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2021年1月



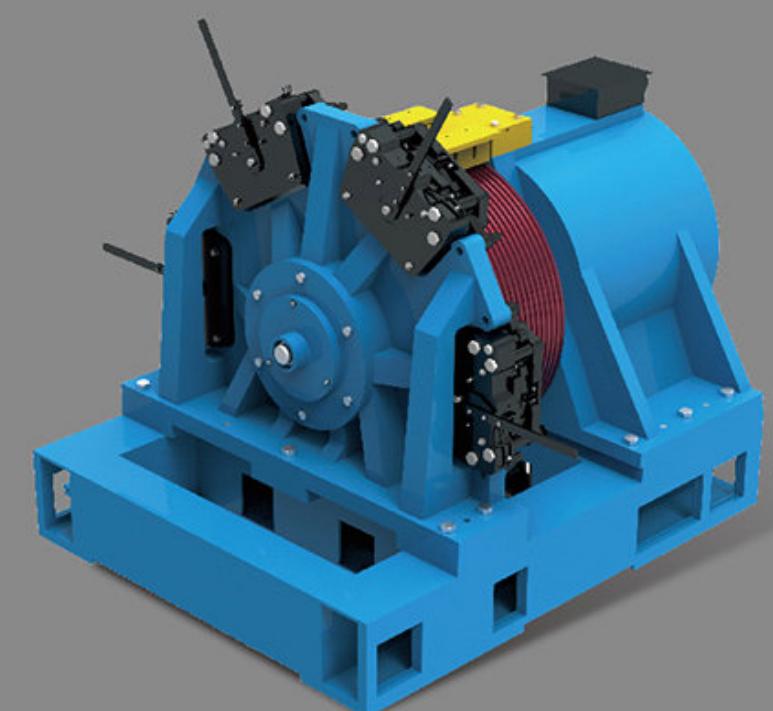
电梯驱动解决方案专家
Elevator drive solution expert

浙江弗尔德驱动科技有限公司

ZHEJIANG FURDER DRIVE TECHNOLOGY CO., LTD

永磁同步无齿轮曳引机

PERMANENT MAGNET SYNCHRONOUS GEARLESS TRACTION MACHINE



扫描关注
弗尔德官方网站

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www.furderdriving.com



COMPANY PROFILE

公司简介

浙江弗尔德驱动科技有限公司是一家集研发、设计、生产、销售及售后服务于一体的专业型永磁同步无齿轮曳引机制造企业。公司自成立以来，秉承“追求卓越，精益求精”的企业精神，不断致力于把欧洲最先进的永磁驱动制造技术和中国人的智慧与勤奋相结合，以精品、服务、本地化三大发展战略为宗旨，坚持高起点、高品质的发展思路。

Zhejiang Furder Drive Technology Co., Ltd is a fully integrated manufacturer of permanent magnet synchronous gearless traction machine with core activites covering from R&D to manufacturing, selling and since its incorporation, the company has adhered to the concept of "Excellence and Perfection Pursuit", by combining advance European R&D and manufacturing techniques with Chinesse intelligence, diligence and drive for the provision of quality products and services to its clients.

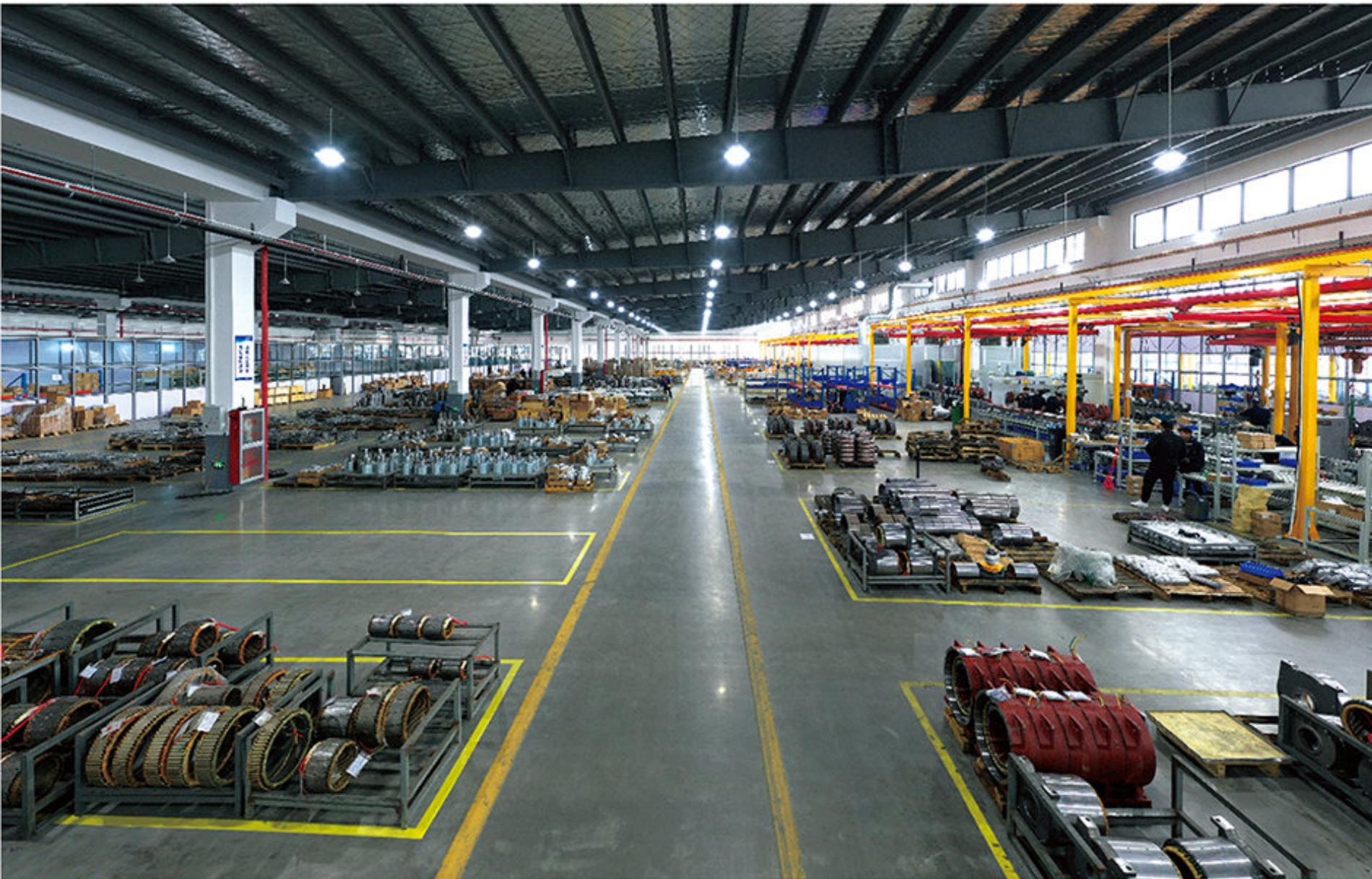
公司于2014年6月份，与欧洲顶尖的曳引机公司强强联手，形成技术资源共享的战略合作伙伴关系；产品设计采用欧洲先进的电磁设计方案，通过3D模拟及有限元分析软件，将曳引机电磁系统、机械系统及控制系统匹配中的不稳定因素降到最低，有效的提高了曳引机的运行效率和舒适感。

In June 2014, Zhejiang Furder Drive Technology Co., Ltd, formed a strategic partnership with Kron Brake Traction Innovation aimed to share technical resources. As a result, advanced European electromagnetic designed schemes have been incorporated into our products with the help of 3D simulation and finite element analysis software. In this way, unstable factors in the motor's electromagnetic or in the mechanical and control systems can be minimised thus improving the operating efficiency and control of the machine.

目前公司生产的曳引机产品涵盖高速梯、医用梯、特殊环境下使用的高防护梯、货梯、小机房、无机房、家用梯、钢带主机等几大类型，公司产品全系列紧凑型内转子结构，体积小、重量轻、安装维护方便。振动小、噪声低、防护等级高、制动器免于维护等特点；客户现场使用安全、舒适、节能、环保。

Zhejiang Furder Drive Technology Co., Ltd produces motors for a great variety of end uses including high speed, medical, home, high protection and good hauling elevators that can be used in machine-room or machine-roomless installations. Our motors can also use a variety of traction schemes from steel to belt ropes, with compact inner rotor structures. Our motors are maintenance free, small sized, light and easy to install. The product have no noise and have barely no vibration at all with a high protection grade. Customers will enjoy a safe, comfortable, energy-consciuions and environment friendly motor at their site.





- 端盖部件全自动加工中心产线
- 机座部件全自动加工专机产线
- 制动器全自动加工中心产线
- 转子部件多功能加工专机
- 主机综合性能检测中心
- End cap parts CNC machining center production line
- Machine parts CNC machine production line
- Brake CNC machining center production line
- Rotor parts multi-Function special Machine
- Traction Machine comprehensive performance testing center

FURDER PRODUCT ADVANTAGE

弗尔德品质保障优势

「融合精益生产、优化产线结构」弗尔德人一直在努力，先已拥有金加工产线，定子部件产线，制动器产线及主机组装线，这些产线通过合理的工序整合，精湛的生产工艺，规范的检测程序，科学的管理模式，不断完善着「科技铸就品质、创新驱动未来」的企业价值观。

"Integrate lean production, optimize product structure" the people of FURDER have been working hard, now they have the production line of metal processing, stator parts, brake and assembly line of whole machine. These production lines are constantly improving the company's values of "Technology casts quality, innovation drives the future" through reasonable working procedure, exquisite production technology, standardized inspection procedures, and scientific management models.



TECHNOLOGY PARTNER
KRON BRAKE AND TRACTION
INNOVATION(SPAIN)

技术合作伙伴：
西班牙科隆电机有限公司

弗尔德与欧洲电梯行业的曳引系统领先供应商——西班牙科隆电机有限公司建立了技术合作伙伴关系，双方在包括研发合作、技术整合与技术支持等方面都有着深入合作。

FURDER has established technical cooperation partnership with leader supplier of traction system in European elevator industry—Kron brake and traction innovation (spain) and they have deep cooperation in R&D, technical integration and support and others.



德国建筑博物馆—法兰克福
German Architecture Museum-Frankfurt



德国海尔布隆试验科学中心
German Heilbronn Experiment Science Center



法兰克福机场
Frankfurt Airport



威斯巴登议会大楼
Wiesbaden Parliament Building



斯图加特大学
University of Stuttgart

西班牙科隆电机有限公司是一家以优质产品和竞争性价格驱动产业发展的曳引系统生产商。自1980年成立以来，在曳引系统的创新革命中发挥了突出的作用。公司历时10年时间与比利时贝尔卡特集团共同研发的创新解决方案——基于同步无齿轮牵引电机的使用和嵌入式绳，目前在全球已拥有1000多个安装案例。产品上不断的改进与创新使科隆公司相对其他欧洲曳引机制造商，拥有了竞争性的优势。与贝尔卡特集团的排他性协议，使这个优势为科隆公司独有。这个解决方案，也使科隆公司成为欧洲电梯行业的曳引系统领先供应商。

Kron brake and traction innovation (spain) is a traction system manufacturer driving its industrial development with quality products and competitive price. Since establishment in 1980, the company has played prominent role in revolutionary innovation of traction system. The creative solution researched and developed by Cologne company for ten years with Belgium Bell Carter Group, which is based on using synchronous gearless traction motor and embedded rope, has been for over 1000 installations all over the world. By continuously improving and innovating products, Cologne company is competitive as compared with the other European tractor manufacturers. With the exclusivity agreement with Belgium Bell Carter Group, Cologne possesses this solution exclusively, which makes it the leading supplier of traction system in European elevator industry.

INDEPENDENT INTELLECTUAL PROPERTY RIGHTS AND HONOURS

自主知识产权及荣誉

浙江弗尔德驱动科技有限公司凭借优秀的制造工艺,完善的管理体系,健全的品控机制,赢得国内外市场的一致好评,获得多项行业荣誉。

高起点,高定位,融合弗尔德驱动与西班牙科隆电机的先进技术,在高速梯的应用领域取得了显著成就,研发出的10m/s高速梯主机获得了国家检测机构认证。

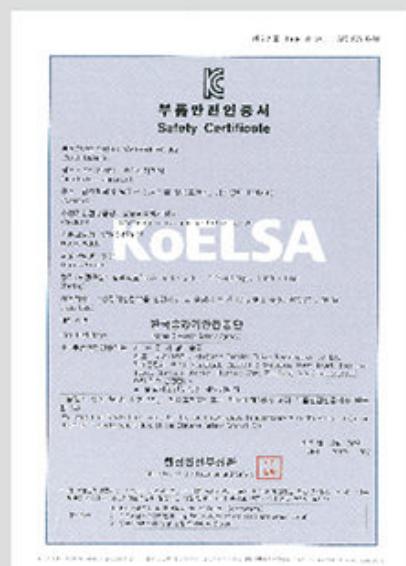
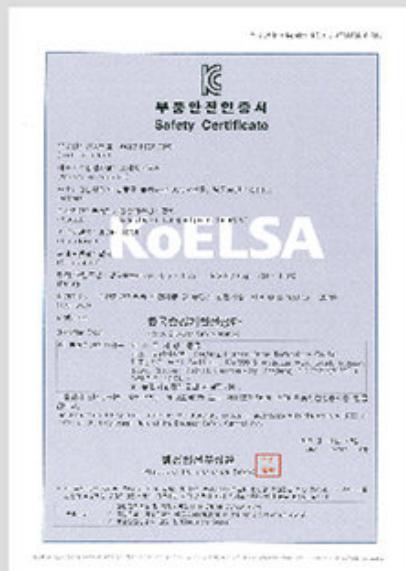
Zhejiang FURDER Drive Technology Co., Ltd. with excellent manufacturing technology, perfect management system and sound quality control mechanism, has won high praise from both domestic and foreign markets, and has won many industry accolades.

High starting point, high positioning. Incorporating the advanced technology of Furder Drive and Kron Motor(Spain), remarkable achievements have been made in the field of application of high speed elevator. The developed 10m/s high speed elevator traction machine has been certified by the national testing organization.



浙江省高新技术企业

Zhejiang High Science and Technology Enterprise



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SELECTION TABLE

选型表

曳引比 Roping 1:1	额定载重 Rated Load							
	KG							
	320	400	500	800	900	1500	1600	2000
曳引轮 Pulley mm	100	0.4m/s-FRD10GD						
	480		1.0m/s-FRD40W					
	710				1.0m/s-FRD48			
	820						8.0m/s-FRD71	
								10.0m/s-FRD82

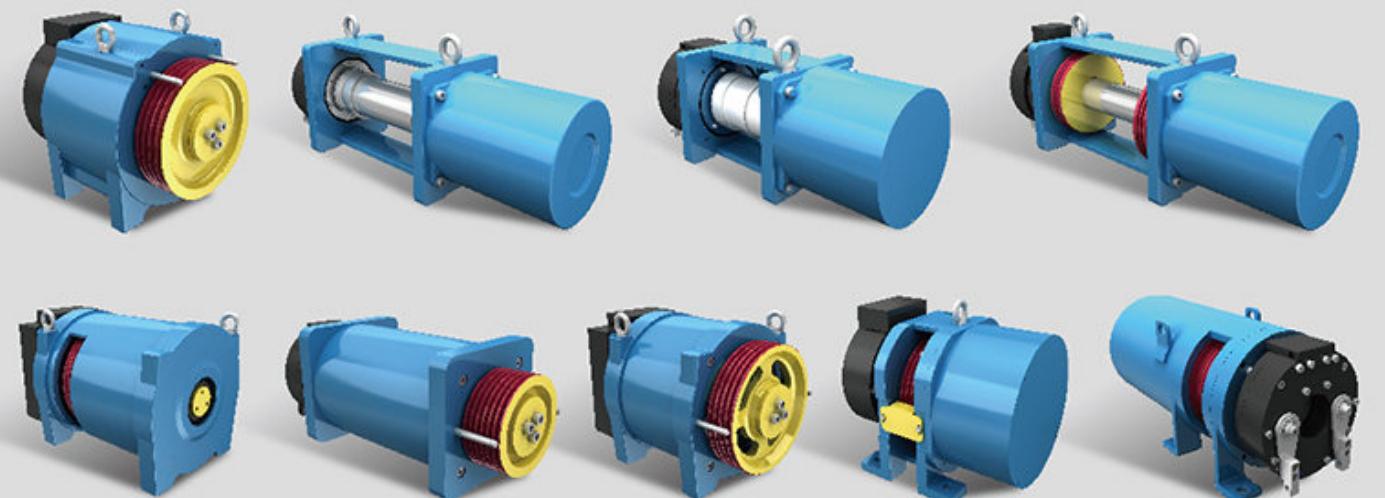
曳引比 Roping 2:1	额定载重 Rated Load															
	KG															
	250	320	400	450	630	800	1000	1050	1150	1250	1350	1600	1800	2000	2500	3000
曳引轮 Pulley mm	100	0.4m/s-FRD10G														
	150	0.4m/s-FRD10GD														
	160	0.4m/s-FRD16M														
	180	0.4m/s-FRD18S														
	200		0.4m/s-FRD21G/FRD21M/FRD21A													
	210		1.0m/s-FRD21E													
	240		0.4m/s-FRD21M													
	320		1.0m/s-FRD21E													
	350		1.75m/s-FRD32G													
	400		1.75m/s-FRD40W													
	450		2.5m/s-FRD40D													
	480		1.75m/s-FRD40T													
	520		2.5m/s-FRD40E													
			3.0m/s-FRD45D													
			3.0m/s-FRD48													
			3.0m/s-FRD48													
			4m/s-FRD52A													
			2.0m/s-FRD52D													

HOME ELEVATOR TRACTION MACHINE SERIES

别墅梯系列主机

该系列主机广泛应用于别墅梯、餐梯、小载重无机房客梯配置

This series of traction machine are widely used in home elevator, restaurant elevator small load machine room-less passenger elevator.



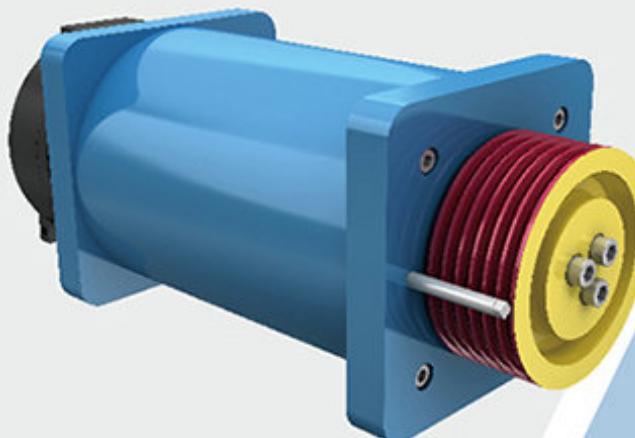
产品设计优势

Product design advantage

- 采用欧洲研发中心的结构设计方案，体积小、重量轻、结构紧凑，性能优越。
- 采用欧洲研发中心的电磁设计方案（极对数12），启动转矩大、电流小，运行平稳。
- 运行时振动小、噪音低于45dB(行业标准65dB)、舒适感好。
- 接线装置采用航空插件，充分减低主机高度，有效节省建筑空间，使安装维护更方便。
- 轴承采用自密封轴承，在正常使用情况下，在轴承使用寿命内免于维护。
- 制动器采用欧洲先进的设计方案，在正常使用情况下，无需调节制动器气隙。
- Structure design from European R&D Center, small size, light weight, compact structure and superior performance.
- Electromagnetic design from European R&D Center, large starting torque, small current, running smoothly.
- Low vibration and noise below 45dB(industry standard 65dB),good comfort.
- The connection device adopts aeronautical plug, to reduce the height of machine ,save building space and make installation and maintenance more convenient.
- Adopt two balance full sealed bears, free maintain in warranty time.
- Brake with advance European design ,free air gap adjustment.



FRD15 别墅梯系列主机 (320~450KG)



电源电压(Supply voltage): AC380V/220V

曳引比(Traction ratio): 2:1

防护等级(Protection grade): IP41

梯速(Elevator speed): 0.4m/s (梯速可非标定制)

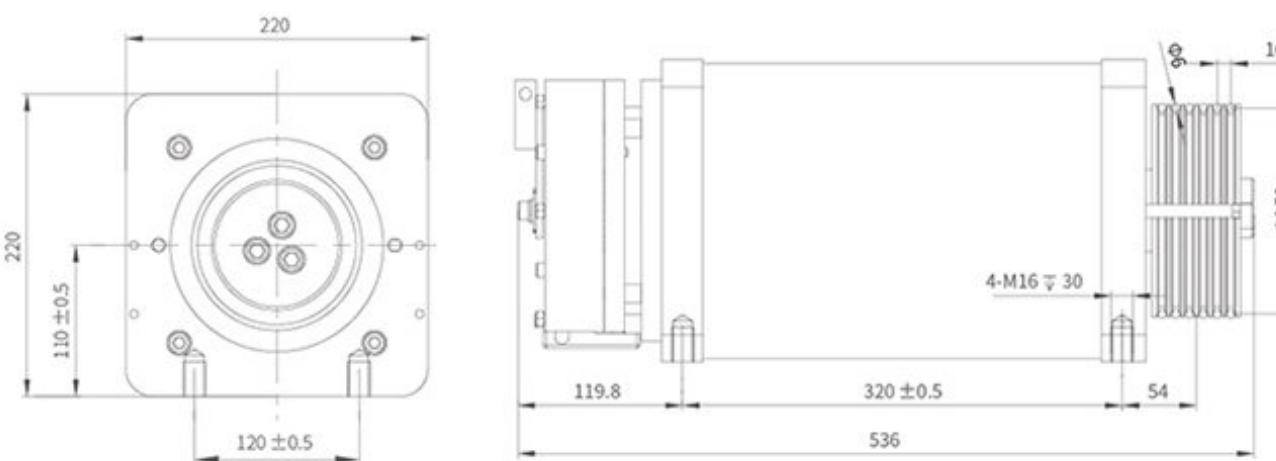
额定载重(Rated capacity): 320kg~450kg

制动器(Brake): DC110V, 1.8A

最大轴静载(The maximum axial load): 2500kg

工作制(Duty type): S5-25%

产品尺寸图
PRODUCT DIMENSION DIAGRAM



FRD15 (2:1) 系列永磁同步无齿轮曳引机配置表

FRD15 (SUSPENSION 2:1) SERIES GEARLESS TRACTION MACHINE SELECT TABLE

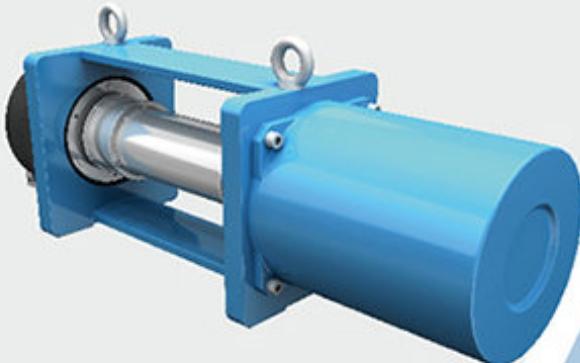
产品型号 Model	电梯参数				曳引轮规格				电机参数					
	载重 Load (kg)	速度 Speed (m/s)	推荐高度 Height (m)	转矩 Torque (Nm)	曳引轮直径 Sheave Dia. (mm)	钢丝绳直径 Rope Dia. (mm)	槽数 Groove (pcs)	槽间距 Distance Between Grooves	功率 Power (kw)	额定电压 Rated Voltage (V)	额定电流 Rated Current (A)	额定频率 Frequency (Hz)	额定转速 Rated Speed (rpm)	极对数 Pole Pairs
FRD15-0320-040	320	0.4	≤25	80					0.9		5.5			8
FRD15-0400-040	400	0.4	≤25	100	150	6	6	10	1.1	220/380	6.5	13.6	102	8
FRD15-0450-040	450	0.4	≤25	112					1.2		7.5			8

注:数据如有改动,恕不另行通知。
Note: Data modification will be done without notice, please understand.

FRD10G

别墅梯系列主机

(320~450KG)



电源电压(Supply voltage): AC380V/220V

曳引比(Traction ratio): 2:1

防护等级(Protection grade): IP41

梯速(Elevator speed): 0.4m/s

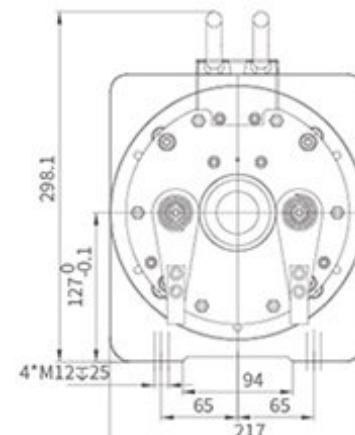
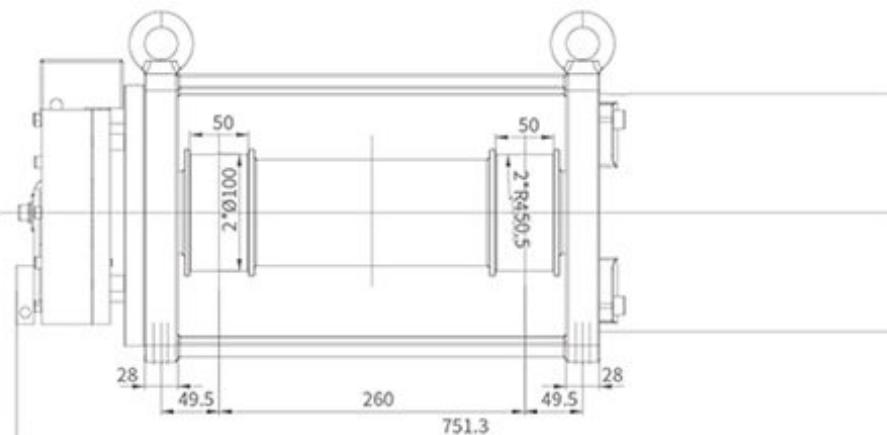
额定载重(Rated capacity): 320kg~450kg

制动器(Brake): DC110V, 1.8A

最大轴静载(The maximum axial load): 2500kg

工作制(Duty type): S5-25%

产品尺寸图
PRODUCT DIMENSION DIAGRAM



FRD10G (2:1) 系列永磁同步无齿轮曳引机配置表

FRD10G (SUSPENSION 2:1) SERIES GEARLESS TRACTION MACHINE SELECT TABLE

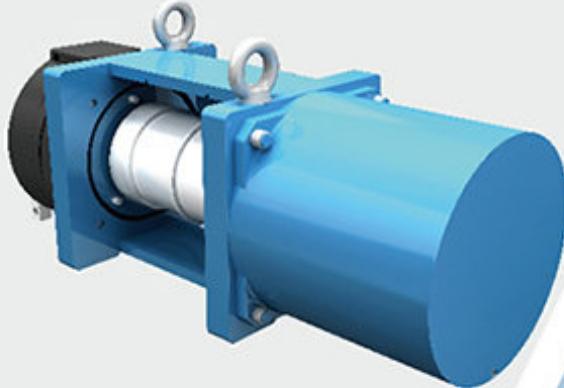
产品型号 Model	电梯参数			曳引轮规格				电机参数						
	载重 Load (kg)	速度 Speed (m/s)	推荐高度 Height (m)	转矩 Torque (Nm)	钢带轮直径 Sheave Dic. (mm)	工作轮轴圆弧 Wheel Dia. (mm)	槽数 Groove (pcs)	槽间距 Distance Between Grooves	功率 Power (kw)	额定电压 Rated Voltage (V)	额定电流 Current (A)	额定频率 Frequency (Hz)	额定转速 Rated Speed (rpm)	极对数 Pole Pairs
FRD10G-0320-040	320			54					0.9		5.2			
FRD10G-0400-040	400			67	100	R450.5	2	260	1.1	220	6.5			
FRD10G-0450-040	450			76					1.2		7.4			
FRD10G-0320-040	320	0.40	≤ 25	54					0.9		3		20.4	153
FRD10G-0400-040	400			67	100	R450.5	2	260	1.1	380	3.8			8
FRD10G-0450-040	450			76					1.2		4.3			

注:数据如有改动,恕不另行通知。
Note: Data modification will be done without notice, please understand.

FRD10GD

别墅梯系列主机

(320~450KG)



电源电压(Supply voltage): AC380V/220V

曳引比(Traction ratio): 2:1/1:1

防护等级(Protection grade): IP41

梯速(Elevator speed): 0.4m/s

额定载重(Rated capacity): 320kg~450kg

制动器(Brake): DC110V, 1.8A/1.5A

最大轴静载(The maximum axial load): 2500kg

工作制(Duty type): S5-25%

FURDER
driving expert

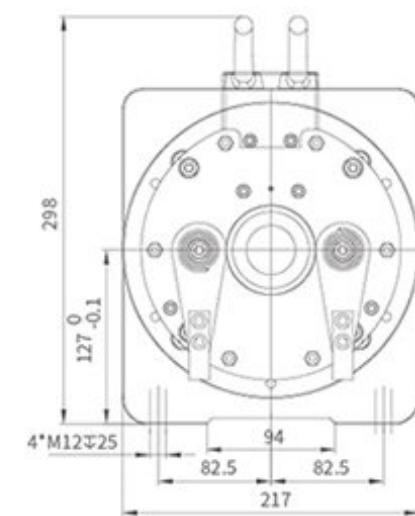
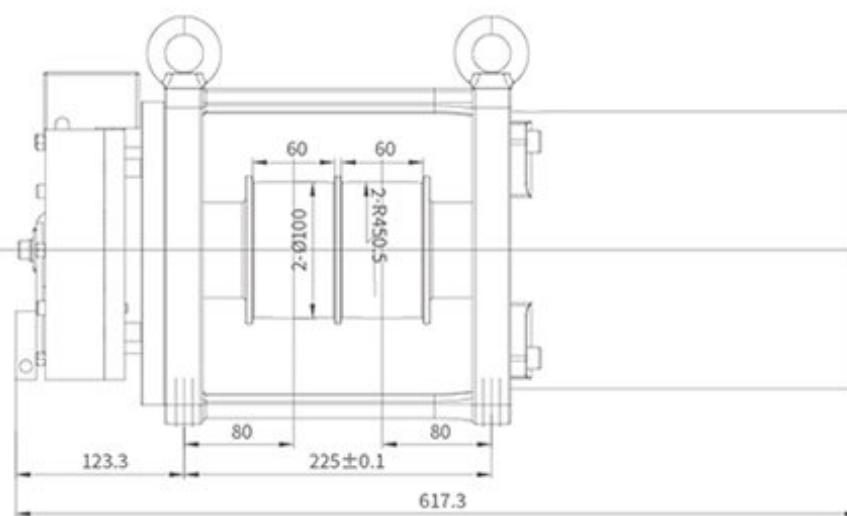
FRD10GD (2:1) 系列永磁同步无齿轮曳引机配置表

FRD10GD (SUSPENSION 2:1) SERIES GEARLESS TRACTION MACHINE SELECT TABLE

产品型号 Model	电梯参数				曳引轮规格				电机参数					
	载重 Load (kg)	速度 Speed (m/s)	推荐高度 Height (m)	转矩 Torque (Nm)	钢带轮直径 Sheave Dic. (mm)	工作轮轴圆弧 Wheel Dia. (mm)	槽数 Groove (pcs)	槽间距 Distance Between Grooves	功率 Power (kw)	额定电压 Rated Voltage (V)	额定电流 Current (A)	额定频率 Frequency (Hz)	额定转速 Rated Speed (rpm)	极对数 Pole Pairs
FRD10GD-0320-040	320			54					0.9		5.2			
FRD10GD-0400-040	400	0.4	≤ 25	67	100	R450.5	2	65	1.1	220	6.5	20.4	153	8
FRD10GD-0450-040	450			75					1.2		7.4			
FRD10GD-0320-040	320			54					0.9		3			
FRD10GD-0400-040	400	0.4	≤ 25	67	100	R450.5	2	65	1.1	380	3.8	20.4	153	8
FRD10GD-0450-040	450			75					1.2		4.3			

产品尺寸图

PRODUCT DIMENSION DIAGRAM



FRD10GD (1:1) 系列永磁同步无齿轮曳引机配置表

FRD10GD (SUSPENSION 1:1) SERIES GEARLESS TRACTION MACHINE SELECT TABLE

产品型号 Model	电梯参数				曳引轮规格				电机参数					
	载重 Load (kg)	速度 Speed (m/s)	推荐高度 Height (m)	转矩 Torque (Nm)	钢带轮直径 Sheave Dic. (mm)	工作轮轴圆弧 Wheel Dia. (mm)	槽数 Groove (pcs)	槽间距 Distance Between Grooves	功率 Power (kw)	额定电压 Rated Voltage (V)	额定电流 Current (A)	额定频率 Frequency (Hz)	额定转速 Rated Speed (rpm)	极对数 Pole Pairs
FRD10GD-0320-040	320	0.4	≤ 25	107					0.9		6.8			
FRD10GD-0400-040	400			134					1.1		8.3			
FRD10GD-0320-040	320			107					0.9		3.9			
FRD10GD-0400-040	400	0.4	≤ 25	134	100	R450.5	2	65	1.1	380	4.8	10.2	76	8

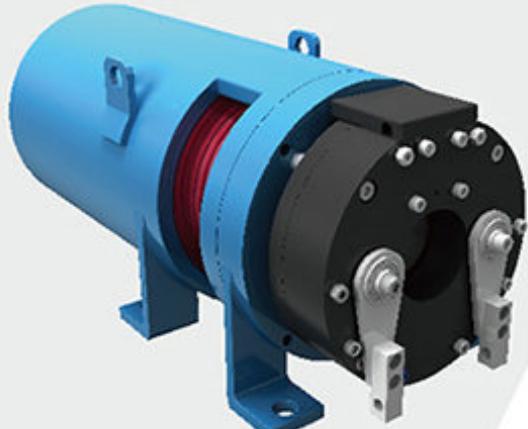
注:数据如有改动,恕不另行通知。

Note: Data modification will be done without notice, please understand.

FRD16M

别墅梯系列主机

(320~450KG)



电源电压(Supply voltage): AC380V/220V

曳引比(Traction ratio): 2:1

防护等级(Protection grade): IP41

梯速(Elevator speed): 0.4m/s

额定载重(Rated capacity): 320kg~450kg

制动器(Brake): DC110V, 1.8A

最大轴静载(The maximum axial load): 2500kg

工作制(Duty type): S5-25%

FRD16M (2:1) 系列永磁同步无齿轮曳引机配置表

FRD16M (SUSPENSION 2:1) SERIES GEARLESS TRACTION MACHINE SELECT TABLE

产品型号 Model	电梯参数				曳引轮规格				电机参数					
	载重 Load (kg)	速度 Speed (m/s)	推荐高度 Height (m)	转矩 Torque (Nm)	曳引轮直径 Sheave Dia. (mm)	钢丝绳直径 Rope Dia. (mm)	槽数 Groove (pcs)	槽间距 Distance Between Grooves	功率 Power (kw)	额定电压 Rated Voltage (V)	额定电流 Current (A)	额定频率 Frequency (Hz)	额定转速 Rated Speed (rpm)	极对数 Pole Pairs
FRD16M-0320-040	320			86					0.9		5			
FRD16M-0400-040	400	0.4	≤ 25	107	160	6	4	10	1.1	380/220	6	12.7	96	8
FRD16M-0450-040	450			120					1.2		7			

产品尺寸图

PRODUCT DIMENSION DIAGRAM

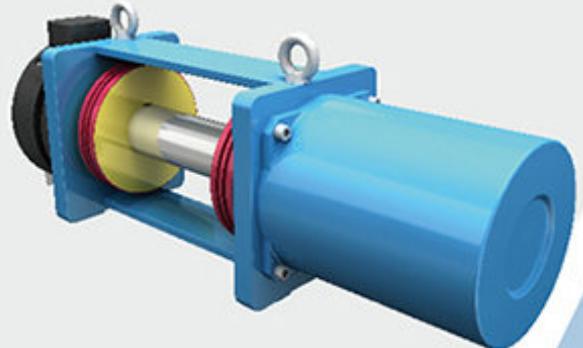


注:数据如有改动,恕不另行通知。
Note: Data modification will be done without notice, please understand.

FRD18S

别墅梯系列主机

(320~450KG)



电源电压(Supply voltage): AC380V/220V

曳引比(Traction ratio): 2:1

防护等级(Protection grade): IP41

梯速(Elevator speed): 0.4m/s

额定载重(Rated capacity): 320kg~450kg

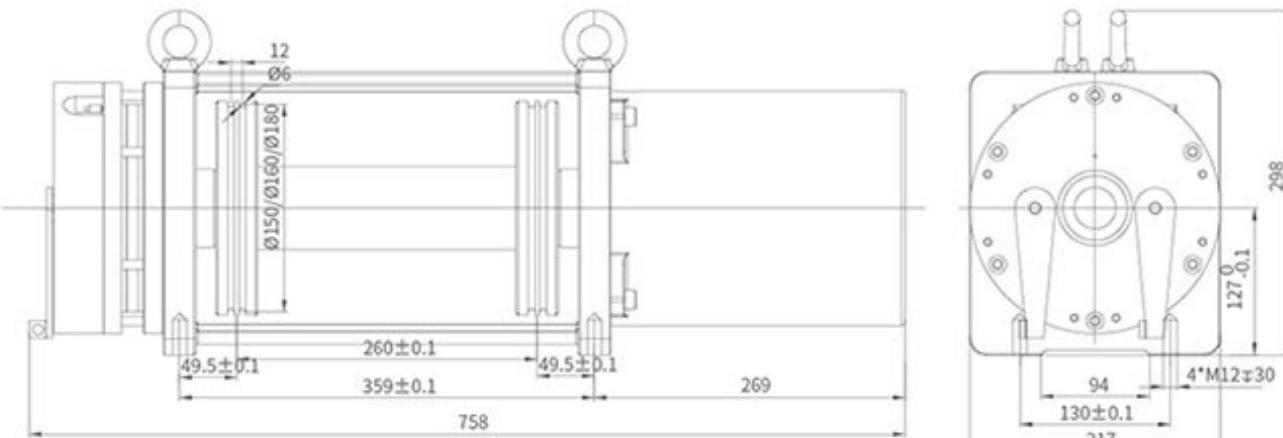
制动器(Brake): DC110V, 1.5A

最大轴静载(The maximum axial load): 2500kg

工作制(Duty type): S5-25%

产品尺寸图

PRODUCT DIMENSION DIAGRAM



FRD18S (2:1) 系列永磁同步无齿轮曳引机配置表

FRD18S (SUSPENSION 2:1) SERIES GEARLESS TRACTION MACHINE SELECT TABLE

产品型号 Model	电梯参数				曳引轮规格				电机参数					
	载重 Load (kg)	速度 Speed (m/s)	推荐高度 Height (m)	转矩 Torque (Nm)	曳引轮直径 Sheave Dia. (mm)	钢丝绳直径 Rope Dia. (mm)	槽数 Groove (pcs)	槽间距 Distance Between Grooves	功率 Power (kw)	额定电压 Rated Voltage (V)	额定电流 Current (A)	额定频率 Frequency (Hz)	额定转速 Rated Speed (rpm)	极对数 Pole Pairs
FRD18S-0320-040	320			97					0.9		6	11.3	85	8
FRD18S-0400-040	400			121					1.1	220	7	11.3	85	8
FRD18S-0450-040	450			136					1.2		8	11.3	85	8
FRD18S-0320-040	320	0.4	≤ 25	97	180	6	2X2	10	0.9		4	11.3	85	8
FRD18S-0400-040	400			121					1.1	380	4	11.3	85	8
FRD18S-0450-040	450			136					1.2		5	11.3	85	8

注:数据如有改动,恕不另行通知。

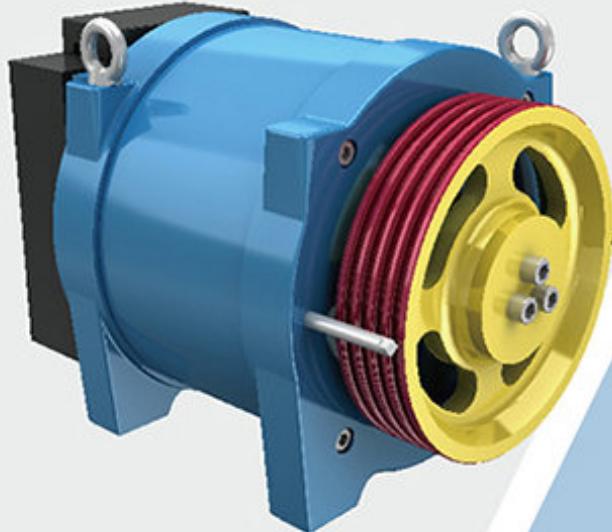
Note: Data modification will be done without notice, please understand.

FRD21E

别墅梯系列主机

(320~630KG)

FURDER
driving expert



电源电压(Supply voltage): AC380V/220V

曳引比(Traction ratio): 2:1

防护等级(Protection grade): IP41

梯速(Elevator speed): 0.4m/s (梯速可非标定制)

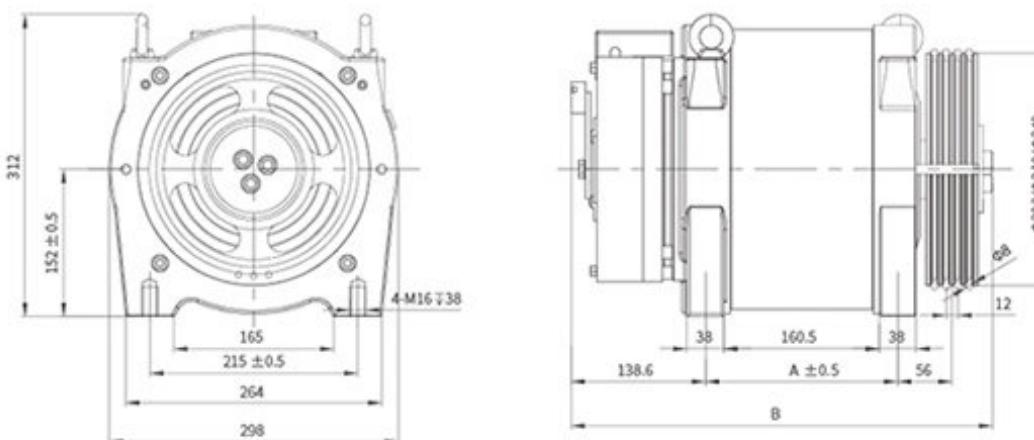
额定载重(Rated capacity): 320kg~630kg

制动器(Brake): DC110V, 2*1.5A

最大轴静载(The maximum axial load): 2500kg

工作制(Duty type): S5-25%

产品尺寸图
PRODUCT DIMENSION DIAGRAM



型号Model	A	B
FRD21E-0320		
FRD21E-0400	198.5	435
FRD21E-0450		
FRD21E-0630	258.5	495

FRD21E (2:1) 系列永磁同步无齿轮曳引机配置表

FRD21E (SUSPENSION 2:1) SERIES GEARLESS TRACTION MACHINE SELECT TABLE

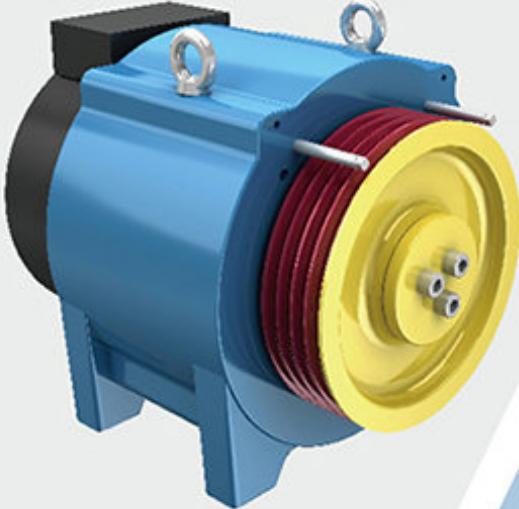
产品型号 Model	电梯参数				曳引轮规格				电机参数					
	载重 Load (kg)	速度 Speed (m/s)	推荐高度 Height (m)	转矩 Torque (Nm)	曳引轮直径 Sheave Dia. (mm)	调丝绳直径 Rope Dia. (mm)	槽数 Groove (pcs)	槽间距 Distance Between Grooves	功率 Power (kw)	额定电压 Rated Voltage (V)	额定电流 Rated Current (A)	额定频率 Frequency (Hz)	额定转速 Rated Speed (rpm)	极对数 Pole Pairs
FRD21E-0320-040	320			107			3		0.9		5			12
FRD21E-0400-040	400	0.4	≤ 25	137	200	8	4	12	1.1	220/380	6	15.3	76	12
FRD21E-0450-040	450			151			4		1.2		7			12
FRD21E-0320-040	320			113			3		0.9		5			12
FRD21E-0400-040	400			141			4		1.1		6			12
FRD21E-0450-040	450	0.4	≤ 25	158	210	8	4	12	1.2	220/380		14.6	73	12
FRD21E-0630-040	630			221			4		1.68		9			12
FRD21E-0320-040	320			129			3		0.9		6			12
FRD21E-0400-040	400			161			4		1.1		7			12
FRD21E-0450-040	450	0.4	≤ 25	181	240	8	4	12	1.2	220/380		12.7	64	12
FRD21E-0630-040	630			253			4		1.68		9			12

注:数据如有改动,恕不另行通知。
Note: Data modification will be done without notice, please understand.

FRD21G

别墅梯系列主机

(320~450KG)



电源电压(Supply voltage): AC380V/220V

曳引比(Traction ratio): 2:1

防护等级(Protection grade): IP41

梯速(Elevator speed):

0.4-1.0m/s (梯速可非标定制)

额定载重(Rated capacity): 320~450kg

制动器(Brake): DC110V, 1.5A

最大轴静载(The maximum axial load): 2500kg

工作制(Duty type): S5-25%

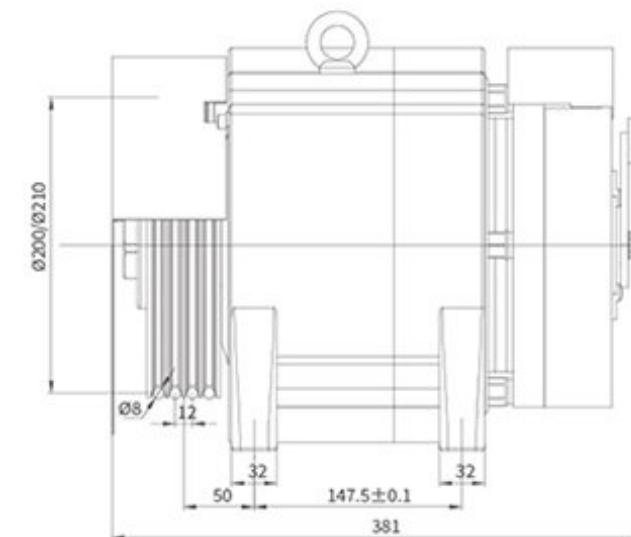
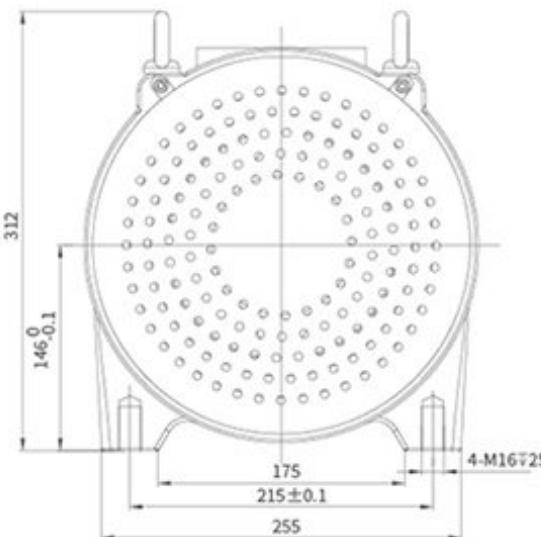
FURDER
driving expert

FRD21G (2:1) 系列永磁同步无齿轮曳引机配置表

FRD21G (SUSPGNSION 2:1) SERIES GEARLESS TRACTION MACHINE SELECT TABLE

产品型号 Model	电梯参数					曳引轮规格				电机参数					
	载重 Load (kg)	速度 Speed (m/s)	推荐高度 Height (m)	转矩 Torque (Nm)	曳引轮直径 Sheave Dia. (mm)	钢丝绳直径 Rope Dia. (mm)	槽数 Groove (pcs)	槽间距 Distance Between Grooves	功率 Power (kw)	额定电压 Rated Voltage (V)	额定电流 Rated Current (A)	额定频率 Rated Frequency (Hz)	额定转速 Rated Speed (rpm)	极对数 Pole Pairs	
FRD21G-0320-040	320	0.4	≤ 25	105			3		0.9		5			12	
FRD21G-0400-040	400	0.4	≤ 25	134	200	8	4	12	1.1	220/380	6	15.3	76	12	
FRD21G-0450-040	450	0.4	≤ 25	152			4		1.2		7			12	
FRD21G-0320-040	320	0.4	≤ 25	110			3		0.9		5			12	
FRD21G-0400-040	400	0.4	≤ 25	140	210	8	4	12	1.1	220/380	6	14.6	73	12	
FRD21G-0450-040	450	0.4	≤ 25	160			4		1.2		7			12	

产品尺寸图
PRODUCT DIMENSION DIAGRAM

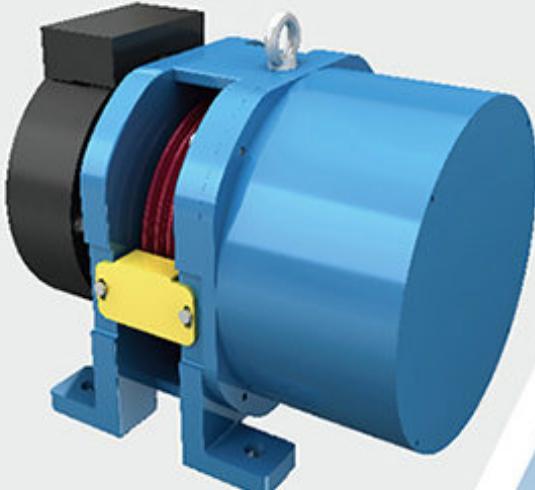


注:数据如有改动,恕不另行通知。
Note: Data modification will be done without notice, please understand.

FRD21AX 别墅梯系列主机

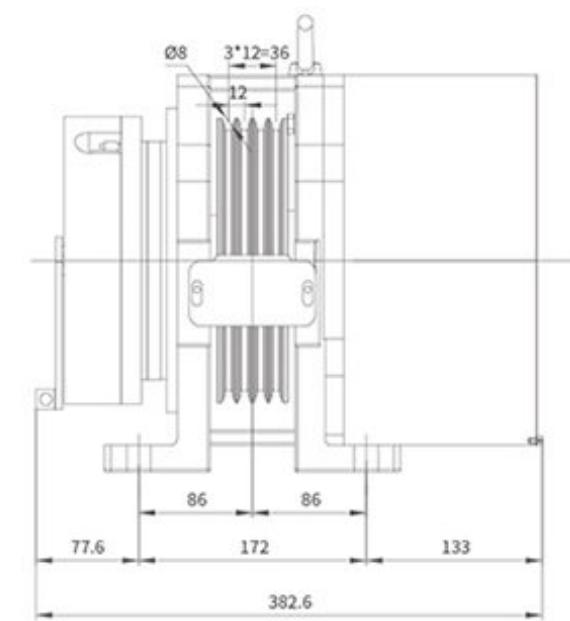
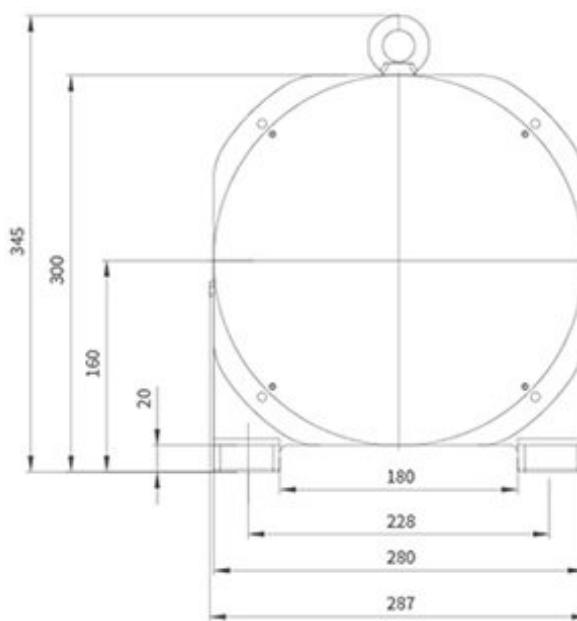
(320~450KG)

FURDER
driving expert



电源电压(Supply voltage): AC380V/220V
 牵引比(Traction ratio): 2:1
 防护等级(Protection grade): IP41
 梯速(Elevator speed):
 0.4-1.0m/s (梯速可非标定制)
 额定载重(Rated capacity): 320~450kg
 制动器(Brake): DC110V, 1.5A
 最大轴静载(The maximum axial load): 2500kg
 工作制(Duty type): S5-25%

产品尺寸图
PRODUCT DIMENSION DIAGRAM



FRD21AX (2:1) 系列永磁同步无齿轮曳引机配置表

FRD21AX (SUSPGNSION 2:1) SERIES GEARLESS TRACTION MACHINE SELECT TABLE

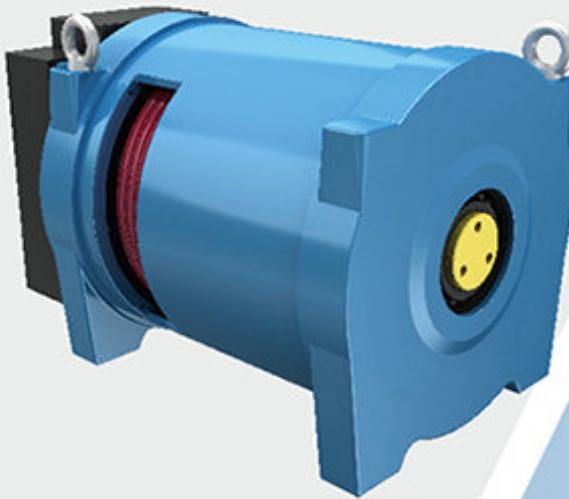
产品型号 Model	电梯参数				曳引轮规格				电机参数					
	载重 Load (kg)	速度 Speed (m/s)	推荐高度 Height (m)	转矩 Torque (Nm)	钢带轮直径 Sheave Dic. (mm)	工作轮轴圆弧 Wheel Dia. (mm)	槽数 Groove (pcs)	槽间距 Distance Between Grooves	功率 Power (kw)	额定电压 Rated Voltage (V)	额定电流 Rated Current (A)	额定频率 Frequency (Hz)	额定转速 Rated Speed (rpm)	极对数 Pole Pairs
FRD21AX-0320-040	320			105			3		0.9		5			
FRD21AX-0400-040	400	0.4	≤ 25	134	200	8	4	12	1.1	220/380	6	15.3	76	12
FRD21AX-0450-040	450			152			4		1.2		7			
FRD21AX-0320-040	320			110			3		0.9		5			
FRD21AX-0400-040	400	0.4	≤ 25	140	210	8	4	12	1.1	220/380	6	14.6	73	12
FRD21AX-0450-040	450			160			4		1.2		7			

注:数据如有改动,恕不另行通知。
Note: Data modification will be done without notice, please understand.

FRD21M 别墅梯系列主机

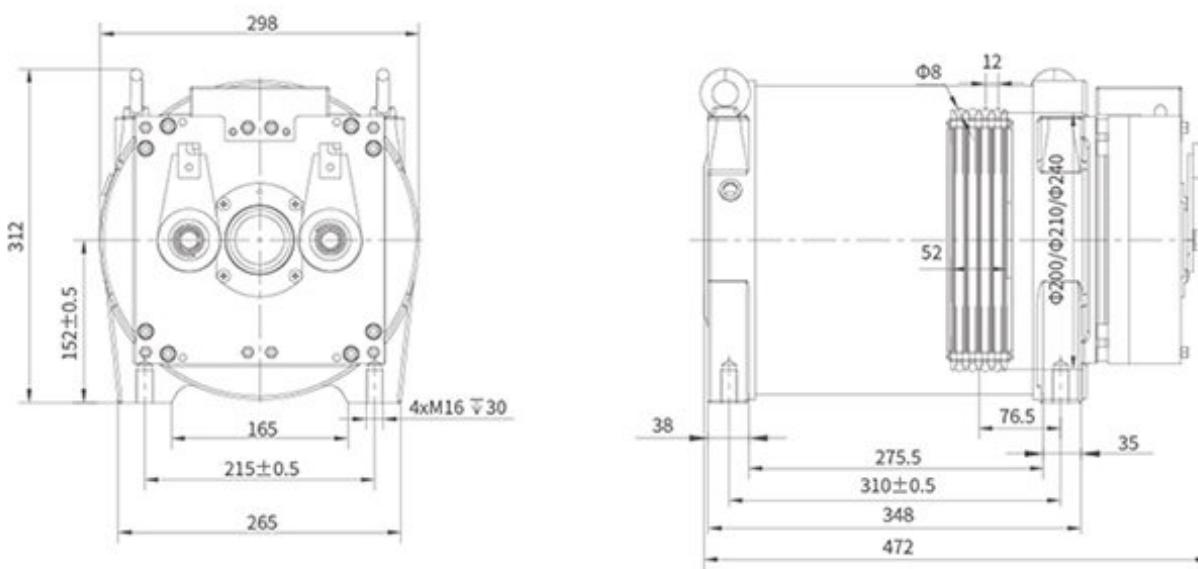
(320~450KG)

FURDER
driving expert



电源电压(Supply voltage): AC380V/220V
 牽引比(Traction ratio): 2:1
 防护等级(Protection grade): IP41
 梯速(Elevator speed): 0.4m/s (梯速可非标定制)
 额定载重(Rated capacity): 320kg~450kg
 制动器(Brake): DC110V, 2*1.5A
 最大轴静载(The maximum axial load): 2500kg
 工作制(Duty type): S5-25%

产品尺寸图
PRODUCT DIMENSION DIAGRAM



FRD21M (2:1) 系列永磁同步无齿轮曳引机配置表

FRD21M (SUSPENSION 2:1) SERIES GEARLESS TRACTION MACHINE SELECT TABLE

产品型号 Model	电梯参数				曳引轮规格				电机参数					
	载重 Load (kg)	速度 Speed (m/s)	推荐高度 Height (m)	转矩 Torque (Nm)	曳引轮直径 Sheave Dia. (mm)	钢丝绳直径 Rope Dia. (mm)	槽数 Groove (pcs)	槽间距 Distance Between Grooves	功率 Power (kw)	额定电压 Rated Voltage (V)	额定电流 Rated Current (A)	额定频率 Frequency (Hz)	额定转速 Rated Speed (rpm)	极对数 Pole Pairs
FRD21M-0320-040	320	0.4	≤ 25	105			3		0.9		5			12
FRD21M-0400-040	400	0.4	≤ 25	134	200	8	4	12	1.1	220/380	6	15.3	76	12
FRD21M-0450-040	450	0.4	≤ 25	152			4		1.2		7			12
FRD21M-0320-040	320	0.4	≤ 25	110			3		0.9		5			12
FRD21M-0400-040	400	0.4	≤ 25	140	210	8	4	12	1.1	220/380	6	14.6	73	12
FRD21M-0450-040	450	0.4	≤ 25	160			4		1.2		7			12
FRD21M-0320-040	320	0.4	≤ 25	128			3		0.9		5			12
FRD21M-0400-040	400	0.4	≤ 25	160	240	8	4	12	1.1	220/380	6	12.7	64	12
FRD21M-0450-040	450	0.4	≤ 25	180			4		1.2		7			12

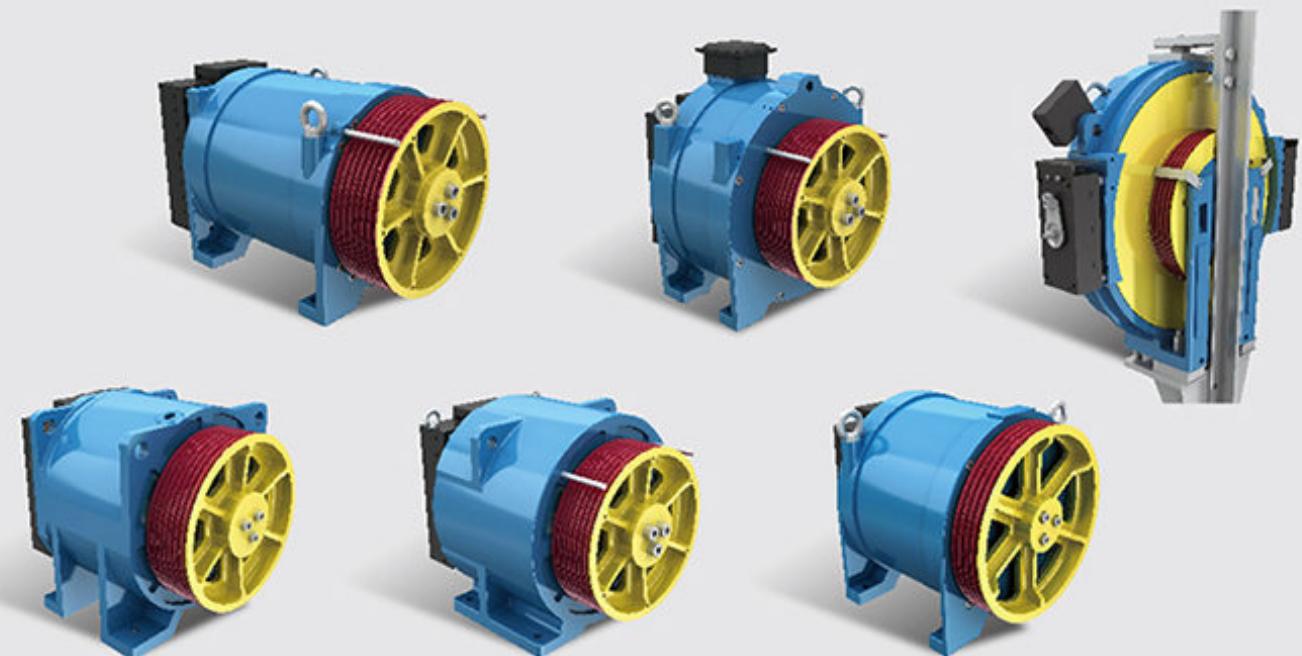
注:数据如有改动,恕不另行通知。
Note: Data modification will be done without notice, please understand.

MACHINE ROOM-LESS TRACTION MACHINE SERIES

无机房系列主机

该系列主机广泛应用于无机房客梯、观光梯配置

This series of traction machines are widely used in room-less passenger elevator and sightseeing elevator.



产品设计优势

Product design advantage

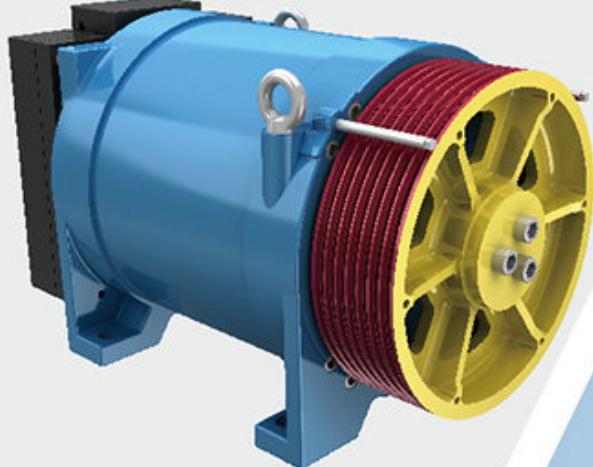
- 采用欧洲研发中心的电磁设计和内转子长条形结构设计方案，体积小、重量轻、结构紧凑，性能优越。
- 采用卧式安装结构，运行平稳无气隙变化，传递扭矩更强劲。
- 运行时振动小、噪音低于50dB (行业标准68dB)、舒适感好。
- 接线装置采用航空插件，充分减低主机高度，有效节省建筑空间，使安装维护更方便。
- 轴承采用自密封轴承，在正常使用情况下，在轴承使用寿命内免于维护。
- 制动器采用欧洲先进的设计方案，在正常使用情况下，无需调节制动器气隙。
- Electromagnetic design and inner rotor long strip structure design from European R&D center ,it is small in volume ,light in weight ,compact in structure and superior in performance.
- Horizontal installation structure ,smooth operation without air gap change ,more powerful transmission torque.
- Low vibration ,less than 50dB noise (industry standard 68dB),good comfort.
- The connection device adopts aeronautical plug ,to reduce the height of machine ,save building space and make installation and maintenance more convenient.
- Adopt two balance full sealed bears ,free maintain in warranty time.
- Brake with advance European design ,free air gap adjustment.



FRD32E

无机房系列主机

(450~1050KG)



电源电压(Supply voltage): AC380V

曳引比(Traction ratio): 2:1

防护等级(Protection grade): IP41

梯速(Elevator speed): 0.5-1.75m/s

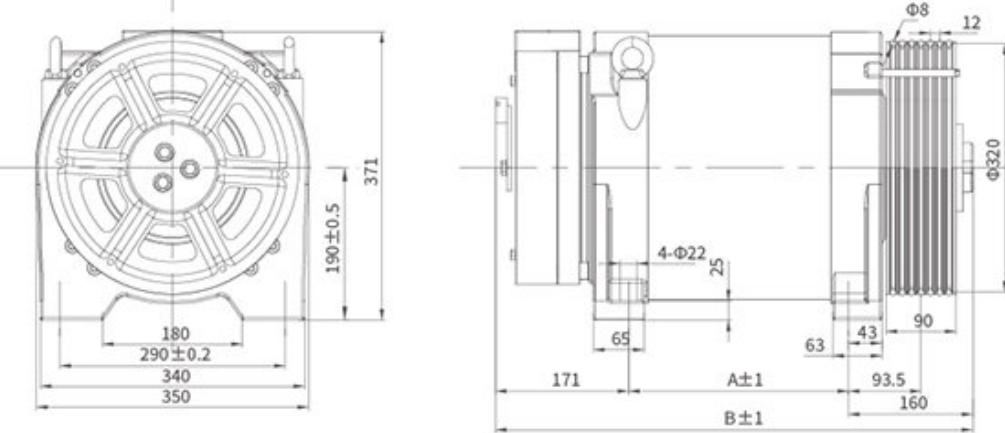
额定载重(Rated capacity): 450kg~1050kg

制动器(Brake): DC110V, 2*1.5A

最大轴静载(The maximum axial load): 5000kg

工作制(Duty type): S5-40%

产品尺寸图
PRODUCT DIMENSION DIAGRAM



型号Model	A	B
FRD32E-1050	283	620
FRD32E-1000		
FRD32E-0800	243	580
FRD32E-0630	203	540
FRD32E-0450		

FRD32E (2:1) 系列永磁同步无齿轮曳引机配置表

FRD32E (SUSPENSION 2:1) SERIES GEARLESS TRACTION MACHINE SELECT TABLE

产品型号 Model	电梯参数				曳引轮规格				电机参数					
	载重 Load (kg)	速度 Speed (m/s)	推荐高度 Height (m)	转矩 Torque (Nm)	曳引轮直径 Sheave Dia. (mm)	钢丝绳直径 Rope Dia. (mm)	槽数 Groove (pcs)	槽间距 Distance Between Grooves	功率 Power (kw)	额定电压 Rated Voltage (V)	额定电流 Rated Current (A)	额定频率 Frequency (Hz)	额定转速 Rated Speed (rpm)	极对数 Pole Pairs
FRD32E-0450-050	450	0.5	≤ 50	240	320	8	4	12	1.5	380	3.5	12	60	12
FRD32E-0450-100		1	≤ 50						3		7	23.8	119	12
FRD32E-0450-150		1.5	≤ 80						4.5		12	35.8	179	12
FRD32E-0450-175		1.75	≤ 80						5.3		13	41.8	209	12
FRD32E-0630-050	630	0.5	≤ 50	340	320	8	4	12	2	380	5	12	60	12
FRD32E-0630-100		1	≤ 50						4		10	23.8	119	12
FRD32E-0630-150		1.5	≤ 80						6.3		16	35.8	179	12
FRD32E-0630-175		1.75	≤ 80						7.3		18	41.8	209	12
FRD32E-0800-050	800	0.5	≤ 50	430	320	8	5	12	2.7	380	6	12	60	12
FRD32E-0800-100		1	≤ 50						5		12	23.8	119	12
FRD32E-0800-150		1.5	≤ 80						8		20	35.8	179	12
FRD32E-0800-175		1.75	≤ 80						9		21	41.8	209	12
FRD32E-1000-050	1000	0.5	≤ 50	535	320	8	6	12	3.3	380	7	12	60	12
FRD32E-1000-100		1	≤ 50						6.3		14	23.8	119	12
FRD32E-1000-150		1.5	≤ 80						10		24	35.8	179	12
FRD32E-1000-175		1.75	≤ 80						11.7		25	41.8	209	12
FRD32E-1050-050	1050	0.5	≤ 50	560	320	8	6	12	3.45	380	4.4	12	60	12
FRD32E-1050-100		1	≤ 50						6.6		14.7	23.8	119	12
FRD32E-1050-150		1.5	≤ 80						10.5		25.2	35.8	179	12
FRD32E-1050-175		1.75	≤ 80						12.3		26.25	41.8	209	12

注:数据如有改动,恕不另行通知。
Note: Data modification will be done without notice, please understand.

FRD32D

无机房系列主机

(450~1050KG)



电源电压(Supply voltage): AC380V

曳引比(Traction ratio): 2:1

防护等级(Protection grade): IP41

梯速(Elevator speed): 0.5-1.75m/s

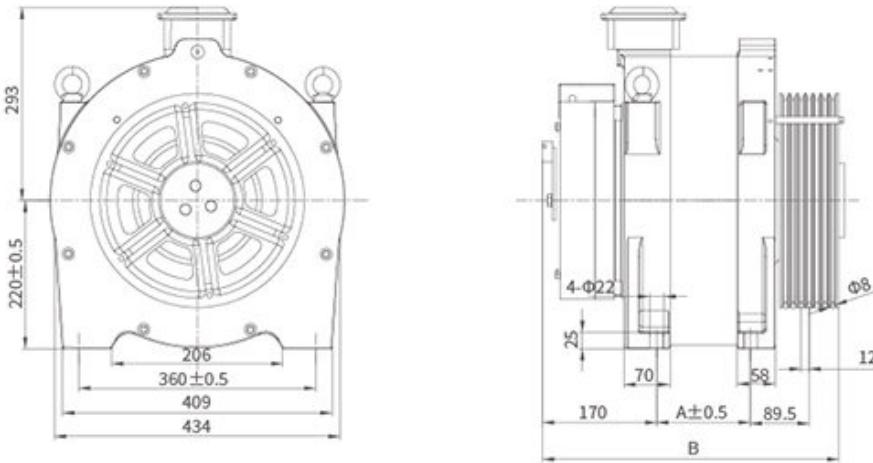
额定载重(Rated capacity): 450kg~1050kg

制动器(Brake): DC110V, 2*1.5A

最大轴静载(The maximum axial load): 5000kg

工作制(Duty type): S5-40%

产品尺寸图
PRODUCT DIMENSION DIAGRAM



型号Model	A	B
FRD32D-1050	142	464.5
FRD32D-1000		
FRD32D-0800		
FRD32D-0630	112	434.5
FRD32D-0450		

FRD32D (2:1) 系列永磁同步无齿轮曳引机配置表

FRD32D (SUSPENSION 2:1) SERIES GEARLESS TRACTION MACHINE SELECT TABLE

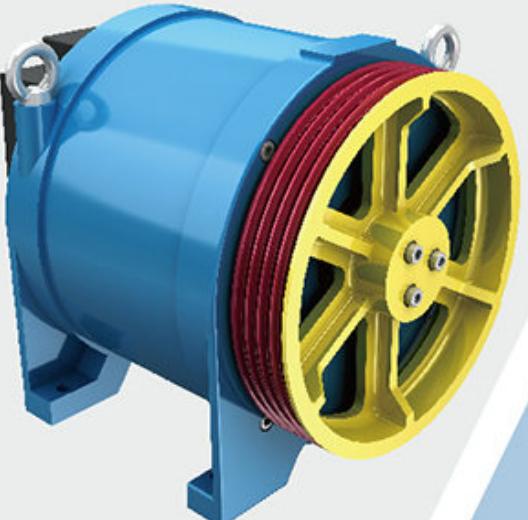
产品型号 Model	电梯参数				曳引轮规格				电机参数					
	载重 Load (kg)	速度 Speed (m/s)	推荐高度 Height (m)	转矩 Torque (Nm)	曳引轮直径 Sheave Dia. (mm)	钢丝绳直径 Rope Dia. (mm)	槽数 Groove (pcs)	槽间距 Distance Between Grooves	功率 Power (kw)	额定电压 Rated Voltage (V)	额定电流 Current (A)	额定频率 Frequency (Hz)	额定转速 Rated Speed (rpm)	极对数 Pole Pairs
FRD32D-0450-050	450	0.5	≤ 50	240	320	8	4	12	1.5	380	3.5	16	60	16
FRD32D-0450-100		1	≤ 50						3		7	31.7	119	16
FRD32D-0450-150		1.5	≤ 80						4.5		12	47.7	179	16
FRD32D-0450-160		1.6	≤ 80						4.8		12.5	50.9	191	16
FRD32D-0450-175		1.75	≤ 80						5.3		13	55.7	209	16
FRD32D-0630-050	630	0.5	≤ 50	340	320	8	4	12	2	380	5	16	60	16
FRD32D-0630-100		1	≤ 50						4		10	31.7	119	16
FRD32D-0630-150		1.5	≤ 80						6.3		16	47.7	179	16
FRD32D-0630-160		1.6	≤ 80						6.7		16	50.9	191	16
FRD32D-0630-175		1.75	≤ 80						7.3		18	55.7	209	16
FRD32D-0800-050	800	0.5	≤ 80	430	320	8	6	12	2.7	380	6	16	60	16
FRD32D-0800-100		1	≤ 80						5		12	31.7	119	16
FRD32D-0800-150		1.5	≤ 80						8		20	47.7	179	16
FRD32D-0800-160		1.6	≤ 80						8.5		20	50.9	191	16
FRD32D-0800-175		1.75	≤ 80						9		21	55.7	209	16
FRD32D-1000-050	1000	0.5	≤ 80	535	320	8	7	12	3.3	380	7	16	60	16
FRD32D-1000-100		1	≤ 80						6.3		14	31.7	119	16
FRD32D-1000-150		1.5	≤ 80						10		24	47.7	179	16
FRD32D-1000-160		1.6	≤ 80						10.6		24	50.9	191	16
FRD32D-1000-175		1.75	≤ 80						11.7		25	55.7	209	16
FRD32D-1050-050	1050	0.5	≤ 80	560	320	8	7	12	3.45	380	4.4	16	60	16
FRD32D-1050-100		1	≤ 80						6.6		14.7	31.7	119	16
FRD32D-1050-150		1.5	≤ 80						10.5		25.2	47.7	179	16
FRD32D-1050-160		1.6	≤ 80						11.2		25.2	50.9	191	16
FRD32D-1050-175		1.75	≤ 80						12.3		26.25	55.7	209	16

注:数据如有改动,恕不另行通知。
Note: Data modification will be done without notice, please understand.

FRD32G

无机房系列主机

(320~630KG)



电源电压(Supply voltage): AC380V

曳引比(Traction ratio): 2:1

防护等级(Protection grade): IP41

梯速(Elevator speed): 0.5-1.75m/s

额定载重(Rated capacity): 320kg~630kg

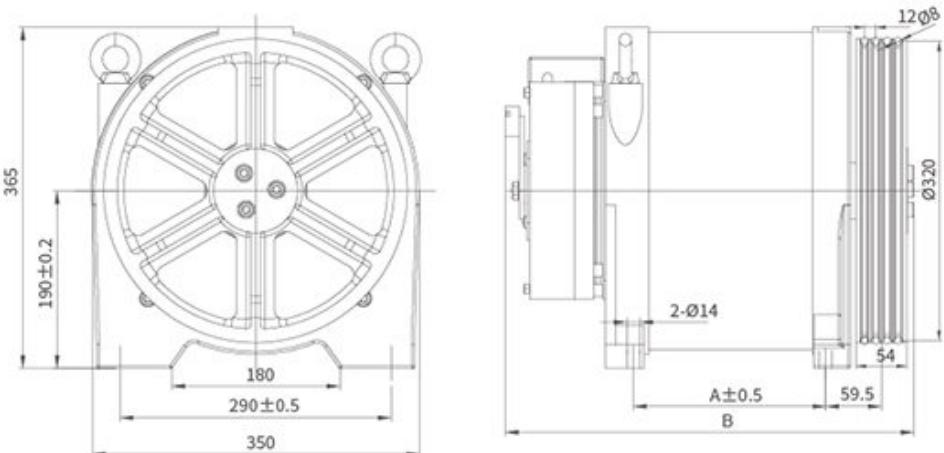
制动器(Brake): DC110V, 2.5A

最大轴静载(The maximum axial load): 2500kg

工作制(Duty type): S5-40%

产品尺寸图

PRODUCT DIMENSION DIAGRAM



型号 Model	A	B
FRD32G-0630	206	448.5
FRD32G-0450	166	408.5
FRD32G-0320		

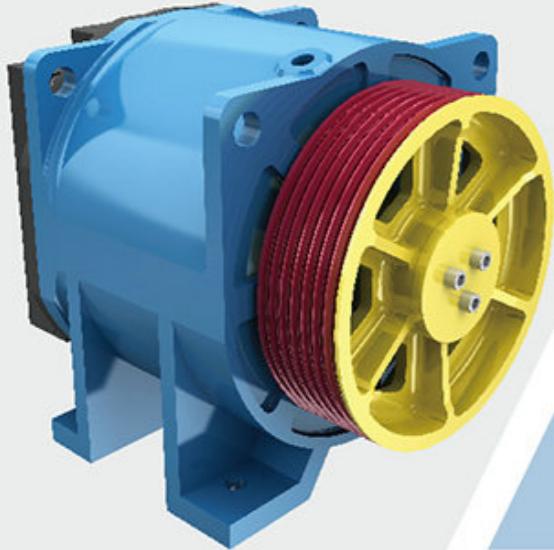
FRD32G (2:1) 系列永磁同步无齿轮曳引机配置表

FRD32G (SUSPENSION 2:1) SERIES GEARLESS TRACTION MACHINE SELECT TABLE

产品型号 Model	电梯参数					曳引轮规格			电机参数					
	载重 Load (kg)	速度 Speed (m/s)	推荐高度 Height (m)	转矩 Torque (Nm)	曳引轮直径 Sheave Dia. (mm)	钢丝绳直径 Rope Dia. (mm)	槽数 Groove (pcs)	槽间距 Distance Between Grooves	功率 Power (kw)	额定电压 Rated Voltage (V)	额定电流 Rated Current (A)	额定频率 Rated Frequency (Hz)	额定转速 Rated Speed (rpm)	极对数 Pole Pairs
FRD32G-0320-050		0.5	≤ 50						0.85		3	12	60	12
FRD32G-0320-100		1	≤ 50						2.1		5	23.8	119	12
FRD32G-0320-150	320	1.5	≤ 50	170	320	8	3	12	3.2	380	8	35.8	179	12
FRD32G-0320-160		1.6	≤ 50						3.4		8.5	38.2	191	12
FRD32G-0320-175		1.75	≤ 50						3.7		8.5	41.8	209	12
FRD32G-0320-050		0.5	≤ 50						0.85		5	12	60	12
FRD32G-0320-100		1	≤ 50						2.1		8.5	23.8	119	12
FRD32G-0320-150	320	1.5	≤ 50	170	320	8	3	12	3.2	220	13	35.8	179	12
FRD32G-0320-160		1.6	≤ 50						3.4		13.5	38.2	191	12
FRD32G-0320-175		1.75	≤ 50						3.7		16.5	41.8	209	12
FRD32G-0450-050		0.5	≤ 50						1.5		3.5	12	60	12
FRD32G-0450-100		1	≤ 50						3		7	23.8	119	12
FRD32G-0450-150	450	1.5	≤ 80	240	320	8	4	12	4.5	380	12	35.8	179	12
FRD32G-0450-160		1.6	≤ 80						4.8		12.5	38.2	191	12
FRD32G-0450-175		1.75	≤ 80						5.3		13	41.8	209	12
FRD32G-0450-050		0.5	≤ 50						1.5		6.5	12	60	12
FRD32G-0450-100		1	≤ 50						3		12.5	23.8	119	12
FRD32G-0450-150	450	1.5	≤ 80	240	320	8	4	12	4.5	220	17.5	35.8	179	12
FRD32G-0450-160		1.6	≤ 80						4.8		20	38.2	191	12
FRD32G-0450-175		1.75	≤ 80						5.3		21.5	41.8	209	12
FRD32G-0630-050		0.5	≤ 50						2		5	12	60	12
FRD32G-0630-100		1	≤ 50						4		10	23.8	119	12
FRD32G-0630-150	630	1.5	≤ 80	340	320	8	4	12	6.3	380	16	35.8	179	12
FRD32G-0630-160		1.6	≤ 80						6.7		16	38.2	191	12
FRD32G-0630-175		1.75	≤ 80						7.3		18	41.8	209	12
FRD32G-0630-050		0.5	≤ 50						2		9	12	60	12
FRD32G-0630-100		1	≤ 50						4.2		18	23.8	119	12
FRD32G-0630-150	630	1.5	≤ 80	340	320	8	4	12	6.3	220	27	35.8	179	12
FRD32G-0630-160		1.6	≤ 80						6.7		30	38.2	191	12
FRD32G-0630-175		1.75	≤ 80						7.3		33	41.8	209	12

注:数据如有改动,恕不另行通知。
Note: Data modification will be done without notice, please understand.

FRD32WA 无机房系列主机 (450~1050KG)



电源电压(Supply voltage): AC380V

曳引比(Traction ratio): 2:1

防护等级(Protection grade): IP41

梯速(Elevator speed): 0.5-2.0m/s

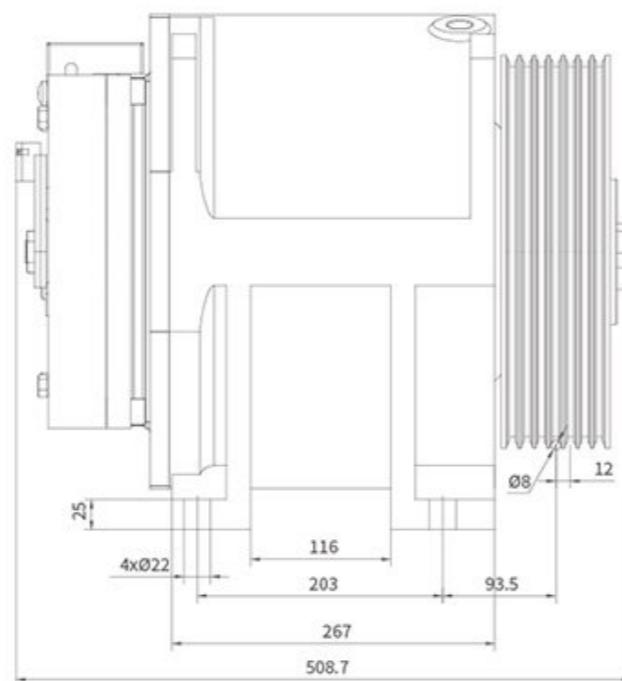
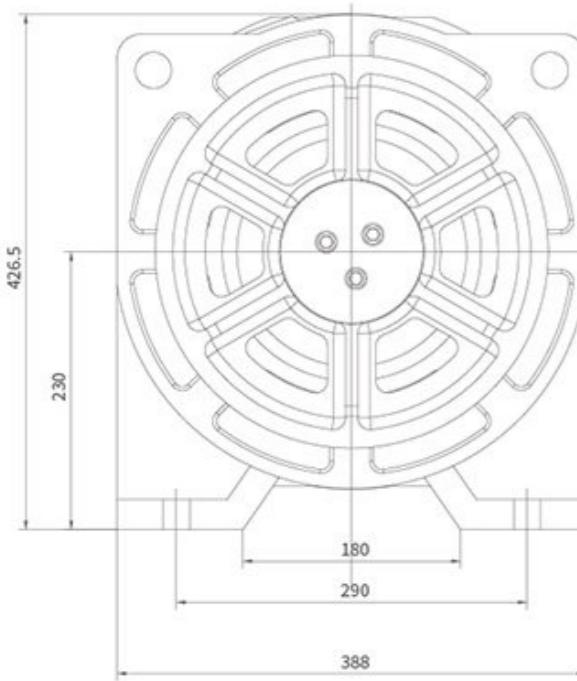
额定载重(Rated capacity): 450kg~1050kg

制动器(Brake): DC110V, 2*1.5A

最大轴静载(The maximum axial load): 2500kg

工作制(Duty type): S5-40%

产品尺寸图
PRODUCT DIMENSION DIAGRAM



FRD32WA (2:1) 系列永磁同步无齿轮曳引机配置表

FRD32WA (SUSPENSION 2:1) SERIES GEARLESS TRACTION MACHINE SELECT TABLE

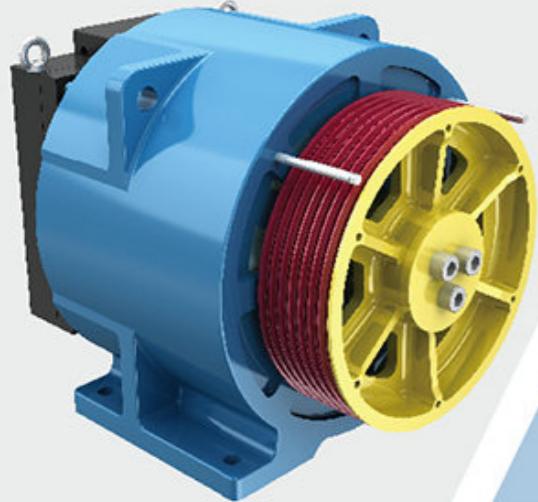
产品型号 Model	电梯参数				曳引轮规格				电机参数					
	载重 Load (kg)	速度 Speed (m/s)	推荐高度 Height (m)	转矩 Torque (Nm)	曳引轮直径 Sheave Dia. (mm)	钢丝绳直径 Rope Dia. (mm)	槽数 Groove (pcs)	槽间距 Distance Between Grooves	功率 Power (kw)	额定电压 Rated Voltage (V)	额定电流 Current (A)	额定频率 Frequency (Hz)	额定转速 Rated Speed (rpm)	极对数 Pole Pairs
FRD32WA-0450-050		0.5	≤ 50						1.5		5	12	60	12
FRD32WA-0450-100		1	≤ 50						3.0		8	23.8	119	12
FRD32WA-0450-150	450	1.5	≤ 80	241			4		4.5		10	35.8	179	12
FRD32WA-0450-160		1.6	≤ 80						4.8		11	38.2	191	12
FRD32WA-0450-175		1.75	≤ 80						5.3		12	41.8	209	12
FRD32WA-0630-050		0.5	≤ 50						2.1		7	12	60	12
FRD32WA-0630-100		1	≤ 50						4.2		10	23.8	119	12
FRD32WA-0630-150	630	1.5	≤ 80	337			4		6.3		14	35.8	179	12
FRD32WA-0630-160		1.6	≤ 80						6.7		15	38.2	191	12
FRD32WA-0630-175		1.75	≤ 80						7.4		16	41.8	209	12
FRD32WA-0630-200		2	≤ 80						8.4		18	47.8	239	12
FRD32WA-0800-050		0.5	≤ 50						2.7		8	12	60	12
FRD32WA-0800-100		1	≤ 50						5.3		12	23.8	119	12
FRD32WA-0800-150	800	1.5	≤ 80	428	320	8	6	12	8.0	380	18	35.8	179	12
FRD32WA-0800-160		1.6	≤ 80						8.6		20	38.2	191	12
FRD32WA-0800-175		1.75	≤ 80						9.4		20	41.8	209	12
FRD32WA-0800-200		2	≤ 80						10.7		23	47.8	239	12
FRD32WA-1000-050		0.5	≤ 50						3.3		9	12	60	12
FRD32WA-1000-100		1	≤ 50						6.7		15	23.8	119	12
FRD32WA-1000-150	1000	1.5	≤ 80	535			7		10.0		22	35.8	179	12
FRD32WA-1000-160		1.6	≤ 80						10.7		26	38.2	191	12
FRD32WA-1000-175		1.75	≤ 80						11.7		26	41.8	209	12
FRD32WA-1000-200		2	≤ 80						13.4		29	47.8	239	12
FRD32WA-1050-050		0.5	≤ 50						3.5		10	12	60	12
FRD32WA-1050-100		1	≤ 50						7.0		16	23.8	119	12
FRD32WA-1050-150	1050	1.5	≤ 80	561			7		10.5		23	35.8	179	12
FRD32WA-1050-160		1.6	≤ 80						11.2		26	38.2	191	12
FRD32WA-1050-175		1.75	≤ 80						12.3		27	41.8	209	12
FRD32WA-1050-200		2	≤ 80						14.0		30	47.8	239	12

注:数据如有改动,恕不另行通知。
Note: Data modification will be done without notice, please understand.

FRD32W

无机房系列主机

(450~1050KG)



电源电压(Supply voltage): AC380V

曳引比(Traction ratio): 2:1

防护等级(Protection grade): IP41

梯速(Elevator speed): 0.5-2.0m/s

额定载重(Rated capacity): 450kg~1050kg

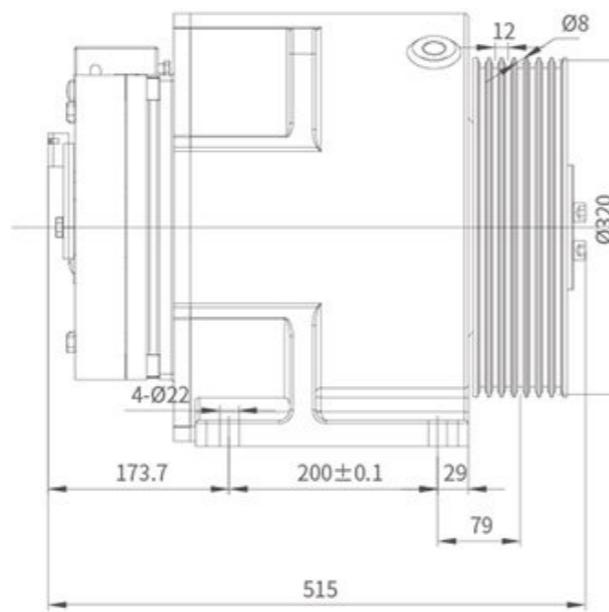
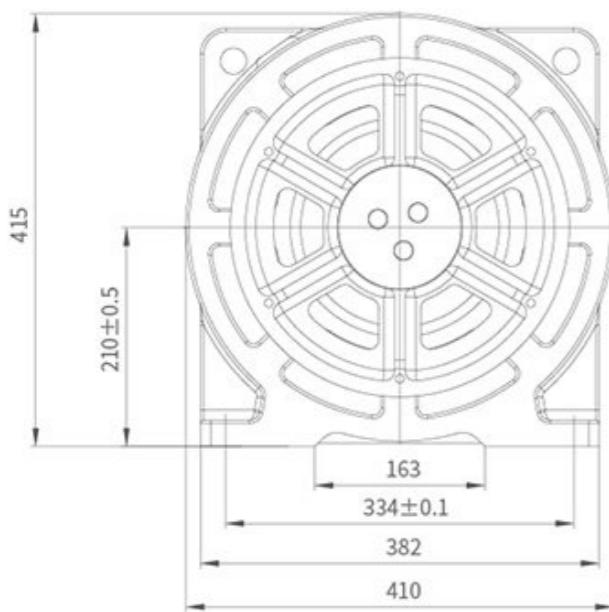
制动器(Brake): DC110V, 2*1.5A

最大轴静载(The maximum axial load): 3000kg

工作制(Duty type): S5-40%

产品尺寸图

PRODUCT DIMENSION DIAGRAM



FRD32W (2:1) 系列永磁同步无齿轮曳引机配置表

FRD32W (SUSPENSION 2:1) SERIES GEARLESS TRACTION MACHINE SELECT TABLE

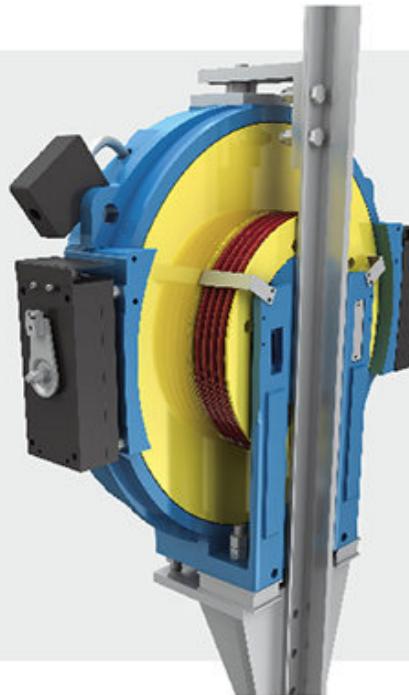
产品型号 Model	电梯参数				曳引轮规格				电机参数					
	载重 Load (kg)	速度 Speed (m/s)	推荐高度 Height (m)	转矩 Torque (Nm)	曳引轮直径 Sheave Dia. (mm)	钢丝绳直径 Rope Dia. (mm)	槽数 Groove (pcs)	槽间距 Distance Between Grooves	功率 Power (kw)	额定电压 Rated Voltage (V)	额定电流 Rated Current (A)	额定频率 Rated Frequency (Hz)	额定转速 Rated Speed (rpm)	极对数 Pole Pairs
FRD32W-0450-050		0.5	≤ 50						1.5		5	12	60	12
FRD32W-0450-100		1	≤ 50						3		8	23.8	119	12
FRD32W-0450-150	450	1.5	≤ 80	241			4		4.5		10	35.8	179	12
FRD32W-0450-160		1.6	≤ 80						4.8		11	38.2	191	12
FRD32W-0450-175		1.75	≤ 80						5.3		12	41.8	209	12
FRD32W-0630-050		0.5	≤ 50						2.1		7	12	60	12
FRD32W-0630-100		1	≤ 50						4.2		10	23.8	119	12
FRD32W-0630-150	630	1.5	≤ 80	337			4		6.3		14	35.8	179	12
FRD32W-0630-160		1.6	≤ 80						6.7		15	38.2	191	12
FRD32W-0630-175		1.75	≤ 80						7.4		16	41.8	209	12
FRD32W-0630-200		2	≤ 80						8.4		18	47.8	239	12
FRD32W-0800-050		0.5	≤ 50						2.7		8	12	60	12
FRD32W-0800-100		1	≤ 50						5.3		12	23.8	119	12
FRD32W-0800-150	800	1.5	≤ 80	428	320	8	6	12	8		18	35.8	179	12
FRD32W-0800-160		1.6	≤ 80						8.6	380	20	38.2	191	12
FRD32W-0800-175		1.75	≤ 80						9.4		20	41.8	209	12
FRD32W-0800-200		2	≤ 80						10.7		23	47.8	239	12
FRD32W-1000-050		0.5	≤ 50						3.3		9	12	60	12
FRD32W-1000-100		1	≤ 50						6.7		15	23.8	119	12
FRD32W-1000-150	1000	1.5	≤ 80	535			7		10		22	35.8	179	12
FRD32W-1000-160		1.6	≤ 80						10.7		26	38.2	191	12
FRD32W-1000-175		1.75	≤ 80						11.7		26	41.8	209	12
FRD32W-1000-200		2	≤ 80						13.4		29	47.8	239	12
FRD32W-1050-050		0.5	≤ 50						3.5		10	12	60	12
FRD32W-1050-100		1	≤ 50						7		16	23.8	119	12
FRD32W-1050-150	1050	1.5	≤ 80	561			7		10.5		23	35.8	179	12
FRD32W-1050-160		1.6	≤ 80						11.2		26	38.2	191	12
FRD32W-1050-175		1.75	≤ 80						12.3		27	41.8	209	12
FRD32W-1050-200		2	≤ 80						14.0		30	47.8	239	12

注:数据如有改动,恕不另行通知。
Note: Data modification will be done without notice, please understand.

FRD40T

无机房系列主机

(630~1000KG)



电源电压(Supply voltage): AC380V

曳引比(Traction ratio): 2:1

防护等级(Protection grade): IP41

梯速(Elevator speed): 0.5-1.75m/s

额定载重(Rated capacity): 630kg~1000kg

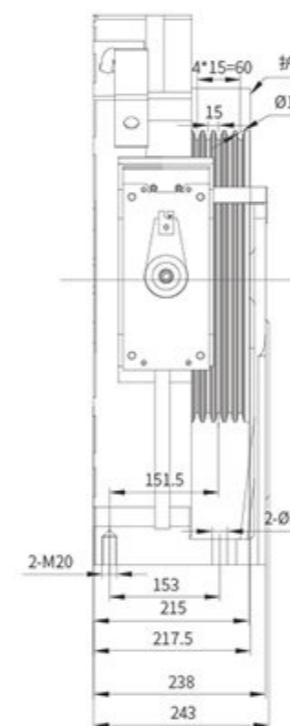
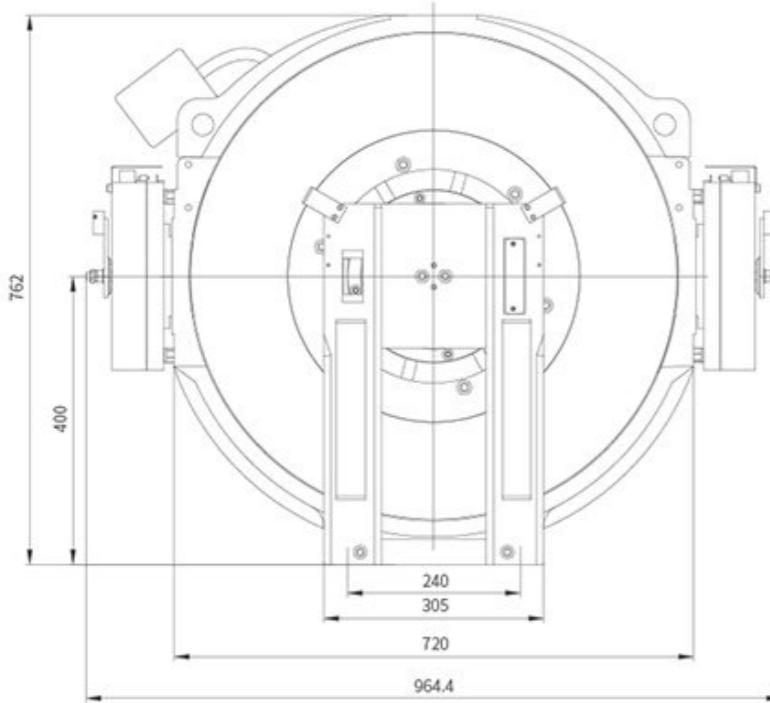
制动器(Brake): DC110V, 2*1.5A

最大轴静载(The maximum axial load): 3000kg

工作制(Duty type): S5-40%

产品尺寸图

PRODUCT DIMENSION DIAGRAM



FRD40T (2:1) 系列永磁同步无齿轮曳引机配置表

FRD40T (SUSPENSION 2:1) SERIES GEARLESS TRACTION MACHINE SELECT TABLE

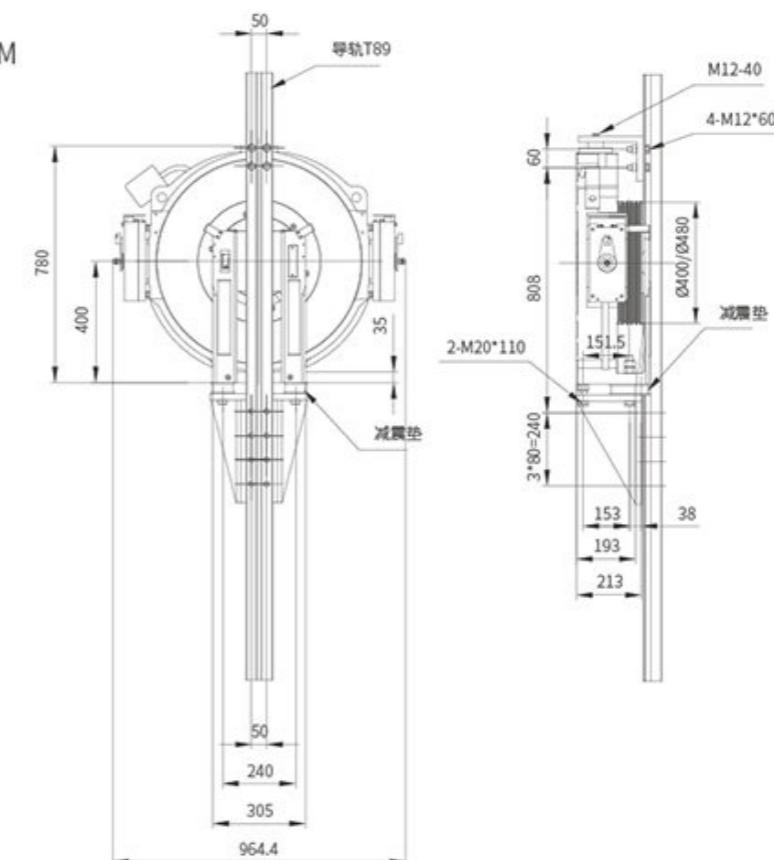
产品型号 Model	电梯参数				曳引轮规格				电机参数				
	载重 Load (kg)	速度 Speed (m/s)	推荐高度 Height (m)	转矩 Torque (Nm)	曳引轮直径 Sheave Dia. (mm)	钢丝绳直径 Rope Dia. (mm)	槽数 Groove (pcs)	槽间距 Distance Between Grooves	功率 Power (kw)	额定电压 Rated Voltage (V)	额定电流 Current (A)	额定频率 Frequency (Hz)	额定转速 Rated Speed (rpm)
FRD40T-0630-050		0.5	≤ 50						2.2		6	19.2	48
FRD40T-0630-100		1	≤ 50						4.3		10	38	95
FRD40T-0630-150	630	1.5	≤ 80	430	400	10	4	15	6.4	380	16	57.2	143
FRD40T-0630-160		1.6	≤ 80						6.9		16	61.2	153
FRD40T-0630-175		1.75	≤ 80						7.5		16	66.8	167
FRD40T-0800-050		0.5	≤ 80						2.7		8	19.2	48
FRD40T-0800-100		1	≤ 80						5.4		12	38	95
FRD40T-0800-150	800	1.5	≤ 80	540	400	10	5	15	8.1	380	20	57.2	143
FRD40T-0800-160		1.6	≤ 80						8.7		20	61.2	153
FRD40T-0800-175		1.75	≤ 80						9.4		20	66.8	167
FRD40T-1000-050		0.5	≤ 80						3.2		10	19.2	48
FRD40T-1000-100		1	≤ 80						6.4		15	38.0	95
FRD40T-1000-150	1000	1.5	≤ 80	640	400	10	5	15	9.6	380	26	57.2	143
FRD40T-1000-160		1.6	≤ 80						10.3		26	61.2	153
FRD40T-1000-175		1.75	≤ 80						11.2		26	66.8	167

注:数据如有改动,恕不另行通知。

Note: Data modification will be done without notice, please understand.

安装示意图

INSTALLATION DIAGRAM



PASSENGER ELEVATOR TRACTION MACHINE SERIES

常规客梯系列主机

该系列主机广泛应用于客梯、观光梯、医用梯、小载重货梯、无机房客梯配置

This series of traction machines are widely used in passenger elevator, sightseeing elevator, hospital elevator, small load freight elevator, machine room-less passenger.



产品设计优势

Product design advantage

- 采用欧洲研发中心的电磁设计和内转子扁平型结构设计方案，体积小、重量轻、结构紧凑，性能优越。
- 采用卧式安装结构，运行平稳无气隙变化，传递扭矩更强劲。
- 运行时振动小、噪音低于55dB（行业标准68dB），舒适感好。
- 轴承采用自密封轴承，在正常使用情况下，在轴承使用寿命内免于维护。
- 制动器采用欧洲先进的设计方案，在正常使用情况下，无需调节制动器气隙。
- Electromagnetic design and inner rotor flat structure design from European R&D center ,it is small in volume ,light in weight ,compact in structure and superior in performance.
- Horizontal installation structure ,smooth operation without air gap change ,more powerful transmission torque.
- Low vibration ,less than 55dB noise (industry standard 68dB),good comfort.
- Adopt two balance full sealed bears ,free maintain in warranty time.
- Brake with advance European design ,free air gap adjustment.



FRD40D

常规客梯系列主机

(630~1050KG)

FURDER
driving expert



电源电压(Supply voltage): AC380V

曳引比(Traction ratio): 2:1

防护等级(Protection grade): IP41

梯速(Elevator speed): 0.5-2.5m/s

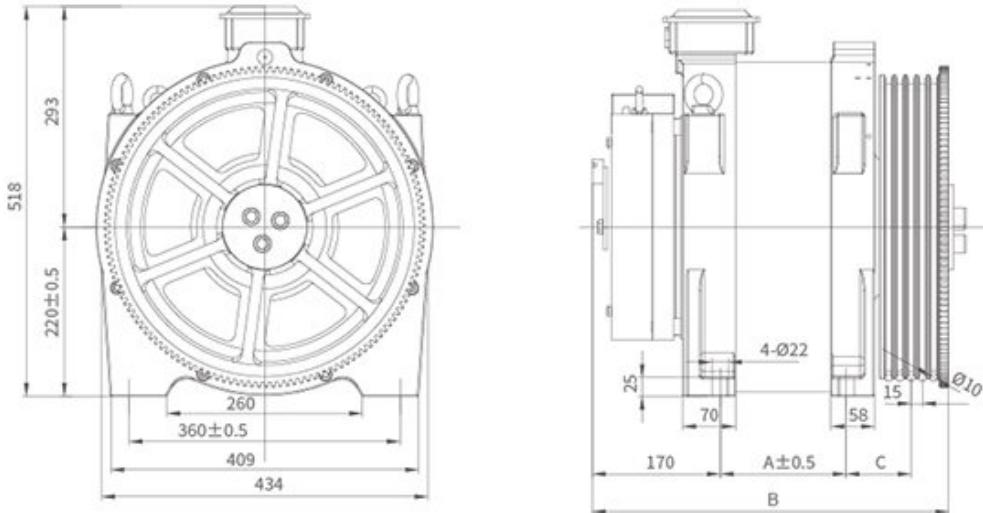
额定载重(Rated capacity): 630kg~1050kg

制动器(Brake): DC110V, 2*1.5A

最大轴静载(The maximum axial load): 5000kg

工作制(Duty type): S5-40%

产品尺寸图
PRODUCT DIMENSION DIAGRAM



型号Model	A	B	C	槽数Groove
FRD40D-1000	167	474	94	6
	167	459	86.5	5
FRD40D-0800	142	434	86.5	5
	142	419	79	4
FRD40D-0630	112	399	79	4

FRD40D (2:1) 系列永磁同步无齿轮曳引机配置表

FRD40D (SUSPENSION 2:1) SERIES GEARLESS TRACTION MACHINE SELECT TABLE

产品型号 Model	电梯参数				曳引轮规格				电机参数					
	载重 Load (kg)	速度 Speed (m/s)	推荐高度 Height (m)	转矩 Torque (Nm)	曳引轮直径 Sheave Dia. (mm)	钢丝绳直径 Rope Dia. (mm)	槽数 Groove (pcs)	槽间距 Distance Between Grooves	功率 Power (kw)	额定电压 Rated Voltage (V)	额定电流 Current(A)	额定频率 Frequency (Hz)	额定转速 Rated Speed (rpm)	极对数 Pole Pairs
FRD40D-0630-050	630	0.5	≤ 50	420	400	10	4	15	2	380	5	12.5	48	16
FRD40D-0630-100		1	≤ 50						4.2		10	25.3	95	16
FRD40D-0630-150		1.5	≤ 80						6.3		16	38.1	143	16
FRD40D-0630-160		1.6	≤ 80						6.7		16	40.5	152	16
FRD40D-0630-175		1.75	≤ 80						7.3		18	44.5	167	16
FRD40D-0630-200		2	≤ 80						8.4		20.3	50.9	191	16
FRD40D-0800-050	800	0.5	≤ 80	535	400	10	5	15	2.7	380	6	12.5	48	16
FRD40D-0800-100		1	≤ 80						4		12	25.3	95	16
FRD40D-0800-150		1.5	≤ 80						5		20	38.1	143	16
FRD40D-0800-160		1.6	≤ 80						5		20	40.5	152	16
FRD40D-0800-175		1.75	≤ 80						5		21	44.5	167	16
FRD40D-0800-200		2	≤ 80						5		24.9	50.9	191	16
FRD40D-0800-250		2.5	≤ 80						5		31.6	63.5	238	16
FRD40D-1000-050	1000	0.5	≤ 80	669	400	10	6	15	3.3	380	7	12.5	48	16
FRD40D-1000-100		1	≤ 80						5		14	25.3	95	16
FRD40D-1000-150		1.5	≤ 80						6		24	38.1	143	16
FRD40D-1000-160		1.6	≤ 80						6		25	40.5	152	16
FRD40D-1000-175		1.75	≤ 80						6		25	44.5	167	16
FRD40D-1000-200		2	≤ 80						6		28.8	50.9	191	16
FRD40D-1000-250		2.5	≤ 120						6		39.8	63.5	238	16
FRD40D-1050-050	1050	0.5	≤ 80	705	400	10	6	15	3.5	380	7.5	12.5	48	16
FRD40D-1050-100		1	≤ 80						6		14.8	25.3	95	16
FRD40D-1050-150		1.5	≤ 80						6		25.2	38.1	143	16
FRD40D-1050-160		1.6	≤ 80						6		26.3	40.5	152	16
FRD40D-1050-175		1.75	≤ 80						6		26.3	44.5	167	16
FRD40D-1050-200		2	≤ 80						6		30.3	50.9	191	16
FRD40D-1050-250		2.5	≤ 120						6		41.5	63.5	238	16

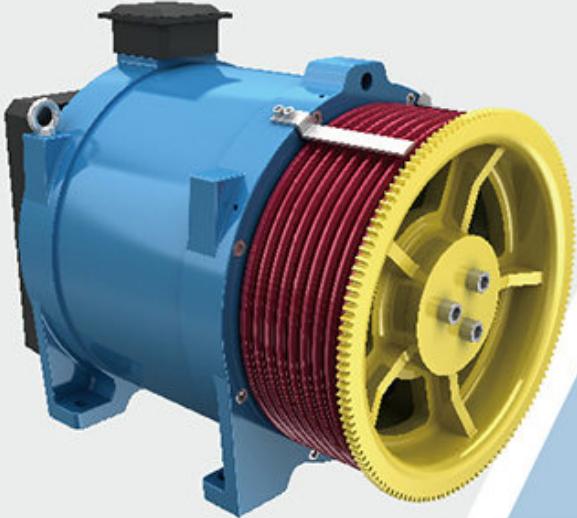
注:数据如有改动,恕不另行通知。
Note: Data modification will be done without notice, please understand.

FRD40E

常规客梯系列主机

(1150~1600KG)

FURDER
driving expert



电源电压(Supply voltage): AC380V

曳引比(Traction ratio): 2:1

防护等级(Protection grade): IP41

梯速(Elevator speed): 0.5-2.5m/s

额定载重(Rated capacity): 1150kg~1600kg

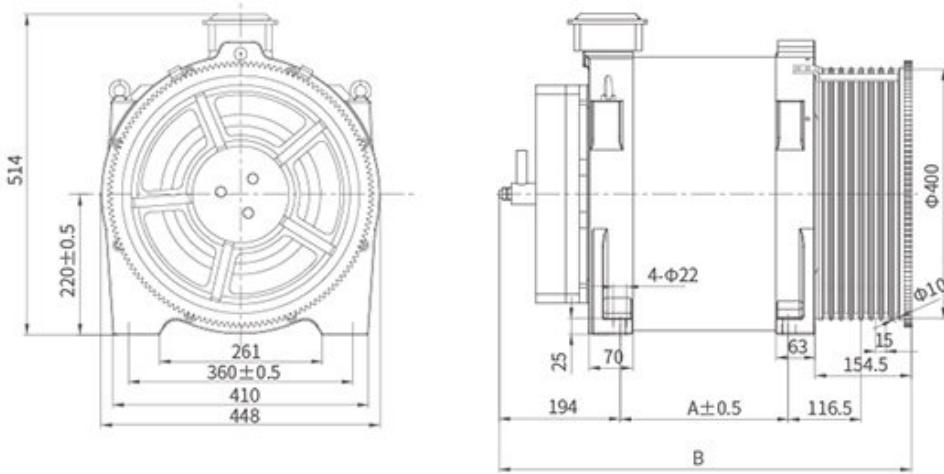
制动器(Brake): DC110V, 2*1.8A

最大轴静载(The maximum axial load): 7000kg

工作制(Duty type): S5-40%

产品尺寸图

PRODUCT DIMENSION DIAGRAM



型号Model	A	B
FRD40E-1600	270	661.5
FRD40E-1350		
FRD40E-1250	223	614.5
FRD40E-1150		

FRD40E (2:1) 系列永磁同步无齿轮曳引机配置表

FRD40E [SUSPENSION 2:1] SERIES GEARLESS TRACTION MACHINE SELECT TABLE

产品型号 Model	电梯参数				曳引轮规格				电机参数					
	载重 Load (kg)	速度 Speed (m/s)	推荐高度 Height (m)	转矩 Torque (Nm)	曳引轮直径 Sheave Dia. (mm)	钢丝绳直径 Rope Dia. (mm)	槽数 Groove (pcs)	槽间距 Distance Between Grooves	功率 Power (kw)	额定电压 Rated Voltage (V)	额定电流 Current (A)	额定频率 Frequency (Hz)	额定转速 Rated Speed (rpm)	极对数 Pole Pairs
FRD40E-1150-050	1150	0.5	≤ 80	765	400	10	7	15	3.8	380	12	12.8	48	16
FRD40E-1150-100		1	≤ 80						7.7		18.2	25.3	95	16
FRD40E-1150-150		1.5	≤ 80						11.5		28.4	38.1	143	16
FRD40E-1150-160		1.6	≤ 80						12.3		29	40.5	152	16
FRD40E-1150-175		1.75	≤ 80						13.5		32.2	44.5	167	16
FRD40E-1150-200		2	≤ 80						15.4		36	50.9	191	16
FRD40E-1150-250		2.5	≤ 120						19.2		47	63.7	238	16
FRD40E-1250-050	1250	0.5	≤ 50	835	400	10	7	15	4.2	380	13	12.8	48	16
FRD40E-1250-100		1	≤ 50						8.4		20	25.3	95	16
FRD40E-1250-150		1.5	≤ 80						12.5		30.6	38.1	143	16
FRD40E-1250-160		1.6	≤ 80						13.4		30.6	40.5	152	16
FRD40E-1250-175		1.75	≤ 80						14.6		33.5	44.5	167	16
FRD40E-1250-200		2	≤ 80						16.7		38.6	50.9	191	16
FRD40E-1250-250		2.5	≤ 80						20.8		48	63.7	238	16
FRD40E-1350-050	1350	0.5	≤ 80	905	400	10	7	15	4.5	380	15	12.8	48	16
FRD40E-1350-100		1	≤ 80						9		19.5	25.3	95	16
FRD40E-1350-150		1.5	≤ 80						13.5		29.5	38.1	143	16
FRD40E-1350-160		1.6	≤ 80						14.4		32	40.5	152	16
FRD40E-1350-175		1.75	≤ 80						15.8		34.5	44.5	167	16
FRD40E-1350-200		2	≤ 80						18		38.5	50.9	191	16
FRD40E-1350-250		2.5	≤ 80						22.5		48.5	63.7	238	16
FRD40E-1600-050	1600	0.5	≤ 80	1073	400	10	8	15	5.4	380	17	12.8	48	16
FRD40E-1600-100		1	≤ 80						10.7		23.5	25.3	95	16
FRD40E-1600-150		1.5	≤ 80						16		34.3	38.1	143	16
FRD40E-1600-160		1.6	≤ 80						17.2		36.5	40.5	152	16
FRD40E-1600-175		1.75	≤ 80						18.7		40	44.5	167	16
FRD40E-1600-200		2	≤ 80						21.4		46	50.9	191	16
FRD40E-1600-250		2.5	≤ 120						26.7		57.3	63.7	238	16

注:数据如有改动,恕不另行通知。
Note: Data modification will be done without notice, please understand.

FRD40W 常规客梯系列主机

(630~1600KG)

FURDER
driving expert



电源电压(Supply voltage): AC380V

曳引比(Traction ratio): 2:1

防护等级(Protection grade): IP41

梯速(Elevator speed): 0.5-2.0m/s

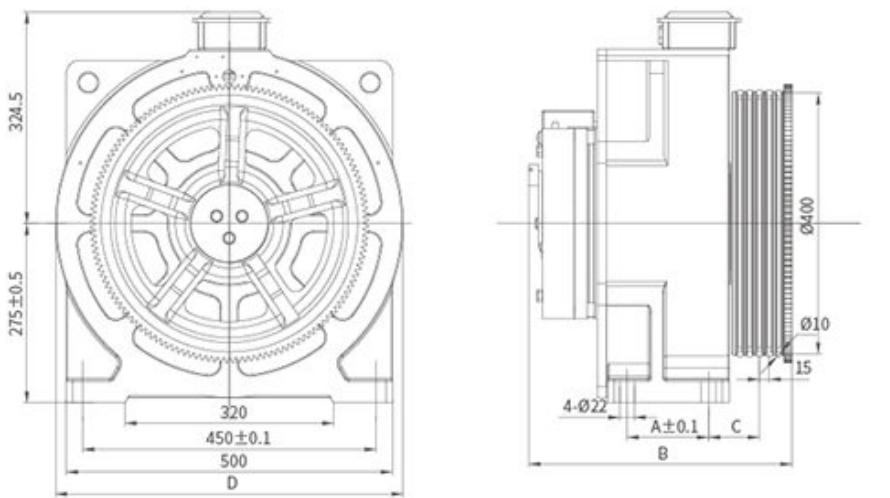
额定载重(Rated capacity): 630kg~1600kg

制动器(Brake): DC110V, 2*1.5A/2*1.8A

最大轴静载(The maximum axial load): 3000kg/5000kg

工作制(Duty type): S5-40%

产品尺寸图
PRODUCT DIMENSION DIAGRAM



型号Model	A	B	C	D	槽数Groove
FRD40W-1600					9
FRD40W-1350					8
FRD40W-1250					7
FRD40W-1150					6
FRD40W-1000					6
FRD40W-1000					5
FRD40W-0800					4
FRD40W-0630					
FRD40W-0450					

FRD40W (2:1) 系列永磁同步无齿轮曳引机配置表

FRD40W (SUSPENSION 2:1) SERIES GEARLESS TRACTION MACHINE SELECT TABLE

产品型号 Model	电梯参数				曳引轮规格			电机参数					
	载重 Load (kg)	速度 Speed (m/s)	转矩 Torque (Nm)	曳引轮直径 Sheave Dia. (mm)	钢丝绳直径 Rope Dia. (mm)	槽数 Groove (pcs)	槽间距 Distance Between Grooves	功率 Power (kw)	额定电压 Rated Voltage (V)	额定电流 Rated Current (A)	额定频率 Frequency (Hz)	额定转速 Rated Speed (rpm)	极对数 Pole Pairs
FRD40W-0630-050		0.5						2.2		7	12.8	48	16
FRD40W-0630-100		1						4.3		10	25.3	95	16
FRD40W-0630-150	630	1.5	420			4		6.4		14	38.1	143	16
FRD40W-0630-175		1.75						7.5		16	44.5	167	16
FRD40W-0630-200		2						8.5		18	50.9	191	16
FRD40W-0800-050		0.5						2.7		9	12.8	48	16
FRD40W-0800-100		1						5		13	25.3	95	16
FRD40W-0800-150	800	1.5	535			5		8.1		18	38.1	143	16
FRD40W-0800-175		1.75						9.4		21	44.5	167	16
FRD40W-0800-200		2						10.8		23	50.9	191	16
FRD40W-1000-050		0.5						3.4		11	12.8	48	16
FRD40W-1000-100		1						6.7		16	25.3	95	16
FRD40W-1000-150	1000	1.5	669			5		10		23	38.1	143	16
FRD40W-1000-175		1.75						11.7		26	44.5	167	16
FRD40W-1000-200		2						13.4		29	50.9	191	16
FRD40W-1150-050		0.5						3.8		12	12.8	48	16
FRD40W-1150-100		1						7.7		18	25.3	95	16
FRD40W-1150-150	1150	1.5	765			7		11.5		24	38.1	143	16
FRD40W-1150-175		1.75						13.5		29	44.5	167	16
FRD40W-1150-200		2						15.4		38	50.9	191	16
FRD40W-1150-250		2.5						19.2		47	63.7	239	16
FRD40W-1250-050		0.5						4.2		13	12.8	48	16
FRD40W-1250-100		1						8.4		20	25.3	95	16
FRD40W-1250-150	1250	1.5	835			7		12.5		27	38.1	143	16
FRD40W-1250-175		1.75						14.6		31	44.5	167	16
FRD40W-1250-200		2						16.7		37	50.9	191	16
FRD40W-1250-250		2.5						20.8		46	63.7	239	16
FRD40W-1350-050		0.5						4.5		15	12.8	48	16
FRD40W-1350-100		1						9		20	25.3	95	16
FRD40W-1350-150	1350	1.5	905			7		13.5		31	38.1	143	16
FRD40W-1350-175		1.75						15.8		35	44.5	167	16
FRD40W-1350-200		2						18		40.5	50.9	191	16
FRD40W-1350-250		2.5						22.5		52	63.7	239	16
FRD40W-1600-050		0.5						5.4		17	12.8	48	16
FRD40W-1600-100		1						10.7		25	25.3	95	16
FRD40W-1600-150	1600	1.5	1073			8		16		35	38.1	143	16
FRD40W-1600-175		1.75						18.7		44	44.5	167	16
FRD40W-1600-200		2						21.4		49	50.9	191	16
FRD40W-1600-250		2.5						26.7		60	63.7	239	16

注:数据如有改动,恕不另行通知。
Note: Data modification will be done without notice, please understand.

FREIGHT ELEVATOR TRACTION MACHINE SERIES

货梯系列主机

该系列主机广泛应用于物流梯、大载重货梯、汽车梯配置

This series of traction machines are widely used in logistics elevator, heavy load freight elevator, car elevator.



产品设计优势

Product design advantage

- 采用欧洲研发中心的电磁设计和内转子结构设计方案，结构紧凑，性能优越。
- 采用卧式安装结构，运行平稳无气隙变化，传递扭矩更强劲。
- 轴径大、轴载荷达到8000KG左右。
- 轴承采用自密封轴承，在正常使用情况下，在轴承使用寿命内免于维护。
- 制动器采用欧洲先进的设计方案，在正常使用情况下，无需调节制动器气隙。
- Electromagnetic design and inner rotor flat structure design from European R&D center ,it is small in volume ,light in weight ,compact in structure and superior in performance.
- Horizontal installation structure ,smooth operation without air gap change ,more powerful transmission torque.
- The shaft diameter is large and the shaft static load reaches around 8000kg.
- Adopt two balance full sealed bears ,free maintain in warranty time.
- Brake with advance European design ,free air gap adjustment.

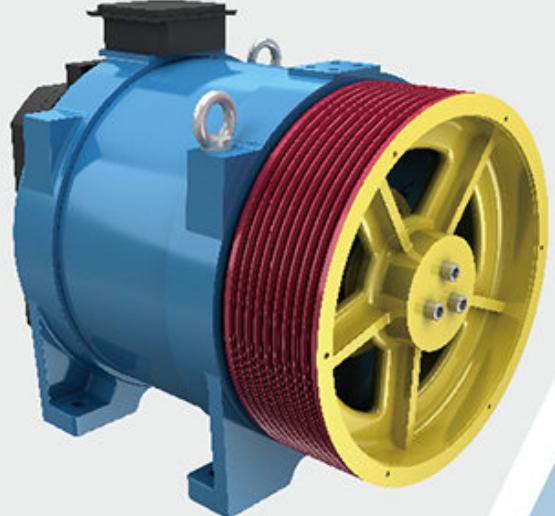


FRD45D

货梯系列主机

(1150~2500KG)

FURDER
driving expert



电源电压(Supply voltage): AC380V

曳引比(Traction ratio): 2:1

防护等级(Protection grade): IP41

梯速(Elevator speed): 0.5-3.0m/s

额定载重(Rated capacity): 1150kg~2500kg

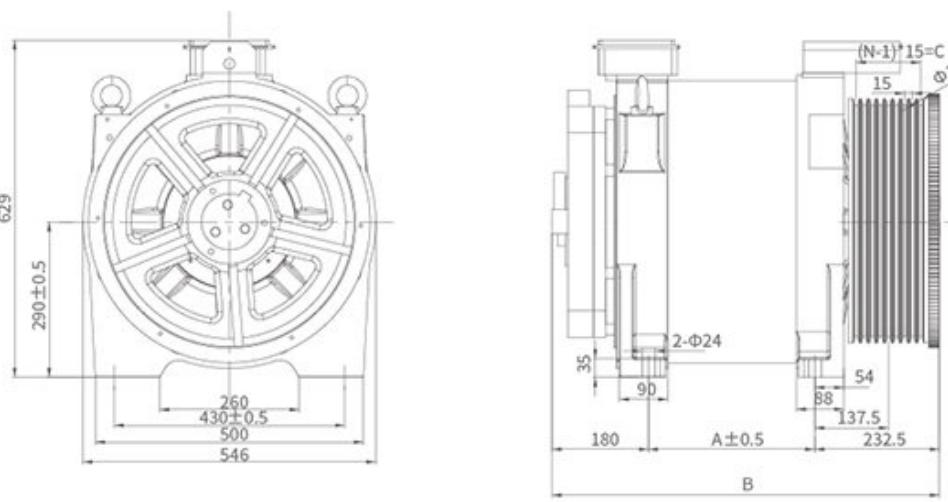
制动器(Brake): DC110V, 2*2.5A

最大轴静载(The maximum axial load): 8000kg

工作制(Duty type): S5-40%

产品尺寸图

PRODUCT DIMENSION DIAGRAM



型号Model	A	B	C	N
FRD45D-2500	310	722.5	135	10
	310	722.5	120	9
FRD45D-2000	270	682.5	135	10
	270	682.5	120	9
FRD45D-1600	230	642.5	120	9
FRD45D-1350	230	642.5	105	8
FRD45D-1250	230	642.5	90	7
FRD45D-1150	230	642.5	75	6

FRD45D (2:1) 系列永磁同步无齿轮曳引机配置表

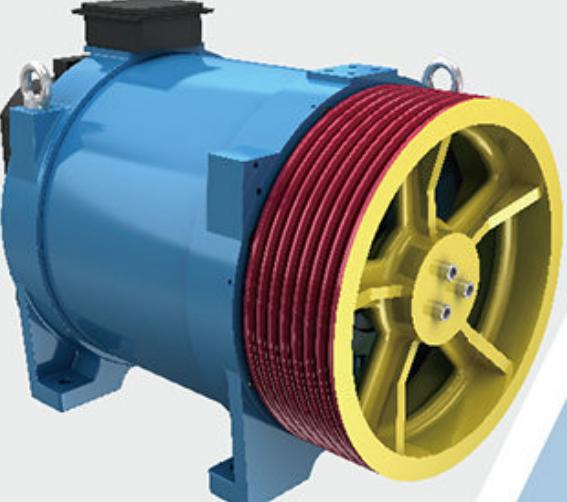
FRD45D (SUSPENSION 2:1) SERIES GEARLESS TRACTION MACHINE SELECT TABLE

产品型号 Model	电梯参数				曳引轮规格				电机参数					
	载重 Load (kg)	速度 Speed (m/s)	推荐高度 Height (m)	转矩 Torque (Nm)	曳引轮直径 Sheave Dia. (mm)	钢丝绳直径 Rope Dia. (mm)	槽数 Groove (pcs)	槽间距 Distance Between Grooves	功率 Power (kw)	额定电压 Rated Voltage (V)	额定电流 Current (A)	额定频率 Frequency (Hz)	额定转速 Rated Speed (rpm)	极对数 Pole Pairs
FRD45D-1150-050	0.5	≤ 50							3.8		11.5	11.2	42	16
FRD45D-1150-100	1	≤ 50							7.7		18.2	22.66	85	16
FRD45D-1150-150	1.5	≤ 80							11.5		28.4	33.86	127	16
FRD45D-1150-160	1.6	≤ 80	864	450	10	6	15	380	12.3		29	36.26	136	16
FRD45D-1150-175	1.75	≤ 80							13.5		32.2	39.46	148	16
FRD45D-1150-200	2	≤ 80							15.4		36	45.33	170	16
FRD45D-1150-250	2.5	≤ 120							19.2		47	56.53	212	16
FRD45D-1150-300	3	≤ 120							23		54	68	255	16
FRD45D-1250-050	0.5	≤ 50							4.2		11.6	11.2	42	16
FRD45D-1250-100	1	≤ 50							8.4		20	22.66	85	16
FRD45D-1250-150	1.5	≤ 80							12.5		30.6	33.86	127	16
FRD45D-1250-160	1.6	≤ 80							13.4		30.6	36.26	136	16
FRD45D-1250-175	1.75	≤ 80							14.6		33.5	39.46	148	16
FRD45D-1250-200	2	≤ 80							16.7		38.6	45.33	170	16
FRD45D-1250-250	2.5	≤ 120							20.88		48	56.53	212	16
FRD45D-1250-300	3	≤ 120							25		56.2	68	255	16
FRD45D-1350-050	0.5	≤ 50	940	450	10	7	15	380	4.5		10.6	11.2	42	16
FRD45D-1350-100	1	≤ 50							9		22.5	22.66	85	16
FRD45D-1350-150	1.5	≤ 80							13.5		35.6	33.86	127	16
FRD45D-1350-160	1.6	≤ 80							14.4		36.2	36.26	136	16
FRD45D-1350-175	1.75	≤ 80							15.8		40	39.46	148	16
FRD45D-1350-200	2	≤ 80							18		43	45.33	170	16
FRD45D-1350-250	2.5	≤ 120							22.6		51.8	56.53	212	16
FRD45D-1350-300	3	≤ 120							27		60	68	255	16
FRD45D-1600-050	0.5	≤ 50	1203	450	10	9	15	380	5.4		17.6	11.2	42	16
FRD45D-1600-100	1	≤ 50							10.7		25.6	22.66	85	16
FRD45D-1600-150	1.5	≤ 80							16		41	33.86	127	16
FRD45D-1600-160	1.6	≤ 80							17		42.5	36.26	136	16
FRD45D-1600-175	1.75	≤ 80							18.7		47	39.46	148	16
FRD45D-1600-200	2	≤ 80							21.4		50.3	45.33	170	16
FRD45D-1600-250	2.5	≤ 120							26.7		62.5	56.53	212	16
FRD45D-1600-300	3	≤ 120							32		73	68	255	16
FRD45D-2000-050	0.5	≤ 50	1504	450	10	9	15	380	6.7		16.8	11.2	42	16
FRD45D-2000-100	1	≤ 50							13.4		32	22.66	85	16
FRD45D-2000-150	1.5	≤ 80							20		50	33.86	127	16
FRD45D-2000-160	1.6	≤ 80							21.4		51	36.26	136	16
FRD45D-2000-175	1.75	≤ 80							23.4		56	39.46	148	16
FRD45D-2000-200	2	≤ 80							26.7		60.8	45.33	170	16
FRD45D-2000-250	2.5	≤ 120												

FRD48 货梯系列主机

(1600~3000KG)

FURDER
driving expert



电源电压(Supply voltage): AC380V

曳引比(Traction ratio): 2:1

防护等级(Protection grade): IP41

梯速(Elevator speed): 0.5-3.0m/s

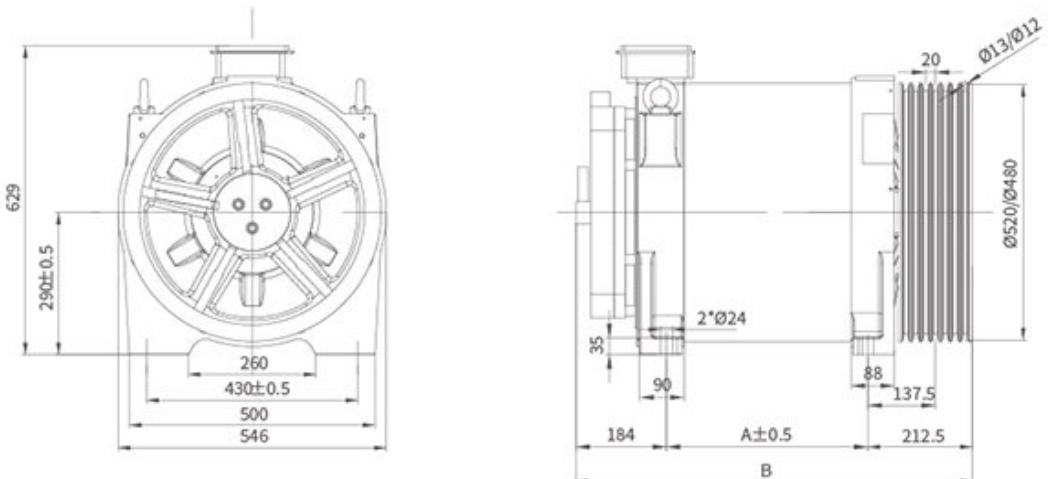
额定载重(Rated capacity): 1600kg~3000kg

制动器(Brake): DC110V, 2*2.5A

最大轴静载(The maximum axial load): 9000kg

工作制(Duty type): S5-40%

产品尺寸图
PRODUCT DIMENSION DIAGRAM



型号Model	A	B
FRD48-3000	410	806.5
FRD48-2500	310	706.5
FRD48-2000	270	666.5
FRD48-1600	230	626.5

FRD48 (2:1) 系列永磁同步无齿轮曳引机配Φ480曳引轮配置表
FRD48 (SUSPENSION 2:1) SERIES GEARLESS TRACTION MACHINE SELECT TABLE-Φ480

产品型号 Model	电梯参数				曳引轮规格				电机参数					
	载重 Load (kg)	速度 Speed (m/s)	推荐高度 Height (m)	转矩 Torque (Nm)	曳引轮直径 Sheave Dia. (mm)	钢丝绳直径 Rope Dia. (mm)	槽数 Groove (pcs)	槽间距 Distance Between Grooves	功率 Power (kw)	额定电压 Rated Voltage (V)	额定电流 Current (A)	额定频率 Frequency (Hz)	额定转速 Rated Speed (rpm)	极对数 Pole Pairs
FRD48-1600-050		0.5	≤ 50						5.3		14	10.67	40	
FRD48-1600-100		1	≤ 50						10.7		27	21.33	80	
FRD48-1600-150		1.5	≤ 80						16		41	31.73	119	
FRD48-1600-175	1600	1.75	≤ 80	1283	480	12	5	20	18.7	380	47	37.07	139	16
FRD48-1600-200		2	≤ 80						21.4		54	42.4	159	
FRD48-1600-250		2.5	≤ 120						26.7		67	53.07	199	
FRD48-1600-300		3	≤ 120						32		81	63.73	239	
FRD48-2000-050		0.5	≤ 50						6.7		17	10.67	40	
FRD48-2000-100		1	≤ 50						13.4		34	21.33	80	
FRD48-2000-150		1.5	≤ 80						20.3		51	31.73	119	
FRD48-2000-175	2000	1.75	≤ 80	1604	480	12	6	20	23.4	380	59	37.07	139	16
FRD48-2000-200		2	≤ 80						26.7		67	42.4	159	
FRD48-2000-250		2.5	≤ 120						33.4		84	53.07	199	
FRD48-2000-300		3	≤ 120						40.4		101	63.73	239	
FRD48-2500-050		0.5	≤ 50						8.4		21	10.67	40	
FRD48-2500-100		1	≤ 50						16.7		42	21.33	80	
FRD48-2500-150		1.5	≤ 80						25.2		63	31.73	119	
FRD48-2500-175	2500	1.75	≤ 80	2005	480	12	6	20	29.2	380	74	37.07	139	16
FRD48-2500-200		2	≤ 80						33.4		84	42.4	159	
FRD48-2500-250		2.5	≤ 120						41.8		104	53.07	199	
FRD48-2500-300		3	≤ 120						50.3		126	63.73	239	
FRD48-3000-050		0.5	≤ 50						10		26	10.67	40	
FRD48-3000-100		1	≤ 50						20.5		51	21.33	80	
FRD48-3000-150		1.5	≤ 80						30.2		76	31.73	119	
FRD48-3000-175	3000	1.75	≤ 80	2406	480	12	7	20	35.2	380	88	37.07	139	16
FRD48-3000-200		2	≤ 80						40.5		101	42.4	159	
FRD48-3000-250		2.5	≤ 120						50.2		126	53.07	199	
FRD48-3000-300		3	≤ 120						60.5		150	63.73	239	

FRD48 (2:1) 系列永磁同步无齿轮曳引机配Φ520曳引轮配置表
FRD48 (SUSPENSION 2:1) SERIES GEARLESS TRACTION MACHINE SELECT TABLE-Φ520

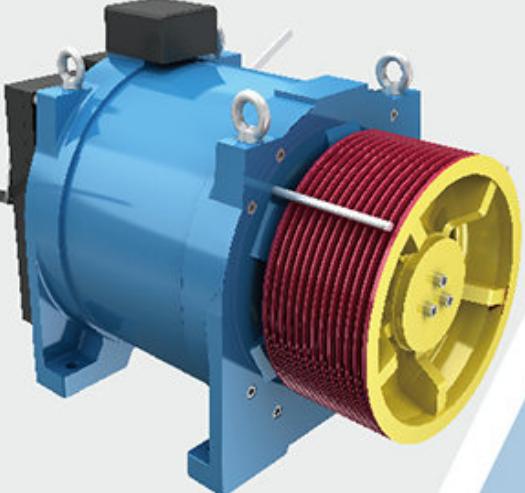
产品型号 Model	电梯参数				曳引轮规格				电机参数					
	载重 Load (kg)	速度 Speed (m/s)	推荐高度 Height (m)	转矩 Torque (Nm)	曳引轮直径 Sheave Dia. (mm)	钢丝绳直径 Rope Dia. (mm)	槽数 Groove (pcs)	槽间距 Distance Between Grooves	功率 Power (kw)	额定电压 Rated Voltage (V)	额定电流 Current (A)	额定频率 Frequency (Hz)	额定转速 Rated Speed (rpm)	极对数 Pole Pairs
FRD48-1600-050		0.5	≤ 50						5.3		14	9.86	37	
FRD48-1600-100		1	≤ 50						10.7		27	19.46	73	
FRD48-1600-150		1.5	≤ 80						16		41	29.33	110	
FRD48-1600-175	1600	1.75	≤ 80	1390	520	13	5	20	18.7	380	47	34.4	129	16
FRD48-1600-200		2	≤ 80						21.4		54	39.2	147	
FRD48-1600-250		2.5	≤ 120						26.7		67	49.06	184	
FRD48-1600-300		3	≤ 120						32		81	58.66	220	
FRD48-2000-050		0.5	≤ 50						6.7		17	9.86	37	
FRD48-2000-100		1	≤ 50						13.4		34	19.46	73	
FRD48-2000-150		1.5	≤ 80						20.2		51	29.33	110	
FRD48-2000-175	2000	1.75	≤ 80	1737	520	13	6	20	23.4	380	59	34.4	129	16
FRD48-2000-200		2	≤ 80						26.7		67	39.2	147	
FRD48-2000-250		2.5	≤ 120						33.4		84	49.06	184	
FRD48-2000-300		3	≤ 120						40.2		101	58.66	220	
FRD48-2500-050		0.5	≤ 50						8.4		21	9.86	37	
FRD48-2500-100		1	≤ 50											

FRD52D

货梯系列主机

(3000~5000KG)

FURDER
driving expert



电源电压(Supply voltage): AC380V

曳引比(Traction ratio): 2:1

防护等级(Protection grade): IP41

梯速(Elevator speed): 0.5-2.0m/s

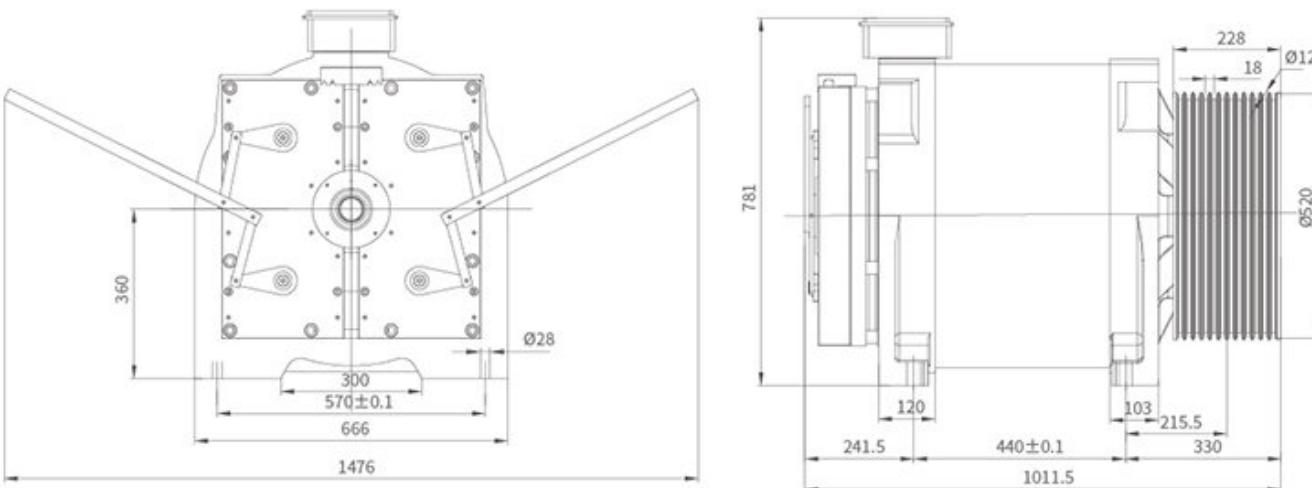
额定载重(Rated capacity): 3000kg~5000kg

制动器(Brake): DC110V, 2*3.5A

最大轴静载(The maximum axial load): 12000kg/15000kg

工作制(Duty type): S5-40%

产品尺寸图
PRODUCT DIMENSION DIAGRAM



FRD52D (2:1) 系列永磁同步无齿轮曳引机配置表

FRD52D (SUSPENSION 2:1) SERIES GEARLESS TRACTION MACHINE SELECT TABLE

产品型号 Model	电梯参数					曳引轮规格				电机参数						
	载重 Load (kg)	速度 Speed (m/s)	推荐高度 Height (m)	轴静载 (Kg)	转矩 Torque (Nm)	曳引轮 直径 Sheave Dia. (mm)	钢丝绳 直径 Rope Dia. (mm)	槽数 Groove (pcs)	槽间距 Distance Between Grooves	功率 Power (kw)	额定电压 Rated Voltage (V)	额定电流 Current (A)	额定频率 Frequency (Hz)	额定转速 Rated Speed (rpm)	极对数 Pole Pairs	
FRD52D-3000-050		0.5	≤ 25							10			22.5	9.8	37	16
FRD52D-3000-100		1	≤ 25							20.05			45.5	19.6	74	16
FRD52D-3000-150	3000	1.5	≤ 50			2607		8		30.1			67.2	29.4	110	16
FRD52D-3000-175		1.75	≤ 50							35.1			79.5	34.3	129	16
FRD52D-3000-200		2	≤ 70							40.1			87.5	39.2	147	16
FRD52D-3500-050		0.5	≤ 25							11.7			26.5	9.8	37	16
FRD52D-3500-100		1	≤ 25							23.4			53.5	19.6	74	16
FRD52D-3500-150	3500	1.5	≤ 50			3041		9		35.1			79.5	29.4	110	16
FRD52D-3500-175		1.75	≤ 50							41			93.6	34.3	129	16
FRD52D-3500-200		2	≤ 70							46.8			100.5	39.2	147	16
FRD52D-4000-050		0.5	≤ 25							13.4			30.5	9.8	37	16
FRD52D-4000-100		1	≤ 25							26.7			61.2	19.6	74	16
FRD52D-4000-150	4000	1.5	≤ 50	15000	3476	520	12	10	18	40.1	380		87.5	29.4	110	16
FRD52D-4000-175		1.75	≤ 50							46.8			115	34.3	129	16
FRD52D-4000-200		2	≤ 70							53.5			130	39.2	147	16
FRD52D-4500-050		0.5	≤ 25							15			33.75	9.8	37	16
FRD52D-4500-100		1	≤ 25							30.1			67.2	19.6	74	16
FRD52D-4500-150	4500	1.5	≤ 50			3910		11		45.1			102	29.4	110	16
FRD52D-4500-175		1.75	≤ 50							52.6			119.2	34.3	129	16
FRD52D-4500-200		2	≤ 70							60.1			132.1	39.2	147	16
FRD52D-5000-050		0.5	≤ 25							16.7			38.3	9.8	37	16
FRD52D-5000-100		1	≤ 25							33.4			75.5	19.6	74	16
FRD52D-5000-150	5000	1.5	≤ 50			4344		12		50.1			113.5	29.4	110	16
FRD52D-5000-175		1.75	≤ 50							58.5			130	34.3	129	16
FRD52D-5000-200		2	≤ 70							66.8			150	39.2	147	16

注:数据如有改动,恕不另行通知。
Note: Data modification will be done without notice, please understand.

HIGH SPEED ELEVATOR TRACTION MACHINE SERIES

高速梯系列主机

该系列主机主要应用于高层建筑的高速大载重电梯、试验塔电梯配置

This series of traction machines are mainly used for high speed and heavy load elevators and test tower elevators in high-rise buildings.



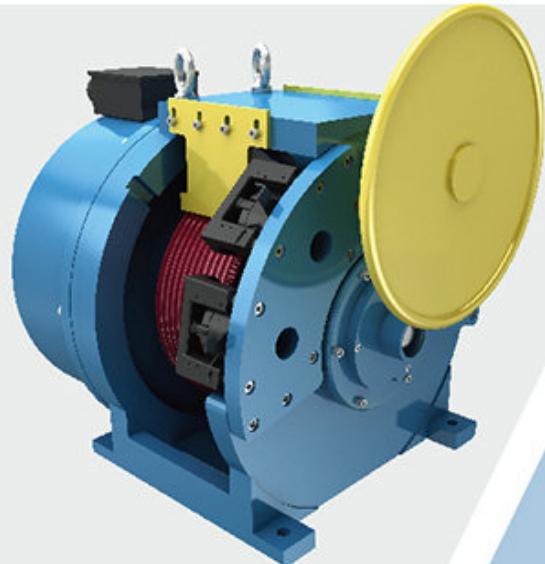
产品设计优势

Product design advantage

- 采用欧洲研发中心的电磁设计和内转子结构设计方案，结构紧凑，性能优越。
- 采用卧式双支撑安装结构，运行平稳无气隙变化，传递扭矩更强劲。
- 引导轮单/复绕可选。
- 轴径大、轴载荷达到45000KG左右。
- 轴承采用进口NSK轴承，运行噪音小、使用寿命长。
- 制动器采用德国麦尔原装进口品牌，制动力矩大、噪音低，安全可靠。
- Electromagnetic design and inner rotor flat structure design from European R&D center ,it is small in volume ,light in weight ,compact in structure and superior in performance.
- Horizontal installation structure ,smooth operation without air gap change ,more powerful transmission torque.
- Pulley single/compound wrap is optional.
- The shaft diameter is large and the shaft static load reaches around 45000kg.
- Bearings adopts imported NSK bearings, low running noise ,long service life.
- The brake is imported from Germany Mayr. it has large braking torque, low noise ,safety and reliability.



FRD52A 高速梯系列主机 (1250~2000KG)



电源电压(Supply voltage): AC380V

曳引比(Traction ratio): 2:1

防护等级(Protection grade): IP41

梯速(Elevator speed): 3.0-4.0m/s

额定载重(Rated capacity): 1250kg~2000kg

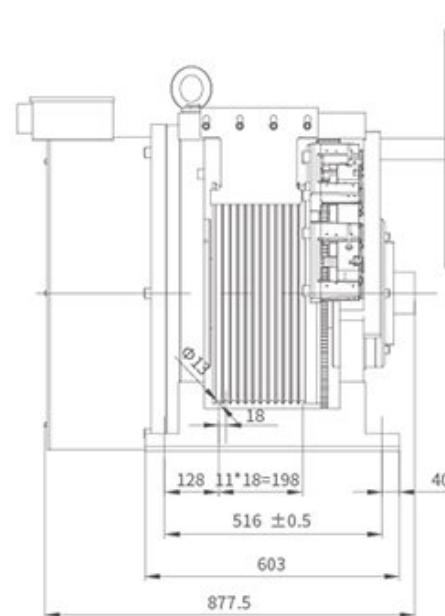
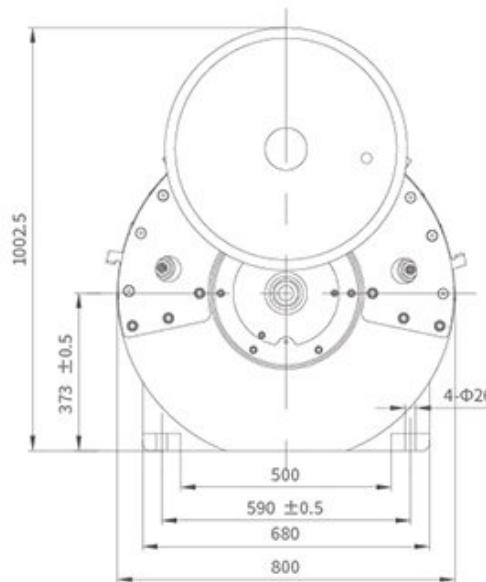
制动器(Brake): DC207V/103V, 4*0.7A/0.25A

最大轴静载(The maximum axial load): 15000kg

工作制(Duty type): S5-40%

产品尺寸图

PRODUCT DIMENSION DIAGRAM



FRD52A系列永磁同步曳引机规格表(2:1复绕)

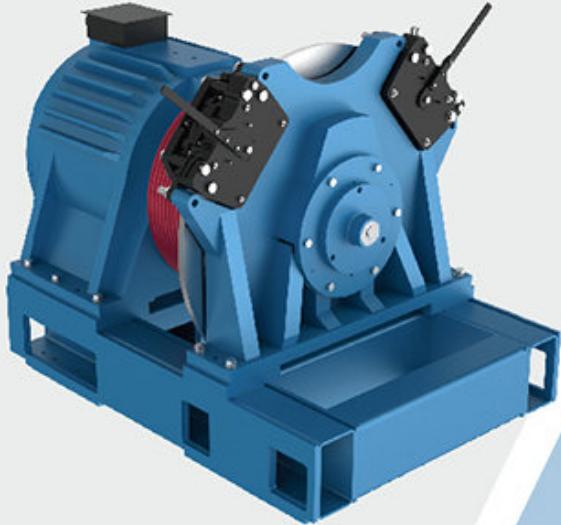
FRD52A [SUSPENSION 2:1] SERIES GEARLESS TRACTION MACHINE SELECT TABLE

产品型号 Model	电梯参数				曳引轮规格				电机参数					
	载重 Load (kg)	速度 Speed (m/s)	推荐高度 Height (m)	转矩 Torque (Nm)	曳引轮直径 Sheave Dia. (mm)	钢丝绳直径 Rope Dia. (mm)	槽数 Groove (pcs)	槽间距 Distance Between Grooves	功率 Power (kw)	额定电压 Rated Voltage (V)	额定电流 Current (A)	额定频率 Frequency (Hz)	额定转速 Rated Speed (rpm)	极对数 Pole Pairs
FRD52A-1250-300		3	≤150						25.9		56	58.66	220	16
FRD52A-1250-350	1250	3.5	≤150	1086	520	13	10	18	30.3	380	64	68.53	257	16
FRD52A-1250-400		4	≤150						34.6		73	78.4	294	16
FRD52A-1350-300		3	≤150						28		60	58.66	220	16
FRD52A-1350-350	1350	3.5	≤150	1173	520	13	10	18	32.7	380	69	68.53	257	16
FRD52A-1350-400		4	≤150						37.4		78	78.4	294	16
FRD52A-1600-300		3	≤150						33.2		70	58.66	220	16
FRD52A-1600-350	1600	3.5	≤150	1390	520	13	12	18	38.7	380	80	68.53	257	16
FRD52A-1600-400		4	≤150						44.3		92	78.4	294	16
FRD52A-2000-300		3	≤150						41.5		87	58.66	220	16
FRD52A-2000-350	2000	3.5	≤150	1737	520	13	12	18	48.4	380	106	68.53	257	16
FRD52A-2000-400		4	≤150						55.3		116	78.4	294	16

注:数据如有改动,恕不另行通知。
Note: Data modification will be done without notice, please understand.

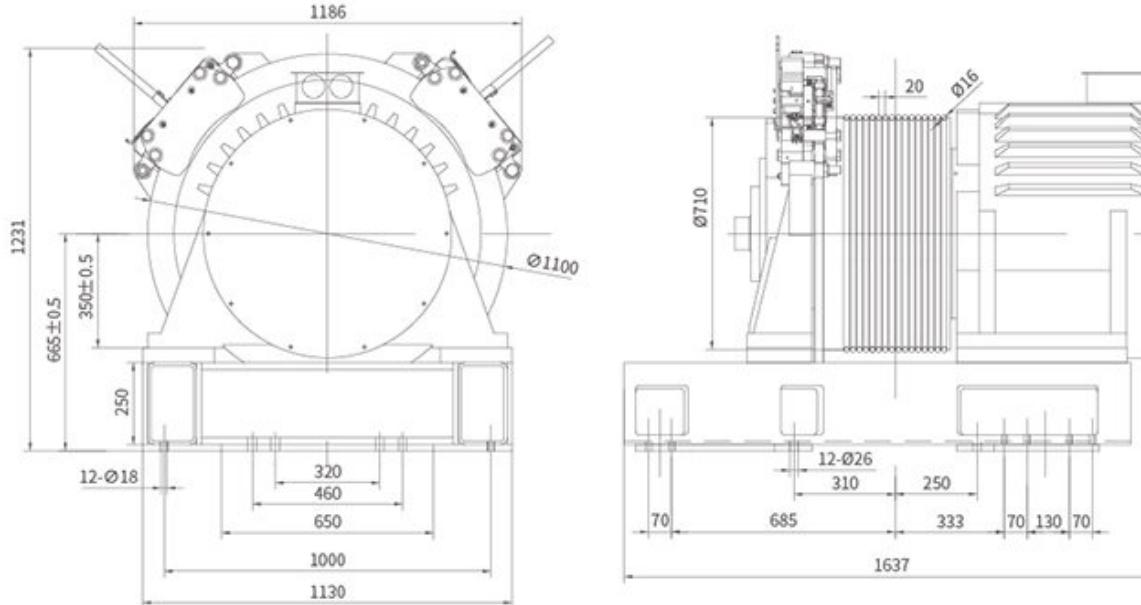
FRD71 高速梯系列主机

(1600~2000KG)



电源电压(Supply voltage): AC380V
曳引比(Traction ratio): 1:1
防护等级(Protection grade): IP41
梯速(Elevator speed): 4.0-8.0m/s
额定载重(Rated capacity): 1600kg~2000kg
制动器(Brake): AC220V, 2*3A
最大轴静载(The maximum axial load): 45000kg
工作制(Duty type): S5-40%

产品尺寸图
PRODUCT DIMENSION DIAGRAM



FRD71(1:1)系列永磁同步无齿轮曳引机配置表

FRD71 (SUSPENSION 1:1) SERIES GEARLESS TRACTION MACHINE SELECT TABLE

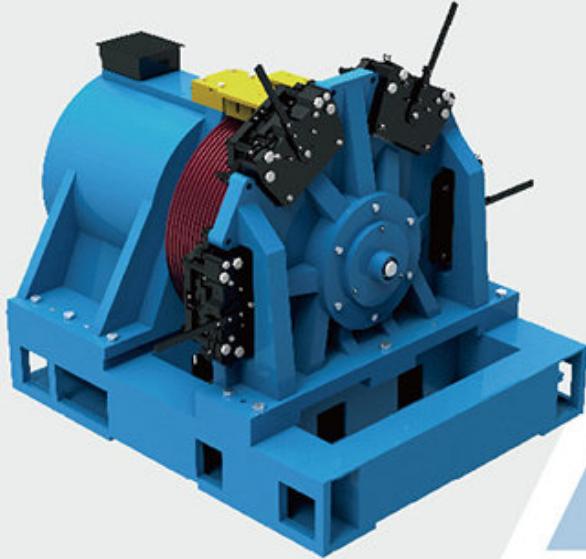
产品型号 Model	电梯参数			曳引轮规格				电机参数					
	载重 Load (kg)	速度 Speed (m/s)	转矩 Torque (Nm)	曳引轮直径 Sheave Dia. (mm)	钢丝绳直径 Rope Dia. (mm)	槽数 Groove (pcs)	槽间距 Distance Between Grooves	功率 Power (kw)	额定电压 Rated Voltage (V)	额定电流 Current (A)	额定频率 Frequency (Hz)	额定转速 Rated Speed (rpm)	极对数 Pole Pairs
FRD71-1600-400		4						42.7		92	28.8	108	
FRD71-1600-500		5						53.5		120	35.7	134	
FRD71-1600-600	1600	6	3743	710	16	14	20	64.2	380	142	42.9	161	16
FRD71-1600-700		7						74.8		168	50.13	188	
FRD71-1600-800		8						85.6		195	57.33	215	
FRD71-2000-400		4						53.5		115	28.8	108	
FRD71-2000-500		5						66.8		148	35.7	134	
FRD71-2000-600	2000	6	4680	710	16	16	20	80.2	380	175	42.9	161	16
FRD71-2000-700		7						93.6		215	50.13	188	
FRD71-2000-800		8						106.8		237	57.33	215	

注:数据如有改动,恕不另行通知。
Note: Data modification will be done without notice, please understand.

FRD82 高速梯系列主机

(1250~2000KG)

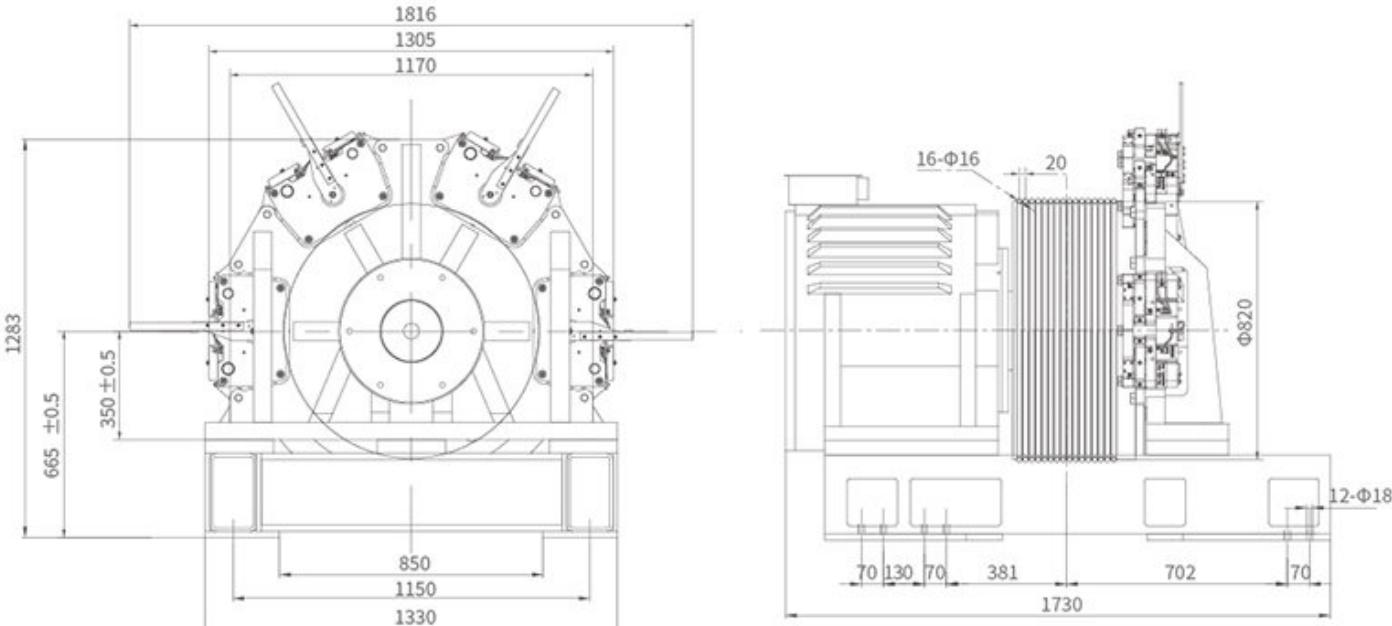
FURDER
driving expert



电源电压(Supply voltage): AC380V
 牽引比(Traction ratio): 1:1
 防护等级(Protection grade): IP41
 梯速(Elevator speed): 9.0-10.0m/s
 额定载重(Rated capacity): 1250kg~2000kg
 制动器(Brake): AC220V, 4*3.0A
 最大轴静载(The maximum axial load): 45000kg
 工作制(Duty type): S5-40%

产品尺寸图

PRODUCT DIMENSION DIAGRAM



FRD82 (1:1) 系列永磁同步无齿轮曳引机配置表

FRD82 (SUSPENSION 1:1) SERIES GEARLESS TRACTION MACHINE SELECT TABLE

产品型号 Model	电梯参数			曳引轮规格				电机参数					
	载重 Load (kg)	速度 Speed (m/s)	转矩 Torque (Nm)	曳引轮直径 Sheave Dia. (mm)	钢丝绳直径 Rope Dia. (mm)	槽数 Groove (pcs)	槽间距 Distance Between Grooves	功率 Power (kw)	额定电压 Rated Voltage (V)	额定电流 Rated Current (A)	额定频率 Frequency (Hz)	额定转速 Rated Speed (rpm)	极对数 Pole Pairs
FRD82-1250-900		9						75		145	55.73	209	
	1250		3425	820	16	14	20		380				16
FRD82-1250-1000		10						84		160	62.13	233	
	1350		3700	820	16	14	20		380				16
FRD82-1350-900		9						81		156	55.73	209	
	1350		3700	820	16	14	20		380				16
FRD82-1350-1000		10						90		180	62.13	233	
	1600		4385	820	16	16	20		380				16
FRD82-1600-900		9						96		182	55.73	209	
	1600		4385	820	16	16	20		380				16
FRD82-1600-1000		10						106		195	62.13	233	
	2000		5481	820	16	16	20		380				16
FRD82-2000-900		9						120		245	55.73	209	
	2000		5481	820	16	16	20		380				16
FRD82-2000-1000		10						134		260	62.13	233	

注:数据如有改动,恕不另行通知。
 Note: Data modification will be done without notice, please understand.

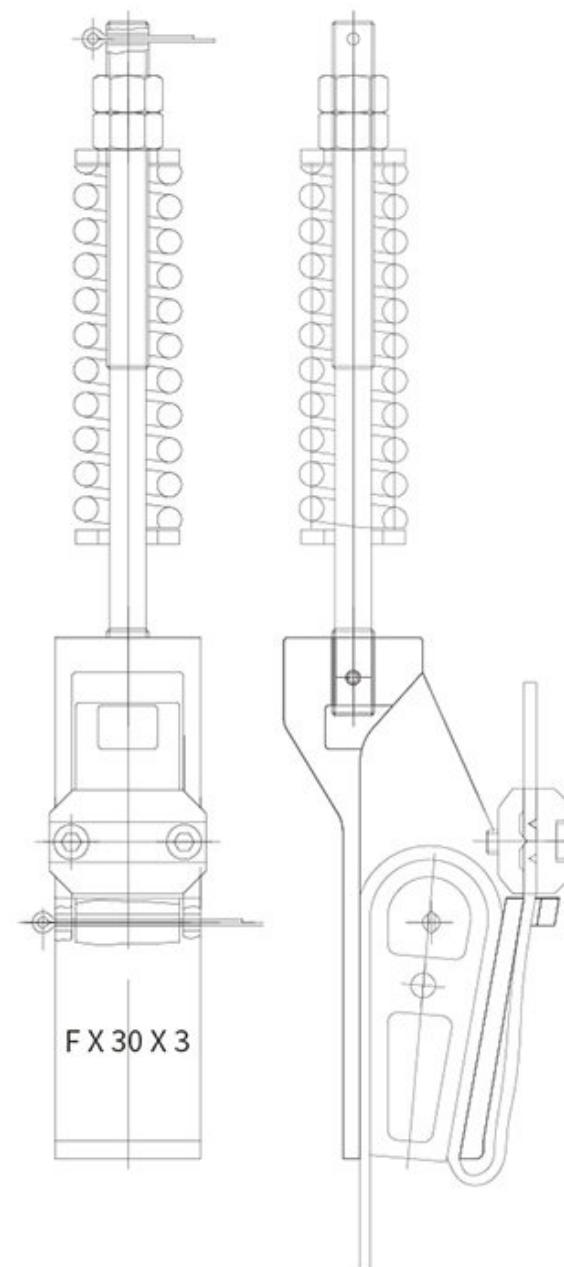
导向轮组件

DIVERTING PULLEY



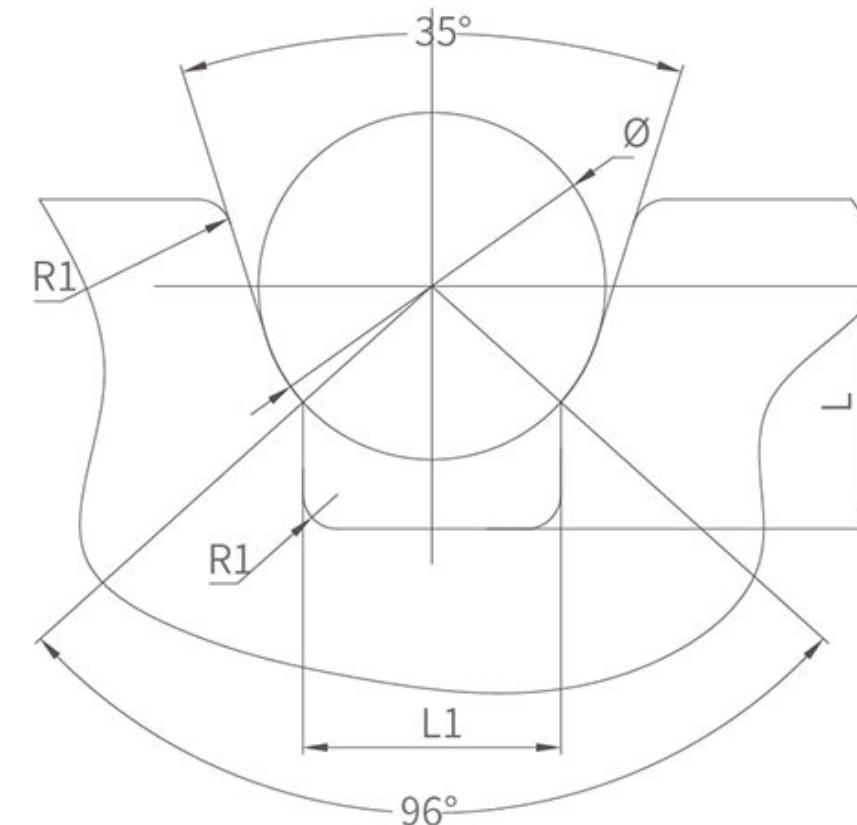
钢带绳夹

BELT CLAMP



曳引轮槽型切口角

UNDERCUT ANGLE OF GROOVE



注:产品如有改动,恕不另行通知。
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