

05 行星滚柱丝杠系列产品-应用于智能驾驶底盘成功案例

Planetary Roller Screw Series Products - Successful Case Products Applied to Intelligent Driving Chassis

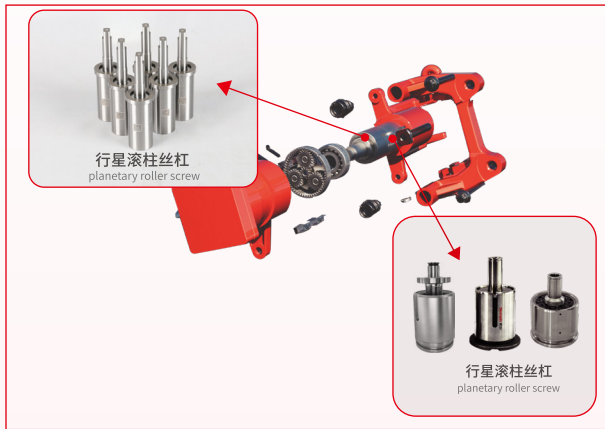
智能驾驶底盘:前后轮转向直线驱动执行机构

Intelligent driving chassis: front and rear wheel steering linear drive actuator



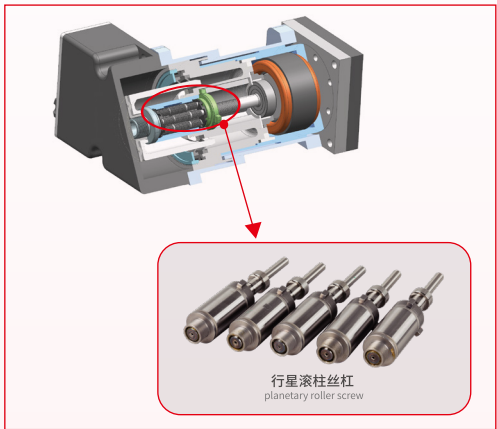
机械电子(EMB)制动系统

EMB System



静液式离合器执行机构

Hydrostatic clutch actuator



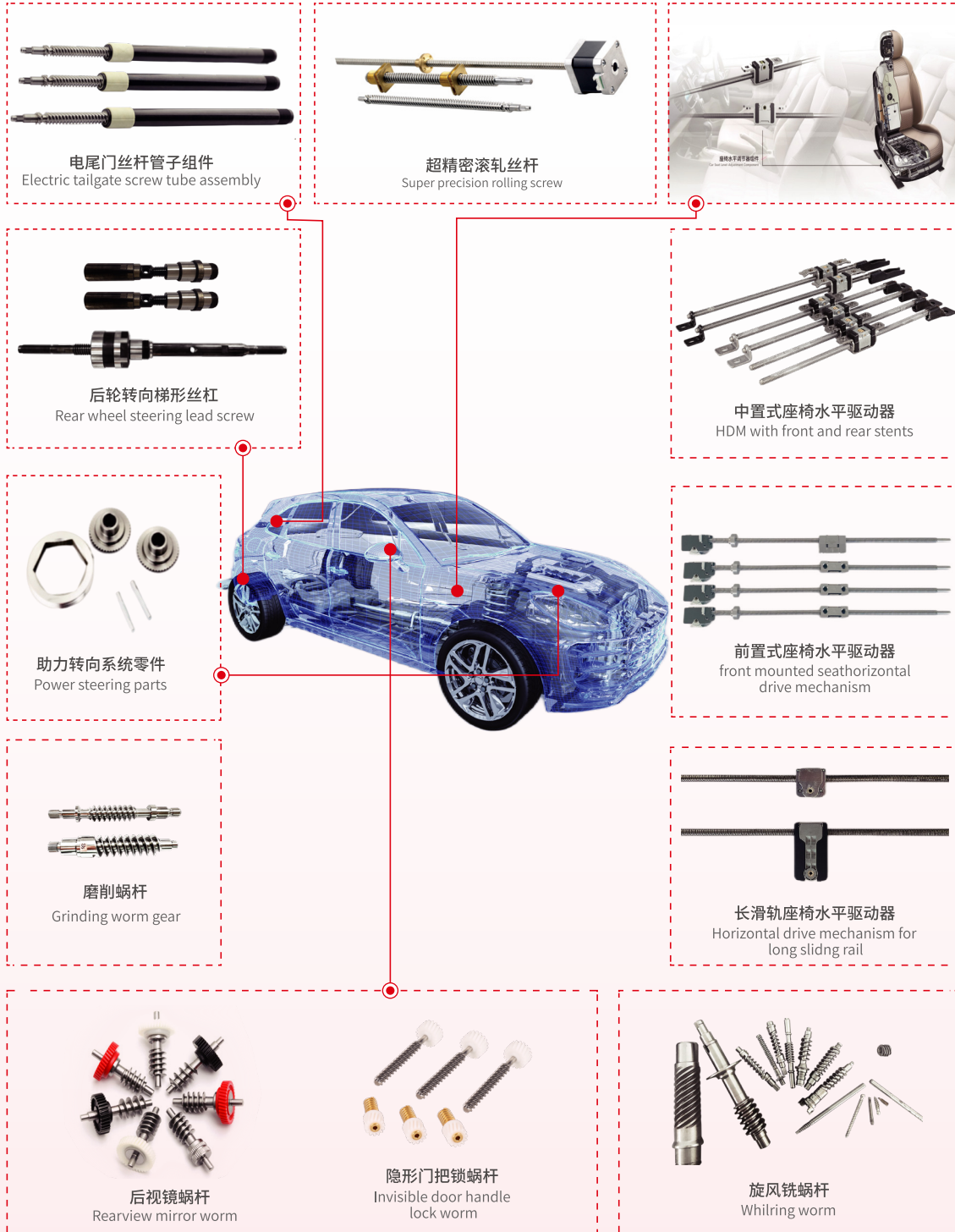
行星滚柱丝杠/滚珠丝杠系列产品-应用于工业产品成功案例

Planetary Roller Screw/Ball Screw Series Products - Successful Cases Applied to Industrial Products



06 蜗杆齿轮系列产品

Worm gear series products



座椅驱动器系列产品

Seat driver series products

使命:智能传动让人们的生活更美好

Mission: Intelligent transmission makes people's life better.

愿景:机电传动产业引领企业之一

Vision: One of the leading enterprises in electromechanical transmission industry.



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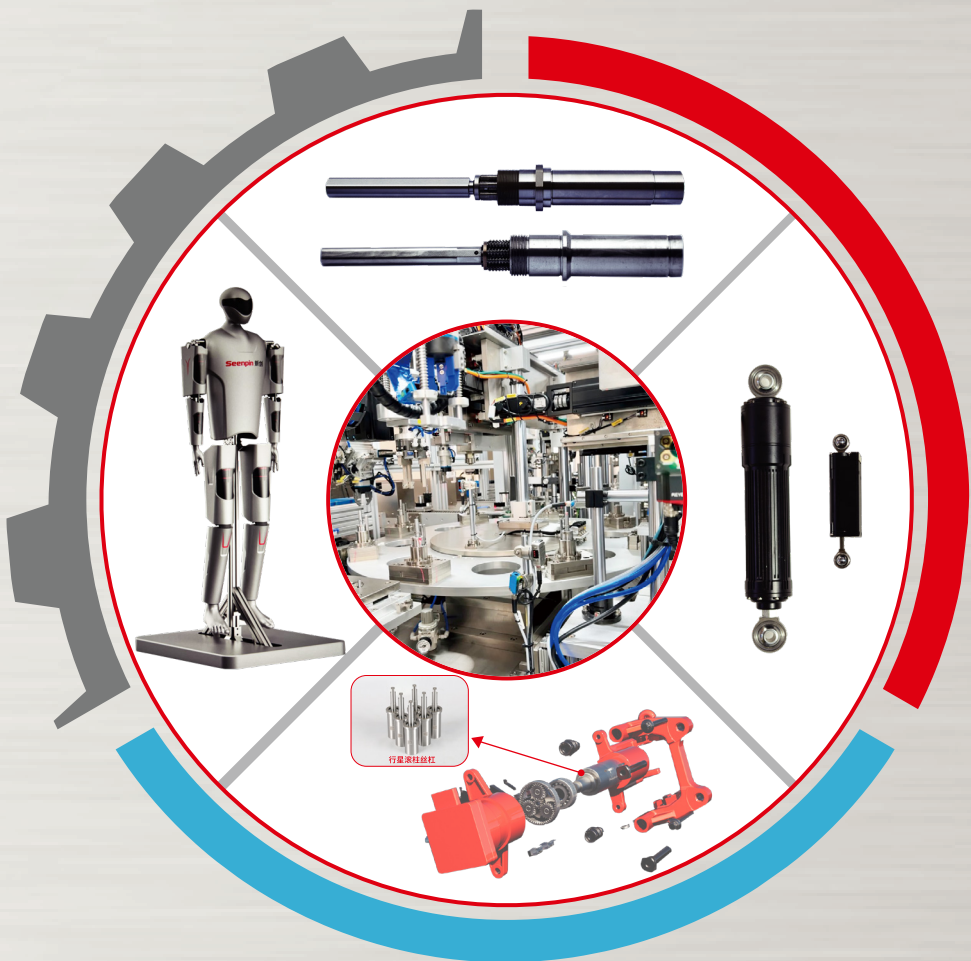
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Seenpin
新剑



全球领先的行星滚柱丝杠及直线型电驱动关节解决方案供应商

THE WORLD'S LEADING SUPPLIER OF PLANETARY ROLLER SCREW LINEAR TRANSMISSION SOLUTIONS

杭州新剑机电传动股份有限公司
HANGZHOU SEENPIN ELECTROMECHANICAL TRANSMISSION CO., LTD

01 公司简介

Company Introduction

杭州新剑机电传动股份有限公司, 全球领先的行星滚柱丝杠-直线型电驱动关节技术解决方案供应商。成立于1999年,国家重点"小巨人"企业,专业从事研发生产:小模数蜗杆齿轮、后轮转向梯形丝杠、座椅水平驱动器、行星滚柱丝杠及直线型电驱动关节等相关系列产品。

产品主要应用:汽车、人形机器人等行业。

2005年成立研发中心, 2015年成立研发中心(上海)实验室分部, 建立了技术创新体系, 精准把握前沿科技和未来产品发展趋势。

新剑为满足客户不同行业不同专业的需求, 以行业专业区分, 设以下事业部子公司:

蜗杆齿轮事业部:CNC车磨精密轴系列产品、小模数切削、滚轧成型蜗杆齿轮、磨削蜗杆、旋风铣蜗杆、后轮转向梯形丝杠等相关系列产品。

新剑机电传动(上海)有限公司:车削蜗杆、旋风铣蜗杆及CNC切削系列产品。

座椅驱动器事业部:座椅水平驱动器(中置式、前置式、长滑轨HDM)相关系列产品。

行星滚柱丝杠事业部:行星滚柱丝杠及直线型电驱动关节系列产品, 可作为液压驱动、滚珠丝杠电缸的技术主力替代方案。

新剑专注机电传动的研发和智能制造, 根据您提供的传动性能指标和接口空间的需求, 为您提供设计实验的技术解决方案, 提供优质的功能性产品, 是您理想合作伙伴!

Hangzhou Seenpin Electromechanical Transmission Co., Ltd. is a leading global supplier in planetary roller screw and linear electric drive joint technology solutions. Established in 1999, Seenpin dedicates specializes in the R&D and manufacturing of small-module worm gears, rear-wheel steering lead screws, seat horizontal actuators, planetary roller screws, and linear electric drive joints.

Our products primarily serve the automotive and humanoid robotics sectors.

Since founding our initial R&D center in 2005, followed by the Shanghai laboratory branch in 2015, we have established a robust technology innovation framework, enabling us to anticipate and lead in emerging technological trends and future product developments.

To effectively serve the specialized needs of various industries, Seenpin is structured into the following divisions and subsidiaries:

Worm Gear Division: Specializes in CNC precision shaft series, small-module cutting, rolling-formed worm gears, grinding worm gears, whirling worm and rear-wheel steering lead screws.

Seenpin Electromechanical Transmission (Shanghai) Co., Ltd.: Focuses on worm turning, hobbing, and CNC-machined series.

Seat Drive Mechanism Division: Produces a range of seat horizontal actuators, including middle-mounted, front-mounted, and long-slide HDM variants.

Planetary Roller Screw Division: Provides planetary roller screws and linear electric drive joints, offering robust alternatives to traditional hydraulic drives and ball screw electric cylinders.

At Seenpin, we are committed to advancing electromechanical transmission technology through intelligent manufacturing and customized R&D solutions. We collaborate closely with clients to develop technical solutions tailored to their specific transmission performance and interface requirements. Our goal is to deliver high-quality, functional products that make Seenpin the preferred partner in electromechanical innovation.



杭州新剑机电传动股份有限公司-总部、研发、制造基地大楼(杭州城西科创大走廊科技大道)
Hangzhou Seenpin Electromechanical Transmission Co., Ltd.-Headquarters, R&D, and Manufacturing Base Building under Construction(Hangzhou West Science and Technology Innovation Corridor Science and Technology Avenue)



杭州新剑机电传动股份有限公司-昌化制造基地(杭州市临安区昌化工业园区)
Hangzhou Seenpin Electromechanical Transmission Co., Ltd.-Changshu Manufacturing Base(Changshu Industrial Park, Lian'an District, Hangzhou) CH



新剑机电传动(上海)有限公司(上海市松江区光华路)
Seenpin Electromechanical Transmission (Shanghai) Co., Ltd. (Songjiang District, Shanghai)



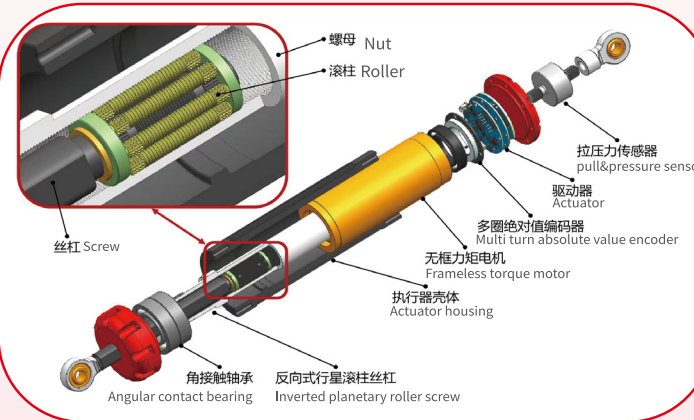
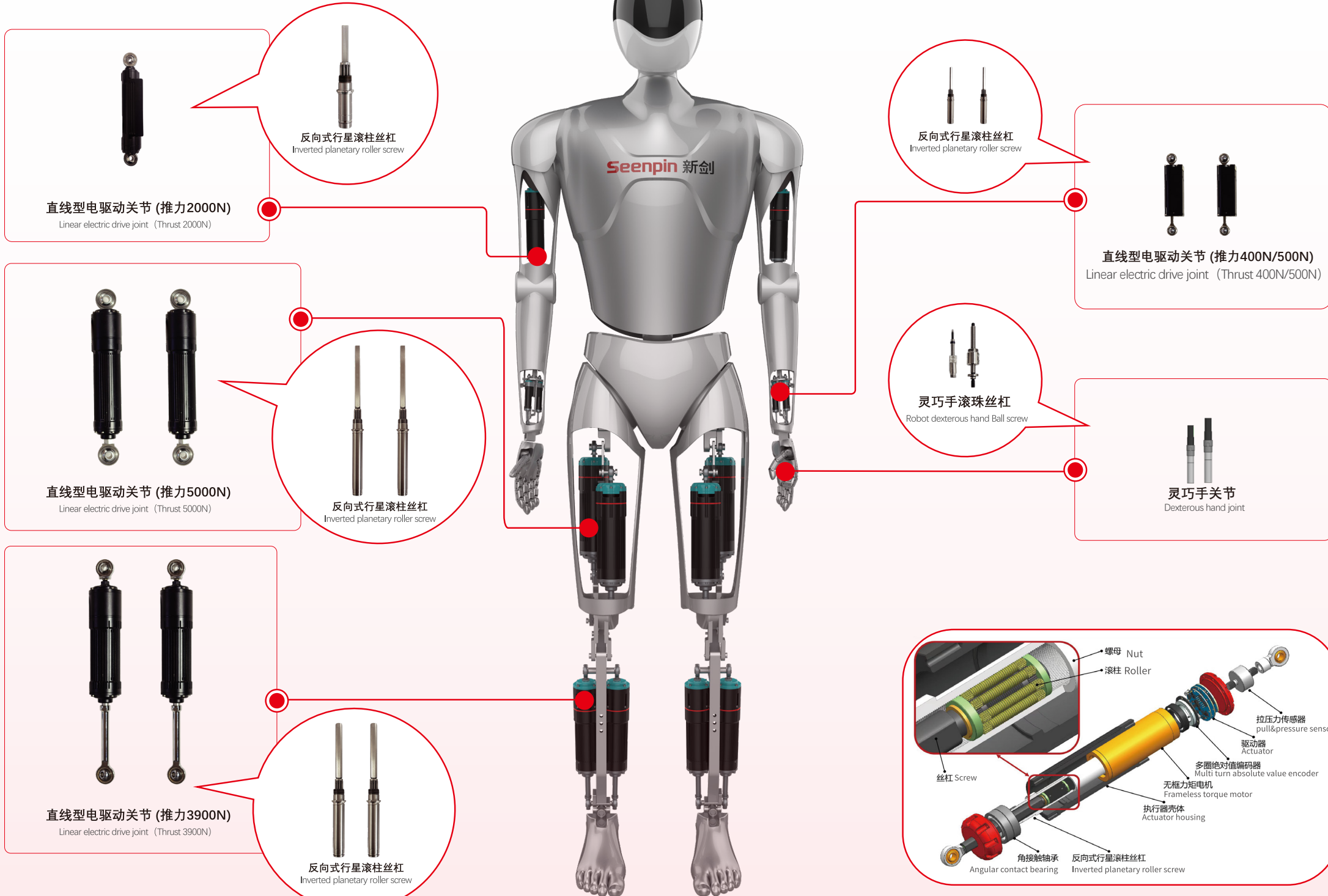
新剑机电传动(泰国)有限公司-建设中
Seenpin Electromechanical Transmission (Thailand) Co., Ltd.

02 全球领先的行星滚柱丝杠-直线型电驱动关节技术解决方案供应商

THE WORLD'S LEADING SUPPLIER OF PLANETARY ROLLER SCREW LINEAR TRANSMISSION SOLUTIONS

反向式行星滚柱丝杠-直线型电驱动关节系列产品-应用于人形机器人

Inverted planetary roller screw - linear electric drive joint series products - applied to humanoid robots



03 人形机器人-直线电驱动关节型号规格说明

Application to humanoid robots - Linear electric drive joint model specification manual

序号 NO.	最大推力 (标准) Max. Force (Standard Product)	外形尺寸 (标准) Size (Standard Product)	最大速度 (标准) Max. Speed (Standard Product)	行程 (标准) Stroke (Standard Product)	重量 (标准) (标准) Weight (Standard Product)	抱闸 (标准) (标准) Brake (Standard Product)	额定电压V (标准) (标准) Rated voltage (Standard Product)	通讯方式 (标准) (标准) Network Communication	研发版本号 (标准) (标准) version number	推荐 使用部位
1	400N/ 500N	29.4mm*100mm 35mm*130mm	80mm/s 100mm/s	40mm	0.16kg 0.36kg(预估) (Forecast)	不带 Without	DC48±10%	CANFD/EtherCAT	V2.1 V4	小臂 Forearm
2	3900N	50mm*315mm	300mm/s	80mm	1.2kg(预估) (Forecast)	不带 Without	DC48±10%	CANFD/EtherCAT	V3	小腿 Lower leg
3	5000N	50mm*244mm	300mm/s	100mm	1.4kg(预估) (Forecast)	不带 Without	DC48±10%	CANFD/EtherCAT	V3	大腿 Thigh
4	150N	9.5mm*70.4mm	40mm/s	10mm	0.024kg(预估) (Forecast)	不带 Without	DC12±10%	CANFD/EtherCAT	V1	灵巧手 Dexterous Hand
5	2000N	32mm*187mm	150mm/s	80mm	0.65kg(预估) (Forecast)	不带 Without	DC48±10%	CANFD/EtherCAT	V1	腰部 Lumbar region

注: 在研发版本号中, 接受客户要求二次开发, 也接受定制研发。
The R&D version supports secondary development and custom solutions.

04 应用于直线型电驱动关节-反向式行星滚柱丝杠型号规格说明书

Application to linear electric drive joints - Inverted planetary roller screw model specification manual

序号 NO.	对应直线关节推力 Matching Thrust of Linear joint	标准尺寸A Standard dimensions A	定制尺寸A Customized dimensions A	标准尺寸B Standard dimensions B	标准行程 Standard stroke	标准导程 Standard lead	额定静载荷 Rated static load
1	400N/500N	17mm	40mm	40mm	0.06Kg(预估)	3mm	3000N
2	3900N	9mm	21mm	75mm	0.26Kg(预估)	3mm	15000N
3	5000N	25mm	80mm	80mm	0.38Kg(预估)	3mm	23000N
4	150N (V1-灵巧手)	9.4mm	30mm	30mm	0.009Kg(预估)	1mm	570N
5	2000N	17mm	70mm	70mm	0.155Kg(预估)	2mm	13000N



注:不同版本之间参数有变化,详情以实物为准

Note: There may be changes in parameters between different versions, please refer to the actual product for details