



It Is A Manufacture Intergrating R&D,Production  
Processing,Distribution And After-Sales

**AGV RGV Intelligent Dynamic Gear**

**LDSS**



**WIDE RANGE**  
of Products

**STRONG**  
Economic Foundation

**COMPLETE**  
Technology & Staffing

## **LDSS Series Reducer characteristics:**

1,Helical gear transmission ,carburizing and quenching treatment ,tooth profile modification treatment, to ensure low noise and smooth operation .The bearing capacity is 20% higher than that of straight teeth.

2,Integral output shaft and bearing support at both ends of planetary wheel to achieve high precision and strength.

3,The backlash clearance is small ,and the precision single stage can achieve less than 3 arc min.

# Product features

Precision planetary gear reducer is a new generation of practical products independently developed by our company, which has the following main characteristics.

## 1,Low noise

below 65db

## 2,High input speed

Up to 5000RPM

## 3,Low Backlash

One stage within 3 arc minutes, two stage with 5 arc/min

## 4,High torque

Higher than conventional planetary gearbox

## 5,High efficiency

One Stage is exceed97%,Two stage is exceed 95%

## 6,High stability

Using high-strength steel alloy material .Not just hardening on gear surface, but hardening entire gear to insure the gear life time and maintain high accuracy.

# Product Application

**Precision planetary gear reducer is widely used in the following fields**

01 , Aerospace ,military industries

02, Medical health care, electronic information technology industry.

03,Industrial robot, production automation ,CNC machine tool manufacturing industry

04, Motor, textile, printing, food, metallurgical, environmental protection engineering, warehouse and logistics industry.

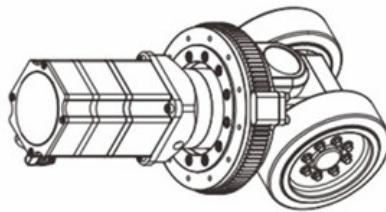
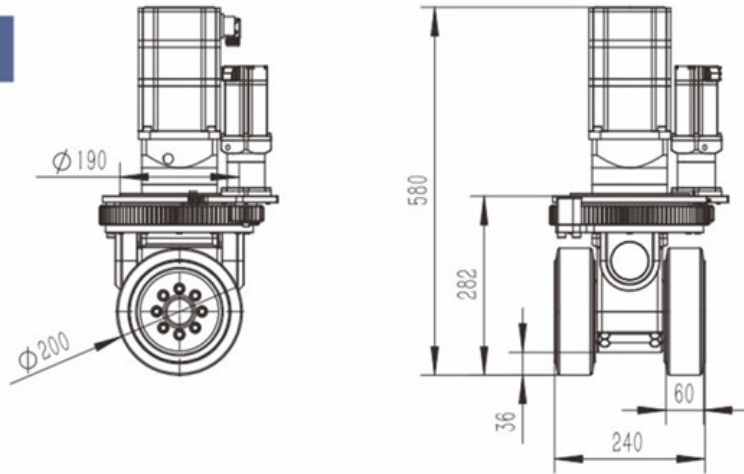
# Description Reducer:

ZL	LDSS	200	1200	400	48	90	
							Ratio (Max speed)
							Volatage
							Steering Motor Power
							Driving Motor Power
							Wheel diameter
							Vertical steering wheel(SS on behalf of the two-wheel)

Company name

ZL-LDSS-200-1200-400-48-90(45)

ZL-LDSS-200-1200-400-48-90  
ZL-LDSS-200-1200-400-48-45



Traction motor parameters		Motor Power	Motor Voltage	Motor speed	Motor current	Rated torque	IP Grade	Encoder	
Type	DC	W	V	RPM	A	Nm	IP	Magnetic braiding	Resolution ratio
	Servo Motor	1200	48	3000	31.6	3.8	65	Increment	1024

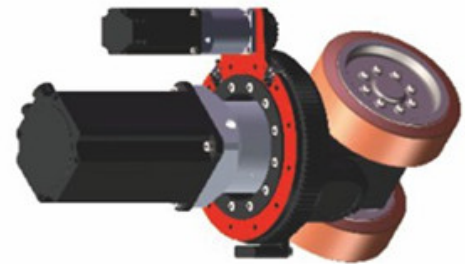
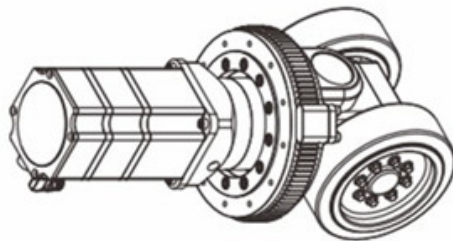
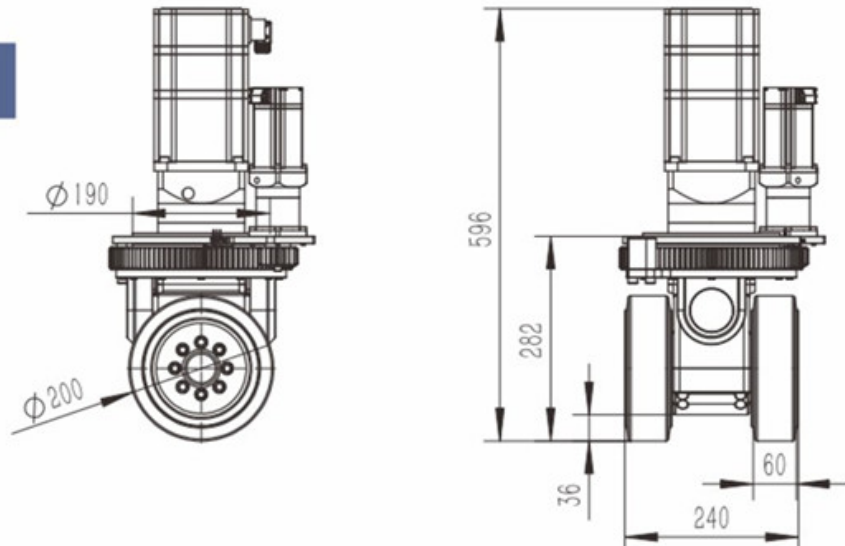
Traction reducer parameters	Type	X	Planetary reducer	
	Reducer speed ratio	i	20	40
	Reducer torque	Nm	350	400
	Polyurethane Loaded	Kg	1500	
	Rubber Loaded	Kg	1380	
	Braking torque	Nm	57	114
	Actuators torque	Nm	3	3
	Actuators Voltage	V	DC24	DC24
	Maximum speed	M/min	94.2	47.1
	Traction	N	722	1368
	Traction weight	reference	1083	2052

Steering motor parameters	Type	DC	Servo Motor
	Motor Power	W	400
	Motor Voltage	V	48
	Motor speed	RPM	3000
	Motor current	A	10.1
	Reducer speed ratio	i	35+ (100:20)
	Reducer torque	Nm	35
	IP Grade	IP	65
	Encoder	Magnetic braiding	Increment
		Resolution ratio	1024
	Left and right limit	IO	Always on, always off
	Max steering Angle	±	140°

Another	Reducer lubrication	lubricant	(-20°~200°)
	Dead-weight	Kg	About 33

# ZL-LDSS-200-1500-4000-48-90(45)

ZL-LDSS-200-1500-400-48-90  
ZL-LDSS-200-1500-400-48-45



Traction motor parameters		Motor Power	Motor Voltage	Motor speed	Motor current	Rated torque	IP Grade	Encoder	
Type	DC	W	V	RPM	A	Nm	IP	Magnetic braiding	Resolution ratio
	Servo Motor	1500	48	3000	37.4	5	65	Increment	1024

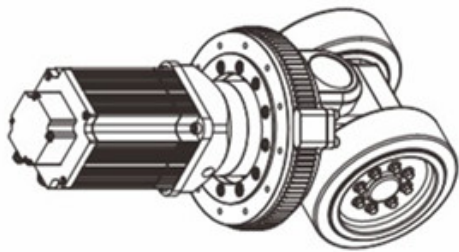
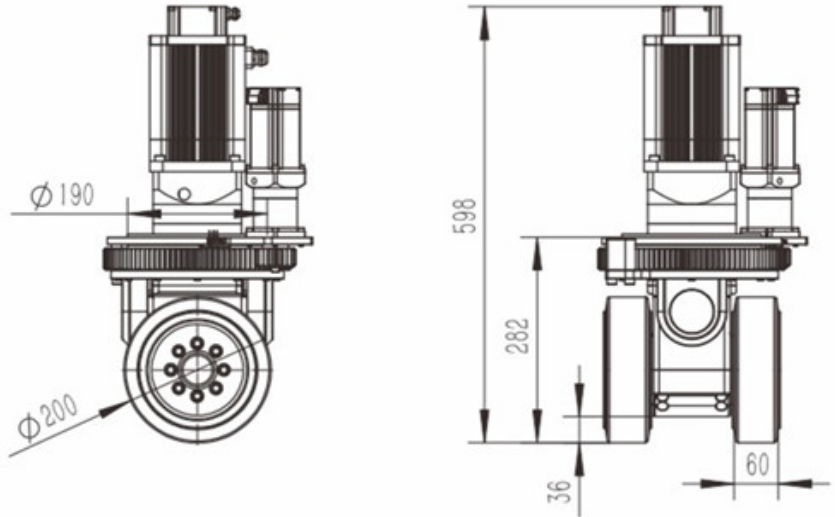
Traction reducer parameter s	Type	X	Planetary reducer	
	Reducer speed ratio	i	20	40
	Reducer torque	Nm	350	400
	Polyurethane Loaded	Kg	1500	
	Rubber Loaded	Kg	1380	
	Braking torque	Nm	57	114
	Actuators torque	Nm	3	3
	Actuators Voltage	V	DC24	DC24
	Maximum speed	M/min	94.2	47.1
	Traction	N	950	1800
	Traction weight	reference	1425	2700

Steering motor parameters	Type	DC	Servo Motor
	Motor Power	W	400
	Motor Voltage	V	48
	Motor speed	RPM	3000
	Motor current	A	10.1
	Reducer speed ratio	i	35+ (100:20)
	Reducer torque	Nm	35
	IP Grade	IP	65
	Encoder	Magnetic braiding	Increment
		Resolution ratio	1024
	Left and right limit	IO	Always on, always off
	Max steering Angle	±	140°

Another	Reducer lubrication	lubricant	(-20°~200°)
	Dead-weight	Kg	About 33

# ZL-LDSS-200-2000-400-48-90(45)

ZL-LDSS-200-2000-400-48-90  
ZL-LDSS-200-2000-400-48-45



Traction motor parameters		Motor Power	Motor Voltage	Motor speed	Motor current	Rated torque	IP Grade	Encoder	
Type	DC	W	V	RPM	A	Nm	IP	Magnetic braiding	Resolution ratio
	Servo Motor	2000	48	3000	67	7.3	65	Increment	1024

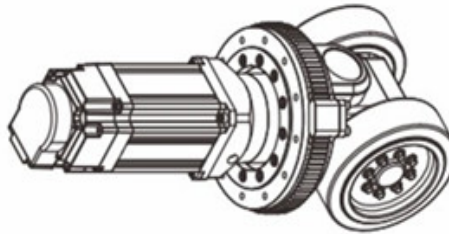
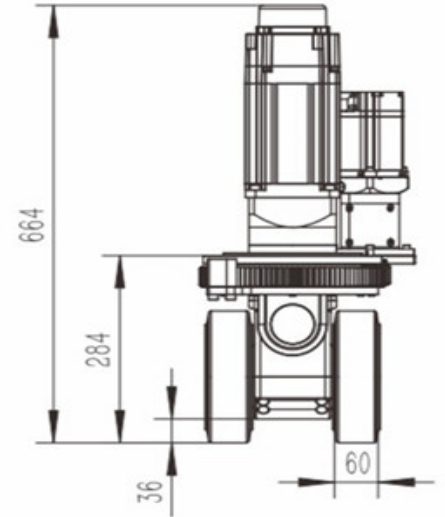
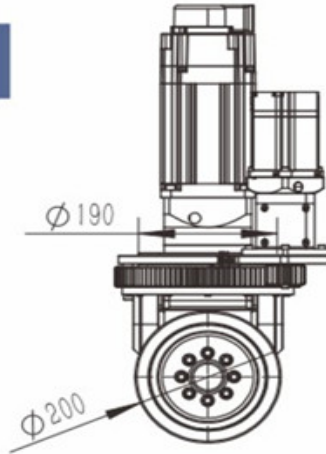
Traction reducer parameter s	Type	X	Planetary reducer	
	Reducer speed ratio	i	20	40
	Reducer torque	Nm	350	400
	Polyurethane Loaded	Kg	1500	
	Rubber Loaded	Kg	1380	
	Braking torque	Nm	57	114
	Actuators torque	Nm	3	3
	Actuators Voltage	V	DC24	DC24
	Maximum speed	M/min	94.2	47.1
	Traction	N	1387	2628
	Traction weight	reference	2081	3942

Steering motor parameters	Type	DC	Servo Motor
	Motor Power	W	400
	Motor Voltage	V	48
	Motor speed	RPM	3000
	Motor current	A	10.1
	Reducer speed ratio	i	35+ (100:20)
	Reducer torque	Nm	35
	IP Grade	IP	65
	Encoder	Magnetic braiding	Increment
		Resolution ratio	1024
	Left and right limit	IO	Always on, always off
	Max steering Angle	±	140°

Another	Reducer lubrication	lubricant	(-20°~200°)
	Dead-weight	Kg	About 35

# ZL-LDSS-200-3000-400-48-75(45)

ZL-LDSS-200-3000-750-48-75  
ZL-LDSS-200-3000-750-48-45



Traction motor parameters		Motor Power	Motor Voltage	Motor speed	Motor current	Rated torque	IP Grade	Encoder	
Type	DC	W	V	RPM	A	Nm	IP	Magnetic braiding	Resolution ratio
	Servo Motor	3000	48	1500	80	19.1	65	Increment	1024

Traction reducer parameters	Type	X	Planetary reducer	
	Reducer speed ratio	i	12	20
	Reducer torque	Nm	350	400
	Polyurethane Loaded	Kg	1500	
	Rubber Loaded	Kg	1380	
	Braking torque	Nm	34.2	57
	Actuators torque	Nm	3	3
	Actuators Voltage	V	DC24	DC24
	Maximum speed	M/min	78.5	47.1
	Traction	N	2177	3438
	Traction weight	reference	3266	5157

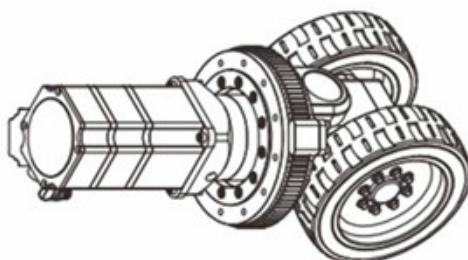
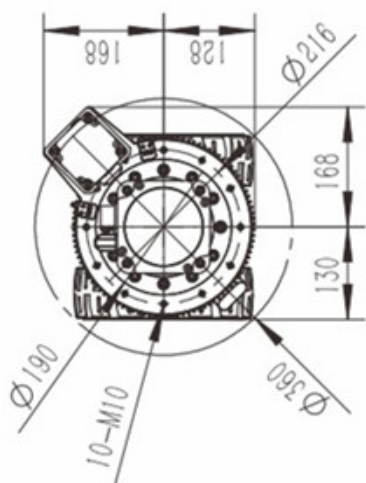
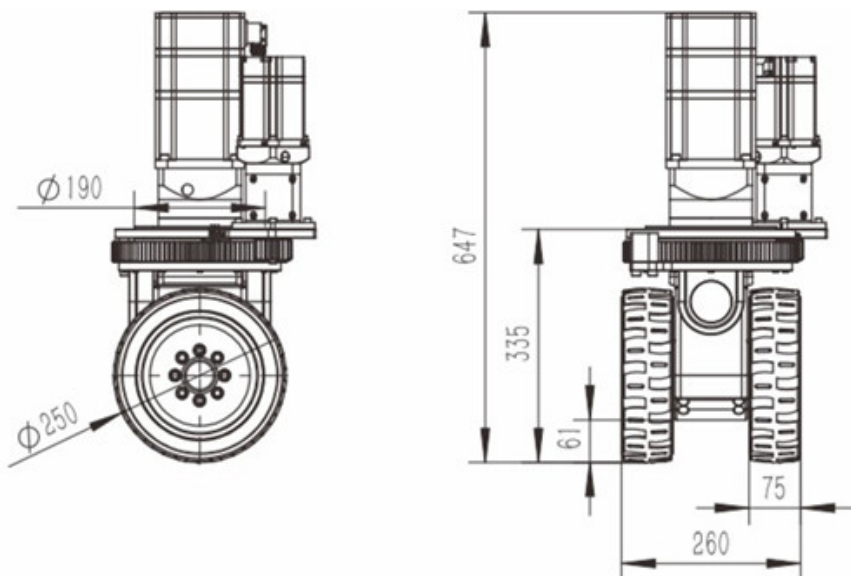
Steering motor parameters	Type	DC	Servo Motor
	Motor Power	W	750
	Motor Voltage	V	48
	Motor speed	RPM	3000
	Motor current	A	19
	Reducer speed ratio	i	35+ (100:20)
	Reducer torque	Nm	105
	IP Grade	IP	65
	Encoder	Magnetic braiding	Increment
		Resolution ratio	1024
	Left and right limit	IO	Always on, always off
	Max steering Angle	±	140°

Another	Reducer lubrication	lubricant	(-20°~200°)
	Dead-weight	Kg	About 36

# LDSS250 Series

ZL-LDSS-250-1500-750-48-80(55)

ZL-LDSS-250-1500-750-48-80  
ZL-LDSS-250-1500-750-48-55



Traction motor parameters		Motor Power	Motor Voltage	Motor speed	Motor current	Rated torque	IP Grade	Encoder	
Type	DC	W	V	RPM	A	Nm	IP	Magnetic braiding	Resolution ratio
	Servo Motor	1500	48	3000	37.4	5	65	Increment	1024

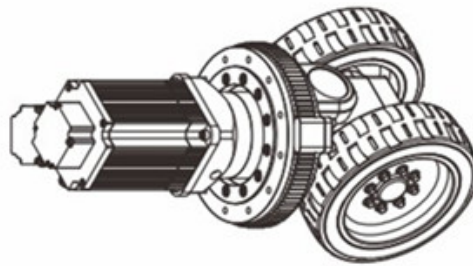
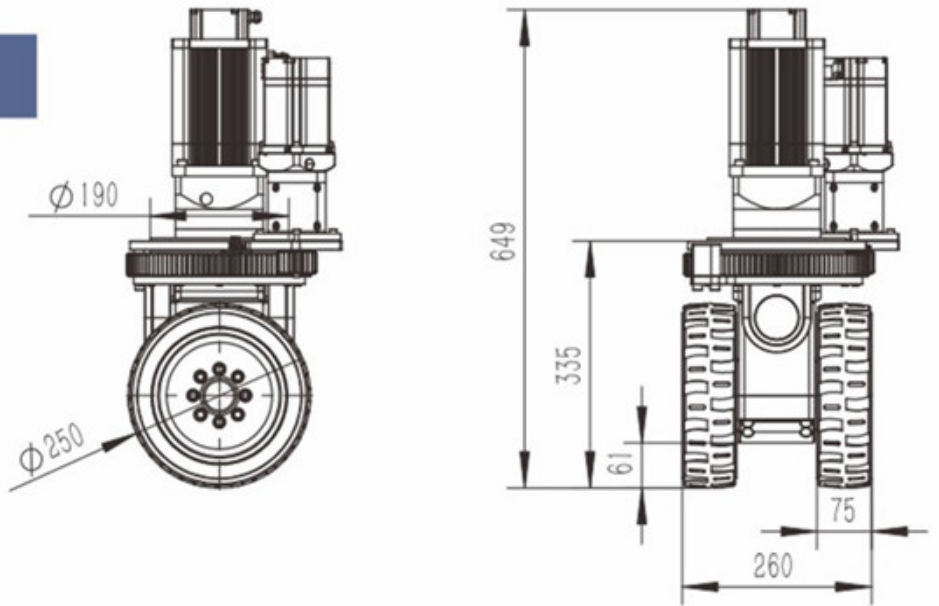
Traction reducer parameters	Type	X	Planetary reducer	
	Reducer speed ratio	i	28	40
	Reducer torque	Nm	350	400
	Polyurethane Loaded	Kg	2000	
	Rubber Loaded	Kg	1800	
	Braking torque	Nm	79.8	114
	Actuators torque	Nm	3	3
	Actuators Voltage	V	DC24	DC24
	Maximum speed	M/min	84.1	58.9
	Traction	N	1064	1440
	Traction weight	reference	1596	2160

Steering motor parameters	Type	DC	Servo Motor
	Motor Power	W	750
	Motor Voltage	V	48
	Motor speed	RPM	3000
	Motor current	A	19
	Reducer speed ratio	i	35+ (100:20)
	Reducer torque	Nm	105
	IP Grade	IP	65
	Encoder	Magnetic braiding	Increment
		Resolution ratio	1024
	Left and right limit	IO	Always on, always off
	Max steering Angle	±	140°

Another	Reducer lubrication	lubricant	(-20°~200°)
	Dead-weight	Kg	About 42

**ZL-LDSS-250-2000-750-48-80(56)**

ZL-LDSS-250-2000-750-48-80  
ZL-LDSS-250-2000-750-48-55



Traction motor parameters		Motor Power	Motor Voltage	Motor speed	Motor current	Rated torque	IP Grade	Encoder	
Type	DC	W	V	RPM	A	Nm	IP	Magnetic braiding	Resolution ratio
	Servo Motor	2300	48	3000	67	7.3	65	Increment	1024

Traction reducer parameters	Type	X	Planetary reducer	
	Reducer speed ratio	i	28	40
	Reducer torque	Nm	350	400
	Polyurethane Loaded	Kg	2000	
	Rubber Loaded	Kg	1800	
	Braking torque	Nm	79.8	114
	Actuators torque	Nm	3	3
	Actuators Voltage	V	DC24	DC24
	Maximum speed	M/min	84.1	58.9
	Traction	N	1553	2102.4
	Traction weight	reference	2330	3153.6

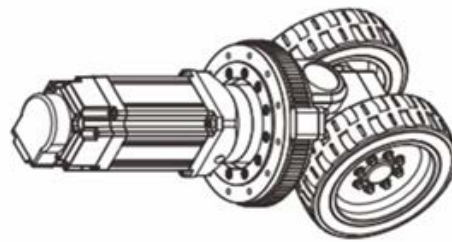
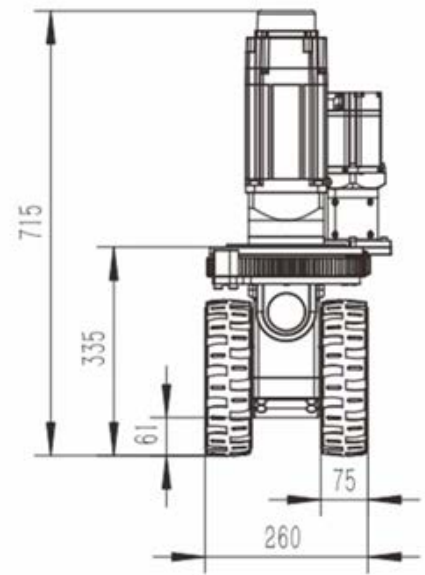
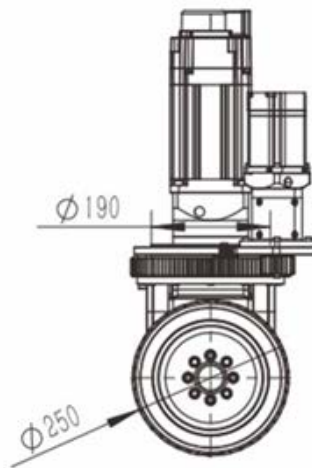
Steering motor parameters	Type	DC	Servo Motor
	Motor Power	W	750
	Motor Voltage	V	48
	Motor speed	RPM	3000
	Motor current	A	19
	Reducer speed ratio	i	35+ (100:20)
	Reducer torque	Nm	105
	IP Grade	IP	65
	Encoder	Magnetic braiding	Increment
		Resolution ratio	1024
	Left and right limit	IO	Always on, always off
	Max steering Angle	±	140°

Another	Reducer lubrication	lubricant	(-20°~200°)
	Dead-weight	Kg	About 43

# ZL-LDSS-250-3000-750-48-70(40)

## LDSS250 Series

ZL-LDSS-250-3000-750-48-70  
ZL-LDSS-250-3000-750-48-40



Traction motor parameters		Motor Power	Motor Voltage	Motor speed	Motor current	Rated torque	IP Grade	Encoder	
Type	DC	W	V	RPM	A	Nm	IP	Magnetic braiding	Resolution ratio
	Servo Motor	3000	48	1500	80	19.1	65	Increment	1024

Traction reducer parameter s	Type	X	Planetary reducer	
	Reducer speed ratio	i	16	28
	Reducer torque	Nm	350	450
	Polyurethane Loaded	Kg	2000	
	Rubber Loaded	Kg	1800	
	Braking torque	Nm	60.8	106.4
	Actuators torque	Nm	4	4
	Actuators Voltage	V	DC24	DC24
	Maximum speed	M/min	73.6	42.1
	Traction	N	2323	3422.72
	Traction weight	reference	3484	5134.08

Steering motor parameter s	Type	DC	Servo Motor
	Motor Power	W	750
	Motor Voltage	V	48
	Motor speed	RPM	3000
	Motor current	A	19
	Reducer speed ratio	i	35+ (100:20)
	Reducer torque	Nm	105
	IP Grade	IP	65
	Encoder	Magnetic braiding	Increment
		Resolution ratio	1024
	Left and right limit	IO	Always on, always off
	Max steering Angle	±	140°

Another	Reducer lubrication	lubricant	(-20°~200°)
	Dead-weight	Kg	About 45

## Delivery time :

Quantity(Pieces)	1 - 50	>50
Est. Time(days)	45	To be negotiated

## FAQ

### Q:Are you factory?

A:Yes, we are facotry, and we produce stepper motor and gearbox reducer and AGV RGV for more than 15 years in China.

### Q: What should I do, if I have no idea about parameter of motor and driver?

A:Please don't worry, send the picture and application to our professional sale, and we will give you the best suggestion.

### Q: How long is your products quality warranty?

A: We provide one year factory quality warranty.

### Q: How long is your delivery time?

A: When the order is confirmed, 7 working days for the small order,15~20 days for the bulk.

### Q:Can you offer me OEM service?

A:Yes,However,you should give me more request as you can.

### Q:How to choose suitable model?

A:Please provide a photo of the product you used before or advise us your needs, we will give suggestion .

### Q:What's your MOQ?

A:Normally one piece. If more, we can talk about discount. You can mix it with other Shenli machine parts shipping together .

### Q: What is your terms of payment ?

A: 100% in advance. Payment $\geq$ 50000USD, 50% T/T in advance, balance before shipment .

### Q: How does your QC work?

A: We have performance test ,Sampling test ,routing test and acceptance test.

### Q:Why choose your company?

A:We are a professional Industrial Solutions company in China. we're passed IS9001 international quality system certification; the products have respectively passed quality certification of CE, ROHS, FCC etc. Our brand quality can be supply high cost performance transmission control products for the world industrial control.