卓尔不凡
青出于蓝
To be better
To be stronger

卓蓝自动化

东莞市卓蓝自动化设备有限公司
Dongguan Zhuolan Automation Equipment Co., Ltd

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Tel: +86-769-2722 5002
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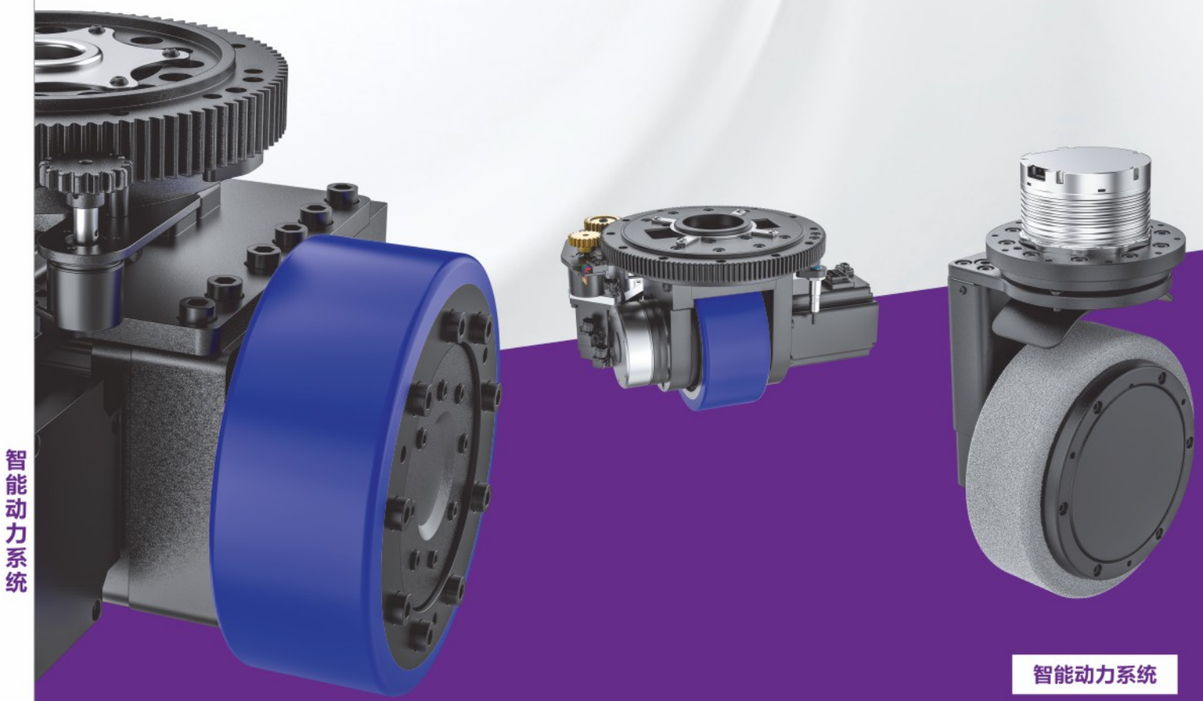
东莞市卓蓝自动化设备有限公司

智能动力系统

卓蓝自动化

匠心铸造精密传动精品

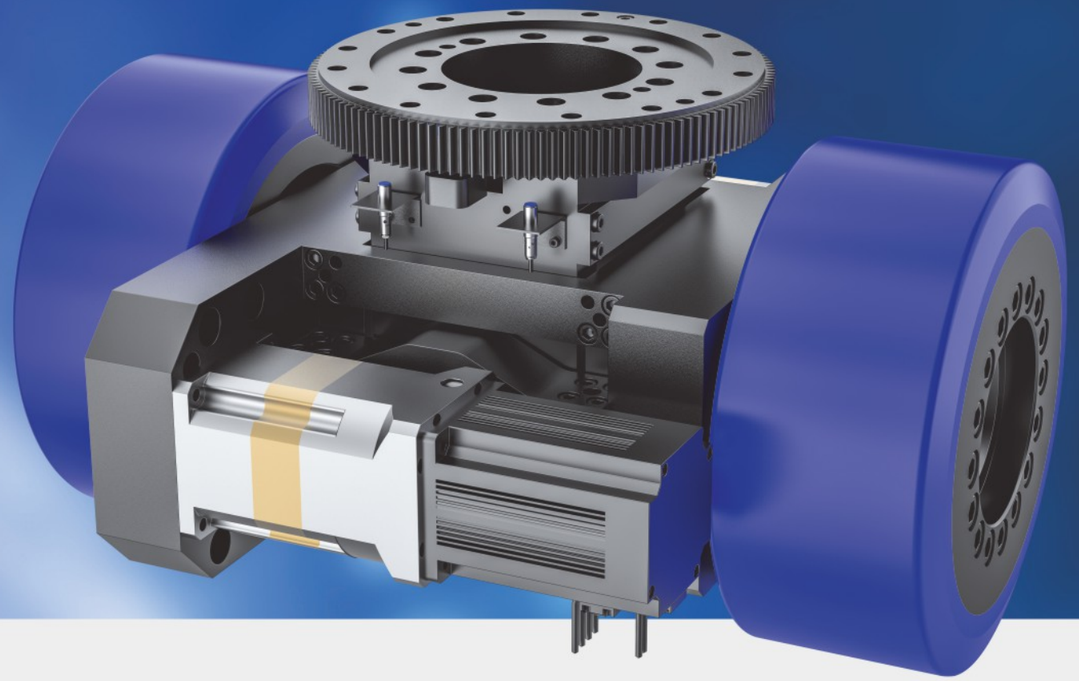
INGENUITY CASTING PRECISION TRANSMISSION PRODUCTS



智能动力系统

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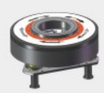

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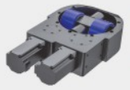

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ABOUT US

关于我们

东莞市卓蓝自动化设备有限公司，创立于2012年，是一家专业从事研发、生产、销售高精密行星减速机、谐波减速机、地面智能移动和升降设备驱动总成、电动滚筒、滚动直线导轨等产品的厂家，同时也是高精密传动领域解决方案的重要提供者。

公司注册资本1601.4324万元，目前有从业人员近400人，拥有71000平米的生产、办公和宿舍的产业园区。公司集各大高校的技术背景及卓蓝人高效务实的进取精神，凝聚了一个极富行业及科学管理经验的领导核心，构成了公司迅速成长、可持续发展的黄金结构。公司的发展理念符合“工业4.0”和《“十四五”智能制造发展规划》、《“十四五”机器人产业发展规划》等国家战略发展方向，并将ISO9001质量管理体系的运行落实到公司的各个环节，拥有雄厚的经济实力、先进的制造设备、专业的科技人才，以优异的产品、卓越的品质、真诚的服务满足每一个客户的需求。

公司研发设计的滚动直线导轨为重点发展产品，从台湾引进24条国际先进、国内领先的直线导轨生产线以及24条滑块生产线，依托多年积累成熟的生产工艺体系、质量管理体系以及各种先进检测设备，可生产UP级直线导轨。目前以15-35规格的导轨搭配各种形式的滑块，为广大客户提供优质产品。

Dongguan Zhuolan Automation Equipment Co., Ltd., founded in 2012, is a professional manufacturer engaged in research and development, production, and sales of high-precision planetary reducers, harmonic reducers, ground intelligent mobile and lifting equipment drive assemblies, electric rollers, rolling linear guides, and other products. It is also an important provider of solutions in the field of high-precision transmission.

The registered capital of the company is 16.014324 million yuan, with nearly 400 employees and a 71000 square meter industrial park for production, office, and dormitory. The company has gathered the technical backgrounds of major universities and the efficient and pragmatic enterprising spirit of Zhuolan people, and has formed a leadership core with rich industry and scientific management experience, forming the golden structure of the company's rapid growth and sustainable development. The company's development philosophy is in line with national strategic development directions such as "Industry 4.0", "14th Five Year Plan for Intelligent Manufacturing Development", and "14th Five Year Plan for Robot Industry Development". The operation of the ISO9001 quality management system is implemented in all aspects of the company, and it has strong economic strength, advanced manufacturing equipment, and professional scientific and technological talents to meet the needs of every customer with excellent products, excellent quality, and sincere service.

The company focuses on developing rolling linear guides through research and development. It has introduced 24 internationally advanced and domestically leading linear guide production lines and 24 slider production lines from Taiwan. With years of accumulated mature production process system, quality management system, and various advanced testing equipment, it can produce UP level linear guides. At present, we provide high-quality products to our customers by combining 15-35 specification guide rails with various forms of sliders.



Development History

发展历程

2012/2014

东莞市卓蓝自动化设备有限公司正式成立，公司拥有“卓蓝”ZHUOLAN”自主品牌，发明专利1项，主要研发生产精密直齿减速机。

Dongguan Zhuolan Automation Equipment Co., Ltd. has been officially established, with the independent brand "Zhuolan" ZHUOLAN and one invention patent. The company mainly researches and produces precision spur gear reducers.

2015/2016

引进高端人才团队研发斜齿精密行星减速机，公司获评为国家高新科技企业，拥有专利数达到9项。

We have introduced a team of high-end talents to develop a precision planetary gearbox with helical teeth. Our company has been awarded the title of National High tech Enterprise and holds 9 patents.

2017

引进高端人才团队研发谐波减速器，销售额达到6千万。获评东莞市万江区“倍增企业”直齿销售额居华南地区第一名。

Introduced a high-end talent team to develop harmonic reducers, with sales reaching 60 million. Ranked as the "Double Enterprise" in Wanjiang District, Dongguan City, with the highest direct tooth sales in South China.

2018/2019

2018年，销售额达到8500万元，承接的大型项目敦煌追日计划—塔式熔盐日光发电镜场项目，进入了《厉害了我的国》专题片。

2019年，斜齿产品销售额近2000万，90%以上控制在3弧分，超越国内同行，谐波全系列产品已初步研发完毕，获评东莞市“协同倍增企业”。

In 2018, the sales reached 85 million yuan, and the large-scale project undertaken, the Dunhuang Sun Chasing Plan - Tower Molten Salt Solar Power Generation Mirror Field Project, entered the "Amazing China" feature film.

In 2019, the sales revenue of helical gear products was nearly 20 million, with over 90% controlled at 3 arc minutes, surpassing domestic peers. The full range of harmonic products has been preliminarily developed and awarded the title of "Collaborative Doubling Enterprise" in Dongguan City.

2020

全年销售额约1.2亿，稳居本土品牌华南地区第一，8月引进AGV舵轮机构产品，谐波产品和智能动力系统产品已小批量投入市场专利数量达到30个，在申请当中的发明专利13个，获得“东莞市机器人产业十大创新企业”。

The annual sales revenue is about 120 million yuan, ranking first among local brands in South China. In August, AGV steering wheel mechanism products, harmonic products, and intelligent power system products were introduced to the market in small quantities. The number of patents for these products has reached 30, and 13 invention patents are currently being applied for. It has been awarded the title of "Top Ten Innovative Enterprises in Dongguan Robot Industry".

2021/2022

2021年，获批东莞市上市后备企业，销售额含税1.88亿元。

2022年，含税销售额达到2.28亿元。

获东莞市倍增试点企业、省专精特新、中小型创新型企业

In 2021, it was approved as a reserve enterprise for listing in Dongguan City, with sales revenue including tax of 188 million yuan.

In 2022, the sales revenue including tax reached 228 million yuan.

Awarded as a doubled pilot enterprise in Dongguan City, a provincial specialized, refined, unique and new enterprise, and a small and medium-sized innovative enterprise

2023/2024

2023年销售额达到2.4亿；新建工业园投入使用。

2024年销售额达到2.6亿；

以粤科鑫泰为代表的新股东进行战略重组。

In 2023, the sales revenue will reach 240 million yuan; New industrial park put into use.

The sales revenue will reach 260 million in 2024;

New shareholders represented by Yueke Xintai are undergoing strategic restructuring.

2025

滚筒在东莞制造中心量产；

滚动直线导轨产品投产；

近一年行星减速机出货超过90万台。

The drum is mass-produced at the Dongguan manufacturing center;

Rolling linear guide products are put into production;

In the past year, the shipment of planetary gearboxes has exceeded 900000 units.

ZHUOLAN

企业历程是企业所走过的历史足迹，回首过去，展望未来，我们一直在不断地创新、学习、并从中成长。风雨无阻，携手同行。

Corporate history is the historical footprint of enterprises, looking back and looking forward, We are constantly innovating, learning, and growing from it. Rain or shine, go hand in hand.

Advanced Manufacturing Platform

先进的制造平台







精益化的组装制程，追求完美品质意识，已深入卓蓝人心中。生产效率及品质严格以高标准执行。

从技术到实力，到产业配套，再到制造规模，卓蓝始终走在行业的最前端，继续保持着行业领先，并不断扩大行业优势。

The lean assembly process and the pursuit of perfect quality awareness have been deeply rooted in Zhuoran people. Production efficiency and quality are strictly implemented to high standards.

From technology to strength, to industrial support, to manufacturing scale, Zhuo Lan has always been at the forefront of the industry, continues to maintain industry leadership, and continues to expand its industry advantages.











Provide a solid guarantee for innovative research and development

为创新研发提供坚实保障

我们有一支专业的品质管理团队，运用科学的品质管理标准，借助先进的检测设备，对产品在各个环节的质量实行严格管控，确保为客户提供优质产品。

We have a professional quality management team, using scientific quality management standards, with advanced testing equipment, strict quality control of the quality of products in all aspects, to ensure that customers provide quality products.

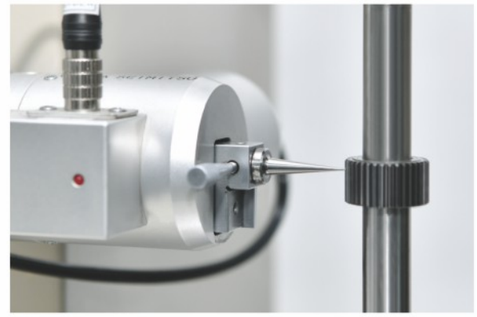


Precision Testing Center

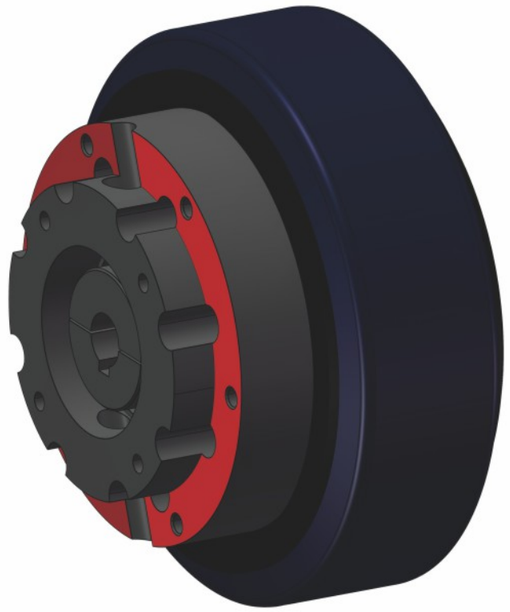
精密的检测中心







- XZS 95（驱动轮Driving wheel）
- XZS 125（驱动轮Driving wheel）
- XZS 150（驱动轮Driving wheel）
- XZS 165（驱动轮Driving wheel）
- XZS 300（驱动轮Driving wheel）

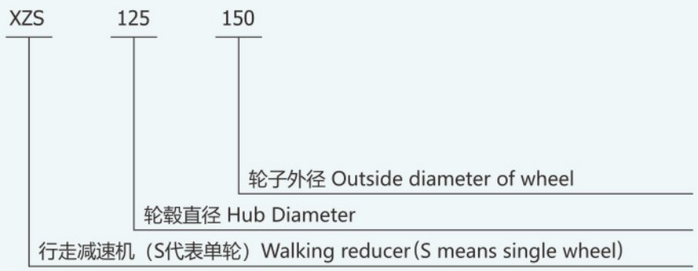


XZS

Series

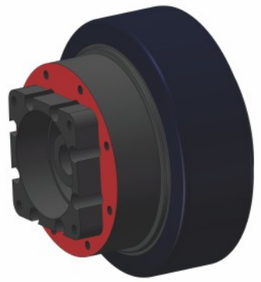
XZS系列型号说明

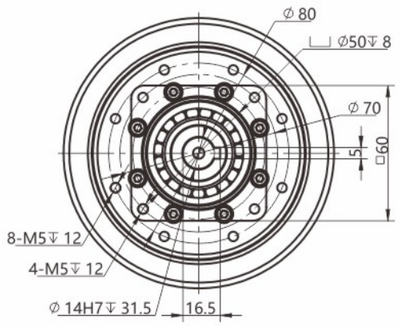
XZS series model description

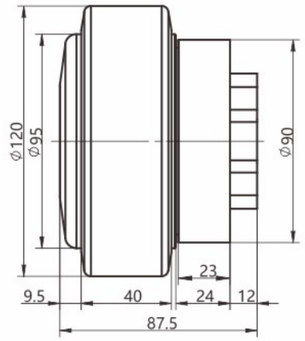


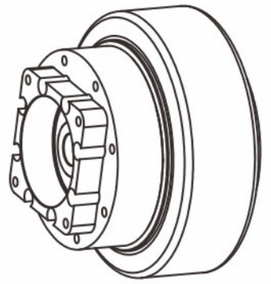
XZS 95 Serices

XZS-95-120-400









牵引电机参数
Parameter list of traction motor

类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	400
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	10.6
额定扭矩 Rated Torque	N·m	1.27
防护等级 Protection level	IP	65

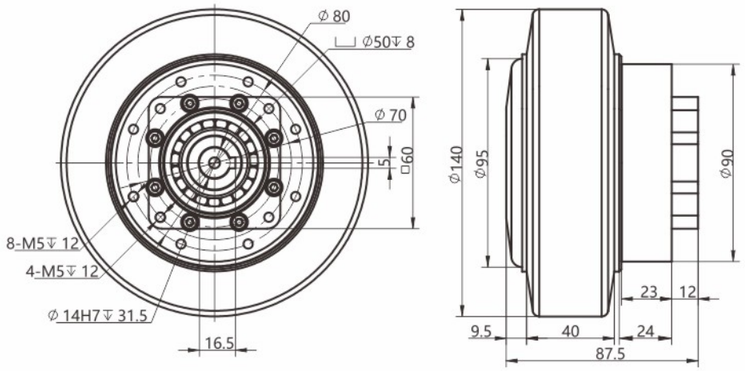
牵引减速机参数
Parameter table of traction reducer

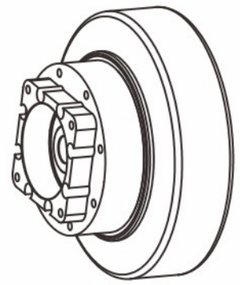
类型 Type	X	行星减速机 Planetary reducer							
减速机速比 Speed ratio of reducer	i	16	20	25	28	35	40	50	70
减速机扭矩 Reducer torque	N·m	30	30	33	30	33	30	33	21.5
聚氨酯承重 Polyurethane load-bearing	Kg	150							
最大速度 Maximum velocity	M/min	70.7	56.5	45.2	40.4	40.4	28.3	22.6	16.1
牵引力 Traction	N	304.8	381.0	476.3	450.0	495	450.0	495.0	322.5
牵引重量 Traction weight	参考 Reference	579.1	723.9	904.9	855.0	940.5	855.0	940.5	612.8

XZS 95 Serices

XZS-95-140-400







牵引电机参数
Parameter list of traction motor

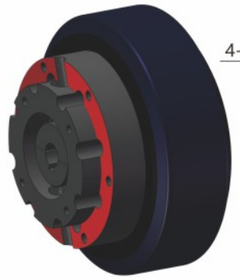
类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	400
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	10.6
额定扭矩 Rated Torque	N·m	1.27
防护等级 Protection level	IP	65

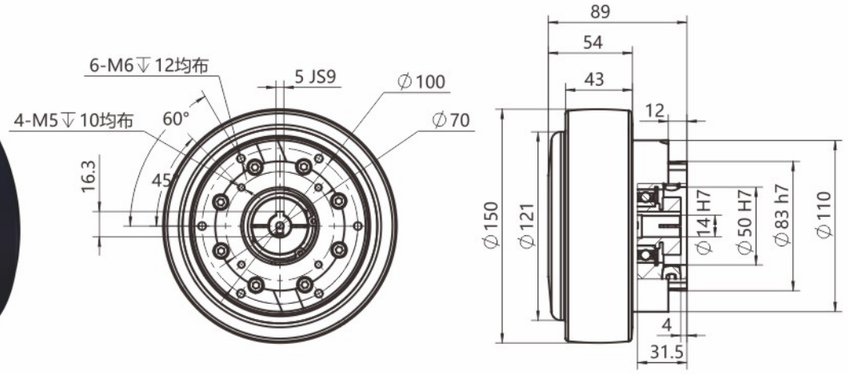
牵引减速机参数
Parameter table of traction reducer

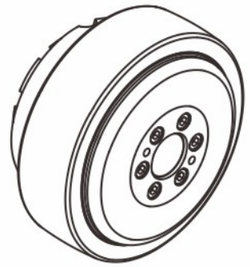
类型 Type	X	行星减速机 Planetary reducer							
减速机速比 Speed ratio of reducer	i	16	20	25	28	35	40	50	70
减速机扭矩 Reducer torque	N·m	30	30	33	30	33	30	33	21.5
聚氨酯承重 Polyurethane load-bearing	Kg	300							
最大速度 Maximum velocity	M/min	82.4	65.9	52.8	47.1	37.7	33.0	26.4	18.8
牵引力 Traction	N	261.3	326.6	408.2	385.7	424.3	385.7	424.3	276.4
牵引重量 Traction weight	参考 Reference	496.4	620.5	775.6	732.9	806.1	732.9	806.1	525.2

XZS 125 Serices

XZS-125-150-400







牵引电机参数
Parameter list of traction motor

类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	400
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	11.95
额定扭矩 Rated Torque	N·m	1.27
防护等级 Protection level	IP	65

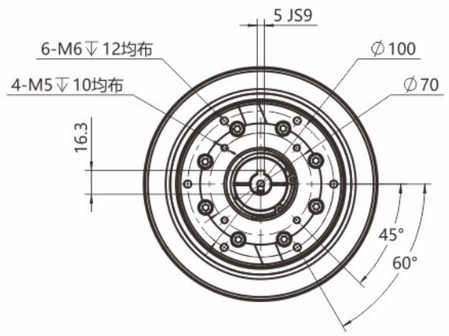
牵引减速机参数
Parameter table of traction reducer

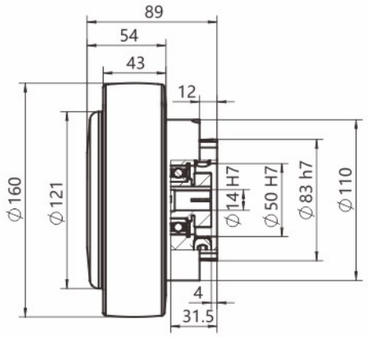
类型 Type	X	行星减速机 Planetary reducer							
减速机速比 Speed ratio of reducer	i	16	20	25	28	35	40	50	70
减速机扭矩 Reducer torque	N·m	30	30	33	30	33	30	33	21.5
聚氨酯承重 Polyurethane load-bearing	Kg	300							
最大速度 Maximum velocity	M/min	88.3	70.7	56.5	50.5	40.4	35.3	28.3	20.2
牵引力 Traction	N	243.8	304.8	381	360	396	360	396	258
牵引重量 Traction weight	参考 Reference	463.3	579.1	723.9	684	752.4	684	752.4	490.2

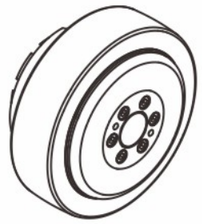
XZS 125 Serices

XZS-125-160-400









牵引电机参数
Parameter list of traction motor

类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	400
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	11.95
额定扭矩 Rated Torque	N·m	1.27
防护等级 Protection level	IP	65

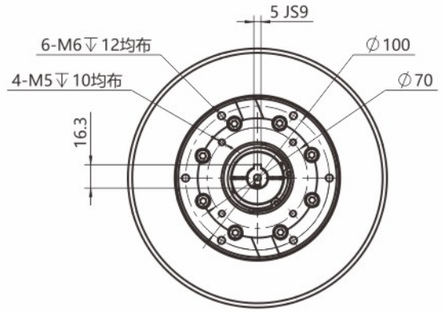
牵引减速机参数
Parameter table of traction reducer

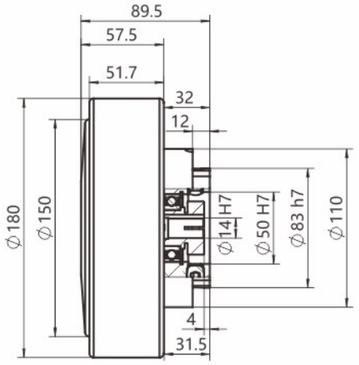
类型 Type	X	行星减速机 Planetary reducer							
减速机速比 Speed ratio of reducer	i	16	20	25	28	35	40	50	70
减速机扭矩 Reducer torque	N·m	30	30	33	30	33	30	33	21.5
聚氨酯承重 Polyurethane load-bearing	Kg	350							
最大速度 Maximum velocity	M/min	94.2	75.4	60.3	53.8	43.1	37.7	30.1	21.5
牵引力 Traction	N	228.6	285.8	357.2	337.5	371.3	337.5	371.3	241.9
牵引重量 Traction weight	参考 Reference	434.3	542.9	678.7	641.3	705.4	641.3	705.4	459.6

XZS 150 Serices

XZS-150-180-400











牵引电机参数
Parameter list of traction motor

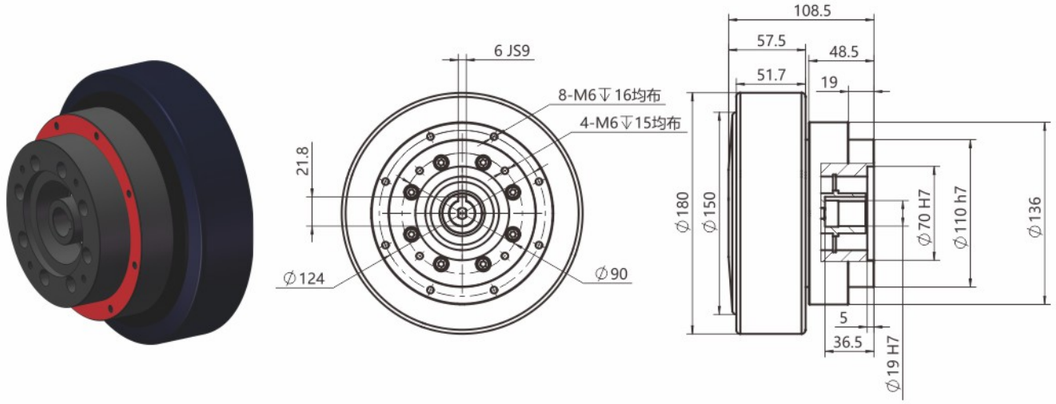
类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	400
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	11.95
额定扭矩 Rated Torque	N·m	1.27
防护等级 Protection level	IP	65

牵引减速机参数
Parameter table of traction reducer

类型 Type	X	行星减速机 Planetary reducer							
减速机速比 Speed ratio of reducer	i	16	20	25	28	35	40	50	70
减速机扭矩 Reducer torque	N·m	30	30	33	30	33	30	33	21.5
聚氨酯承重 Polyurethane load-bearing	Kg	400							
橡胶承重 Rubber bearing	Kg	300							
最大速度 Maximum velocity	M/min	106	84.8	67.8	60.6	48.4	42.4	33.9	24.2
牵引力 Traction	N	203.2	254	317.5	300	330	300	330	215
牵引重量 Traction weight	参考 Reference	386.1	482.6	603.3	570	627	570	627	408.5

XZS 150 Serices

XZS-150-180-750







牵引电机参数
Parameter list of traction motor

类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	750
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	22.4
额定扭矩 Rated Torque	N·m	2.39
防护等级 Protection level	IP	65

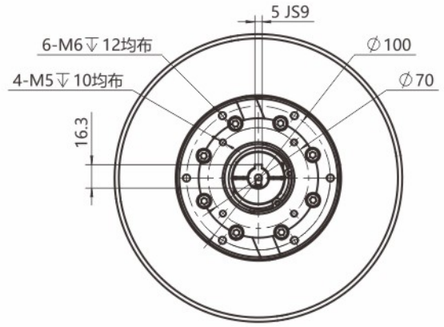
牵引减速机参数
Parameter table of traction reducer

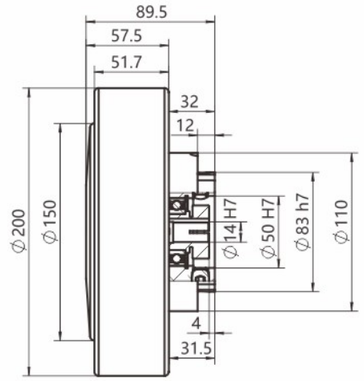
类型 Type	X	行星减速机 Planetary reducer							
减速机速比 Speed ratio of reducer	i	16	20	25	28	35	40	50	70
减速机扭矩 Reducer torque	N·m	96	96	105	96	105	96	105	71.5
聚氨酯承重 Polyurethane load-bearing	Kg	400							
橡胶承重 Rubber bearing	Kg	300							
最大速度 Maximum velocity	M/min	106	84.8	67.8	60.6	48.4	42.4	33.9	24.2
牵引力 Traction	N	382.4	478	597.5	669.2	836.5	956	1050	715
牵引重量 Traction weight	参考 Reference	726.6	908.2	1135.3	1271.5	1589.4	1816.4	1995	1358.5

XZS 150 Serices

XZS-150-200-400











牵引电机参数
Parameter list of traction motor

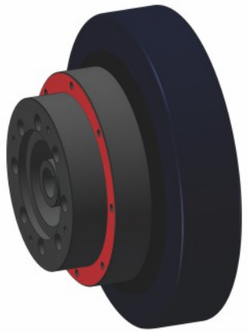
类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	400
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	11.95
额定扭矩 Rated Torque	N·m	1.27
防护等级 Protection level	IP	65

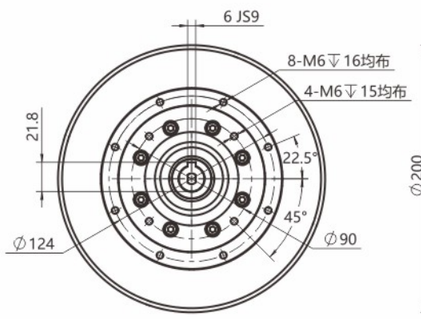
牵引减速机参数
Parameter table of traction reducer

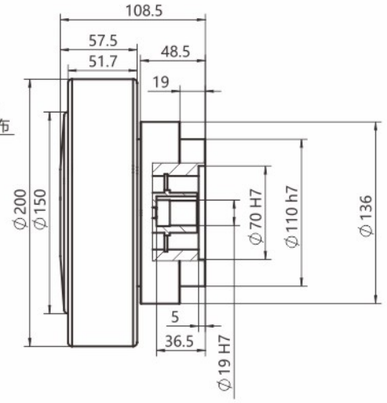
类型 Type	X	行星减速机 Planetary reducer							
减速机速比 Speed ratio of reducer	i	16	20	25	28	35	40	50	70
减速机扭矩 Reducer torque	N·m	30	30	33	30	33	30	33	21.5
聚氨酯承重 Polyurethane load-bearing	Kg	450							
橡胶承重 Rubber bearing	Kg	350							
最大速度 Maximum velocity	M/min	117.8	94.2	75.4	67.3	53.8	47.1	37.7	26.9
牵引力 Traction	N	182.9	228.6	285.8	270	297	270	297	193.5
牵引重量 Traction weight	参考 Reference	347.5	434.3	542.9	513	564.3	513	564.3	367.7

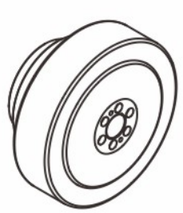
XZS 150 Serices

XZS-150-200-750











牵引电机参数
Parameter list of traction motor

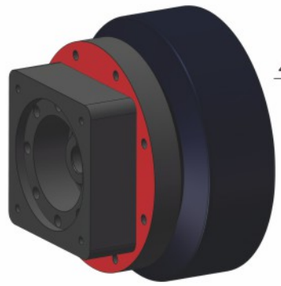
类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	750
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	22.4
额定扭矩 Rated Torque	N·m	2.39
防护等级 Protection level	IP	65

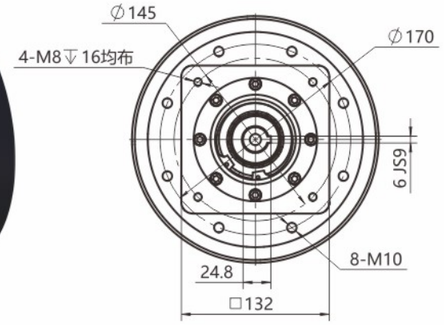
牵引减速机参数
Parameter table of traction reducer

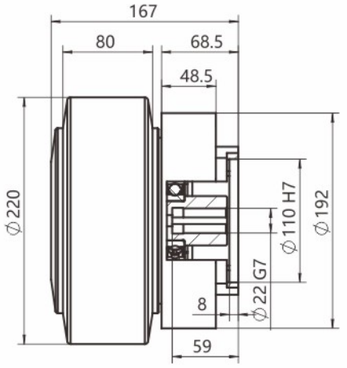
类型 Type	X	行星减速机 Planetary reducer							
减速机速比 Speed ratio of reducer	i	16	20	25	28	35	40	50	70
减速机扭矩 Reducer torque	N·m	96	96	105	96	105	96	105	71.5
聚氨酯承重 Polyurethane load-bearing	Kg	450							
橡胶承重 Rubber bearing	Kg	350							
最大速度 Maximum velocity	M/min	117.8	94.2	75.4	67.3	53.8	47.1	37.7	26.9
牵引力 Traction	N	344.2	430.2	537.8	602.3	752.8	860.4	945	643.5
牵引重量 Traction weight	参考 Reference	653.9	817.4	1021.7	1144.3	1430.4	1634.8	1795.5	1222.7

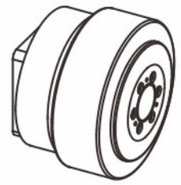
XZS 165 Serices

XZS-165-220-1500









牵引电机参数
Parameter list of traction motor

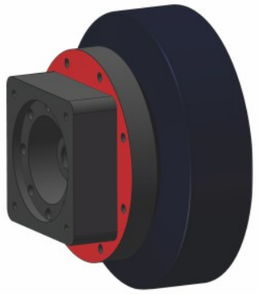
类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	1500
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	39
额定扭矩 Rated Torque	N·m	4.77
防护等级 Protection level	IP	65

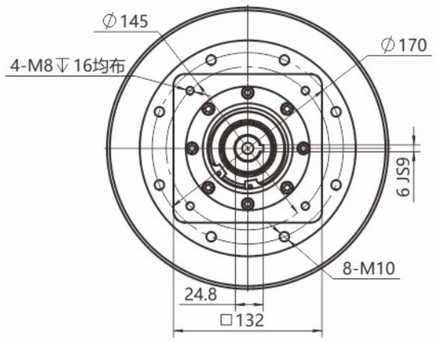
牵引减速机参数
Parameter table of traction reducer

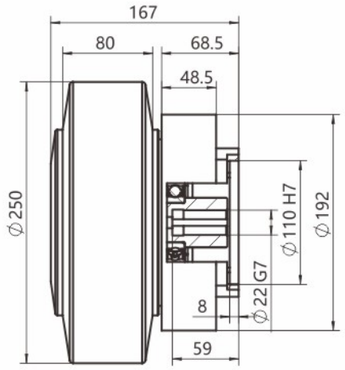
类型 Type	X	行星减速机 Planetary reducer							
减速机速比 Speed ratio of reducer	i	16	20	25	28	35	40	50	70
减速机扭矩 Reducer torque	N·m	250	250	264	250	264	250	264	177
聚氨酯承重 Polyurethane load-bearing	Kg	1120							
最大速度 Maximum velocity	M/min	129.5	103.6	82.9	74	59.2	51.8	41.4	29.6
牵引力 Traction	N	624.4	780.5	975.7	1092.8	1366	1561.1	1951	1448.2
牵引重量 Traction weight	参考 Reference	1186.4	1483	1853.8	2076.3	2595.3	2966.1	3708	2751

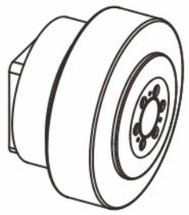
XZS 165 Serices

XZS-165-250-1500











牵引电机参数
Parameter list of traction motor

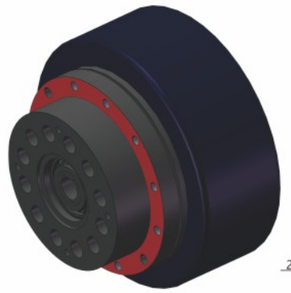
类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	1500
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	39
额定扭矩 Rated Torque	N·m	4.77
防护等级 Protection level	IP	65

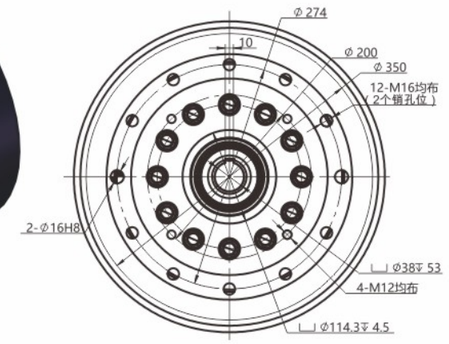
牵引减速机参数
Parameter table of traction reducer

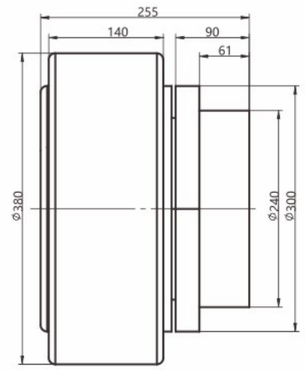
类型 Type	X	行星减速机 Planetary reducer							
减速机速比 Speed ratio of reducer	i	16	20	25	28	35	40	50	70
减速机扭矩 Reducer torque	N·m	250	250	264	250	264	250	264	177
聚氨酯承重 Polyurethane load-bearing	Kg	1150							
橡胶承重 Rubber bearing	Kg	750							
最大速度 Maximum velocity	M/min	147.2	117.8	94.2	84.1	67.3	58.9	47.1	33.6
牵引力 Traction	N	549.5	686.9	858.6	961.6	1202	1373.8	1717	1274.4
牵引重量 Traction weight	参考 Reference	1044.1	1305	1631.3	1827.1	2283.9	2610.1	3263	2421.9

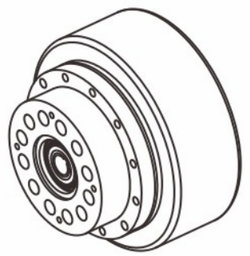
XZS 300 Serices

XZS-300-380-7500









牵引电机参数
Parameter list of traction motor

类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	7500
电机电压 Motor voltage	V	72
电机转速 Motor speed	rpm	2000
电机电流 Motor current	A	135±10%
额定扭矩 Rated Torque	N·m	35
防护等级 Protection level	IP	65

牵引减速机参数
Parameter table of traction reducer

类型 Type	X	行星减速机 Planetary reducer							
减速机速比 Speed ratio of reducer	i	16	20	25	28	35	40	50	70
减速机扭矩 Reducer torque	N·m	1300	1300	1100	1300	1100	1300	1100	800
聚氨酯承重 Polyurethane load-bearing	Kg	3000							
最大速度 Maximum velocity	M/min	149.2	119.3	95.5	85.2	68.2	59.7	47.7	34.1
牵引力 Traction	N	2652.6	3315.8	4144.7	4642.1	5210.5	6157.9	5210.5	3789.5
牵引重量 Traction weight	参考 Reference	5040.0	6300.0	7875.0	8820.0	9900.0	11700.0	9900.0	7200.0

- H60
- H90
- H120
- HF90



H

Series

H系列型号说明

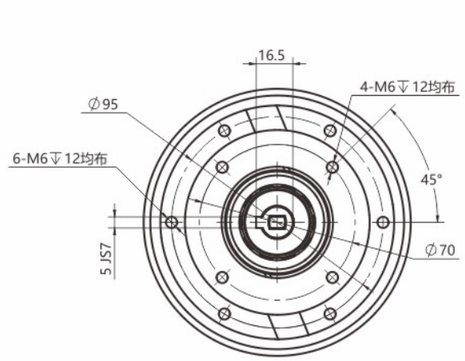
H series model description

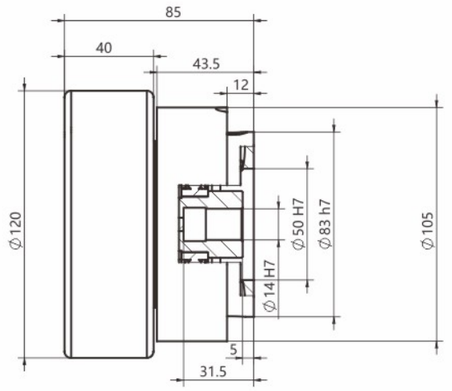


H60 Serices

H60-200-120







牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	200					
	电机额定转速 Motor Rated Speed	rpm	3000					
	电机额定扭矩 Motor Rated Torque	Nm	0.64					
行走减速机 Travel Reducer	速比 Reduction Ratio	i	9	12	15	16	20	32
	最大额定输出扭矩 Max Rated Output Torque	Nm	24	27	27	30	30	28
	行走速度 Travel Speed	m/min	125.6	94.2	75.4	70.7	56.5	35.3
	牵引力 Traction Force	N	80	110	140	150	190	300
	牵引重量(仅参考) Traction Weight	kg	160	210	270	290	360	580

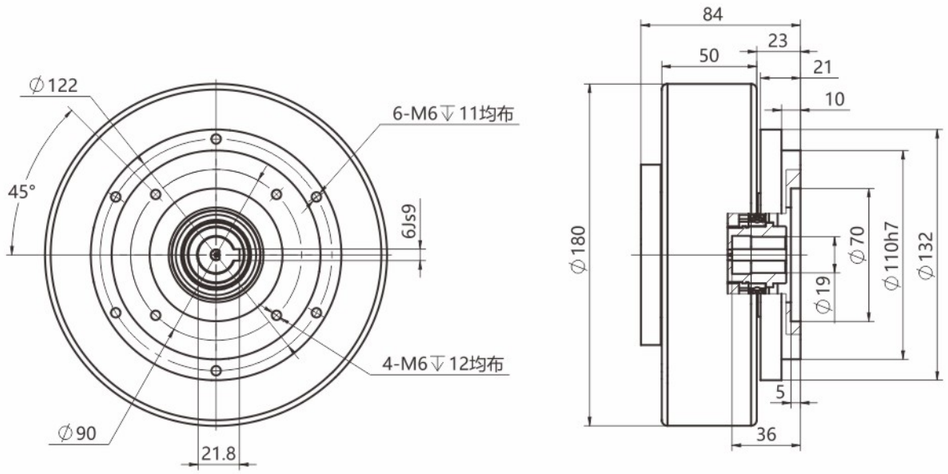
承重性能参数
Load Bearing Performance Parameters

聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	300

H90 Serices

H90-750-180





牵引性能参数
Traction Performance Parameters

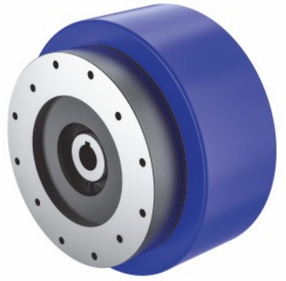
行走电机 Travel Motor	电机功率 Motor Power	W	750						
	电机额定转速 Motor Rated Speed	rpm	3000						
	电机额定扭矩 Motor Rated Torque	Nm	2.39						
行走减速机 Travel Reducer	速比 Reduction Ratio	i	12	15	16	20	21	28	40
	最大额定输出扭矩 Max Rated Output Torque	Nm	90	90	105	105	58.5	78	34
	行走速度 Travel Speed	m/min	141.3	113.0	106.0	84.8	80.7	60.6	42.4
	牵引力 Traction Force	N	280	350	380	470	500	660	340
	牵引重量(仅参考) Traction Weight	kg	530	660	720	890	950	1250	640

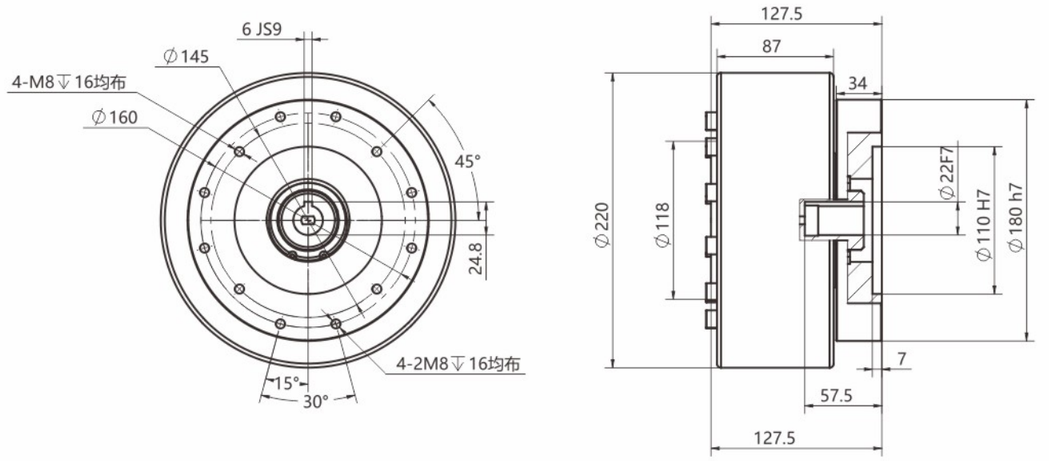
承重性能参数
Load Bearing Performance Parameters

聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	500

H120 Serices

H120-1500-220





牵引性能参数
Traction Performance Parameters

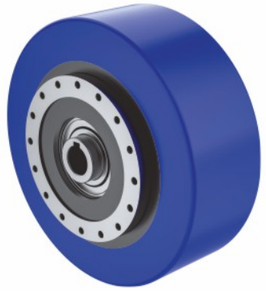
行走电机 Travel Motor	电机功率 Motor Power	W	1500						
	电机额定转速 Motor Rated Speed	rpm	3000						
	电机额定扭矩 Motor Rated Torque	Nm	4.77						
行走减速机 Travel Reducer	速比 Reduction Ratio	i	12	15	16	20	21	28	40
	最大额定输出扭矩 Max Rated Output Torque	Nm	250	250	264	378	192	256	158
	行走速度 Travel Speed	m/min	172.7	138.2	129.5	103.6	98.7	74.0	51.8
	牵引力 Traction Force	N	490	610	655	810	850	1140	1290
	牵引重量(仅参考) Traction Weight	kg	930	1150	1240	1530	1610	2160	2450

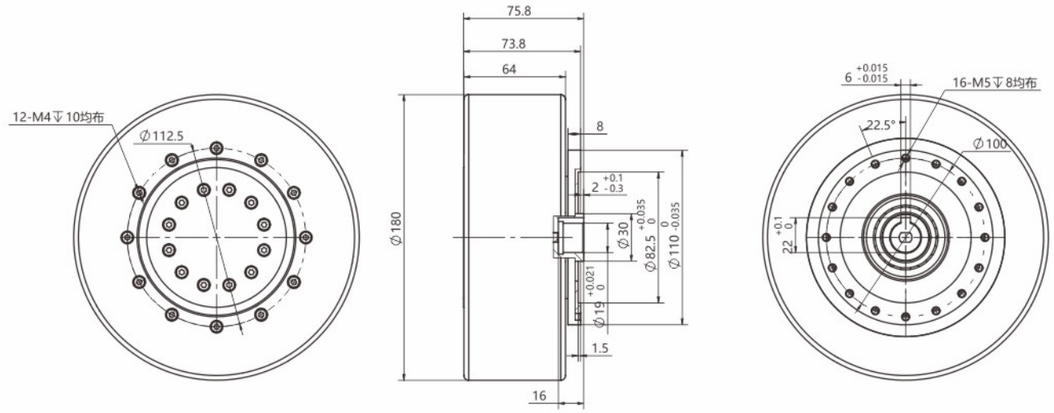
承重性能参数
Load Bearing Performance Parameters

聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	1120

HF90 SERICES

HF90-1200-180





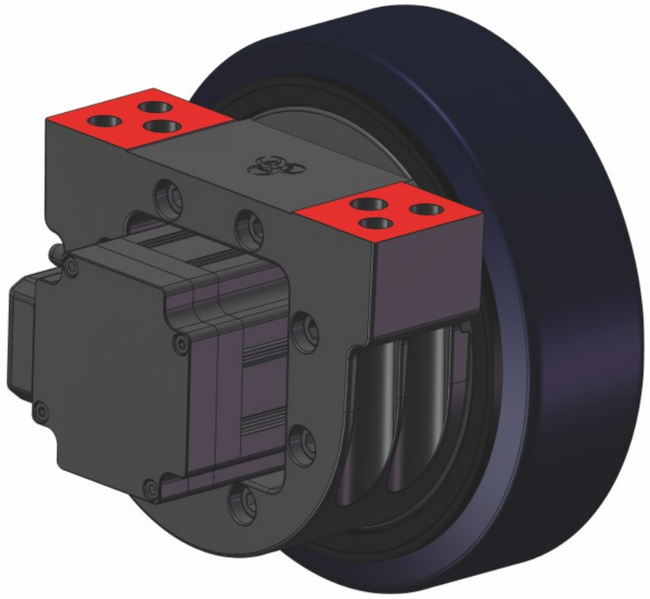
牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	1200						
	电机额定转速 Motor Rated Speed	rpm	3000						
	电机额定扭矩 Motor Rated Torque	Nm	3.82						
行走减速机 Travel Reducer	速比 Reduction Ratio	i	12	15	16	20	21	28	40
	最大额定输出扭矩 Max Rated Output Torque	Nm	165	165	160	160	120	160	88
	行走速度 Travel Speed	m/min	141.3	113.0	106.0	84.8	80.7	60.6	42.4
	牵引力 Traction Force	N	570	610	760	800	1060	1520	880
	牵引重量(仅参考) Traction Weight	kg	1080	1150	1440	1520	2010	2880	1670

承重性能参数
Load Bearing Performance Parameters

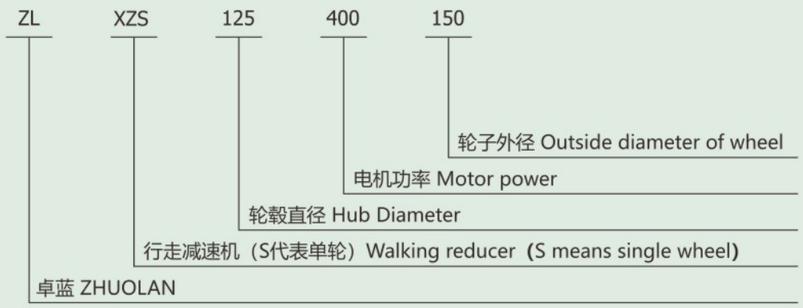
聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	800

- XZS 95
- XZS 125
- XZS 150
- XZS 165



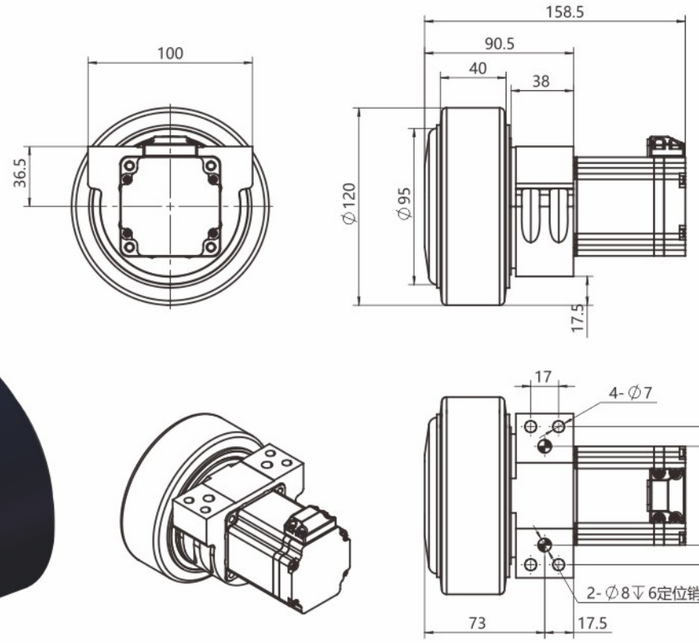
XZS Series

XZS系列型号说明
XZS series model description



XZS 95 Serices

ZL-XZS-95-400-120



牵引电机参数
Parameter list of traction motor

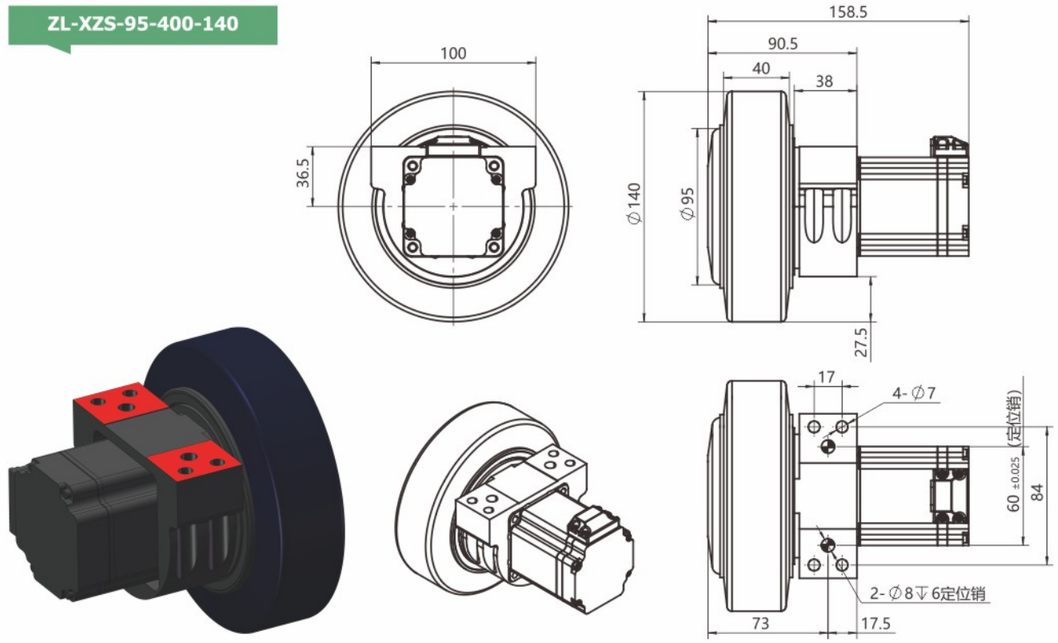
类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	400
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	11.95
额定扭矩 Rated Torque	N·m	1.27
防护等级 Protection level	IP	65

牵引减速机参数
Parameter table of traction reducer

类型 Type	X	行星减速机 Planetary reducer							
减速机速比 Speed ratio of reducer	i	16	20	25	28	35	40	50	70
减速机扭矩 Reducer torque	N·m	30	30	33	30	33	30	33	21.5
聚氨酯承重 Polyurethane load-bearing	Kg	150							
最大速度 Maximum velocity	M/min	70.7	56.5	45.2	40.4	32.3	28.3	22.6	16.1
牵引力 Traction	N	304.8	381.0	476.3	450.0	495.0	450.0	495.0	322.5
牵引重量 Traction weight	参考 Reference	579.1	723.9	904.9	855.0	940.5	855.0	940.5	612.8

XZS 95 Serices

ZL-XZS-95-400-140



牵引电机参数
Parameter list of traction motor

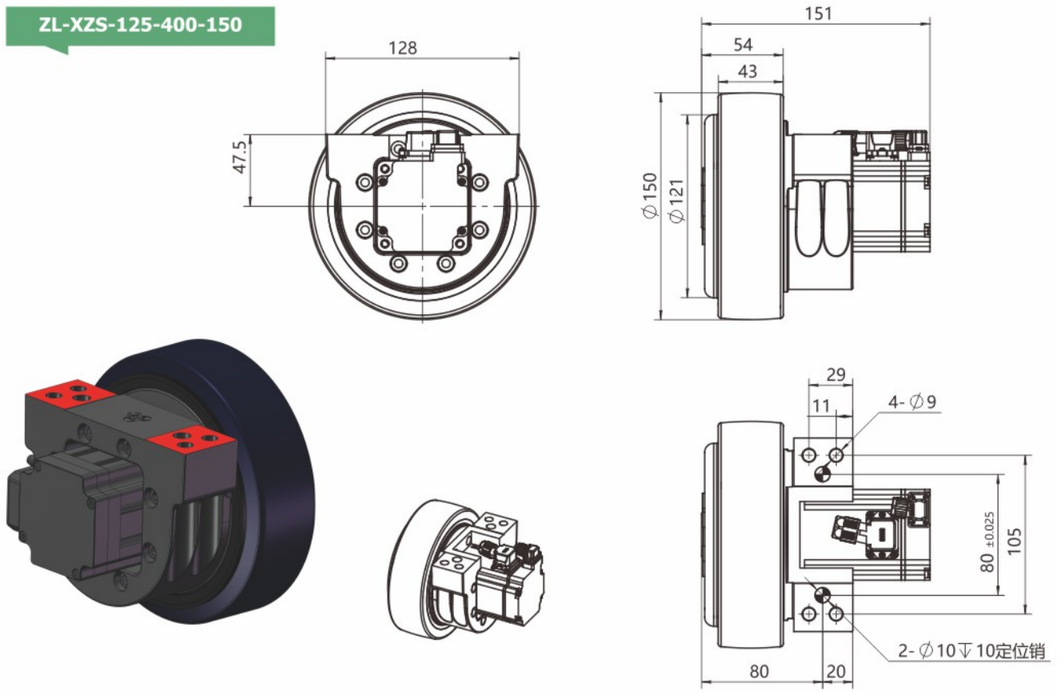
类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	400
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	10.6
额定扭矩 Rated Torque	N·m	1.27
防护等级 Protection level	IP	65

牵引减速机参数
Parameter table of traction reducer

类型 Type	X	行星减速机 Planetary reducer							
减速机速比 Speed ratio of reducer	i	16	20	25	28	35	40	50	70
减速机扭矩 Reducer torque	N·m	30	30	33	30	33	30	33	21.5
聚氨酯承重 Polyurethane load-bearing	Kg	300							
最大速度 Maximum velocity	M/min	82.4	65.9	52.8	47.1	37.7	33.0	26.4	18.8
牵引力 Traction	N	261.3	326.6	408.2	385.7	424.3	385.7	424.3	276.4
牵引重量 Traction weight	参考 Reference	496.4	620.5	775.6	732.9	806.1	732.9	806.1	525.2

XZS 125 Serices

ZL-XZS-125-400-150



牵引电机参数
Parameter list of traction motor

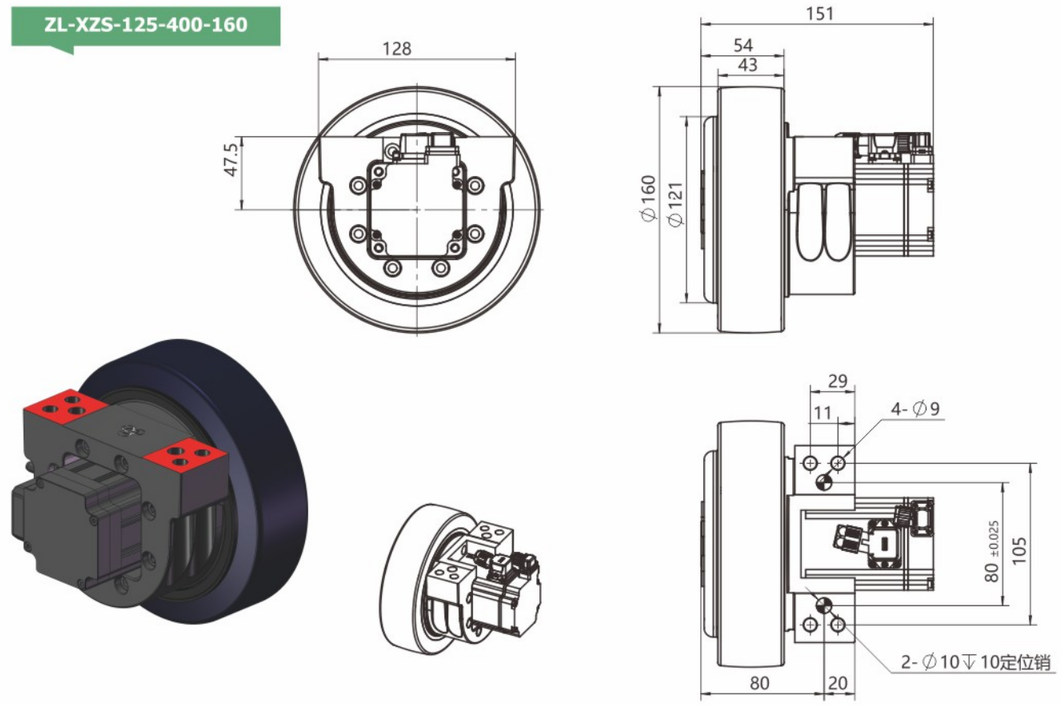
类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	400
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	11.95
额定扭矩 Rated Torque	N·m	1.27
防护等级 Protection level	IP	65

牵引减速机参数
Parameter table of traction reducer

类型 Type	X	行星减速机 Planetary reducer							
减速机速比 Speed ratio of reducer	i	16	20	25	28	35	40	50	70
减速机扭矩 Reducer torque	N·m	30	30	33	30	33	30	33	21.5
聚氨酯承重 Polyurethane load-bearing	Kg	300							
最大速度 Maximum velocity	M/min	88.3	70.7	56.5	50.5	40.4	35.3	28.3	20.2
牵引力 Traction	N	243.8	304.8	381	360	396	360	396	258
牵引重量 Traction weight	参考 Reference	463.3	579.1	723.9	684	752.4	684	752.4	490.2

XZS 125 Serices

ZL-XZS-125-400-160



牵引电机参数
Parameter list of traction motor

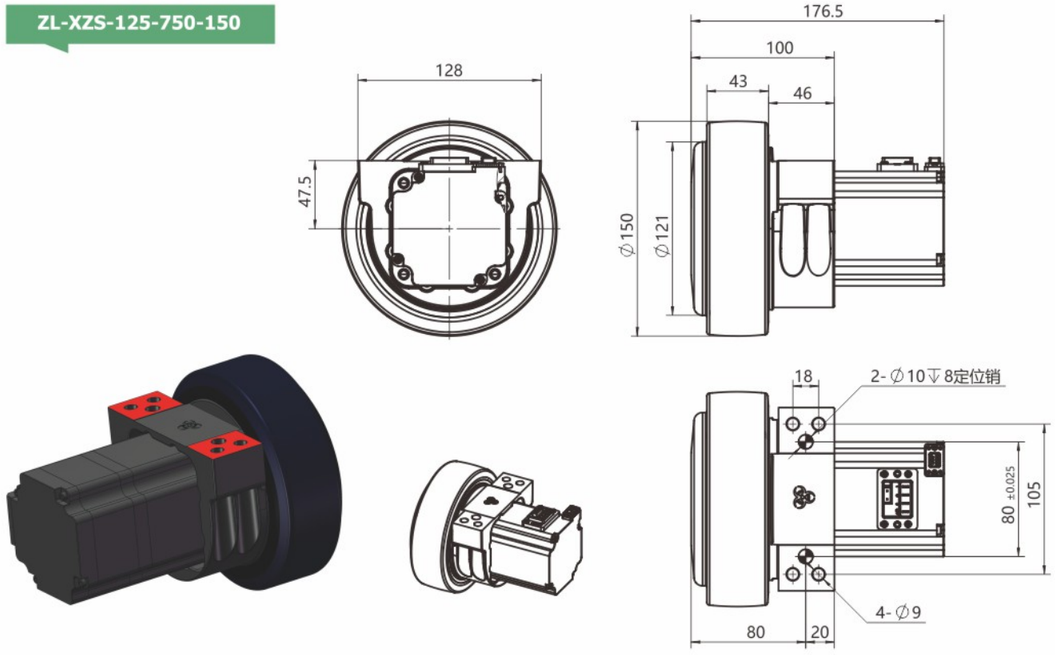
类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	400
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	11.95
额定扭矩 Rated Torque	N·m	1.27
防护等级 Protection level	IP	65

牵引减速机参数
Parameter table of traction reducer

类型 Type	X	行星减速机 Planetary reducer							
减速机速比 Speed ratio of reducer	i	16	20	25	28	35	40	50	70
减速机扭矩 Reducer torque	N·m	30	30	33	30	33	30	33	21.5
聚氨酯承重 Polyurethane load-bearing	Kg	350							
最大速度 Maximum velocity	M/min	94.2	75.4	60.3	53.8	43.1	37.7	30.1	21.5
牵引力 Traction	N	228.6	285.8	357.2	337.5	371.3	337.5	371.3	241.9
牵引重量 Traction weight	参考 Reference	434.3	542.9	678.7	641.3	705.4	641.3	705.4	459.6

XZS 125 Serices

ZL-XZS-125-750-150



牵引电机参数
Parameter list of traction motor

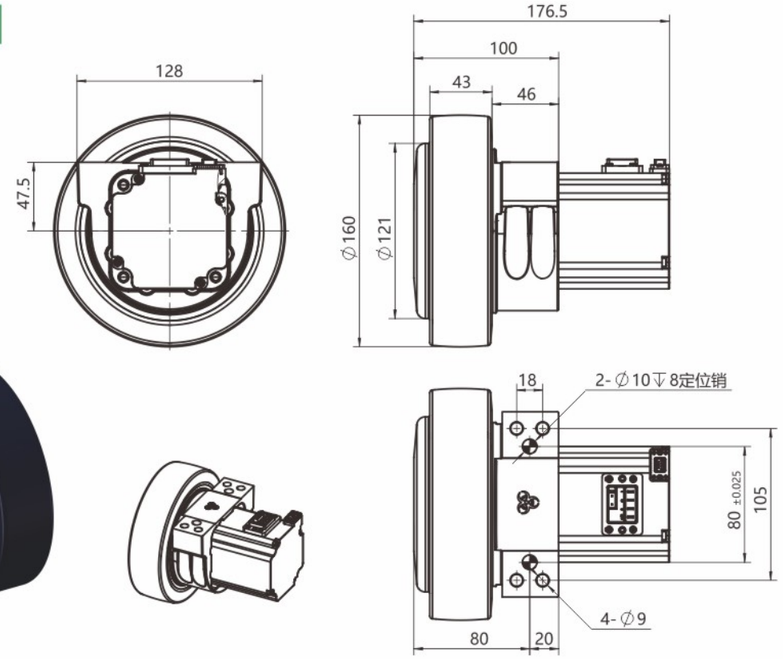
类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	750
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	22.4
额定扭矩 Rated Torque	N·m	2.39
防护等级 Protection level	IP	65

牵引减速机参数
Parameter table of traction reducer

类型 Type	X	行星减速机 Planetary reducer							
减速机速比 Speed ratio of reducer	i	16	20	25	28	35	40	50	70
减速机扭矩 Reducer torque	N·m	96	96	105	96	105	96	105	71.5
聚氨酯承重 Polyurethane load-bearing	Kg	300							
最大速度 Maximum velocity	M/min	88.3	70.7	56.5	50.5	40.4	35.3	28.3	20.2
牵引力 Traction	N	458.9	573.6	717	803	1003.8	1147.2	1260	858
牵引重量 Traction weight	参考 Reference	871.9	1090	1362.3	1525.8	1907.2	2179.7	2394	1630.2

XZS 125 Serices

ZL-XZS-125-750-160



牵引电机参数
Parameter list of traction motor

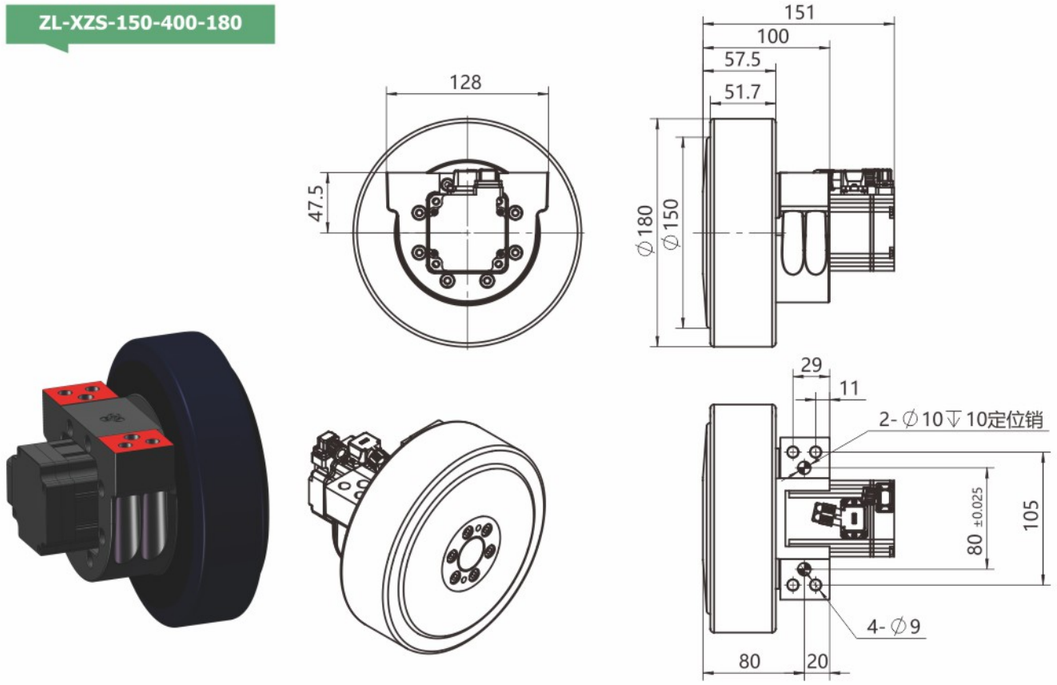
类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	750
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	22.4
额定扭矩 Rated Torque	N·m	2.39
防护等级 Protection level	IP	65

牵引减速机参数
Parameter table of traction reducer

类型 Type	X	行星减速机 Planetary reducer							
减速机速比 Speed ratio of reducer	i	16	20	25	28	35	40	50	70
减速机扭矩 Reducer torque	N·m	96	96	105	96	105	96	105	71.5
聚氨酯承重 Polyurethane load-bearing	Kg	350							
最大速度 Maximum velocity	M/min	94.2	75.4	60.3	53.8	43.1	37.7	30.1	21.5
牵引力 Traction	N	430.2	537.8	672.2	752.9	941.1	1075.5	1181	804.4
牵引重量 Traction weight	参考 Reference	817.4	1022	1277.2	1430.4	1788	2043.5	2244	1528.3

XZS 150 Serices

ZL-XZS-150-400-180



牵引电机参数
Parameter list of traction motor

类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	400
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	11.95
额定扭矩 Rated Torque	N·m	1.27
防护等级 Protection level	IP	65

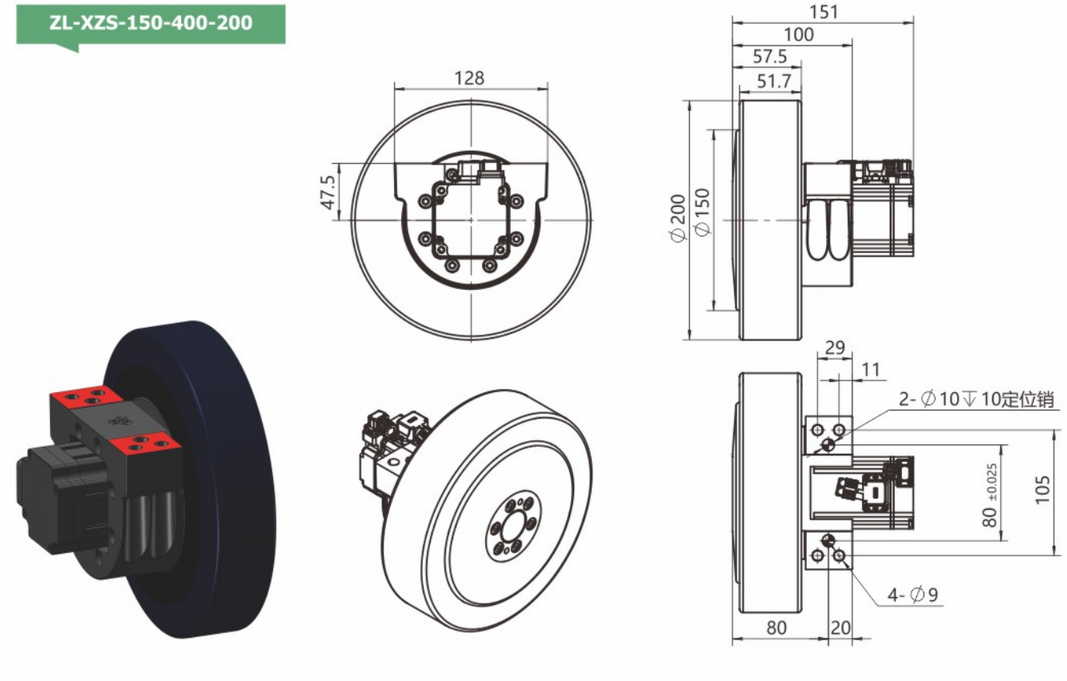


牵引减速机参数
Parameter table of traction reducer

类型 Type	X	行星减速机 Planetary reducer							
减速机速比 Speed ratio of reducer	i	16	20	25	28	35	40	50	70
减速机扭矩 Reducer torque	N·m	30	30	33	30	33	30	33	21.5
聚氨酯承重 Polyurethane load-bearing	Kg	400							
橡胶承重 Rubber bearing	Kg	300							
最大速度 Maximum velocity	M/min	106	84.8	67.8	60.6	48.4	42.4	33.9	24.2
牵引力 Traction	N	203.2	254	317.5	300	330	300	330	215
牵引重量 Traction weight	参考 Reference	386.1	482.6	603.3	570	627	570	627	408.5

XZS 150 Serices

ZL-XZS-150-400-200



牵引电机参数
Parameter list of traction motor

类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	400
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	11.95
额定扭矩 Rated Torque	N·m	1.27
防护等级 Protection level	IP	65

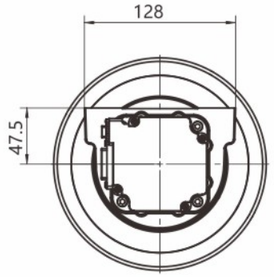


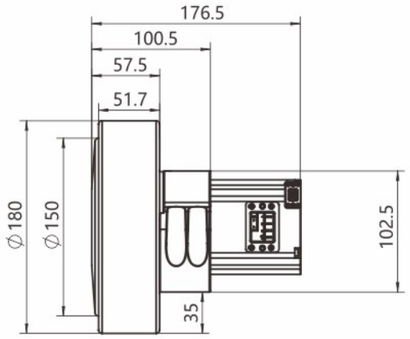
牵引减速机参数
Parameter table of traction reducer

类型 Type	X	行星减速机 Planetary reducer							
减速机速比 Speed ratio of reducer	i	16	20	25	28	35	40	50	70
减速机扭矩 Reducer torque	N·m	30	30	33	30	33	30	33	21.5
聚氨酯承重 Polyurethane load-bearing	Kg	450							
橡胶承重 Rubber bearing	Kg	350							
最大速度 Maximum velocity	M/min	117.8	94.2	75.4	67.3	53.8	47.1	37.7	26.9
牵引力 Traction	N	182.9	228.6	285.8	270	297	270	297	193.5
牵引重量 Traction weight	参考 Reference	347.5	434.3	542.9	513	564.3	513	564.3	367.7

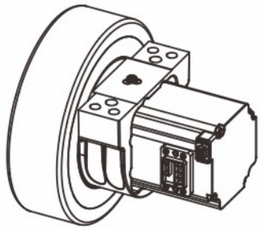
XZS 150 Serices

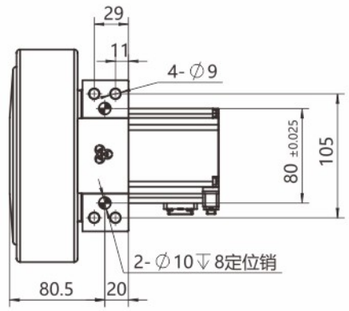
ZL-XZS-150-750-180











牵引电机参数
Parameter list of traction motor

类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	750
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	22.4
额定扭矩 Rated Torque	N·m	2.39
防护等级 Protection level	IP	65

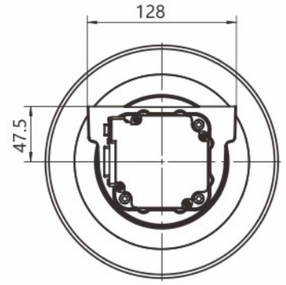


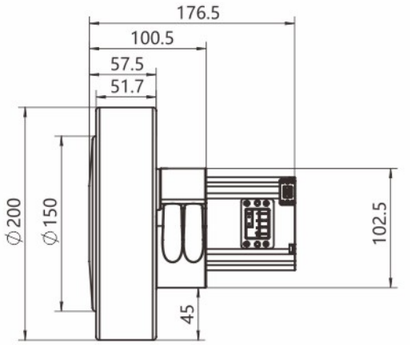
牵引减速机参数
Parameter table of traction reducer

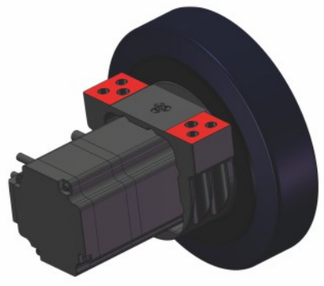
类型 Type	X	行星减速机 Planetary reducer							
减速机速比 Speed ratio of reducer	i	16	20	25	28	35	40	50	70
减速机扭矩 Reducer torque	N·m	96	96	105	96	105	96	105	71.5
聚氨酯承重 Polyurethane load-bearing	Kg	400							
橡胶承重 Rubber bearing	Kg	300							
最大速度 Maximum velocity	M/min	106	84.8	67.8	60.6	48.4	42.4	33.9	24.2
牵引力 Traction	N	382.4	478	597.5	669.2	836.5	956	1050	715
牵引重量 Traction weight	参考 Reference	726.6	908.2	1135.3	1271.5	1589.4	1816.4	1995	1358.5

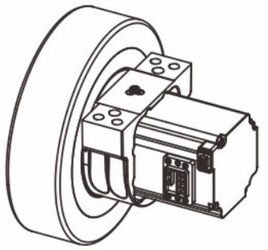
XZS 150 Serices

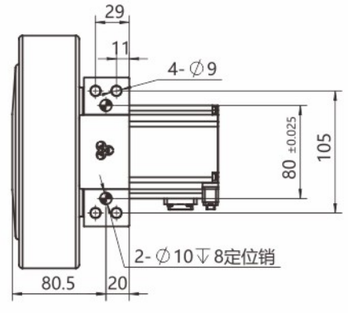
ZL-XZS-150-750-200











牵引电机参数
Parameter list of traction motor

类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	750
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	22.4
额定扭矩 Rated Torque	N·m	2.39
防护等级 Protection level	IP	65

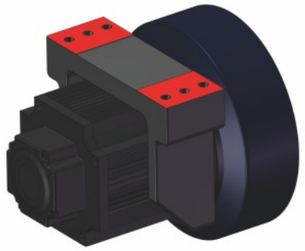


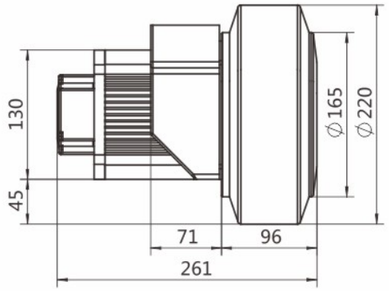
牵引减速机参数
Parameter table of traction reducer

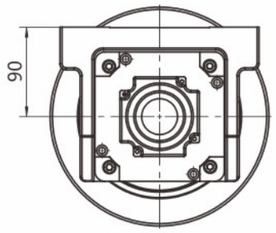
类型 Type	X	行星减速机 Planetary reducer							
减速机速比 Speed ratio of reducer	i	16	20	25	28	35	40	50	70
减速机扭矩 Reducer torque	N·m	96	96	105	96	105	96	105	71.5
聚氨酯承重 Polyurethane load-bearing	Kg	450							
橡胶承重 Rubber bearing	Kg	350							
最大速度 Maximum velocity	M/min	117.8	94.2	75.4	67.3	53.8	47.1	37.7	26.9
牵引力 Traction	N	344.2	430.2	537.8	602.3	752.9	860.4	945	643.5
牵引重量 Traction weight	参考 Reference	653.9	817.4	1021.7	1144.3	1430.4	1634.8	1795	1222.7

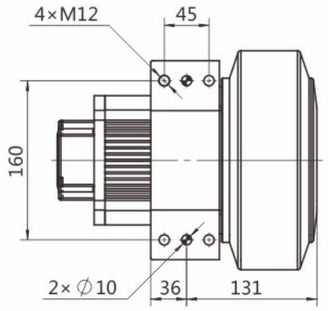
XZS 165 Serices

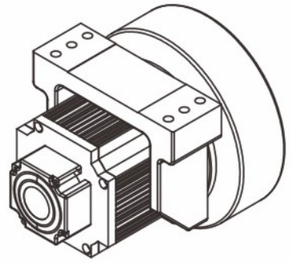
ZL-XZS-165-1500A-220











牵引电机参数
Parameter list of traction motor

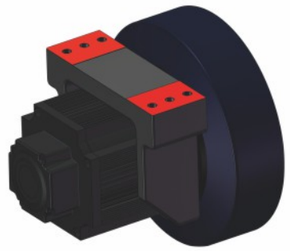
类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	1500
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	39
额定扭矩 Rated Torque	N·m	4.77
防护等级 Protection level	IP	65

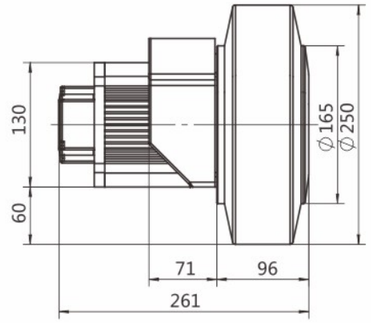
牵引减速机参数
Parameter table of traction reducer

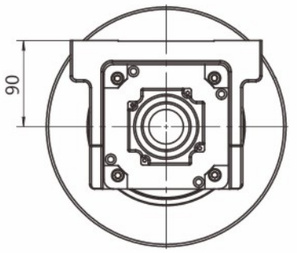
类型 Type	X	行星减速机 Planetary reducer							
减速机速比 Speed ratio of reducer	i	16	20	25	28	35	40	50	70
减速机扭矩 Reducer torque	N·m	250	250	264	250	264	250	264	177
聚氨酯承重 Polyurethane load-bearing	Kg	1120							
最大速度 Maximum velocity	M/min	129.5	103.6	82.9	74	59.2	51.8	41.4	29.6
牵引力 Traction	N	624.4	780.5	975.7	1092.8	1366	1561.1	1951.4	1448.2
牵引重量 Traction weight	参考 Reference	1186.4	1483	1853.8	2076.3	2595.3	2966.1	3707.6	2751.5

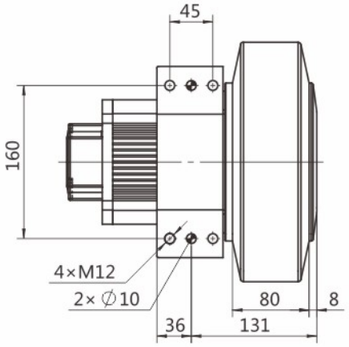
XZS 165 Serices

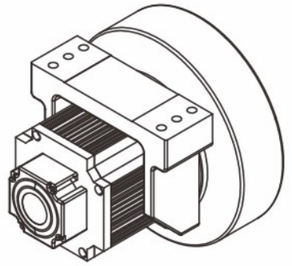
ZL-XZS-165-1500A-250













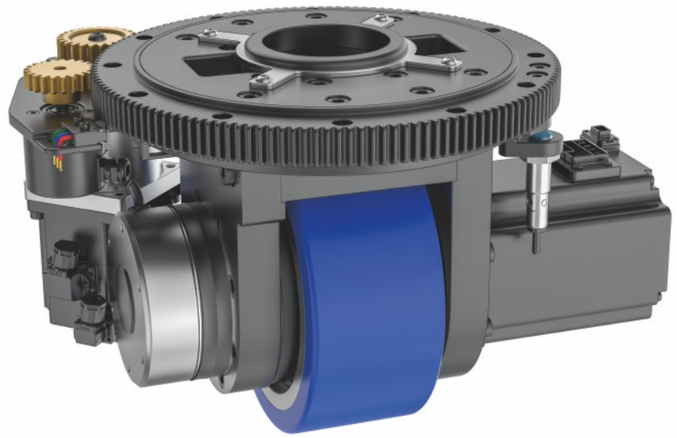
牵引电机参数
Parameter list of traction motor

类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	1500
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	39
额定扭矩 Rated Torque	N·m	4.77
防护等级 Protection level	IP	65

牵引减速机参数
Parameter table of traction reducer

类型 Type	X	行星减速机 Planetary reducer							
减速机速比 Speed ratio of reducer	i	16	20	25	28	35	40	50	70
减速机扭矩 Reducer torque	N·m	250	250	264	250	264	250	264	177
聚氨酯承重 Polyurethane load-bearing	Kg	1150							
橡胶承重 Rubber bearing	Kg	750							
最大速度 Maximum velocity	M/min	147.2	117.8	94.2	84.1	67.3	58.9	47.1	33.6
牵引力 Traction	N	549.5	686.9	858.6	961.6	1202	1373.8	1717.2	1274.4
牵引重量 Traction weight	参考 Reference	1044.1	1305.1	1631.3	1827.1	2283.9	2610.1	3262.7	2421.4

- WS150
- WS160
- WS200
- SW250
- WS300
- WS350



WS

Series

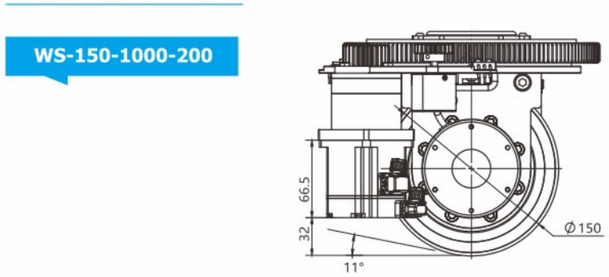
WS系列型号说明

WS series model description

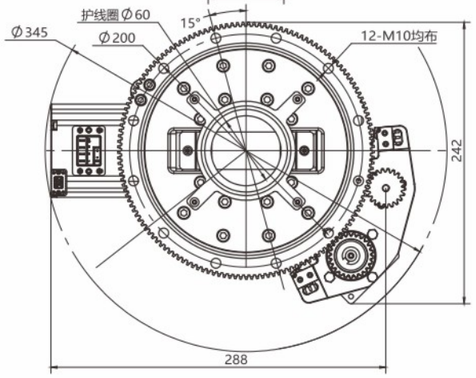


WS150 Serices

WS-150-1000-200







牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	1000			
	电机额定转速 Motor Rated Speed	rpm	3000			
	电机额定扭矩 Motor Rated Torque	Nm	3.18			
行走减速机 Travel Reducer	速比 Reduction Ratio	i	15	21	28	40
	最大额定输出扭矩 Max Rated Output Torque	Nm	222	192	235	158
	行走速度 Travel Speed	m/min	94.2	67.3	50.5	35.3
	牵引力 Traction Force	N	570	800	1060	1500
	牵引重量(仅参考)：Traction Weight	kg	970	1360	1800	2590
	制动扭矩 Braking Torque	Nm	4			

转向性能参数
Steering Performance Parameters

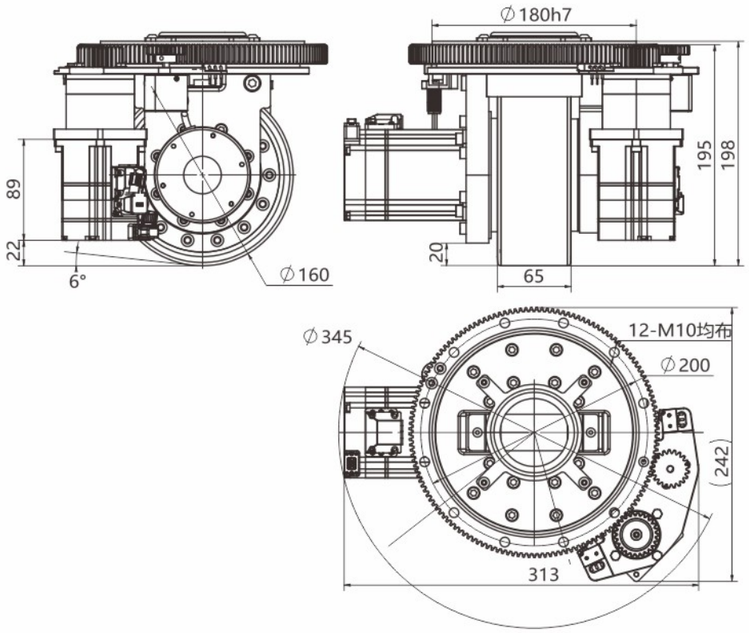
转向电机 Steering Motor	电机功率 Motor Power	W	200	
	电机额定转速 Motor Rated Speed	rpm	3000	
	电机额定扭矩 Motor Rated Torque	Nm	0.64	
转向参数 Steering Parameters	减速机速比 Reducer Ratio	i	35	50
	回转轴承齿数 Slewing Bearing Teeth Number	z	145	
	转向齿轮齿数 Steering Gear Teeth Number	z	25	
	总转向速比 Total Steering Ratio	I	203	290
	允许转向角度(传感器) Allowable Steering Angle (Sensor)	°	±140°	

承重性能参数
Load Bearing Performance Parameters

聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	600
电机长度 Motor Length	mm	小于等于112.5（回转直径 Swing Diameter 345）

WS160 Serices

WS-160-1000-200





牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	1000			
	电机额定转速 Motor Rated Speed	rpm	3000			
	电机额定扭矩 Motor Rated Torque	Nm	3.18			
行走减速机 Travel Reducer	速比 Reduction Ratio	i	15	21	28	40
	最大额定输出扭矩 Max Rated Output Torque	Nm	222	192	235	158
	行走速度 Travel Speed	m/min	100.5	71.8	53.8	37.7
	牵引力 Traction Force	N	500	750	1000	1400
	牵引重量(仅参考) Traction Weight	kg	900	1270	1700	2400
	制动扭矩 Braking Torque	Nm	4			

转向性能参数
Steering Performance Parameters

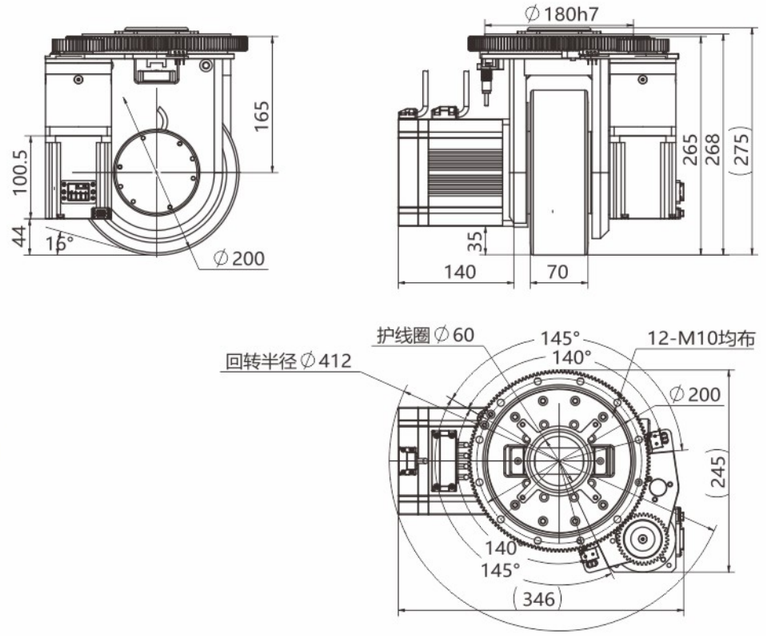
转向电机 Steering Motor	电机功率 Motor Power	W	200	
	电机额定转速 Motor Rated Speed	rpm	3000	
	电机额定扭矩 Motor Rated Torque	Nm	0.64	
转向参数 Steering Parameters	减速机速比 Reducer Ratio	i	35	50
	回转轴承齿数 Slewing Bearing Teeth Number	z	145	
	转向齿轮齿数 Steering Gear Teeth Number	z	25	
	总转向速比 Total Steering Ratio	I	203	290
	允许转向角度(传感器) Allowable Steering Angle (Sensor)	°	±140°	

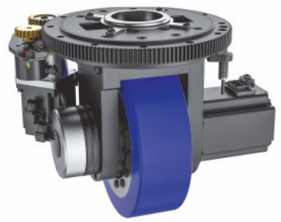
承重性能参数
Load Bearing Performance Parameters

聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	700
电机长度 Motor Length	mm	小于等于112.5（回转直径 Swing Diameter 345）

WS200 Serices

WS-200-1500-400





牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	1500			
	电机额定转速 Motor Rated Speed	rpm	3000			
	电机额定扭矩 Motor Rated Torque	Nm	5			
行走减速机 Travel Reducer	速比 Reduction Ratio	i	15	21	28	40
	最大额定输出扭矩 Max Rated Output Torque	Nm	222	192	235	158
	行走速度 Travel Speed	m/min	125.6	89.7	67.3	47
	牵引力 Traction Force	N	670	940	1260	1400
	牵引重量(仅参考) Traction Weight	kg	1140	1600	2140	2380
	制动扭矩 Braking Torque	Nm	8			

转向性能参数
Steering Performance Parameters

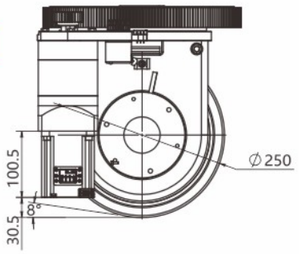
转向电机 Steering Motor	电机功率 Motor Power	W	400	
	电机额定转速 Motor Rated Speed	rpm	3000	
	电机额定扭矩 Motor Rated Torque	Nm	2.39	
转向参数 Steering Parameters	减速机速比 Reducer Ratio	i	35	50
	回转轴承齿数 Slewing Bearing Teeth Number	z	145	
	转向齿轮齿数 Steering Gear Teeth Number	z	25	
	总转向速比 Total Steering Ratio	I	203	290
	允许转向角度(传感器) Allowable Steering Angle (Sensor)	°	±140°	

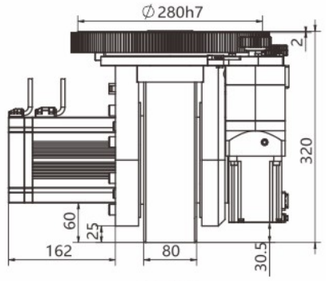
承重性能参数
Load Bearing Performance Parameters

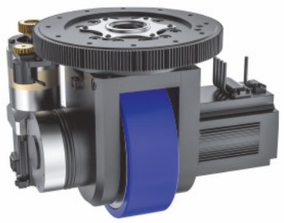
聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	1000
电机长度 Motor Length	mm	小于等于140（回转直径 Swing Diameter 412）

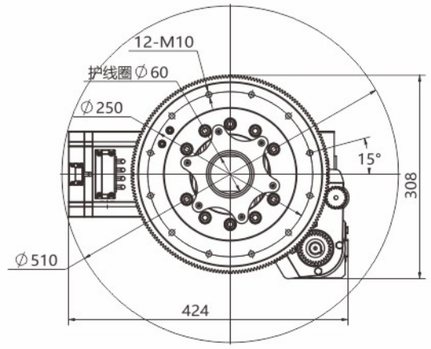
WS250 Serices

WS-250-3000-750









牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	3000		
	电机额定转速 Motor Rated Speed	rpm	3000		
	电机额定扭矩 Motor Rated Torque	Nm	9.55		
行走减速机 Travel Reducer	速比 Reduction Ratio	i	36	48	60
	最大额定输出扭矩 Max Rated Output Torque	Nm	420	420	420
	行走速度 Travel Speed	m/min	65.4	49.1	39.3
	牵引力 Traction Force	N	2470	3000	3000
	牵引重量(仅参考) Traction Weight	kg	4200	5100	5100
	制动扭矩 Braking Torque	Nm	16		

转向性能参数
Steering Performance Parameters

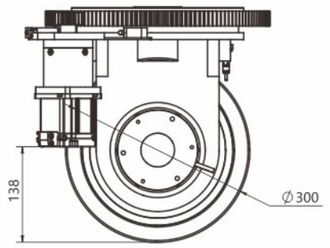
转向电机 Steering Motor	电机功率 Motor Power	W	750	
	电机额定转速 Motor Rated Speed	rpm	3000	
	电机额定扭矩 Motor Rated Torque	Nm	2.39	
转向参数 Steering Parameters	减速机速比 Reducer Ratio	i	35	50
	回转轴承齿数 Slewing Bearing Teeth Number	z	198	
	转向齿轮齿数 Steering Gear Teeth Number	z	30	
	总转向速比 Total Steering Ratio	I	231	330
	允许转向角度(传感器) Allowable Steering Angle (Sensor)	°	±140°	

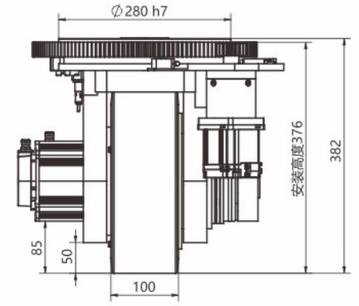
承重性能参数
Load Bearing Performance Parameters

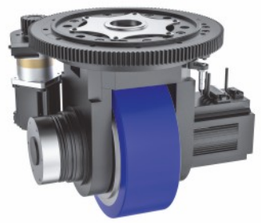
聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	1600
电机长度 Motor Length	mm	小于等于180（回转直径 Swing Diameter 510）

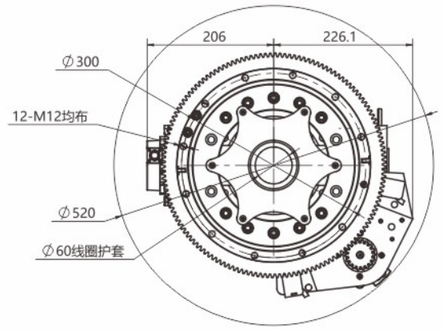
WS300 Serices

WS-300-3000-1000









牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	3000		
	电机额定转速 Motor Rated Speed	rpm	3000		
	电机额定扭矩 Motor Rated Torque	Nm	9.55		
行走减速机 Travel Reducer	速比 Reduction Ratio	i	48	64	80
	最大额定输出扭矩 Max Rated Output Torque	Nm	1000	1000	1000
	行走速度 Travel Speed	m/min	58.9	44.2	35.3
	牵引力 Traction Force	N	2750	3660	4580
	牵引重量(仅参考) Traction Weight	kg	4670	6200	7780
	制动扭矩 Braking Torque	Nm	16		

转向性能参数
Steering Performance Parameters

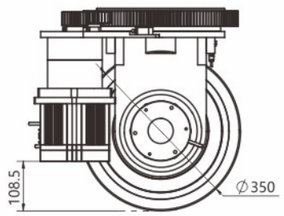
转向电机 Steering Motor	电机功率 Motor Power	W	1000	
	电机额定转速 Motor Rated Speed	rpm	3000	
	电机额定扭矩 Motor Rated Torque	Nm	3.18	
转向参数 Steering Parameters	减速机速比 Reducer Ratio	i	35	50
	回转轴承齿数 Slewing Bearing Teeth Number	z	144	
	转向齿轮齿数 Steering Gear Teeth Number	z	18	
	总转向速比 Total Steering Ratio	I	280	400
	允许转向角度(传感器) Allowable Steering Angle (Sensor)	°	±140°	

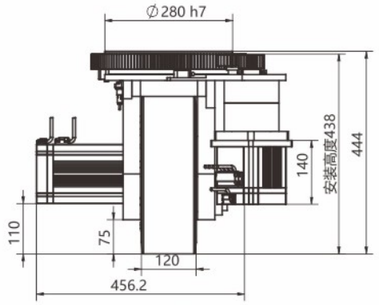
承重性能参数
Load Bearing Performance Parameters

聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	2700
电机长度 Motor Length	mm	小于等于180（回转直径 Swing Diameter 520）

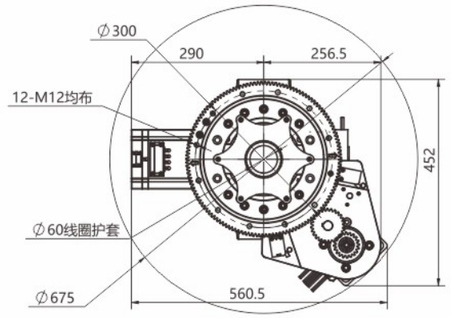
WS350 Serices

WS-350-3000-1500









牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	3000		
	电机额定转速 Motor Rated Speed	rpm	3000		
	电机额定扭矩 Motor Rated Torque	Nm	9.55		
行走减速机 Travel Reducer	速比 Reduction Ratio	i	48	64	80
	最大额定输出扭矩 Max Rated Output Torque	Nm	1000	1000	1000
	行走速度 Travel Speed	m/min	68.7	51.5	41.2
	牵引力 Traction Force	N	2350	3140	3900
	牵引重量(仅参考) Traction Weight	kg	4000	5340	6670
	制动扭矩 Braking Torque	Nm	16		

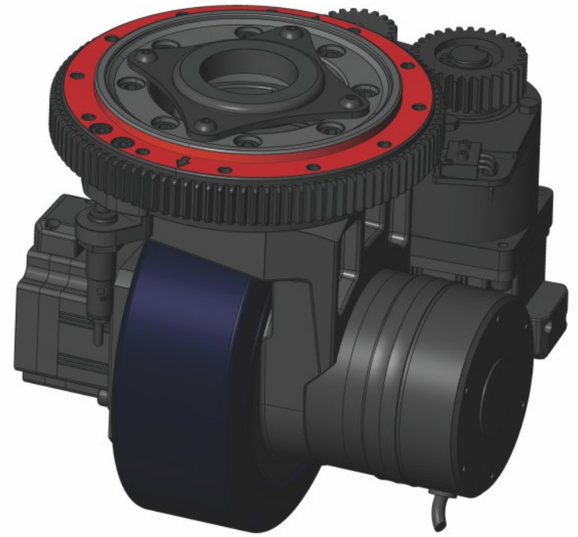
转向性能参数
Steering Performance Parameters

转向电机 Steering Motor	电机功率 Motor Power	W	1500	
	电机额定转速 Motor Rated Speed	rpm	3000	
	电机额定扭矩 Motor Rated Torque	Nm	3.18	
转向参数 Steering Parameters	减速机速比 Reducer Ratio	i	35	50
	回转轴承齿数 Slewing Bearing Teeth Number	z	135	
	转向齿轮齿数 Steering Gear Teeth Number	z	20	
	总转向速比 Total Steering Ratio	I	236.25	337.5
	允许转向角度(传感器) Allowable Steering Angle (Sensor)	°	±140°	

承重性能参数
Load Bearing Performance Parameters

聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	3800
电机长度 Motor Length	mm	小于等于180（回转直径 Swing Diameter 675）

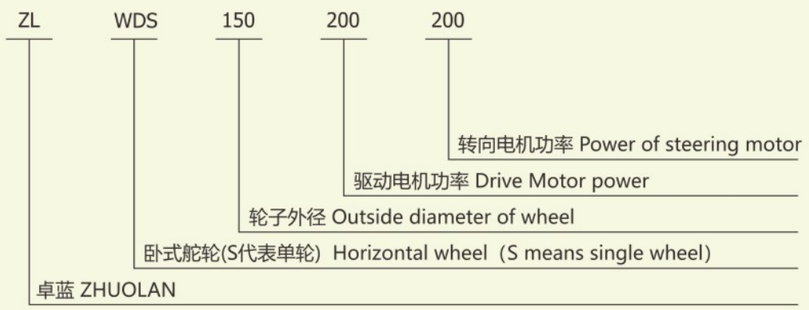
- WDS 150
- WDS 200
- WDS 250



WDS Series

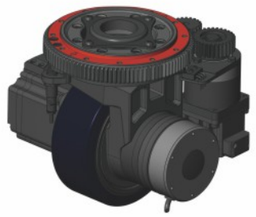


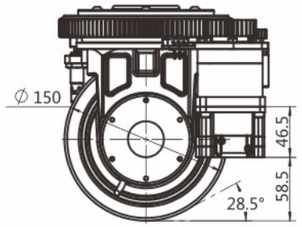
WDS系列型号说明
WDS series model description

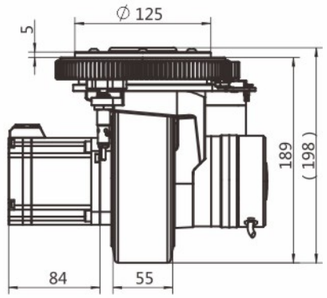


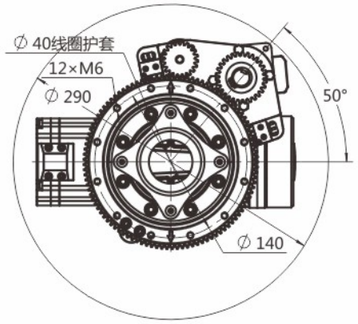
WDS 150 Serices

ZL-WDS-150-750-200

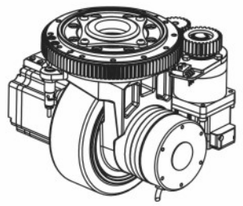












牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	750		
	电机额定转速 Motor Rated Speed	rpm	3000		
	电机额定扭矩 Motor Rated Torque	Nm	2.39		
行走减速机 Travel Reducer	速比 Reduction Ratio	i	20	34	68
	最大额定输出扭矩 Max Rated Output Torque	Nm	235	148	235
	行走速度 Travel Speed	m/min	70.7	41.6	20.8
	牵引力 Traction Force	N	570	970	1950
	牵引重量(仅参考) Traction Weight	kg	970	1650	3300
	制动扭矩 Braking Torque	Nm	6		

转向性能参数
Steering Performance Parameters

转向电机 Steering Motor	电机功率 Motor Power	W	100	
	电机额定转速 Motor Rated Speed	rpm	3000	
	电机额定扭矩 Motor Rated Torque	Nm	1.27	
转向参数 Steering Parameters	减速机速比 Reducer Ratio	i	35	50
	回转轴承齿数 Slewing Bearing Teeth Number	z	105	
	转向齿轮齿数 Steering Gear Teeth Number	z	30	
	总转向速比 Total Steering Ratio	I	122.5	175
	允许转向角度(传感器) Allowable Steering Angle (Sensor)	°	±140°	

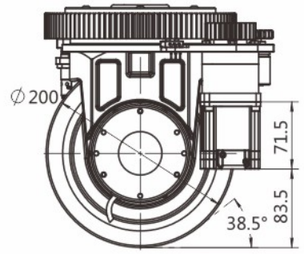
承重性能参数
Load Bearing Performance Parameters

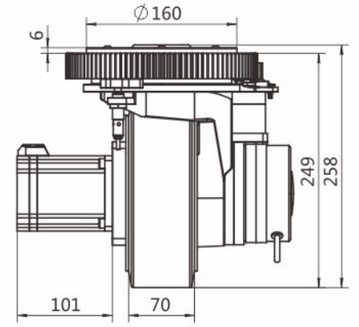
聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	550

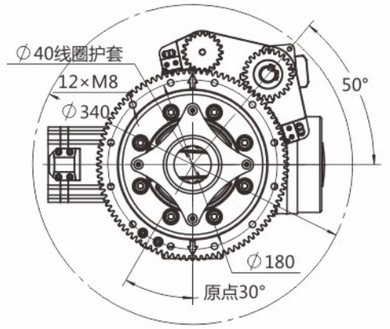
WDS 200 Serices

ZL-WDS-200-1000-400

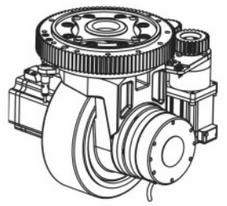












牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	1000		
	电机额定转速 Motor Rated Speed	rpm	3000		
	电机额定扭矩 Motor Rated Torque	Nm	3.18		
行走减速机 Travel Reducer	速比 Reduction Ratio	i	21	41	85
	最大额定输出扭矩 Max Rated Output Torque	Nm	420	310	420
	行走速度 Travel Speed	m/min	89.7	46	22.2
	牵引力 Traction Force	N	600	1170	2400
	牵引重量(仅参考) Traction Weight	kg	1000	1990	4100
	制动扭矩 Braking Torque	Nm	8		

转向性能参数
Steering Performance Parameters

转向电机 Steering Motor	电机功率 Motor Power	W	400	
	电机额定转速 Motor Rated Speed	rpm	3000	
	电机额定扭矩 Motor Rated Torque	Nm	1.27	
转向参数 Steering Parameters	减速机速比 Reducer Ratio	i	35	50
	回转轴承齿数 Slewing Bearing Teeth Number	z	100	
	转向齿轮齿数 Steering Gear Teeth Number	z	25	
	总转向速比 Total Steering Ratio	I	140	200
	允许转向角度(传感器) Allowable Steering Angle (Sensor)	°	±140°	

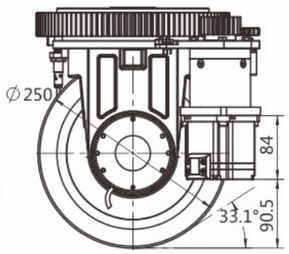
承重性能参数
Load Bearing Performance Parameters

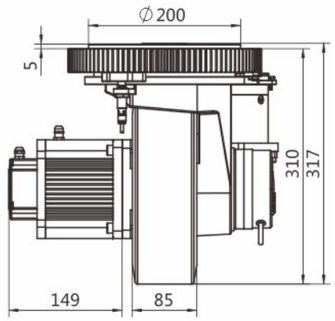
聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	900

WDS 250 Serices

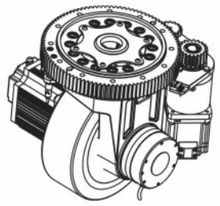
ZL-WDS-250-1500-750

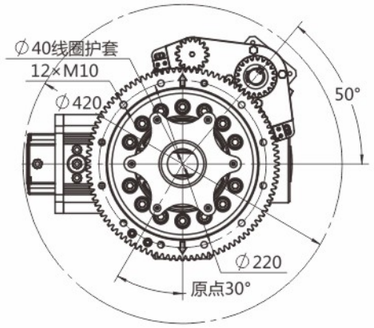












牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	1500		
	电机额定转速 Motor Rated Speed	rpm	3000		
	电机额定扭矩 Motor Rated Torque	Nm	5		
行走减速机 Travel Reducer	速比 Reduction Ratio	i	21	41	85
	最大额定输出扭矩 Max Rated Output Torque	Nm	420	310	420
	行走速度 Travel Speed	m/min	112.1	57.4	22.2
	牵引力 Traction Force	N	750	1470	3000
	牵引重量(仅参考) Traction Weight	kg	1280	2500	5100
	制动扭矩 Braking Torque	Nm	8		

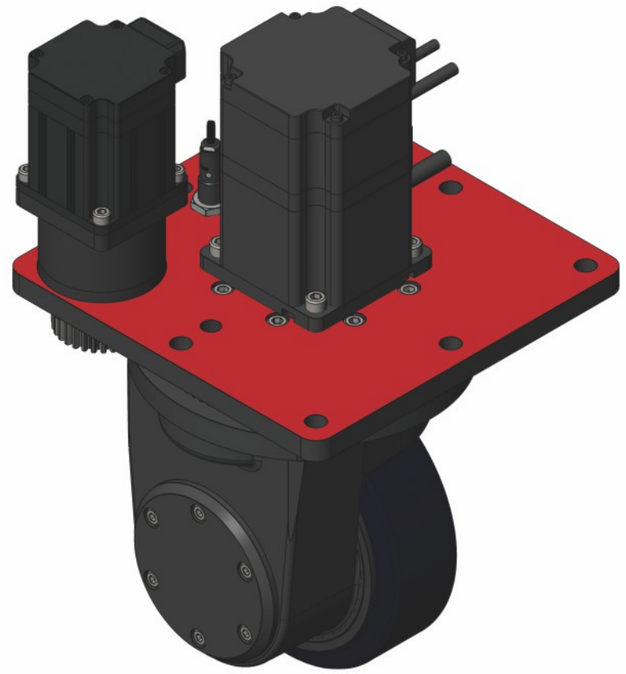
转向性能参数
Steering Performance Parameters

转向电机 Steering Motor	电机功率 Motor Power	W	750	
	电机额定转速 Motor Rated Speed	rpm	3000	
	电机额定扭矩 Motor Rated Torque	Nm	2.39	
转向参数 Steering Parameters	减速机速比 Reducer Ratio	i	35	50
	回转轴承齿数 Slewing Bearing Teeth Number	z	100	
	转向齿轮齿数 Steering Gear Teeth Number	z	25	
	总转向速比 Total Steering Ratio	I	140	200
	允许转向角度(传感器) Allowable Steering Angle (Sensor)	°	±140°	

承重性能参数
Load Bearing Performance Parameters

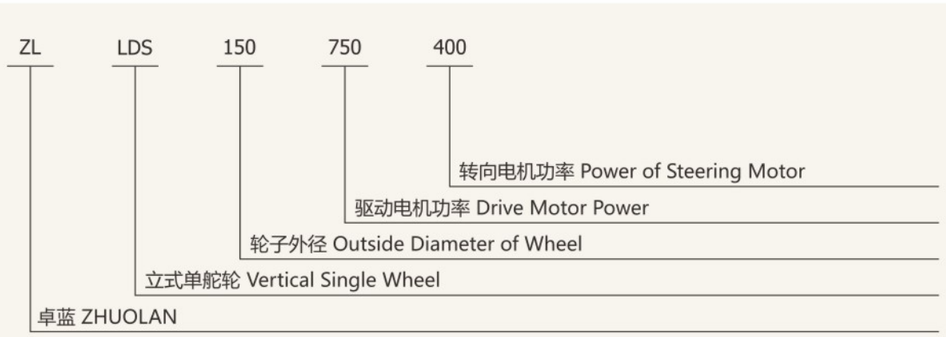
聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	1200

LDS150
LDS230



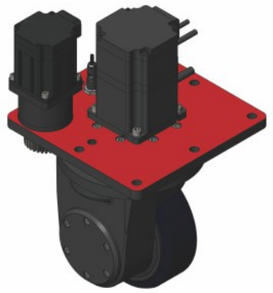
LDS
Series

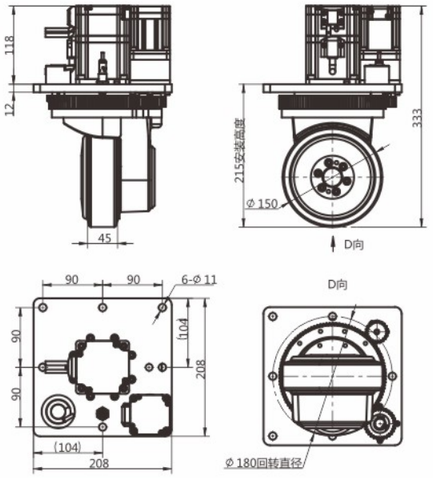
LDS系列型号说明
LDS series model description



LDS150 Series

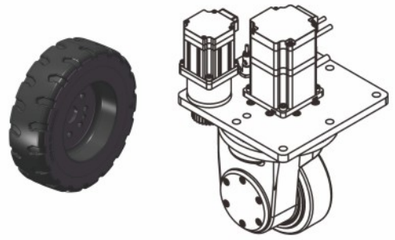
ZL-LDS-150-750-400





行走电机参数
Parameters of walking motor

电机类型 Motor type		伺服电机 Servo motor		
电机功率 Motor power	W	750		
电机电压 Motor voltage	V(DC)	48		
电机电流 Motor current	A	22.44		
电机转速 Motor speed	rpm	3000		
电机扭矩 Motor Torque	N·m	2.387		
防护等级 Protection level	IP	54		
电机编码器 Motor encoder		增量磁编 Magnetic coding		
行走减速比 Walking reducer		16	20	28
行走速度 Walking speed	m/min	88.3	70.7	50.5
舵轮输出扭矩 Output Torque	N·m	34	43	60
牵引力 Traction	N	453	573	573
参考牵引重量 Reference Traction weight	Kg	800	900	900
聚氨酯承重 Polyurethane load-bearing	Kg	550		

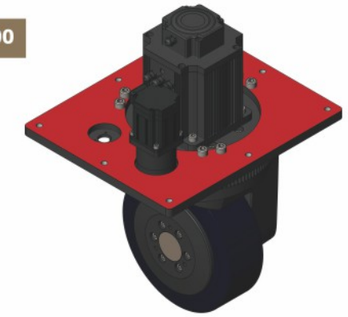


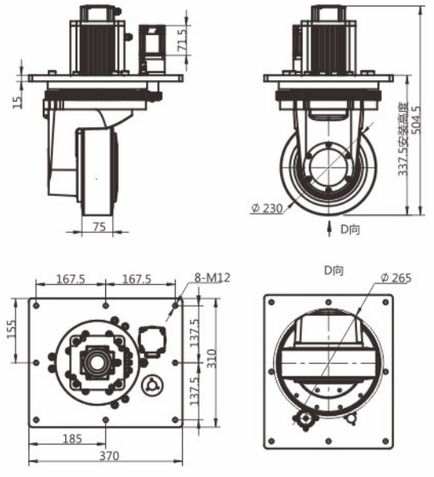
转向电机参数
Steering Motor parameters

转向电机参数 Steering Motor parameters	电机类型 Motor type		伺服电机 Servo motor
	电机功率 Motor power	W	400
	电机电压 Motor voltage	V(DC)	48
	电机电流 Motor current	A	11.95
	电机转速 Motor speed	rpm	3000
	电机扭矩 Motor Torque	N·m	1.27
	防护等级 Protection level	IP	54
	电机编码器 Motor encoder		增量磁编Magnetic coding
	减速器速比 Speed ratio of reducer	i	35
	回转支承齿数 Slewing gear	105	齿数比3.5 : 1 Gear ratio3.5 : 1
	转向齿轮齿数 Number of steering gear teeth	30	
	总转向速比 Total steering ratio	i	122.5
	编码器齿轮齿数 Number of teeth of encoder gear	Z	21
	转向角度 Steering Angle	°	360
制动器 Brake	工作电压 Working voltage	V(DC)	24
	制动扭矩 Braking torque	N·m	3.2
角度传感器 Angle Sensor	型号 Type	SICK	DBS36E-S3EK02000

LDS230 Series

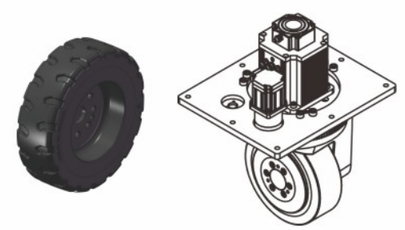
ZL-LDS-230-1500-400





行走电机参数
Parameters of walking motor

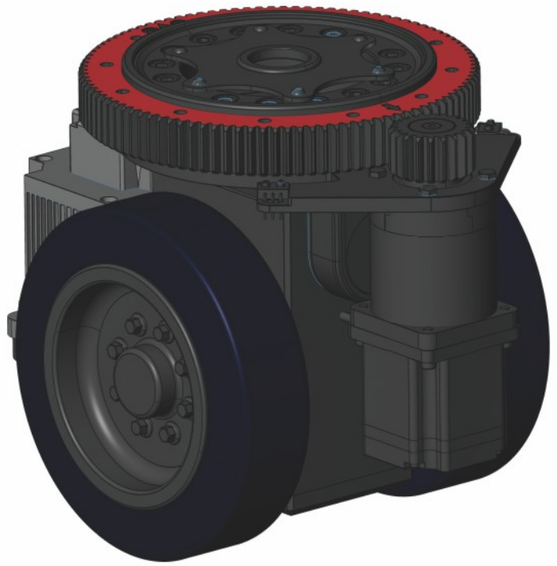
电机类型 Motor type		伺服电机 Servo motor		
电机功率 Motor power	W	1500		
电机电压 Motor voltage	V(DC)	48		
电机电流 Motor current	A	39		
电机转速 Motor speed	rpm	3000		
电机扭矩 Motor Torque	N·m	4.77		
防护等级 Protection level	IP	54		
电机编码器 Motor encoder		增量光编 Incremental Optical Weaving		
行走减速比 Walking reducer		16	20	28
行走速度 Walking speed	m/min	135.4	108.3	77.3
舵轮输出扭矩 Output Torque	N·m	70	90	125
牵引力 Traction	N	608	782	1086
参考牵引重量 Reference Traction weight	Kg	900	1173	1600
聚氨酯承重 Polyurethane load-bearing	Kg	1120		



转向电机参数
Steering Motor parameters

转向电机参数 Steering Motor parameters	电机类型 Motor type		伺服电机 Servo motor
	电机功率 Motor power	W	400
	电机电压 Motor voltage	V(DC)	48
	电机电流 Motor current	A	11.95
	电机转速 Motor speed	rpm	3000
	电机扭矩 Motor Torque	N·m	1.27
	防护等级 Protection level	IP	54
	电机编码器 Motor encoder		增量磁编 Magnetic coding
	减速器速比 Speed ratio of reducer	i	35
	回转支承齿数 Slewing gear	123	齿数比6.15 : 1 Gear ratio6.15 : 1
	转向齿轮齿数 Number of steering gear teeth	20	
	总转向速比 Total steering ratio	i	215.25
	转向角度 Steering Angle	°	360
制动器 Brake	工作电压 Working voltage	V(DC)	
	制动扭矩 Braking torque	N·m	

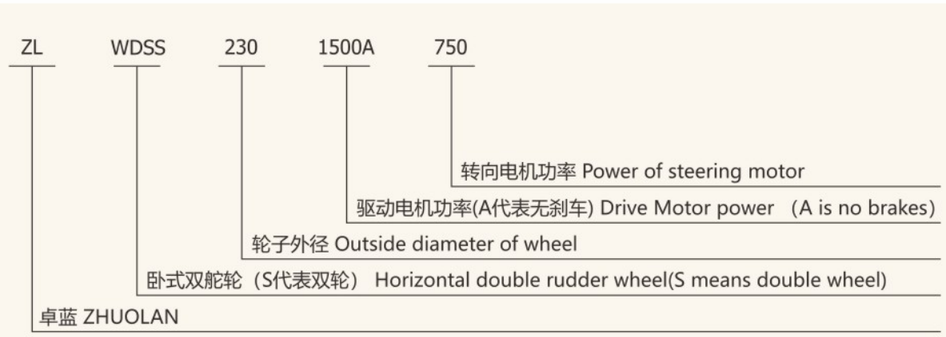
- WDSS 230
- WDSS 250
- WDSS 300
- WDSS 400
- WDSS 580
- WDSS 780





WDSS
Series

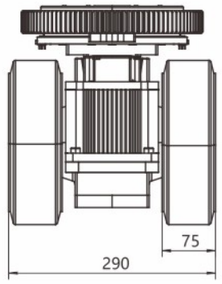
WDSS系列型号说明
WDSS series model description

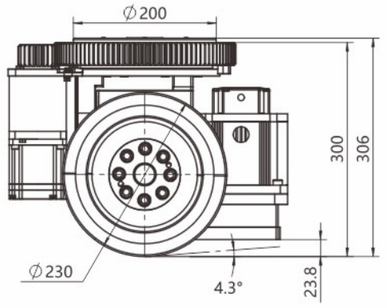


WDSS 230 Series

ZL-WDSS-230-1500A-750

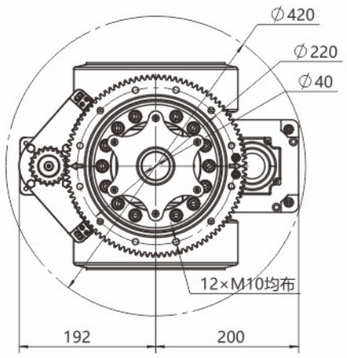






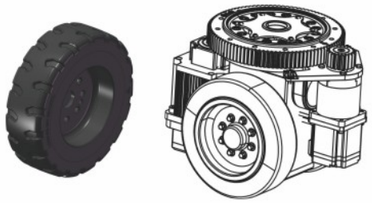
转向电机参数
Steering motor parameters

电机类型 TypeMotor type	DC	伺服电机 Servo motor
电机功率 Motor power	W	750
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	19.9
减速器速比 Speed ratio of reducer	i	35×(100 : 20)
电机扭矩 Motor torque	N·m	2.39
防护等级 Protection level	IP	65
左右限位 Left and right limit	IO	5A125/250VAC
最大转向角度 Steering Angle	°	±140°



牵引电机参数
Parameters of traction motor

电机类型 Motor type	DC	伺服电机 Servo motor
电机功率 Motor power	W	1500
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	37.4
额定扭矩 Rated Torque	N·m	5
防护等级 Protection level	IP	65



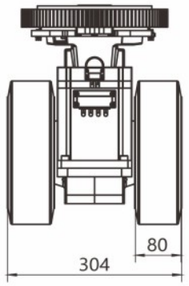
牵引减速机参数
Parameter table of traction reducer

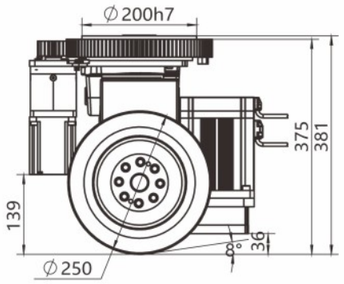
类型 Type	X	行星减速机 Planetary reducer			
减速机速比 Speed ratio of reducer	i	24	30	42	60
减速机扭矩 Reducer torque	N·m	516	567	384	237
聚氨酯承重 Polyurethane load-bearing	Kg	1600	1600	1600	1600
橡胶承重 Rubber bearing	Kg	1100	1100	1100	1100
最大速度 Maximum velocity	M/min	90.3	72.2	51.6	36.1
牵引力 Traction	N	939.1	1174	1643	1855
牵引重量 Traction weight	参考 Reference	1408.7	1761	2465	2782

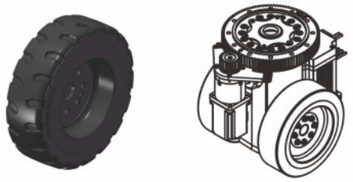
WDSS 250 Series

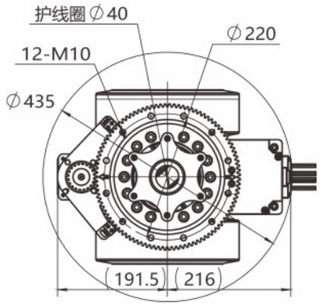
ZL-WDSS-250-2500A-750











牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	2500			
	电机额定转速 Motor Rated Speed	rpm	3000			
	电机额定扭矩 Motor Rated Torque	Nm	7.96			
行走减速机 Travel Reducer	速比 Reduction Ratio	i	24	30	42	60
	最大额定输出扭矩 Max Rated Output Torque	Nm	400	400	384	237
	行走速度 Travel Speed	m/min	98.1	78.5	56.1	39.3
	牵引力 Traction Force	N	1370	1700	2400	1700
	牵引重量(仅参考) Traction Weight	kg	2330	2900	4090	2900

转向性能参数
Steering Performance Parameters

转向电机 Steering Motor	电机功率 Motor Power	W	750	
	电机额定转速 Motor Rated Speed	rpm	3000	
	电机额定扭矩 Motor Rated Torque	Nm	2.39	
转向参数 Steering Parameters	减速机速比 Reducer Ratio	i	35	50
	回转轴承齿数 Slewing Bearing Teeth Number	z	100	
	转向齿轮齿数 Steering Gear Teeth Number	z	20	
	总转向速比 Total Steering Ratio	I	175	250
	允许转向角度(传感器) Allowable Steering Angle (Sensor)	°	±140°	

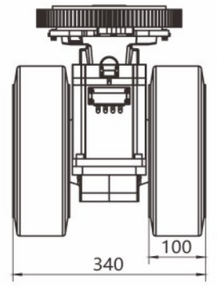
承重性能参数
Load Bearing Performance Parameters

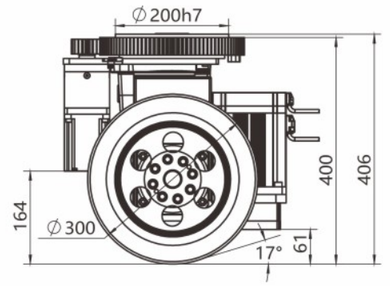
聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	2800

WDSS 300 Series

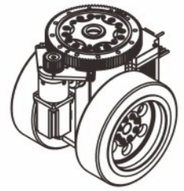
ZL-WDSS-300-3000A-750

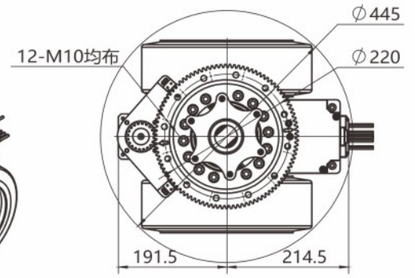












牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	3000			
	电机额定转速 Motor Rated Speed	rpm	3000			
	电机额定扭矩 Motor Rated Torque	Nm	9.55			
行走减速机 Travel Reducer	速比 Reduction Ratio	i	24	30	42	60
	最大额定输出扭矩 Max Rated Output Torque	Nm	400	400	384	237
	行走速度 Travel Speed	m/min	117.8	94.2	67.3	47.1
	牵引力 Traction Force	N	1370	1700	2400	1400
	牵引重量(仅参考) Traction Weight	kg	2300	2900	4090	2380

转向性能参数
Steering Performance Parameters

转向电机 Steering Motor	电机功率 Motor Power	W	750	
	电机额定转速 Motor Rated Speed	rpm	3000	
	电机额定扭矩 Motor Rated Torque	Nm	2.39	
转向参数 Steering Parameters	减速机速比 Reducer Ratio	i	35	50
	回转轴承齿数 Slewing Bearing Teeth Number	z	100	
	转向齿轮齿数 Steering Gear Teeth Number	z	20	
	总转向速比 Total Steering Ratio	I	175	250
	允许转向角度(传感器) Allowable Steering Angle (Sensor)	°	±140°	

承重性能参数
Load Bearing Performance Parameters

聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	3500

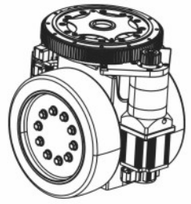
WDSS

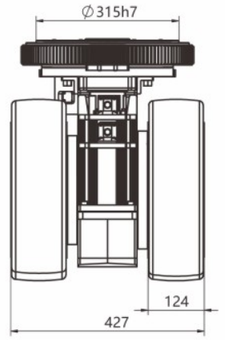
WDSS 400 Series

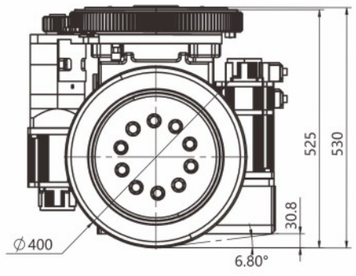
ZL-WDSS-400-3000A-1500

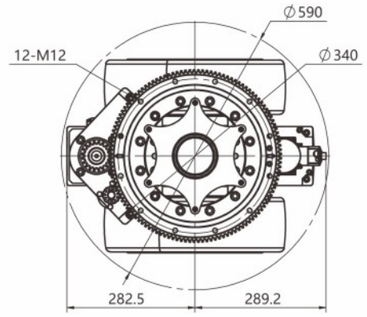












牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	3000			
	电机额定转速 Motor Rated Speed	rpm	2000			
	电机额定扭矩 Motor Rated Torque	Nm	14.33			
行走减速机 Travel Reducer	速比 Reduction Ratio	i	36	45	48	60
	最大额定输出扭矩 Max Rated Output Torque	Nm	750	750	750	750
	行走速度 Travel Speed	m/min	69.8	55.8	52.3	41.9
	牵引力 Traction Force	N	2300	2900	3090	3370
	牵引重量(仅参考) Traction Weight	kg	3940	4900	5260	5700

转向性能参数
Steering Performance Parameters

转向电机 Steering Motor	电机功率 Motor Power	W	1500	
	电机额定转速 Motor Rated Speed	rpm	3000	
	电机额定扭矩 Motor Rated Torque	Nm	5	
转向参数 Steering Parameters	减速机速比 Reducer Ratio	i	35	50
	回转轴承齿数 Slewing Bearing Teeth Number	z	100	
	转向齿轮齿数 Steering Gear Teeth Number	z	20	
	总转向速比 Total Steering Ratio	I	175	250
	允许转向角度(传感器) Allowable Steering Angle (Sensor)	°	±140°	

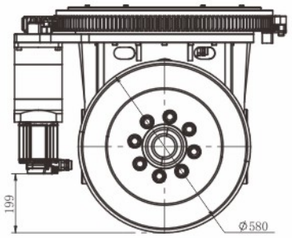
承重性能参数
Load Bearing Performance Parameters

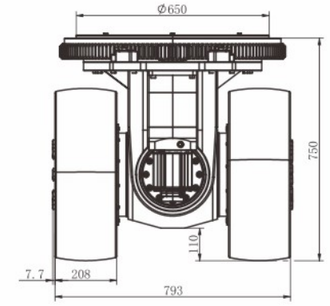
聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	5000

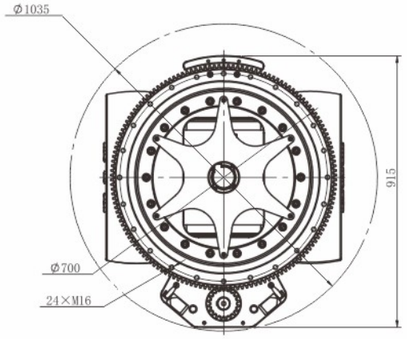
WDSS 580 Series

ZL-WDSS-580-7500A-2350









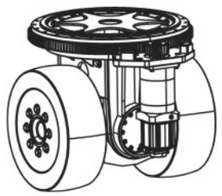
转向电机参数
Steering motor parameters

电机类型 TypeMotor type	DC	伺服电机 Servo motor
电机功率 Motor power	W	2350
电机电压 Motor voltage	V	72
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	41±10%
减速器速比 Speed ratio of reducer	i	64×(150 : 20)
电机扭矩 Motor torque	N·m	7.5
防护等级 Protection level	IP	65
左右限位 Left and right limit	IO	D4V-8108SZ-N8104SZ-N
最大转向角度 Steering Angle	°	±140°

牵引电机参数
Parameters of traction motor

电机类型 Motor type	DC	伺服电机 Servo motor
电机功率 Motor power	W	7500
电机电压 Motor voltage	V	72
电机转速 Motor speed	rpm	2000
电机电流 Motor current	A	135±10%
额定扭矩 Rated Torque	N·m	35
防护等级 Protection level	IP	65

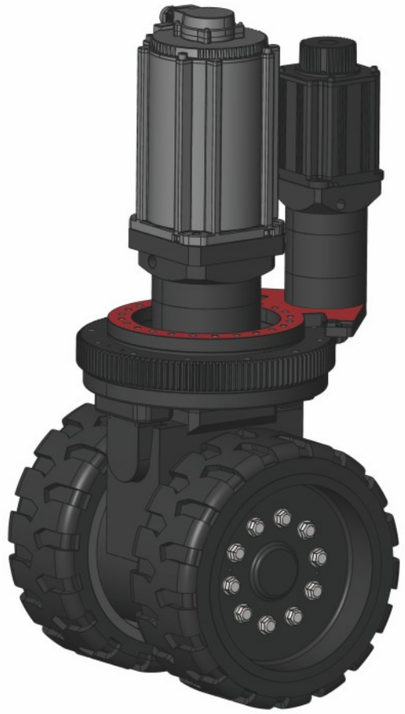




牵引减速机参数
Parameter table of traction reducer

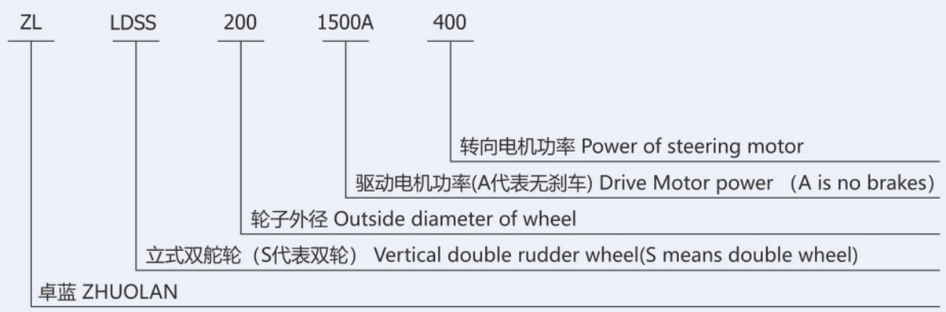
类型 Type	X	行星减速机 Planetary reducer		
减速机速比 Speed ratio of reducer	i	108	144	180
减速机扭矩 Reducer torque	N·m	4800	4800	4800
聚氨酯承重 Polyurethane load-bearing	Kg	11200	11200	11200
橡胶承重 Rubber bearing	Kg	6200	6200	6200
制动扭矩 Braking torque	N·m	4860	6480	8100
制动器扭矩 Brake torque	N·m	50	50	50
制动器电压 Brake voltage	V	DC24	DC24	DC24
最大速度 Maximum velocity	M/min	33.7	25.3	20.2
牵引力 Traction	N	6455	6455	6455
牵引重量 Traction weight	参考Reference	9682	9682	9682

- LDSS 200
- LDSS 250
- LDSS 350
- LDSS 400



LDSS
Series

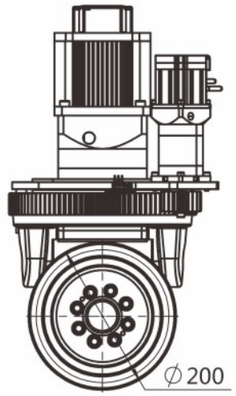
LDSS系列型号说明
LDSS series model description



LDSS 200 Series

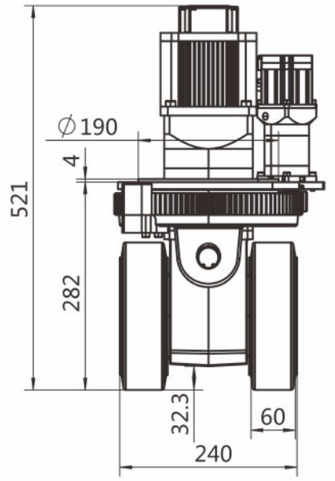
ZL-LDSS-200-1500A-400

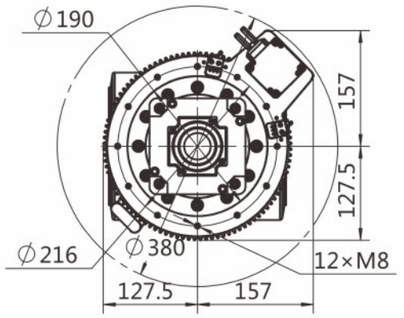




转向电机参数
Steering motor parameters

电机类型 TypeMotor type	DC	伺服电机 Servo motor
电机功率 Motor power	W	400
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	10.1
减速器速比 Speed ratio of reducer	i	35×(100 : 20)
电机扭矩 Motor torque	N·m	1.27
防护等级 Protection level	IP	65
左右限位 Left and right limit	IO	5A125/250VAC
最大转向角度 Steering Angle	°	±140°

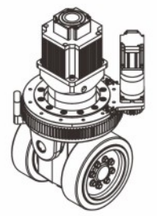




牵引电机参数
Parameters of traction motor

电机类型 Motor type	DC	伺服电机 Servo motor
电机功率 Motor power	W	1500
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	37.4
额定扭矩 Rated Torque	N·m	5
防护等级 Protection level	IP	65





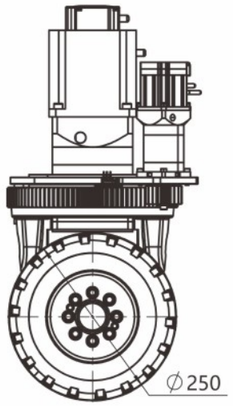
牵引减速机参数
Parameter table of traction reducer

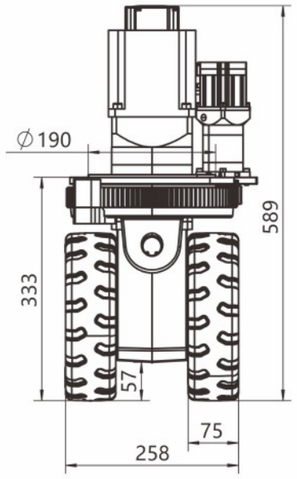
类型 Type	X	行星减速机 Planetary reducer			
减速机速比 Speed ratio of reducer	I	16	20	28	40
减速机扭矩 Reducer torque	N·m	888	940	632	372
聚氨酯承重 Polyurethane load-bearing	Kg	1600	1600	1600	1600
橡胶承重 Rubber bearing	Kg	1100	1100	1100	1100
制动扭矩 Braking torque	N·m	240	300	420	600
制动器扭矩 Brake torque	N·m	15	15	15	15
制动器电压 Brake voltage	V	DC24	DC24	DC24	DC24
最大速度 Maximum velocity	M/min	117.8	94.2	67.3	47.1
牵引力 Traction	N	720	900	1260	1800
牵引重量 Traction weight	参考 Reference	1080	1350	1890	2700

LDSS 250 Series

ZL-LDSS-250-2300A-750

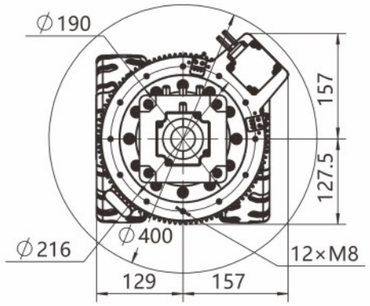






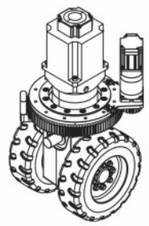
转向电机参数
Steering motor parameters

电机类型 TypeMotor type	DC	伺服电机 Servo motor
电机功率 Motor power	W	750
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	19
减速器速比 Speed ratio of reducer	i	35×(100 : 20)
电机扭矩 Motor torque	N·m	2.39
防护等级 Protection level	IP	65
左右限位 Left and right limit	IO	5A125/250VAC
最大转向角度 Steering Angle	°	±140°



牵引电机参数
Parameters of traction motor

电机类型 Motor type	DC	伺服电机 Servo motor
电机功率 Motor power	W	2300
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	67
额定扭矩 Rated Torque	N·m	7.3
防护等级 Protection level	IP	65



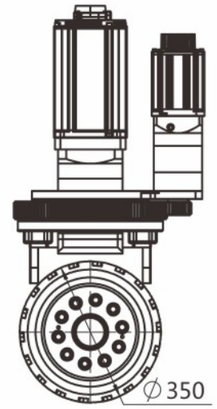
牵引减速机参数
Parameter table of traction reducer

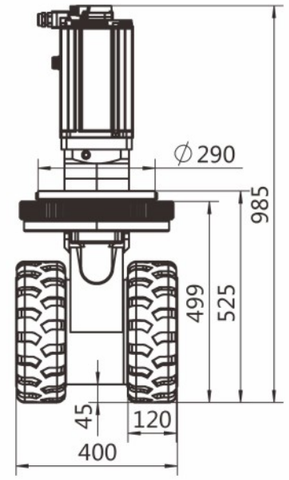
类型 Type	X	行星减速机 Planetary reducer			
减速机速比 Speed ratio of reducer	I	16	20	28	40
减速机扭矩 Reducer torque	N·m	888	940	632	372
聚氨酯承重 Polyurethane load-bearing	Kg	2200	2200	2200	2200
橡胶承重 Rubber bearing	Kg	1400	1400	1400	1400
制动扭矩 Braking torque	N·m	240	300	420	600
制动器扭矩 Brake torque	N·m	15	15	15	15
制动器电压 Brake voltage	V	DC24	DC24	DC24	DC24
最大速度 Maximum velocity	M/min	147.2	117.8	84.1	58.9
牵引力 Traction	N	841	1051.2	1472	2102
牵引重量 Traction weight	参考 Reference	1261	1576.8	2208	3154

LDSS 350 Series

ZL-LDSS-350-7500A-1500

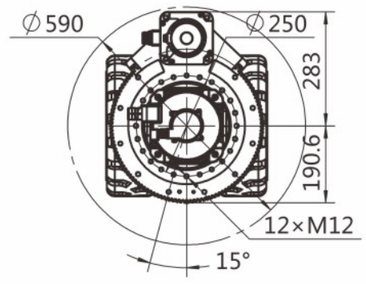






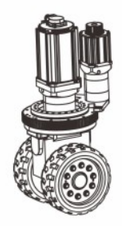
转向电机参数
Steering motor parameters

电机类型 TypeMotor type	DC	伺服电机 Servo motor
电机功率 Motor power	W	1500
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	37.4
减速器速比 Speed ratio of reducer	i	35×(100 : 20)
电机扭矩 Motor torque	N·m	7.3
防护等级 Protection level	IP	65
左右限位 Left and right limit	IO	5A125/250VAC
最大转向角度 Steering Angle	°	±140°



牵引电机参数
Parameters of traction motor

电机类型 Motor type	DC	伺服电机 Servo motor
电机功率 Motor power	W	7500
电机电压 Motor voltage	V	72
电机转速 Motor speed	rpm	2000
电机电流 Motor current	A	135±10%
额定扭矩 Rated Torque	N·m	35
防护等级 Protection level	IP	65



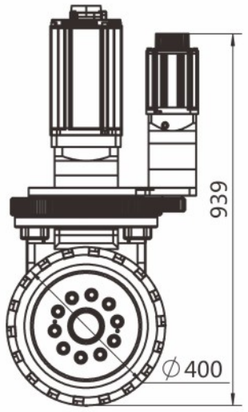
牵引减速机参数
Parameter table of traction reducer

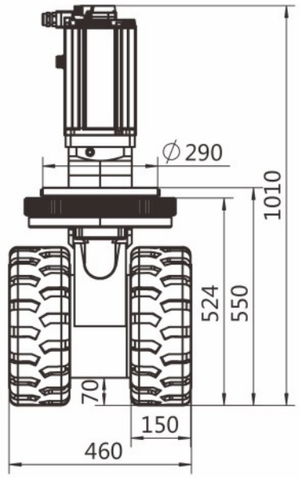
类型 Type	X	行星减速机 Planetary reducer			
减速机速比 Speed ratio of reducer	I	12	15	24	36
减速机扭矩 Reducer torque	N·m	1815	1260	810	2040
聚氨酯承重 Polyurethane load-bearing	Kg	4300	4300	4300	4300
橡胶承重 Rubber bearing	Kg	2500	2500	2500	2500
制动扭矩 Braking torque	N·m	600	750	1200	1800
制动器扭矩 Brake torque	N·m	50	50	50	50
制动器电压 Brake voltage	V	DC24	DC24	DC24	DC24
最大速度 Maximum velocity	M/min	183.2	146.5	91.6	61.1
牵引力 Traction	N	2160	2700	4320	6480
牵引重量 Traction weight	参考 Reference	3240	4050	6480	9720

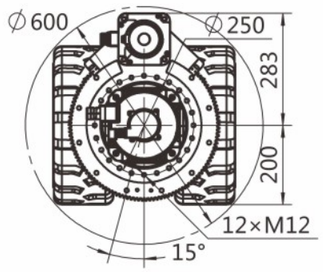
LDSS 400 Series

ZL-LDSS-400-7500A-1500







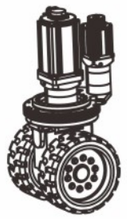


转向电机参数
Steering motor parameters

电机类型 TypeMotor type	DC	伺服电机 Servo motor
电机功率 Motor power	W	1500
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	37.4
减速器速比 Speed ratio of reducer	i	35×(100 : 20)
电机扭矩 Motor torque	N·m	7.3
防护等级 Protection level	IP	65
左右限位 Left and right limit	IO	5A125/250VAC
最大转向角度 Steering Angle	°	±140°

牵引电机参数
Parameters of traction motor

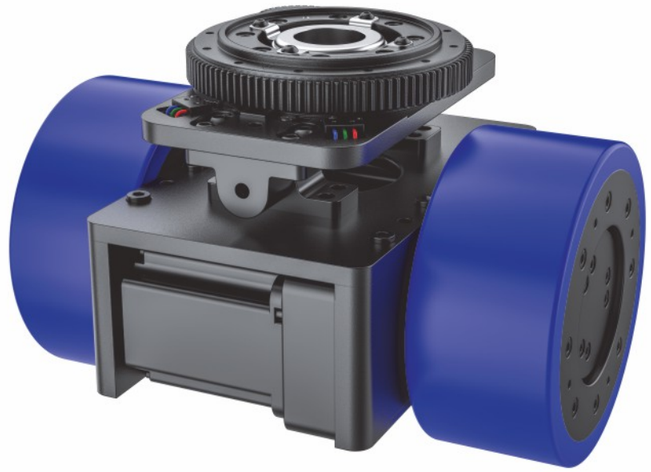
电机类型 Motor type	DC	伺服电机 Servo motor
电机功率 Motor power	W	7500
电机电压 Motor voltage	V	72
电机转速 Motor speed	rpm	2000
电机电流 Motor current	A	135±10%
额定扭矩 Rated Torque	N·m	35
防护等级 Protection level	IP	65



牵引减速机参数
Parameter table of traction reducer

类型 Type	X	行星减速机 Planetary reducer			
减速机速比 Speed ratio of reducer	I	12	15	24	36
减速机扭矩 Reducer torque	N·m	1815	1260	810	2040
聚氨酯承重 Polyurethane load-bearing	Kg	5000	5000	5000	5000
橡胶承重 Rubber bearing	Kg	3000	3000	3000	3000
制动扭矩 Braking torque	N·m	600	750	1200	1800
制动器扭矩 Brake torque	N·m	50	50	50	50
制动器电压 Brake voltage	V	DC24	DC24	DC24	DC24
最大速度 Maximum velocity	M/min	209.3	167.5	104.7	69.8
牵引力 Traction	N	1890	2362.5	3780	5670
牵引重量 Traction weight	参考 Reference	2835	3543.8	5670	8505

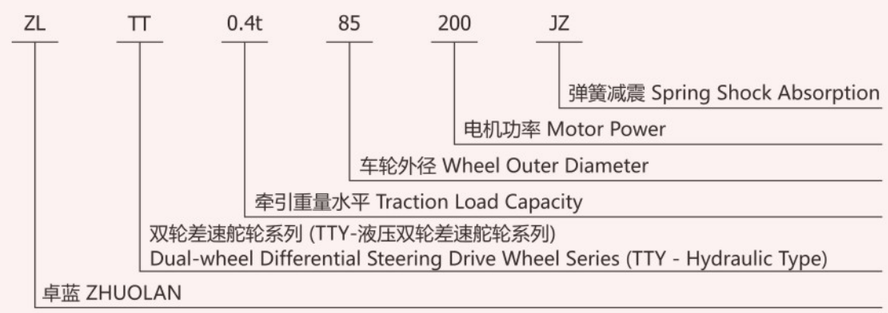
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- TT0.6T
- TT1T
- TT2T
- TT4T
- TT6T
- TT10T
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- TT20T
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- TTY10T
- TTY15T
- TTY20T
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TT

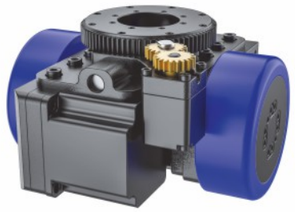
Series

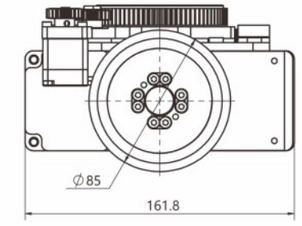
TT系列型号说明
TT series model description

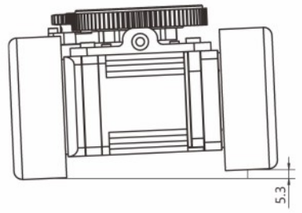


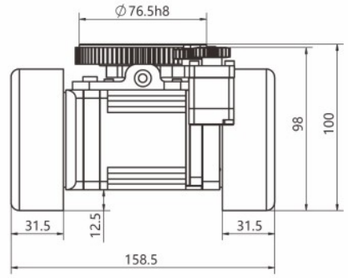
TT0.4T Serices

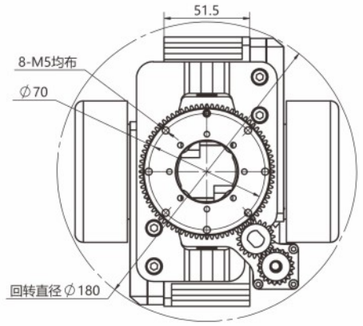
TT0.4t-85-200











牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	200	
	电机额定转速 Motor Rated Speed	rpm	3000	
	电机额定扭矩 Motor Rated Torque	Nm	0.64	
行走减速机 Travel Reducer	速比 Reduction Ratio	i	8	10
	最大额定输出扭矩 Max Rated Output Torque	Nm	9*2	9*2
	行走速度 Travel Speed	m/min	100	80
	牵引力 Traction Force	N	210	270
	牵引重量(仅参考) Traction Weight	kg	360	460

转向性能参数
Steering Performance Parameters

回转轴承齿数 Number of Teeth of Slewing Bearing	z	80
编码器齿轮齿数 Number of Teeth of Encoder Gear	z	20
速比 Gear Ratio	I	4
允许转向角度 (传感器) Permissible Steering Angle (Sensor)	°	360

承重性能参数
Load Bearing Performance Parameters

聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	300

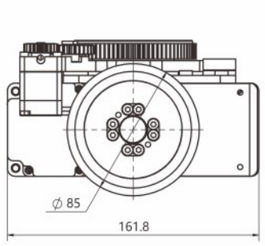
摆动浮动参数
Swing Floating Parameters

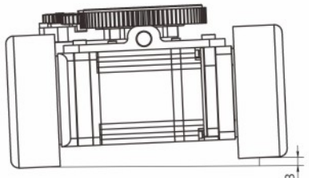
双轮摆动高度差 Height Difference of Dual-wheel Swing	mm	5.3

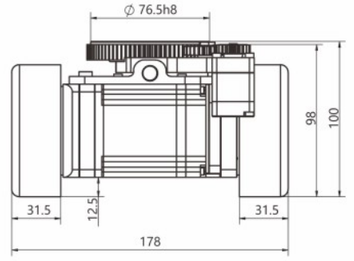
TT0.4T Serices

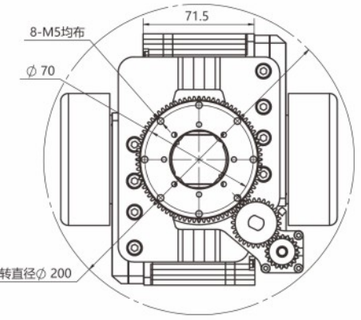
TT0.4t-85-400











牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	400	
	电机额定转速 Motor Rated Speed	rpm	3000	
	电机额定扭矩 Motor Rated Torque	Nm	1.27	
行走减速机 Travel Reducer	速比 Reduction Ratio	i	8	10
	最大额定输出扭矩 Max Rated Output Torque	Nm	9*2	9*2
	行走速度 Travel Speed	m/min	100	80
	牵引力 Traction Force	N	380	380
	牵引重量(仅参考) Traction Weight	kg	650	650

转向性能参数
Steering Performance Parameters

回转轴承齿数 Number of Teeth of Slewing Bearing	z	80
编码器齿轮齿数 Number of Teeth of Encoder Gear	z	20
速比 Gear Ratio	I	4
允许转向角度 (传感器) Permissible Steering Angle (Sensor)	°	360

承重性能参数
Load Bearing Performance Parameters

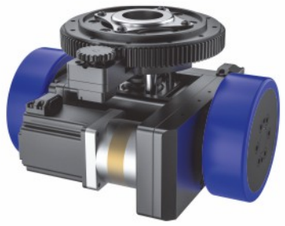
聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	300

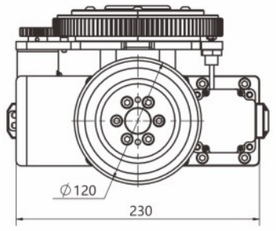
摆动浮动参数
Swing Floating Parameters

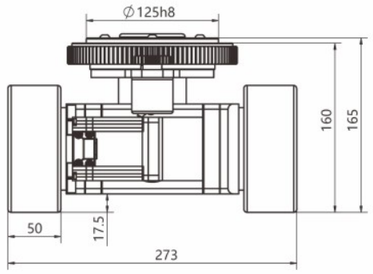
双轮摆动高度差 Height Difference of Dual-wheel Swing	mm	5.3

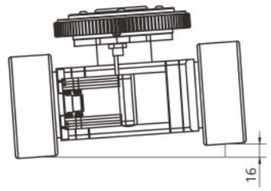
TT0.6T Serices

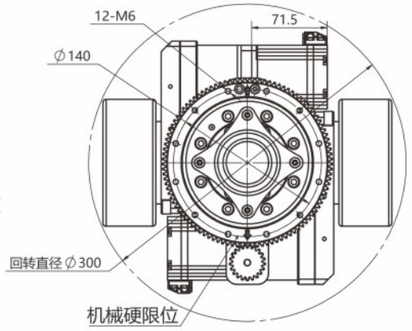
TT0.6t-120-400











牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	400			
	电机额定转速 Motor Rated Speed	rpm	3000			
	电机额定扭矩 Motor Rated Torque	Nm	1.27			
行走减速机 Travel Reducer	速比 Reduction Ratio	i	12	16	20	25
	最大额定输出扭矩 Max Rated Output Torque	Nm	30*2	30*2	30*2	33*2
	行走速度 Travel Speed	m/min	94.2	70.6	56.5	45.2
	牵引力 Traction Force	N	450	610	760	950
	牵引重量(仅参考) Traction Weight	kg	780	1030	1300	1600

转向性能参数
Steering Performance Parameters

回转轴承齿数 Number of Teeth of Slewing Bearing	z	105
编码器齿轮齿数 Number of Teeth of Encoder Gear	z	21
速比 Gear Ratio	I	5
允许转向角度 (传感器) Permissible Steering Angle (Sensor)	°	±180

承重性能参数
Load Bearing Performance Parameters

聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	600

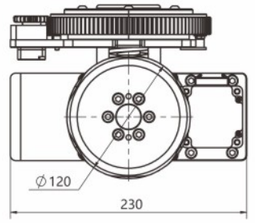
摆动浮动参数
Swing Floating Parameters

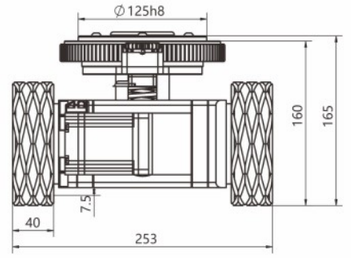
双轮摆动高度差 Height Difference of Dual-wheel Swing	mm	15

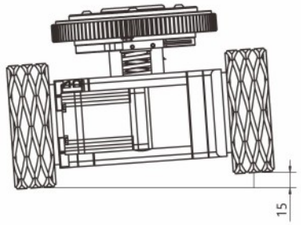
TT0.6T Serices

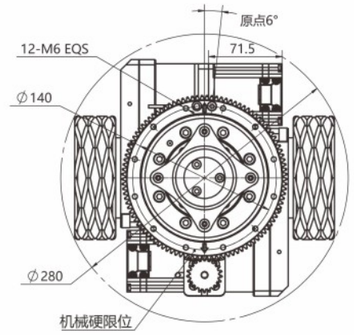
TT0.6t-120-400-JZ











牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	400			
	电机额定转速 Motor Rated Speed	rpm	3000			
	电机额定扭矩 Motor Rated Torque	Nm	1.27			
行走减速机 Travel Reducer	速比 Reduction Ratio	i	12	16	20	25
	最大额定输出扭矩 Max Rated Output Torque	Nm	30*2	30*2	30*2	33*2
	行走速度 Travel Speed	m/min	94.2	70.6	56.5	45.2
	牵引力 Traction Force	N	450	610	760	950
	牵引重量(仅参考) Traction Weight	kg	780	1030	1300	1600

转向性能参数
Steering Performance Parameters

回转轴承齿数 Number of Teeth of Slewing Bearing	z	105
编码器齿轮齿数 Number of Teeth of Encoder Gear	z	21
速比 Gear Ratio	I	5
允许转向角度 (传感器) Permissible Steering Angle (Sensor)	°	±180

承重性能参数
Load Bearing Performance Parameters

舵轮承重 Load Capacity of Steering Wheel	Kg	400

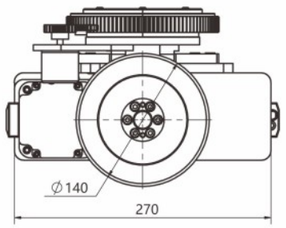
摆动浮动参数
Swing Floating Parameters

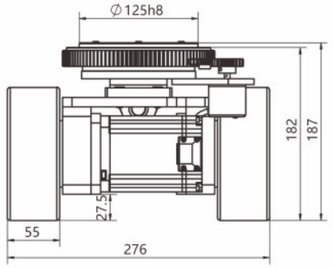
双轮摆动高度差 Height Difference of Dual-wheel Swing	mm	15
工作状态弹簧行程 Spring Stroke in Working Condition	mm	±20
工作状态车轮行程 Wheel Stroke in Working Condition	mm	±20

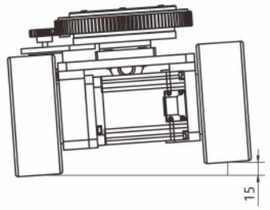
TT1T Serices

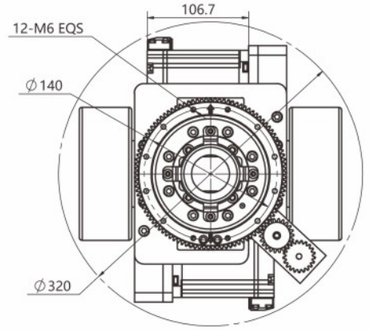
TT1t-140-750











T

牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	750		
	电机额定转速 Motor Rated Speed	rpm	3000		
	电机额定扭矩 Motor Rated Torque	Nm	2.39		
行走减速机 Travel Reducer	速比 Reduction Ratio	i	12	15	20
	最大额定输出扭矩 Max Rated Output Torque	Nm	30*2	30*2	30*2
	行走速度 Travel Speed	m/min	110	88	66
	牵引力 Traction Force	N	740	770	770
	牵引重量(仅参考) Traction Weight	kg	1250	1300	1300

转向性能参数
Steering Performance Parameters

回转轴承齿数 Number of Teeth of Slewing Bearing	z	105	
编码器齿轮齿数 Number of Teeth of Encoder Gear	z	21	
速比 Gear Ratio	I	5	
允许转向角度 (传感器) Permissible Steering Angle (Sensor)	°	±140	

承重性能参数
Load Bearing Performance Parameters

聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	1000

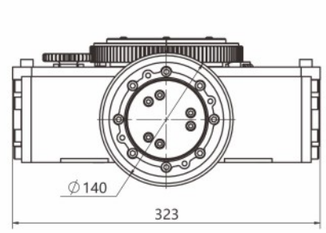
摆动浮动参数
Swing Floating Parameters

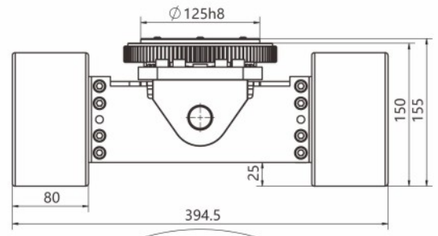
双轮摆动高度差 Height Difference of Dual-wheel Swing	mm	15

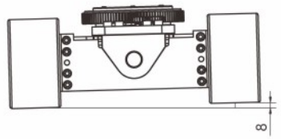
TT2T Serices

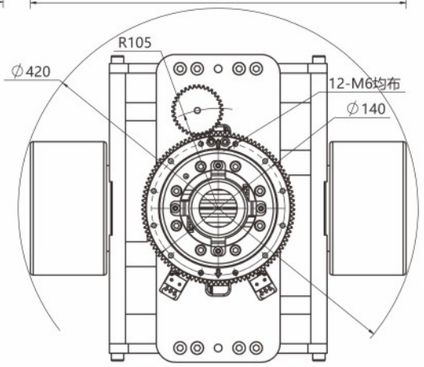
TT2t-140-1000











T

牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	1000		
	电机额定转速 Motor Rated Speed	rpm	3000		
	电机额定扭矩 Motor Rated Torque	Nm	3.18		
行走减速机 Travel Reducer	速比 Reduction Ratio	i	16	20	28
	最大额定输出扭矩 Max Rated Output Torque	Nm	94.5*2	94.5*2	78*2
	行走速度 Travel Speed	m/min	82.4	65.9	47.1
	牵引力 Traction Force	N	1300	1630	2000
	牵引重量(仅参考) Traction Weight	kg	2200	2780	3400

转向性能参数
Steering Performance Parameters

回转轴承齿数 Number of Teeth of Slewing Bearing	z	105
编码器齿轮齿数 Number of Teeth of Encoder Gear	z	34
速比 Gear Ratio	I	3.0882
允许转向角度 (传感器) Permissible Steering Angle (Sensor)	°	±140

承重性能参数
Load Bearing Performance Parameters

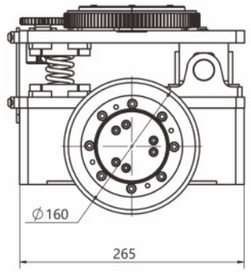
聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	1300

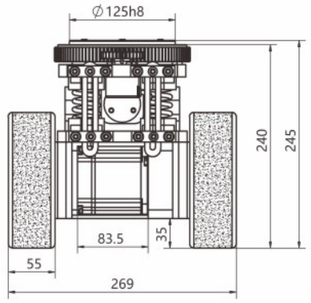
摆动浮动参数
Swing Floating Parameters

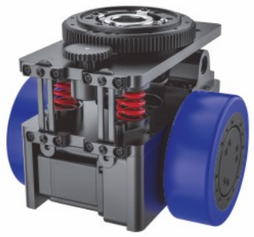
双轮摆动高度差 Height Difference of Dual-wheel Swing	mm	8

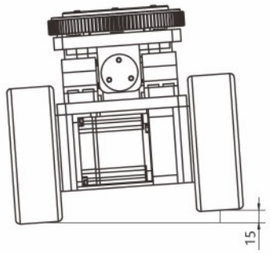
TT2T Serices

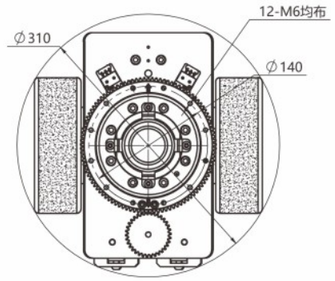
TT2t-160-750-JZ











牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	750		
	电机额定转速 Motor Rated Speed	rpm	3000		
	电机额定扭矩 Motor Rated Torque	Nm	2.39		
行走减速机 Travel Reducer	速比 Reduction Ratio	i	16	20	28
	最大额定输出扭矩 Max Rated Output Torque	Nm	94.5*2	94.5*2	78*2
	行走速度 Travel Speed	m/min	94.2	75.3	53.8
	牵引力 Traction Force	N	860	1070	1500
	牵引重量(仅参考) Traction Weight	kg	1460	1830	2560

转向性能参数
Steering Performance Parameters

回转轴承齿数 Number of Teeth of Slewing Bearing	z	105	
编码器齿轮齿数 Number of Teeth of Encoder Gear	z	34	
速比 Gear Ratio	I	3.0882	
允许转向角度 (传感器) Permissible Steering Angle (Sensor)	°	±140	

承重性能参数
Load Bearing Performance Parameters

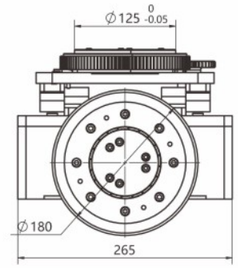
舵轮承重 Load Capacity of Steering Wheel	Kg	700

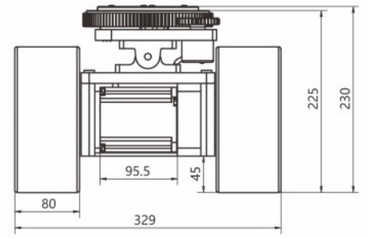
摆动浮动参数
Swing Floating Parameters

双轮摆动高度差 Height Difference of Dual-wheel Swing	mm	20
工作状态弹簧行程 Spring Stroke in Working Condition	mm	±10
工作状态车轮行程 Wheel Stroke in Working Condition	mm	±5

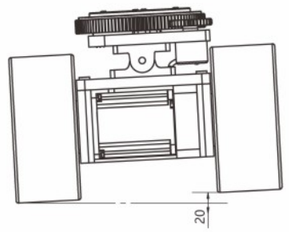
TT2T Serices

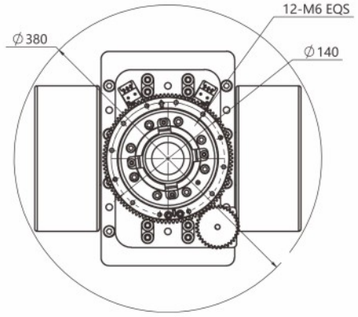
TT2t-180-1000











牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	1000		
	电机额定转速 Motor Rated Speed	rpm	3000		
	电机额定扭矩 Motor Rated Torque	Nm	3.18		
行走减速机 Travel Reducer	速比 Reduction Ratio	i	16	20	28
	最大额定输出扭矩 Max Rated Output Torque	Nm	94.5*2	94.5*2	78*2
	行走速度 Travel Speed	m/min	106	84.8	60.5
	牵引力 Traction Force	N	1000	1270	1560
	牵引重量(仅参考) Traction Weight	kg	1730	2160	2650

转向性能参数
Steering Performance Parameters

回转轴承齿数 Number of Teeth of Slewing Bearing	z	105	
编码器齿轮齿数 Number of Teeth of Encoder Gear	z	34	
速比 Gear Ratio	I	3.0882	
允许转向角度 (传感器) Permissible Steering Angle (Sensor)	°	±140	

承重性能参数
Load Bearing Performance Parameters

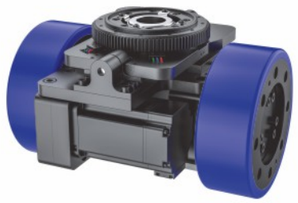
聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	2000

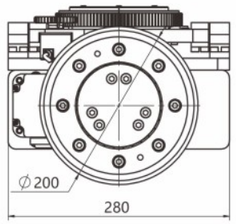
摆动浮动参数
Swing Floating Parameters

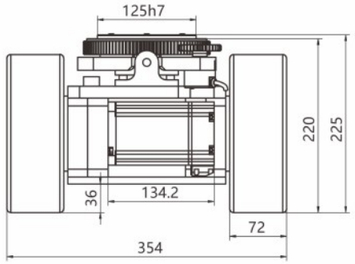
双轮摆动高度差 Height Difference of Dual-wheel Swing	mm	15

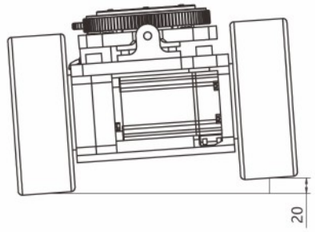
TT4T Serices

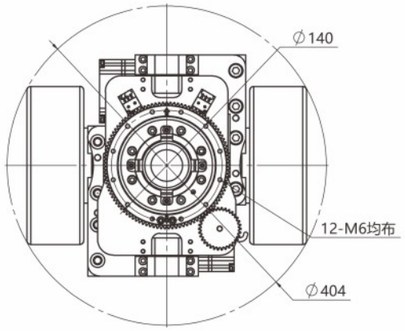
TT4t-200-1200











牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	1200		
	电机额定转速 Motor Rated Speed	rpm	3000		
	电机额定扭矩 Motor Rated Torque	Nm	3.82		
行走减速机 Travel Reducer	速比 Reduction Ratio	i	17.6	22	30.8
	最大额定输出扭矩 Max Rated Output Torque	Nm	235*2	235*2	235*2
	行走速度 Travel Speed	m/min	107	85.6	61
	牵引力 Traction Force	N	1200	1500	2100
	牵引重量(仅参考) Traction Weight	kg	2060	2570	3600

转向性能参数
Steering Performance Parameters

回转轴承齿数 Number of Teeth of Slewing Bearing	z	105
编码器齿轮齿数 Number of Teeth of Encoder Gear	z	34
速比 Gear Ratio	I	5
允许转向角度 (传感器) Permissible Steering Angle (Sensor)	°	±140

承重性能参数
Load Bearing Performance Parameters

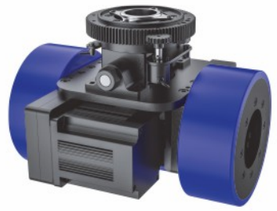
聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	2000

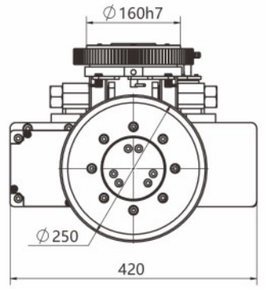
摆动浮动参数
Swing Floating Parameters

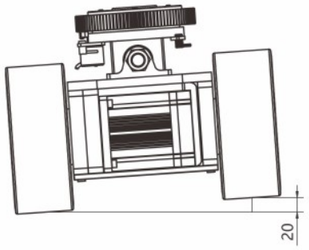
双轮摆动高度差 Height Difference of Dual-wheel Swing	mm	20

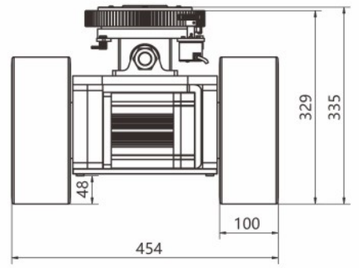
TT4T Serices

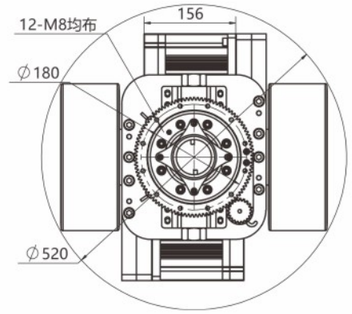
TT4t-250-1500











牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	1500		
	电机额定转速 Motor Rated Speed	rpm	3000		
	电机额定扭矩 Motor Rated Torque	Nm	5		
行走减速机 Travel Reducer	速比 Reduction Ratio	i	28	35	49
	最大额定输出扭矩 Max Rated Output Torque	Nm	235*2	235*2	235*2
	行走速度 Travel Speed	m/min	84	67.3	48
	牵引力 Traction Force	N	2000	2500	3380
	牵引重量(仅参考) Traction Weight	kg	3400	4280	5750

转向性能参数
Steering Performance Parameters

回转轴承齿数 Number of Teeth of Slewing Bearing	z	100
编码器齿轮齿数 Number of Teeth of Encoder Gear	z	20
速比 Gear Ratio	I	5
允许转向角度 (传感器) Permissible Steering Angle (Sensor)	°	±140

承重性能参数
Load Bearing Performance Parameters

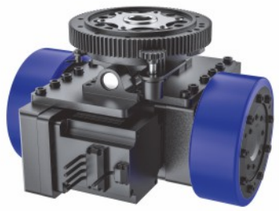
聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	4000

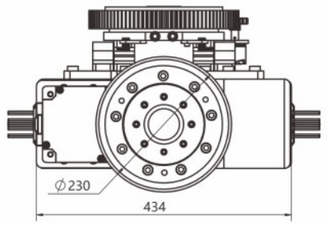
摆动浮动参数
Swing Floating Parameters

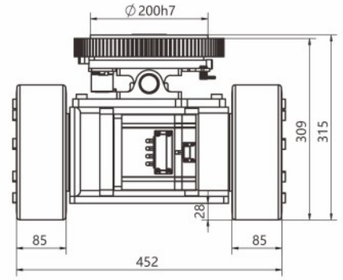
双轮摆动高度差 Height Difference of Dual-wheel Swing	mm	20

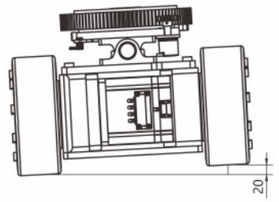
TT6T Serices

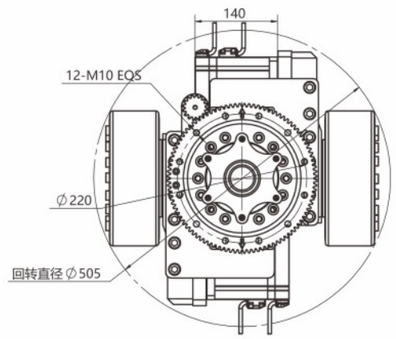
TT6t-230-1500











T

牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	1570		
	电机额定转速 Motor Rated Speed	rpm	3000		
	电机额定扭矩 Motor Rated Torque	Nm	5		
行走减速机 Travel Reducer	速比 Reduction Ratio	i	24	30	42
	最大额定输出扭矩 Max Rated Output Torque	Nm	420*2	420*2	420*2
	行走速度 Travel Speed	m/min	90.2	72.2	51.6
	牵引力 Traction Force	N	1880	2350	3300
	牵引重量(仅参考) Traction Weight	kg	3200	4000	5600

转向性能参数
Steering Performance Parameters

回转轴承齿数 Number of Teeth of Slewing Bearing	z	100
编码器齿轮齿数 Number of Teeth of Encoder Gear	z	16
速比 Gear Ratio	I	6.25
允许转向角度 (传感器) Permissible Steering Angle (Sensor)	°	±140

承重性能参数
Load Bearing Performance Parameters

聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	3000

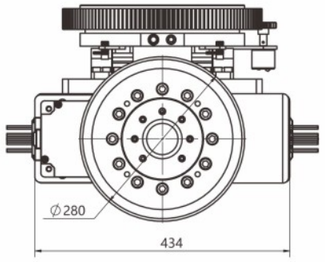
摆动浮动参数
Swing Floating Parameters

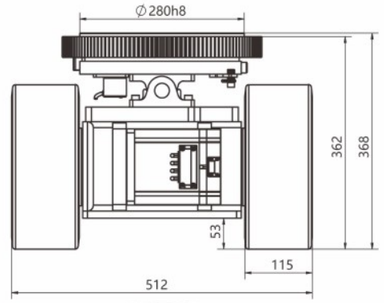
双轮摆动高度差 Height Difference of Dual-wheel Swing	mm	20

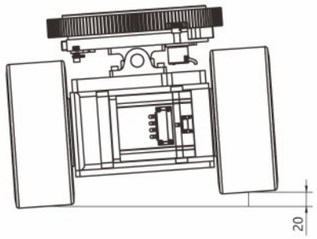
TT6T Serices

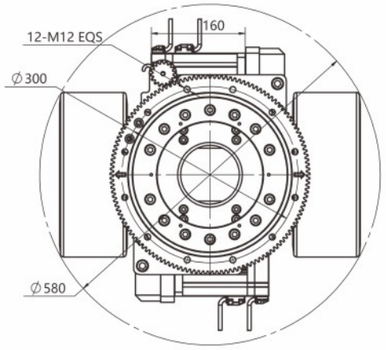
TT6t-280-2500











T

牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	2500		
	电机额定转速 Motor Rated Speed	rpm	3000		
	电机额定扭矩 Motor Rated Torque	Nm	7.96		
行走减速机 Travel Reducer	速比 Reduction Ratio	i	24	30	42
	最大额定输出扭矩 Max Rated Output Torque	Nm	420*2	420*2	420*2
	行走速度 Travel Speed	m/min	110	88	62.8
	牵引力 Traction Force	N	2460	3070	4300
	牵引重量(仅参考) Traction Weight	kg	4175	5220	7300

转向性能参数
Steering Performance Parameters

回转轴承齿数 Number of Teeth of Slewing Bearing	z	100
编码器齿轮齿数 Number of Teeth of Encoder Gear	z	16
速比 Gear Ratio	I	6.25
允许转向角度 (传感器) Permissible Steering Angle (Sensor)	°	±140

承重性能参数
Load Bearing Performance Parameters

聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	6000

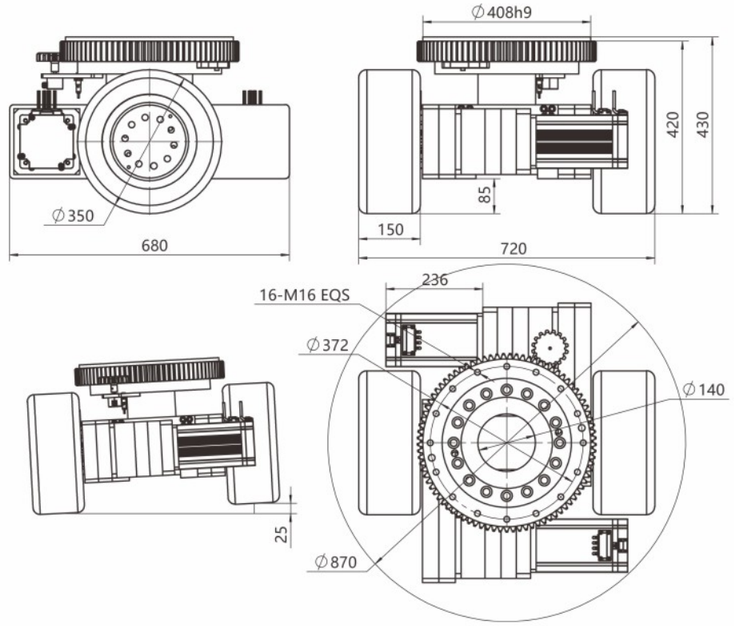
摆动浮动参数
Swing Floating Parameters

双轮摆动高度差 Height Difference of Dual-wheel Swing	mm	20

TT10T Serices

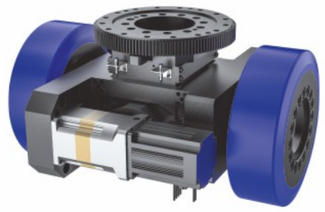
TT10t-350-3000

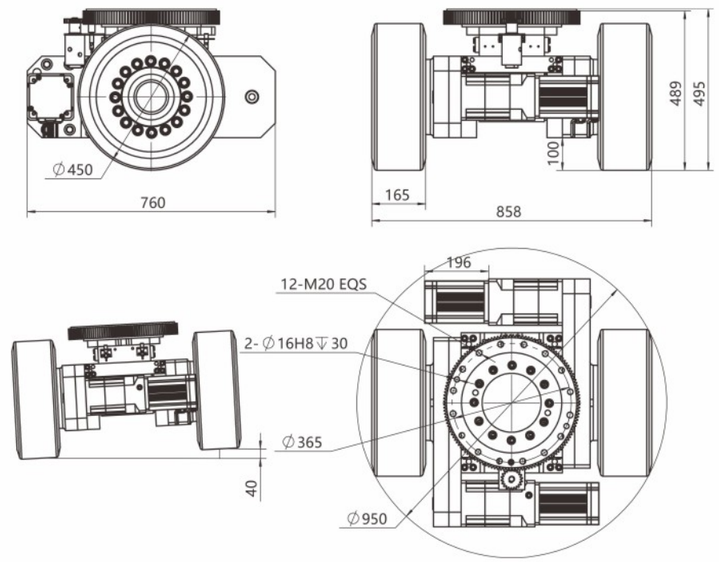




TT15T Serices

TT15t-450-3000





T

牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	3000		
	电机额定转速 Motor Rated Speed	rpm	2000		
	电机额定扭矩 Motor Rated Torque	Nm	14.33		
行走减速机 Travel Reducer	速比 Reduction Ratio	i	37.5	48	60
	最大额定输出扭矩 Max Rated Output Torque	Nm	690*2	1020*2	690*2
	行走速度 Travel Speed	m/min	58.6	45.8	36.6
	牵引力 Traction Force	N	5500	7000	7000
	牵引重量(仅参考) Traction Weight	kg	9400	12000	12000

转向性能参数
Steering Performance Parameters

回转轴承齿数 Number of Teeth of Slewing Bearing	z	85
编码器齿轮齿数 Number of Teeth of Encoder Gear	z	20
速比 Gear Ratio	I	4.25
允许转向角度 (传感器) Permissible Steering Angle (Sensor)	°	±140

承重性能参数
Load Bearing Performance Parameters

聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	10000

摆动浮动参数
Swing Floating Parameters

双轮摆动高度差 Height Difference of Dual-wheel Swing	mm	25

T

牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	3000		
	电机额定转速 Motor Rated Speed	rpm	3000		
	电机额定扭矩 Motor Rated Torque	Nm	9.55		
行走减速机 Travel Reducer	速比 Reduction Ratio	i	112	140	175
	最大额定输出扭矩 Max Rated Output Torque	Nm	1575*2	1575*2	1575*2
	行走速度 Travel Speed	m/min	37.8	30.2	24.2
	牵引力 Traction Force	N	8500	10700	12600
	牵引重量(仅参考) Traction Weight	kg	14500	18000	21000

转向性能参数
Steering Performance Parameters

回转轴承齿数 Number of Teeth of Slewing Bearing	z	136
编码器齿轮齿数 Number of Teeth of Encoder Gear	z	20
速比 Gear Ratio	I	6.8
允许转向角度 (传感器) Permissible Steering Angle (Sensor)	°	±157

承重性能参数
Load Bearing Performance Parameters

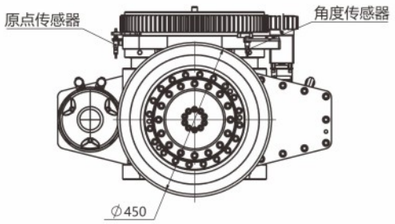
聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	15000

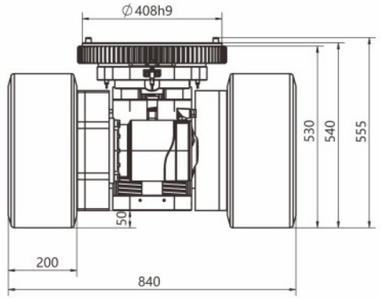
摆动浮动参数
Swing Floating Parameters

双轮摆动高度差 Height Difference of Dual-wheel Swing	mm	40

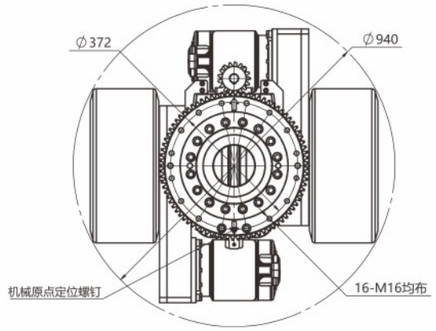
TT15T Serices

TT15t-450-3000-JZ









牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	3000
	电机额定转速 Motor Rated Speed	rpm	3000
	电机额定扭矩 Motor Rated Torque	Nm	9.55
行走减速机 Travel Reducer	速比 Reduction Ratio	i	179.9
	最大额定输出扭矩 Max Rated Output Torque	Nm	2400
	行走速度 Travel Speed	m/min	23.5
	牵引力 Traction Force	N	9800
	牵引重量(仅参考) Traction Weight	kg	16000

转向性能参数
Steering Performance Parameters

回转轴承齿数 Number of Teeth of Slewing Bearing	z	85
编码器齿轮齿数 Number of Teeth of Encoder Gear	z	12
速比 Gear Ratio	I	7.0833
允许转向角度 (传感器) Permissible Steering Angle (Sensor)	°	±120

承重性能参数
Load Bearing Performance Parameters

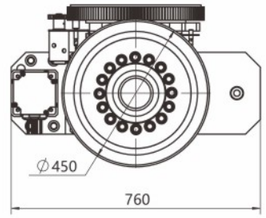
聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	15000

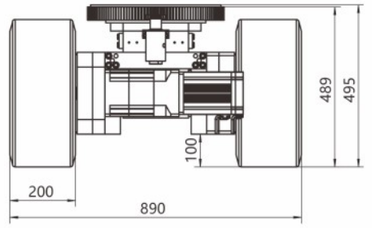
摆动浮动参数
Swing Floating Parameters

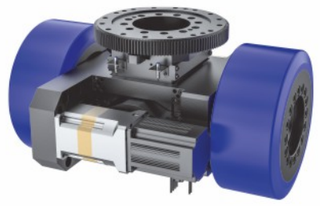
双轮摆动高度差 Height Difference of Dual-wheel Swing	mm	30
工作状态弹簧行程 Spring Stroke in Working Condition	mm	20
工作状态车轮行程 Wheel Stroke in Working Condition	mm	20
电机长度 Motor Length	mm	196

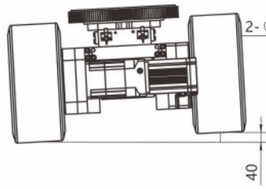
TT20T Serices

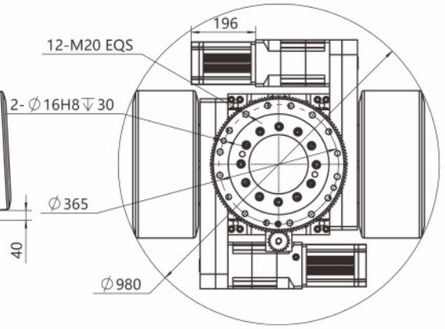
TT20t-450-3000











牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	3000	
	电机额定转速 Motor Rated Speed	rpm	3000	
	电机额定扭矩 Motor Rated Torque	Nm	9.55	
行走减速机 Travel Reducer	速比 Reduction Ratio	i	140	175
	最大额定输出扭矩 Max Rated Output Torque	Nm	1575*2	1575*2
	行走速度 Travel Speed	m/min	30.2	24.2
	牵引力 Traction Force	N	10700	12600
	牵引重量(仅参考) Traction Weight	kg	18000	21000

转向性能参数
Steering Performance Parameters

回转轴承齿数 Number of Teeth of Slewing Bearing	z	136
编码器齿轮齿数 Number of Teeth of Encoder Gear	z	20
速比 Gear Ratio	I	6.8
允许转向角度 (传感器) Permissible Steering Angle (Sensor)	°	±157

承重性能参数
Load Bearing Performance Parameters

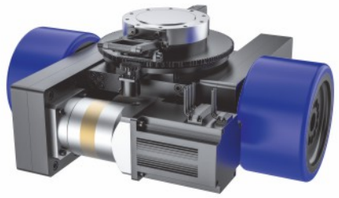
聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	20000

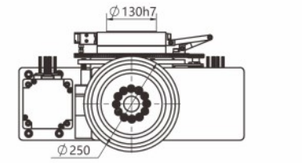
摆动浮动参数
Swing Floating Parameters

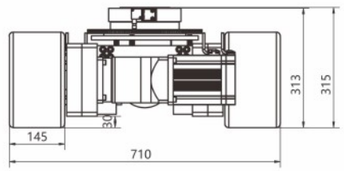
双轮摆动高度差 Height Difference of Dual-wheel Swing	mm	40
电机长度 Motor Length	mm	196

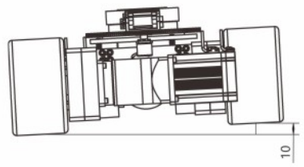
TTY6T Serices

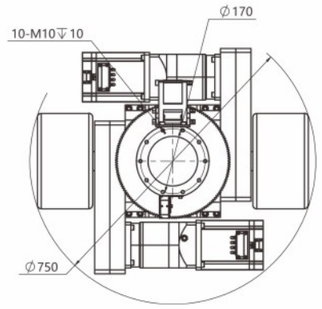
TTY6t-250-2500











牽引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	2500		
	电机额定转速 Motor Rated Speed	rpm	3000		
	电机额定扭矩 Motor Rated Torque	Nm	7.96		
行走减速机 Travel Reducer	速比 Reduction Ratio	i	63	72	90
	最大额定输出扭矩 Max Rated Output Torque	Nm	475	450	475
	行走速度 Travel Speed	m/min	52.3	45.8	36.6
	牵引力 Traction Force	N	5160	5400	5700
	牵引重量(仅参考) Traction Weight	kg	7500	7800	8200

转向性能参数
Steering Performance Parameters

回转轴承齿数 Number of Teeth of Slewing Bearing	z	148
编码器齿轮齿数 Number of Teeth of Encoder Gear	z	20
速比 Gear Ratio	I	7.4
允许转向角度 (传感器) Permissible Steering Angle (Sensor)	°	±130

承重性能参数
Load Bearing Performance Parameters

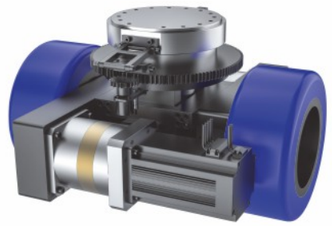
聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	6000

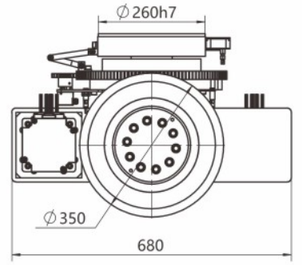
摆动浮动参数
Swing Floating Parameters

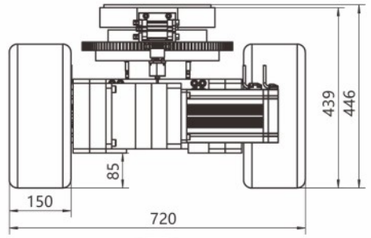
双轮摆动高度差 Height Difference of Dual-wheel Swing	mm	20
液压升降行程 Hydraulic Lifting Stroke	mm	80
电机长度 Motor Length	mm	176

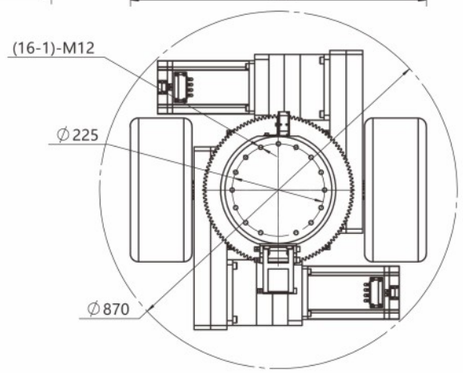
TTY10T Serices

TTY10t-350-3000









牽引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	3000		
	电机额定转速 Motor Rated Speed	rpm	2000		
	电机额定扭矩 Motor Rated Torque	Nm	14.3		
行走减速机 Travel Reducer	速比 Reduction Ratio	i	37.5	48	60
	最大额定输出扭矩 Max Rated Output Torque	Nm	1380	2040	1380
	行走速度 Travel Speed	m/min	58.6	45.8	36.6
	牵引力 Traction Force	N	5500	7000	7000
	牵引重量(仅参考) Traction Weight	kg	9300	12000	12000

转向性能参数
Steering Performance Parameters

回转轴承齿数 Number of Teeth of Slewing Bearing	z	120
编码器齿轮齿数 Number of Teeth of Encoder Gear	z	20
速比 Gear Ratio	I	6
允许转向角度 (传感器) Permissible Steering Angle (Sensor)	°	±130

承重性能参数
Load Bearing Performance Parameters

聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	10000

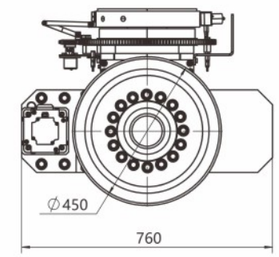
摆动浮动参数
Swing Floating Parameters

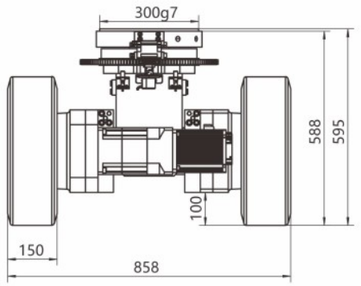
双轮摆动高度差 Height Difference of Dual-wheel Swing	mm	30
液压升降行程 Hydraulic Lifting Stroke	mm	100
电机长度 Motor Length	mm	236

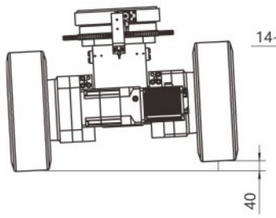
TTY15T Serices

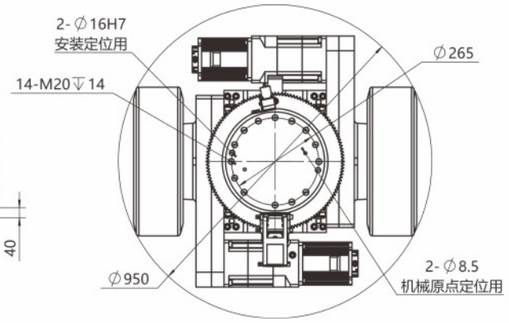
TTY15t-350-3000











牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	3000	
	电机额定转速 Motor Rated Speed	rpm	3000	
	电机额定扭矩 Motor Rated Torque	Nm	9.55	
行走减速机 Travel Reducer	速比 Reduction Ratio	i	112	140
	最大额定输出扭矩 Max Rated Output Torque	Nm	2100	2400
	行走速度 Travel Speed	m/min	37.8	30.2
	牵引力 Traction Force	N	9300	10500
	牵引重量(仅参考) Traction Weight	kg	15000	20000

转向性能参数
Steering Performance Parameters

回转轴承齿数 Number of Teeth of Slewing Bearing	z	136
编码器齿轮齿数 Number of Teeth of Encoder Gear	z	20
速比 Gear Ratio	I	6.8
允许转向角度 (传感器) Permissible Steering Angle (Sensor)	°	±130

承重性能参数
Load Bearing Performance Parameters

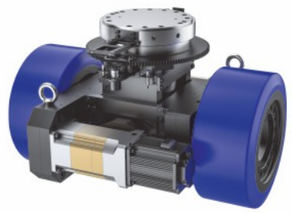
聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	15000

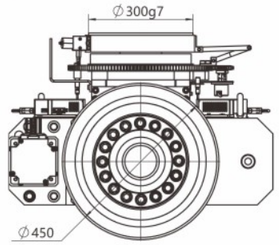
摆动浮动参数
Swing Floating Parameters

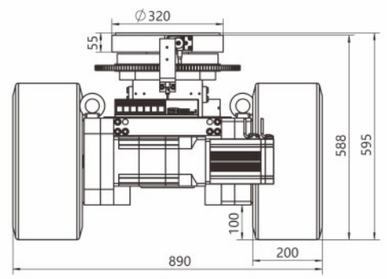
双轮摆动高度差 Height Difference of Dual-wheel Swing	mm	40
液压升降行程 Hydraulic Lifting Stroke	mm	150
电机长度 Motor Length	mm	180

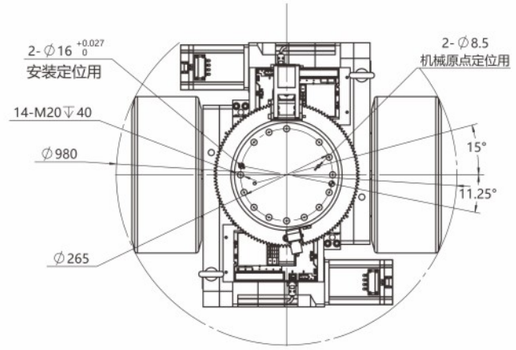
TTY20T Serices

TTY20t-450-3000









牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	3000		
	电机额定转速 Motor Rated Speed	rpm	3000		
	电机额定扭矩 Motor Rated Torque	Nm	9.55		
行走减速机 Travel Reducer	速比 Reduction Ratio	i	112	140	175
	最大额定输出扭矩 Max Rated Output Torque	Nm	3000	3000	3000
	行走速度 Travel Speed	m/min	37.8	30.2	24.2
	牵引力 Traction Force	N	8500	10500	24000
	牵引重量(仅参考) Traction Weight	kg	14500	20000	22000

转向性能参数
Steering Performance Parameters

回转轴承齿数 Number of Teeth of Slewing Bearing	z	136
编码器齿轮齿数 Number of Teeth of Encoder Gear	z	20
速比 Gear Ratio	I	6.8
允许转向角度 (传感器) Permissible Steering Angle (Sensor)	°	±157

承重性能参数
Load Bearing Performance Parameters

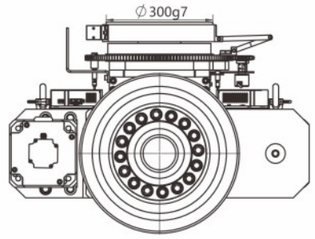
聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	20000

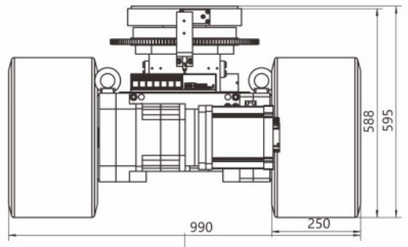
摆动浮动参数
Swing Floating Parameters

双轮摆动高度差 Height Difference of Dual-wheel Swing	mm	40
液压升降行程 Hydraulic Lifting Stroke	mm	210
电机长度 Motor Length	mm	196

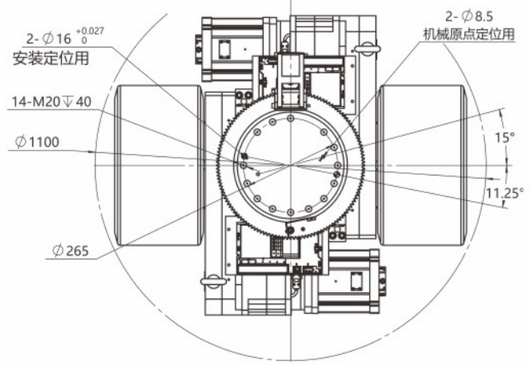
TTY25T Serices

TTY25t-450-4000









牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	6500
	电机额定转速 Motor Rated Speed	rpm	3000
	电机额定扭矩 Motor Rated Torque	Nm	20.7
行走减速机 Travel Reducer	速比 Reduction Ratio	i	140
	最大额定输出扭矩 Max Rated Output Torque	Nm	3500
	行走速度 Travel Speed	m/min	30.3
	牵引力 Traction Force	N	14000
	牵引重量(仅参考) Traction Weight	kg	30000

转向性能参数
Steering Performance Parameters

回转轴承齿数 Number of Teeth of Slewing Bearing	z	136
编码器齿轮齿数 Number of Teeth of Encoder Gear	z	20
速比 Gear Ratio	I	6.8
允许转向角度 (传感器) Permissible Steering Angle (Sensor)	°	±153

承重性能参数
Load Bearing Performance Parameters

聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	25000

摆动浮动参数
Swing Floating Parameters

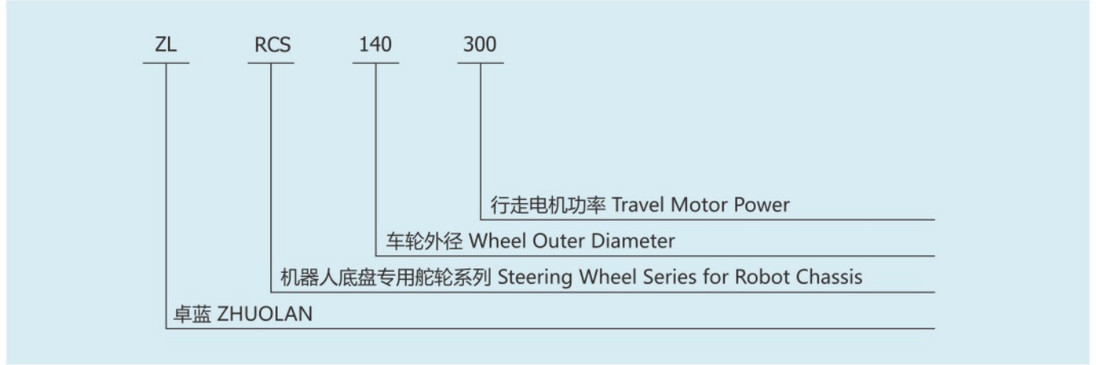
双轮摆动高度差 Height Difference of Dual-wheel Swing	mm	40
液压升降行程 Hydraulic Lifting Stroke	mm	210
电机长度 Motor Length	mm	207.5

- RCS140
- RCS170
- RCS200



RCS
Series

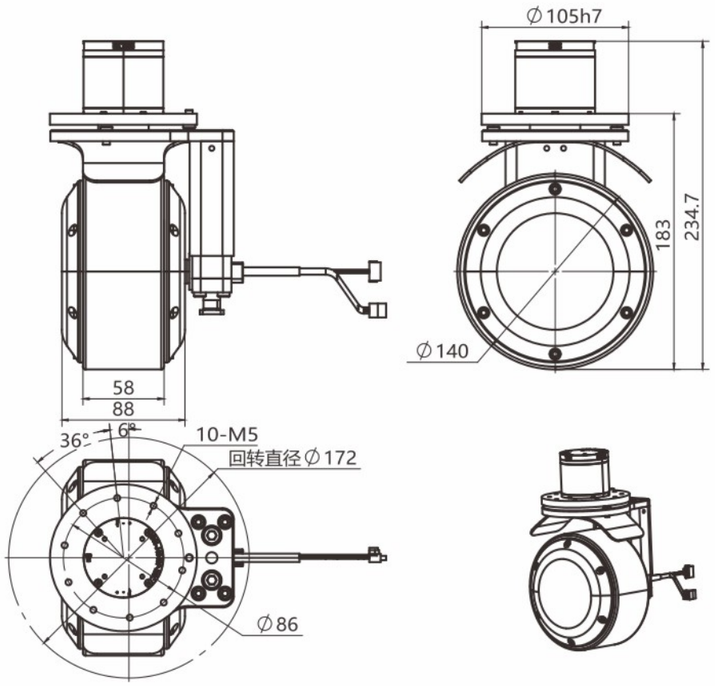
RCS系列型号说明
RCS series model description



RCS140 Serices

RCS-140-300





转向参数
Steering Parameters

额定输出转速 Rated Output Speed	rpm	36
空载最大转速 Max No-load Speed	rpm	112
额定电流 Rated Current	W	4.11
额定电压 Rated Voltage	DC	48
额定转矩 Rated Torque	Nm	14
峰值转矩 Peak Torque	Nm	40
编码器类型 Encoder Type		磁编 Magnetic Encoder
速比 Reduction Ratio	I	1:40

驱动参数
Drive Parameters

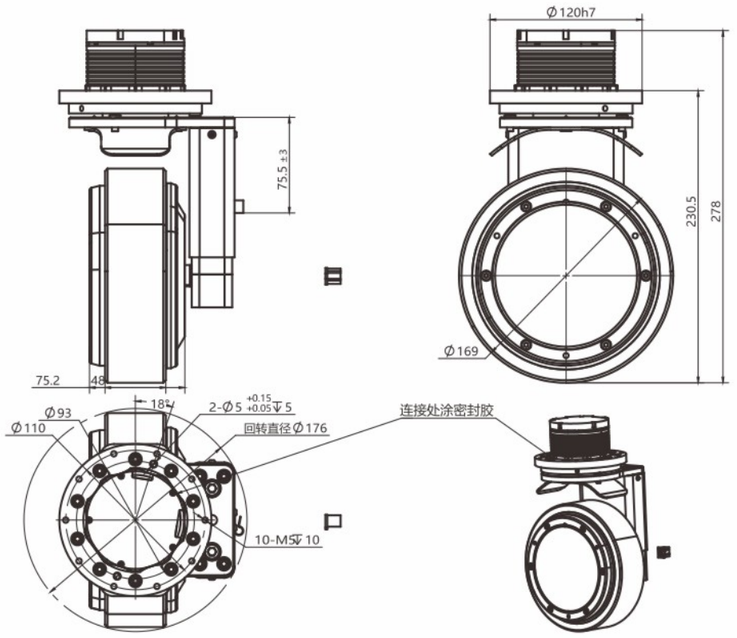
轮胎材质 Tire Material	-	聚氨酯PU Polyurethane (PU)
包胶硬度 Coating Hardness	A	80±5%
极对数 Number of Pole Pairs	对	15
额定电压 Rated Voltage	DC	48
额定扭矩 Rated Torque	Nm	10
峰值扭矩 Peak Torque	Nm	30
额定电流 Rated Current	A	7
峰值电流 Peak Current	A	21
额定转速 Rated Speed	rpm	260
最大转速 Max Speed	rpm	360
最大负载 Max Load	KG	80
编码器 Encoder		4096线 CPR
防护等级 Protection Class	IP	54
使用温度 Operating Temperature	℃	-20~+40

机械限位 Mechanical Limit	±100°
单个弹簧压力 Single Spring Force	10kg
车轮上跳行程 Wheel Up Travel	10mm
车轮下跳行程 Wheel Down Travel	10mm

RCS170 Serices

RCS-170-300





转向参数
Steering Parameters

额定输出转速 Rated Output Speed	rpm	150
空载最大转速 Max No-load Speed	rpm	250
额定功率 Rated Power	W	377
峰值功率 Peak Power	W	1190
额定转矩 Rated Torque	Nm	22.8
峰值转矩 Peak Torque	Nm	91.2
最大轴向静力 Max Static Axial Force	KN	7.19
最大轴向动态力 Max Dynamic Axial Force	KN	5.1
最大倾覆力矩 Max Overturning Moment	Km	145
速比 Reduction Ratio	I	1:40

驱动参数
Drive Parameters

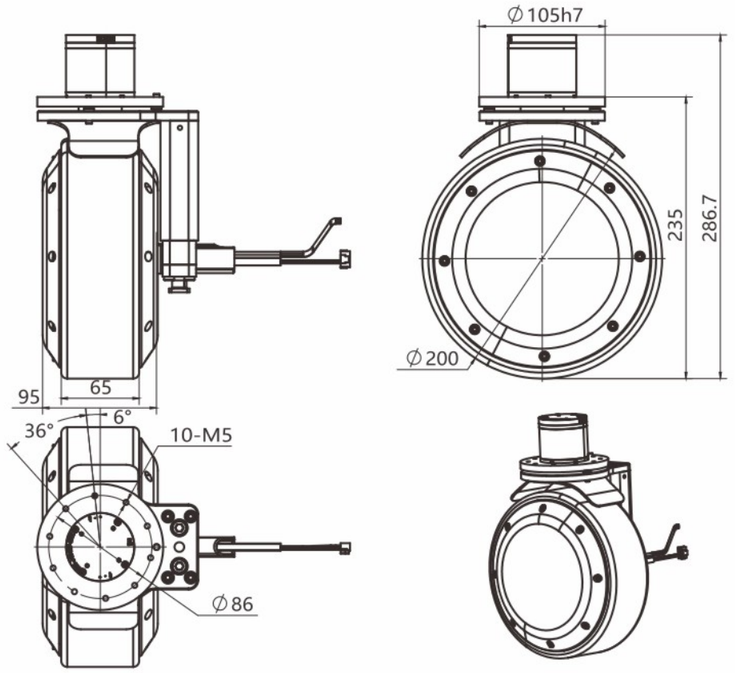
轮胎材质 Tire Material	-	聚氨酯PU Polyurethane (PU)
包胶硬度 Coating Hardness	A	70±5%
极对数 Number of Pole Pairs	对	
额定电压 Rated Voltage	DC	24
额定扭矩 Rated Torque	Nm	6
峰值扭矩 Peak Torque	Nm	18
额定电流 Rated Current	A	6
峰值电流 Peak Current	A	18
额定转速 Rated Speed	rpm	160
最大转速 Max Speed	rpm	205
最大负载 Max Load	KG	100
编码器 Encoder		4096线 CPR
防护等级 Protection Class	IP	65
使用温度 Operating Temperature	℃	-20~+40

机械限位 Mechanical Limit	±100°
单个弹簧压力 Single Spring Force	10kg
车轮上跳行程 Wheel Up Travel	20mm
车轮下跳行程 Wheel Down Travel	10mm

RCS200 Serices

RCS-200-300





转向参数
Steering Parameters

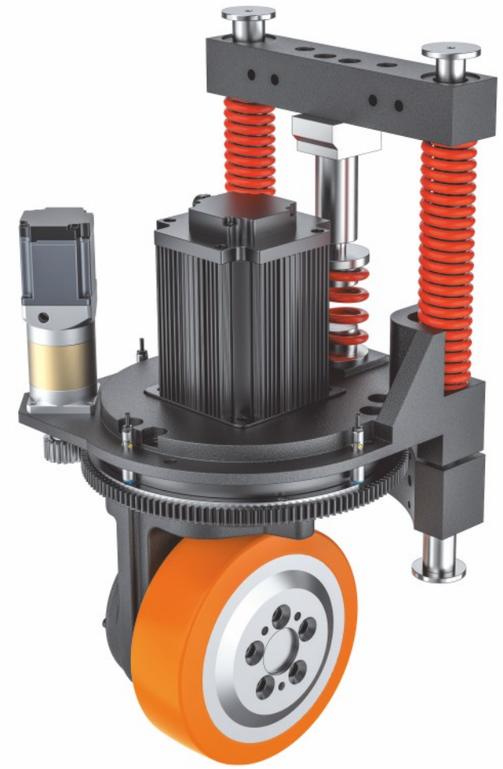
额定输出转速 Rated Output Speed	rpm	36
空载最大转速 Max No-load Speed	rpm	112
额定电流 Rated Current	W	4.11
额定电压 Rated Voltage	DC	48
额定转矩 Rated Torque	Nm	14
峰值转矩 Peak Torque	Nm	40
编码器类型 Encoder Type		磁编 Magnetic Encoder
速比 Reduction Ratio	I	1:40

驱动参数
Drive Parameters

轮胎材质 Tire Material	-	聚氨酯PU Polyurethane (PU)
包胶硬度 Coating Hardness	A	70±5%
极对数 Number of Pole Pairs	对	20
额定电压 Rated Voltage	DC	48
额定扭矩 Rated Torque	Nm	20
峰值扭矩 Peak Torque	Nm	60
额定电流 Rated Current	A	8.5
峰值电流 Peak Current	A	25
额定转速 Rated Speed	rpm	150
最大转速 Max Speed	rpm	180
最大负载 Max Load	KG	300
编码器 Encoder		绝对值 Absolute
防护等级 Protection Class	IP	65
使用温度 Operating Temperature	℃	-20~+40

机械限位 Mechanical Limit	±100°
单个弹簧压力 Single Spring Force	10kg
车轮上跳行程 Wheel Up Travel	10mm
车轮下跳行程 Wheel Down Travel	10mm

FLS230-JZ



FLS
Series

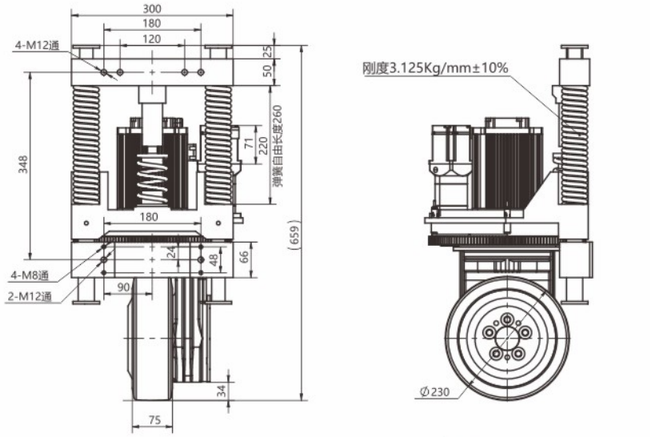
FLS系列型号说明
FLS series model description

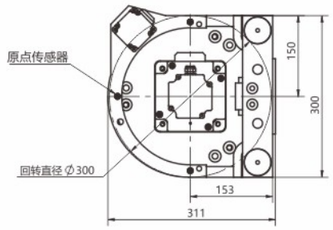


FLS230-JZ Serices

FLS-230-2500-400-JZ







牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	2500	
	电机额定转速 Motor Rated Speed	rpm	3000	
	电机额定扭矩 Motor Rated Torque	Nm	8	
行走减速机 Travel Reducer	速比 Reduction Ratio	i	22	26.7
	最大额定输出扭矩 Max Rated Output Torque	Nm	345	345
	行走速度 Travel Speed	m/min	98.4	81.1
	牵引力 Traction Force	N	1370	1670
	牵引重量(仅参考) Traction Weight	kg	2300	2800

转向性能参数
Steering Performance Parameters

转向电机 Steering Motor	电机功率 Motor Power	W	400
	电机额定转速 Motor Rated Speed	rpm	3000
	电机额定扭矩 Motor Rated Torque	Nm	1.27
转向参数 Steering Parameters	减速机速比 Reducer Ratio	i	25
	回转轴承齿数 Slewing Bearing Teeth Number	z	144
	转向齿轮齿数 Steering Gear Teeth Number	z	18
	总转向速比 Total Steering Ratio	I	200
	允许转向角度(传感器) Allowable Steering Angle (Sensor)	°	180

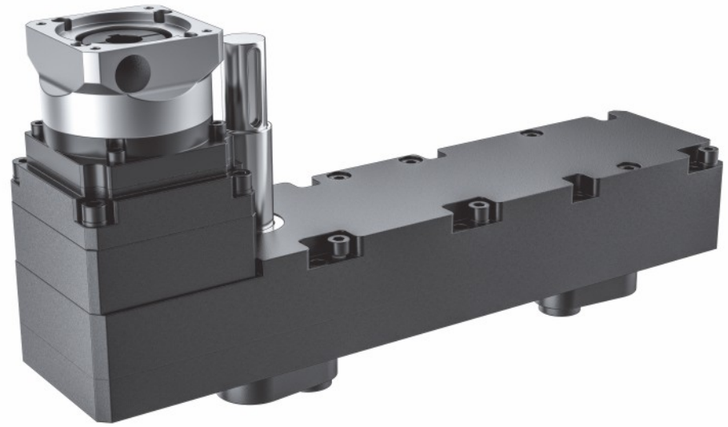
承重性能参数
Load Bearing Performance Parameters

聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	1300

摆动浮动参数
Swing Floating Parameters

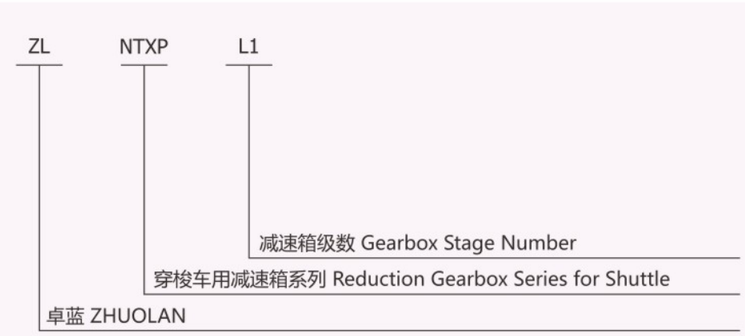
工作状态弹簧行程 Spring Stroke under Working Condition	mm	±20

- NTXP-L1
- NTXP-L4



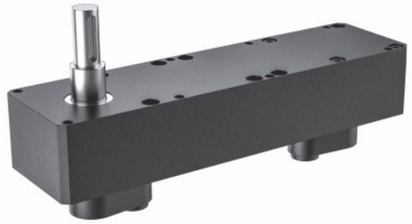
NTXP
Series

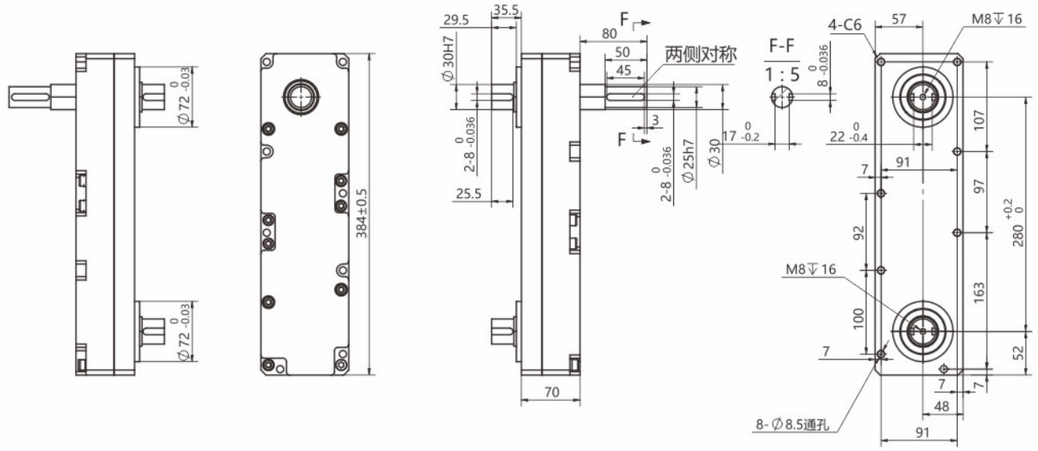
NTXP系列型号说明
NTXP series model description



NTXP-L1 Serices

NTXP-L1



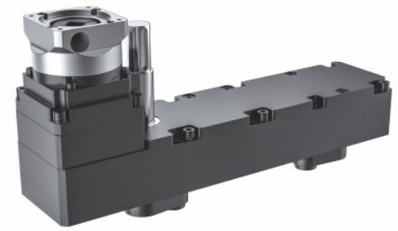


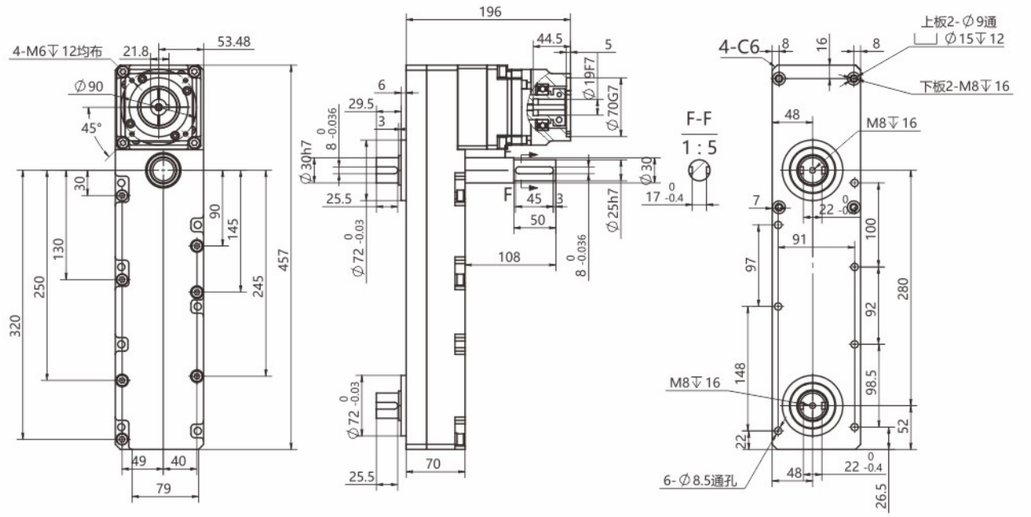
精密行星减速机技术参数
Technical Parameters of Precision Planetary Reducer

减速比 Reduction Ratio	-	1;1
额定承载扭矩 Rated Load Torque	Nm	360
最大加速力矩 Max Acceleration Torque	Nm	432
急停扭矩 Emergency Stop Torque	Nm	540
齿轮箱回程间隙 Gearbox Backlash	arcmin	30
容许最大径向载荷 Allowable Max Radial Load	N	6000N (单出轴 Single Output Shaft)
容许最大轴向载荷 Allowable Max Axial Load	-	无 None
额定输入转速 Rated Input Speed	r/min	3000
最大输入转速 Max Input Speed	r/min	6000
噪音 N Noise	dB	≤68
空载力矩 No-load Torque	N·m	≤0.3
润滑 Lubrication	-	合成润滑脂 Synthetic Grease
使用环境温度 Ambient Operating Temperature	℃	-45℃ ~ +90℃
使用寿命 Service Life	h	≥10000h
防护等级 Protection Class	-	IP54

NTXP-L4 Serices

NTXP-L4

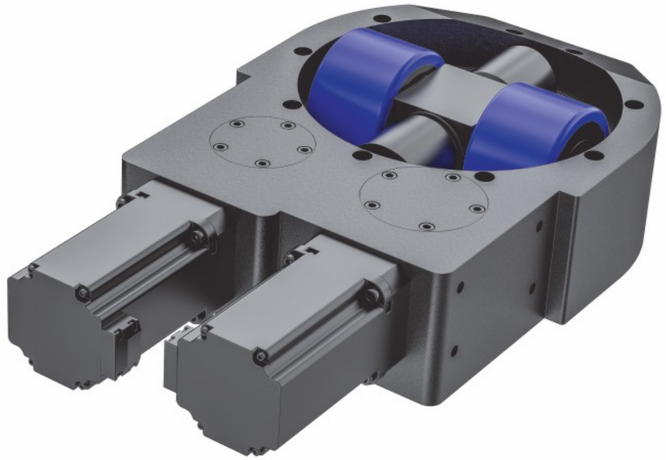




精密行星减速机技术参数
Technical Parameters of Precision Planetary Reducer

减速比 Reduction Ratio	-	234.78;1
额定承载扭矩 Rated Load Torque	Nm	720
最大加速力矩 Max Acceleration Torque	Nm	864
急停扭矩 Emergency Stop Torque	Nm	860
齿轮箱回程间隙 Gearbox Backlash	arcmin	40
容许最大径向载荷 Allowable Max Radial Load	N	6000N (单出轴 Single Output Shaft)
容许最大轴向载荷 Allowable Max Axial Load	-	无 None
额定输入转速 Rated Input Speed	r/min	3000
最大输入转速 Max Input Speed	r/min	600
噪音 N Noise	dB	≤68
空载力矩 No-load Torque	N·m	≤0.3
润滑 Lubrication	-	合成润滑脂 Synthetic Grease
使用环境温度 Ambient Operating Temperature	℃	-45℃ ~ +90℃
使用寿命 Service Life	h	≥10000h
防护等级 Protection Class	-	IP54

- QXC75
- QXC100



QXC

Series

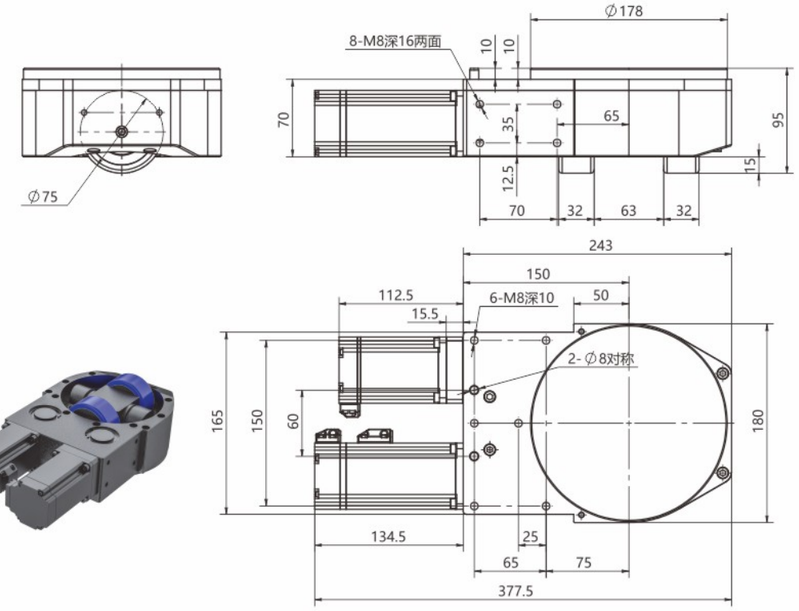
QXC系列型号说明

QXC series model description



QXC75 Serices

QXC-75-400-400



牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	400
	电机额定转速 Motor Rated Speed	rpm	3000
	电机额定扭矩 Motor Rated Torque	Nm	1.27
行走减速机 Travel Reducer	速比 Reduction Ratio	i	7.5
	最大额定输出扭矩 Max Rated Output Torque	Nm	20
	行走速度 Travel Speed	m/min	94.2
	牵引力 Traction Force	N	228
	牵引重量(仅参考) Traction Weight	kg	400

转向性能参数
Steering Performance Parameters

转向电机 Steering Motor	电机功率 Motor Power	W	400
	电机额定转速 Motor Rated Speed	rpm	3000
	电机额定扭矩 Motor Rated Torque	Nm	1.27
转向参数 Steering Parameters	减速机速比 Reducer Ratio	i	10
	回转轴承齿数 Slewing Bearing Teeth Number	z	165
	转向齿轮齿数 Steering Gear Teeth Number	z	55
	总转向速比 Total Steering Ratio	I	75
	允许转向角度(传感器) Allowable Steering Angle (Sensor)	°	360

承重性能参数
Load Bearing Performance Parameters

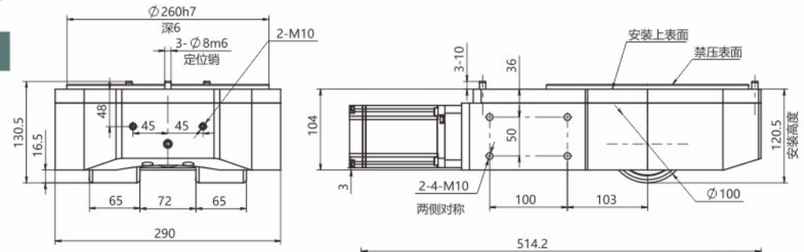
聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	400

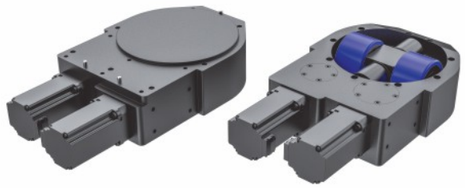
摆动浮动参数
Swing Floating Parameters

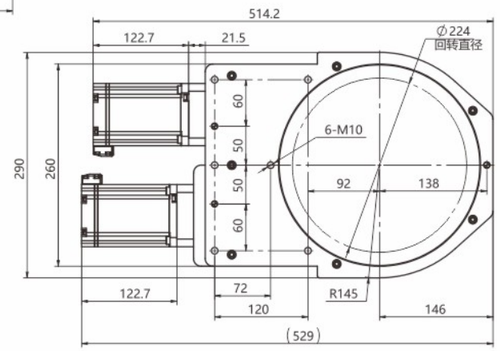
双轮摆动高度差 Dual-wheel Swing Height Difference	mm	4.5

QXC100 Serices

QXC-100-1200-1200







牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	1200		
	电机额定转速 Motor Rated Speed	rpm	3000		
	电机额定扭矩 Motor Rated Torque	Nm	3.82		
行走减速机 Travel Reducer	速比 Reduction Ratio	i	9.6	12.8	16
	最大额定输出扭矩 Max Rated Output Torque	Nm	46	46	46
	行走速度 Travel Speed	m/min	98	73.6	58.8
	牵引力 Traction Force	N	660	820	820
	牵引重量(仅参考) Traction Weight	kg	1120	1400	1400

转向性能参数
Steering Performance Parameters

转向电机 Steering Motor	电机功率 Motor Power	W	1200
	电机额定转速 Motor Rated Speed	rpm	3000
	电机额定扭矩 Motor Rated Torque	Nm	3.82
转向参数 Steering Parameters	减速机速比 Reducer Ratio	i	10
	回转轴承齿数 Slewing Bearing Teeth Number	z	129
	转向齿轮齿数 Steering Gear Teeth Number	z	33
	总转向速比 Total Steering Ratio	I	74.92
	允许转向角度(传感器) Allowable Steering Angle (Sensor)	°	360

承重性能参数
Load Bearing Performance Parameters

聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	800

摆动浮动参数
Swing Floating Parameters

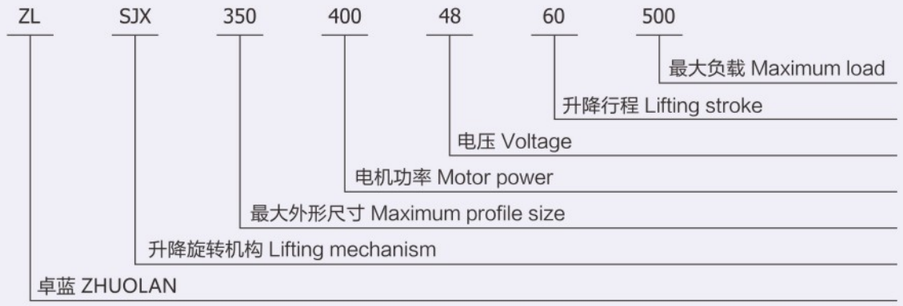
双轮摆动高度差 Dual-wheel Swing Height Difference	mm	8

- SJX 260
- SJX 350
- SJX 468
- SJX 520



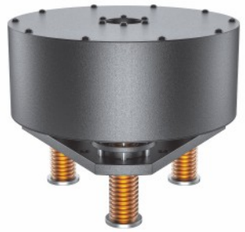
SJX
Series

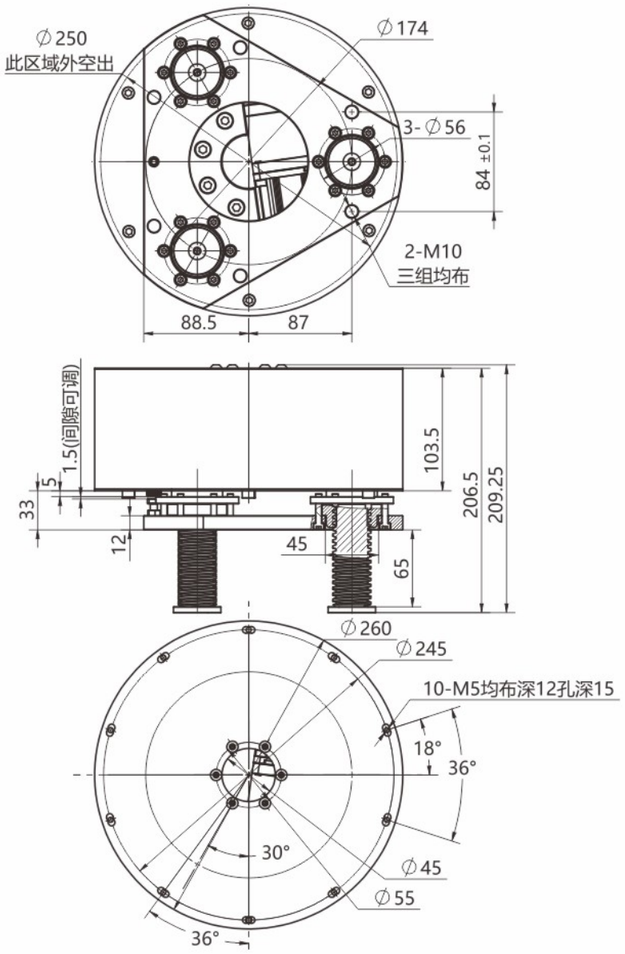
SJX系列型号说明
SJX series model description



SJX 260 Serices

SJX-260-400-48-60-500





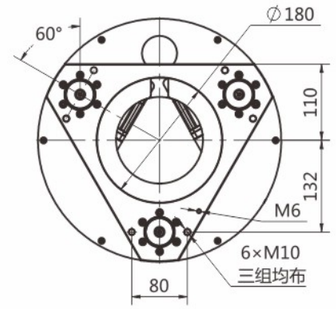
升降参数
Lift parameter

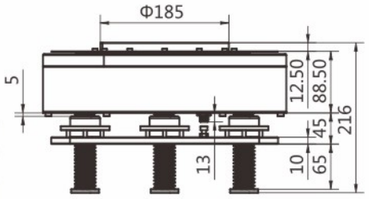
电机功率 Motor power	W	400	
电机额定转速 Rated motor speed	rpm	3000	
电机额定扭矩 Rated motor torque	Nm	1.27	
电机最大长度 Max. Motor length	mm	≤99	
升降负载 Lifting load	kg	500	
升降行程 Lifting stroke	mm	50	60
丝杆规格 Lead screw specification	mm	T32×5	
减速机速比 Reducer ratio	i	40	50
传动齿比 Transmission gear ratio	I	1	1
升降速度 Lifting speed	mm/s	6.25	5
升降时间（单程） Lifting time (single stroke)	s	8	12
限位信号 Limit signal		下极限位置，限位传感器 Lower Limit Position, Limit Sensor	

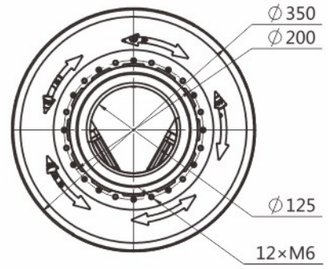
SJX 350 Serices

ZL-SJX-350-400-48-60-600









升降参数
Lift parameter

类型 Type	X	行星减速机 Planetary reducer
行程 Route	mm	60
丝杆规格 Screw rod specification	mm	T32×5
减速机速比 Speed ratio of reducer	i	40
传动齿比 Gear ratio	I	1
升降速度 Up and down speed	mm/s	6.25
升降时间 Up and down time	s	9.6
限位传感器 Limit Sensor	SICK	常开NPN-24V Regular opening NPN-24V

电机参数
Motor parameters

负载 Load	Kg	600
电机功率 Motor power	W	400
电机电压 Motor voltage	V	48
电机转速 Motor speed	Rpm	3000
电机电流 Motor current	A	11.95
额定扭矩 Rated Torque	N·m	1.27
防护等级 Protection level	IP	54

旋转参数
Rotation parameter

类型 Type	X	行星减速机 Planetary reducer
减速机速比 Speed ratio of reducer	i	40
传动齿比 Gear ratio	i	6.04
旋转位移 Rotation Displacement	90/转90/rpm	1.51
旋转90° Rotate 90°	s	1.21
旋转原点 Origin of rotation	SICK	常开NPN-24V Regular opening NPN-24V

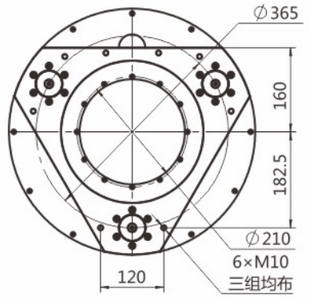
其它
Others

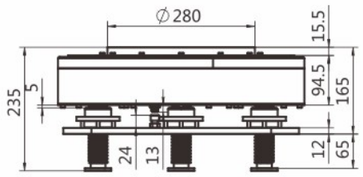
减速机润滑 Reducer lubrication	润滑脂 Grease	-20°～200°
自重 Self weight	Kg	约 26.5

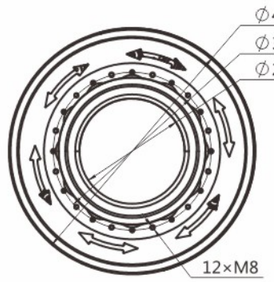
SJX 468 Serices

ZL-SJX-468-600-48-60-1200









升降参数
Lift parameter

类型 Type	X	行星减速机 Planetary reducer
行程 Route	mm	60
丝杆规格 Screw rod specification	mm	T36×6
减速机速比 Speed ratio of reducer	i	40
传动齿比 Gear ratio	I	1
升降速度 Up and down speed	mm/s	7.5
升降时间 Up and down time	s	6.67
限位传感器 Limit Sensor	SICK	常开NPN-24V Regular opening NPN-24V

电机参数
Motor parameters

负载 Load	Kg	1200
电机功率 Motor power	W	600
电机电压 Motor voltage	V	48
电机转速 Motor speed	Rpm	3000
电机电流 Motor current	A	16.5
额定扭矩 Rated Torque	N·m	1.91
防护等级 Protection level	IP	65

旋转参数
Rotation parameter

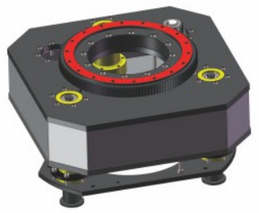
类型 Type	X	行星减速机 Planetary reducer
减速机速比 Speed ratio of reducer	i	40
传动齿比 Gear ratio	i	8.89
旋转位移 Rotation Displacement	90/转90/rpm	2.22
旋转90° Rotate 90°	s	1.78
旋转原点 Origin of rotation	SICK	常开NPN-24V Regular opening NPN-24V

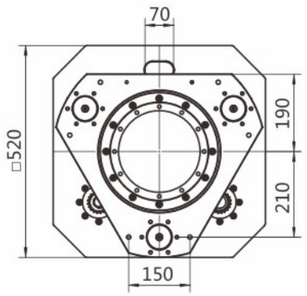
其它
Others

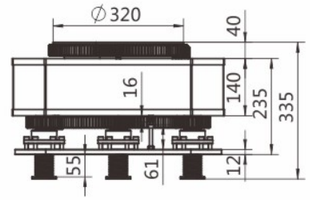
减速机润滑 Reducer lubrication	润滑脂 Grease	-20°~200°
自重 Self weight	Kg	约 50.8

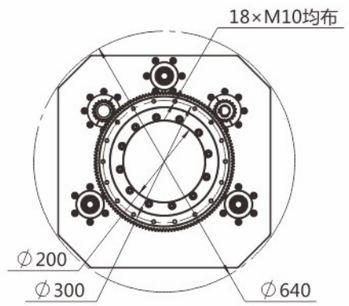
SJX 520 Serices

ZL-SJX-520-750-48-50-1750









升降参数
Lift parameter

类型 Type	X	行星减速机 Planetary reducer
行程 Route	mm	50
丝杆规格 Screw rod specification	mm	T45×6
减速机速比 Speed ratio of reducer	i	30
传动齿比 Gear ratio	I	1.65
升降速度 Up and down speed	mm/s	10
升降时间 Up and down time	s	5
限位传感器 Limit Sensor	SICK	常开NPN-24V Regular opening NPN-24V

电机参数
Motor parameters

负载 Load	Kg	1750	2250
电机功率 Motor power	W	750	1200
电机电压 Motor voltage	V	48	48
电机转速 Motor speed	Rpm	3000	3000
电机电流 Motor current	A	19.9	32
额定扭矩 Rated Torque	N·m	2.39	4
防护等级 Protection level	IP	65	65

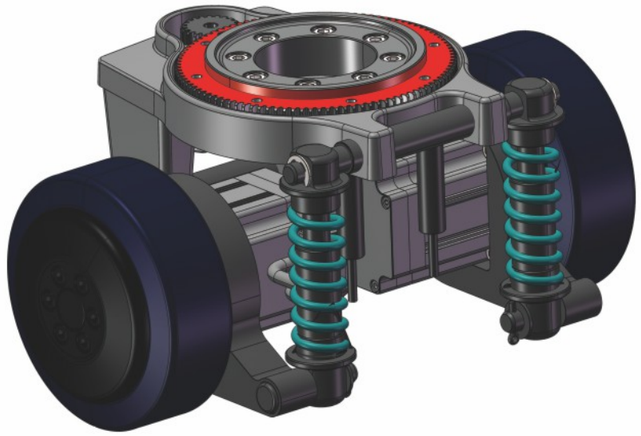
旋转参数
Rotation parameter

类型 Type	X	行星减速机 Planetary reducer
减速机速比 Speed ratio of reducer	i	30
传动齿比 Gear ratio	i	6.75
旋转位移 Rotation Displacement	90/转90/rpm	1.69
旋转90° Rotate 90°	s	1.01
旋转原点 Origin of rotation	SICK	常开NPN-24V Regular opening NPN-24V

其它
Others

减速机润滑 Reducer lubrication	润滑脂 Grease	-20°~200°
自重 Self weight	Kg	约 88.8

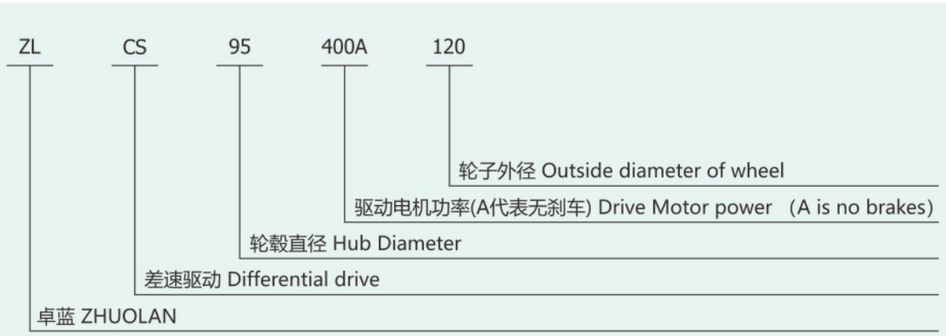
- CS 95
- CS 125



CS

Series

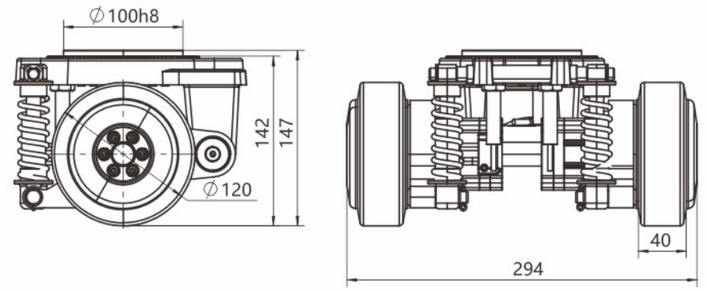
CS系列型号说明
CS series model description

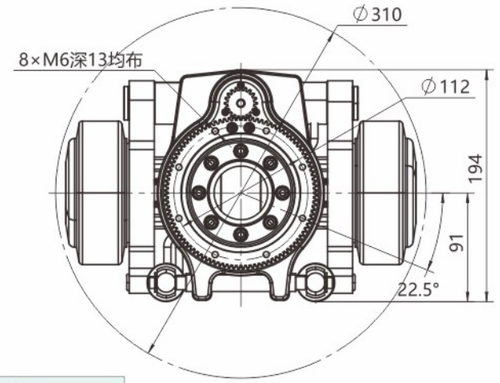


CS 95 Series

ZL-CS-95-120A-400

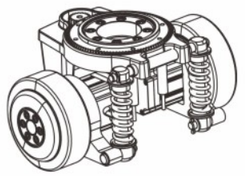






行走电机参数
Parameters of walking motor

电机类型 Motor type	DC	伺服电机 Servo motor			
电机额定功率 Rated power of motor	W	400			
电机额定电压 Rated voltage of motor	V	48			
电机额定转速 Rated speed of motor	rpm	3000			
电机电流 Motor current	A	11.95			
电机额定扭矩 Rated Torque of motor	N·m	1.27			
防护等级 Protection level	IP	54			
电机编码器类型 Motor encoder type		增量 Increment			
线长 Line length	m	1			
行走减速比 Walking reducer	16	20	28	35	50
行走速度 Walking speed	70.7	56.5	40.4	32.3	22.6
单轮额定扭矩 Rated Torque	30	30	30	33	33
牵引力 Traction	609.6	762	789	789	789
参考牵引重量 Reference Traction weight	913	1143	1500	1500	1500
聚氨酯承重 Polyurethane load-bearing	Kg	360			
聚氨酯硬度 Polyurethane hardness	A	90±5			
聚氨酯颜色 Polyurethane color		深蓝色 Dark Blue			



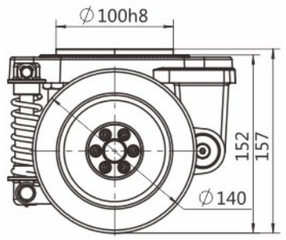
转向参数
Steering parameter

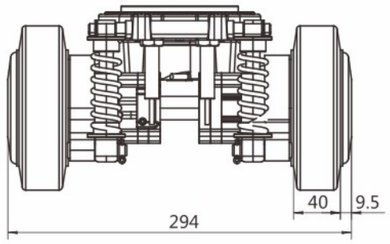
转向角度 Steering Angle	°	±140°
绝对值编码器 Absolute encoder	AHM36A-S3CK014×12	
原点传感器 Origin Sensor	IME12-02BNSZW2K	

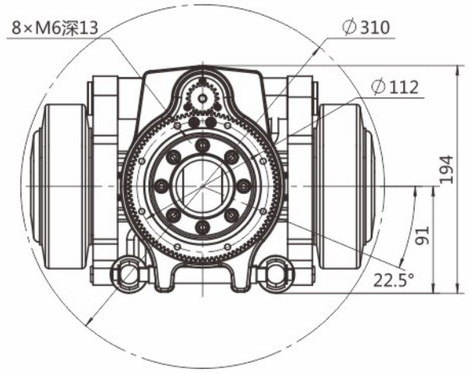
CS 95 Series

ZL-CS-95-140A-400



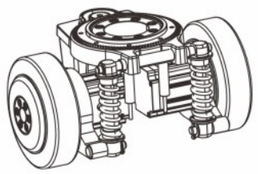






行走电机参数
Parameters of walking motor

电机类型 Motor type	DC	伺服电机 Servo motor			
电机额定功率 Rated power of motor	W	400			
电机额定电压 Rated voltage of motor	V	48			
电机额定转速 Rated speed of motor	rpm	3000			
电机电流 Motor current	A	11.95			
电机额定扭矩 Rated Torque of motor	N·m	1.27			
防护等级 Protection level	IP	54			
电机编码器类型 Motor encoder type		增量Increment			
线长 Line length	m	1			
行走减速比 Walking reducer	16	20	28	35	50
行走速度 Walking speed	82.4	65.9	47.1	37.7	26.4
单轮额定扭矩 Rated Torque	30	30	30	33	33
牵引力 Traction	655	789	789	789	789
参考牵引重量 Reference Traction weight	983	1500	1500	1500	1500
聚氨酯承重 Polyurethane load-bearing	Kg	900			
聚氨酯硬度 Polyurethane hardness	A	90±5			
聚氨酯颜色 Polyurethane color		深蓝色 Dark Blue			

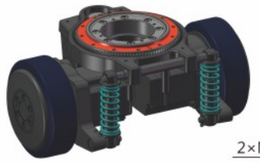


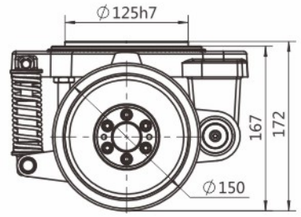
转向参数
Steering parameter

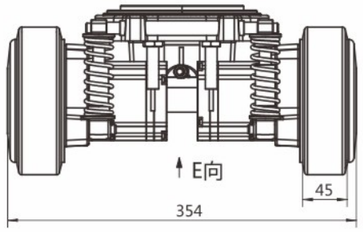
转向角度 Steering Angle	°	±140°
绝对值编码器 Absolute encoder	AHM36A-S3CK014×12	
原点传感器 Origin Sensor	IME12-02BNSZW2K	

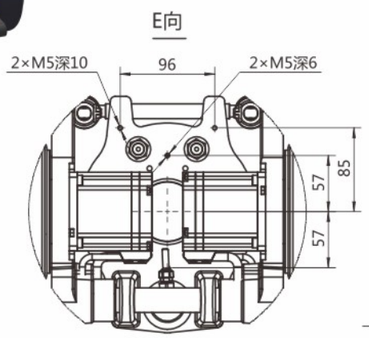
CS 125 Series

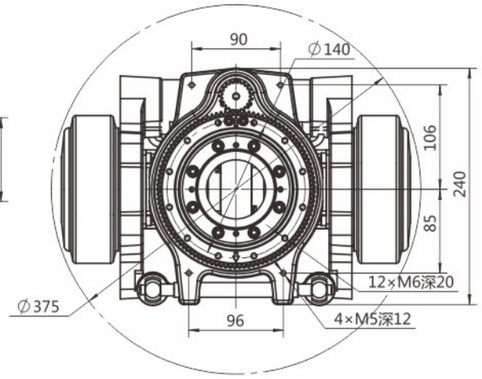
ZL-CS-125-150A-400





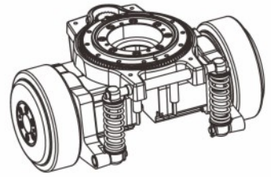






行走电机参数
Parameters of walking motor

电机类型 Motor type	DC	伺服电机 Servo motor			
电机额定功率 Rated power of motor	W	400			
电机额定电压 Rated voltage of motor	V	48			
电机额定转速 Rated speed of motor	rpm	3000			
电机电流 Motor current	A	11.95			
电机额定扭矩 Rated Torque of motor	N·m	1.27			
防护等级 Protection level	IP	54			
电机编码器类型 Motor encoder type		增量 Increment			
线长 Line length	m	1			
行走减速比 Walking reducer	16	20	28	35	50
行走速度 Walking speed	88.3	70.7	50.5	40.4	28.3
单轮额定扭矩 Rated Torque	96	96	96	105	105
牵引力 Traction	611	763	789	789	789
参考牵引重量 Reference Traction weight	917	1145	1500	1500	1500
聚氨酯承重 Polyurethane load-bearing	Kg	600			
聚氨酯硬度 Polyurethane hardness	A	90±5			
聚氨酯颜色 Polyurethane color		深蓝色 Dark Blue			



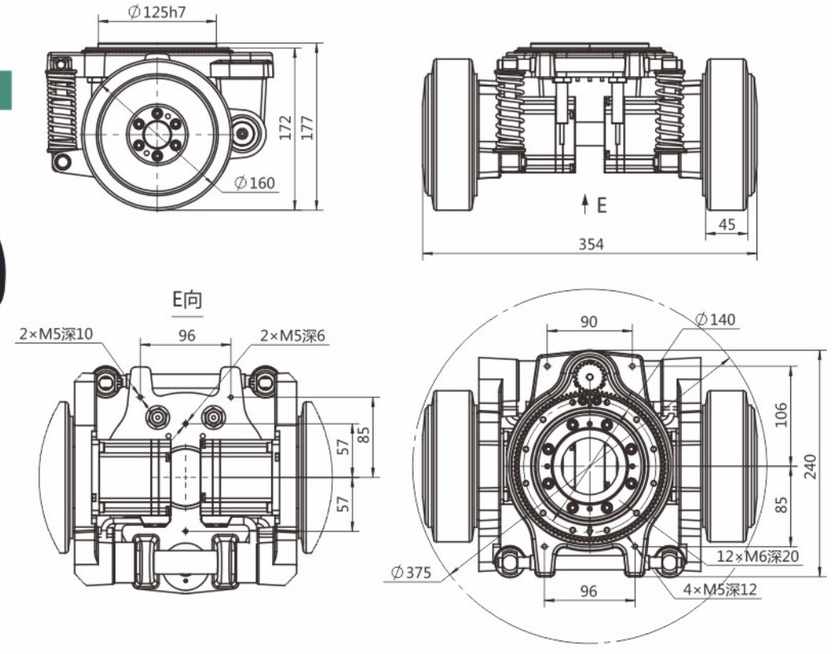
转向参数
Steering parameter

转向角度 Steering Angle	°	±140°
绝对值编码器 Absolute encoder	AHM36A-S3CK014×12	
原点传感器 Origin Sensor	IME12-02BNSZW2K	

CS 125 Series

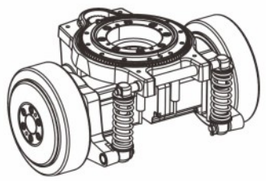
ZL-CS-125-160A-400





行走电机参数
Parameters of walking motor

电机类型 Motor type	DC	伺服电机 Servo motor			
电机额定功率 Rated power of motor	W	400			
电机额定电压 Rated voltage of motor	V	48			
电机额定转速 Rated speed of motor	rpm	3000			
电机电流 Motor current	A	11.95			
电机额定扭矩 Rated Torque of motor	N·m	1.27			
防护等级 Protection level	IP	54			
电机编码器类型 Motor encoder type		增量 Increment			
线长 Line length	m	1			
行走减速比 Walking reducer	16	20	28	35	50
行走速度 Walking speed	94.2	75.4	53.8	43.1	30.1
单轮额定扭矩 Rated Torque	96	96	96	105	105
牵引力 Traction	573	716	789	789	789
参考牵引重量 Reference Traction weight	860	1074	1500	1500	1500
聚氨酯承重 Polyurethane load-bearing	Kg	700			
聚氨酯硬度 Polyurethane hardness	A	90±5			
聚氨酯颜色 Polyurethane color		深蓝色 Dark Blue			

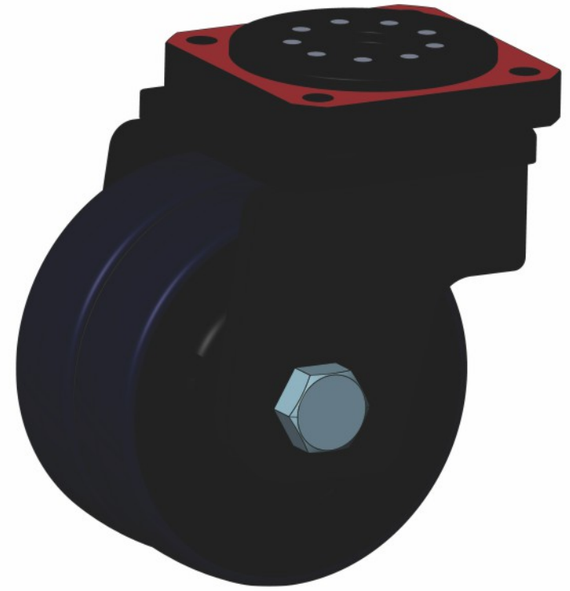


转向参数
Steering parameter

转向角度 Steering Angle	°	±140°
绝对值编码器 Absolute encoder	AHM36A-S3CK014×12	
原点传感器 Origin Sensor	IME12-02BNSZW2K	

CS

CZSS



CZSS
Series

CZSS系列型号说明
CZSS series model description

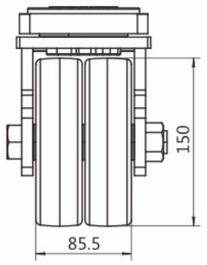
ZL CZSS 150 JC 196 86 1000

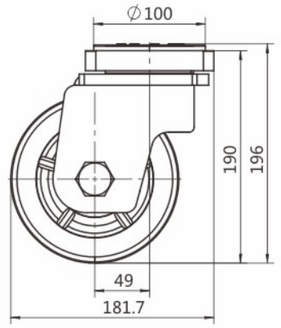
- 1000 最大负载 Maximum load
- 86 轮子宽度 Wheel width
- 196 安装高度 Installation Height
- JC 交叉滚子轴承 Cross roller bearing
- 150 轮子外径 Outside diameter of wheel
- CZSS 承重万向脚轮（SS代表双轮） Load bearing caster(SS means double wheel)
- ZL 卓蓝 ZHUOLAN

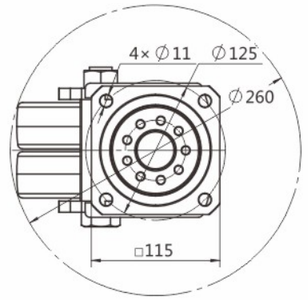
CZSS Series

ZL-CZSS-150-JC-196-86-1000



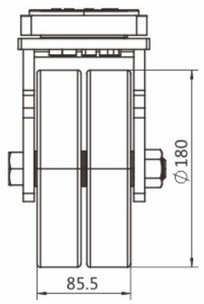


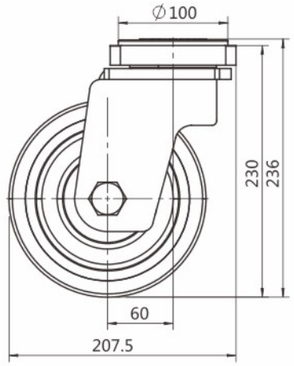


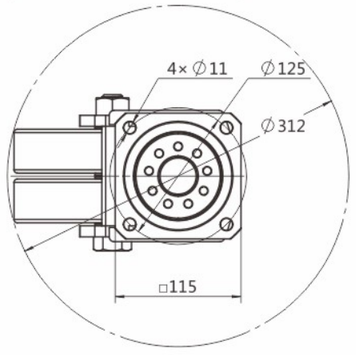


ZL-CZSS-180-JC-230-86-1500









LRS160



LRS
Series

LRS系列型号说明
LRS series model description

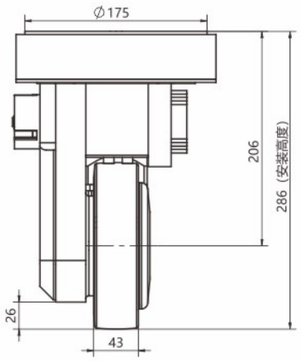
ZL LRS 160 400 200

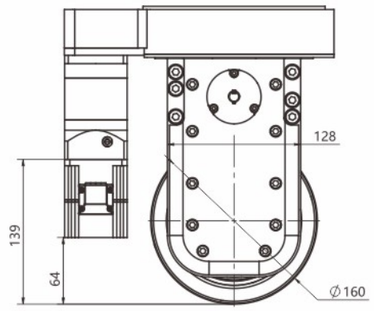
- 200 转向电机功率 Power of steering motor
- 400 驱动电机功率 Drive Motor Power
- 160 车轮外径 Wheel Outer Diameter
- LRS 特殊卧式单轮 Special Horizontal Single Wheel
- ZL 卓蓝 ZHUOLAN

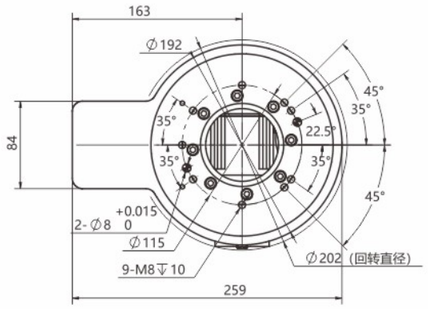
LRS160 Serices

LRS160-400-200









牵引性能参数
Traction Performance Parameters

行走电机 Travel Motor	电机功率 Motor Power	W	400			
	电机额定转速 Motor Rated Speed	rpm	3000			
	电机额定扭矩 Motor Rated Torque	Nm	1.27			
行走减速机 Travel Reducer	速比 Reduction Ratio	i	24	30	42	60
	最大额定输出扭矩 Max Rated Output Torque	Nm	96	105	105	105
	行走速度 Travel Speed	m/min	135.4	135.4	108.3	77.4
	牵引力 Traction Force	N	340	420	600	850
	牵引重量(仅参考) Traction Weight	kg	570	710	1020	1440
	制动扭矩（静扭矩） Braking Torque (Static Torque)	Nm	1.5			

转向性能参数
Steering Performance Parameters

转向电机 Steering Motor	电机功率 Motor Power	W	200	
	电机额定转速 Motor Rated Speed	rpm	3000	
	电机额定扭矩 Motor Rated Torque	Nm	0.64	
转向参数 Steering Parameters	减速机速比 Reducer Ratio	i	35	50
	回转轴承齿数 Slewing Bearing Teeth Number	z	105	
	转向齿轮齿数 Steering Gear Teeth Number	z	21	
	总转向速比 Total Steering Ratio	I	175	250
	允许转向角度(传感器) Allowable Steering Angle (Sensor)	°	±135°	

承重性能参数
Load Bearing Performance Parameters

聚氨酯轮承重 Polyurethane Wheel Load Capacity	Kg	350
电机长度 Motor Length	mm	小于等于125（回转直径 Swing Diameter 202）