

行星滚柱丝杠产品手册

PLANETARY ROLLER SCREW
PRODUCT MANUAL

ENDURANCE TECHNOLOGYSM
A PHEAKO Design Principle



PHK 非攻

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MAKE LINEAR MOTION EXCITING

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关于非攻 About PHEAKO

非攻（PHEAKO）是一家专注于线性传动产品研发、制造及销售的中日合资企业，主要产品包括直线导轨、滚珠丝杠、行星滚柱丝杠和直线模组等高精密直线传动元件，广泛应用于各种机械设备中，如数控机床、自动化生产线、机器人、半导体设备、激光设备、橡塑设备、航空航天设备、医疗器械、3D 打印、精密仪器等领域。

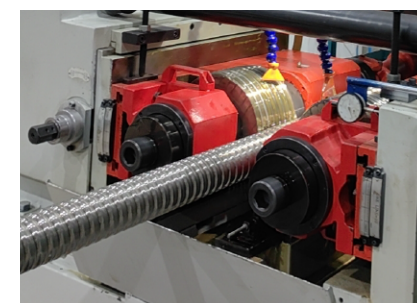
公司先后荣获国家高新技术企业、国家科技型中小企业、市研发中心；公司先后通过质量管理体系ISO9001 认证、知识产权管理体系认证；公司建立博士后工作站。

匠心铸就未来。公司将始终坚持“兼爱非攻”的价值观，秉承“以市场为导向、以客户为中心、以品质为基石、以技术为驱动、以诚信为根本”的经营理念，致力成为线性传动行业标杆。

PHEAKO is a Sino-Japanese joint venture focusing on the R&D, manufacturing and sales of linear transmission products. Its main products include high-precision linear transmission components such as linear guides, ball screws, planetary roller screws and linear modules. Used in various mechanical equipment, such as CNC machine tools, automated production lines, robots, semiconductor equipment, laser equipment, rubber and plastic equipment, aerospace equipment, medical devices, 3Dprinting, precision instruments and other fields.

PHEAKO has successively won the titles of National High-tech Enterprise, National Scientific and Technological Middle-and-small Enterprise, and Municipal R&D Center; the company has obtained ISO9001 quality management system certification and intellectual property management system certification; the company has established a postdoctoral workstation.

Ingenuity casts the future. PHEAKO will always insist on the value of "Universal love and non-aggression", adhering to the business philosophy of "Market-oriented, customer-centric, quality based, technology driven, and integrity based", committed to becoming a benchmark in the linear transmission industry.



全球布局 Global Footprints

上海研发中心

直线导轨研发 | 滚珠丝杠研发 | 行星滚柱丝杠研发

Shanghai R&D Center

Linear guide development | Ball screw development

Planetary roller screw development



义乌制造工厂

智能 | 测试 | 品质

Yiwu Manufacturing Factory

Intelligent | testing | quality



诸暨制造工厂

智能 | 热处理 | 品质

Yiwu Manufacturing Factory

Intelligent | heat treatment | quality



北京事务所

面向华北区域客户服务

Beijing Office

Customer service for the North China region



深圳事务所

面向华南区域客户服务

Shenzhen Office

Customer service for the South China region



成都事务所

面向西南区域客户服务

Chengdu Office

Customer service for the Southwest region



日本事务所

面向日本客户服务

Japan Office

Serving Japanese customers



新加坡事务所

面向东南亚客户服务

Singapore Office

Serving Southeast Asian customers





荣誉资质 Honor and Qualification



- | | | | |
|---|--|---|---|
| 国家高新技术企业
Nation High-Tech Enterprise | 国家科技型中小企业
National technology-based small and medium-sized enterprises | 浙江省专精特新中小企业
Zhejiang Province specialized in special new small and medium-sized enterprises | 浙江省博士后工作站
Zhejiang Province Postdoctoral Workstation |
| 市级研发中心
City level research and development center | 浙江自动化学会
Zhejiang Automation Society | 浙师大MBA企业实践基地
Zhejiang Normal University MBA Enterprise Practice Base | 浙工大产学研合作基地
Zhejiang University of Technology Industry Research Cooperation Base |

ISO9001认证证书

Iso9001 Certification Certificate

知识产权管理体系认证证书

Intellectual Property Management System Certification

知识产权管理体系评价证书

Intellectual Property Management System Evaluation Certificate



研发团队实力雄厚，荣获五十余项专利证书



生产与技术 Production And Technology

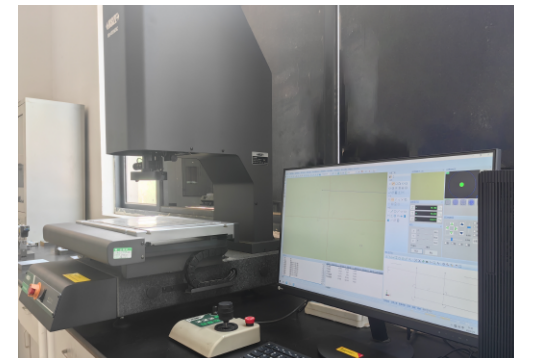
自主创新 Innovation

发掘市场需求，引领技术创新和行业应用

不断开发和制造技术先进、超越客户期待的产品，是非攻一贯的追求；核心部件和核心技术拥有完全自主知识产权、不断增加产品新价值，用新技术为行业寻求最佳解决方案。

Exploring market demand, leading technological innovation and industry applications

Continuously developing and manufacturing products that are technologically advanced and exceed customer expectations is PHEAKO 's consistent pursuit; core components and core technologies have completely independent intellectual property rights, constantly adding new value to products, and using new technologies to seek the best solutions for the industry.



品质管控 Quality

选择“PHEAKO”就是选择“放心”

高性能、高品质是非攻一以贯之的坚持；多年来，非攻对品质的要求和管控，使得客户相信选择了“非攻”就等同选择了“放心”。

Choosing "PHEAKO" means choosing "rest assured"

High performance and high quality are PHEAKO 's consistent insistence; over the years, PHEAKO 's quality requirements and control have made customers believe that choosing " PHEAKO " is equivalent to choosing "rest assured".



客户响应 Response

倾听客户的声音，想客户之所想

永远把客户放在第一位考虑，倾听客户的声音，解决客户的问题，始终贯彻“更好地传递动力和价值”这个使命。

Listening to the customers and thinking about what customers think

Always put customers first, listen to customers, solve the problems, and always implement the mission of " Deliver motivation and value better".



技术服务与时效 Technical Service And Timeliness



全程“一对一”技术支持 One for one support

有专业技术工程师协助客户对选型、设计、校核、安装、调试、维护进行全程“一对一”的专业技术支持。

Continuously developing and manufacturing products that are technologically advanced and exceed customer expectations is PHEAKO's consistent pursuit; core components and core technologies have completely independent intellectual property rights, constantly adding new value to products, and using new technologies to seek the best solutions for the industry.



免费设计与校核工具 Calculation and verification tools

为客户提供负载、速度、加速度、容许力矩、作动周期、工作寿命等参数的计算和校核小工具。

Provide customers with calculation and verification tools for parameters such as load, speed, acceleration, allowable torque, actuation cycle, and working life.



特殊检测报告 Special testing report

可为客户提供特殊环境或特殊要求场合下使用时对产品性能和产品验证报告。

We can provide customers with product performance and product verification reports when used in special environments or occasions with special requirements.



终身维修与保养 Lifetime service and maintenance

对全系列产品推行全生命周期内终身维修和检测。即使质保期外，也仅收取基本的配件费用和人工费用。

Implement lifelong maintenance and testing throughout the entire life cycle of all products. Even if the warranty period is out, only the cost of essential parts and labor will be charged.



品质保证 Quality assurance

导入2次元及3次元检测设备，滑台工作状态噪音检测，激光干涉仪量测，上母线、侧母线直线度，以及重复定位精度，确保超越行业水平的产品品质。

The introduction of 2D and 3D inspection equipment, noise detection of the sliding table working status, laser interferometer measurement, straightness of the upper busbar and side busbar, and repeat positioning accuracy ensure product quality that exceeds the industry level.



标准品7天交货 Delivery lead time:7days

标准品常备大量原材料及半成品库存，保证7个工作日交货。

We have a large inventory of raw materials and semi-finished products for standard products, ensuring delivery within 7 working days.

行星滚柱丝杠特性 Planetary roller screw characteristics

行星滚柱丝杠是一种将旋转运动转换为线性运动的机械装置：在主螺纹丝杠的周围行星分布了数根螺纹滚柱，将电机的旋转运动转换为丝杠或螺母的直线运动。行星滚柱丝杠能在恶劣的环境下承受重载上千个小时，是连续工作制应用场合的理想选择，可广泛应用于数控机床、工业机器人、伺服电缸、航空（飞机、直升机）、航天（火箭、卫星）、注塑机、机械压力机、冶金设备、汽车工业等等。

The planetary roller screw is a mechanical device that converts rotational motion into linear motion: several threaded rollers are distributed around the main thread screw, the rotary motion of the motor is converted into the linear motion of the screw rod or nut. The planetary roller screw, which can withstand heavy loads of up to a thousand hours in harsh conditions, is an ideal choice for continuous working applications, can be widely used in CNC machine tools, industrial robots, servo cylinder, aviation (aircraft, helicopter), Aerospace (rocket, satellite), injection molding machine, mechanical press, metallurgical equipment, automotive industry and so on.

■ 标准式行星滚柱丝杠RPS系列 Standard planetary roller screw RPS series

RPS 系列行星滚柱丝杠的丝杠和螺母带有三角形多头螺纹，滚柱为具有一定螺纹升角的球形单头螺纹，两端带有直齿，内齿圈固定在螺母两端并与滚柱两端直齿轮啮合，避免滚柱轴线相对于丝杠倾斜，消除丝杠螺旋升角对滚柱产生倾覆力矩，确保滚柱平行于丝杠轴线转动。

RPS 系列行程大，具备高负载和高速的特点，主要应用于精密机床、机器人、军工设备等领域，是目前应用最广泛的类型。

The screw rod and nut of RPS series planetary roller screw are provided with triangular multi-head thread, the roller is a spherical single-head thread with certain thread rising angle, and both ends are provided with straight teeth, the inner gear ring is fixed at both ends of the nut and meshes with the straight gears at both ends of the roller to prevent the roller axis from tilting relative to the screw rod, to eliminate the overturning moment caused by the screw rising angle to the roller, and to ensure that the roller rotates parallel to the screw axis.

RPS series has the characteristics of large stroke, high load and high speed. It is widely used in precision machine tool, robot, military equipment and other fields.

■ 反转式行星滚柱丝杠RPI系列 Reverse planetary roller screw RPI series

与标准式相比，反向式是以螺母为旋转输入，而丝杠作为直线输出，滚柱与丝杠之间无相对轴向位移。体积小，便于集成，可将螺母作为电机转子实现电机和丝杠的一体化设计。

RPI 系列结构设计紧凑，方便一体化设计，但行程受螺母螺纹长度限制，主要用于中小负载、小行程和高速的环境下，可应用于航空、航天、船舶、电力等领域。

Compared with the standard type, the reverse type takes the nut as the rotating input and the screw rod as the linear output, and there is no relative axial displacement between the roller and the screw rod. Small size, easy integration, can be used as a motor rotor nut motor and screw to achieve the integrated design.

RPI series structure design is compact, convenient integration design, but the stroke is limited by nut thread length, mainly used for small and medium load, small stroke and high speed environment, the utility model can be applied to the fields of aviation, spaceflight, ships, electric power, etc.

行星滚柱丝杠产品实例说明

Example of planetary roller screw products

RPS-X 12 05 R-300-480 C7

循环形式 Cycle form
RPS:标准式 Standard type
RPI:反转式 Reverse type

螺母形式 Nut form
O:无法兰 Flangeless
M:法兰对称式 Flange symmetric type
N:法兰不对称式 Flange asymmetrical type
X:特殊定制 Special tailor-made

公称直径 Nominal diameter :mm

导程 Lead :mm

螺纹旋向 Direction of thread
R:右旋 Right-handed rotation
L:左旋 Left-handed rotation
RL:左右旋 Left and right

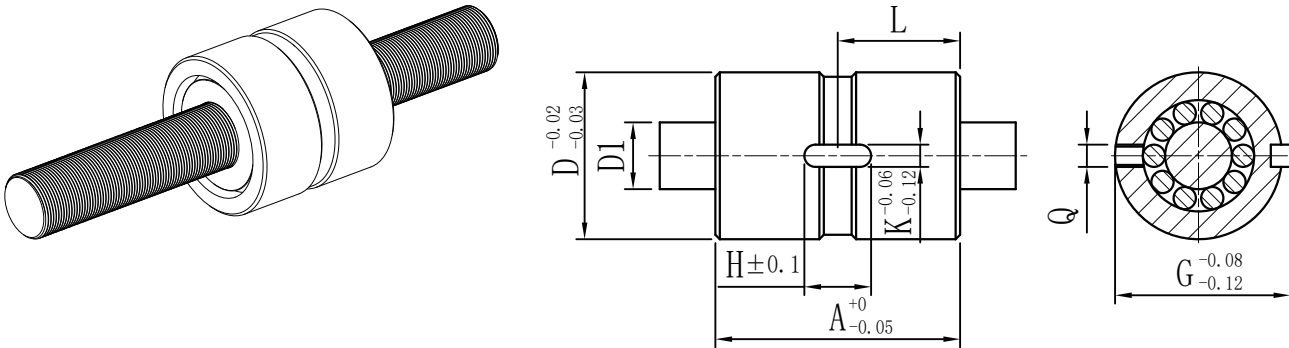
螺纹长 Thread length :mm

螺杆长 Total length of screw :mm

精度等级 Precision grade
C1:±0.005mm
C3:±0.01mm
C5:±0.025mm
C7:±0.05mm

RPS-0标准式行星滚柱丝杠系列

RPS-0 standard planetary roller screw series



单位Unit：mm

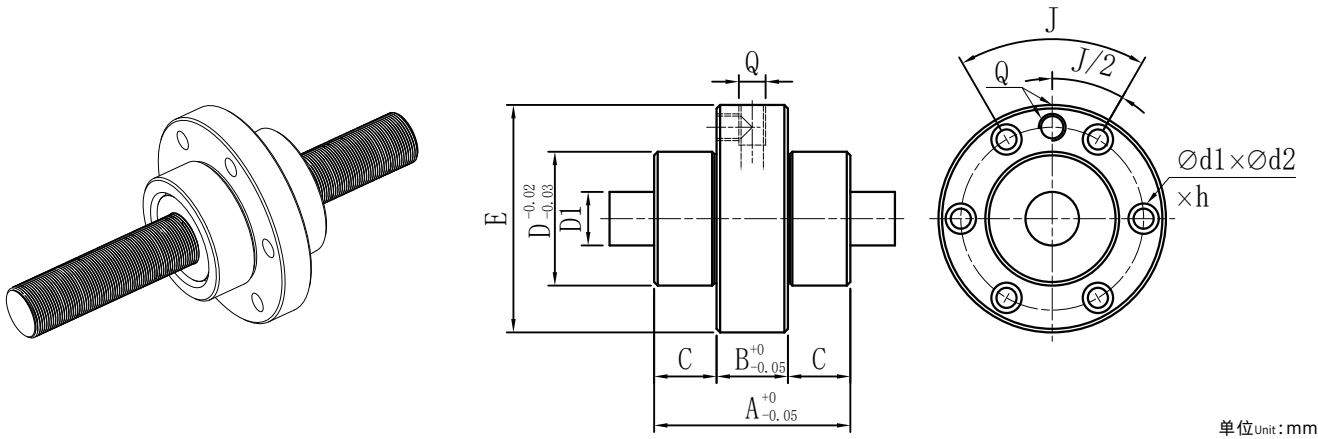
型号 Model	轴径D1 Shaft diameter	导程 Lead	基本额定载荷 (kN) Basic rated load		螺母尺寸 Nut size						
			动态载荷Dynamic load	静态载荷Static load	A	D	H	K	G	Q	L
RPS-O 8	8.2	2	8.4	10.8	40	25	12	4	26.5	φ4	20
	8.3	4	10.5	13.5							
RPS-O 12	12.2	2.5	12.9	16.7	44	30	12	4	31.5	φ4	22
	12.4	5	14	18.1							
RPS-O 15	15.4	5	26	43.5	50	35	16	4	36.5	φ4	25
	15.8	10	27.3	40.7							
RPS-O 18	18.4	5	36.8	59.8	58	40	18	5	42	φ5	29
	18.8	10	37.6	56.4							
RPS-O 21	21.4	5	50.5	82	64	45	20	5	47	φ5	32
	21.8	10	59.2	83							
	22.2	15	63.8	84.2							
	24.4	5	59.5	102							
RPS-O 24	24.8	10	68.7	100.4	70	52	20	5	54	φ5	35
	25.2	15	76.2	116							
	27.4	5	68.4	122							
RPS-O 27	27.8	10	78.6	118	80	58	25	6	60.5	φ5	40
	28.2	15	85.6	120							
	30.4	5	92.2	178							
RPS-O 30	30.8	10	106	174	85	64	32	6	66.5	φ5	42.5
	31.2	15	119	182							
	31.6	20	123	177							
	33.4	5	105.8	213.7							
RPS-O 33	33.8	10	123.8	212.8	90	70	32	6	72.5	φ5	45
	34.2	15	137.7	217.6							
	34.6	20	141.5	267.4							
RPS-O 36	36.4	5	115.4	252.6	95	75	32	6	77.5	φ5	45
	36.8	10	135.1	232.1							
	37.2	15	150.2	237.3							
	37.6	20	154.4	228.5							
RPS-O 39	39.4	5	129	269	100	80	40	8	83	φ7	50
	39.8	10	153	271							
	40.2	15	169	273							
	40.6	20	173	261							
	41	25	175	249							
RPS-O 42	42.4	5	157.8	362.5	112	90	40	8	93	φ7	56
	42.8	10	185.8	360.1							
	43.2	15	206.1	366.4							
	43.6	20	212.8	362							
	44	25	222.5	357.2							
RPS-O 45	45.4	5	169.1	388.4	120	100	45	8	103	φ7	60
	45.8	10	199.1	385.8							
	46.2	15	220.8	392.5							
	46.6	20	228.1	387.9							
	47	25	238.4	382.7							
RPS-O 48	48.4	5	198	482	127	100	45	8	103	φ7	63.5
	48.8	10	232	475							
	49.2	15	258	486							
	49.6	20	268	489							
	50	25	286	491							
	50.4	30	276	467							

单位Unit: mm

型号 Model	轴径D1 Shaft diameter	导程 Lead	基本额定载荷 (kN) Basic rated load		螺母尺寸 Nut size						
			动态载荷Dynamic load	静态载荷Static load	A	D	H	K	G	Q	L
RPS-O 54	54.8	10	360.6	834.2	150	110	45	8	113	φ7	75
	55.2	15	375.8	845.6							
	55.6	20	390.2	834.8							
	56	25	407.7	856.8							
	56.4	30	398.9	841.5							
RPS-O 60	60.8	10	490	1196	171	120	45	10	123	φ10.5	85.5
	61.2	15	494	1206							
	76.2	15	836	2473							
RPS-O 75	76.6	20	846	2455	213	150	63	10	153	φ10.5	106.5
	77	25	855	2461							
	77.4	30	852	2420							
	88.2	15	1059	3527							
RPS-O 87	88.6	20	1066	3452	245	175	80	12	179	φ10.5	122.5
	89	25	1085	3513							
	89.4	30	1085	3465							
	100.2	15	1277	4671							
RPS-O 99	100.6	20	1316	4741	280	200	80	16	204	φ15	140
	101	25	1328	4749							
	101.4	30	1330	4694							
	101.8	35	1329	4939							
	113.7	15	1396	5228							
RPS-O 112.5	114.1	20	1421	5297	300	230	100	16	234	φ15	140
	114.5	25	1446	5341							
	114.9	30	1455	5315							
	115.3	35	1461	5289							
RPS-O 120	121.2	15	1547	6179	330	240	100	16	244	φ15	165
	121.6	20	1587	6263							
	122	25	1585	6123							
	122.4	30	1614	6207							
	122.8	35	1640	6291							
	123.2	40	1651	6301							
RPS-O 135	136.2	15	1843	8037	370	280	120	16	285	φ15	185
	136.6	20	1858	7922							
	137	25	1903	8059							
	137.4	30	1940	7943							
	137	35	1921	7953							
	138.2	40	1909	7796							
	139	50	1944	7901							
	151.2	15	2200	10446							
RPS-O 150	151.6	20	2240	10459	410	320	120	20	325	φ15	205
	152	25	2137	9553							
	152.4	30	2167	9611							
	152.8	35	2167	9483							
	153.2	40	2176	9449							
	154	50	2189	9379							
RPS-O 180	181.2	15	3073	17366	528	390	120	20	395	φ15	264
	181.6	20	3123	17319							
	182	25	3002	16004							
	182.4	30	3009	15790							
	182.8	35	3023	15690							
	183.2	40	3075	15931							
	184	45	3128	16073							
RPS-O 210	211.6	20	3371	19164	570	440	120	20	445	φ15	285
	212	25	3435	19324							
	212.4	30	3249	17472							
	212.8	35	3265	17359							
	213.2	40	3322	17635							
	214	50	3281	17789							
RPS-O 240	242	25	3919	23387	600	490	120	20	495	φ15	300
	242.4	30	3931	23089							
	242.8	35	3994	23350							
	243.2	40	3808	21497							
	244	50	3860	21539							

RPS-M标准式行星滚柱丝杠系列

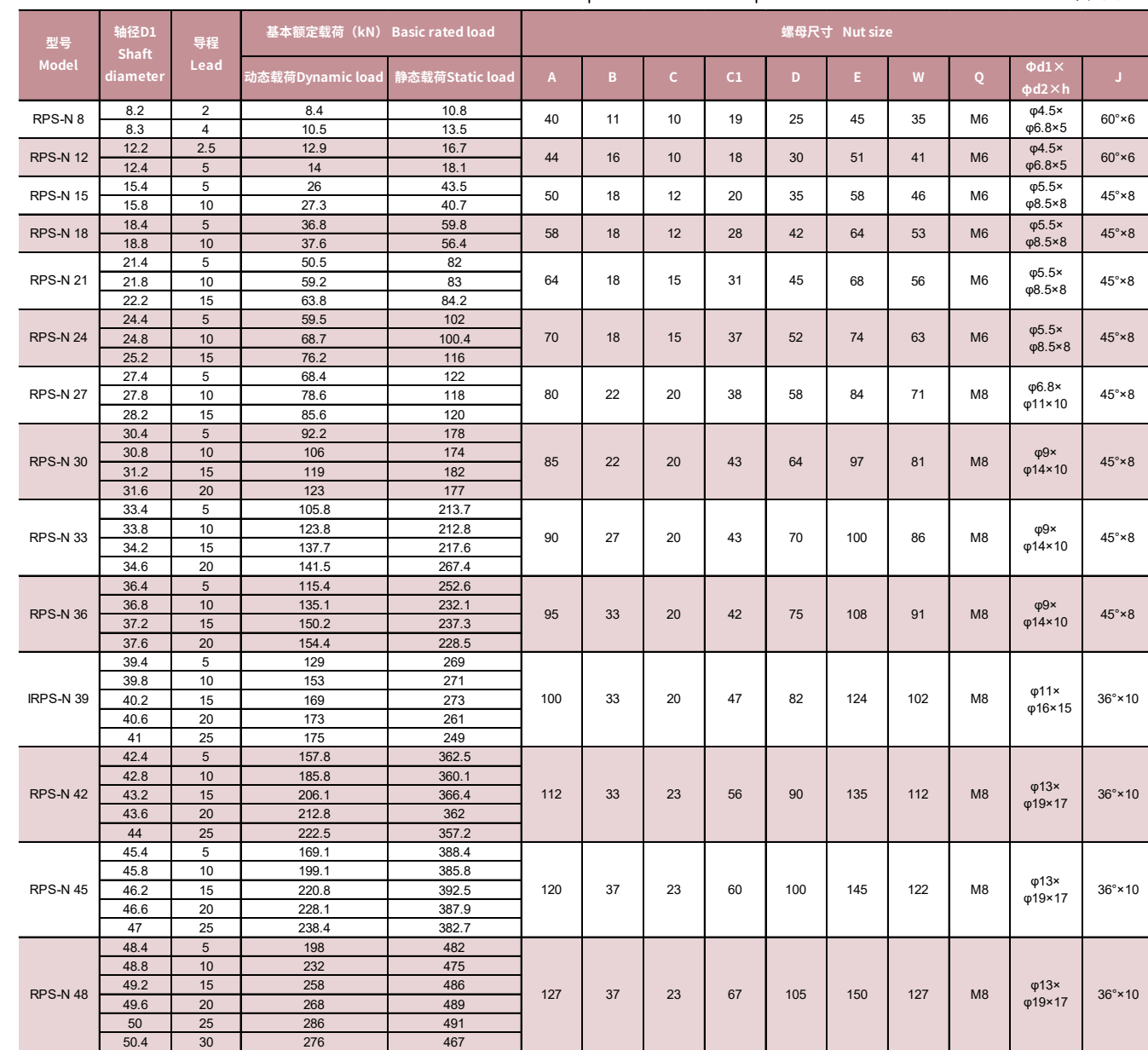
RPS-M standard planetary roller screw series



单位Unit: mm

型号 Model	轴径D1 Shaft diameter	导程 Lead	基本额定载荷 (kN) Basic rated load		螺母尺寸 Nut size								
			动态载荷Dynamic load	静态载荷Static load	A	B	C	D	E	W	Q	Φd1× Φd2×h	J
RPS-M 8	8.2	2	2.5	4.9	40	11	14.5	25	45	35	M6	Φ4.5× Φ6.8×5	60°×6
	8.3	4	2.45	4.67									
RPS-M 12	12.2	2.5	11.2	14.5	44	16	14	30	51	41	M6	Φ4.5× Φ6.8×6	60°×6
	12.4	5	14	18.1									
RPS-M 15	15.4	5	26	43.5	50	18	16	35	58	46	M6	Φ5.5× Φ8.5×8	45°×8
	15.8	10	27.3	40.7									
RPS-M 18	18.4	5	36.8	59.8	58	18	20	42	64	53	M6	Φ5.5× Φ8.5×8	45°×8
	18.8	10	37.6	56.4									
RPS-M 21	21.4	5	50.5	82	64	18	23	45	68	56	M6	Φ5.5× Φ8.5×8	45°×8
	21.8	10	59.2	83									
	22.2	15	63.8	84.2									
RPS-M 24	24.4	5	59.5	102	70	18	26	52	74	63	M6	Φ5.5× Φ8.5×10	45°×8
	24.8	10	68.7	100.4									
	25.2	15	76.2	116									
RPS-M 27	27.4	5	68.4	122	80	22	29	58	84	71	M8	Φ6.8× Φ11×10	45°×8
	27.8	10	78.6	118									
	28.2	15	85.6	120									
RPS-M 30	30.4	5	92.2	178	85	22	31.5	64	97	81	M8	Φ9× Φ14×10	45°×8
	30.8	10	106	174									
	31.2	15	119	182									
	31.6	20	123	177									
RPS-M 33	33.4	5	105.8	213.7	90	27	31.5	70	100	86	M8	Φ9× Φ14×10	45°×8
	33.8	10	123.8	212.8									
	34.2	15	137.7	217.6									
	34.6	20	141.5	267.4									
RPS-M 36	36.4	5	115.4	252.6	95	33	31	75	108	91	M8	Φ9× Φ14×10	45°×8
	36.8	10	135.1	232.1									
	37.2	15	150.2	237.3									
	37.6	20	154.4	228.5									
RPS-M 39	39.4	5	129	269	100	33	33.5	82	124	102	M8	Φ11× Φ16×15	36°×10
	39.8	10	153	271									
	40.2	15	169	273									
	40.6	20	173	261									
	41	25	175	249									
RPS-M 42	42.4	5	157.8	362.5	112	33	39.5	90	135	112	M8	Φ13× Φ19×15	36°×10
	42.8	10	185.8	360.1									
	43.2	15	206.1	366.4									
	43.6	20	212.8	362									
RPS-M 45	44	25	222.5	357.2	120	37	41.5	100	145	122	M8	Φ13× Φ19×17	36°×10
	45.4	5	169.1	388.4									
	45.8	10	199.1	385.8									
	46.2	15	220.8	392.5									
	46.6	20	228.1	387.9									
RPS-M 48	47	25	238.4	382.7	127	37	45	105	150	127	M8	Φ13× Φ19×17	36°×10
	48.4	5	198	482									
	48.8	10	232	475									
	49.2	15	258	486									
	49.6	20	268	489									
	50	25	286	491									
50.4	30	276	467										

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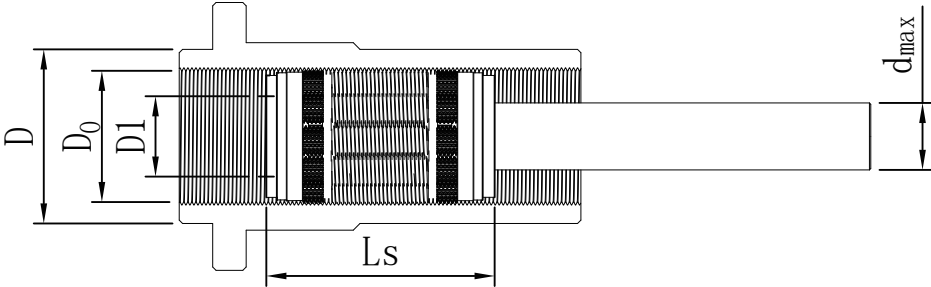


RPI-X反转式行星滚柱丝杠系列

RPI-X reverse planetary roller screw series

RPI-X反转式行星滚柱丝杆为可定制系列, 螺母的长度和主轴的末端按客户的需求设计。

RPI-X reverse planetary roller screw for the customizable series, nut length and spindle end design according to customer requirements.



单位Unit : mm

型号 Model	轴径D1 Shaft diameter	导程 Lead	基本额定载荷 (kN) Basic rated load		螺母尺寸 Nut size										
			动态载荷Dynamic load	静态载荷Static load	A	B	C	C1	D	E	W	Q	Φd1× Φd2×h	J	
RPS-N 54	54.8	10	360.6	834.2	150	40	25	85	110	170	140	M8	φ15× φ22×20	36°×10	
	55.2	15	375.8	845.6											
	55.6	20	390.2	834.8											
	56	25	407.7	856.8											
	56.4	30	398.9	841.2											
RPS-N 60	60.8	10	490	1196	171	45	25	101	122	180	150	M8	φ17× φ25×25	36°×10	
	61.2	15	494	1206											
	61.6	20	515	1181											
	62	25	530	1227											
	62.4	30	528	1216											
IRPS-N 75	76.2	15	836	2473	213	45	25	143	150	210	180	M8	φ17× φ25×25	30°×12	
	76.6	20	846	2455											
	77	25	855	2461											
	77.4	30	852	2420											
	88.2	15	1059	3527											
RPS-N 87	88.6	20	1066	3452	245	45	25	175	175	235	200	M8	φ17× φ25×25	30°×12	
	89	25	1085	3513											
	89.4	30	1085	3465											
	100.2	15	1277	4671											
	100.6	20	1316	4741											
RPS-N 99	101	25	1328	4749	280	50	25	205	200	270	235	M8	φ17× φ25×25	22.5°×16	
	101.4	30	1330	4694											
	101.8	35	1329	4639											
	113.7	15	1396	5228											
	114.1	20	1421	5297											
RPS-N 112.5	114.5	25	1446	5341	300	50	25	225	230	286	260	M12	φ17× φ25×25	22.5°×16	
	114.9	30	1455	5315											
	115.3	35	1461	5289											
	121.2	15	1547	6179											
	121.6	20	1587	6263											
RPS-N 120	122	25	1585	6123	330	55	25	250	240	296	268	M12	φ19× φ28×25	22.5°×16	
	122.4	30	1614	6207											
	122.8	35	1640	6291											
	123.2	40	1651	6301											
	136.2	15	1843	8037											
IRPS-N 135	136.6	20	1858	7922	370	60	30	280	280	345	313	M12	φ19× φ28×25	22.5°×16	
	137	25	1903	8059											
	137.4	30	1940	7943							315				
	137.8	35	1921	7953											
	138.2	40	1909	7796											
	139	50	1944	7901											
	RPS-N 150	151.2	15	2200							10446				410
151.6		20	2240	10459											
152		25	2137	9553											
152.4		30	2167	9611											
152.8		35	2167	9483											
153.2		40	2176	9449											
154		50	2189	9379											
RPS-N 180	181.2	15	3073	17366	528	90	35	403	390	470	430	M12	φ23× φ35×30	22.5°×16	
	181.6	20	3123	17319											
	182	25	3002	16004											
	182.4	30	3009	15790											
	182.8	35	3023	15690											
	183.2	40	3079	15931											
	184	50	3128	16073											
RPS-N 210	211.6	20	3371	19164	570	100	35	435	440	530	485	M12	φ25× φ38×40	22.5°×16	
	212	25	3435	19324											
	212.4	30	3249	17472											
	212.8	35	3265	17359											
	213.2	40	3322	17635											
	214	50	3381	17789											
RPS-N 240	242	25	3919	23387	600	100	35	465	490	560	520	M12	φ25× φ38×40	22.5°×16	
	242.4	30	3931	23089											
	242.8	35	3994	23350											
	243.2	40	3808	21497											
	244	50	3860	21539											

单位Unit : mm

型号 Model	轴径D1 Shaft diameter	导程 Lead	基本额定载荷 (kN) Basic rated load		丝杆尺寸Screw size			螺母尺寸Nut size	
			动态载荷Dynamic load	静态载荷Static load	推杆最大直径dmax Maximum diameter of push rod	最大行程 Maximum stroke	组合锯长度Ls Combination roller length	螺母内径D0 Nut inner diameter	螺母最小外径D Minimum outer diameter of nut
RPI-X 10	10	2	13.4	20.8	8	28	31	17	24
RPI-X 12	12	1	13.9	26.8	10	34	31	20	26
		2	16.5	27.1		29			
RPI-X 13	13	1	16.1	31.5	11	40	31	25	30
		2	17.9	28.9		35			
RPI-X 15	15	1	23.7	56	13	51	35	25	32
		2	27.7	55.2		46			
		3	29.1	51.5		41			
RPI-X 18	18	1	30.6	76.8	16	70	50	30	38
		2	36.2	77.2		65			
		3	37.8	70.9		60			
		4	36.6	61.2		55			
		5	37.8	59.2		50			
		6	40.4	61.9		45			
RPI-X 21	21	2	54.5	103	18	84	56	35	45
		3	59.6	105		79			
		4	63.3	104		74			
		5	61.5	91.8		69			
		6	64.2	92.2		64			
RPI-X 24	24	2	62.8	113	21	210	65	40	50
		3	67.2	118		170			
		4	72	119		110			
		5	75.3	118		80			
		6	74.5	109		75			
RPI-X 27	27	2	81.2	177.2	24	175	55	45	55
		3	90.3	179.7					
		4	94.8	174.3					
		5	99	173.6					
RPI-X 30	30	2	97.2	224.1	27	175	55	50	60
		3	107.3	224.7					
		4	113.6	220.8					
		5	119.2	219.2					
		6	126.9	226.5					
RPI-X 36	36	2	86.9	215.4	33	162	68	54	64
		3	95.4	214					
		4	101.8	212.6					
		5	106.2	209.2					
		6	111	209.8					
		7	117.8	218.1					

附录 Appendixes

单位Unit: mm

型号 Model	轴径D1 Shaft diameter	导程 Lead	基本额定载荷 (kN) Basic rated load		丝杆尺寸Screw size			螺母尺寸Nut size	
			动态载荷Dynamic load	静态载荷Static load	推杆最大直径dmax Maximum diameter of push rod	最大行程 Maximum stroke	组合辊长度Ls Combination roller length	螺母内径D0 Nut inner diameter	螺母最小外径D Minimum outer diameter of nut
RPI-X 39	39	3	159.5	372	36	158	72	65	75
		4	170.3	369.9					
		5	178.9	367.8					
		6	186.1	365.7					
		7	194.1	369.4					
		8	201.4	373.1					
RPI-X 44	44	3	135.1	338.4	40	140	90	66	76
		4	145.6	341.5					
		5	153.1	339.8					
		6	157.9	333.2					
		7	166.8	343.6					
		8	169.2	334.6					
		9	171.8	328					
RPI-X 48	48	3	218.7	556.2	44	135	95	80	90
		4	234.6	557.2					
		5	246.8	554.6					
		6	259	559.1					
		7	262.4	538.7					
		8	277.7	561.1					
		9	285.7	562.1					
		10	285	541.7					
RPI-X 51	51	3	263.1	725.9	47	105	125	85	99
		4	279.5	715.2					
		5	298.1	727.9					
		6	308.5	717.3					
		7	320.2	718.3					
		8	326.2	703.9					
		9	340.3	720.4					
		10	346.6	713.7					
RPI-X 56	56	4	219.6	584.9	52	118	112	84	98
		5	231.9	585.8					
		6	240.8	580.4					
		7	250.8	584.4					
		8	256.5	575.9					
		9	260.4	564.4					
		10	274.4	590					
		12	279	566.9					
RPI-X 60	60	4	248.6	689.4	56	115	115	90	108
		5	259.3	676.9					
		6	272.7	684.5					
		7	281.4	678.7					
		8	290.7	679.7					
		9	298.2	677.2					
		10	306.9	681.5					
		12	316.7	669.9					
RPI-X 70	70	6	260.3	722.7	65	90	140	98	120
		8	276.2	712.1					
		10	291.6	713.8					
		12	308	727.8					
		14	317.9	723.3					
		15	317.2	702.6					

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