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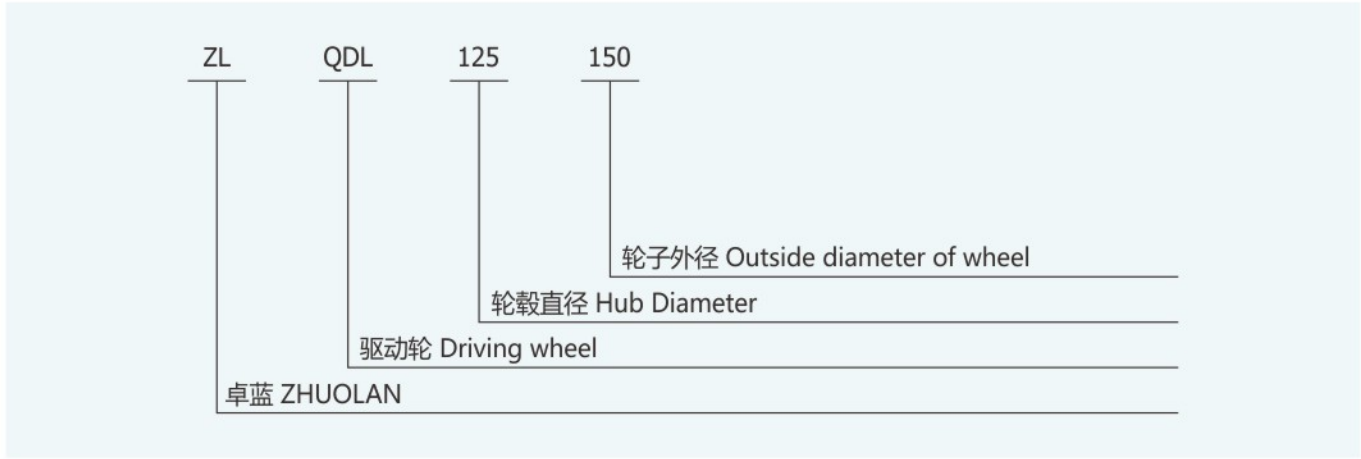


QXC
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- QDL 125 (驱动轮Driving wheel)
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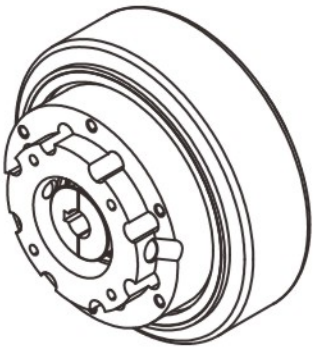
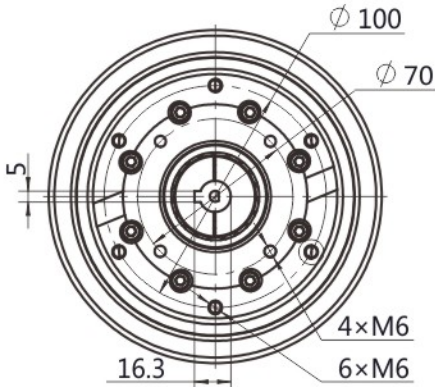
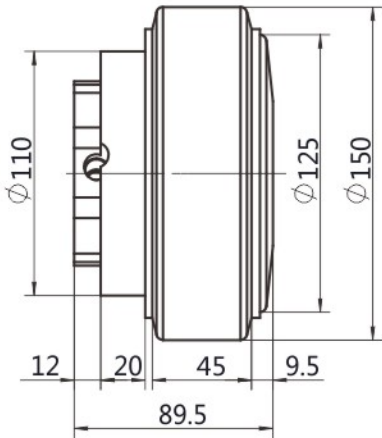
QDL Series

QDL系列型号说明
QDL series model description



QDL 125 Series

ZL-QDL-125-150-400



牵引电机参数
Parameter list of traction motor

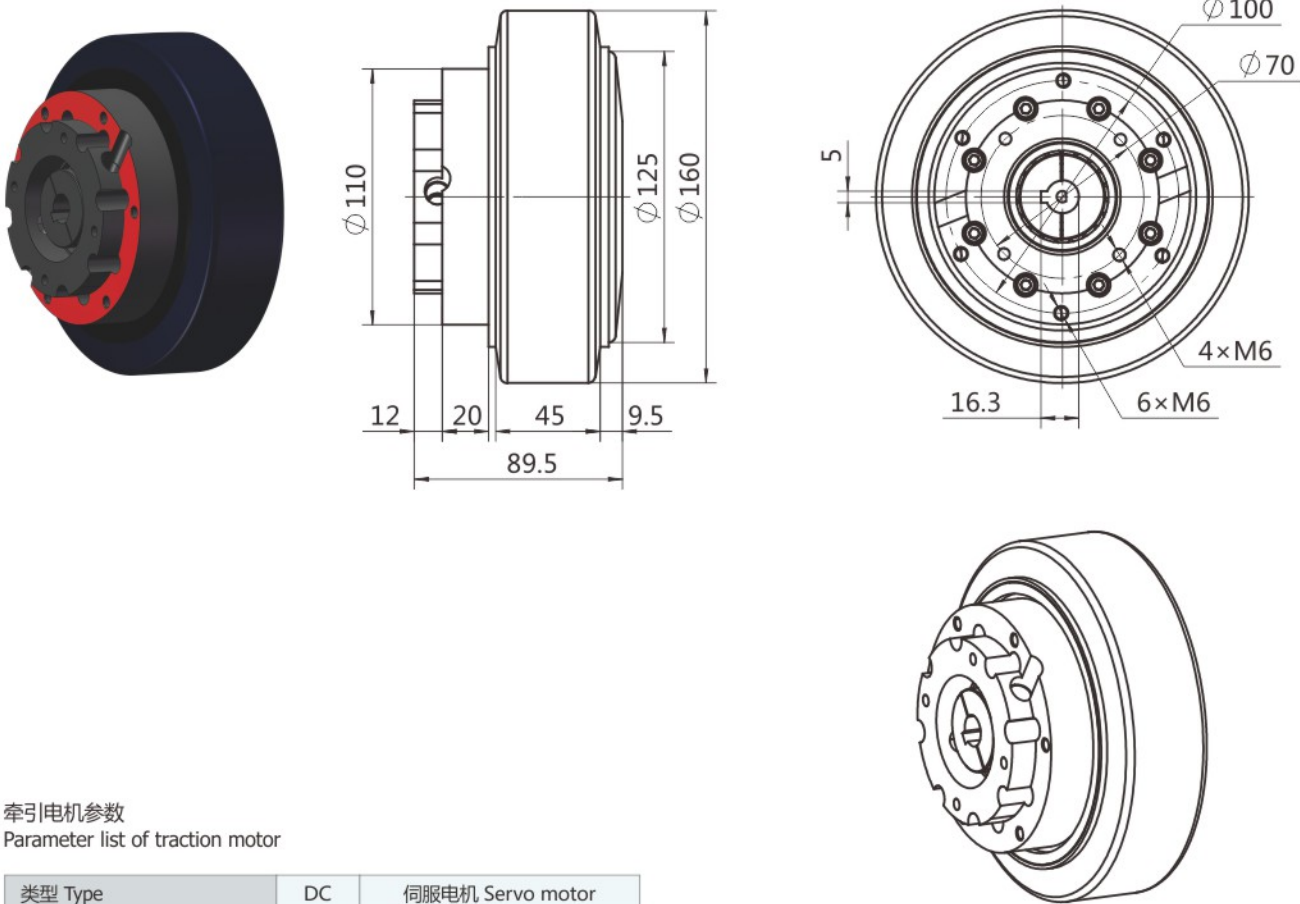
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电机功率 Motor power	W	400
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	11.95
额定扭矩 Rated Torque	N·m	1.27
防护等级 Protection level	IP	65

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	426.7	533.4	609.6	762	1066.8
牵引重量 Traction weight	参考 Reference	463.3	579.1	723.9	810.8	1013.5	1158.2	1448	2026.9

QDL 125 Serices

ZL-QDL-125-160-400



牵引电机参数
Parameter list of traction motor

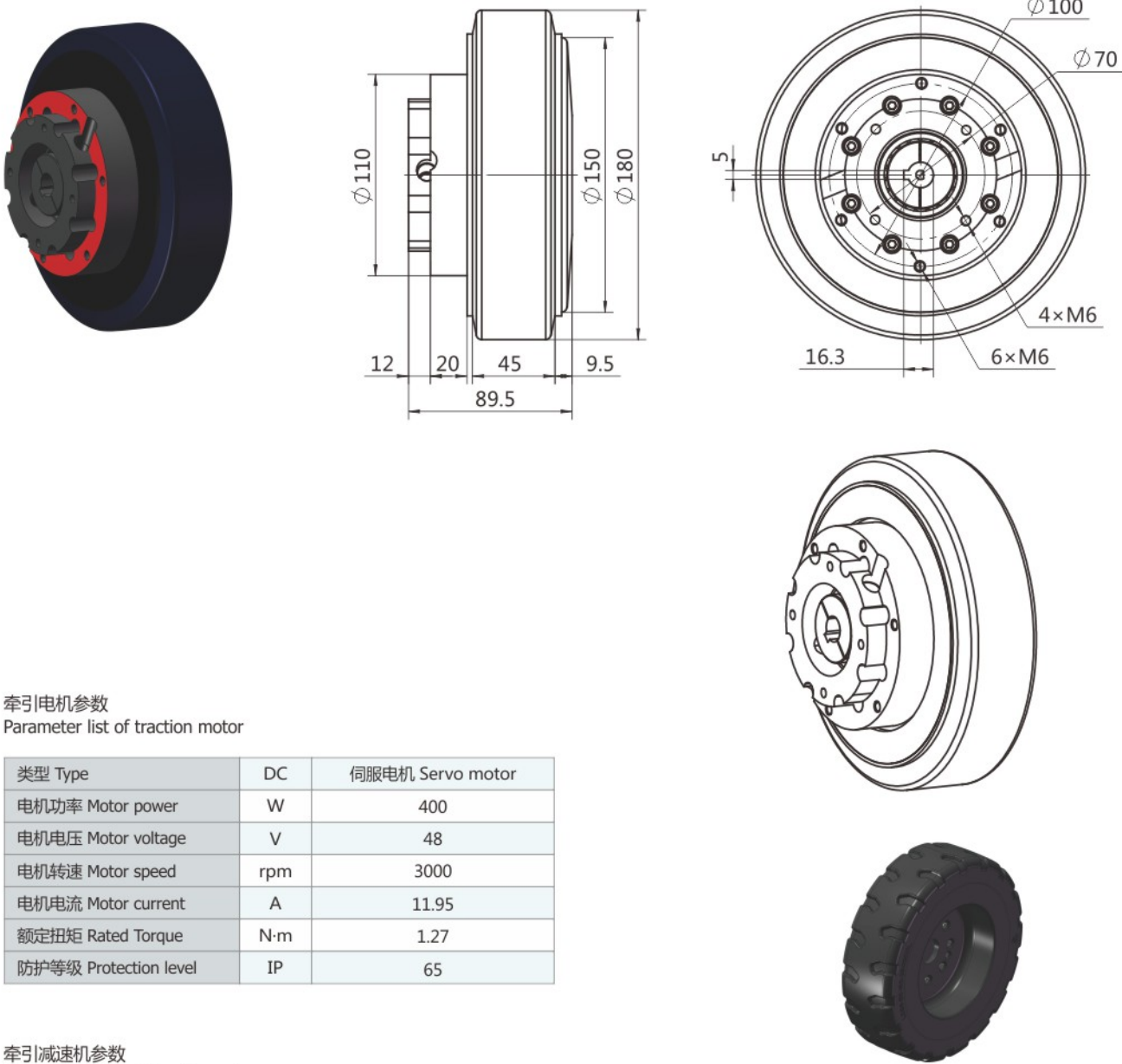
类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	400
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	11.95
额定扭矩 Rated Torque	N·m	1.27
防护等级 Protection level	IP	65

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	33.1	21.5
牵引力 Traction	N	228.6	285.8	357.2	400.1	500.1	571.5	714.4	1000.1
牵引重量 Traction weight	参考 Reference	434.3	542.9	678.7	760.1	950.1	1085.9	1357	1900.2

QDL 150 Serices

ZL-QDL-150-180-400



牵引电机参数
Parameter list of traction motor

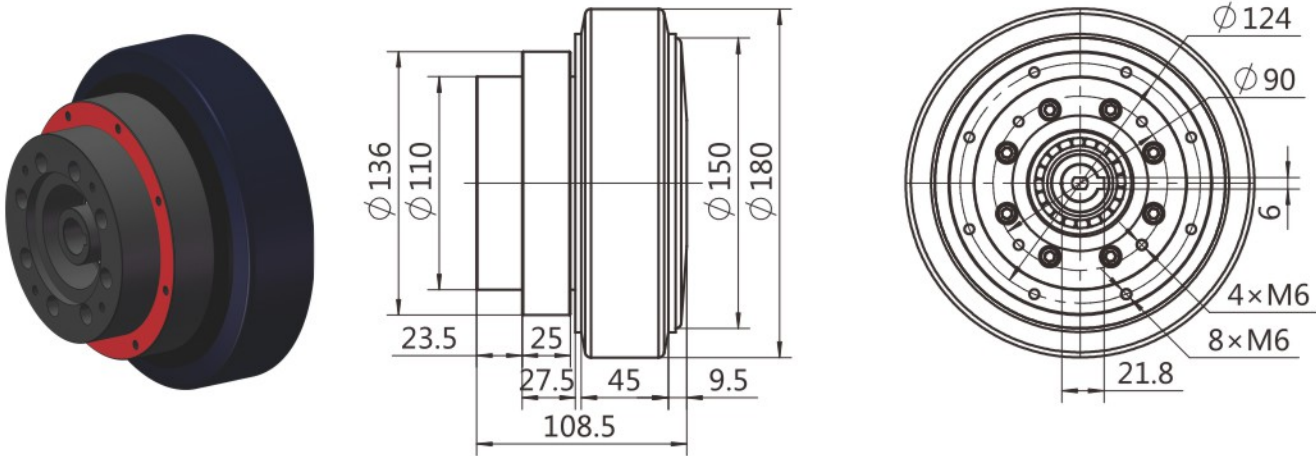
类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	400
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	11.95
额定扭矩 Rated Torque	N·m	1.27
防护等级 Protection level	IP	65

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	355.6	444.5	508	635	889
牵引重量 Traction weight	参考 Reference	386.1	482.6	603.3	675.6	844.6	965.2	1207	1689.1

QDL 150 Serices

ZL-QDL-150-180-750



牵引电机参数
Parameter list of traction motor

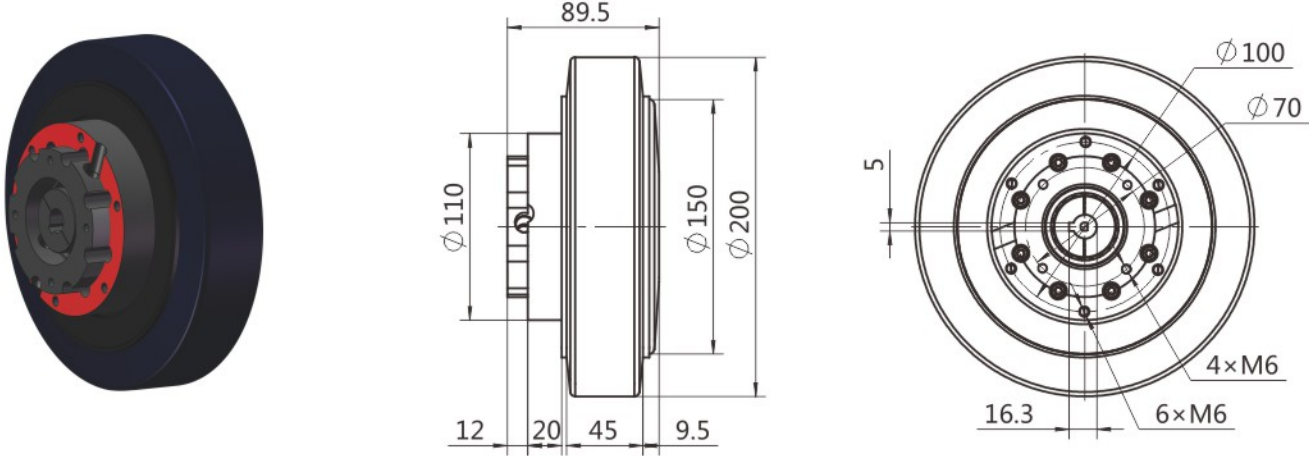
类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	750
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	22.4
额定扭矩 Rated Torque	N·m	2.39
防护等级 Protection level	IP	65

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	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	382.4	478	597.5	669.2	836.5	956	1195	1673
牵引重量 Traction weight	参考 Reference	726.6	908.2	1135.3	1271.5	1589.4	1816.4	2271	3178.7

QDL 150 Serices

ZL-QDL-150-200-400



牵引电机参数
Parameter list of traction motor

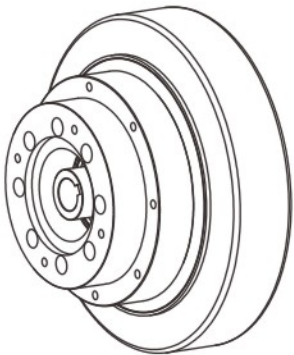
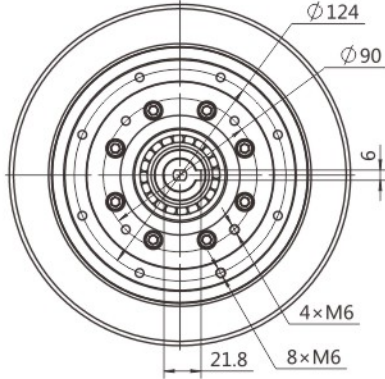
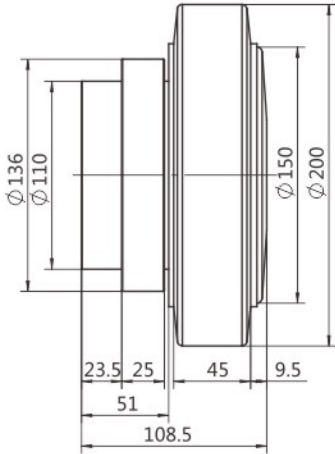
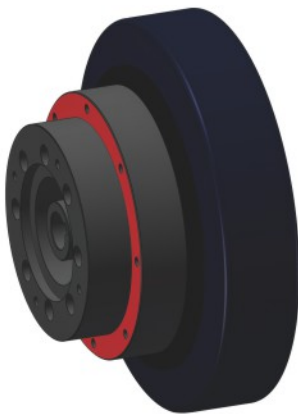
类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	400
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	11.95
额定扭矩 Rated Torque	N·m	1.27
防护等级 Protection level	IP	65

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	320	400	457.2	571.5	800.1
牵引重量 Traction weight	参考 Reference	347.5	434.3	542.9	608.1	760.1	868.7	1086	1520.2

QDL 150 Serices

ZL-QDL-150-200-750



牵引电机参数
Parameter list of traction motor

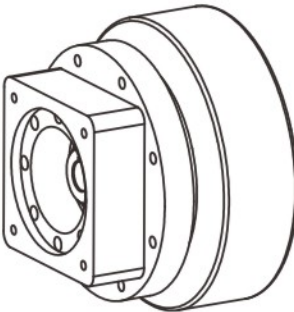
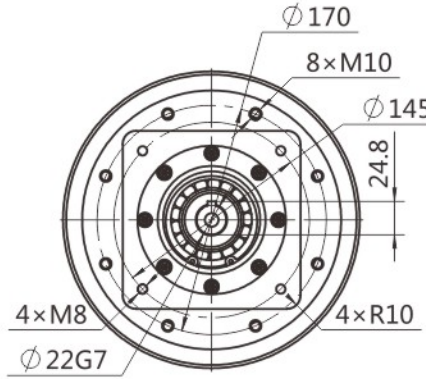
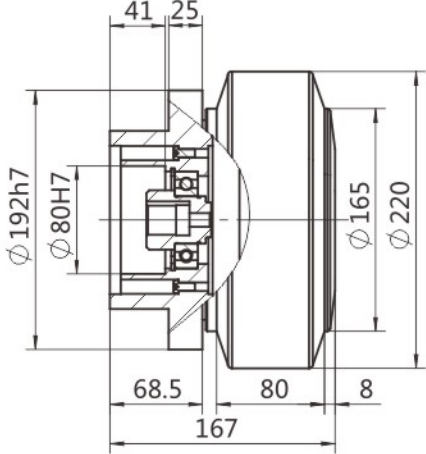
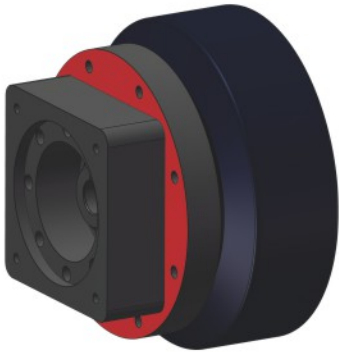
类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	750
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	22.4
额定扭矩 Rated Torque	N·m	2.39
防护等级 Protection level	IP	65

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	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	344.2	430.2	537.8	602.3	752.8	860.4	1076	1505.7
牵引重量 Traction weight	参考 Reference	653.9	817.4	1021.7	1144.3	1430.4	1634.8	2043	2860.8

QDL 165 Serices

ZL-QDL-165-220-1500



牵引电机参数
Parameter list of traction motor

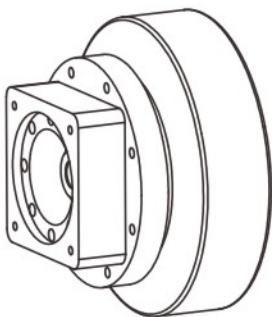
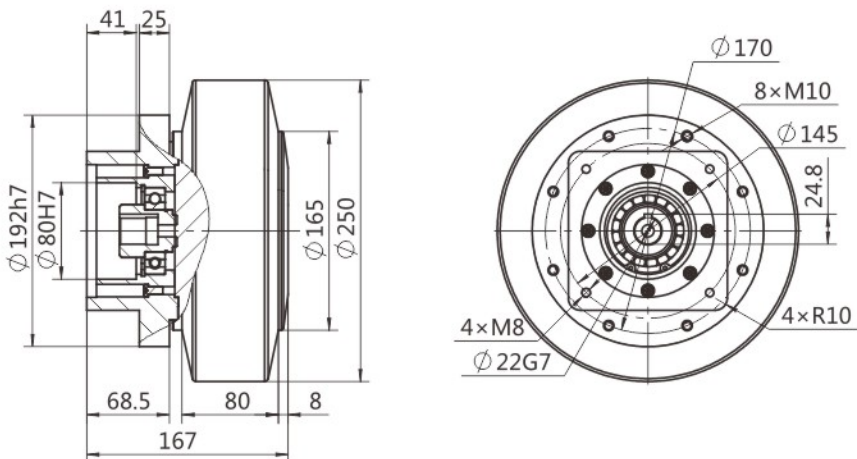
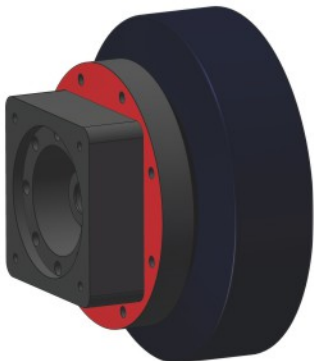
类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	1500
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	39
额定扭矩 Rated Torque	N·m	4.77
防护等级 Protection level	IP	65

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	30	30	33	30	33	30	33	21.5
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	2731.9
牵引重量 Traction weight	参考 Reference	1186.4	1483	1853.8	2076.3	2595.3	2966.1	3708	5190.6

QDL 165 Serices

ZL-QDL-165-250-1500



牵引电机参数
Parameter list of traction motor

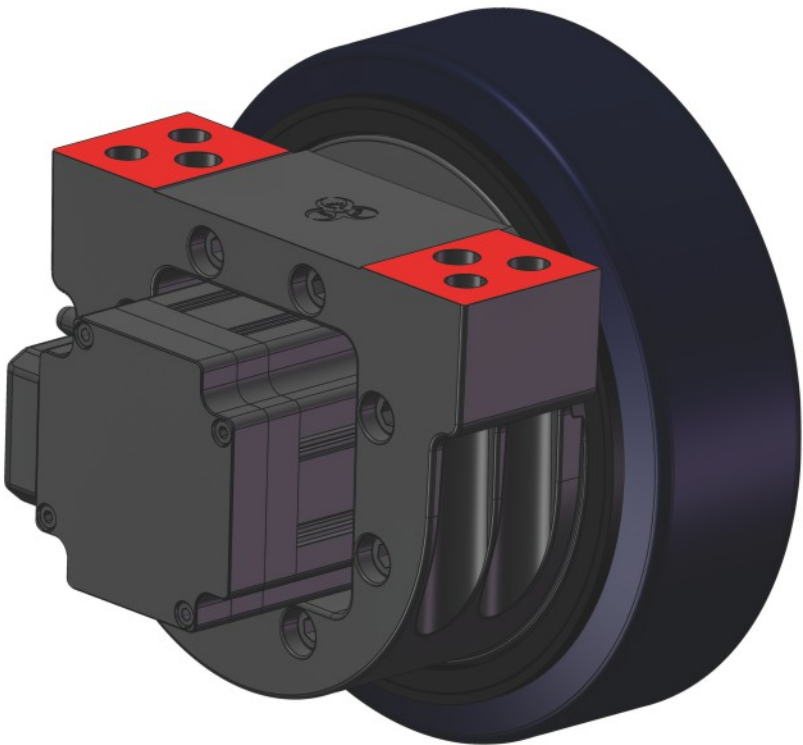
类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	1500
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	39
额定扭矩 Rated Torque	N·m	4.77
防护等级 Protection level	IP	65

牵引减速机参数
Parameter table of traction reducer

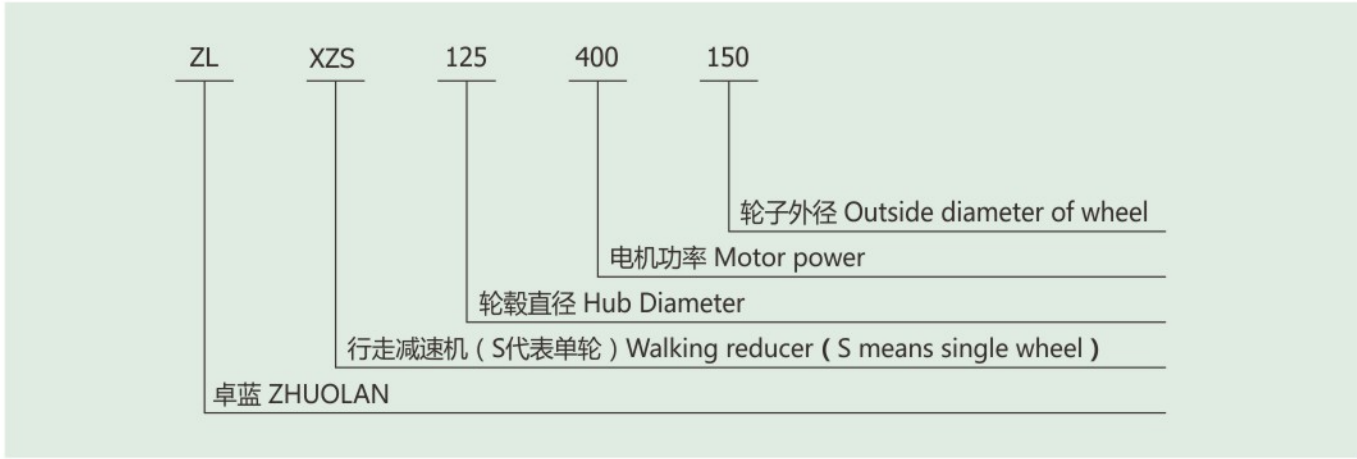
类型 Type	X	行星减速机 Planetary reducer							
减速机速比 Speed ratio of reducer	i	16	20	25	28	35	40	50	70
减速机扭矩 Reducer torque	N·m	30	30	33	30	33	30	33	21.5
聚氨酯承重 Polyurethane load-bearing	Kg	1150							
橡胶承重 Rubber bearing	Kg	750							
最大速度 Maximum velocity	M/min	147.2	117.8	94.2	84.1	67.3	58.9	47.1	33.6
牵引力 Traction	N	549.5	686.9	858.6	961.6	1202	1373.8	1717	2404.1
牵引重量 Traction weight	参考 Reference	1044.1	1305	1631.3	1827.1	2283.9	2610.1	3263	4567.8

- XZS 125
- XZS 150
- XZS 165

XZS
Series

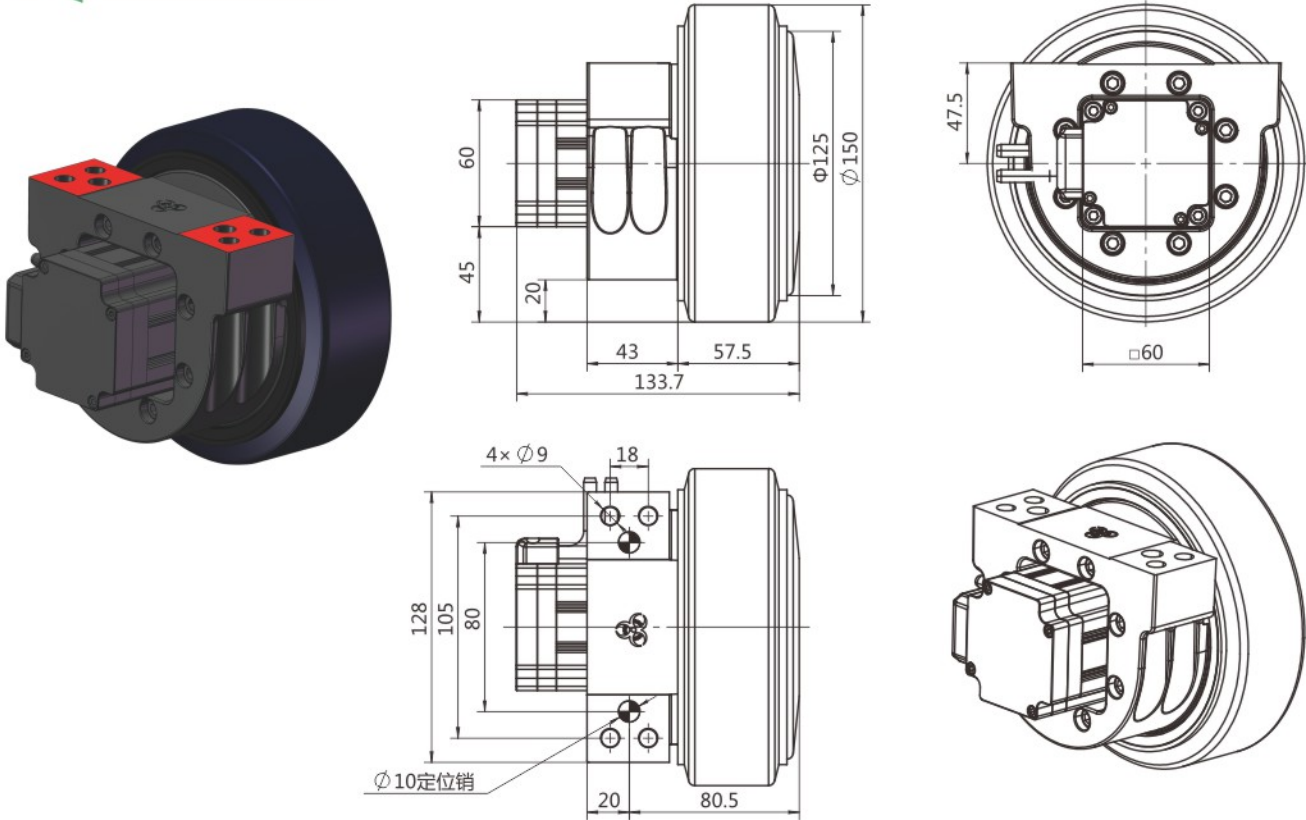


XZS系列型号说明
XZS series model description



XZS 125 Serices

ZL-XZS-125-400-150



牵引电机参数
Parameter list of traction motor

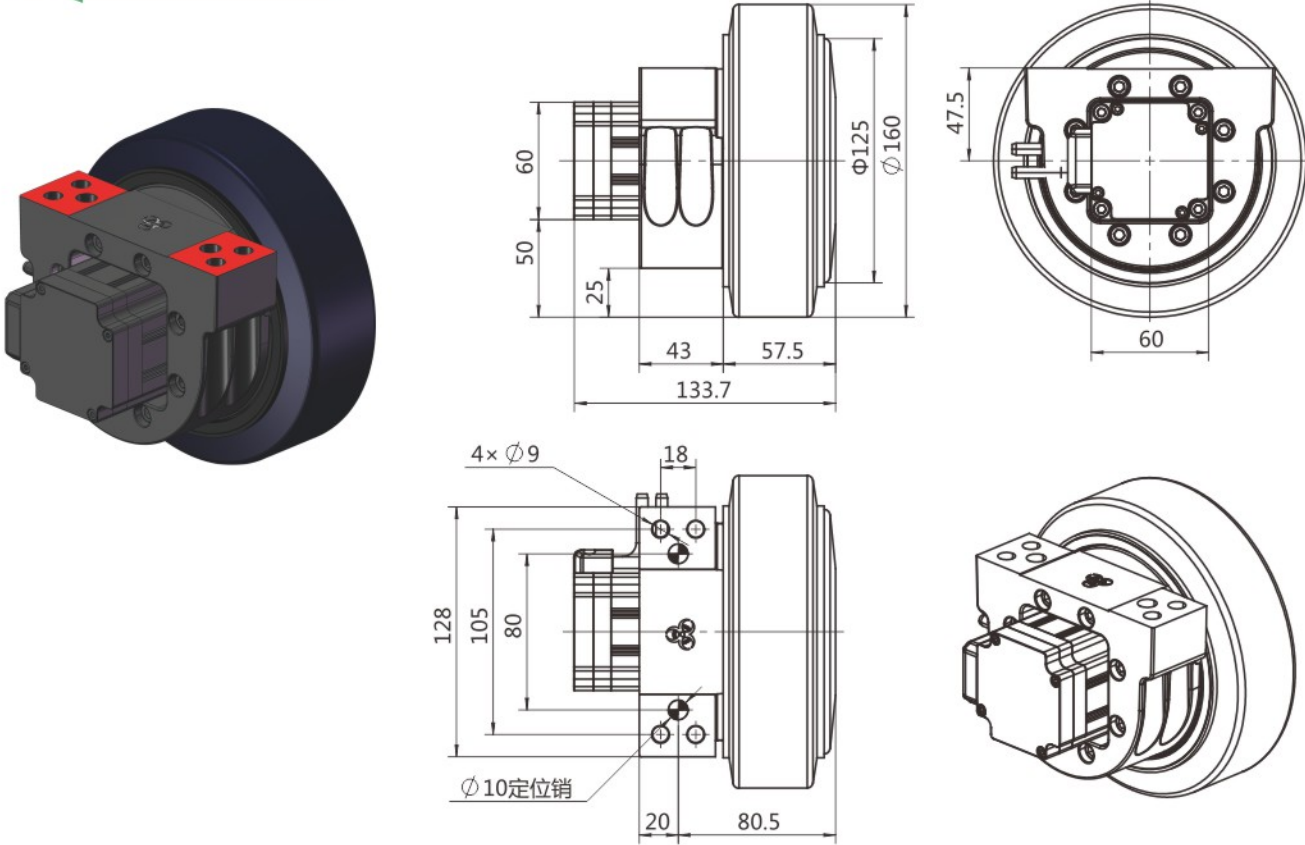
类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	400
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	11.95
额定扭矩 Rated Torque	N·m	1.27
防护等级 Protection level	IP	65

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	426.7	533.4	609.6	762	1066.8
牵引重量 Traction weight	参考 Reference	463.3	579.1	723.9	810.8	1013.5	1158.2	1448	2026.9

XZS 125 Serices

ZL-XZS-125-400-160



牵引电机参数
Parameter list of traction motor

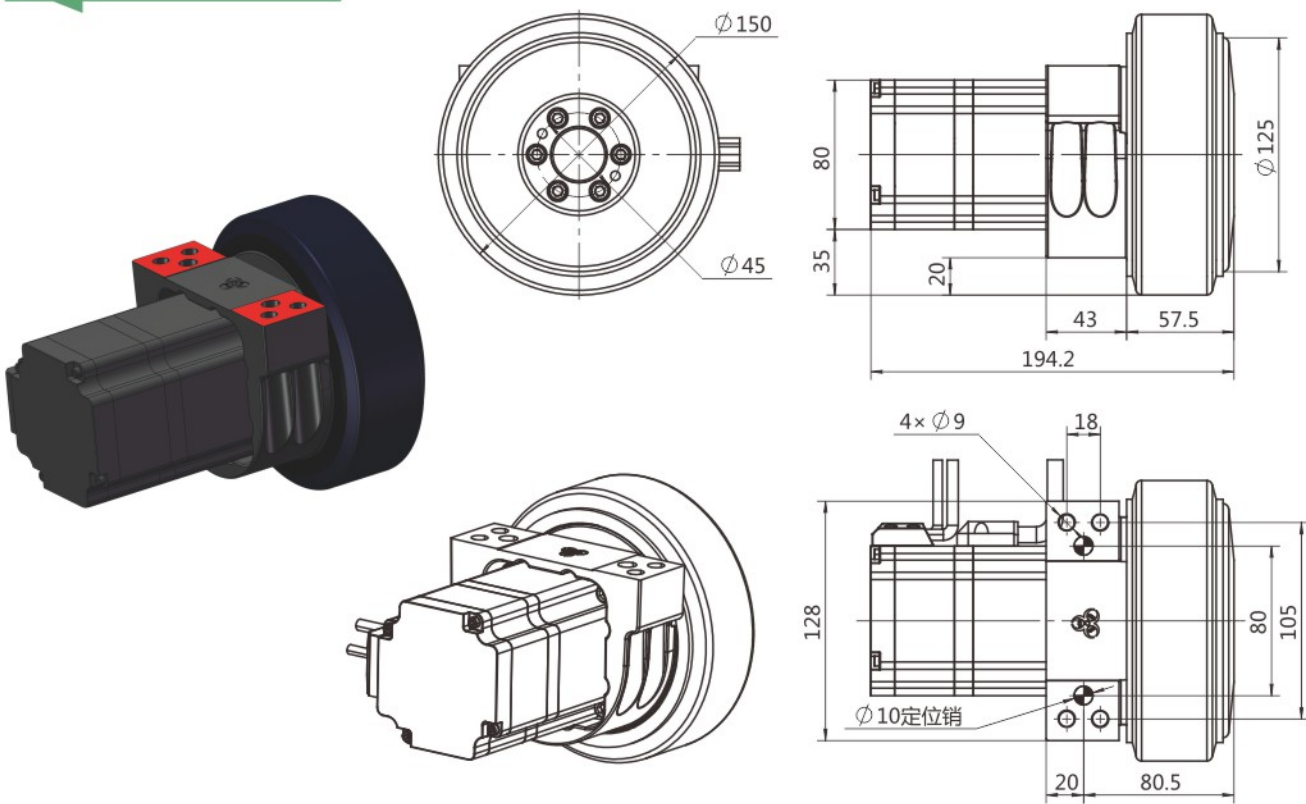
类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	400
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	11.95
额定扭矩 Rated Torque	N·m	1.27
防护等级 Protection level	IP	65

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	33.1	21.5
牵引力 Traction	N	228.6	285.8	357.2	400.1	500.1	571.5	714.4	1000.1
牵引重量 Traction weight	参考 Reference	434.3	542.9	678.7	760.1	950.1	1085.9	1357	1900.2

XZS 125 Serices

ZL-XZS-125-750-150



牵引电机参数
Parameter list of traction motor

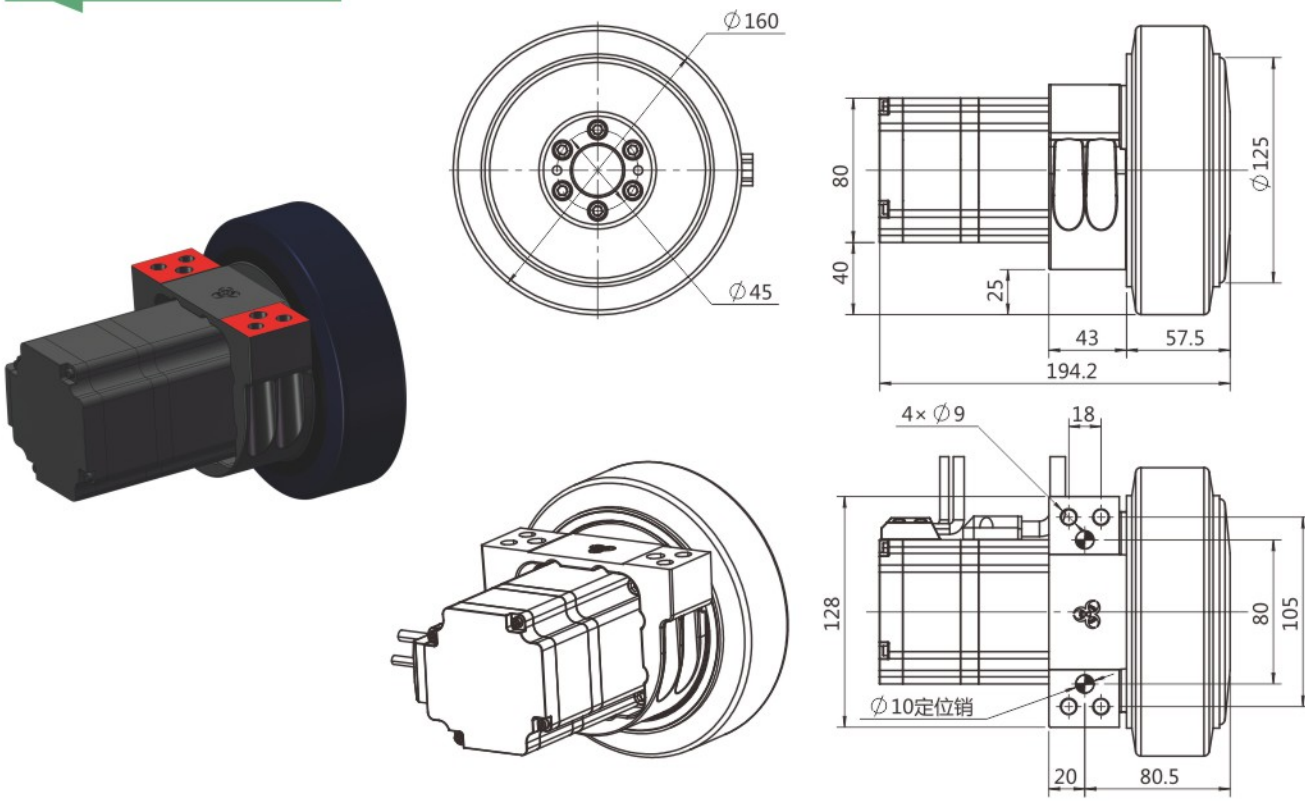
类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	750
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	22.4
额定扭矩 Rated Torque	N·m	2.39
防护等级 Protection level	IP	65

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	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	458.9	573.6	717	803	1003.8	1147.2	1434	2007.6
牵引重量 Traction weight	参考 Reference	871.9	1090	1362.3	1525.8	1907.2	2179.7	2725	3814.4

XZS 125 Serices

ZL-XZS-125-750-160



牵引电机参数
Parameter list of traction motor

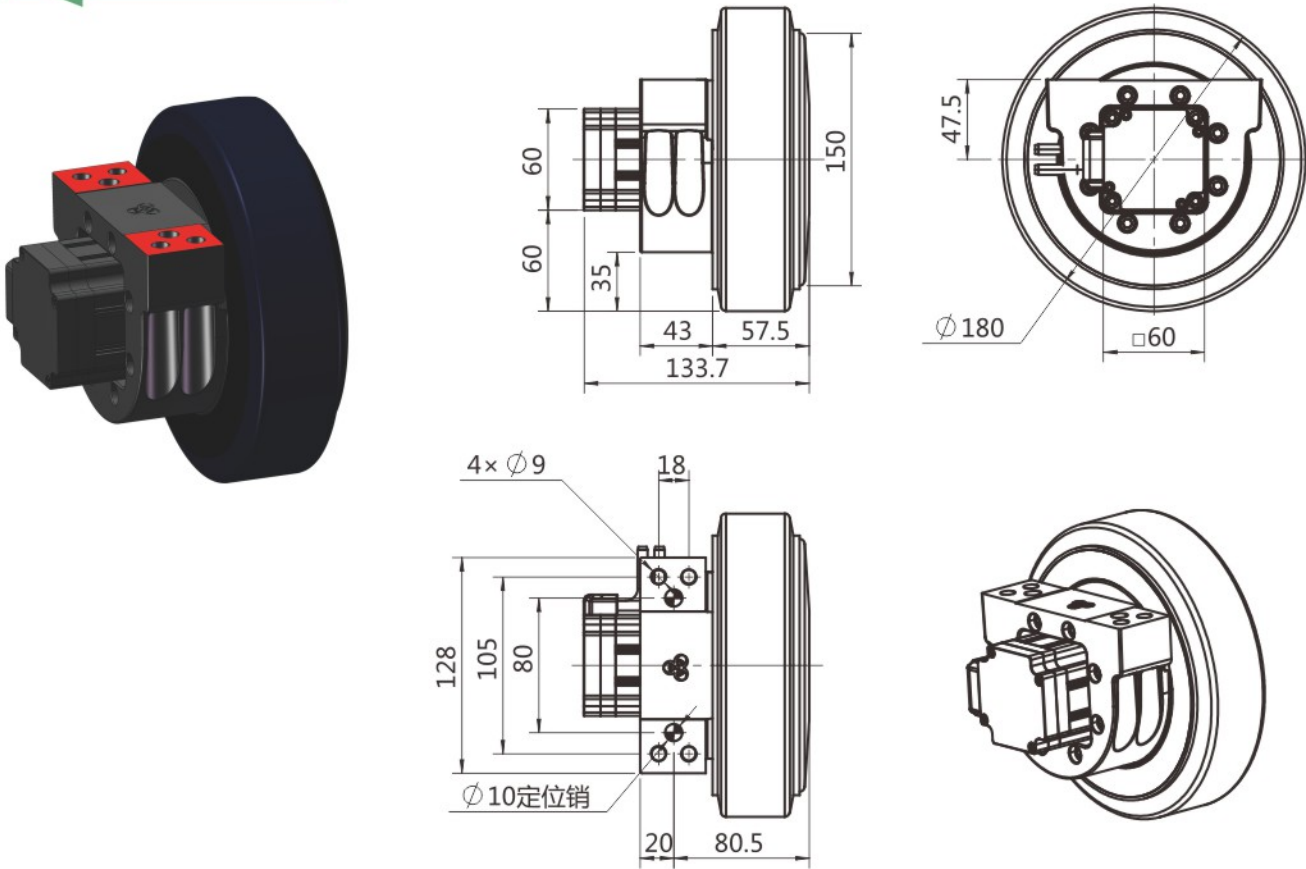
类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	750
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	22.4
额定扭矩 Rated Torque	N·m	2.39
防护等级 Protection level	IP	65

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	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	94.2	75.4	60.3	53.8	43.1	37.7	33.1	21.5
牵引力 Traction	N	430.2	537.8	672.2	752.9	941.1	1075.5	1344	1882.1
牵引重量 Traction weight	参考 Reference	817.4	1022	1277.2	1430.4	1788	2043.5	2554	3576

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

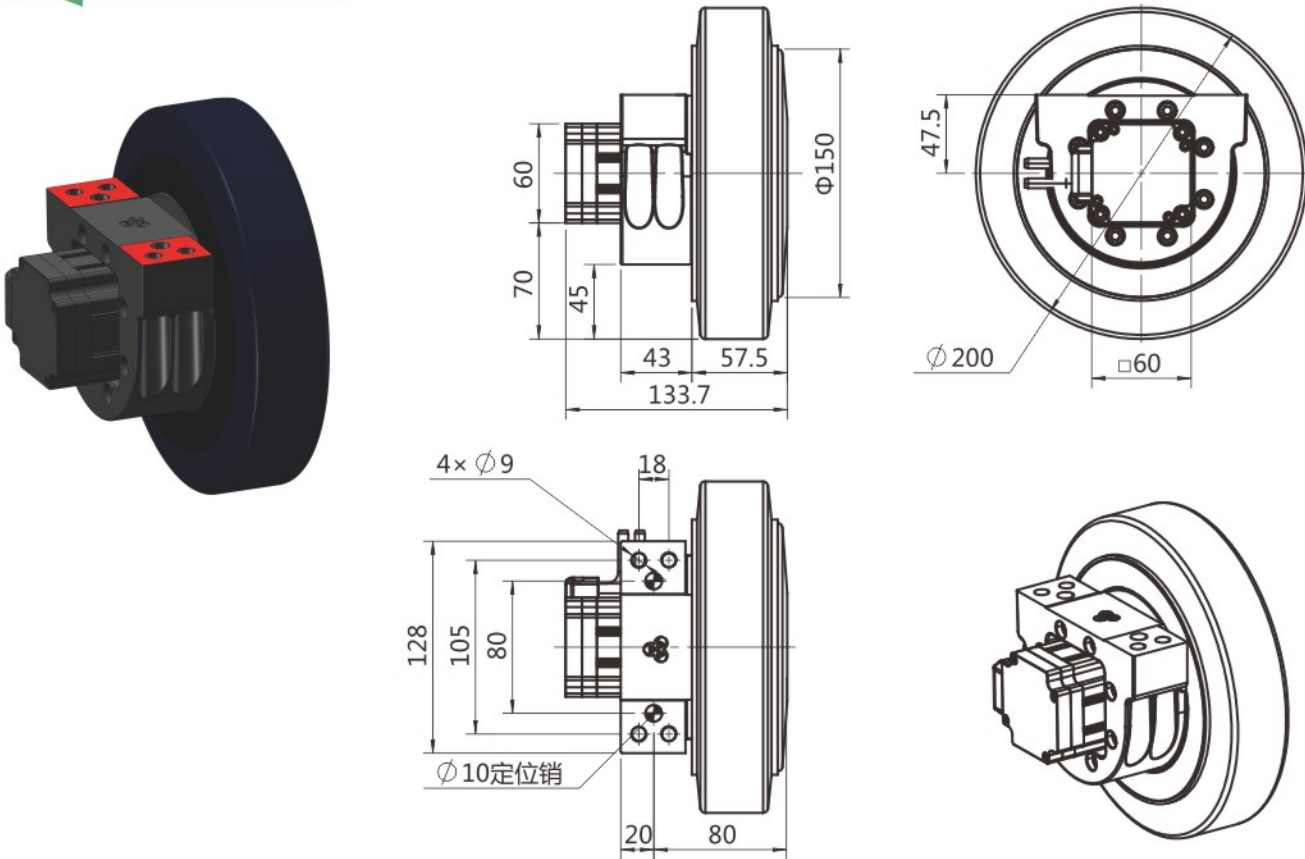


牵引减速机参数
Parameter table of traction reducer

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	355.6	444.5	508	635	889
牵引重量 Traction weight	参考 Reference	386.1	482.6	603.3	675.64	844.6	965.2	1207	1689.1

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

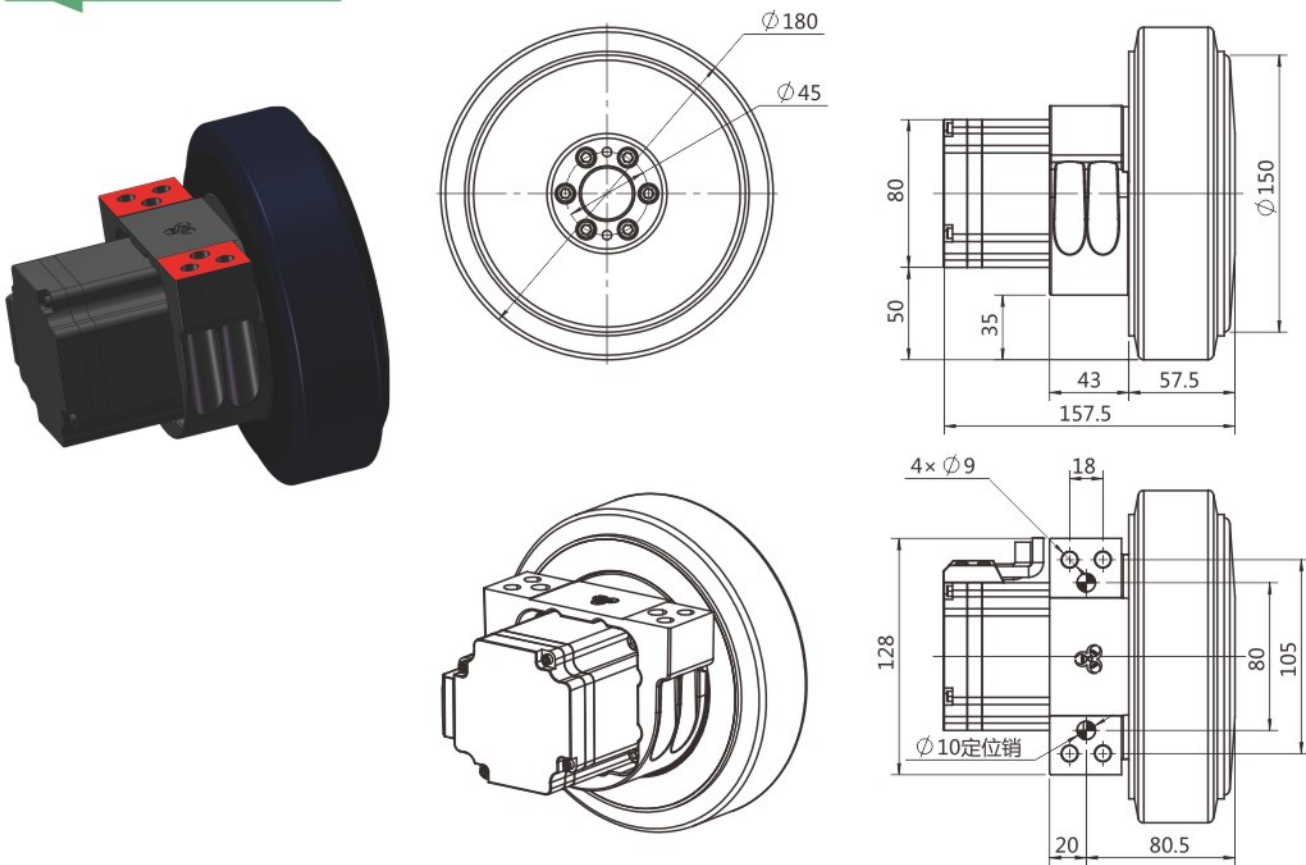


牵引减速机参数
Parameter table of traction reducer

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	600							
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	320	400.1	457.2	571.5	800.1
牵引重量 Traction weight	参考 Reference	347.5	434.3	542.9	608.1	760.1	868.7	1086	1520.2

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

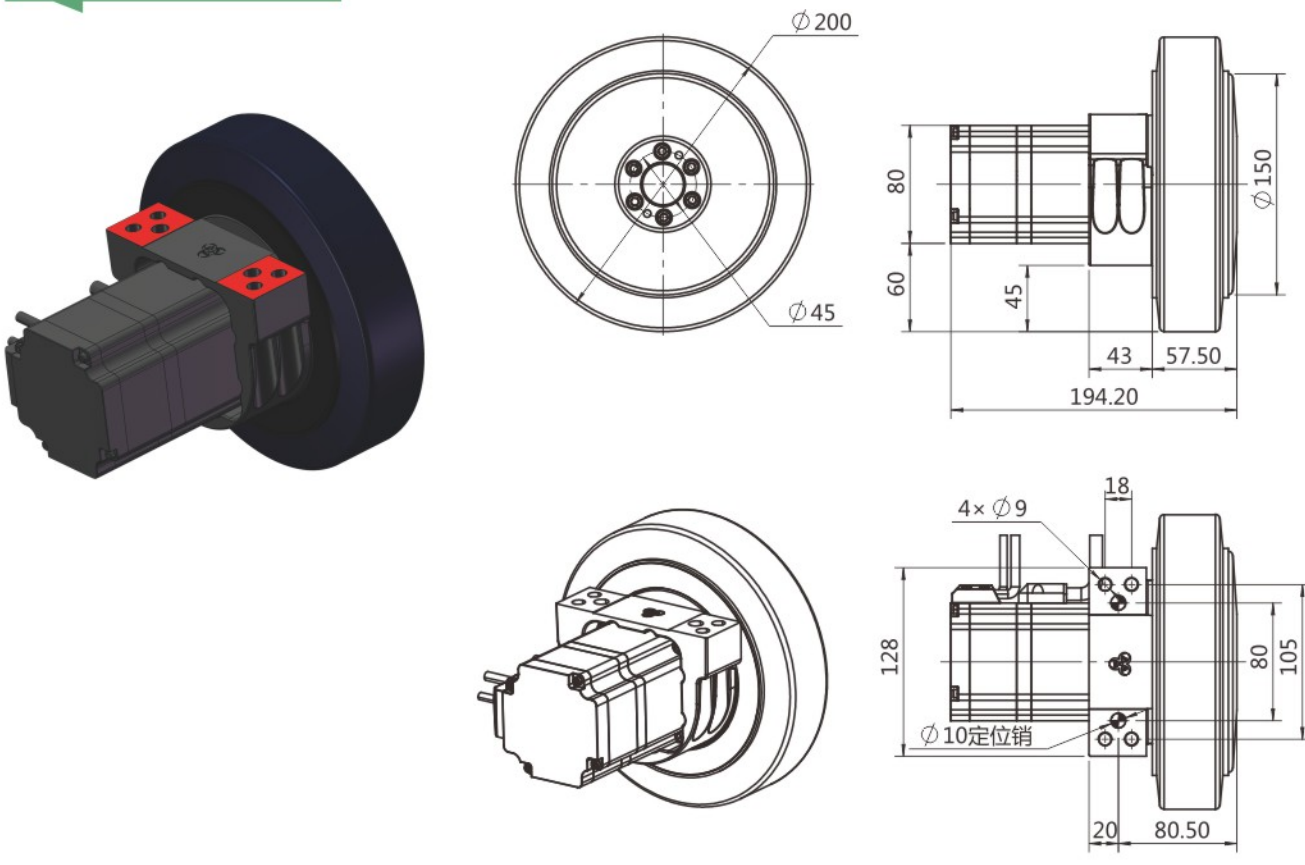


牵引减速机参数
Parameter table of traction reducer

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	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	382.4	478	597.5	669.2	836.5	956	1195	1673
牵引重量 Traction weight	参考 Reference	726.6	908.2	1135.3	1271.5	1589.4	1816.4	2271	3178.7

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

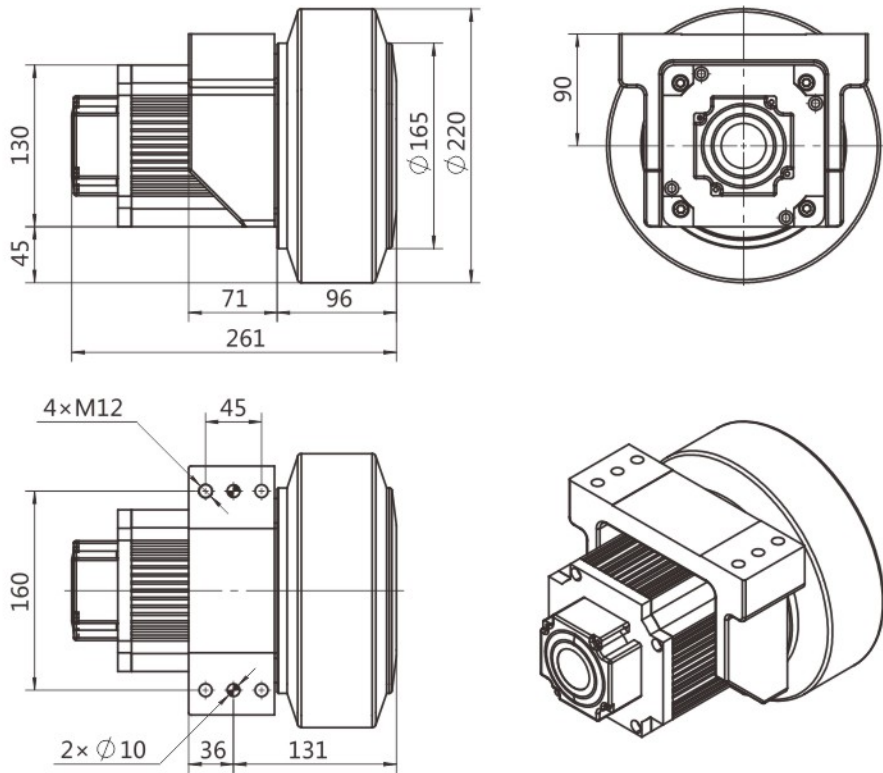
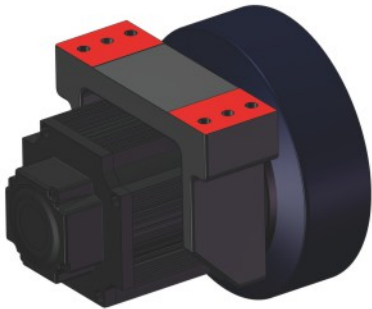


牵引减速机参数
Parameter table of traction reducer

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	30	30	33	30	33	30	33	21.5
聚氨酯承重 Polyurethane load-bearing	Kg	600							
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	1076	1505.7
牵引重量 Traction weight	参考 Reference	653.9	817.4	1021.7	1144.3	1430.4	1634.8	2043	2860.8

XZS 165 Serices

ZL-XZS-165-1500A-220



牵引电机参数
Parameter list of traction motor

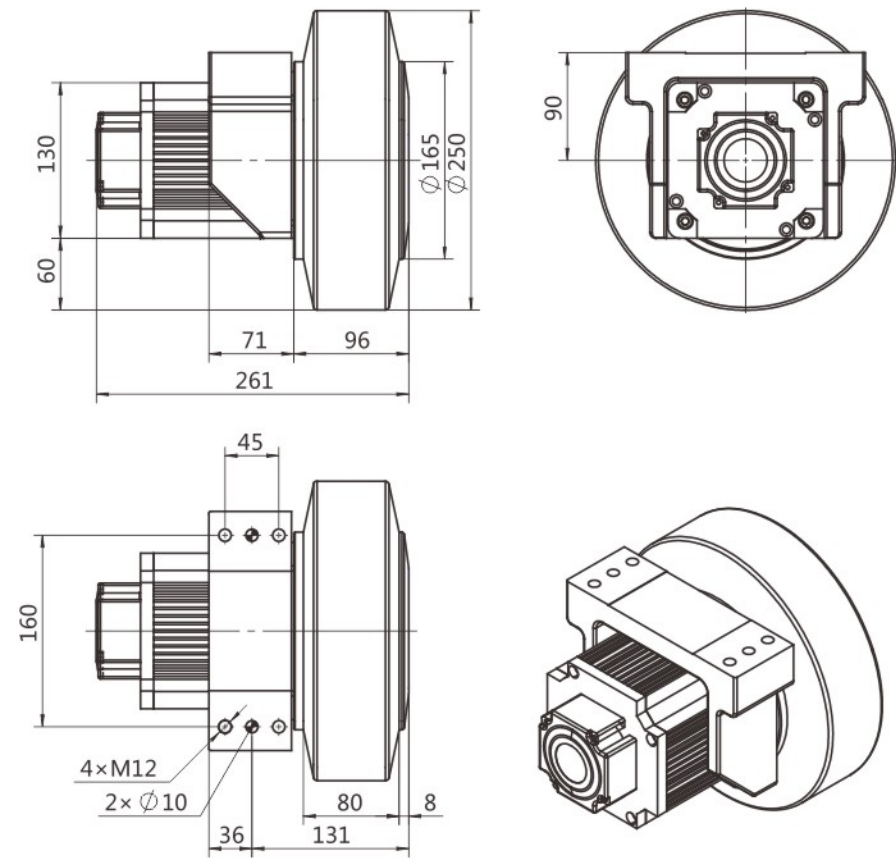
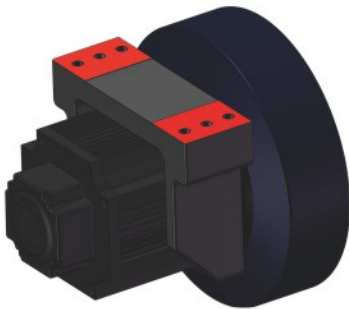
类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	1500
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	39
额定扭矩 Rated Torque	N·m	4.77
防护等级 Protection level	IP	65

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	30	30	33	30	33	30	33	21.5
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	2731.9
牵引重量 Traction weight	参考 Reference	936.7	1170.8	1463.5	1639.1	2048.9	2341.6	2927	4097.9

XZS 165 Serices

ZL-XZS-165-1500A-250



牵引电机参数
Parameter list of traction motor

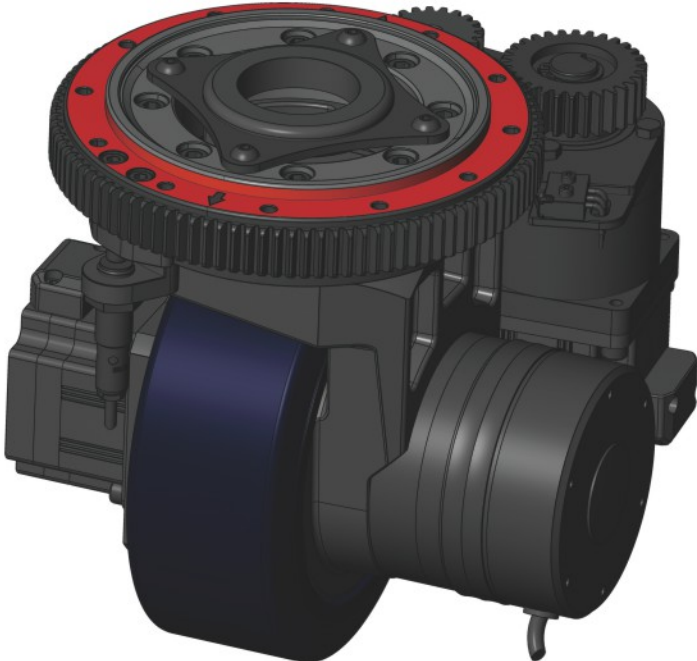
类型 Type	DC	伺服电机 Servo motor
电机功率 Motor power	W	1500
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	39
额定扭矩 Rated Torque	N·m	4.77
防护等级 Protection level	IP	65

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	30	30	33	30	33	30	33	21.5
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	2404.1
牵引重量 Traction weight	参考 Reference	824.3	1030.3	1287.9	1442.4	1803.1	2060.6	2575.8	3606.1



- WDS 150
- WDS 200
- WDS 250
- WDS 300
- WDS 400
- WDS 500

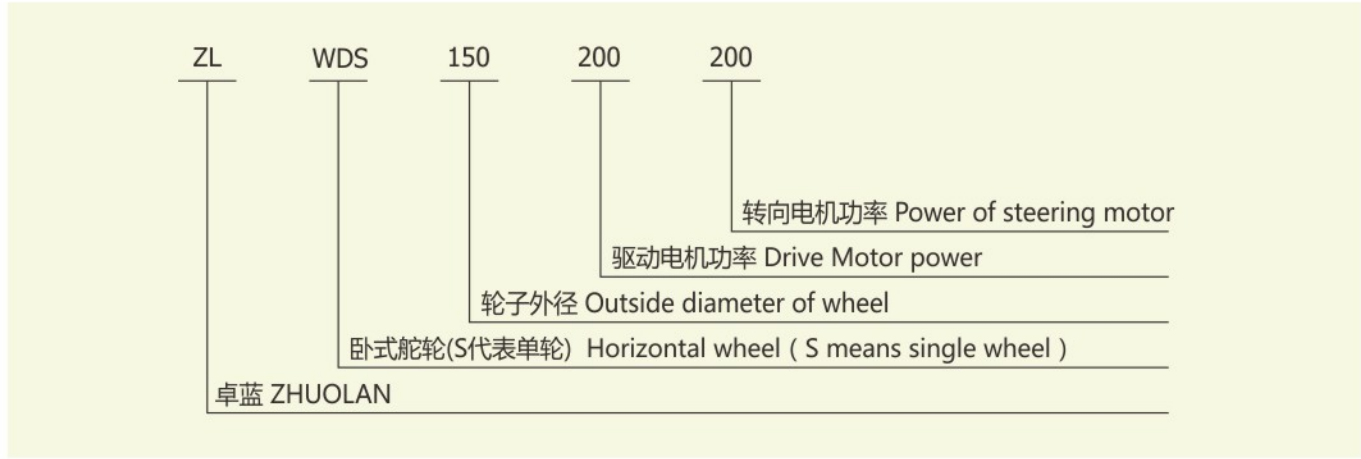


WDS

Series

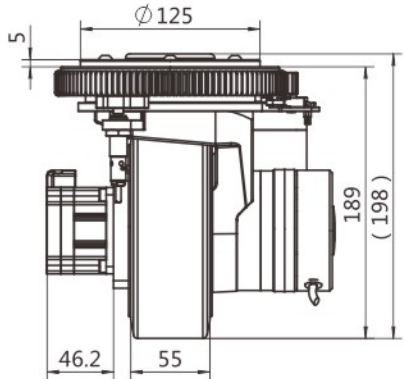
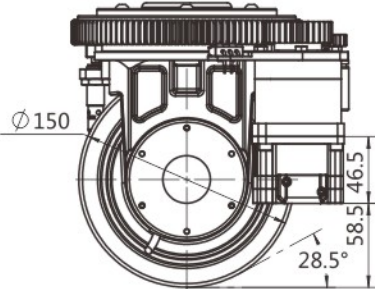
WDS系列型号说明

WDS series model description



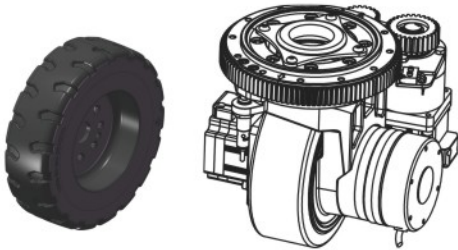
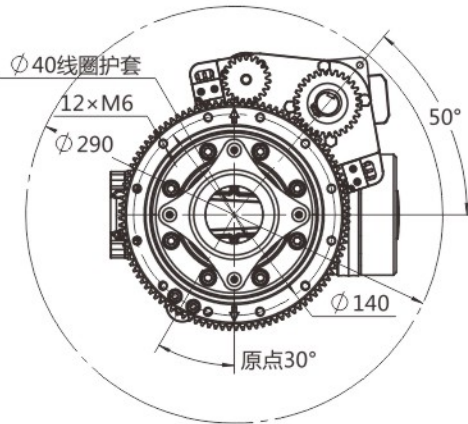
WDS 150 Series

ZL-WDS-150-200-200



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	200		
电机电压 Motor voltage	V(DC)	48		
电机电流 Motor current	A	5.98		
电机转速 Motor speed	rpm	3000		
电机扭矩 Motor Torque	N·m	0.637		
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		20	34	68
行走速度 Walking speed	m/min	70.65	41.55	20.77
舵轮输出扭矩 Output Torque	N·m	12	20	40
牵引力 Traction	N	160	266	533
参考牵引重量 Reference Traction weight	Kg	240	400	800
聚氨酯承重 Polyurethane load-bearing	Kg	550		
橡胶承重 Rubber bearing	Kg	300		

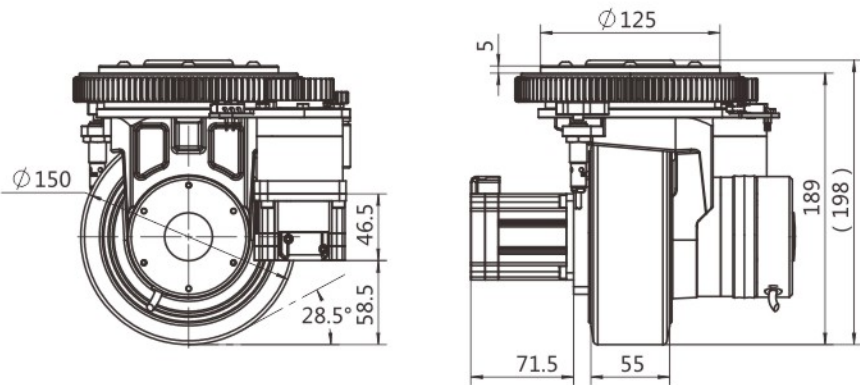


牵引减速机参数
Parameter table of traction reducer

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	200
	电机电压 Motor voltage	V(DC)	48
	电机电流 Motor current	A	5.98
	电机转速 Motor speed	rpm	3000
	电机扭矩 Motor Torque	N·m	0.637
	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	°	±140
制动器 Brake	工作电压 Working voltage	V(DC)	48
	制动扭矩 Braking torque	N·m	4
角度传感器 Angle Sensor	型号 Type	SICK	DBS36E-S3EK02000
限位开关 Limit Switch	工作电压 Working voltage	V	0~48

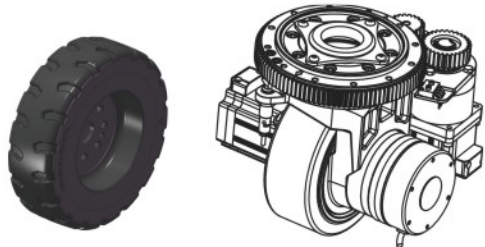
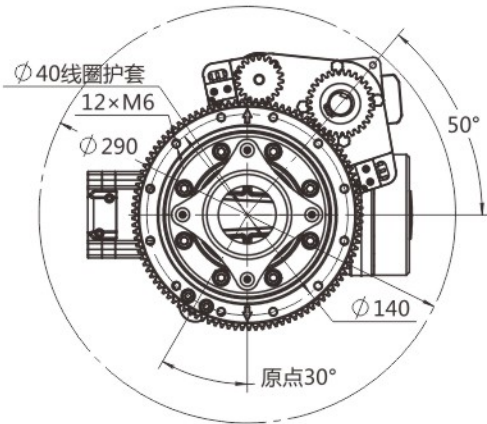
WDS 150 Serices

ZL-WDS-150-400-200



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	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		
行走减速比 Walking reducer		20	34	68
行走速度 Walking speed	m/min	70.65	41.55	20.77
舵轮输出扭矩 Output Torque	N-m	22.9	38.9	77.7
牵引力 Traction	N	322	547	1036
参考牵引重量 Reference Traction weight	Kg	547	929	1658
聚氨酯承重 Polyurethane load-bearing	Kg	550		
橡胶承重 Rubber bearing	Kg	300		

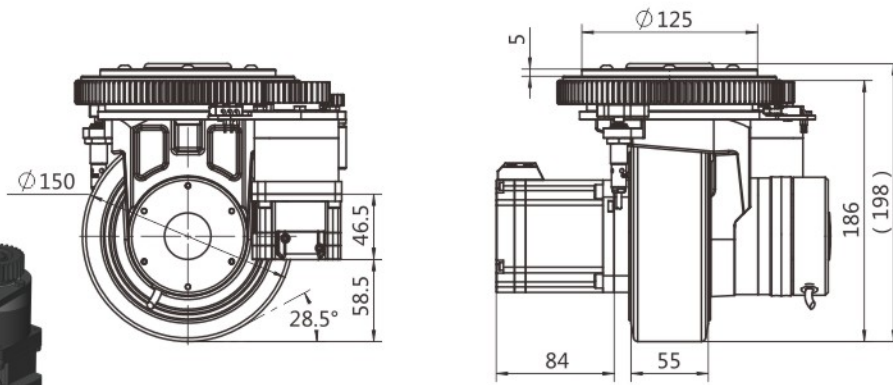


牵引|减速机参数
Parameter table of traction reducer

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	200	
	电机电压 Motor voltage	V(DC)	48	
	电机电流 Motor current	A	5.98	
	电机转速 Motor speed	rpm	3000	
	电机扭矩 Motor Torque	N-m	0.637	
	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	
制动器 Brake	转向角度 Steering Angle	°	±140	
	工作电压 Working voltage	V(DC)	48	
	制动扭矩 Braking torque	N-m	4	
角度传感器 Angle Sensor	型号 Type	SICK	DBS36E-S3EK02000	
限位开关 Limit Switch	工作电压 Working voltage	V	0~48	

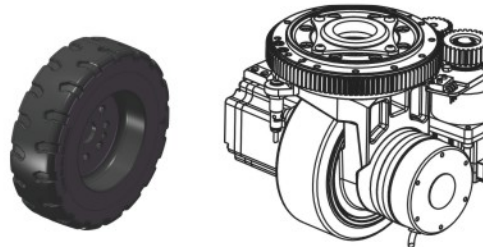
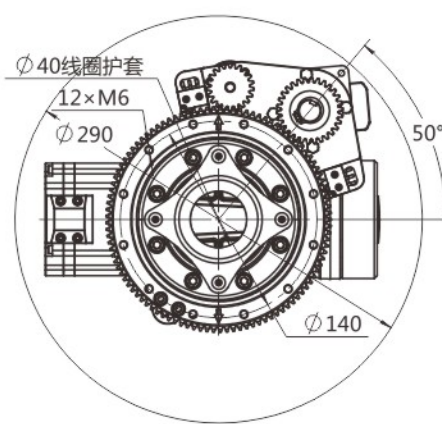
WDS 150 Serices

ZL-WDS-150-750-200



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		20	34	68
行走速度 Walking speed	m/min	70.65	41.55	20.77
舵轮输出扭矩 Output Torque	N-m	43	73	120
牵引力 Traction	N	605	1028	1733
参考牵引重量 Reference Traction weight	Kg	1029	1749	2600
聚氨酯承重 Polyurethane load-bearing	Kg	550		
橡胶承重 Rubber bearing	Kg	300		

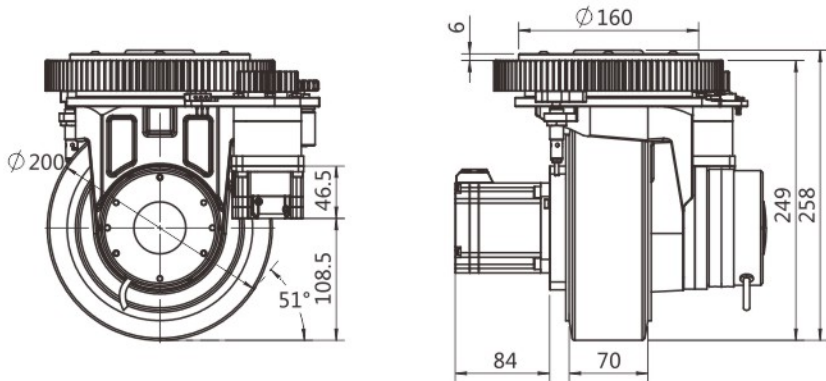


牵引|减速机参数
Parameter table of traction reducer

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	200	
	电机电压 Motor voltage	V(DC)	48	
	电机电流 Motor current	A	5.98	
	电机转速 Motor speed	rpm	3000	
	电机扭矩 Motor Torque	N-m	0.637	
	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	
制动器 Brake	转向角度 Steering Angle	°	±140	
	工作电压 Working voltage	V(DC)	48	
	制动扭矩 Braking torque	N-m	4	
角度传感器 Angle Sensor	型号 Type	SICK	DBS36E-S3EK02000	
限位开关 Limit Switch	工作电压 Working voltage	V	0~48	

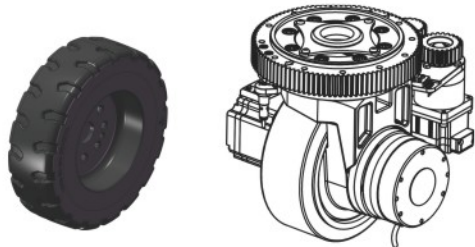
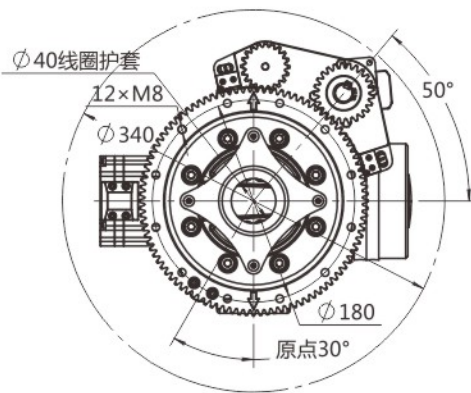
WDS 200 Serices

ZL-WDS-200-750-200



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		21	41	85
行走速度 Walking speed	m/min	88.65	45.44	22.16
舵轮输出扭矩 Output Torque	N-m	45	89	182
牵引力 Traction	N	477	848	1218.9
参考牵引重量 Reference Traction weight	Kg	714	1212	1828.3
聚氨酯承重 Polyurethane load-bearing	Kg	900		
橡胶承重 Rubber bearing	Kg	500		

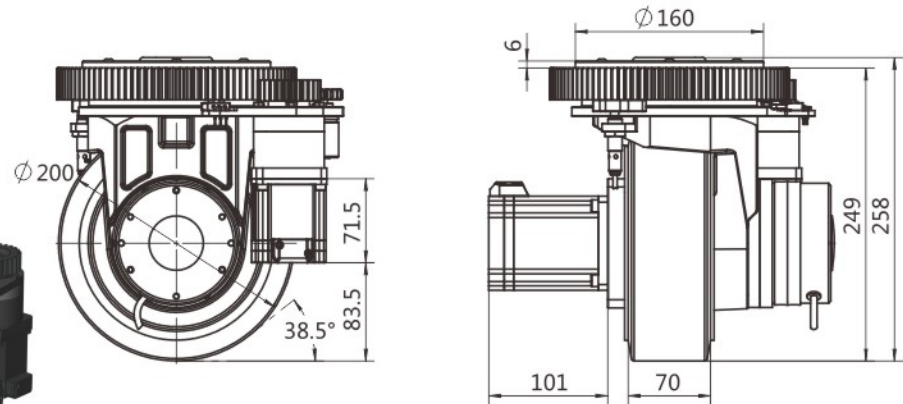


牵引|减速机参数
Parameter table of traction reducer

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	200	
	电机电压 Motor voltage	V(DC)	48	
	电机电流 Motor current	A	5.98	
	电机转速 Motor speed	rpm	3000	
	电机扭矩 Motor Torque	N-m	0.637	
	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	100	齿数比4 : 1 Gear ratio4 : 1	
	转向齿轮齿数 Number of steering gear teeth	25		
	总转向速比 Total steering ratio	i	140	
	编码器齿轮齿数 Number of teeth of encoder gear	Z	20	
制动器 Brake	工作电压 Working voltage	V(DC)	48	
	制动扭矩 Braking torque	N-m	4	
角度传感器 Angle Sensor	型号 Type	SICK	DBS36E-S3EK02000	
限位开关 Limit Switch	工作电压 Working voltage	V	0~48	

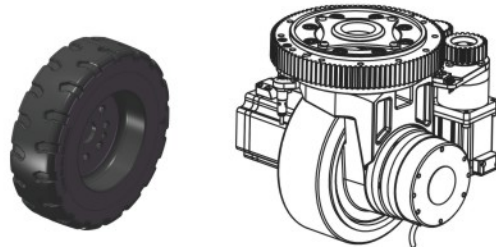
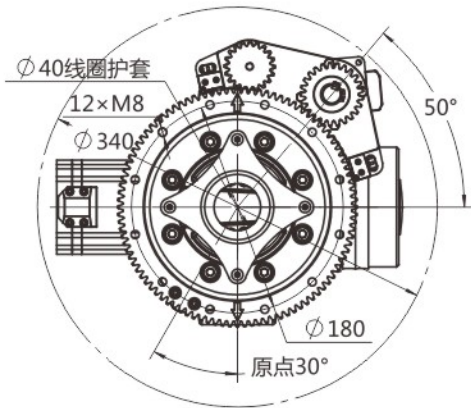
WDS 200 Serices

ZL-WDS-200-1000-400



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	1000		
电机电压 Motor voltage	V(DC)	48		
电机电流 Motor current	A	29.92		
电机转速 Motor speed	rpm	3000		
电机扭矩 Motor Torque	N-m	3.183		
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		21	41	85
行走速度 Walking speed	m/min	88.65	45.44	22.16
舵轮输出扭矩 Output Torque	N-m	64	125	250
牵引力 Traction	N	640	1250	2500
参考牵引重量 Reference Traction weight	Kg	1140	1780	2422
聚氨酯承重 Polyurethane load-bearing	Kg	900		
橡胶承重 Rubber bearing	Kg	500		

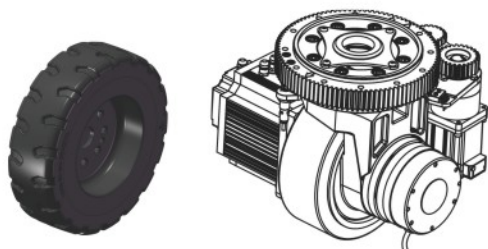
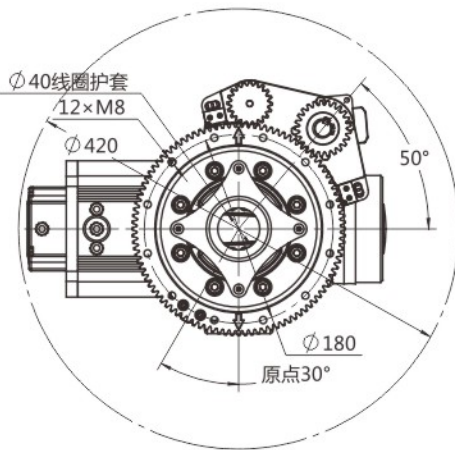
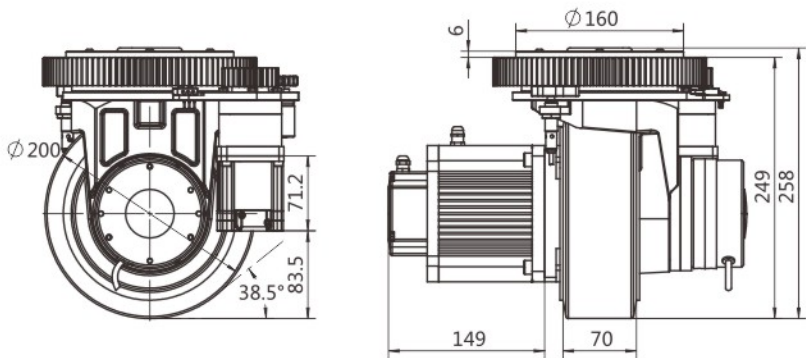
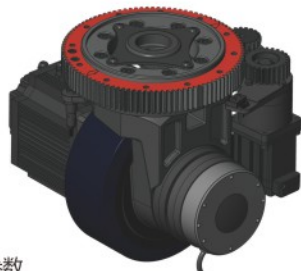


牵引|减速机参数
Parameter table of traction reducer

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	100	齿数比4 : 1 Gear ratio 4 : 1	
	转向齿轮齿数 Number of steering gear teeth	25		
	总转向速比 Total steering ratio	i	140	
	编码器齿轮齿数 Number of teeth of encoder gear	Z	20	
制动器 Brake	工作电压 Working voltage	V(DC)	48	
	制动扭矩 Braking torque	N-m	4	
角度传感器 Angle Sensor	型号 Type	SICK	DBS36E-S3EK02000	
限位开关 Limit Switch	工作电压 Working voltage	V	0~48	

WDS 200 Serices

ZL-WDS-200-1500-400



行走电机参数
Parameters of walking motor

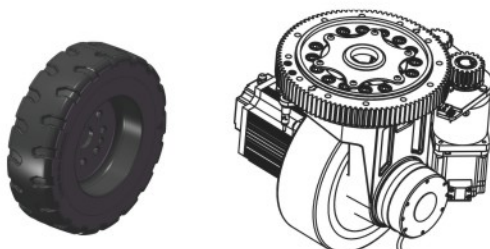
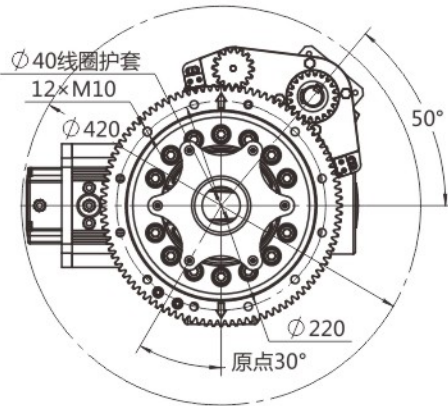
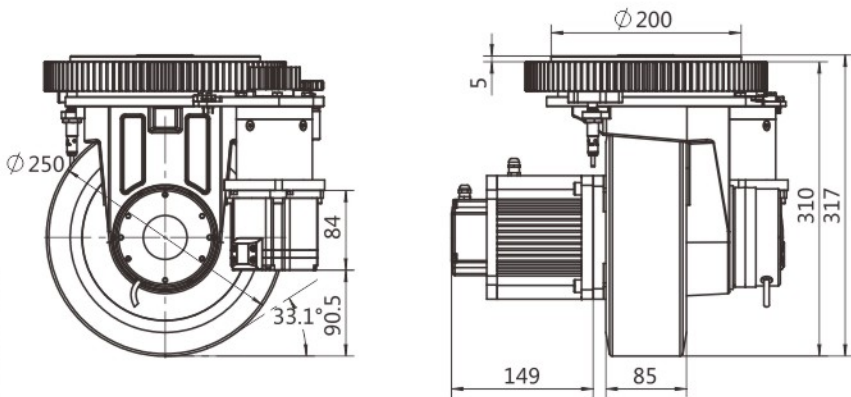
电机类型 Motor type		伺服电机 Servo motor		
电机功率 Motor power	W	1500		
电机电压 Motor voltage	V(DC)	48		
电机电流 Motor current	A	39		
电机转速 Motor speed	rpm	3000		
电机扭矩 Motor Torque	N-m	4.77		
防护等级 Protection level	IP	54		
电机编码器 Motor encoder		增量磁编 Magnetic coding		
行走减速比 Walking reducer		21	41	85
行走速度 Walking speed	m/min	88.65	45.44	22.16
舵轮输出扭矩 Output Torque	N-m	90	176	310
牵引力 Traction	N	880	1700	2125
参考牵引重量 Reference Traction weight	Kg	1500	2343	3187.5
聚氨酯承重 Polyurethane load-bearing	Kg	900		
橡胶承重 Rubber bearing	Kg	500		

牵引|减速机参数
Parameter table of traction reducer

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	100	齿数比4 : 1 Gear ratio 4 : 1	
	转向齿轮齿数 Number of steering gear teeth	25		
	总转向速比 Total steering ratio	i	140	
	编码器齿轮齿数 Number of teeth of encoder gear	Z	20	
制动器 Brake	工作电压 Working voltage	V(DC)	48	
	制动扭矩 Braking torque	N-m	4	
角度传感器 Angle Sensor	型号 Type	SICK	DBS36E-S3EK02000	
限位开关 Limit Switch	工作电压 Working voltage	V	0 ~ 48	

WDS 250 Serices

ZL-WDS-250-1500-750



行走电机参数
Parameters of walking motor

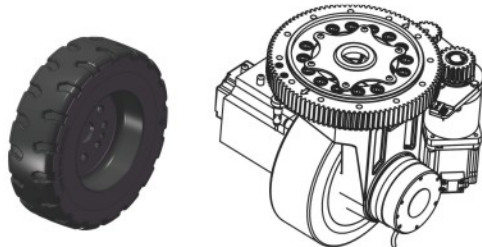
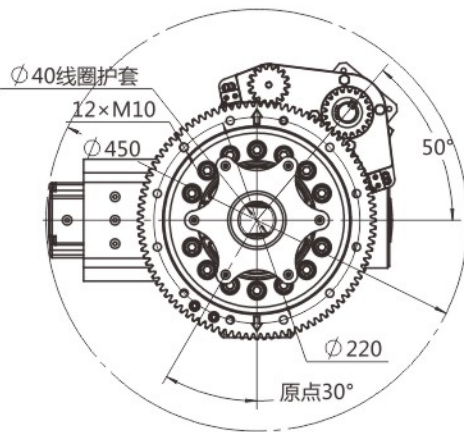
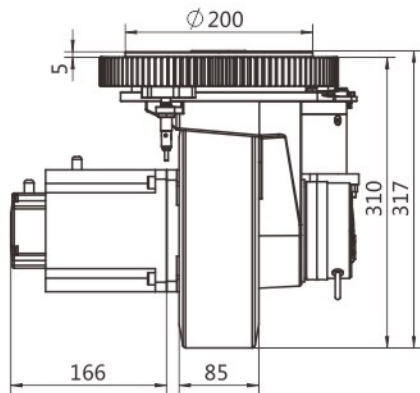
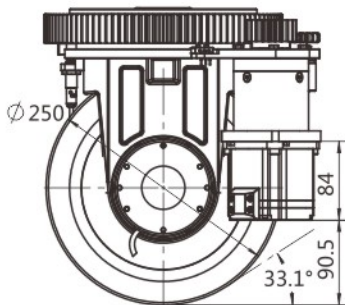
电机类型 Motor type		伺服电机 Servo motor		
电机功率 Motor power	W	1500		
电机电压 Motor voltage	V(DC)	48		
电机电流 Motor current	A	39		
电机转速 Motor speed	rpm	3000		
电机扭矩 Motor Torque	N-m	4.77		
防护等级 Protection level	IP	54		
电机编码器 Motor encoder		增量磁编 Magnetic coding		
行走减速比 Walking reducer		21	41	85
行走速度 Walking speed	m/min	110.82	56.8	27.7
舵轮输出扭矩 Output Torque	N-m	94.5	184	310
牵引力 Traction	N	756	1472	1700
参考牵引重量 Reference Traction weight	Kg	1134	2000	2550
聚氨酯承重 Polyurethane load-bearing	Kg	1200		
橡胶承重 Rubber bearing	Kg	800		

牵引|减速机参数
Parameter table of traction reducer

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	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	
	减速器速比 Speed ratio of reducer	i	35	
	回转支承齿数 Slewing gear	100	齿数比5 : 1 Gear ratio 5 : 1	
	转向齿轮齿数 Number of steering gear teeth	20		
	总转向速比 Total steering ratio	i	175	
	编码器齿轮齿数 Number of teeth of encoder gear	Z	16	
制动器 Brake	工作电压 Working voltage	V(DC)	48	
	制动扭矩 Braking torque	N-m	4	
角度传感器 Angle Sensor	型号 Type	SICK	DBS36E-S3EK02000	
限位开关 Limit Switch	工作电压 Working voltage	V	0 ~ 48	

WDS 250 Serices

ZL-WDS-250-2300-750



行走电机参数
Parameters of walking motor

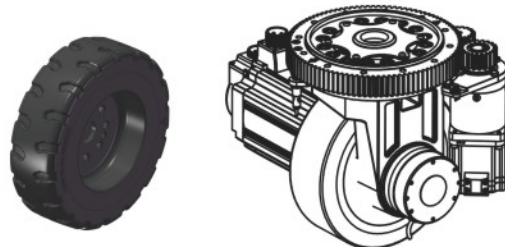
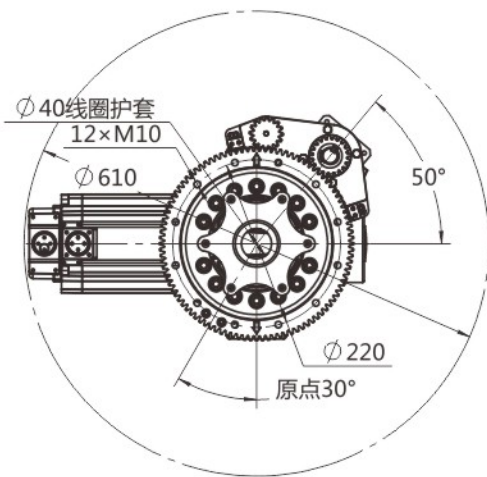
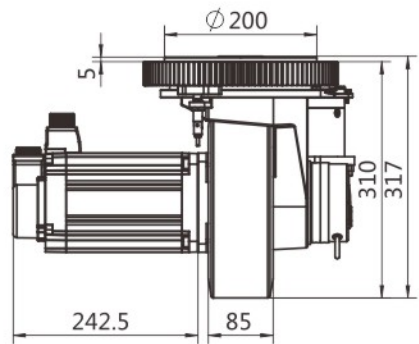
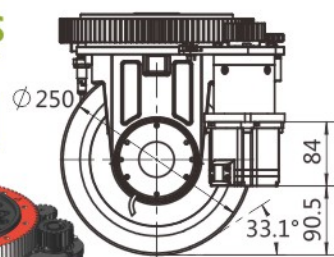
电机类型 Motor type		伺服电机 Servo motor		
电机功率 Motor power	W	2300		
电机电压 Motor voltage	V(DC)	48		
电机电流 Motor current	A	65		
电机转速 Motor speed	rpm	3000		
电机扭矩 Motor Torque	N-m	7.3		
防护等级 Protection level	IP	54		
电机编码器 Motor encoder		增量磁编 Magnetic coding		
行走减速比 Walking reducer		21	41	85
行走速度 Walking speed	m/min	110.82	56.8	27.7
舵轮输出扭矩 Output Torque	N-m	138	270	310
牵引力 Traction	N	1165	1823	2482
参考牵引重量 Reference Traction weight	Kg	1748	2735	3723
聚氨酯承重 Polyurethane load-bearing	Kg	1200		
橡胶承重 Rubber bearing	Kg	800		

牵引|减速机参数
Parameter table of traction reducer

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	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	
	减速器速比 Speed ratio of reducer	i	35	
	回转支承齿数 Slewing gear	100	齿数比5 : 1 Gear ratio 5 : 1	
	转向齿轮齿数 Number of steering gear teeth	20		
	总转向速比 Total steering ratio	i	175	
	编码器齿轮齿数 Number of teeth of encoder gear	Z	16	
制动器 Brake	工作电压 Working voltage	V(DC)	48	
	制动扭矩 Braking torque	N-m	4	
角度传感器 Angle Sensor	型号 Type	SICK	DBS36E-S3EK02000	
限位开关 Limit Switch	工作电压 Working voltage	V	0 ~ 48	

WDS 250 Serices

ZL-WDS-250-3000-750



行走电机参数
Parameters of walking motor

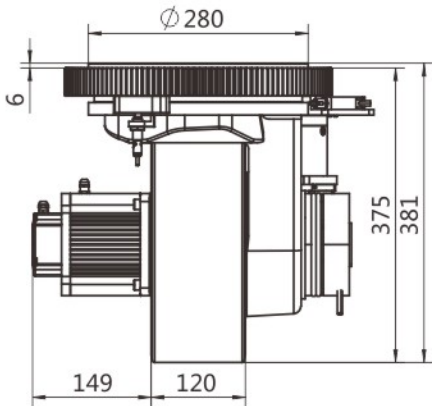
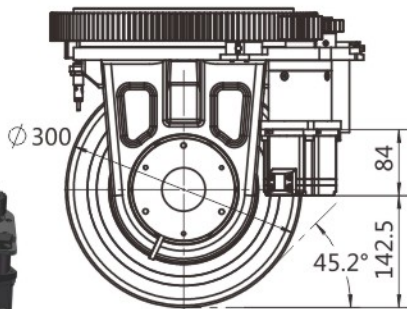
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电机功率 Motor power	W	3000		
电机电压 Motor voltage	V(DC)	48		
电机电流 Motor current	A	90		
电机转速 Motor speed	rpm	1500		
电机扭矩 Motor Torque	N-m	19		
防护等级 Protection level	IP	54		
电机编码器 Motor encoder		增量磁编 Magnetic coding		
行走减速比 Walking reducer		21	41	85
行走速度 Walking speed	m/min	55.41	28.4	13.85
舵轮输出扭矩 Output Torque	N-m	310	310	310
牵引力 Traction	N	1400	1800	2800
参考牵引重量 Reference Traction weight	Kg	2200	3000	4000
聚氨酯承重 Polyurethane load-bearing	Kg	1200		
橡胶承重 Rubber bearing	Kg	800		

牵引|减速机参数
Parameter table of traction reducer

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	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	
	减速器速比 Speed ratio of reducer	i	35	
	回转支承齿数 Slewing gear	100	齿数比5 : 1 Gear ratio 5 : 1	
	转向齿轮齿数 Number of steering gear teeth	20		
	总转向速比 Total steering ratio	i	175	
	编码器齿轮齿数 Number of teeth of encoder gear	Z	16	
制动器 Brake	工作电压 Working voltage	V(DC)	48	
	制动扭矩 Braking torque	N-m	4	
角度传感器 Angle Sensor	型号 Type	SICK	DBS36E-S3EK02000	
限位开关 Limit Switch	工作电压 Working voltage	V	0 ~ 48	

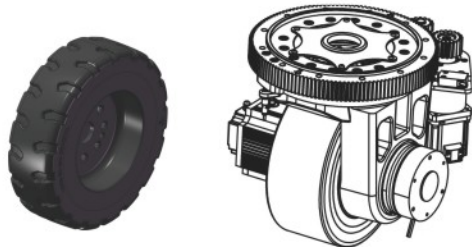
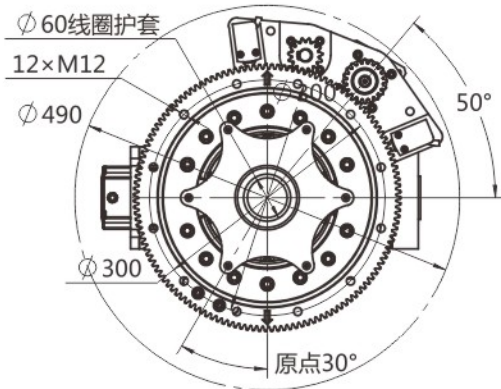
WDS 300 Serices

ZL-WDS-300-1500-750



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		增量磁编 Magnetic coding		
行走减速比 Walking reducer		48	64	80
行走速度 Walking speed	m/min	58.8	44.1	35.3
舵轮输出扭矩 Output Torque	N·m	206	274	343
牵引力 Traction	N	1373	1826	2286
参考牵引重量 Reference Traction weight	Kg	2000	2500	3000
聚氨酯承重 Polyurethane load-bearing	Kg	2200		
橡胶承重 Rubber bearing	Kg	1200		

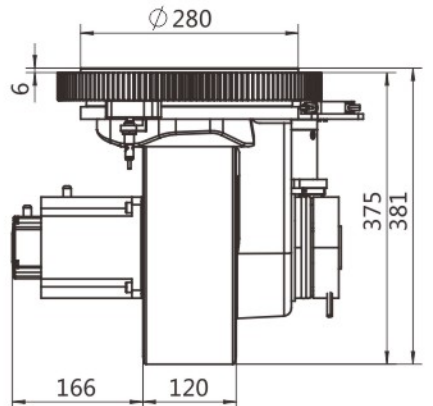
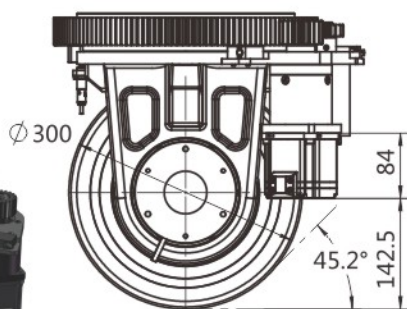


牵引|减速机参数
Parameter table of traction reducer

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	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	
	减速器速比 Speed ratio of reducer	i	35	
	回转支承齿数 Slewing gear	135	齿数比6.75 : 1 Gear ratio 6.75 : 1	
	转向齿轮齿数 Number of steering gear teeth	20		
	总转向速比 Total steering ratio	i	236.25	
	编码器齿轮齿数 Number of teeth of encoder gear	Z	15	
制动器 Brake	转向角度 Steering Angle	°	±140	
	工作电压 Working voltage	V(DC)	48	
	制动扭矩 Braking torque	N·m	16	
角度传感器 Angle Sensor	型号 Type	SICK	DBS36E-S3EK02000	
限位开关 Limit Switch	工作电压 Working voltage	V	0~48	

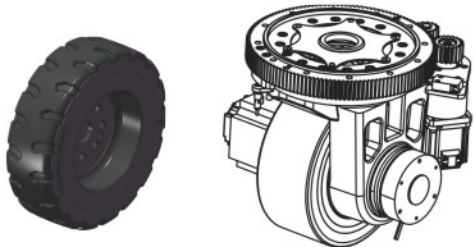
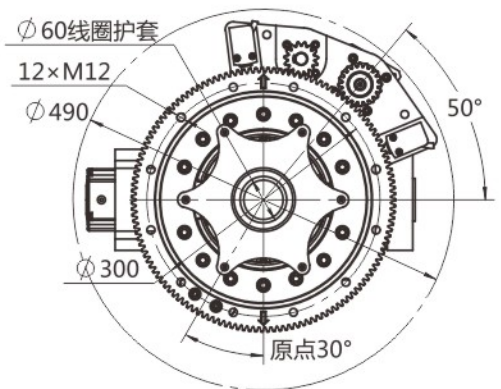
WDS 300 Serices

ZL-WDS-300-2300-750



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	2300		
电机电压 Motor voltage	V(DC)	48		
电机电流 Motor current	A	65		
电机转速 Motor speed	rpm	3000		
电机扭矩 Motor Torque	N·m	7.3		
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		48	64	80
行走速度 Walking speed	m/min	58.8	44.1	35.3
舵轮输出扭矩 Output Torque	N·m	315	420	525
牵引力 Traction	N	2100	2800	3500
参考牵引重量 Reference Traction weight	Kg	3150	3500	4200
聚氨酯承重 Polyurethane load-bearing	Kg	2200		
橡胶承重 Rubber bearing	Kg	1200		

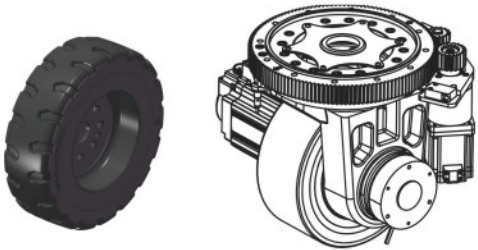
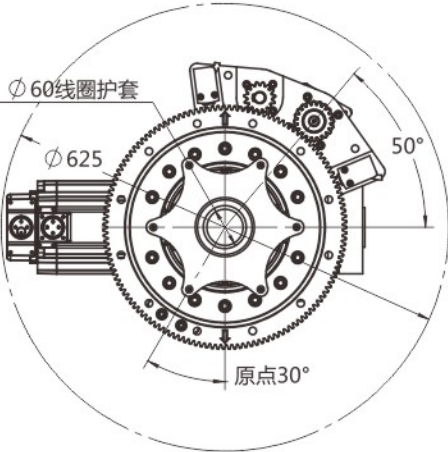
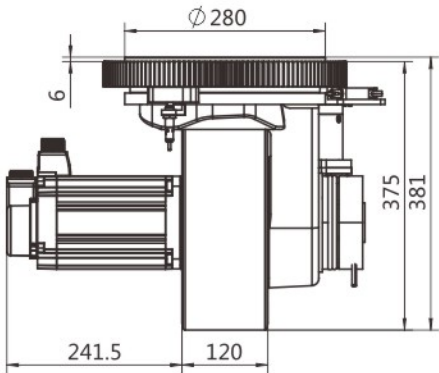
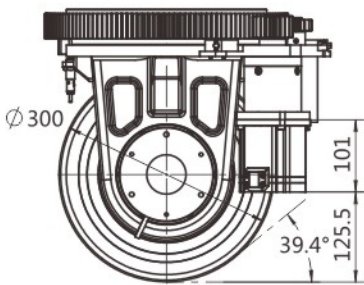


牵引|减速机参数
Parameter table of traction reducer

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	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	
	减速器速比 Speed ratio of reducer	i	35	
	回转支承齿数 Slewing gear	135	齿数比6.75 : 1 Gear ratio 6.75 : 1	
	转向齿轮齿数 Number of steering gear teeth	20		
	总转向速比 Total steering ratio	i	236.25	
	编码器齿轮齿数 Number of teeth of encoder gear	Z	15	
制动器 Brake	转向角度 Steering Angle	°	±140	
	工作电压 Working voltage	V(DC)	48	
	制动扭矩 Braking torque	N·m	16	
角度传感器 Angle Sensor	型号 Type	SICK	DBS36E-S3EK02000	
限位开关 Limit Switch	工作电压 Working voltage	V	0~48	

WDS 300 Serices

ZL-WDS-300-3000-1000



行走电机参数
Parameters of walking motor

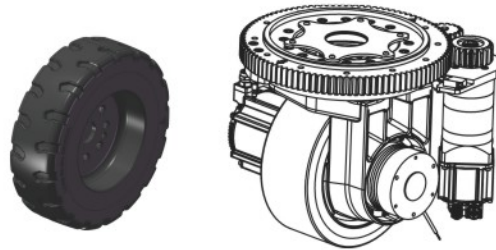
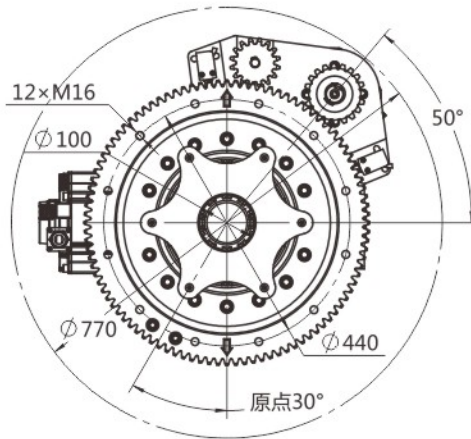
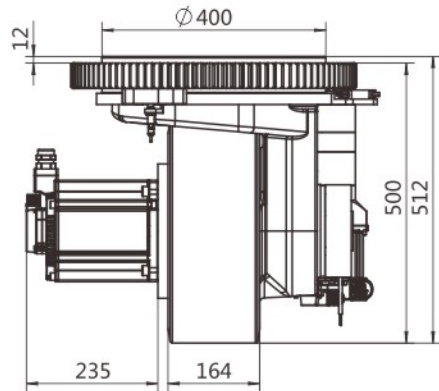
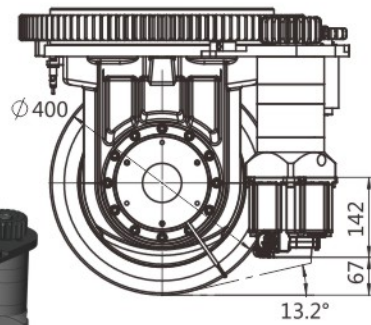
电机类型 Motor type		伺服电机 Servo motor		
电机功率 Motor power	W	3000		
电机电压 Motor voltage	V(DC)	48		
电机电流 Motor current	A	90		
电机转速 Motor speed	rpm	1500		
电机扭矩 Motor Torque	N·m	19		
防护等级 Protection level	IP	54		
电机编码器 Motor encoder		增量磁编 Magnetic coding		
行走减速比 Walking reducer		48	64	80
行走速度 Walking speed	m/min	29.4	22	17.66
舵轮输出扭矩 Output Torque	N·m	820	1090	1350
牵引力 Traction	N	5466	7266	9000
参考牵引重量 Reference Traction weight	Kg	7000	9500	11700
聚氨酯承重 Polyurethane load-bearing	Kg	2200		
橡胶承重 Rubber bearing	Kg	1200		

牵引|减速机参数
Parameter table of traction reducer

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	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	
	减速器速比 Speed ratio of reducer	i	35	
	回转支承齿数 Slewing gear	135	齿数比6.75 : 1 Gear ratio 6.75 : 1	
	转向齿轮齿数 Number of steering gear teeth	20		
	总转向速比 Total steering ratio	i	236.25	
制动器 Brake	编码器齿轮齿数 Number of teeth of encoder gear	Z	15	
	转向角度 Steering Angle	°	±140	
	工作电压 Working voltage	V(DC)	48	
	制动扭矩 Braking torque	N·m	16	
角度传感器 Angle Sensor	型号 Type	SICK	DBS36E-S3EK02000	
限位开关 Limit Switch	工作电压 Working voltage	V	0~48	

WDS 400 Serices

ZL-WDS-400-5500-2350



行走电机参数
Parameters of walking motor

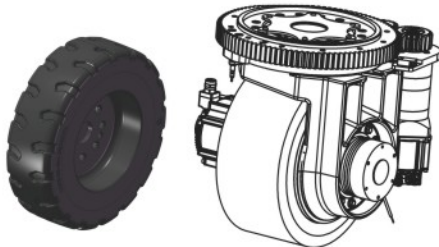
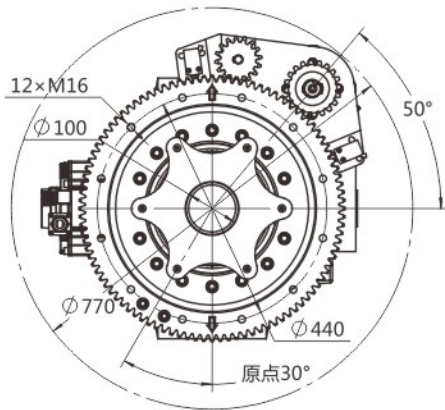
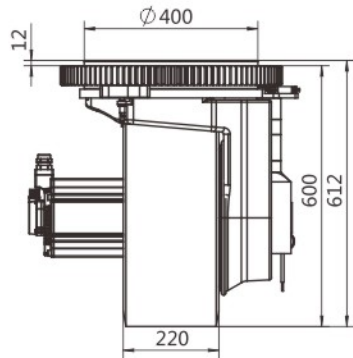
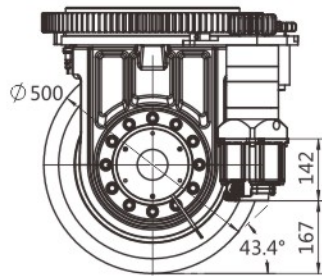
电机类型 Motor type		伺服电机 Servo motor		
电机功率 Motor power	W	5500		
电机电压 Motor voltage	V(DC)	72		
电机电流 Motor current	A	97		
电机转速 Motor speed	rpm	1500		
电机扭矩 Motor Torque	N·m	35		
防护等级 Protection level	IP	65		
电机编码器 Motor encoder		增量磁编 Magnetic coding		
行走减速比 Walking reducer		36	48	60
行走速度 Walking speed	m/min	52.3	39.2	31.4
舵轮输出扭矩 Output Torque	N·m	1150	1580	1974
牵引力 Traction	N	5750	7900	9870
参考牵引重量 Reference Traction weight	Kg	8400	9300	10800
聚氨酯承重 Polyurethane load-bearing	Kg	3600		
橡胶承重 Rubber bearing	Kg	2000		

牵引|减速机参数
Parameter table of traction reducer

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	2350	
	电机电压 Motor voltage	V(DC)	72	
	电机电流 Motor current	A	40	
	电机转速 Motor speed	rpm	3000	
	电机扭矩 Motor Torque	N·m	7.5	
	防护等级 Protection level	IP	65	
	电机编码器 Motor encoder		增量光编 Incremental Optical Weaving	
	减速器速比 Speed ratio of reducer	i	125	
	回转支承齿数 Slewing gear	100	齿数比5 : 1 Gear ratio 5 : 1	
	转向齿轮齿数 Number of steering gear teeth	20		
	总转向速比 Total steering ratio	i	625	
制动器 Brake	编码器齿轮齿数 Number of teeth of encoder gear	Z	16	
	转向角度 Steering Angle	°	±140	
	工作电压 Working voltage	V(DC)	48	
	制动扭矩 Braking torque	N·m	60	
角度传感器 Angle Sensor	型号 Type	SICK	DBS36E-S3EK02000	
限位开关 Limit Switch	工作电压 Working voltage	V	0~48	

WDS 500 Serices

ZL-WDS-500-7500-2350



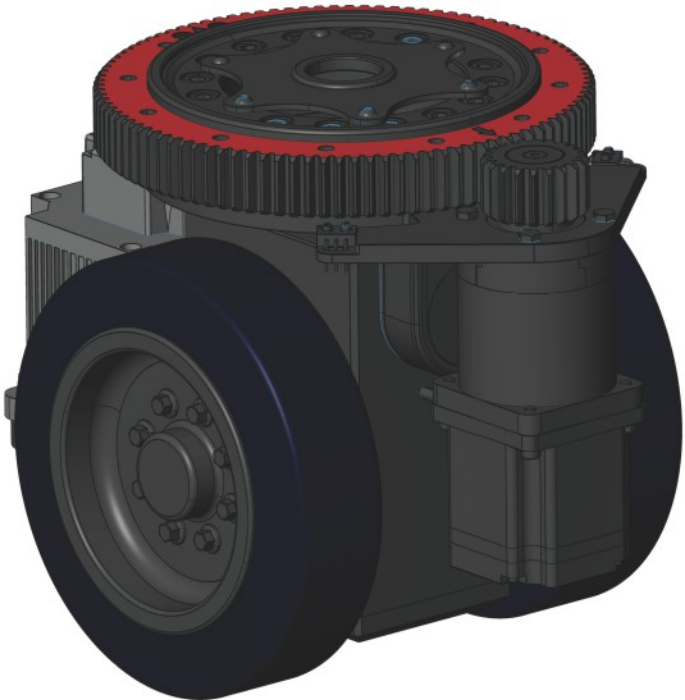
行走电机参数
Parameters of walking motor

电机类型 Motor type		伺服电机 Servo motor		
电机功率 Motor power	W	7500		
电机电压 Motor voltage	V(DC)	72		
电机电流 Motor current	A	131		
电机转速 Motor speed	rpm	2000		
电机扭矩 Motor Torque	N-m	36		
防护等级 Protection level	IP	65		
电机编码器 Motor encoder		增量光编 Incremental Optical Weaving		
行走减速比 Walking reducer		36	48	60
行走速度 Walking speed	m/min	87.2	65.4	52.3
舵轮输出扭矩 Output Torque	N-m	1200	1555	1944
牵引力 Traction	N	4800	6220	7776
参考牵引重量 Reference Traction weight	Kg	7200	8000	10000
聚氨酯承重 Polyurethane load-bearing	Kg	5700		
橡胶承重 Rubber bearing	Kg	3100		

牵引|减速机参数
Parameter table of traction reducer

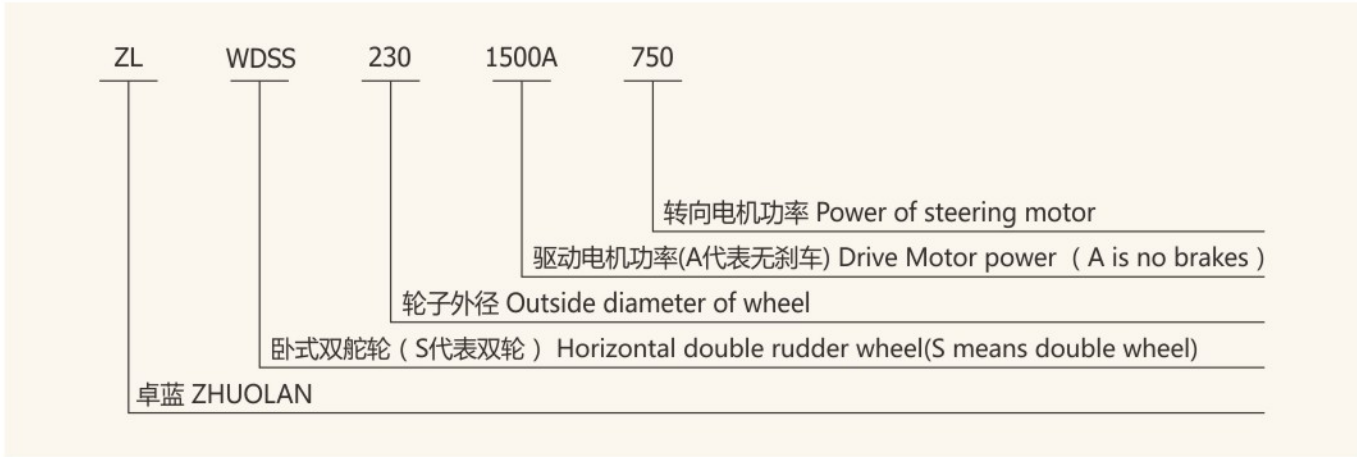
转向电机参数 Steering Motor parameters	电机类型 Motor type		伺服电机 Servo motor
	电机功率 Motor power	W	2350
	电机电压 Motor voltage	V(DC)	72
	电机电流 Motor current	A	40
	电机转速 Motor speed	rpm	3000
	电机扭矩 Motor Torque	N-m	7.5
	防护等级 Protection level	IP	65
	电机编码器 Motor encoder		增量光编 Incremental Optical Weaving
	减速器速比 Speed ratio of reducer	i	125
	回转支承齿数 Slewing gear	100	齿数比5 : 1 Gear ratio 5 : 1
	转向齿轮齿数 Number of steering gear teeth	20	
	总转向速比 Total steering ratio	i	625
	编码器齿轮齿数 Number of teeth of encoder gear	Z	16
	转向角度 Steering Angle	°	±140
制动器 Brake	工作电压 Working voltage	V(DC)	48
	制动扭矩 Braking torque	N-m	60
角度传感器 Angle Sensor	型号 Type	SICK	DBS36E-S3EK02000
限位开关 Limit Switch	工作电压 Working voltage	V	0 ~ 48

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



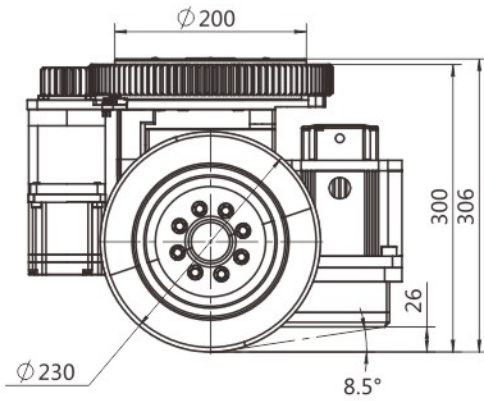
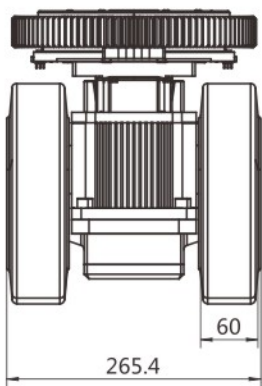
WDSS
Series

WDSS系列型号说明
WDSS series model description



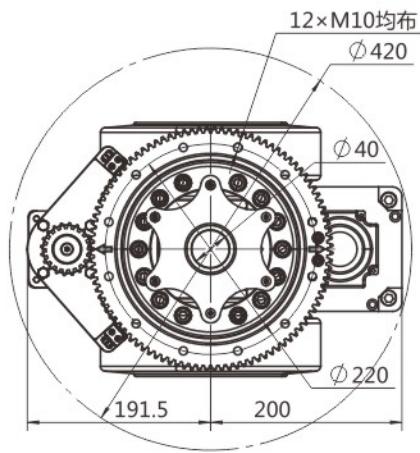
WDSS 230 Series

ZL-WDSS-230-1500A-750



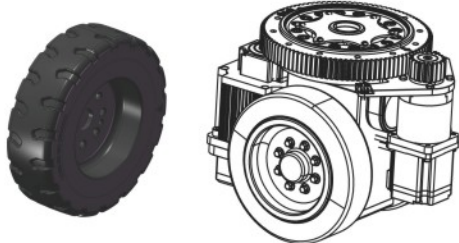
转向电机参数
Steering motor parameters

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

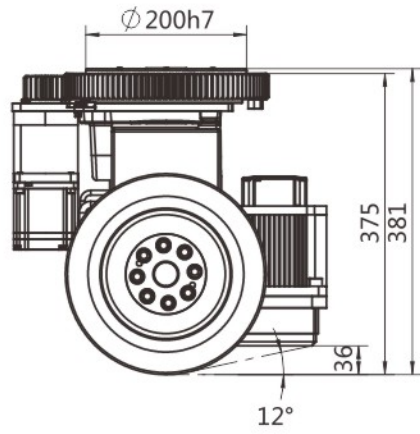
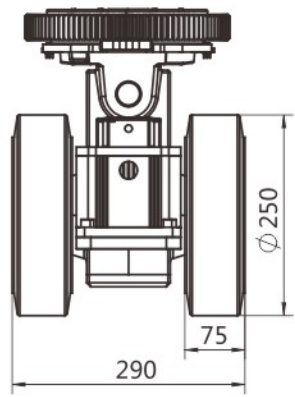


牵引减速机参数
Parameter table of traction reducer

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

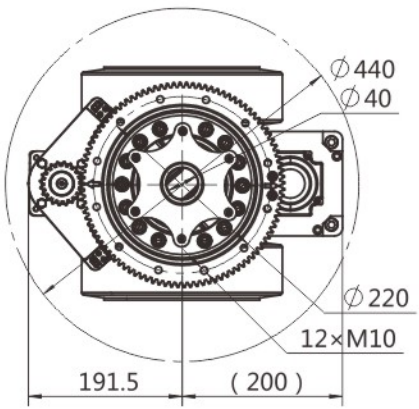
WDSS 250 Series

ZL-WDSS-250-1500A-750



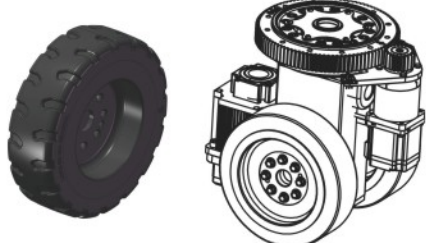
转向电机参数
Steering motor parameters

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
减速器速比 Speed ratio of reducer	i	35+(100 : 20)
电机扭矩 Motor torque	N·m	5.4
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

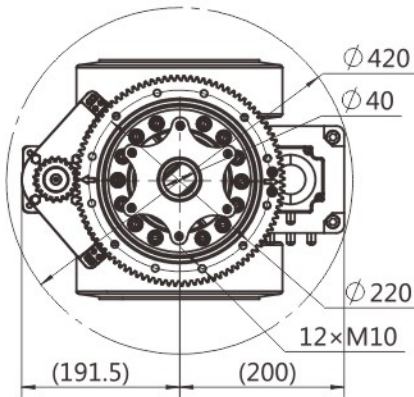
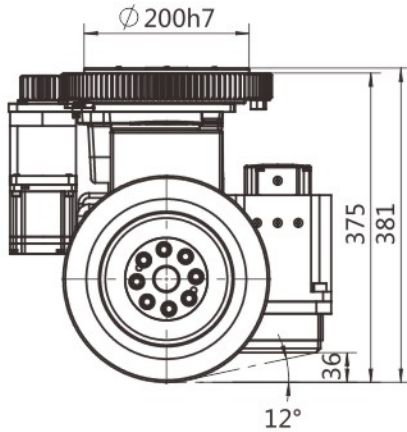
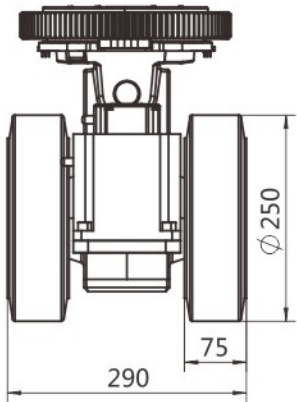


牵引减速机参数
Parameter table of traction reducer

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	2200	2200	2200	2200
橡胶承重 Rubber bearing	Kg	1400	1400	1400	1400
最大速度 Maximum velocity	M/min	98.1	78.5	56.1	39.3
牵引力 Traction	N	864	1080	1512	1706
牵引重量 Traction weight	参考 Reference	1296	1620	2268	2560

WDSS 250 Series

ZL-WDSS-250-2300A-750

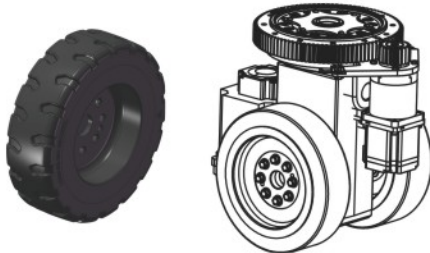


转向电机参数
Steering motor parameters

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	5.4
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	65
额定扭矩 Rated Torque	N·m	7.3
防护等级 Protection level	IP	54

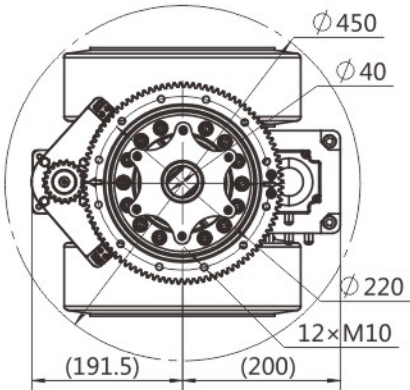
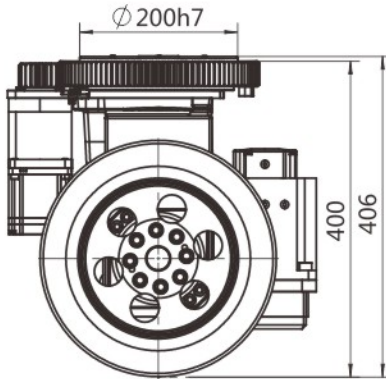
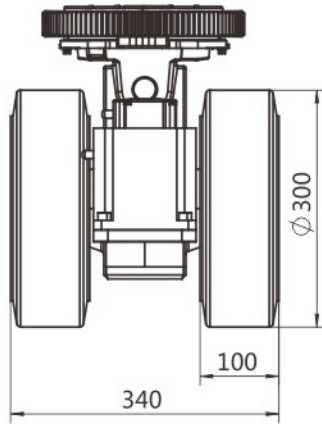


牵引减速机参数
Parameter table of traction reducer

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	2200	2200	2200	2200
橡胶承重 Rubber bearing	Kg	1400	1400	1400	1400
最大速度 Maximum velocity	M/min	98.1	78.5	56.1	39.3
牵引力 Traction	N	1261	1576.8	2208	1706
牵引重量 Traction weight	参考 Reference	1892	2365.2	3311	2560

WDSS 300 Series

ZL-WDSS-300-2300A-750

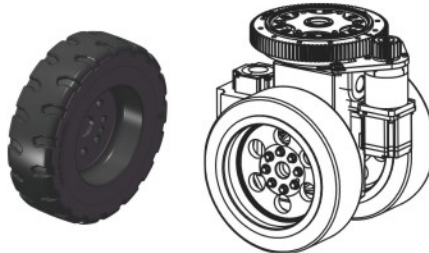


转向电机参数
Steering motor parameters

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	5.4
防护等级 Protection level	IP	54
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	65
额定扭矩 Rated Torque	N·m	7.3
防护等级 Protection level	IP	54



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	3600	3600	3600	3600
橡胶承重 Rubber bearing	Kg	2000	2000	2000	2000
最大速度 Maximum velocity	M/min	117.8	94.2	67.3	47.1
牵引力 Traction	N	1051	1314	1840	1422
牵引重量 Traction weight	参考 Reference	1577	1971	2759	2133

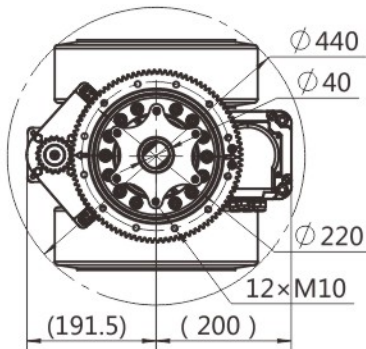
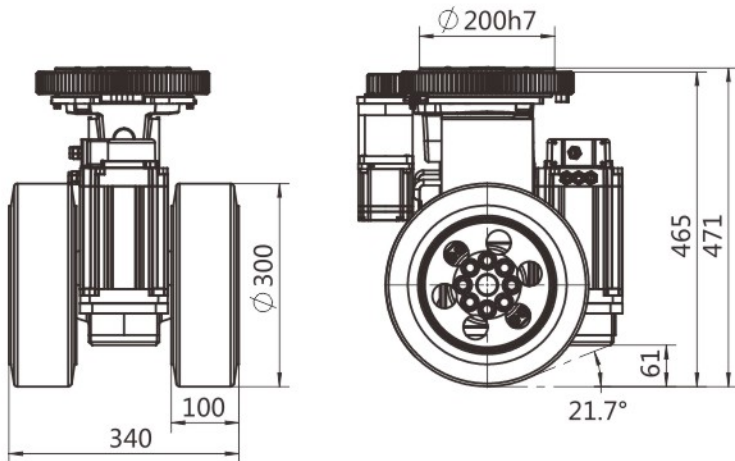
WDSS 300 Series

ZL-WDSS-300-3000A-750



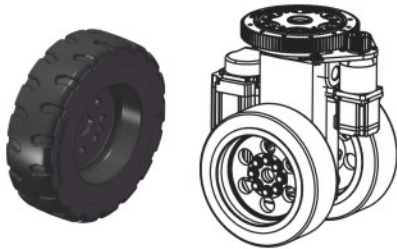
转向电机参数
Steering motor parameters

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	5.4
防护等级 Protection level	IP	54
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	3000
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	1500
电机电流 Motor current	A	80
额定扭矩 Rated Torque	N·m	19.1
防护等级 Protection level	IP	54



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	3600	3600	3600	3600
橡胶承重 Rubber bearing	Kg	2000	2000	2000	2000
最大速度 Maximum velocity	M/min	58.9	47.1	33.6	23.6
牵引力 Traction	N	2357.5	2946.9	4125.6	1218.9
牵引重量 Traction weight	参考 Reference	3536.2	4420.3	6188.4	1828.3

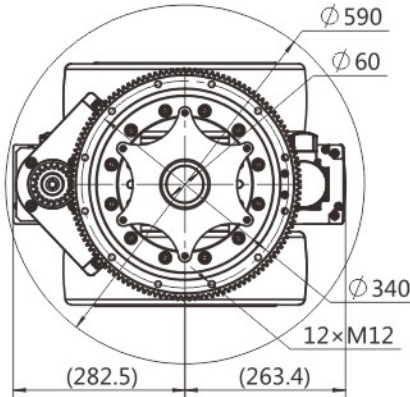
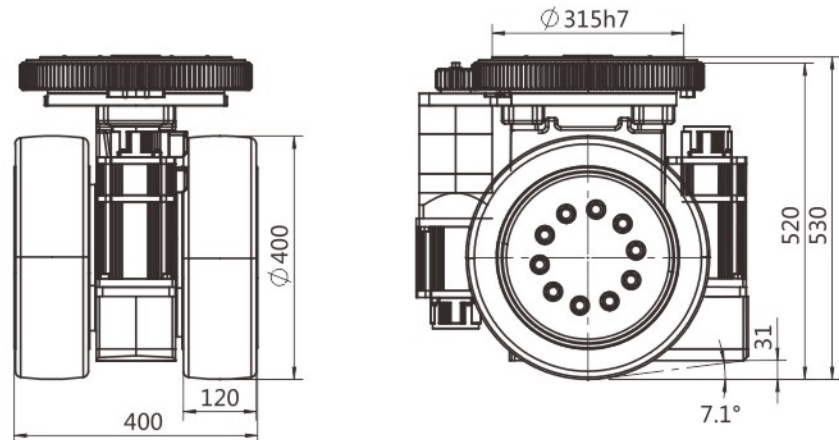
WDSS 400 Series

ZL-WDSS-400-3000A-750



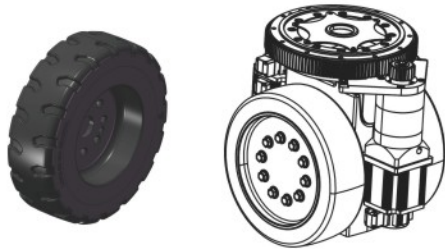
转向电机参数
Steering motor parameters

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	96
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	22.4
减速器速比 Speed ratio of reducer	i	35+(100 : 20)
电机扭矩 Motor torque	N·m	105
防护等级 Protection level	IP	54
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	3000
电机电压 Motor voltage	V	96
电机转速 Motor speed	rpm	1500
电机电流 Motor current	A	90
额定扭矩 Rated Torque	N·m	19
防护等级 Protection level	IP	65

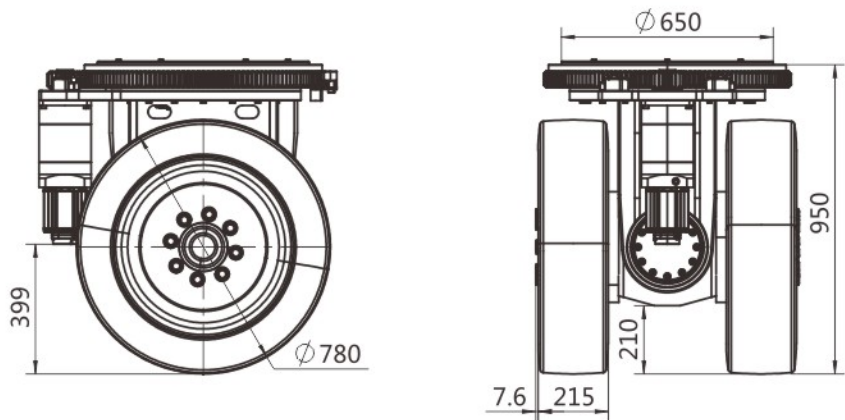


牵引减速机参数
Parameter table of traction reducer

类型 Type	X	行星减速机 Planetary reducer			
减速机速比 Speed ratio of reducer	i	36	45	48	60
减速机扭矩 Reducer torque	N·m	750	750	750	750
聚氨酯承重 Polyurethane load-bearing	Kg	5000	5000	5000	5000
橡胶承重 Rubber bearing	Kg	3000	3000	3000	3000
最大速度 Maximum velocity	M/min	52.3	41.9	39.3	31.4
牵引力 Traction	N	3078	3847.5	3375	3375
牵引重量 Traction weight	参考 Reference	4617	5771.3	5062.5	5062.5

WDSS 780 Series

ZL-WDSS-780-7500A-2350



转向电机参数
Steering motor parameters

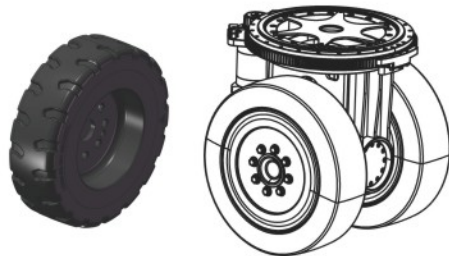
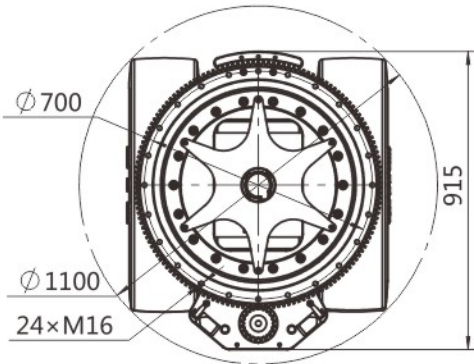
电机类型 TypeMotor type	DC	伺服电机 Servo motor
电机功率 Motor power	W	2350
电机电压 Motor voltage	V	72
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	41
减速器速比 Speed ratio of reducer	i	64+(150 : 20)
电机扭矩 Motor torque	N·m	264
防护等级 Protection level	IP	65
左右限位 Left and right limit	IO	D4V-8108SZ-N8104SZ-N
最大转向角度 Steering 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

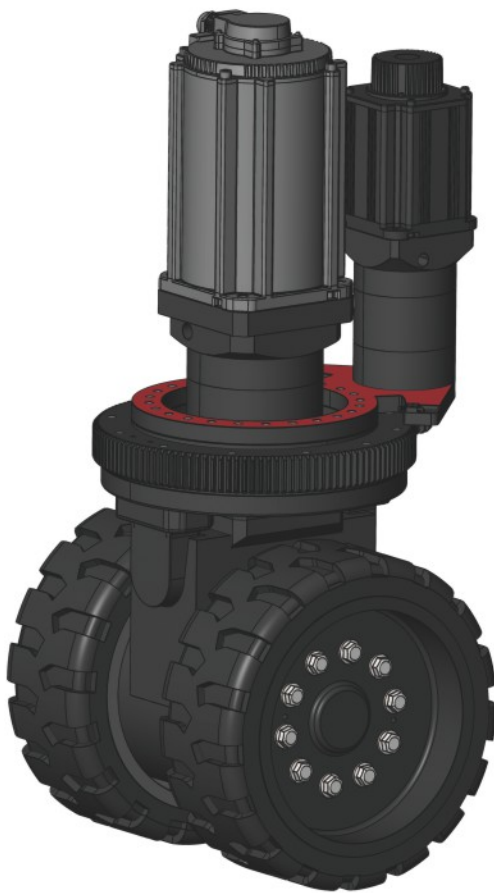
类型 Type	X	行星减速机 Planetary reducer		
减速机速比 Speed ratio of reducer	i	108	144	180
减速机扭矩 Reducer torque	N·m	(4430)	3560	2690
聚氨酯承重 Polyurethane load-bearing	Kg	11200	11200	11200
橡胶承重 Rubber bearing	Kg	6200	6200	6200
制动扭矩 Braking torque	N·m	4860	6480	8100
制动器扭矩 Brake torque	N·m	50	50	50
制动器电压 Brake voltage	V	DC24	DC24	DC24
最大速度 Maximum velocity	M/min	45.4	34.0	27.2
牵引力 Traction	N	9234	12312	12105
牵引重量 Traction weight	参考 Reference	13851	18468	18157.5



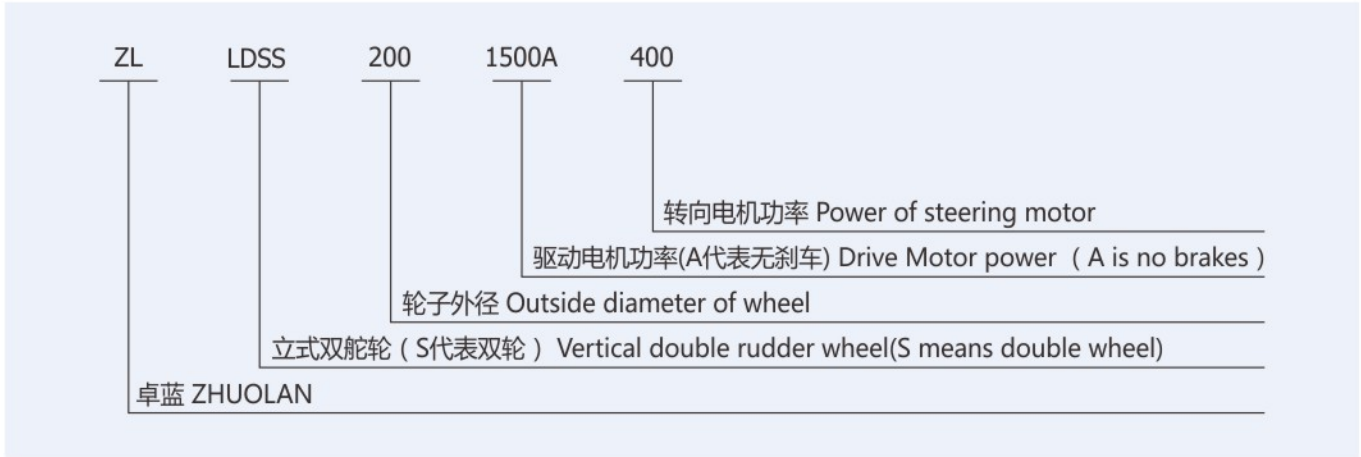
- LDSS 200
- LDSS 250
- LDSS 350
- LDSS 400

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

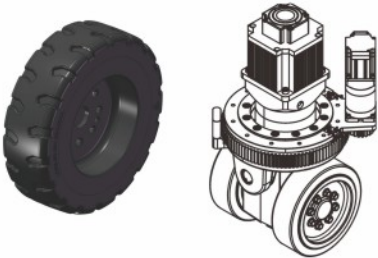
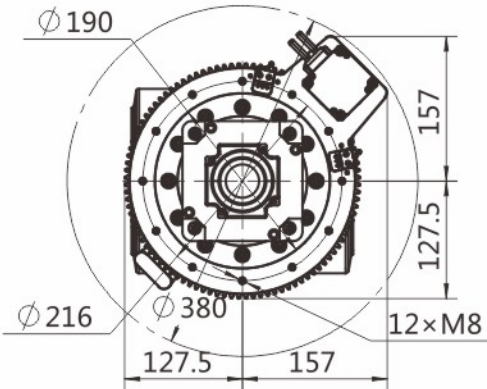
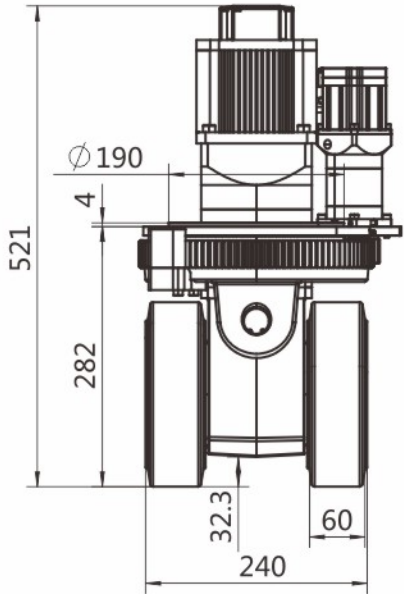
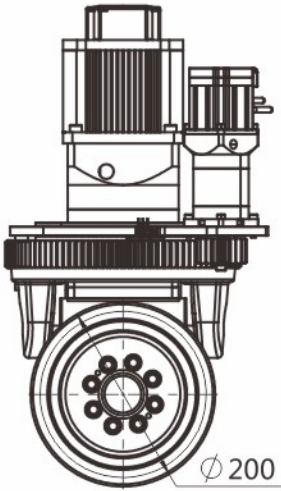
电机类型 TypeMotor type	DC	伺服电机 Servo motor
电机功率 Motor power	W	400
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	10.1
减速器速比 Speed ratio of reducer	i	35+(100 : 20)
电机扭矩 Motor torque	N·m	1.27
防护等级 Protection level	IP	65
左右限位 Left and right limit	IO	5A125/250VAC
最大转向角度 Steering Angle	°	±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	45.6	57	79.8	114
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-250-1500A-750

转向电机参数
Steering motor parameters

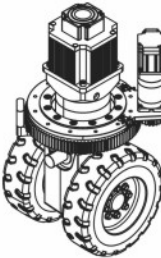
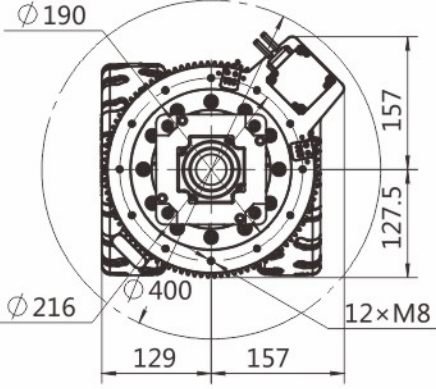
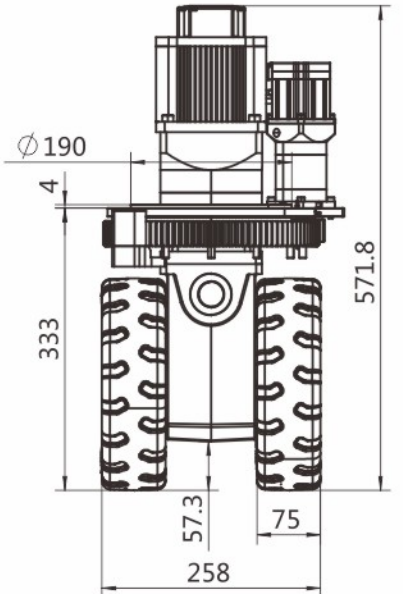
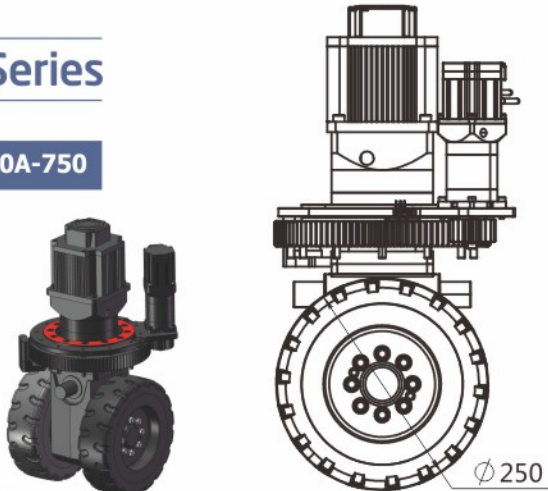
电机类型 TypeMotor type	DC	伺服电机 Servo motor
电机功率 Motor power	W	750
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	19
减速器速比 Speed ratio of reducer	i	35+(100 : 20)
电机扭矩 Motor torque	N·m	2.39
防护等级 Protection level	IP	65
左右限位 Left and right limit	IO	5A125/250VAC
最大转向角度 Steering Angle	°	±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	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	45.6	57	79.8	114
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	576	720	1008	1440
牵引重量 Traction weight	参考 Reference	864	1080	1512	2160



LDSS 250 Series

ZL-LDSS-250-2300A-750

转向电机参数
Steering motor parameters

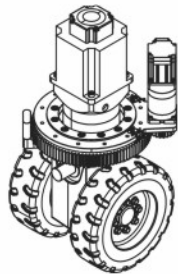
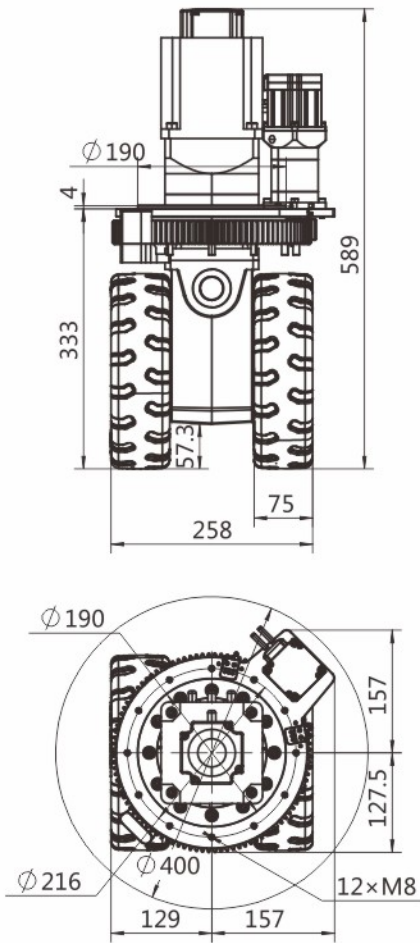
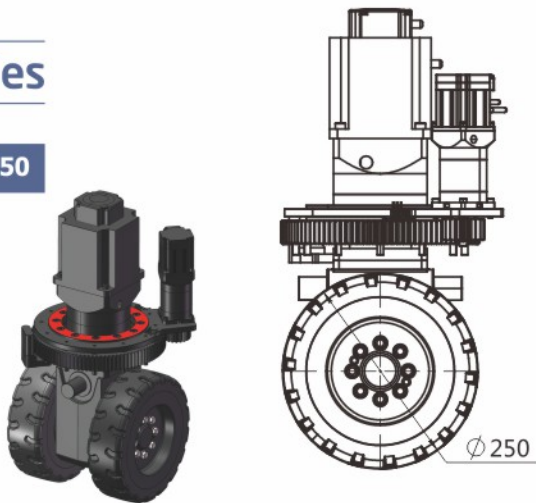
电机类型 TypeMotor type	DC	伺服电机 Servo motor
电机功率 Motor power	W	750
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	19
减速器速比 Speed ratio of reducer	i	35+(100 : 20)
电机扭矩 Motor torque	N·m	2.39
防护等级 Protection level	IP	65
左右限位 Left and right limit	IO	5A125/250VAC
最大转向角度 Steering Angle	°	±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	45.6	57	79.8	114
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

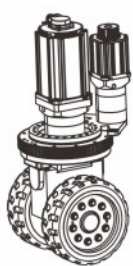
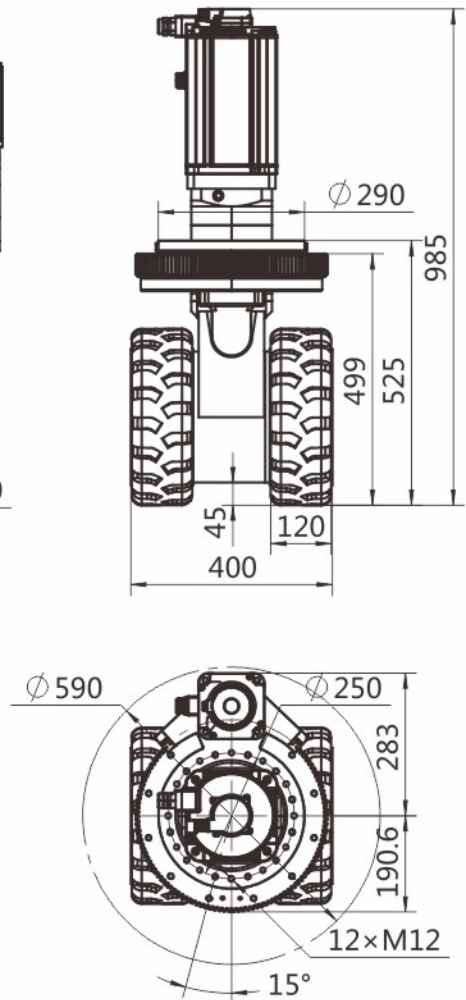
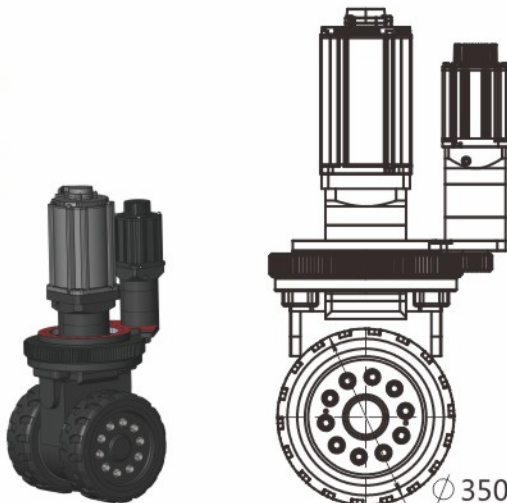
电机类型 TypeMotor type	DC	伺服电机 Servo motor
电机功率 Motor power	W	1500
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	37.4
减速器速比 Speed ratio of reducer	i	35+(100 : 20)
电机扭矩 Motor torque	N·m	7.3
防护等级 Protection level	IP	65
左右限位 Left and right limit	IO	5A125/250VAC
最大转向角度 Steering Angle	°	±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	5040
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	45.6	57	91.2	136.8
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	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

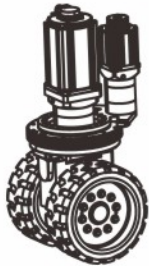
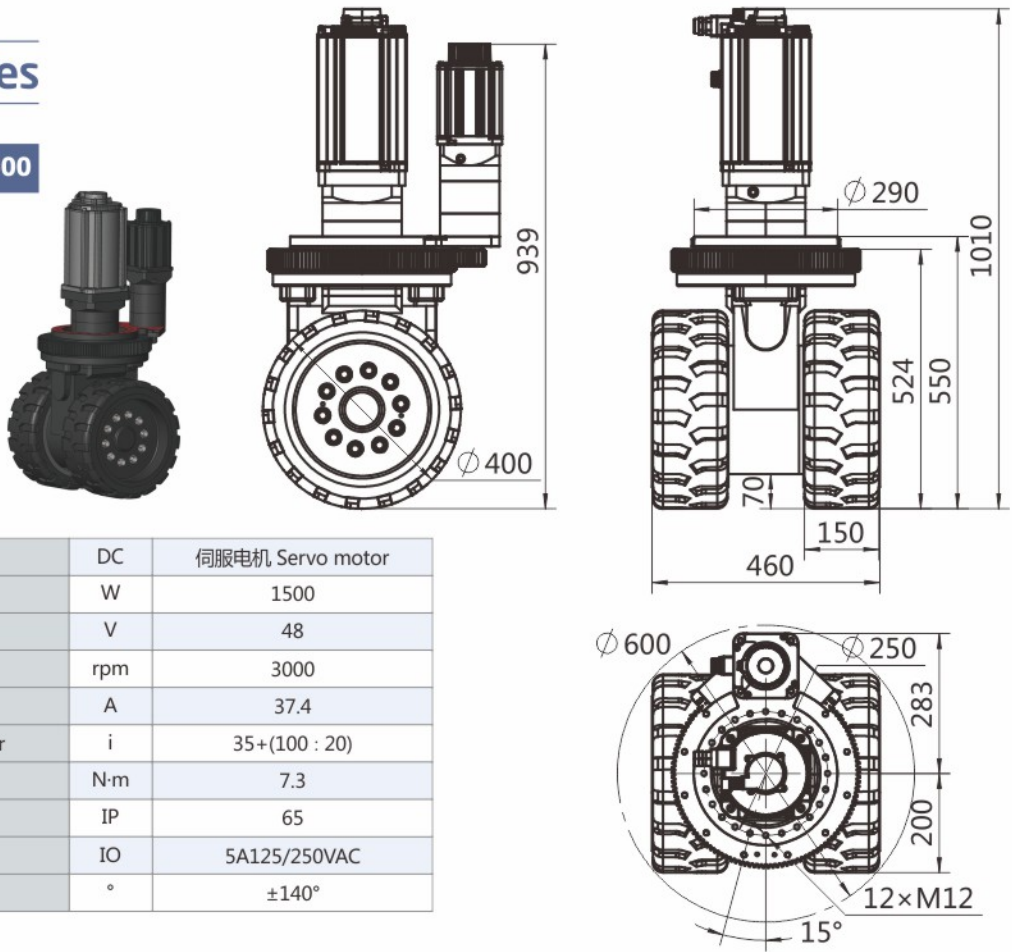
电机类型 TypeMotor type	DC	伺服电机 Servo motor
电机功率 Motor power	W	1500
电机电压 Motor voltage	V	48
电机转速 Motor speed	rpm	3000
电机电流 Motor current	A	37.4
减速器速比 Speed ratio of reducer	i	35+(100 : 20)
电机扭矩 Motor torque	N·m	7.3
防护等级 Protection level	IP	65
左右限位 Left and right limit	IO	5A125/250VAC
最大转向角度 Steering Angle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

牵引电机参数
Parameters of traction motor

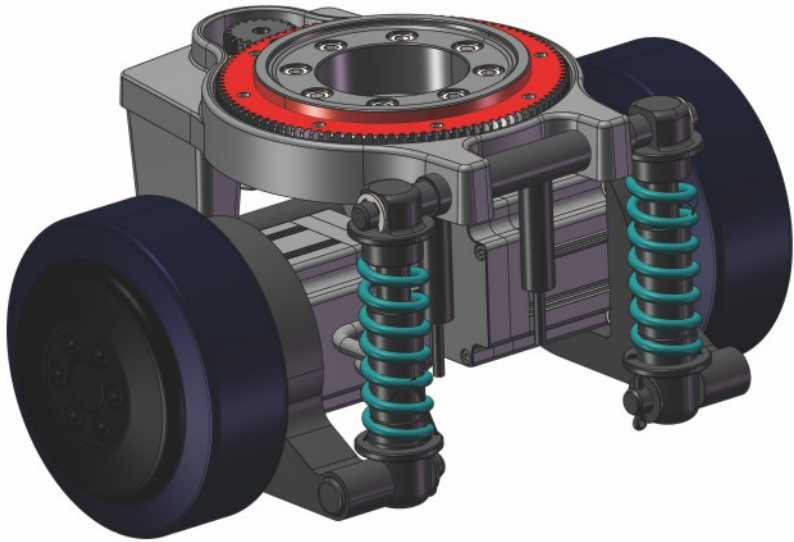
电机类型 Motor type	DC	伺服电机 Servo motor
电机功率 Motor power	W	7500
电机电压 Motor voltage	V	72
电机转速 Motor speed	rpm	2000
电机电流 Motor current	A	135±10%
额定扭矩 Rated Torque	N·m	35
防护等级 Protection level	IP	65

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	5040
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	45.6	57	91.2	136.8
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	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



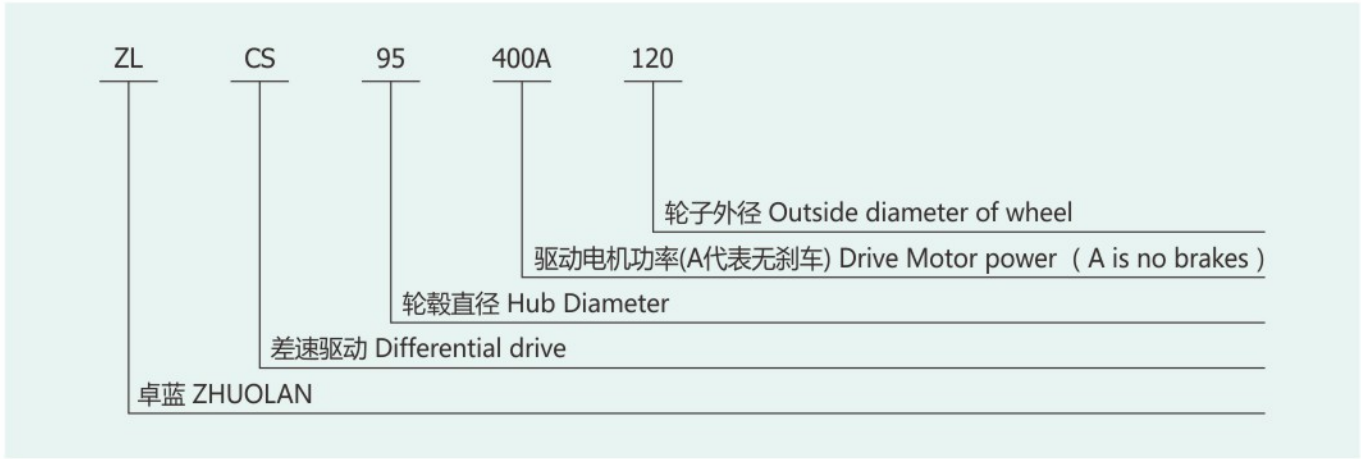
- CS 95
- CS 125



CS

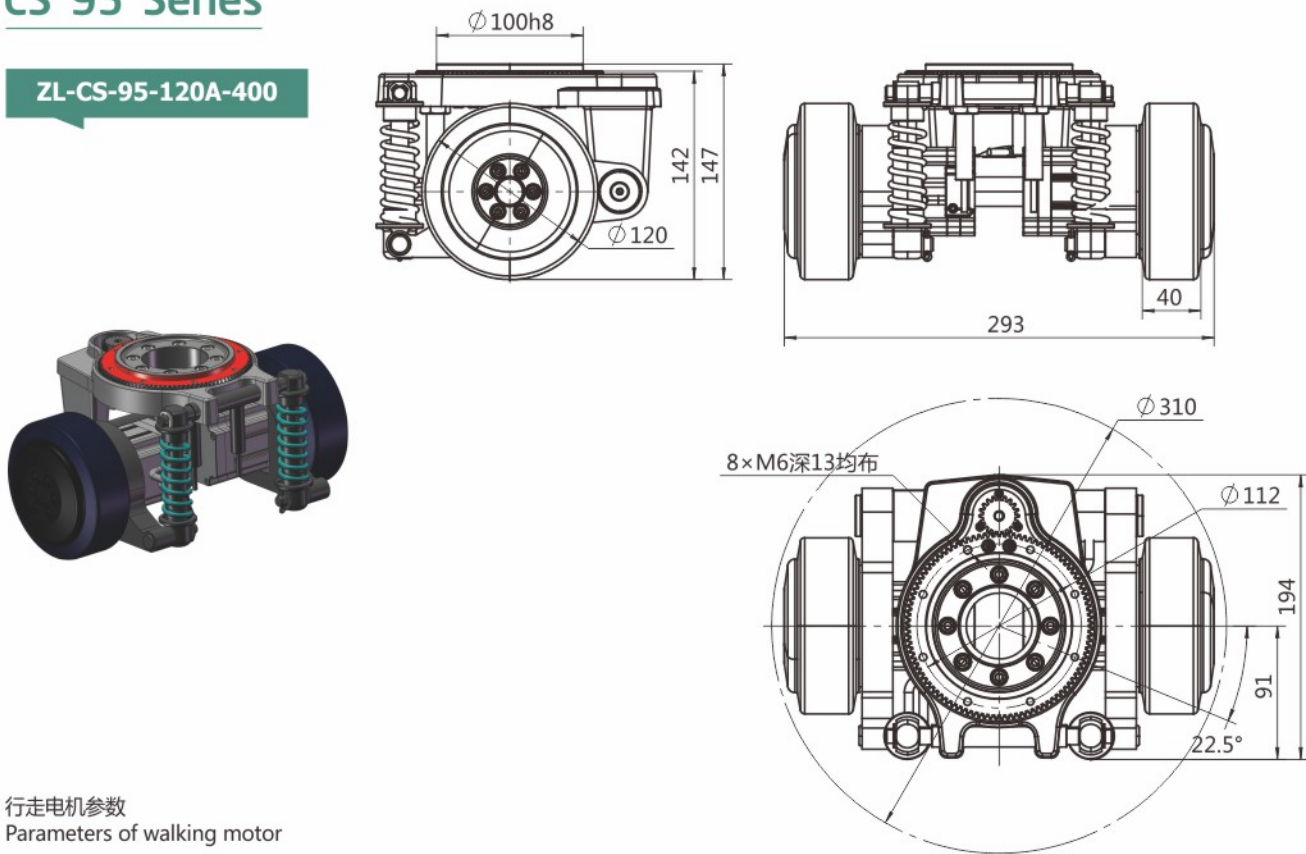
Series

CS系列型号说明
CS series model description



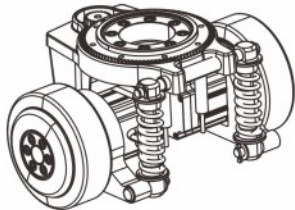
CS 95 Series

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	203.2	254	300	330	330	
参考牵引重量 Reference Traction weight	386.1	482.6	570	627	627	
聚氨酯承重 Polyurethane load-bearing	Kg	720				
聚氨酯硬度 Polyurethane hardness	A	90±5				
聚氨酯颜色 Polyurethane color		深蓝色 Dark Blue				

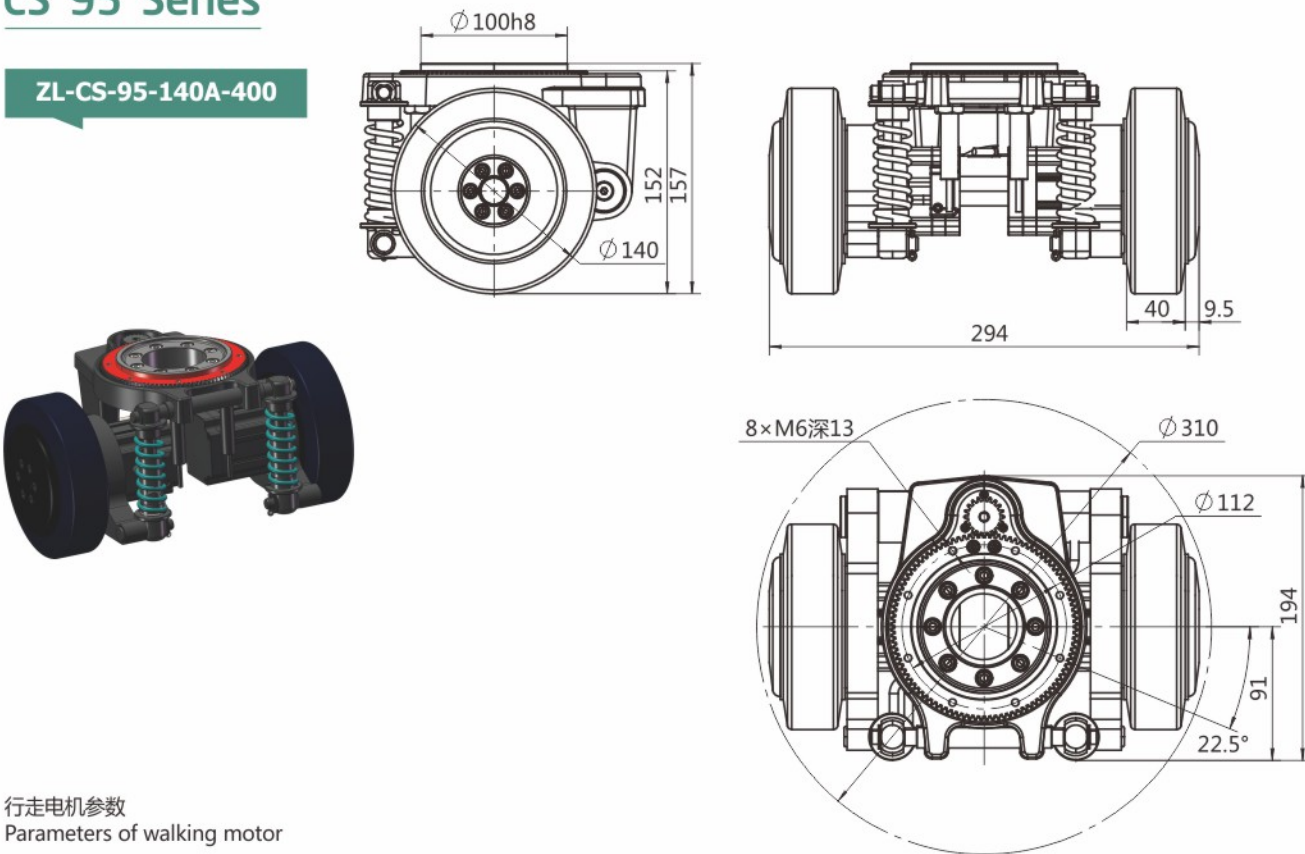


转向参数
Steering parameter

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	

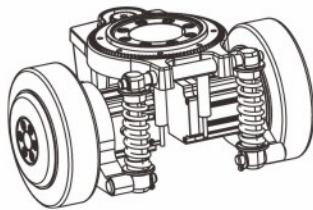
CS 95 Series

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	203.2	254	300	330	330	
参考牵引重量 Reference Traction weight	386.1	482.6	570	627	627	
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				

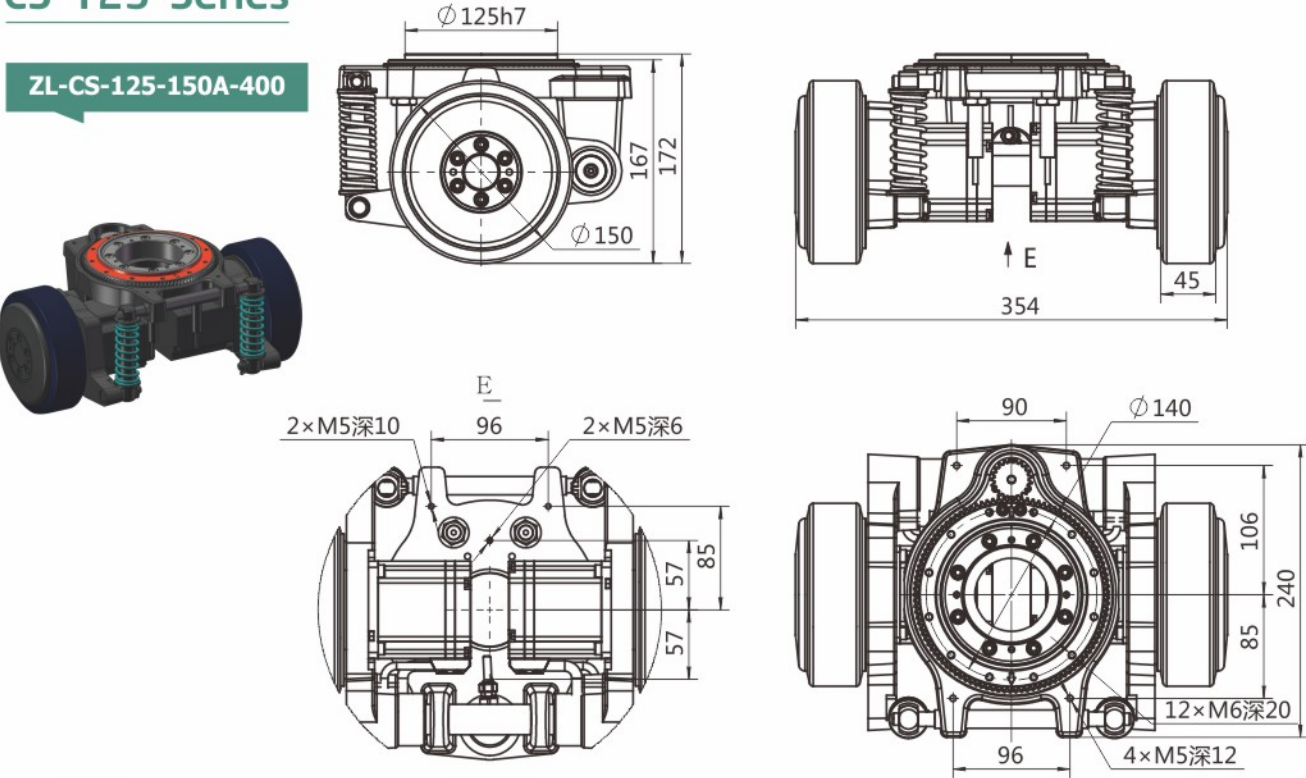


转向参数
Steering parameter

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	

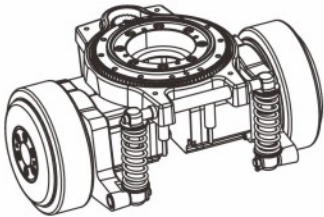
CS 125 Series

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	30	30	30	33	33
牵引力 Traction	382.4	478	669.2	836.5	1055
参考牵引重量 Reference Traction weight	726.6	908.2	1271.5	1589.4	2004.5
聚氨酯承重 Polyurethane load-bearing	Kg	960			
聚氨酯硬度 Polyurethane hardness	A	90±5			
聚氨酯颜色 Polyurethane color		深蓝色 Dark Blue			

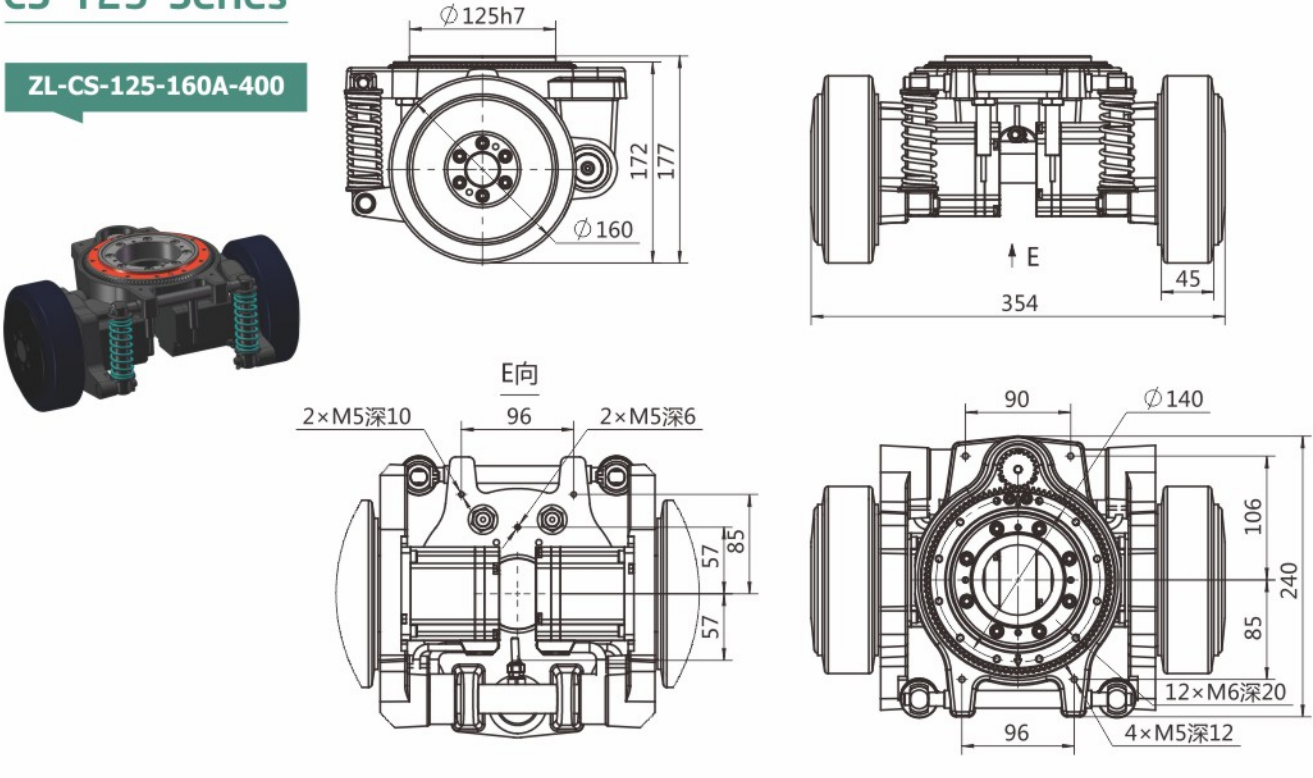


转向参数
Steering parameter

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	

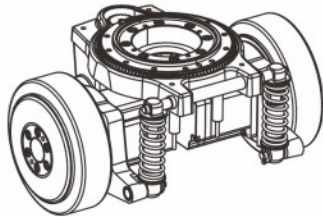
CS 125 Series

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	30	30	30	33	33
牵引力 Traction	382.4	478	669.2	836.5	1055
参考牵引重量 Reference Traction weight	726.6	908.2	1271.5	1589.4	2004.5
聚氨酯承重 Polyurethane load-bearing	Kg	1000			
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	

- SJX 350
- SJX 468
- SJX 520

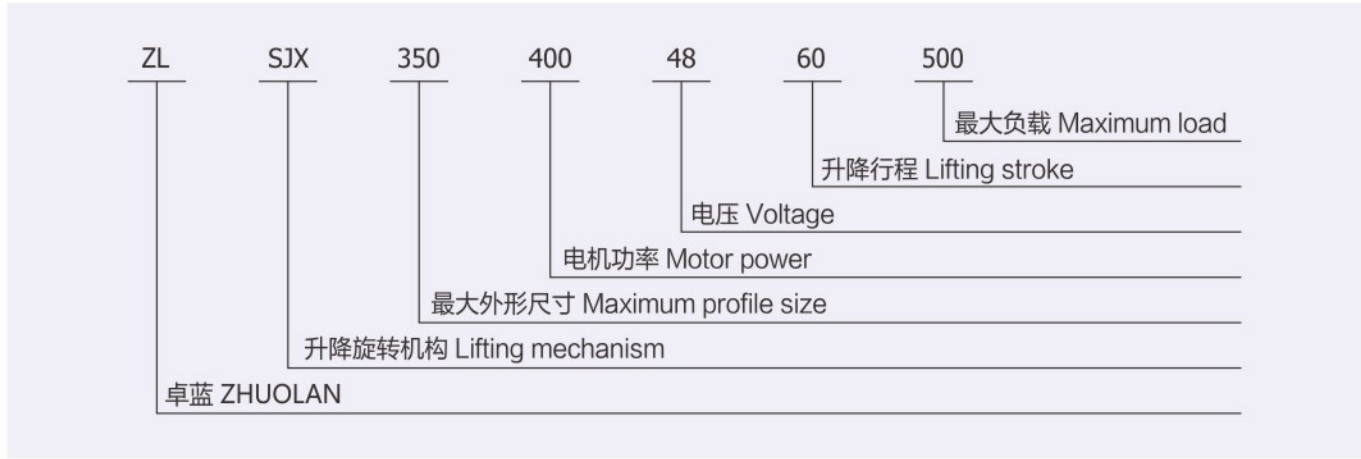


SJX

Series

SJX系列型号说明

SJX series model description



SJX 350 Series

ZL-SJX-350-400-48-60-500



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

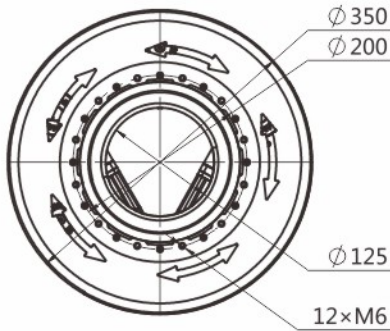
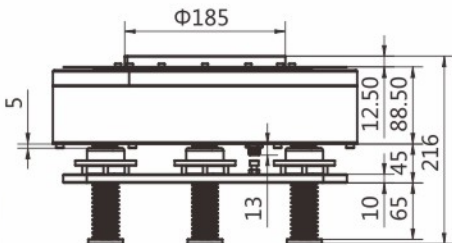
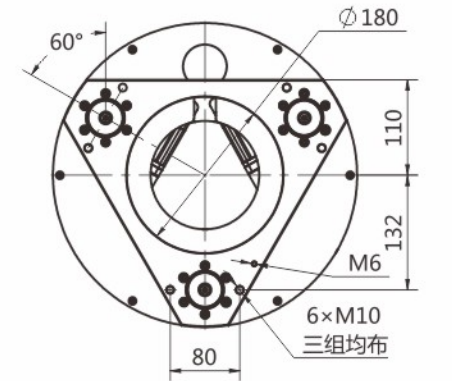
负载 Load	Kg	500
电机功率 Motor power	W	400
电机电压 Motor voltage	V	48
电机转速 Motor speed	Rpm	3000
电机电流 Motor current	A	10.1
额定扭矩 Rated Torque	N·m	1.27
防护等级 Protection level	IP	54

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 30



SJX 468 Serices

ZL-SJX-468-600-48-50-1000



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	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

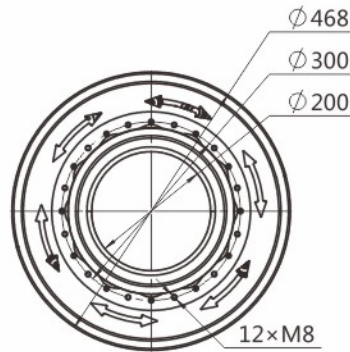
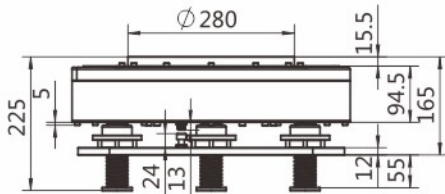
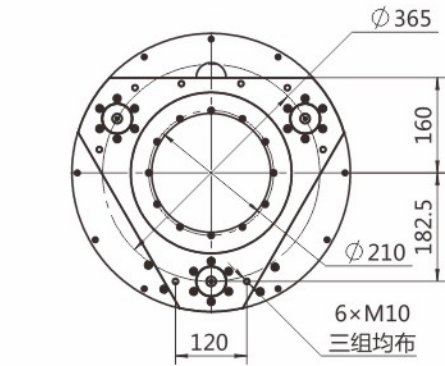
负载 Load	Kg	1000
电机功率 Motor power	W	600
电机电压 Motor voltage	V	48
电机转速 Motor speed	Rpm	3000
电机电流 Motor current	A	18
额定扭矩 Rated Torque	N-m	1.91
防护等级 Protection level	IP	65

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 58



SJX 520 Serices

ZL-SJX-520-750-48-50-1500



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	6
限位传感器 Limit Sensor	SICK	常开NPN-24V Regular opening NPN-24V

电机参数
Motor parameters

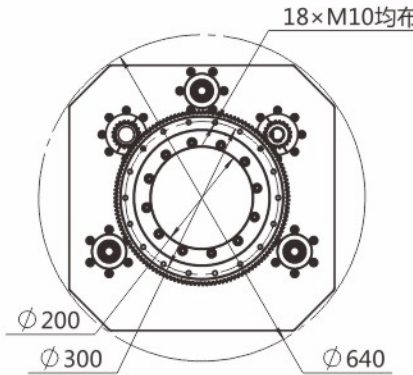
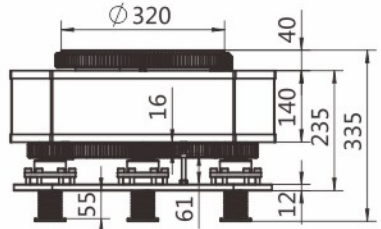
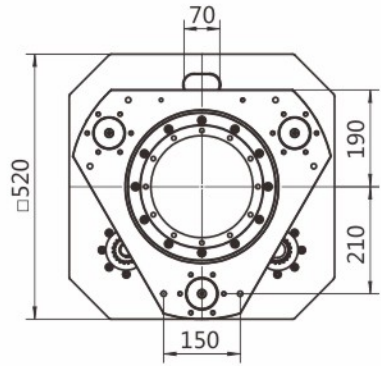
负载 Load	Kg	2000
电机功率 Motor power	W	1260
电机电压 Motor voltage	V	48
电机转速 Motor speed	Rpm	3000
电机电流 Motor current	A	32
额定扭矩 Rated Torque	N-m	4
防护等级 Protection level	IP	65

旋转参数
Rotation parameter

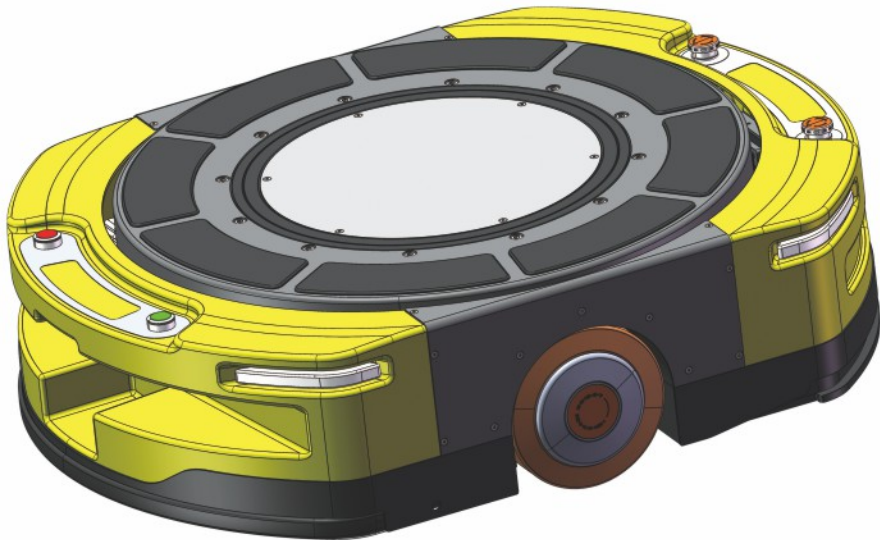
类型 Type	X	行星减速机 Planetary reducer
减速机速比 Speed ratio of reducer	i	30
传动齿比 Gear ratio	i	6.75
旋转位移 Rotation Displacement	90/转90/rpm	1.69
旋转90° Rotate 90°	s	1.01
旋转原点 Origin of rotation	SICK	常开NPN-24V Regular opening NPN-24V

其它
Others

减速机润滑 Reducer lubrication	润滑脂 Grease	-20° ~ 200°
自重 Self weight	Kg	约 83

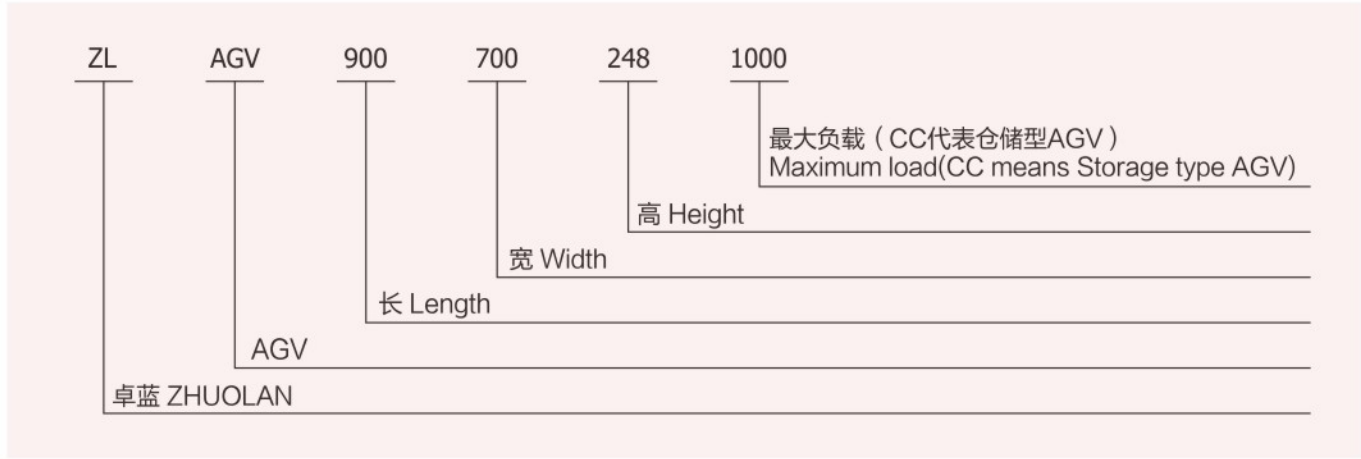


AGV-CC



AGV-CC Series

AGV系列型号说明
AGV series model description



AGV-CC Series

ZL-AGV-900-700-248-1000



牵引电机参数
Parameters of traction motor

负载 Load	Kg	1000
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
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
Parameters of traction reducer

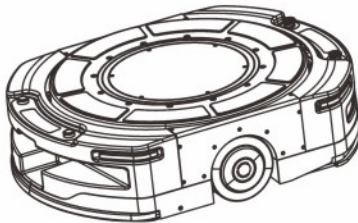
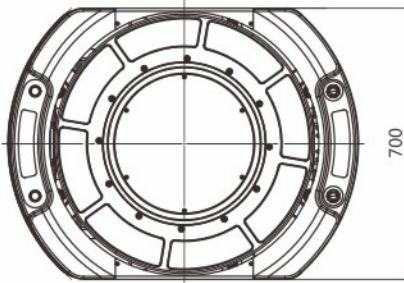
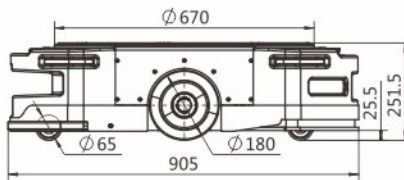
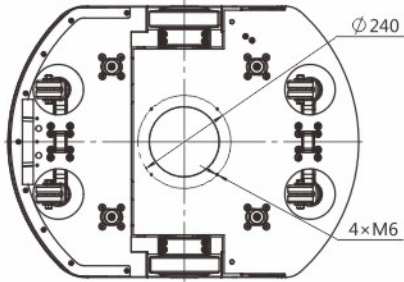
类型 Type	X	行星减速机 Planetary reducer
减速机速比 Speed ratio of reducer	i	16
减速机扭矩 Reducer torque	N-m	105
轮径 Wheel diameter	mm	180
聚氨酯承重 Polyurethane load-bearing	Kg	800
橡胶承重 Rubber bearing	Kg	750
最大速度 Maximum velocity	M/min	106
牵引力 Traction	N	404
牵引承重 Traction load	参考 Reference	1009

升降旋转电机参数
Parameters of up-and-down Rotary Motor

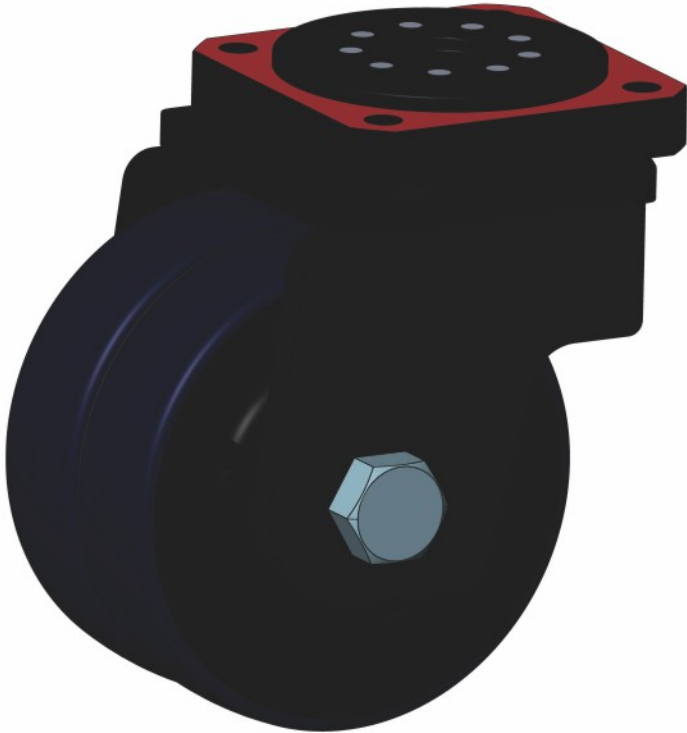
电机功率 Motor power	W	600
电机电压 Motor voltage	V	48
电机转速 Motor speed	Rpm	3000
电机电流 Motor current	A	18
额定扭矩 Rated Torque	N-m	1.91
升降速比 Up-down ratio	I	1 : 40
升降速度 Up and down speed	mm/s	7.5
旋转速比 Rotational speed ratio	i	20+(234 : 18)
旋转位移 Rotation Displacement	90°	60转 60rpm
下限位 Lower bound	SICK	常开NPN-24V Regular opening NPN-24V
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 58



CZSS



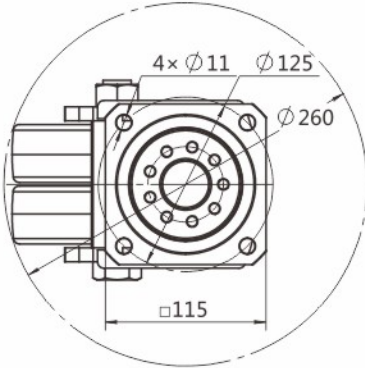
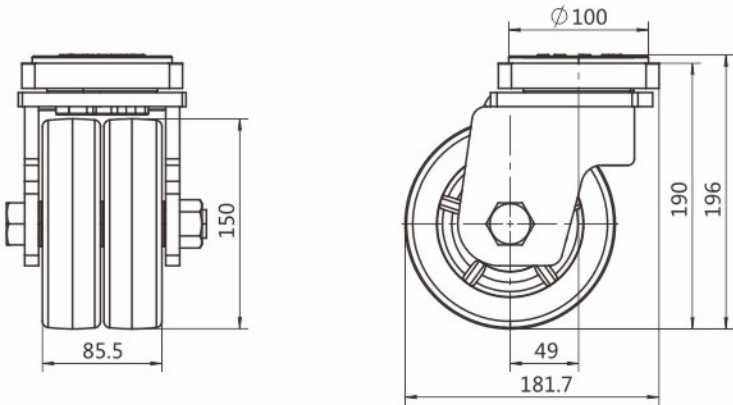
CZSS
Series

CZSS系列型号说明
CZSS series model description

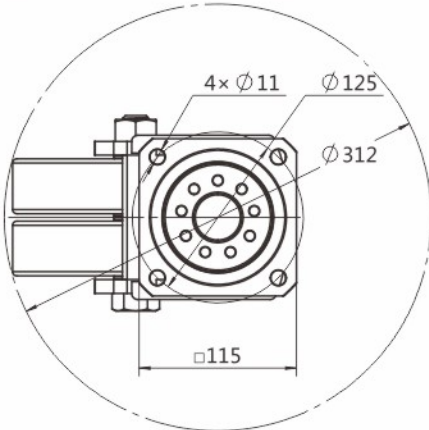
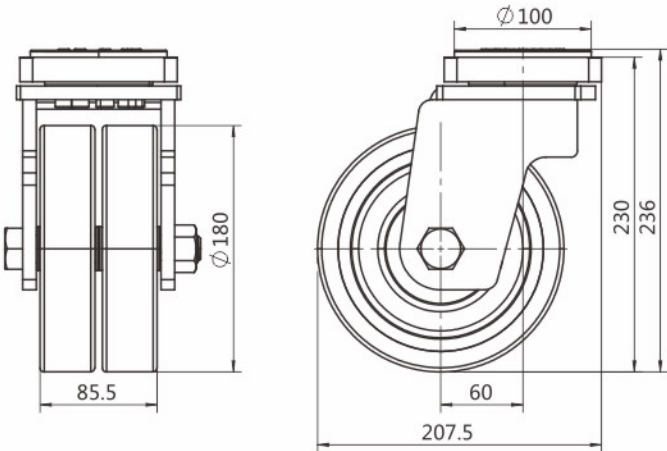
ZL	CZSS	150	JC	196	86	1000	最大负载 Maximum load
							轮子宽度 Wheel width
							安装高度 Installation Height
							交叉滚子轴承 Cross roller bearing
							轮子外径 Outside diameter of wheel
							承重万向脚轮 (SS代表双轮) Load bearing caster (SS means double wheel)
							卓蓝 ZHUOLAN

CZSS Series

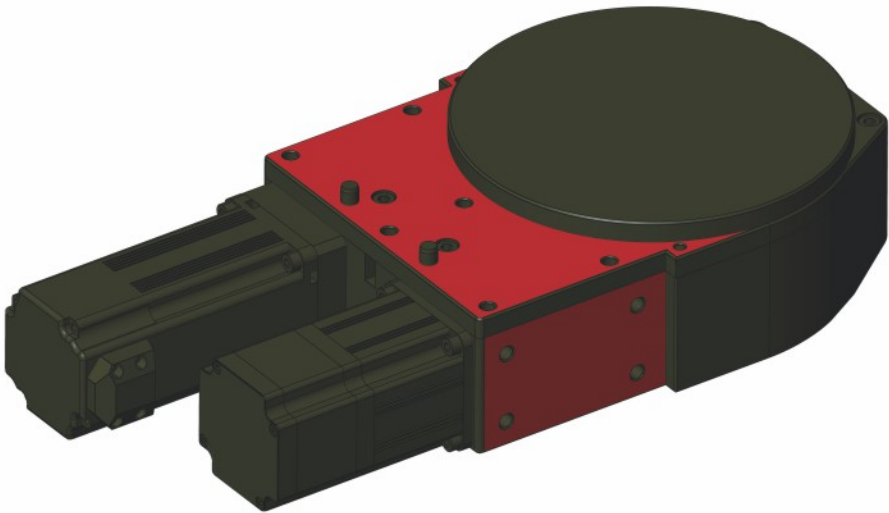
ZL-CZSS-150-JC-196-86-1000



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

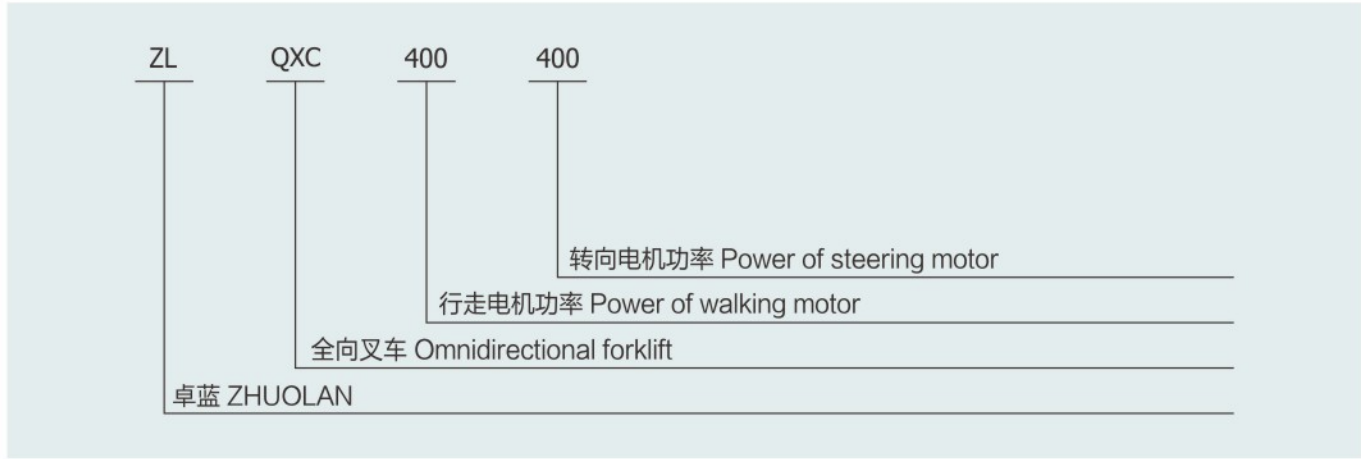


QXC



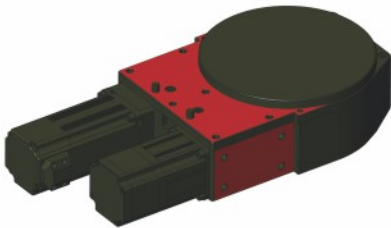
QXC Series

QXC系列型号说明
QXC series model description



QXC Series

ZL-QXC-400-400



行走电机参数
Parameters of walking motor

电机类型 Motor type		伺服电机 Servo motor
电机额定功率 Rated power of motor	W	400
电机额定电压 Rated voltage of motor	V(DC)	48
电机额定电流 Rated current of motor	A	11.95
电机额定转速 Rated speed of motor	rpm	3000
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 Motor encoder		磁编 Magnetic coding
电机线长 Motor length	m	2
行走减速机 Walking reducer		7.5
行走速度 Walking speed	m/min	94.2
输出扭矩 Output Torque	N·m	30
牵引力 Traction	N	127
参考牵引重量 Reference Traction weight	Kg	400
聚氨酯承重 Polyurethane load-bearing	Kg	400
电机制动器电压 Motor brake voltage	V(DC)	24
制动器静扭矩 Static Torque of brake	N·m	≥1.5

转向电机参数
Steering Motor parameters

电机类型 Motor type		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(DC)	48
电机额定电流 Rated current of motor	A	12.5
电机额定转速 Rated speed of motor	rpm	3000
电机额定扭矩 Rated Torque of motor	N·m	1.27
防护等级 Protection level	IP	65
电机编码器 Motor encoder type		绝对值 Absolute value
电机线长 Motor length	m	2
总转向速比 Total steering ratio	i	75
转向角度 Steering Angle	°	360

