{h}7$	63	73	88	108	135	165	205
D5	31	35	43	53	68	83	104
D6	M4	M5	M5	M8	M12	M16	M16
D7	21	22	28	33	47	55	75
D14 $\text{h}7$	63	73	88	108	135	165	205
L1	65	75	90	110	140	170	210
L2	19.5	30	35	40	50	60	75
L3	13	14.5	15	15	15	15	20
L4	2	2	2	2	2	2	2
L5	16	25	28	32	45	50	70
L6	2	2.5	3.5	4	2.5	5	2.5
L7	47.5	54	62	72	87	102	127
L8	67	84	97	112	137	162	202
L9	4.5	4.8	4.8	7.2	10	12	12
L10	10	12.5	12.5	19	28	36	36
L11	27	30	36	44	55	67	85
L13	13	15	15	15	15	15	20
L21	75	84.5	99	122	144.5	157.5	206.5
L22	107.5	122	144	177	214.5	242.5	311.5
C1	46	46	70	100	100	100	130
C2	M4	M4	M5	M6	M6	M6	M8
C3	≤ 12	≤ 12	≤ 16	≤ 24	≤ 24	≤ 24	≤ 32
C4	30	30	34	40	40	40	50
C5	30	30	50	80	80	80	110
C6	3.5	3.5	8	4	4	4	5
C7	42	42	60	92	92	92	115
C8	21.5	21.5	21.5	20	20	20	24
C9	161.5	181	210.5	252	304.5	347.5	440.5
C10	14.5	14.5	15.5	13	13	13	16
B1 $\text{h}9$	5	5	6	6	10	12	14
H1	15	18	20.5	24.5	35	43	53.5

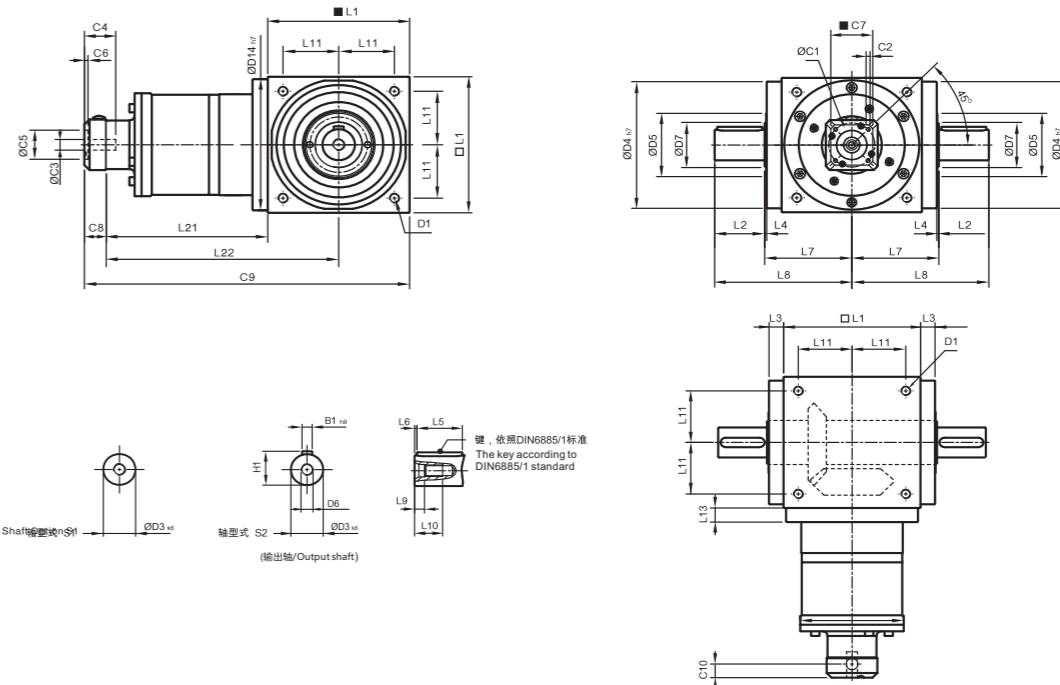
减速器的部分尺寸参考了ISO9409的标准。
如需更详细的资料，或设计特殊的尺寸请与三凯联系。

Some dimensions of gearbox refer to ISO9409 standard.
For more detailed information, or special sizes, please contact SKGR.

FAT系列

产品尺寸 / product dimension

FAT-FL, 3 stages



(单位: mm) (Unit:mm)

规 格 Model	FAT110 FL	FAT140 FL	FAT170 FL	FAT210 FL
D1	M8	M10	M12	M16
D3 $\text{k}6$	22	32	40	50
D4 $\text{h}7$	108	135	165	205
D5	53	68	83	104
D6	M8	M12	M16	M16
D7	33	47	55	75
D14 $\text{h}7$	108	135	165	205
L1	110	140	170	210
L2	40	50	60	75
L3	15	15	15	20
L4	2	2	2	2
L5	32	45	50	70
L6	4	2.5	5	2.5
L7	72	87	102	127
L8	112	137	162	202
L9	7.2	10	12	12
L10	19	28	36	36
L11	44	55	67	85
L13	15	15	15	20
L21	136.5	159.5	183.5	226
L22	191.5	229.5	268.5	331
C1	46	46	70	70
C2	M4	M4	M5	M5
C3	≤ 12	≤ 12	≤ 16	≤ 16
C4	30	30	34	34
C5	30	30	50	50
C6	3.5	3.5	8	8
C7	42	42	60	60
C8	21.5	21.5	21.5	21.5
C9	268	321	375	457.5
C10	14.5	14.5	15.5	15.5
B1 $\text{h}9$	6	10	12	14
H1	24.5	35	43	53.5

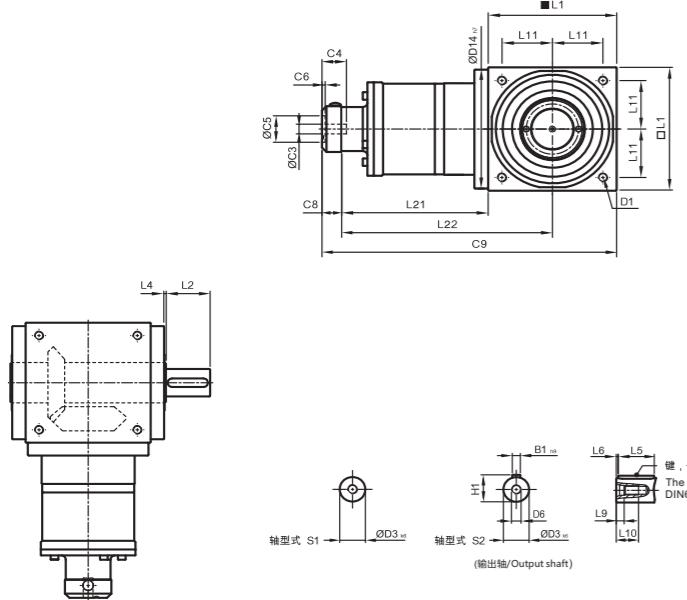
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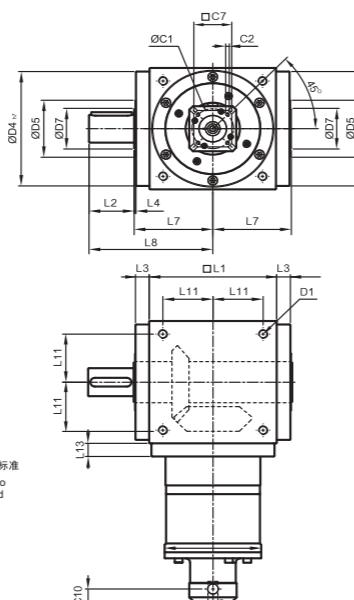
FAT系列

产品尺寸 / product dimension

FAT-FR1, 3 stages



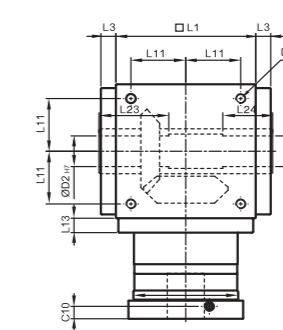
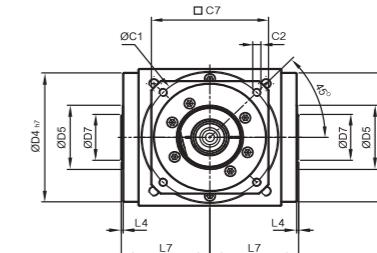
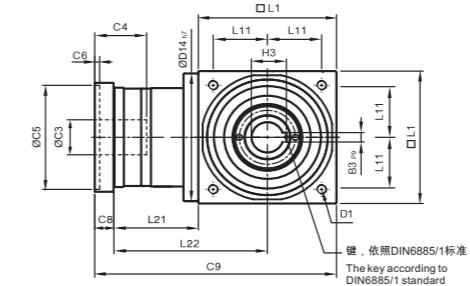
FAT-FL1, 3 stages



FAT系列

产品尺寸 / product dimension

FAT-FH, 1 stage



(单位: mm) (Unit:mm)

规 格 Model	FAT110 FL1/FR1	FAT140 FL1/FR1	FAT170 FL1/FR1	FAT210 FL1/FR1
D1	M8	M10	M12	M16
D3 k_6	22	32	40	50
D4 h_7	108	135	165	205
D5	53	68	83	104
D6	M8	M12	M16	M16
D7	33	47	55	75
D14 h_7	108	135	165	205
L1	110	140	170	210
L2	40	50	60	75
L3	15	15	15	20
L4	2	2	2	2
L5	32	45	50	70
L6	4	2.5	5	2.5
L7	72	87	102	127
L8	112	137	162	202
L9	7.2	10	12	12
L10	19	28	36	36
L11	44	55	67	85
L13	15	15	15	20
L21	136.5	159.5	183.5	226
L22	191.5	229.5	268.5	331
C1	46	46	70	70
C2	M4	M4	M5	M5
C3	≤ 12	≤ 12	≤ 16	≤ 16
C4	30	30	34	34
C5	30	30	50	50
C6	3.5	3.5	8	8
C7	42	42	60	60
C8	21.5	21.5	21.5	21.5
C9	268	321	375	457.5
C10	14.5	14.5	15.5	15.5
B1 h_9	6	10	12	14
H1	24.5	35	43	53.5

减速器的部分尺寸参考了ISO9409的标准。
如需详细的资料，或设计特殊的尺寸请与三凯联系。

Some dimensions of gearbox refer to ISO9409 standard.
For more detailed information, or special sizes, please contact SKGR.

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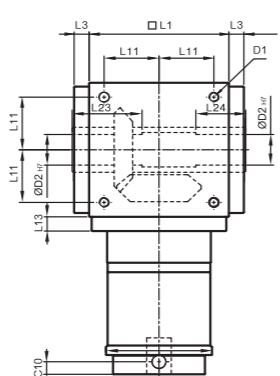
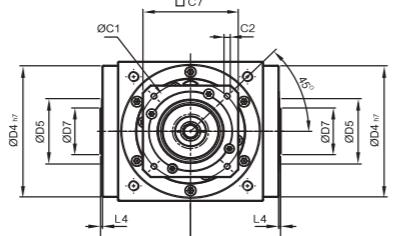
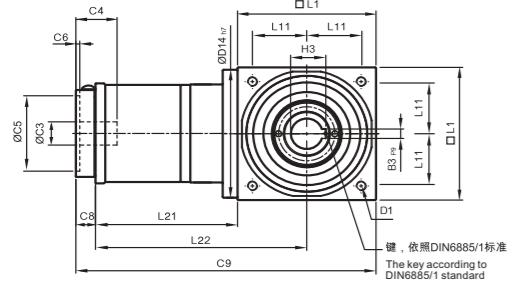
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规 格 Model	FAT065 FH	FAT075 FH	FAT090 FH	FAT110 FH	FAT140 FH	FAT170 FH	FAT210 FH
D1	M4	M6	M6	M8	M10	M12	M16
D2 h_7	13	14	18	22	32	40	50
D4 h_7	63	73	88	108	135	165	205
D5	31	35	43	53	68	83	104
D7	21	22	28	33	47	55	75
D14 h_7	63	73	88	108	135	165	205
L1	65	75	90	110	140	170	210
L3	13	14.5	15	15	15	15	20
L4	2	2	2	2	2	2	2
L7	47.5	54	62	72	87	102	127
L11	27	30	36	44	55	67	85
L13	13	15	15	15	15	15	20
L21	49	60.5	63	69.5	85.5	95	130
L22	81.5	98	108	124.5	155.5	180	235
L23	40	47	52	53	70	80	95
L24	30	32	35	35	50	55	65
C1	46	70	100	100	130	165	215
C2	M4	M5	M6	M6	M8	M10	M12
C3	$\leq 11/\leq 12$	$\leq 114/\leq 15.875/\leq 16$	≤ 19	≤ 24	≤ 32	≤ 38	≤ 42
C4	30	34	40	40	50	60	85
C5	30	50	80	80	110	130	180
C6	3.5	8	4	4	5	6	6
C7	42	60	90	90	115	142	190
C8	19.5	19	17	17	19.5	22.5	29
C9	133.5	154.5	170	196.5	245	287.5	369
C10	13.25	13.5	10.75	10.75	13	15	20.75
B3 P_9	5	5	6	6	10	12	14
H3	15.3	16.3	20.8	24.8	35.3	43.3	53.8

FAT系列

产品尺寸 / product dimension

FAT-FH, 2 stages



(单位: mm) (Unit:mm)

规 格 Model	FAT065 FH	FAT075 FH	FAT090 FH	FAT110 FH	FAT140 FH	FAT170 FH	FAT210 FH
D1	M4	M6	M6	M8	M10	M12	M16
D2 h7	13	14	18	22	32	40	50
D4 h7	63	73	88	108	135	165	205
D5	31	35	43	53	68	83	104
D7	21	22	28	33	47	55	75
D14 h7	63	73	88	108	135	165	205
L1	65	75	90	110	140	170	210
L3	13	14.5	15	15	15	15	20
L4	2	2	2	2	2	2	2
L7	47.5	54	62	72	87	102	127
L11	27	30	36	44	55	67	85
L13	13	15	15	15	15	15	20
L21	75	84.5	99	122	144.5	157.5	206.5
L22	107.5	122	144	177	214.5	242.5	311.5
L23	40	47	52	53	70	80	95
L24	30	32	35	35	50	55	65
C1	46	46	70	100	100	100	130
C2	M4	M4	M5	M6	M6	M6	M8
C3	≤12	≤12	≤16	≤24	≤24	≤24	≤32
C4	30	30	34	40	40	40	50
C5	30	30	50	80	80	80	110
C6	3.5	3.5	8	4	4	4	5
C7	42	42	60	92	92	92	115
C8	21.5	21.5	21.5	20	20	20	24
C9	161.5	181	210.5	252	304.5	347.5	440.5
C10	14.5	14.5	15.5	13	13	13	16
B3 p9	5	5	6	6	10	12	14
H3	15.3	16.3	20.8	24.8	35.3	43.3	53.8

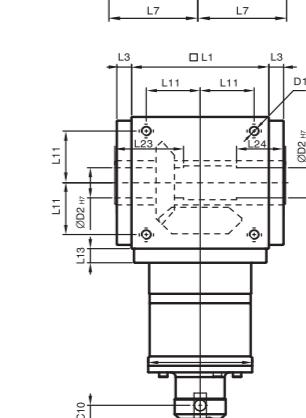
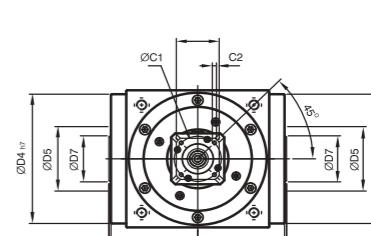
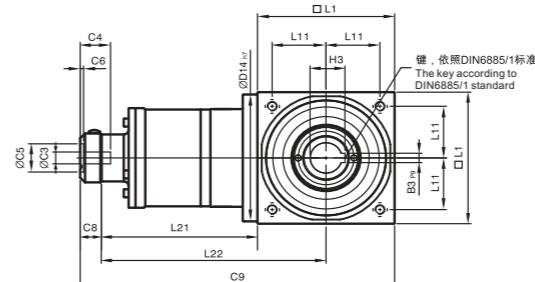
减速器的部分尺寸参考了ISO9409的标准。
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FAT系列

产品尺寸 / product dimension

FAT-FH, 3 stages



(单位: mm) (Unit:mm)

规 格 Model	FAT110 FH	FAT140 FH	FAT170 FH	FAT210 FH
D1	M8	M10	M12	M16
D2 h7	22	32	40	50
D4 h7	108	135	165	205
D5	53	68	83	104
D7	33	47	55	75
D14 h7	108	135	165	205
L1	110	140	170	210
L3	15	15	15	20
L4	2	2	2	2
L7	72	87	102	127
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C1	46	46	70	70
C2	M4	M4	M5	M5
C3	≤12	≤12	≤16	≤16
C4	30	30	34	34
C5	30	30	50	50
C6	3.5	3.5	8	8
C7	42	42	60	60
C8	21.5	21.5	21.5	21.5
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行星系列

安装说明 / INSTALLATION INSTRUCTION

1 减速机外观的确认

*请先确认减速机型号是否正确

2 伺服马达的安装

* 伺服马达的安装根据以下步骤实施

* 请使用根据订单提供的伺服电机进行安装

1. Confirm the appearance of the reducer

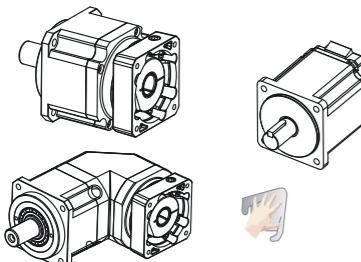
Please confirm if the reducer model is correct

2. Installation of the servo motor

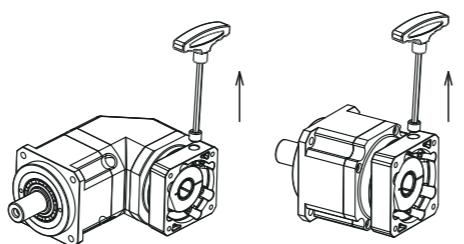
The installation of servo motor according to the following steps

Please proceed the installation of the servo motor according to the order

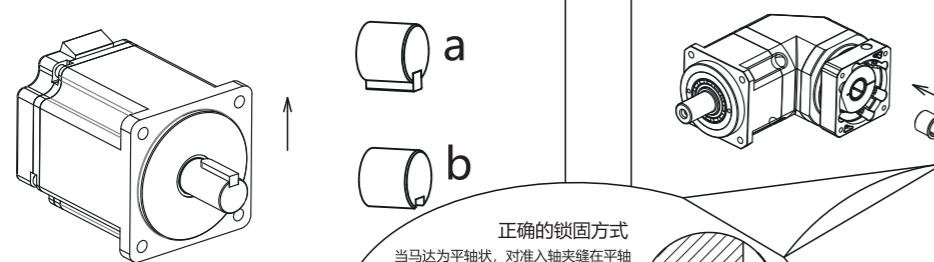
1 确认马达与减速机规格，并将马达及减速机之安装面擦拭干净。
Confirm the specifications of motor and reducer, and wipe the mounting surface of motor and reducer clean.



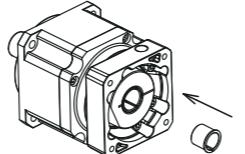
2 将入力法兰侧孔堵头螺丝取出，转动马达锁紧毂，直到锁紧毂螺丝对准法兰侧孔。
Take the plug screw out of the flange side hole, and rotate the motor locking hub until the locking hub screw is aligned with the flange side hole.



3 取下马达上原先之平键；如有必要，请安装平衡键。
Remove the original flat key from the motor; If necessary, install the balance key.

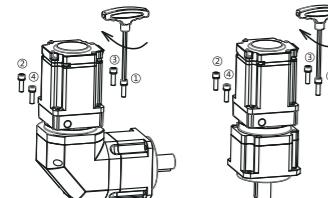


4 确认马达轴心尺寸，若有必要，装上轴套。
Confirm the axis size of the motor and install the sleeve if necessary.

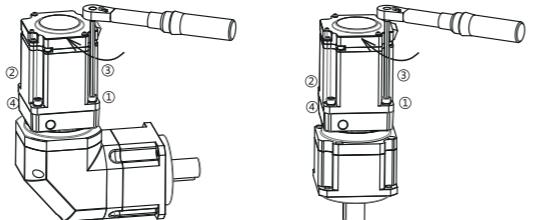


正确的锁固方式
当马达为平轴状，对准入轴夹紧在平轴中心线，使锁紧毂螺丝与平轴呈垂直。
Correct locking method
When the motor is in the shape of a flat shaft, the opposite shaft is clamped on the center line of the flat shaft, so that the locking hub screw is perpendicular to the flat shaft.

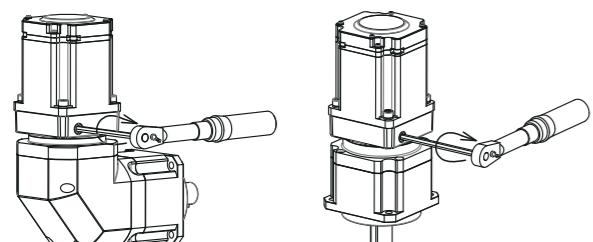
5 直立式的装入马达，以螺丝扭力表（表一）建议扭力值之5%，依1~4顺序，用扳手将附垫片之螺丝轻轻锁上。
Install the motor in a vertical position, and use a wrench to gently lock the screws with gasket according to the order of 1 ~ 4 with 5% of the recommended torque value in the screw torque table (Table 1).



6 将马达与减速机直立摆设，以螺丝扭力表（表一）建议扭力值，依1~4的顺序，用扭力扳手将螺丝锁紧。
Place the motor and reducer vertically. Lock the screws with torque wrench in the order of 1~4, according to the recommended torque value in the screw torque table (Table 1).



7 参照表二建议之扭力值，用扭力扳手将马达锁紧毂螺丝锁紧。
According to the recommended torque value in Table 2, lock the locking hub screw with torque wrench.



8 锁回法兰侧孔堵头螺丝。
Lock the flange side hole plug screw.

