

2025
SZKOMO
Company Profile
科盟创新企业介绍

Shenzhen Komo Innovation Robotics Technology Co.,Ltd.
深圳市科盟创新机器人科技有限公司

01

Company profile

公司介绍

成为全球机器人关键零部件的引领者

To become the global leader in critical robotics components

成立时间: 2024年6月成立; 注册资金1亿元人民币;

办公总部: 深圳市南山区深圳湾科技生态园11栋A座2201室;

制造中心: 江门市新会区新会智造产业园凤山湖园区106号;

技术领域: 精密谐波减速器, 机器人一体化关节, 机器人零部件、控制器等。

Establishment: Founded in June 2024; Registered capital of 100 million RMB.

HQ: Room 2201, Tower A, Building 11, Shenzhen Bay Science and Technology Ecological Park, Nanshan District, Shenzhen.

Manufacture: No. 106, Fengshanhu Park, Xinhui District, Jiangmen City, Guangdong Province, China.

Technical Expertise: Precision harmonic drives; Intelligent robotic joints; Precision components for industrial robots; Controllers and related systems; etc.



股东/Shareholder

股东方介绍/Introduction of shareholders



科达利在深圳证券交易所上市，是全球领先的动力及储能电池精密结构件产品及解决方案供应商，也是专业制造领域的全球领导者。凭借近30年的机械加工行业经验，科达利在2024年实现了超过120亿元人民币的收入和15亿元人民币的净利润。

KDL is listed on the Shenzhen Stock Exchange and is a global leader in the production of precision structural components for power and energy storage batteries, as well as a world-class expert in specialized manufacturing. With nearly 30 years of experience in the machining industry, KDL achieved revenues exceeding 12 billion RMB and a net profit of 1.5 billion RMB in 2024.



台湾盟立是一家拥有35年历史的台湾上市公司，是台湾自动化行业的领导者。专注于智能工厂发展和客户成为合作伙伴，为全球产业领袖的首选之智能化系统供货商。公司在半导体、物流和机器人核心技术方面拥有丰富的技术专长和应用经验。

Taiwan's Mirle Group is a Taiwan-listed company with 35 years of history and a leader in Taiwan's automation industry. Focusing on smart factory development and partnering with customers, it has become the preferred intelligent automation system supplier for global industry leaders. The company possesses extensive technical expertise and application experience in semiconductors, logistics, and robotics core technologies.



成立于2018年，由台湾齿轮领域的顶尖专家领导，由盟立投资。公司在机器人谐波驱动器方面的研发和制造方面处于全球领先水平，可与日本品牌harmonic Drive相媲美。

Main Drive, founded in 2018 and backed by Mirle, is led by top-tier experts from Taiwan's gear industry. The company is a global leader in the R&D and manufacturing of robotic harmonic drives, rivaling the performance of Japan's Harmonic Drive brand.

30+

精密传动的研发专家
Expert in Precision Drive Systems

30% PhD

精密传动专家
Precision Drive Specialist

80%

硕士学位或以上
MA degree or above

100%

学士学位
BA degree

全球化产业资源布局

Global industrial resource layout

科盟创新 = 科达利 (002850.SZ) × 台湾盟立 (2464.TW) × 盟英科技
整合大陆产业资源与台湾精密制造技术优势, 形成「技术+资本+市场」战略协同。

SZKOMO = KDL (002850.SZ) × Mirle (2464.TW) × Main Drive

Integrating mainland industrial resources with Taiwan's precision manufacturing expertise to achieve strategic synergy in "Technology + Capital + Market."



3 Management System

3大管理体系

2025

ISO 9001:2015 质量管理体系
ISO 9001:2015 Quality Management System

2025

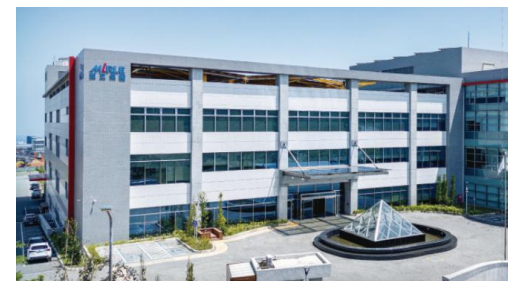
ISO 14001:2015 环境管理体系
ISO 14001:2015 Environmental Management System

2025

ISO 45001:2018 职业健康安全管理体系
ISO 45001:2018 Occupational Health and Safety Management System



**Headquarters Factory
Jiangmen**
总部工厂·江门



**Taiwan Factory
Xinzhu**
台湾工厂·新竹

▲ Assembly and Testing Area 组装测试区



Torsional Rigidity
Testing Machine
扭转刚性测试机



Efficiency Testing
Machine
效率测试机



Transmission Error
Testing Machine
传动误差测试机



Life Testing and Wear
Testing Area
寿命测试、磨损测试区

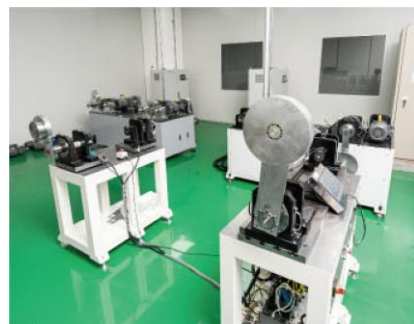
▲ Manufacturing workshop 生产制造车间



▲ Testing Equipment 测试设备



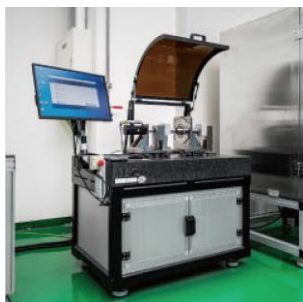
减速机综合实验机
Integrated Reducer Testing Machine



寿命测试机
Lifetime Testing Machine



启动扭力测试
Starting Torque Test



重复精度测试机
Repeatability Testing Machine



效率测试机
Efficiency Testing Machine



传动误差测试机
Transmission Error Tester



扭转刚性测试仪
Torsional Stiffness Tester

▲ Measuring Instruments 量测仪器



三次元
Three-Dimensional



齿轮量测仪
Gear Side-Measuring Instrument

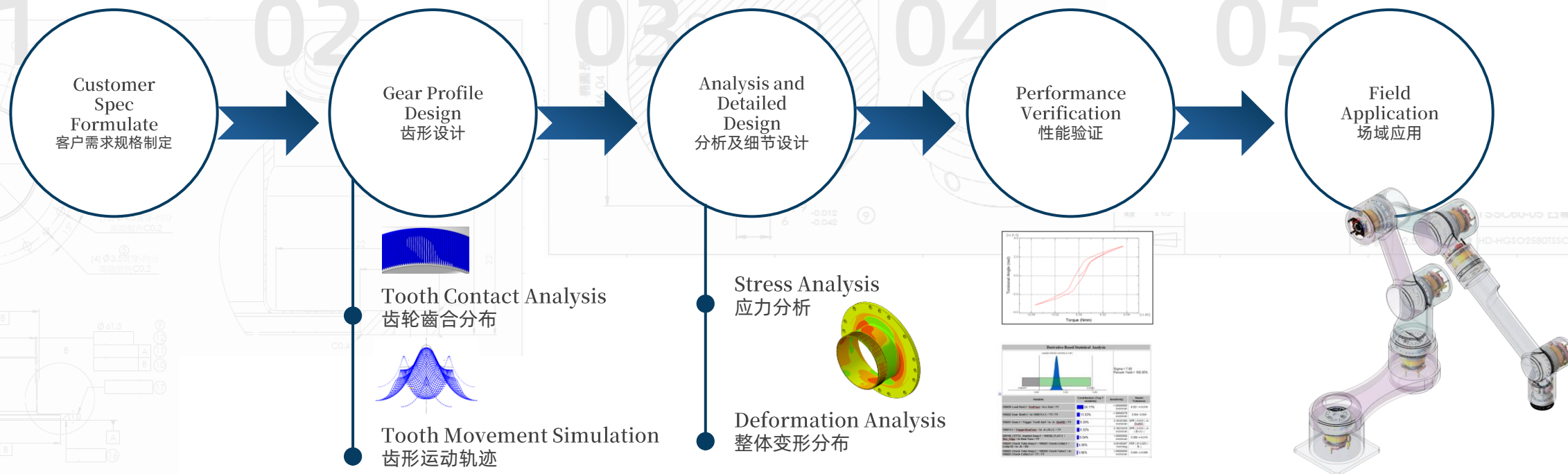


影响光学量测仪
Affect Optical Gauges

Fully independent design technology and core process technologies.

完全自主的设计技术、工艺核心技术

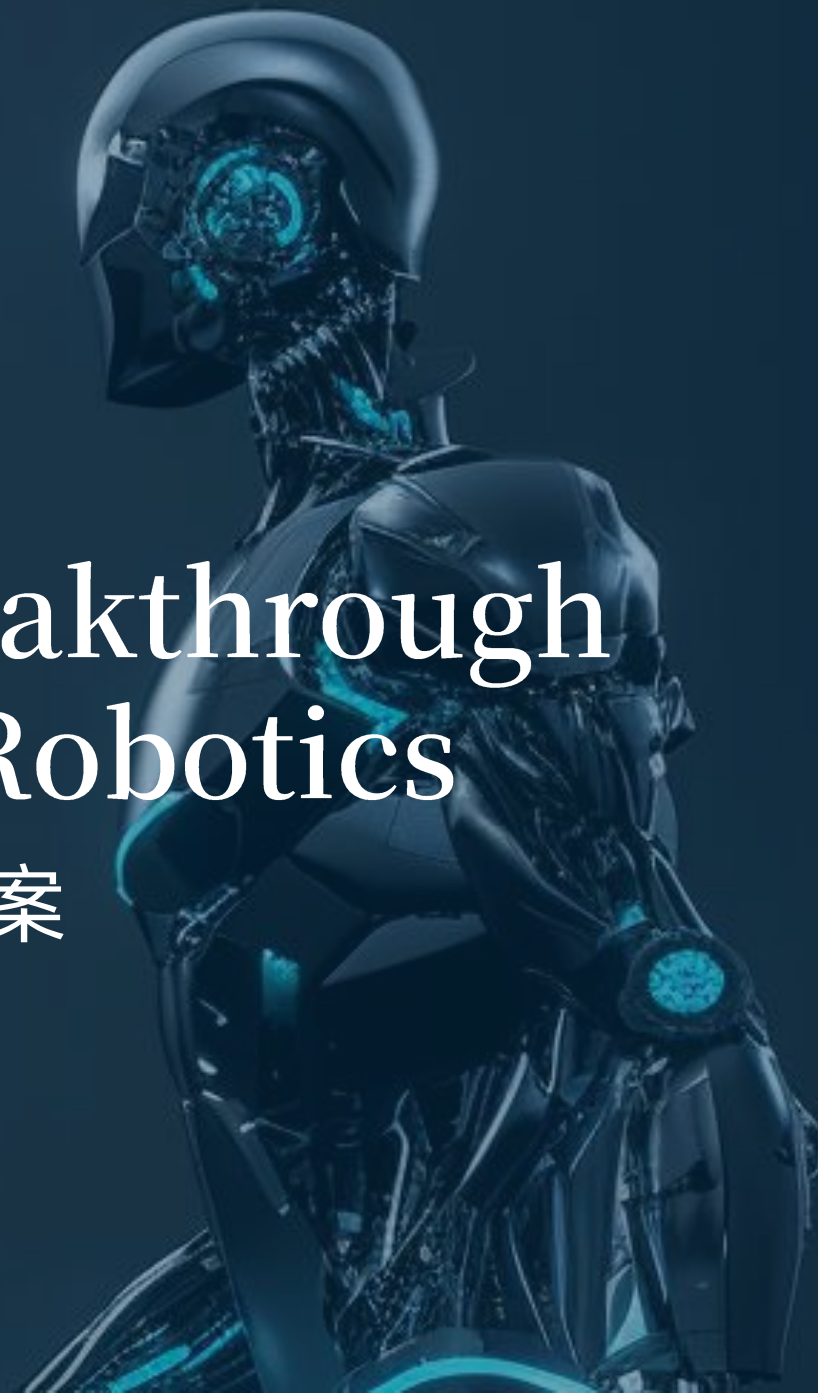
▲ Customized Reducer Development Capability 客制化减速机开发能力



02

Innovative Breakthrough in Humanoid Robotics

创新人形机器人解决方案

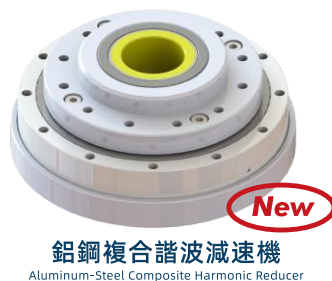


全新人形机器人核心传动产品

New humanoid robot core drive products

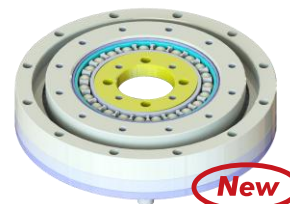
轻量化 | 结构紧凑 | 扭矩/重量比提升 | 高精度 & 高负载稳定性

Lightweighting | Compact size | Torque/weight ratio increase | High accuracy & high load stability



肩 Shoulder

颈 Neck



PEEK複合材料輕量化諧波減速機
PEEK Composite Materials Light Weight Harmonic Reducer

肘 Elbow

腕 Wrist



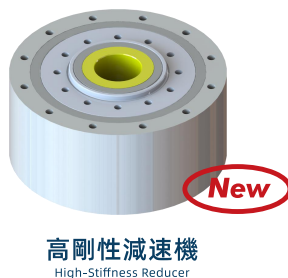
薄型馬達關節模組
High-Stiffness Speed Reducer

腰 Waist

膝 Knee

踝 Ankle

髋 Hip



PEEK複合材料輕量化擺線減速機
PEEK Composite Materials Light Weight Cycloidal Reducer

运用铝钢复合材质，将谐波刚轮、柔轮及轴承紧凑设计，并不影响到结构钢性下配置减重孔洞，大幅降低减速机重量。

The use of aluminum-steel composite material, the harmonic rigid wheel, flexible wheel and bearing are compactly designed, and the weight reduction holes are configured without affecting the structural rigidity, which greatly reduces the weight of the reducer.

轻而坚实

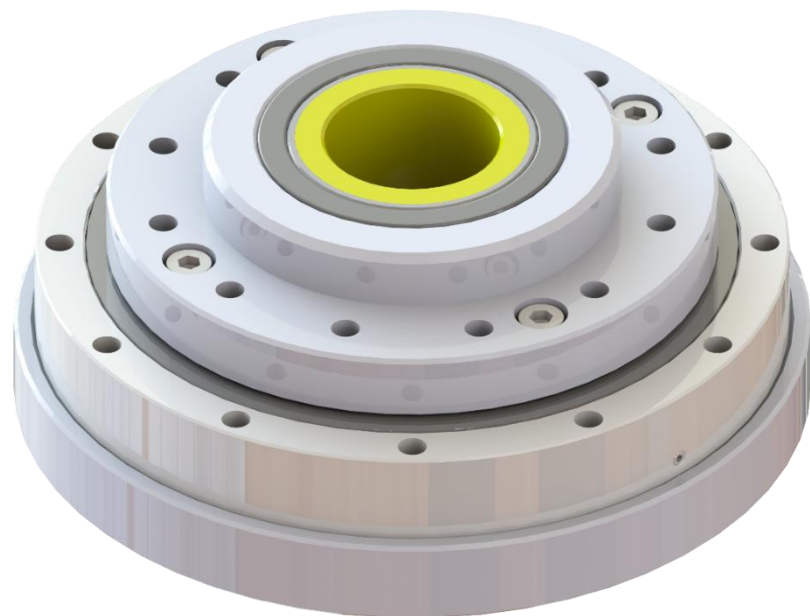
Robust Lightweight

33%↓

更轻
Lighter

50%↑

扭矩/重量比
Torque/Weight Ratio



Type #17

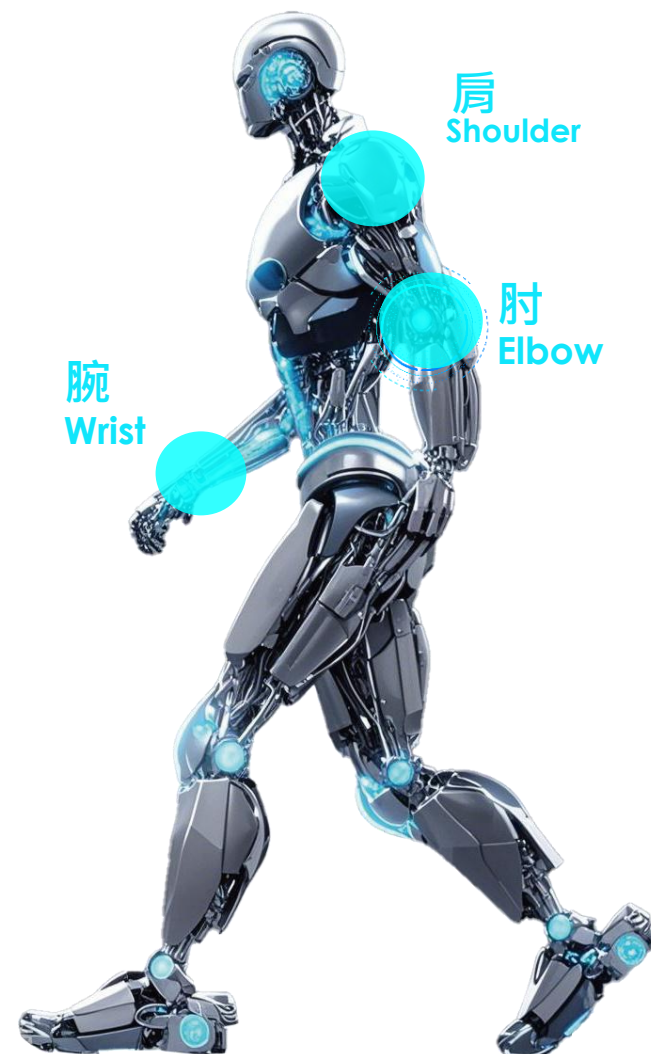
Before

0.81kg



After

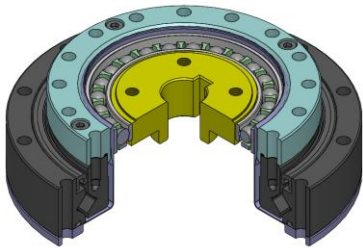
0.54kg



规格	单位	标准谐波减速机	铝钢复合谐波减速机
尺寸	mm	Ø90x33.5	Ø90x33.5
齿比	/	100	100
最大输入速度	rpm	6500	6500
最大扭矩	Nm	107	107 (100%)
扭转刚性	Nm/arcmin	8.4	8.4 (100%)
重量	kg	0.81	0.54 (67%)
扭力重量比	/	132	198 (150%)

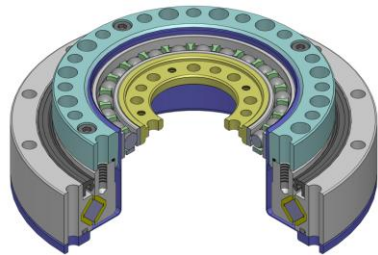
标准谐波减速机

Standard harmonic reducer

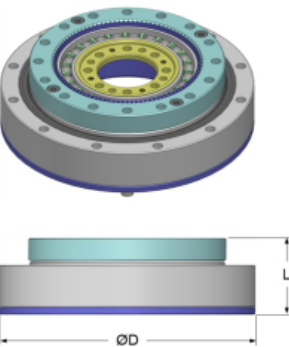


铝钢复合谐波减速机

Aluminum-Steel Composite Harmonic Reducer



Specification 规格

 SZKOMO 科盟创新	系列	型号	减速比	尺寸 ($\varnothing D \times L$)	重量	额定转矩 @2000rpm	容许启停 峰值扭矩	容许平均 峰值扭矩	瞬间容许 最大转矩	容许最大 输入转速	容许平均 输入转速	容许弯曲转矩
	Unit			mm	kg	N.m	N.m	N.m	N.m	r/min	r/min	N.m
铝钢复合减速机 	HGSO-LW	11	50	$\varnothing 62 \times 19.5$	0.2	3.5	8.3	5.5	17	8500	3500	23
			100			5	11	8.9	25			
		14	50	$\varnothing 70 \times 23.5$	0.26	7	23	9	46	8500	3500	23
			80			10	30	14	61			
			100			10	36	14	70			
		17	50	$\varnothing 80 \times 26.5$	0.35	21	44	34	91	7300	3500	64
			80			29	56	35	113			
			100			31	70	51	143			
			120			31	70	51	112			
		20	50	$\varnothing 90 \times 29$	0.53	33	73	44	127	6500	3500	74
			80			44	96	61	165			
			100			52	107	64	191			
			120			52	113	64	191			
			160			52	120	64	191			
		25	50	$\varnothing 110 \times 34$	0.83	51	127	72	242	5600	3500	91
			80			82	178	113	332			
			100			87	204	140	369			
			120			87	217	140	395			
			160			87	229	140	408			
		32	50	$\varnothing 142 \times 42$	1.97	99	281	140	497	4800	3500	124
			80			153	395	217	738			
			100			178	433	281	841			
			120			178	459	281	892			
			160			178	484	281	892			

*本系列皆可改为PEEK轻量化构型

使用短帽型谐波减速机、刚轮与交叉滚子轴承复合设计、并使用PEEK复合材料。创造出轻量化及薄型化谐波减速机。

The use of short cap harmonic reducer, rigid wheel and crossed roller bearing composite design, the use of PEEK composite materials. Created a lightweight and thin harmonic reducer.

极致轻薄

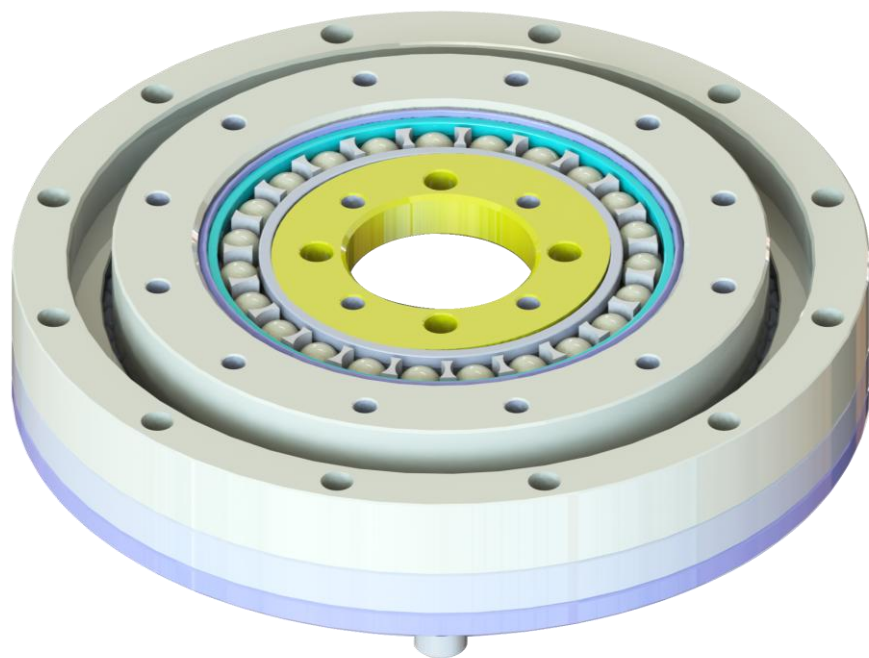
Extremely Lightweight

60%↓

更轻
Lighter

75%↑

扭矩/重量比
Torque/Weight Ratio



Before

0.52kg



After

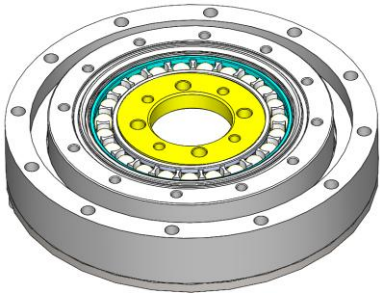
0.21kg



规格	单位	标准谐波减速机	PEEK谐波减速机
尺寸	mm	Ø90x19	Ø90x19
齿比	/	50	50
最大输入速度	rpm	3500	2000
最大扭矩	Nm	39	27 (69%)
扭转刚性	Nm/arcmin	5.8	5.1 (88%)
重量	kg	0.52	0.21 (40%)
扭力重量比	/	75	131 (175%)

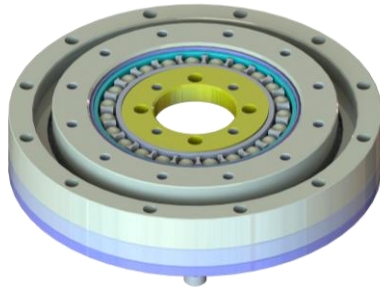
标准谐波减速机

Standard harmonic reducer



PEEK复合材料轻量化谐波减速机

PEEK Composite Materials Light Weight Harmonic Reducer

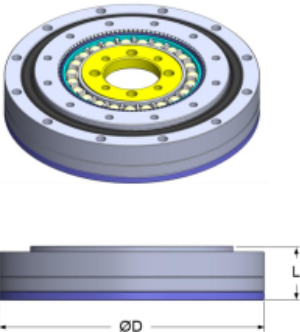


Standard Harmonic Reducer

材料特性比较

	拉伸强度	密度
钢	>650 Mpa	7.8 g/cm ³
铝	310 Mpa	2.7 g/cm ³
PEEK复合材料	270 Mpa	1.41 g/cm ³
PEEK	100 Mpa	1.3 g/cm ³

Specification 规格

SZKOMO 科盟创新	系列	型号	减速比	尺寸 (ØD x L)	重量	额定转矩 @2000rpm	容许启停 峰值转矩	容许平均 峰值转矩	瞬间容许 最大转矩	容许最大 输入转速	容许平均 输入转速	容许弯曲转矩
	Unit			mm	kg	N.m	N.m	N.m	N.m	r/min	r/min	N.m
PEEK 谐波减速机 	HDSH- ULW	14	50	Ø70 x17.5	0.13	3	8	3	17	4200	1750	3.7
			80			4	11	5	22			
			100			4	13	5	25.6			
		17	50	Ø80 x18.5	0.17	8	16	12	33	3600	1750	6.2
			80			10	21	13	41			
			100			11	26	19	52			
			120			11	26	19	41			
		20	50	Ø90 x 19	0.21	12	27	16	46	3200	1750	9.3
			80			17	35	22	60			
			100			19	39	23	70			
			120			19	41	23	70			
		25	50	Ø110 x 22	0.36	19	46	26	89	2800	1750	12.9
			80			30	65	41	121			
			100			32	75	51	135			
			120			32	79	51	144			
		32	50	Ø142 x 27.9	0.74	36	103	51	182	2400	1750	29
			80			56	144	79	270			
			100			65	158	103	308			
			120			65	168	103	326			

PEEK复合材料轻量化摆线减速机

PEEK Composite Materials Light Weight Cycloidal Reducer

PEEK复合材料主体结构，解决谐波减速机不耐冲击。小模数、多齿数、高减速比设计，谐波齿轮技术的延伸。

The main structure of PEEK composite material solves the impact resistance of the harmonic reducer. Small modulus, multi-tooth number, high reduction ratio design, extension of harmonic gear technology.

抗冲击性

Impact Resistance

比标准谐波
vs. Standard Harmonics

23%↓

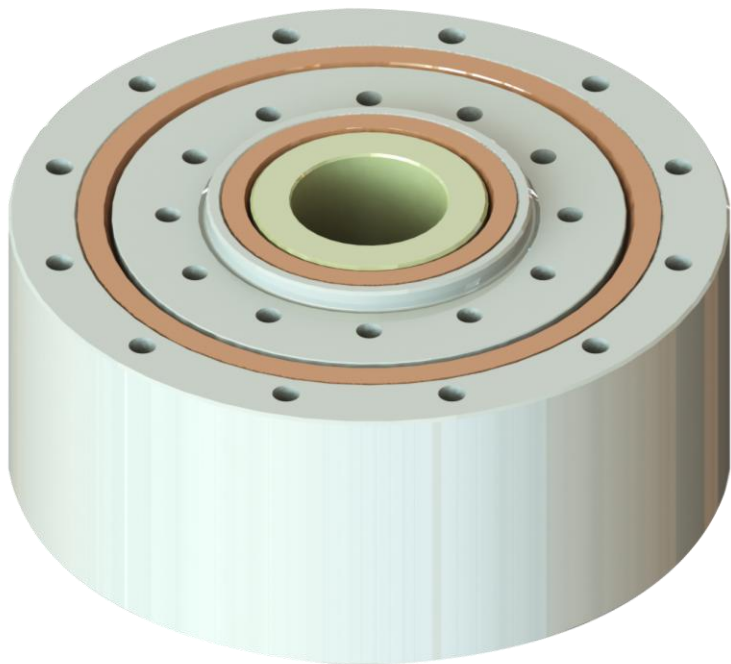
更轻
Lighter

60%↑

扭矩/重量比
Torque/Weight Ratio

1.6倍

比谐波刚性强
It is more rigid than harmonics



Type #2580

Before

2.1kg



After

1.62kg



延伸小模数、多齿数谐波齿轮技术，以**多个外齿盘取代柔轮**，**使负载均匀，简化构造**，但可使承载能力大幅提升。

Extending the small modulus, multi-tooth harmonic gear technology, **replacing the flexible wheel with multiple external tooth discs**, so that the load **is uniform, the structure is simplified**, but the bearing capacity can be greatly improved.

优化刚性

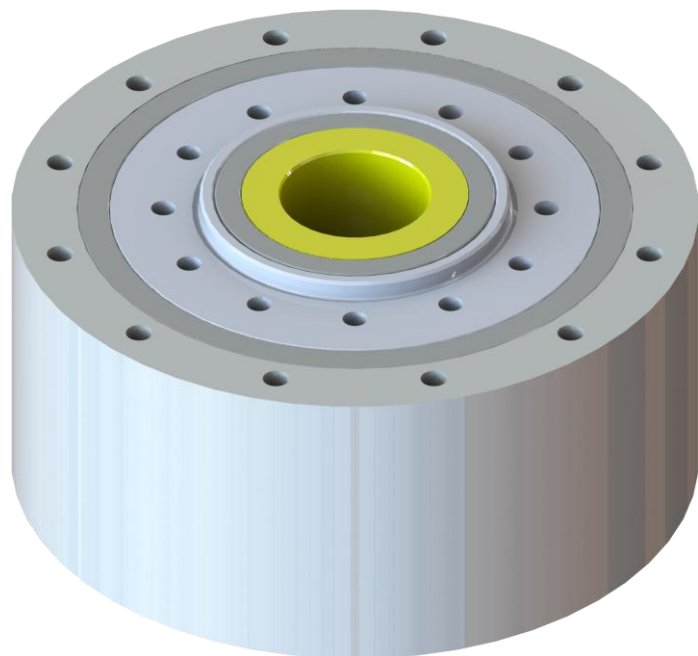
Rigidity optimization

42%↑

扭矩/重量比
Torque/Weight Ratio

2.5倍

比谐波刚性强
Higher rigidity than harmonic drives



Before

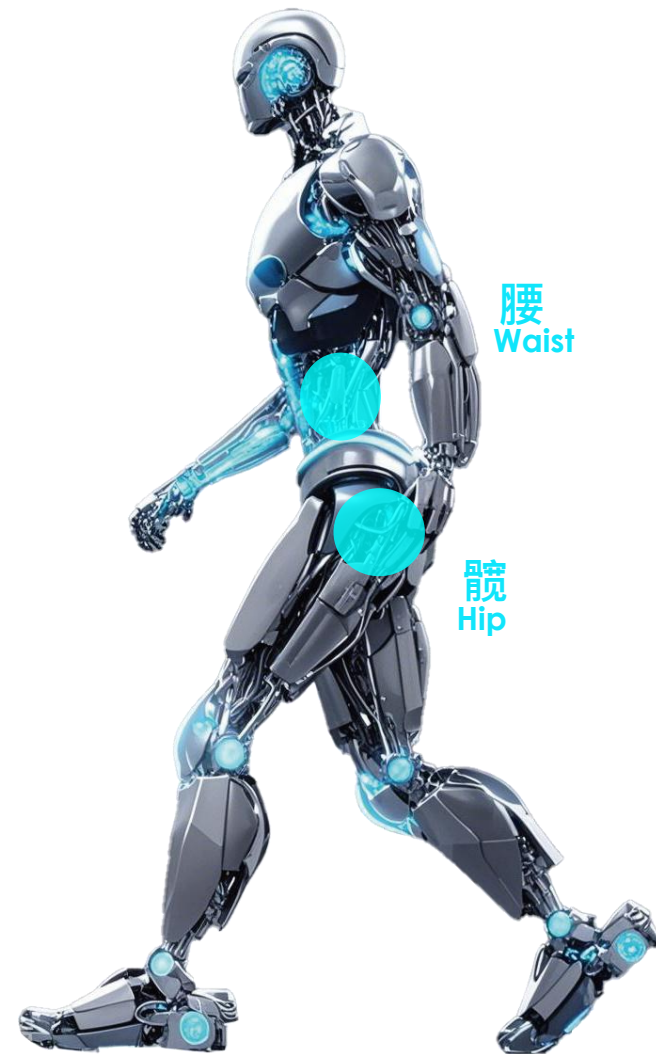


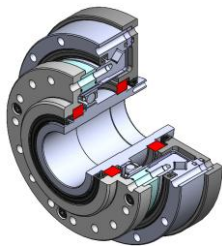
Stiffness
16.6
Nm/arcmin

After

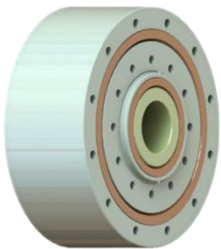


Stiffness
42
Nm/arcmin

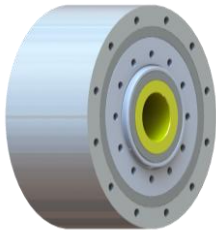




标准谐波减速机
Standard harmonic reducer

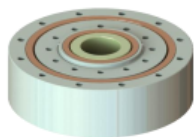


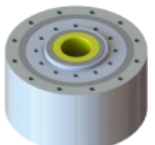
PEEK 摆线减速机
PEEK cycloidal reducer



高刚性减速机
High Stiffness Reducer

规格	单位	标准谐波减速机	PEEK摆线减速机	高刚性减速机
尺寸	mm	Ø115x55.5	Ø115x55.5	Ø115x59.5
齿比	/	80	80	100
最大输入速度	rpm	5600	4000	4000
最大扭矩	Nm	178	220 (169%)	400 (253%)
扭转刚性	Nm/arc min	16.6	28 (124%)	42 (225%)
重量	kg	2.1	1.62 (77%)	3.3 (157%)
扭力重量比	/	85	136 (160%)	121 (142%)

 SZKOMO 科盟创新	系列	型号	减速比	尺寸 (ØD x L)	重量	额定转矩 @2000rpm	容许启停 峰值转矩	容许平均 峰值转矩	瞬间容许 最大转矩	容许最大 输入转速	容许平均 输入转速	容许弯曲转矩
	Unit			mm	kg	N.m	N.m	N.m	N.m	r/min	r/min	N.m
PEEK 摆线减速机 	CRUH-LW	20	50	Ø95 x 51.5	0.97	41	90	54	157	3200	1750	64
			80			54	120	75	204			
			100			64	132	80	236			
		25	50	Ø115 x 55.5	1.62	63	157	90	300	2800	1750	90
			80			100	220	140	410			
			100			108	252	173	456			
		32	50	Ø147 x 65.5	3.2	122	347	173	614	2400	1750	110
			80			190	488	268	912			
			100			220	535	347	1040			

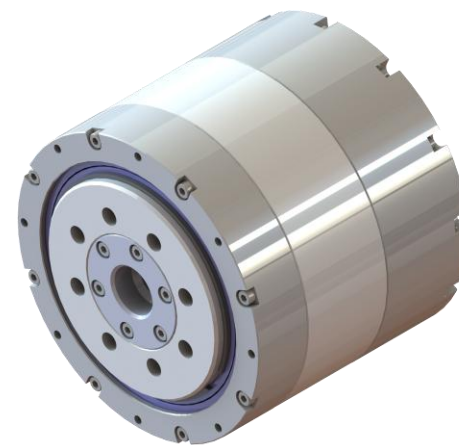
 SZKOMO 科盟创新	系列	型号	减速比	尺寸 (ØD x L)	重量	额定转矩 @2000rpm	容许启停 峰值转矩	容许平均 峰值转矩	瞬间容许 最大转矩	容许最大 输入转速	容许平均 输入转速	容许弯曲转矩
	Unit			mm	kg	N.m	N.m	N.m	N.m	r/min	r/min	N.m
渐开线少齿差减速机 	SDUH	20	50	Ø95 x 55	2.2	65	143	86	250	3200	1750	187
			80			86	188	120	325			
			100			102	210	125	375			
		25	50	Ø115 x 59.5	3.34	100	250	140	475	2800	1750	258
			80			161	350	222	650			
			100			171	400	275	725			
		32	50	Ø147 x 70	7.2	194	550	275	975	2400	1750	580
			80			300	775	425	1450			
			100			350	850	550	1650			

Standard Type



- #14/17/20/25/32/40
- 谐波减速机
- 带煞车
- 不带力矩传感器

New Gen.



- 谐波减速机
- 轻量化
- 扭力优化
- 带力矩传感器

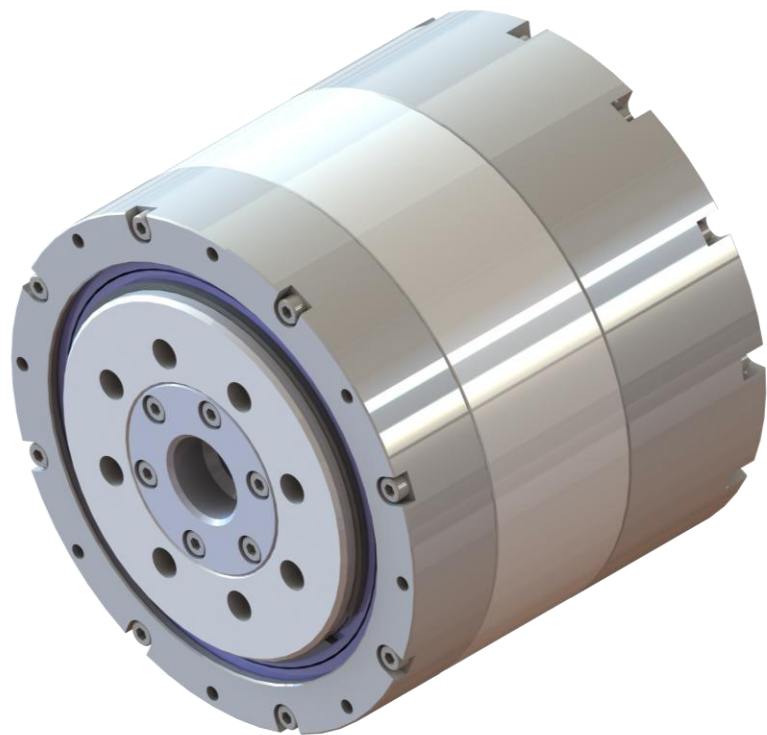
整合薄型马达与短杯型谐波减速机，壳体搭配PEEK复合材料与铝合金，达成轻量化，以及散热效果。

The thin motor and the short-cup harmonic reducer are integrated, and the shell is matched with PEEK composite material and aluminum alloy to achieve light weight and heat dissipation effect.

极小化尺寸

极大化扭矩

Minimize Size | Maximize Torque



Type #32

SZKOMO Spec.

重量 /Weight:

降低15%

Reduce 15%

尺寸/Size:

Ø 115x99 mm

峰值扭矩/Peak Torque:

提升5%

Enhance 5%

重量/Weight:

2.46 KG

传感器/Sensor:

双编码器; 扭矩传感器

Dual Encoder; Torque Sensor



Harmonic Reducer Quick Catalog

谐波减速机——快速选型录



01

Standard Harmonic Reducer

标准规格谐波减速机

02

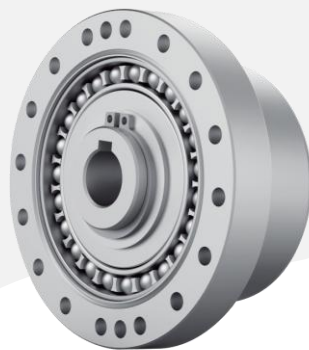
Customized short version
harmonic reducer

客制化短版谐波减速机

01

Standard Harmonic Reducer

标准规格谐波减速机



CGAA



CGUH



HGAA



HGUH



HGSH



HGSO



HGUJ

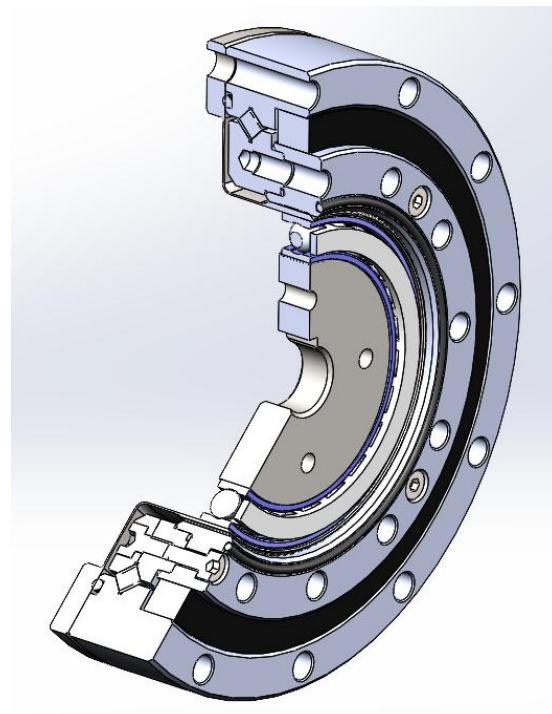
02

Customized Short Version Harmonic Reducer

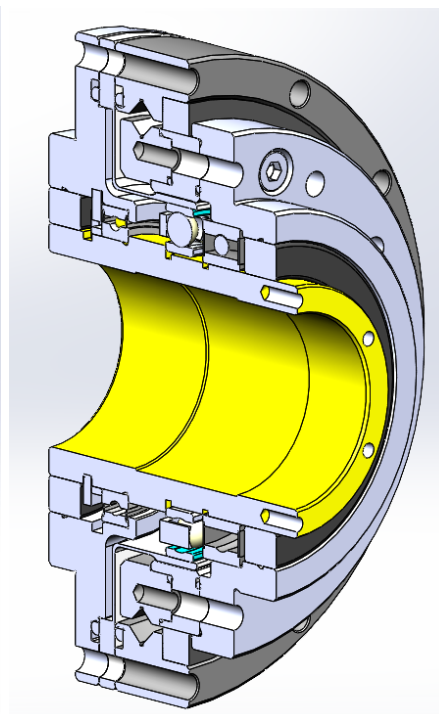
客制化短版谐波减速机

Features/产品特点:

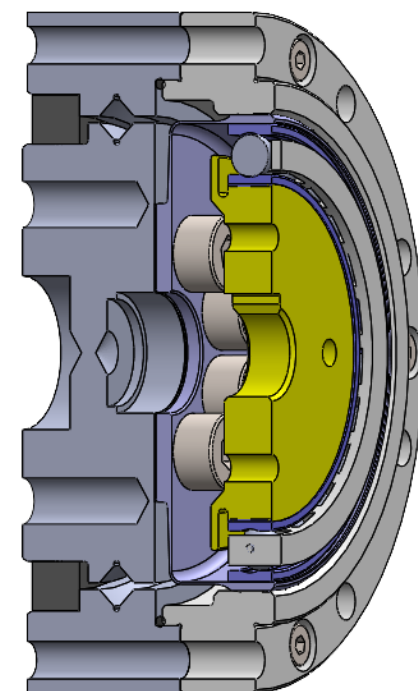
- 紧凑小巧，部件整合优化
- 高精度传动
- 高转矩密度
- 良好的减速比特性
- 精密制造
- Compact and optimized component integration
- High-precision transmission
- High torque density
- Good reduction ratio characteristics
- Precision manufacturing



01 HDSH17100



02 HDUH2080



03 CDUH17100

Harmonic Reducer Featured Application

谐波减速机的特色应用



Industrial multi-articulated - robots
工业多关节-机器人



Collaboration - Robotics
协作-机器人



Horizontal movement - robots
水平移动-机器人



Scope of application
医疗器材



Semiconductor equipment
半导体设备



Metalworking machinery
金属加工机械



Printing machinery
印刷机械



PCB Machinery
PCB机械



Flat panel display
production equipment
平面显示器生产设备



Collaboration-Robotics
机器人/机器手臂



Optical devices
光学设备



Woodworking machinery
木工机械

Thanks for your attention!

感谢您的关注!

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