

巨力扁线关节电机

定制开发参考表

扁线电机性能优势明显，可提升纯铜槽满率60-90%，额定扭矩20-50%，峰值扭矩30-60%

*由于扁线与圆线电机在工艺设计及需求场景上存在差异，不同外径大小提升数值略有不同，具体性能表现应以实际测试为准

电机型号	母线电压 (V)	定子外径 (mm)	定子内径 (mm)	铁芯长度 (mm)	额定相电流 (A)	额定转速 (RPM)	额定扭矩 (N·m)	额定功率 (W)	峰值相电流 (A)	峰值转速 (RPM)	峰值扭矩 (N·m)	峰值功率 (W)	空载转速 (RPM)
JL5010A68	48	50	37	10	6.5	6800	0.42	299	21	3800	1.3	517	8000
JL6006A95	48	60	44	6	5.5	9500	0.29	289	23	7000	0.85	623	15000
JL6006A70	48	60	44	6	5	7000	0.24	176	16	5400	0.68	385	9000
JL7012A40	48	70	50	12	10	4000	1.1	461	40	3000	3.2	1005	4800
JL7020A25	48	70	50	20	11	2500	2.1	550	40	1800	4.8	905	2900
JL8507A60	48	85	62	7	15	6000	1	628	75	5000	3.4	1780	7200
JL8516A27	48	85	62	16	15	2700	2.4	679	75	2000	7.8	1634	3300
JL8525A16	48	85	62	25	15	1600	3.5	586	75	1000	12.5	1309	2000
JL9413A30	48	94	68	13	16	3000	2.4	754	37	2500	4.0	1047	3600
JL9416B32	72	94	68	16	16	3200	2.4	804	110	2000	10.8	2262	4000
JL9424B33	72	94	68	24	18	3300	3.7	1279	120	2000	16	3351	3800
JL9432A38	48	94	68	32	24	3800	4.2	1671	135	2600	14.9	4057	4300
JL10524B25	72	105	75	24	18	2500	4.8	1257	130	1500	22	3456	2900
JL11527A37	48	115	90	27	56	3700	7.4	2867	320	2800	28	8210	4000
JL11554A17	48	115	90	54	56	1700	14.2	2528	320	1200	57	7163	2000

*数据仅供参考

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JULI Flat-Wire Frameless Motor

Customization Reference Table

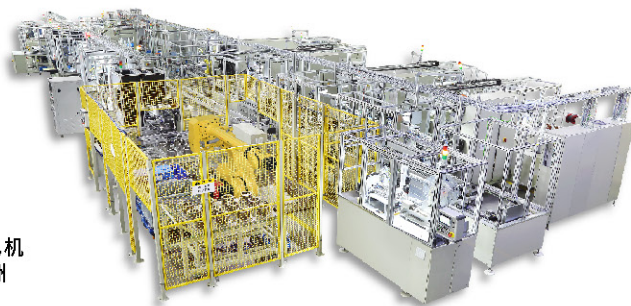
Flat-wire motors are able to increase pure copper slot fill rate by 60-90%, rated torque by 20-50%, and peak torque by 30-60%

*Performance gains vary with outside diameter, as flat-wire and round-wire motors differ in DFM and application. Actual test results prevail

Flat-Wire Series	Bus Voltage (VDC)	Outside Diameter (mm)	Inside Diameter (mm)	Stack Length (mm)	Rated Phase Current (A)	Rated Speed (RPM)	Rated Torque (N·m)	Rated Power (W)	Peak Phase Current (A)	Peak Speed (RPM)	Peak Torque (N·m)	Peak Power (W)	No-load Speed (RPM)
JL5010A68	48	50	37	10	6.5	6800	0.42	299	21	3800	1.3	517	8000
JL6006A95	48	60	44	6	5.5	9500	0.29	289	23	7000	0.85	623	15000
JL6006A70	48	60	44	6	5	7000	0.24	176	16	5400	0.68	385	9000
JL7012A40	48	70	50	12	10	4000	1.1	461	40	3000	3.2	1005	4800
JL7020A25	48	70	50	20	11	2500	2.1	550	40	1800	4.8	905	2900
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JL8516A27	48	85	62	16	15	2700	2.4	679	75	2000	7.8	1634	3300
JL8525A16	48	85	62	25	15	1600	3.5	586	75	1000	12.5	1309	2000
JL9413A30	48	94	68	13	16	3000	2.4	754	37	2500	4.0	1047	3600
JL9416B32	72	94	68	16	16	3200	2.4	804	110	2000	10.8	2262	4000
JL9424B33	72	94	68	24	18	3300	3.7	1279	120	2000	16	3351	3800
JL9432A38	48	94	68	32	24	3800	4.2	1671	135	2600	14.9	4057	4300
JL10524B25	72	105	75	24	18	2500	4.8	1257	130	1500	22	3456	2900
JL11527A37	48	115	90	27	56	3700	7.4	2867	320	2800	28	8210	4000
JL11554A17	48	115	90	54	56	1700	14.2	2528	320	1200	57	7163	2000

*Data is for reference only

巨力自动化 1989 年创立，深耕电机领域 37 年。立足新能源汽车扁线电机装备优势，跨界布局人形机器人专用电机技术平台，已实现从“设备供应商”到“全流程解决方案提供商”的升级，为客户提供定制化、多元化的专业服务



✓ 提供各类电机生产设备

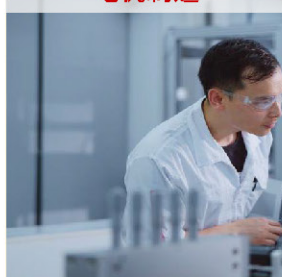


✓ 已为多家头部客户提供量产线



巨力深耕前沿机器人电机技术，覆盖从设计到高效稳定量产全链路

电机制造



设备产线



研发试制



定子生产



扁线关节电机



U Mini-Pin



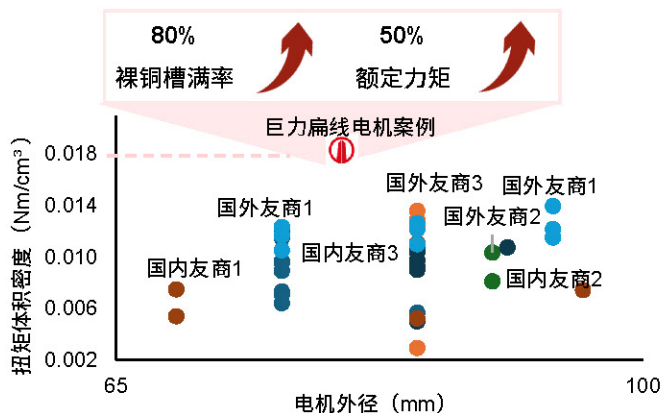
X-Pin



S-Winding

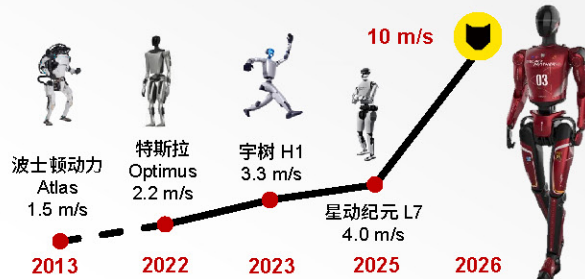


巨力扁线电机表现明显优于市面传统圆线电机，大幅提升机器人性能

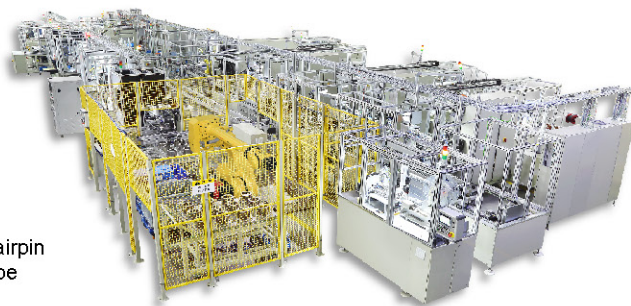
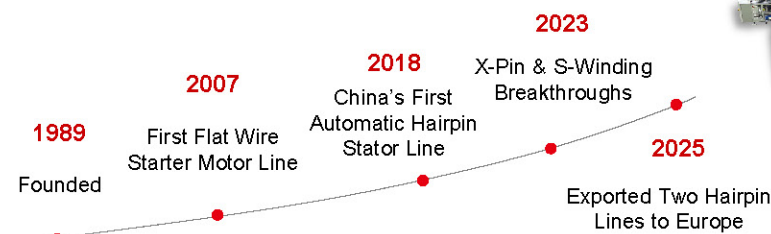


案例：巨力扁线电机助力全球最快人形机器人

镜识科技运用巨力扁线电机实现10m/s速度打破过往记录2倍有余



Founded in 1989, Juli Automation has 37 years of deep expertise in motor technology. Building on our leadership in EV flat-wire motor equipment, we have expanded into providing a dedicated motor development platform for humanoid robots. This transition from equipment supplier to comprehensive solution partner allows us to provide clients with tailored, diversified services.



✓ Provided Various Motor Lines



✓ Served Top-tier Global Clients



Deeply Involved in Cutting-edge Robot Motor, Covering from Design to Manufacture

Motor Production



Production Line

Sample Prototyping

Stator Production



Flat-Wire Frameless Motor



U Mini-Pin



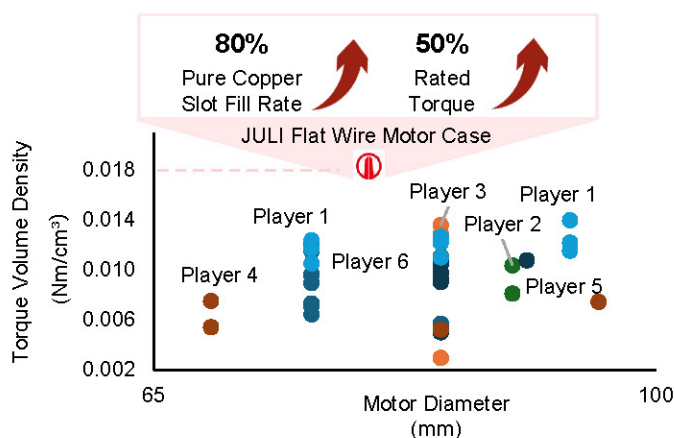
X-Pin



S-Winding



JULI Flat Wire Motors Outperform Traditional Motors, Improving Robot Performance



Source: Company Website, Product Manual

Case: JULI Motor Powers Fastest Humanoid

MirrorMe Tech Humanoid Doubled World Record with JULI Motor

