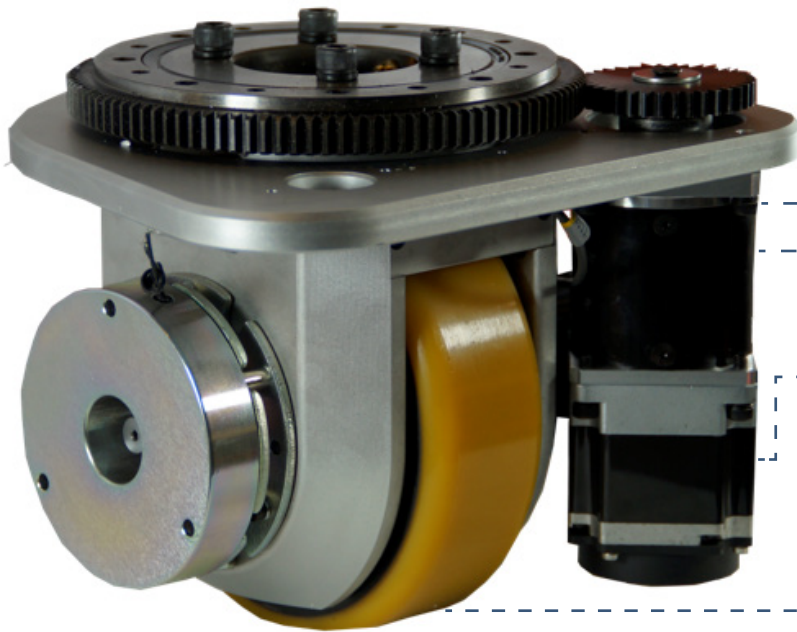


Steering Wheel Module

AB-SW-Customized Model

ATOMBOTIX



• **Rated Voltage:** 24/48V

• **Encoder:**

Incremental Encoder(2500 lines) /
Absolute Encoder(NRZ Mode)/Posital
Absolute Encoder(BissC Mode)

• **Communication Method:**

CAN/EtherCAT/RS485 Optional

• **Applicable Scenarios:**

Forklift Stacker, Pallet Truck,
Lifting AMR/AGV,
Platform AMR/AGV, Heavy Duty
AGV, Elevated Work Platform, etc.



Integrated driving, Steering, Braking & Encoder assembly, built for robots.



Flexible Kinematic Design, Supports multiple kinematic mode.



Servo System, Closed loop control with mm level accuracy.

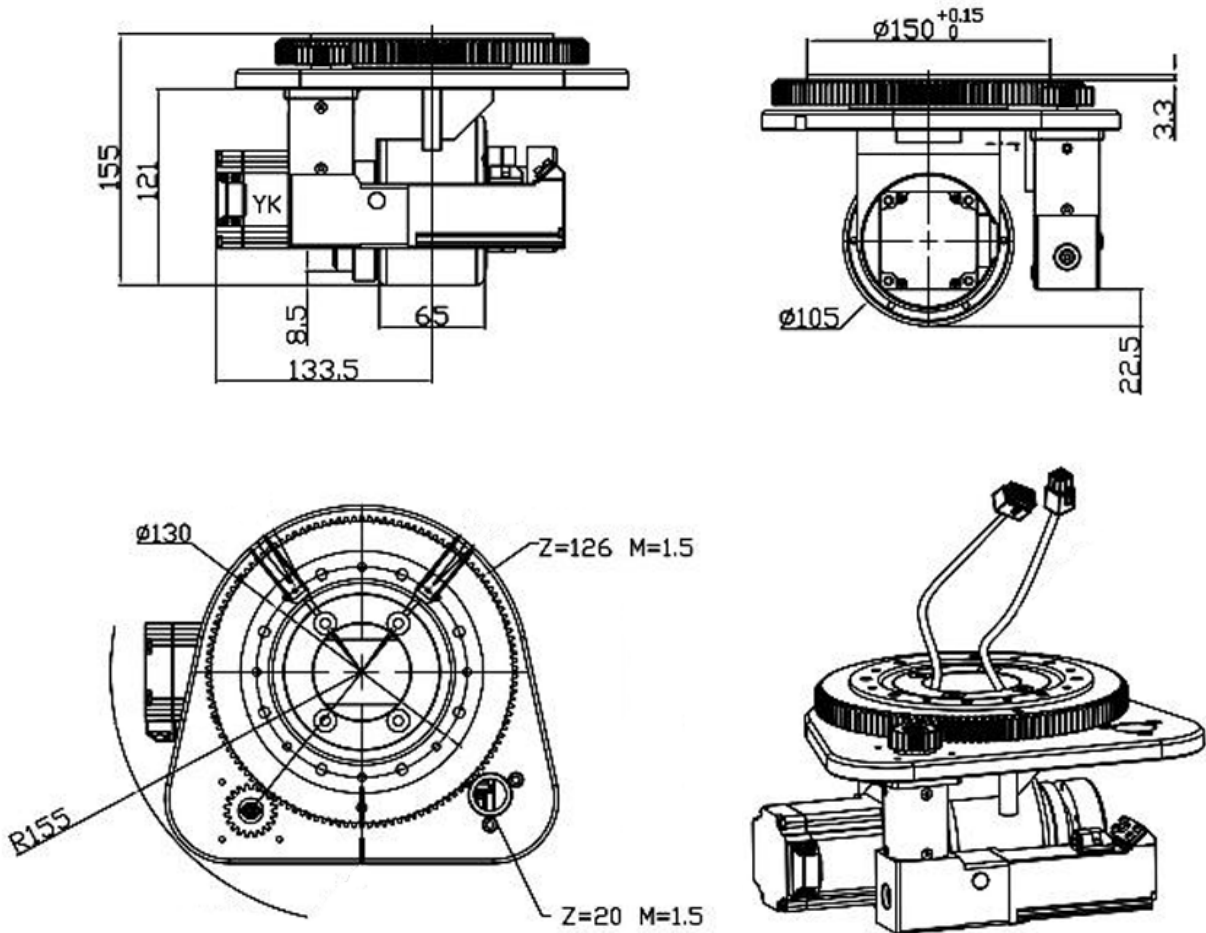


Modular Design, Easy maintenance & debugging.

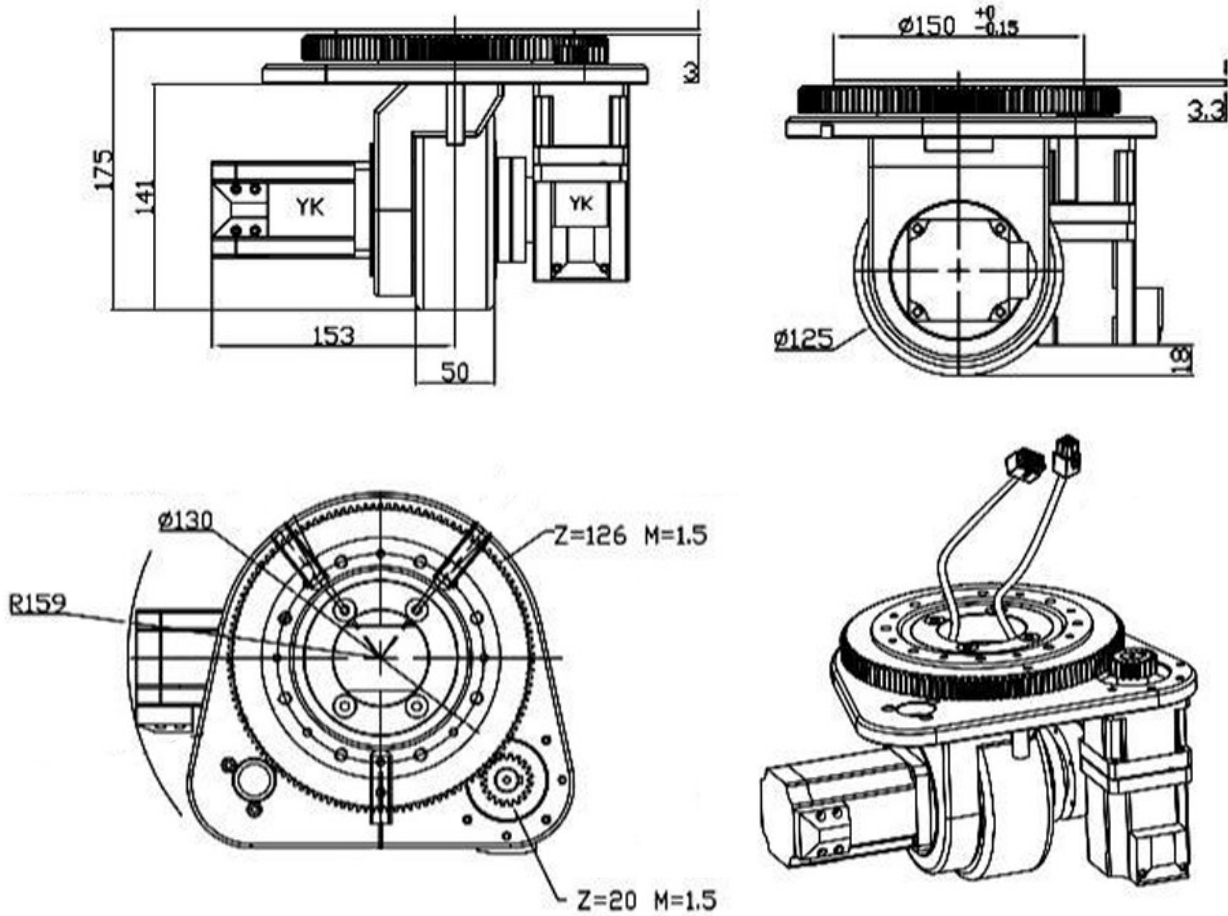


Flexible Customization, Application specific optmization.

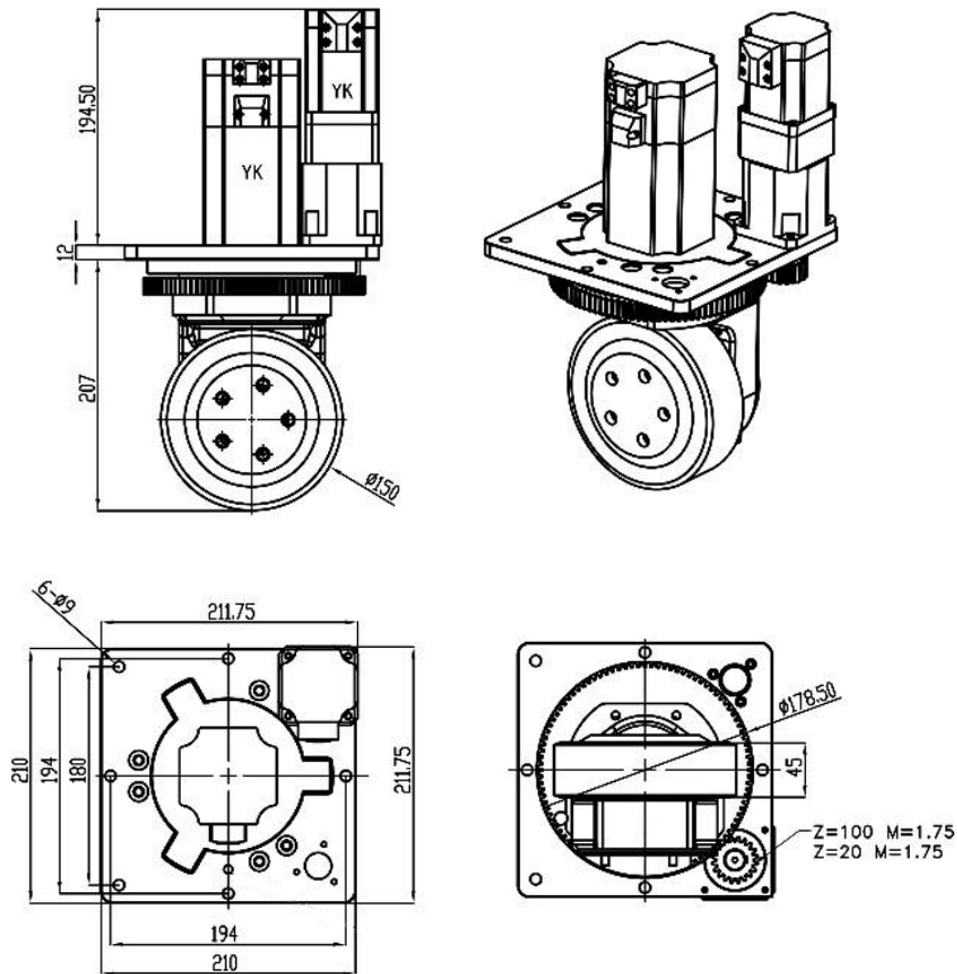
Type	Model	Specification					Drive Motor		Steering Motor		
		Voltage (V)	Payload (kg)	Wheel Diameter (mm)	Height (mm)	Weight (kg)	Power (kW)	Nominal Torque (N·m)	Power (kW)	Nominal Torque (N·m)	Turning
	AB-SW-D150-P0.75-C500-V	24/48	500	150	413.5	25	0.75	38	0.2	68	±180°
	AB-SW-D230-P3.0-C1500-V	48	1500	230	508.5	80	3	177.65/218.03	0.4	334.56	±130°
	AB-SW-D300-P4.0/5.0-C2000-V	48	2000	300	768	95	4.0/5.0	182.33/364.65	0.75	533.27	±180°
	AB-SW-D105-P0.4-C300	48	300	105	155	17.5	0.4	34.8	0.1	77.11	±120°
	AB-SW-D125-P0.4-C350	48	350	125	175	17.5	0.4	26.11/34.82	0.1	77.11	±120°
	AB-SW-D150-P0.75-C600	48	600	150	173	21	0.75	40.63/60.01	0.1	67.32	±120°
	AB-SW-D150-P1.0-C600	48	600	150	173	21	1	54.40/87.04	0.1	67.32	±120°
	AB-SW-D160-P0.4-C350	24/48	350	160	194	21	0.4	21.59/34.54	0.2	34.27	±141°
	AB-SW-D160-P0.75-C800	24/48	800	160	203	21	0.75	65.01	0.1	72.22	±120°
	AB-SW-D160-P1.0-C1000	48	1000	160	203	21	1	54.40/87.04	0.1	72.22	±120°
	AB-SW-D150-P0.4-C600	48	600	150	173	21	0.4	21.59/34.54	0.1	29.92	±120°
	AB-SW-D180-P1.5-C1000	48	1000	180	245	25	1.5	97.38	0.2	72.22	±120°
	AB-SW-D200-P0.75-C1000	48	1000	200	265	43	0.75	102	0.2	144.43	±120°
	AB-SW-D200-P1.0-C1500	48	1500	200	265	43	1	136	0.4	239.9	±120°
	AB-SW-D200-P1.0-C1000	48	1000	200	265	43	1	97.30/129.74	0.2	288.86	±120°
	AB-SW-D200-P1.5-C1500	48	1500	200	265	43	1.5	129.74	0.4	239.9	±120°
	AB-SW-D200-P3.0-C1500	48	1500	200	265	43	3	193.8	0.4	239.9	±120°
	AB-SW-D250-P1.0-C1000	24/48	1000	250	300	43	1	65.28-129.74	0.4/0.2	119.95 - 288.86	±120°
	AB-SW-D250-P1.5-C1500	48	1500	250	300	43	1.5	97.31-129.74	0.4	239.9	±120°
	AB-SW-D250-P3.0-C1500	48	1500	250	300	48	3	193.80-367.20	0.4/0.2	119.95 - 288.86	±120°
	AB-SW-D280-P3.0-C3000	48	3000	280	358	80	3	88.83-177.65	0.75	497.72	±120°
	AB-SW-D300-P3.0-C3000	48	3000	300	386	80	3	323	0.75	497.72	±120°
	AB-SW-D300-P4.0/5.0-C3500	48	3500	300	385	95	4.0/5.0	994.5	1	666.4	±120°
	AB-SW-D410-P4.3-C4500	48	4500	410	525	200	4.3	1606.50/2295.00	1	2040	±110°
	AB-SW-D410-P5.7-C4500	48	4500	410	525	200	5.7	1606.50/2295.00	1	2040	±110°
	AB-SW-D500-P5.5-C6000	48	6000	500	616	350	5.5	2142	1.5/3	1508.27 - 17212.50	±120°
	AB-SW-D500-P7.5-C6000/10000	48	6000/10000	500	616	350	7.5	4896	1.5/3	1508.27- 17212.50	±120°
	AB-SW-D550-P7.5-C15000	96	15000	550	690	450	7.5	4896	3	4562.38	±120°
	AB-SW-D550-P20-C15000	96	15000	550	690	450	20	3332	3	4562.38	±120°



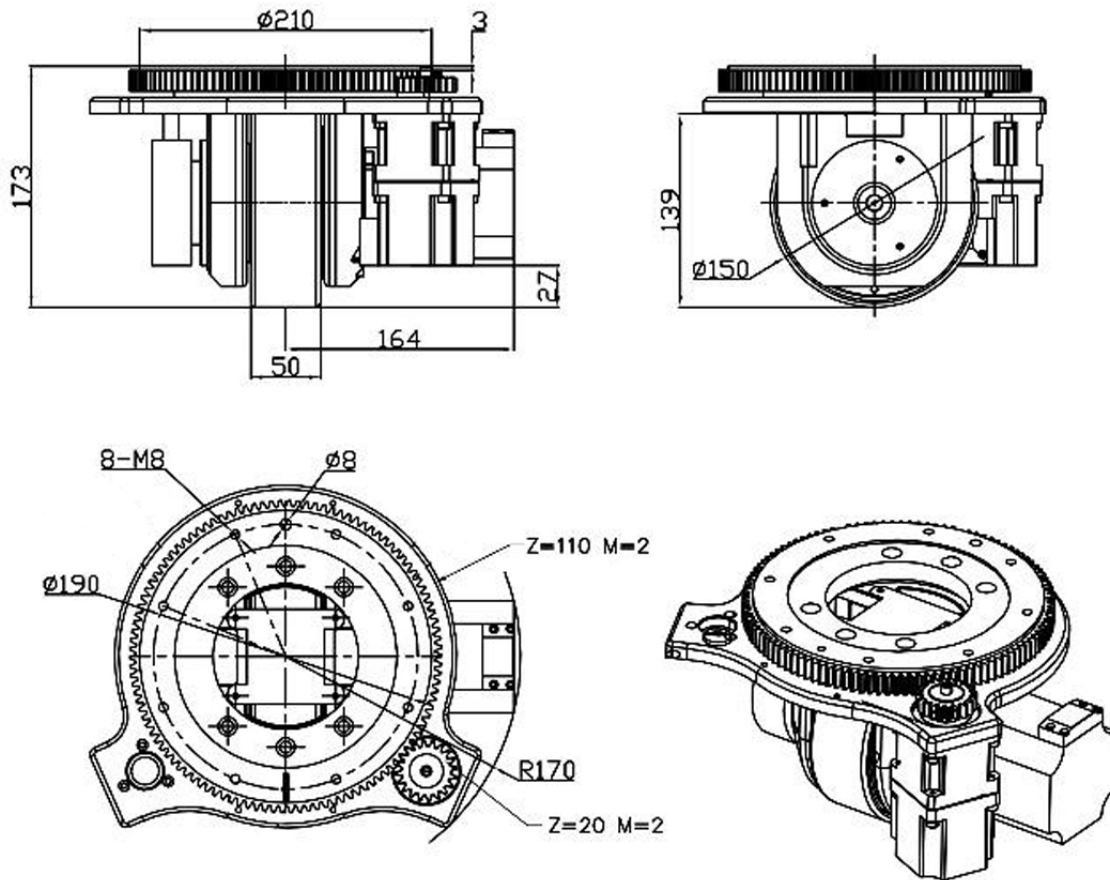
Model	AB-SW-D105-P0.4-C300
Drive Motor	
Wheel Diameter	105 mm
Height	155 mm
Working Voltage	48 V
Rated Power	0.4 kW
Nominal Torque(Traction Motor)	1.28 N·m
Gear Ratio	32
Nominal Torque(Drive Motor)	34.80 N·m
RPM	3000
Encoder	Incremental Encoder(2500 lines)
Steering Motor	
Rated Power	0.1 kW
Bearing & Gear Ratio	283.5
Nominal Torque	0.32 N·m
RPM	3000
Max. Angle Limit	±120°
Encoder	Incremental Encoder(2500 lines) / Absolute Encoder(NRZ Mode) /Posital Absolute Encoder(BissC Mode)
Specification	
Drive Communication	EtherCat/CanOpen/Modbus
Max. Payload	300 kg
Net Weight	17.5 kg



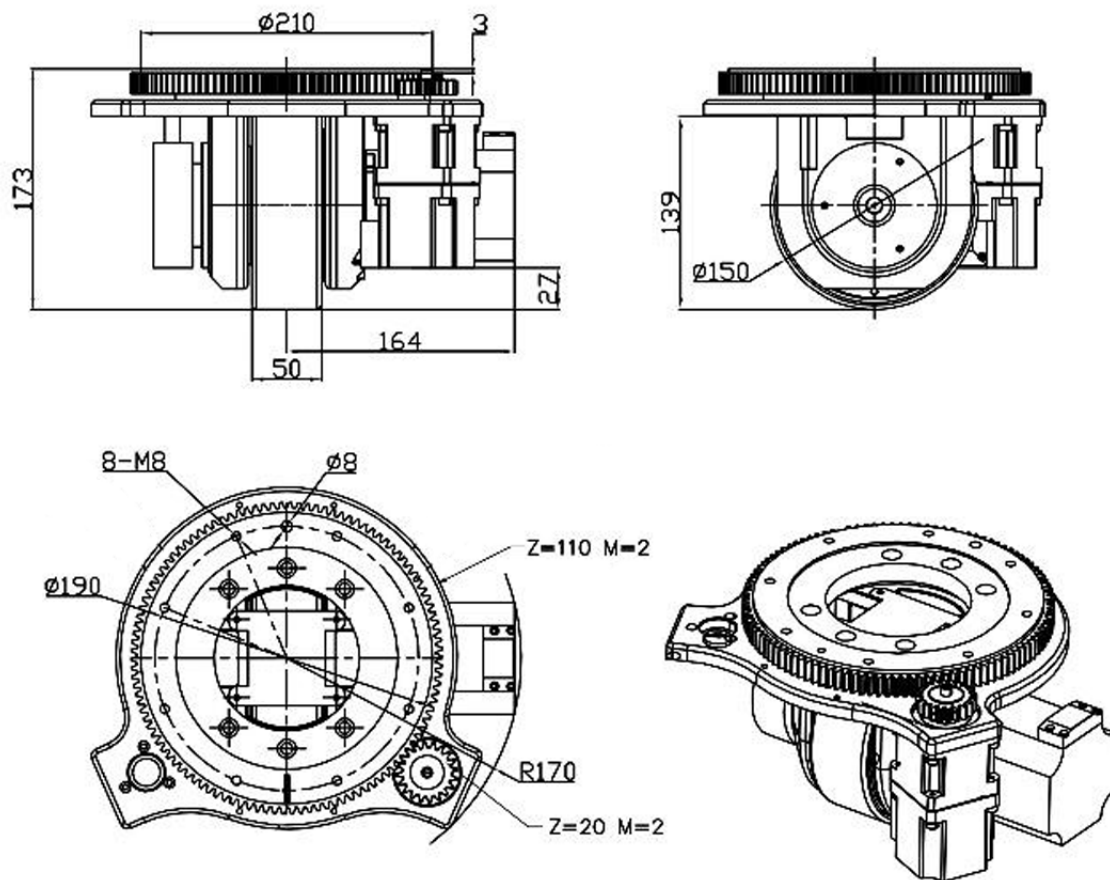
Model	AB-SW-D125-P0.4-C350
Drive Motor	
Wheel Diameter	125 mm
Height	175 mm
Working Voltage	48 V
Rated Power	0.4 kW
Nominal Torque(Traction Motor)	1.28 N·m
Gear Ratio	24/32
Nominal Torque(Drive Motor)	26.11 N·m / 34.82 N·m
RPM	3000
Encoder	Incremental Encoder(2500 lines)
Steering Motor	
Rated Power	0.1 kW
Bearing & Gear Ratio	283.5
Nominal Torque	0.32 N·m
RPM	3000
Max. Angle Limit	±120°
Encoder	Incremental Encoder(2500 lines) / Absolute Encoder(NRZ Mode) /Posital Absolute Encoder(BissC Mode)
Specification	
Drive Communication	EtherCat/CanOpen/Modbus
Max. Payload	350 kg
Net Weight	17.5 kg



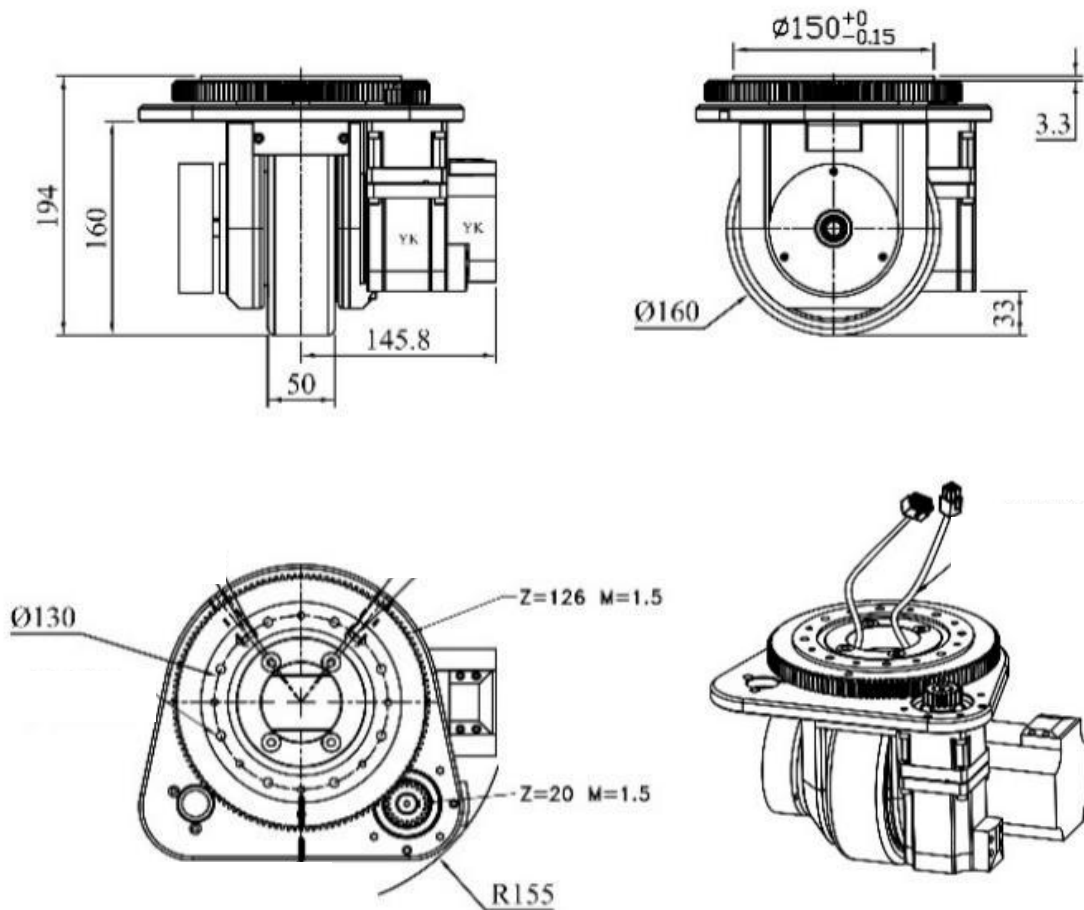
Model	AB-SW-D150-P0.75-C500-V
Drive Motor	
Wheel Diameter	150 mm
Height	413.5 mm
Working Voltage	24/48 V
Rated Power	0.75 kW
Nominal Torque(Traction Motor)	2.39 N·m
Gear Ratio	18.9
Nominal Torque(Drive Motor)	38.00 N·m
RPM	3000
Encoder	Incremental Encoder(2500 lines)
Steering Motor	
Rated Power	0.2 kW
Bearing & Gear Ratio	250
Nominal Torque	0.32 N·m
RPM	3000
Max. Angle Limit	±180°
Encoder	Incremental Encoder(2500 lines) / Absolute Encoder(NRZ Mode) /Posital Absolute Encoder(BissC Mode)
Specification	
Drive Communication	EtherCat/CanOpen/Modbus
Max. Payload	500 kg
Net Weight	25 kg



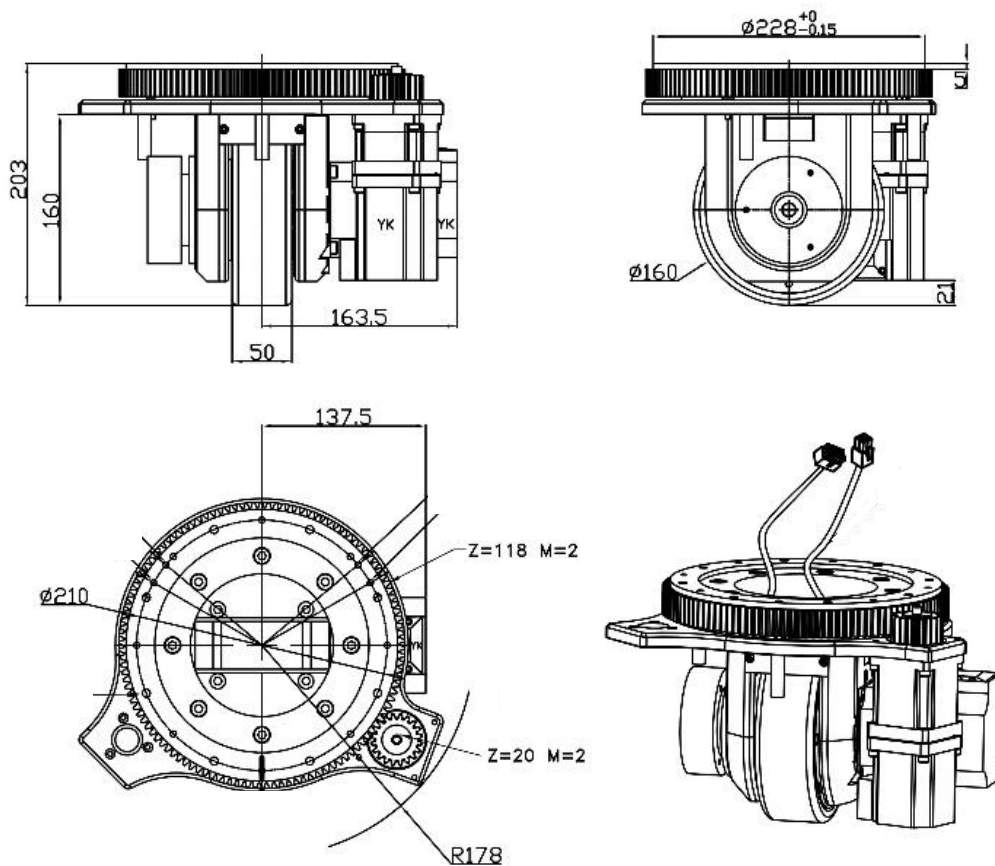
Model	AB-SW-D150-P0.75-C600
Drive Motor	
Wheel Diameter	150 mm
Height	173 mm
Working Voltage	48 V
Rated Power	0.75 kW
Nominal Torque(Traction Motor)	2.39 N·m
Gear Ratio	20/32
Nominal Torque(Drive Motor)	40.63/60.01 N·m
RPM	3000
Encoder	Incremental Encoder(2500 lines)
Steering Motor	
Rated Power	0.1 kW
Bearing & Gear Ratio	247.5
Nominal Torque	0.32 N·m
RPM	3000
Max. Angle Limit	±120°
Encoder	Incremental Encoder(2500 lines) / Absolute Encoder(NRZ Mode) /Posital Absolute Encoder(BissC Mode)
Specification	
Drive Communication	EtherCat/CanOpen/Modbus
Max. Payload	600 kg
Net Weight	21 kg



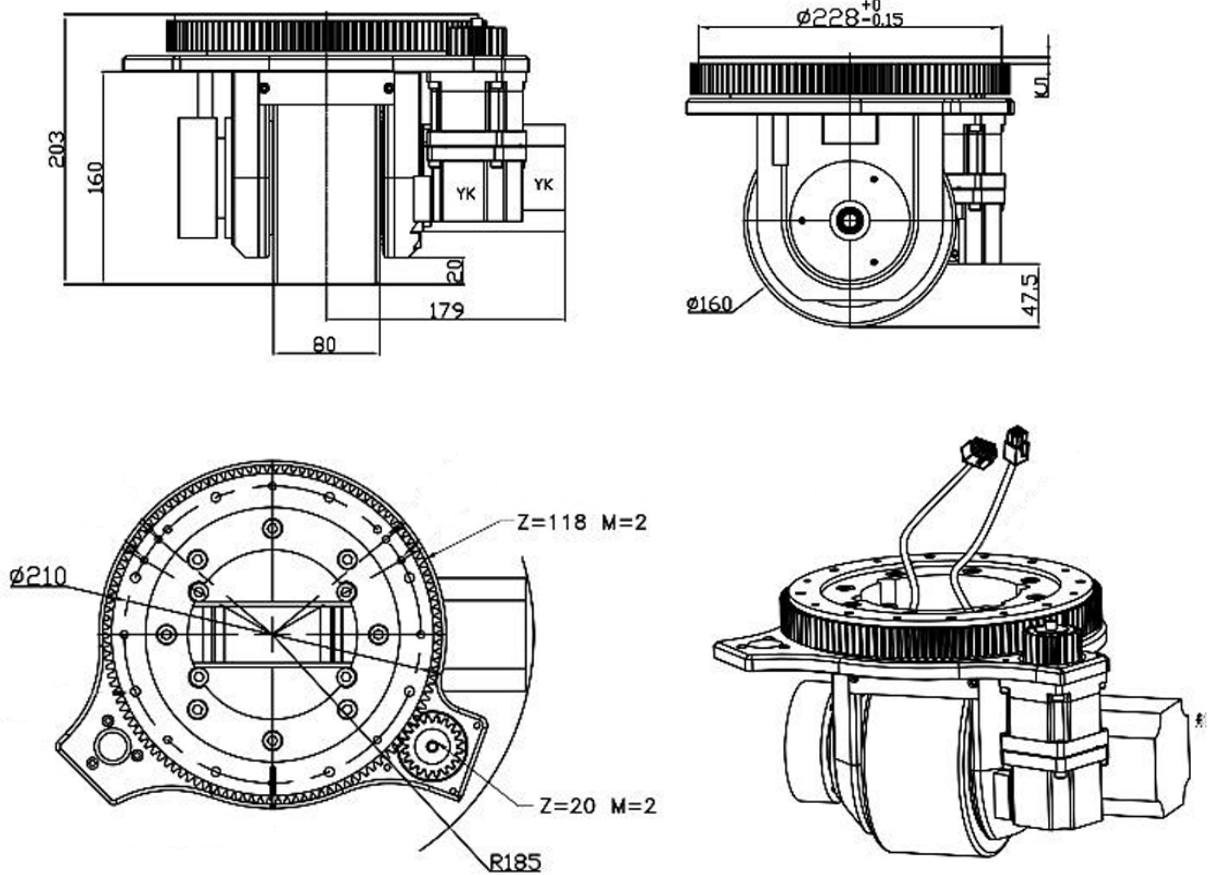
Model	AB-SW-D150-P1.0-C600
Drive Motor	
Wheel Diameter	150 mm
Height	173 mm
Working Voltage	48 V
Rated Power	1.0 kW
Nominal Torque(Traction Motor)	3.20 N·m
Gear Ratio	20/32
Nominal Torque(Drive Motor)	54.40/87.04 N·m
RPM	3000
Encoder	Incremental Encoder(2500 lines)
Steering Motor	
Rated Power	0.1 kW
Bearing & Gear Ratio	247.5
Nominal Torque	0.32 N·m
RPM	3000
Max. Angle Limit	±120°
Encoder	Incremental Encoder(2500 lines) / Absolute Encoder(NRZ Mode) /Posital Absolute Encoder(BissC Mode)
Specification	
Drive Communication	EherCat/CanOpen/Modbus
Max. Payload	600 kg
Net Weight	21 kg



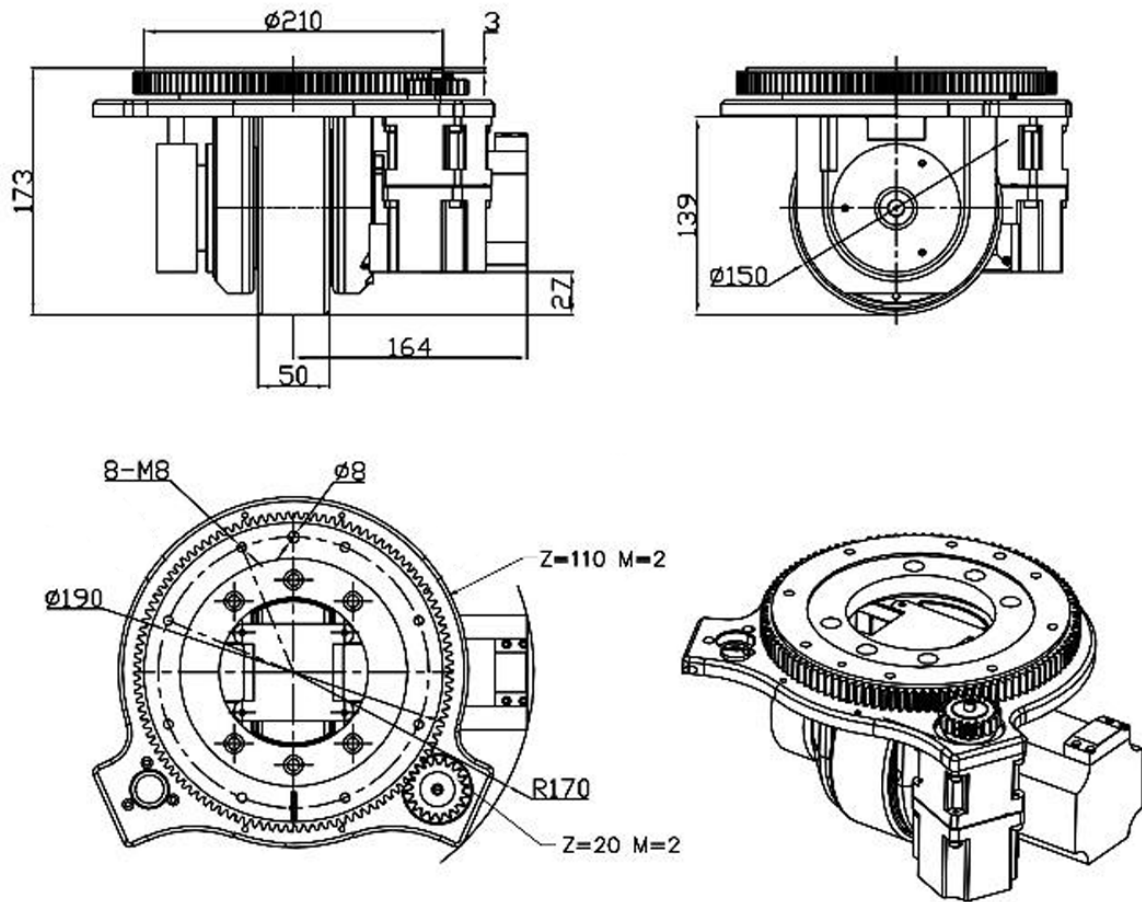
Model	AB-SW-D160-P0.4-C350
Drive Motor	
Wheel Diameter	160 mm
Height	194 mm
Working Voltage	24/48 V
Rated Power	0.4 kW
Nominal Torque(Traction Motor)	1.27 N·m
Gear Ratio	20/32
Nominal Torque(Drive Motor)	21.59/34.54 N·m
RPM	3000
Encoder	Incremental Encoder(2500 lines)
Steering Motor	
Rated Power	0.2 kW
Bearing & Gear Ratio	63
Nominal Torque	0.64 N·m
RPM	3000
Max. Angle Limit	±141°
Encoder	Incremental Encoder(2500 lines) / Absolute Encoder(NRZ Mode) /Posital Absolute Encoder(BissC Mode)
Specification	
Drive Communication	EtherCat/CanOpen/Modbus
Max. Payload	350 kg
Net Weight	21 kg



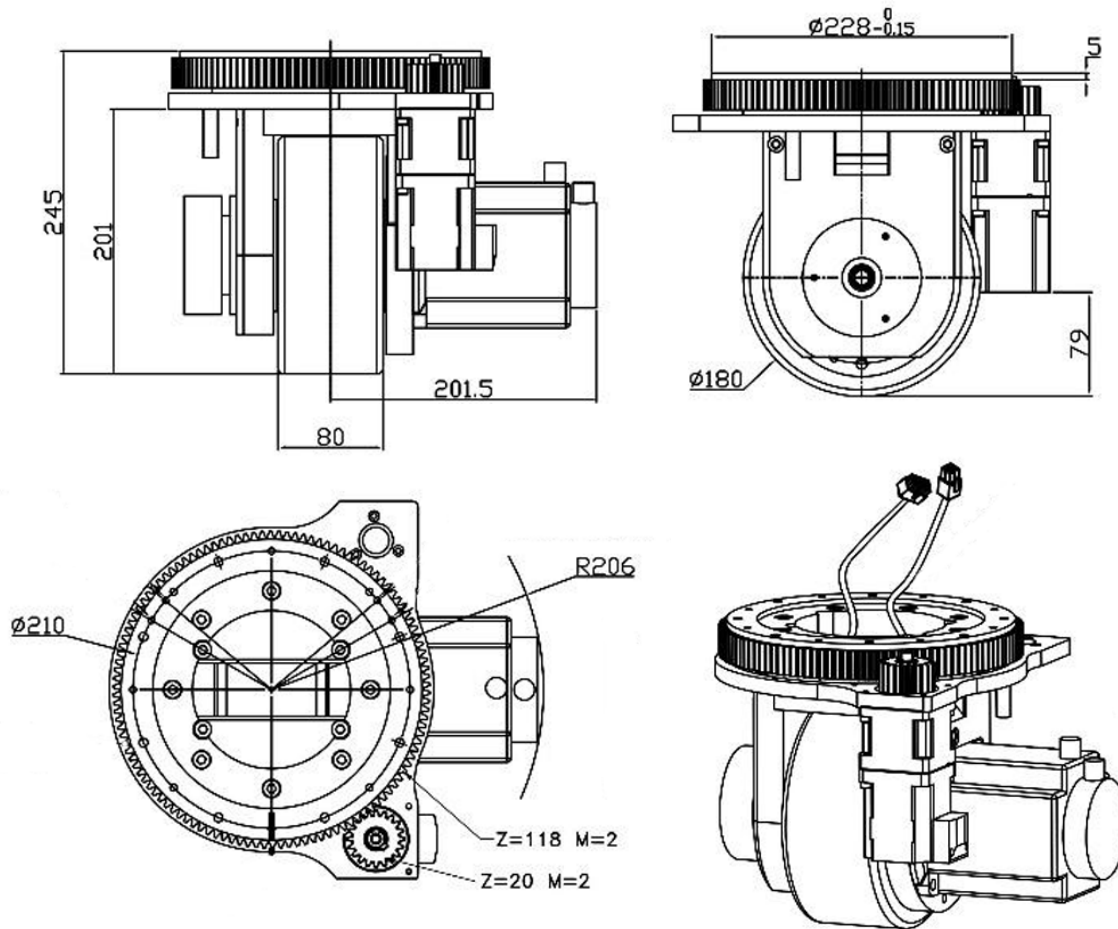
Model	AB-SW-D160-P0.75-C800
Drive Motor	
Wheel Diameter	160 mm
Height	203 mm
Working Voltage	24/48 V
Rated Power	0.75 kW
Nominal Torque(Traction Motor)	2.39 N·m
Gear Ratio	32
Nominal Torque(Drive Motor)	65.01 N·m
RPM	3000
Encoder	Incremental Encoder(2500 lines)
Steering Motor	
Rated Power	0.1 kW
Bearing & Gear Ratio	265.5
Nominal Torque	0.32 N·m
RPM	3000
Max. Angle Limit	±120°
Encoder	Incremental Encoder(2500 lines) / Absolute Encoder(NRZ Mode) /Posital Absolute Encoder(BissC Mode)
Specification	
Drive Communication	EherCat/CanOpen/Modbus
Max. Payload	800 kg
Net Weight	21 kg



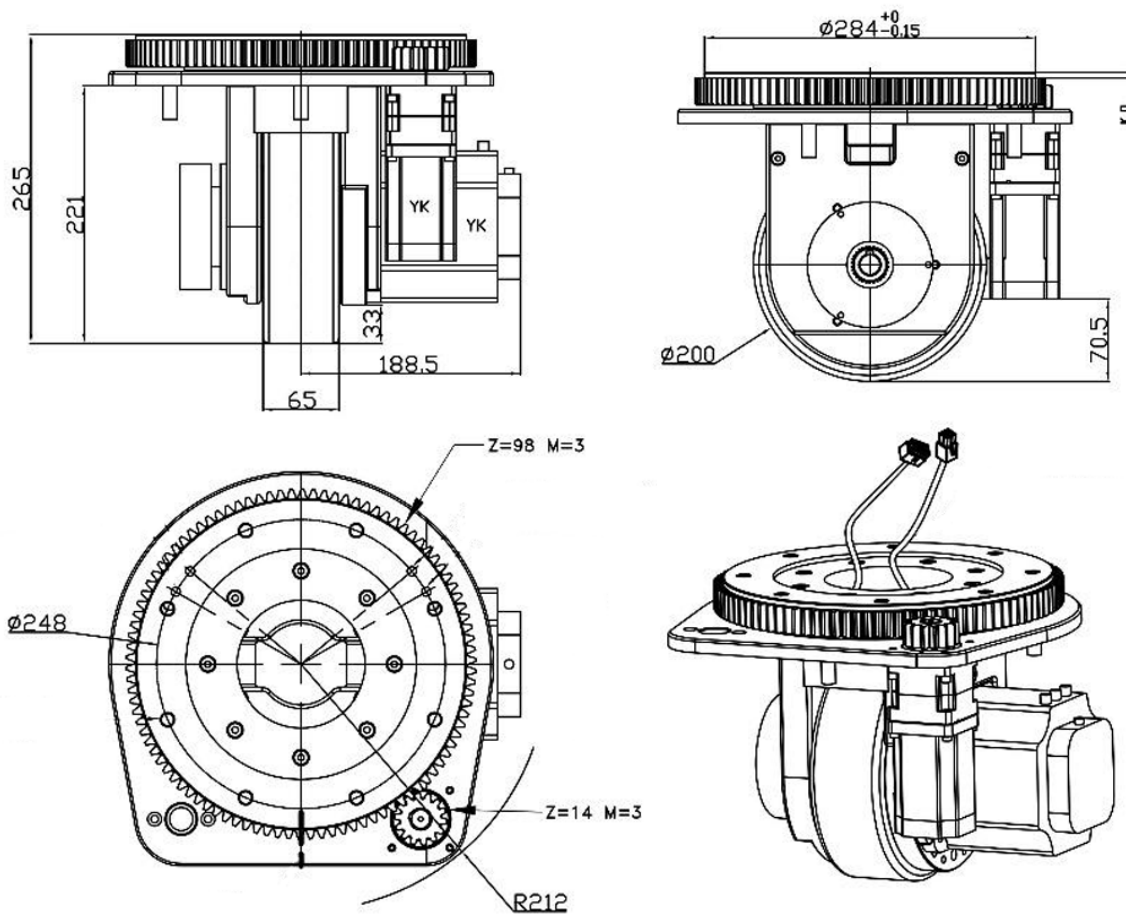
Model	AB-SW-D160-P1.0-C1000
Drive Motor	
Wheel Diameter	160 mm
Height	203 mm
Working Voltage	48 V
Rated Power	1.0 kW
Nominal Torque(Traction Motor)	3.20 N·m
Gear Ratio	20/32
Nominal Torque(Drive Motor)	54.40/87.04 N·m
RPM	3000
Encoder	Incremental Encoder(2500 lines)
Steering Motor	
Rated Power	0.1 kW
Bearing & Gear Ratio	265.5
Nominal Torque	0.32 N·m
RPM	3000
Max. Angle Limit	±120°
Encoder	Incremental Encoder(2500 lines) / Absolute Encoder(NRZ Mode) /Posital Absolute Encoder(BissC Mode)
Specification	
Drive Communication	EtherCat/CanOpen/Modbus
Max. Payload	1000 kg
Net Weight	21 kg



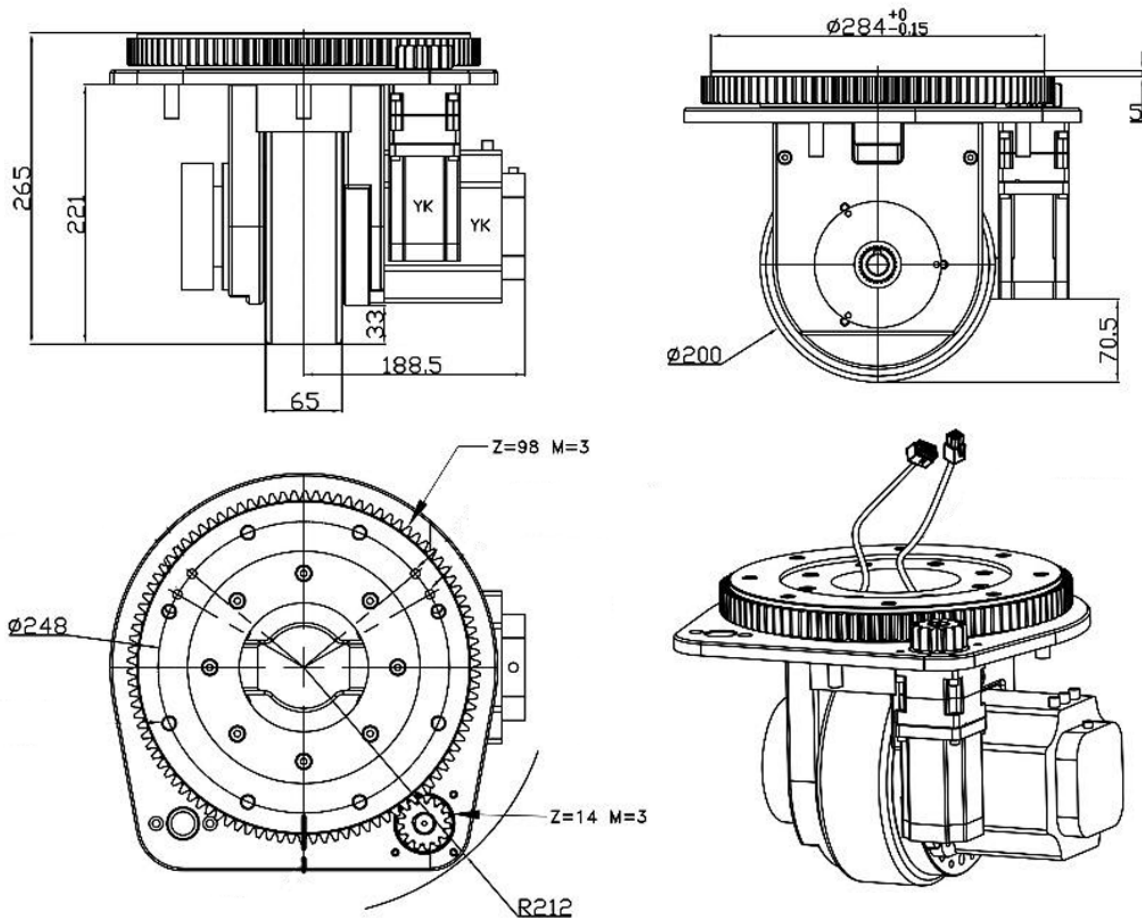
Model	AB-SW-D150-P0.4-C600
Drive Motor	
Wheel Diameter	150 mm
Height	173 mm
Working Voltage	48 V
Rated Power	0.4 kW
Nominal Torque(Traction Motor)	1.27 N·m
Gear Ratio	20/32
Nominal Torque(Drive Motor)	21.59/34.54 N·m
RPM	3000
Encoder	Incremental Encoder(2500 lines)
Steering Motor	
Rated Power	0.1 kW
Bearing & Gear Ratio	55
Nominal Torque	0.64 N·m
RPM	3000
Max. Angle Limit	±120°
Encoder	Incremental Encoder(2500 lines) / Absolute Encoder(NRZ Mode) /Posital Absolute Encoder(BissC Mode)
Specification	
Drive Communication	EtherCat/CanOpen/Modbus
Max. Payload	600 kg
Net Weight	21 kg



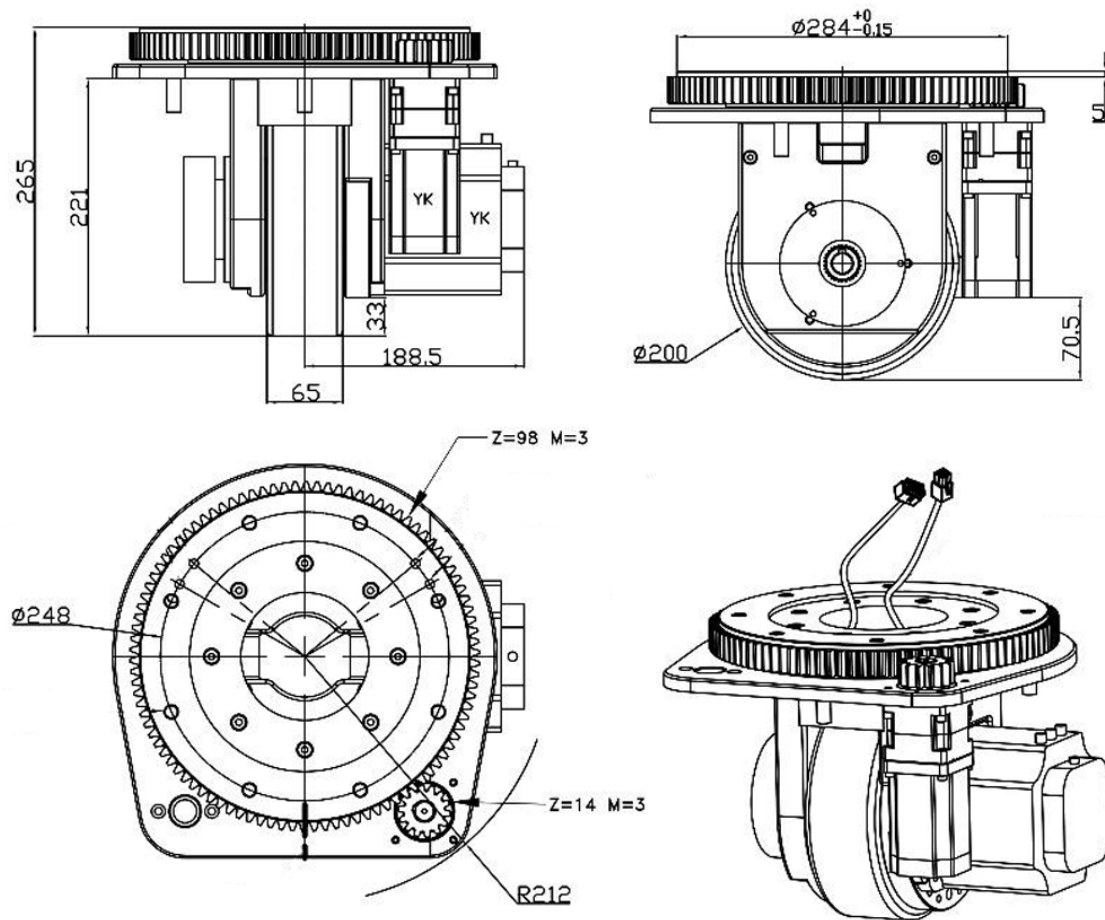
Model	AB-SW-D180-P1.5-C1000
Drive Motor	
Wheel Diameter	180 mm
Height	245 mm
Working Voltage	48 V
Rated Power	1.5 kW
Nominal Torque(Traction Motor)	4.77 N·m
Gear Ratio	24
Nominal Torque(Drive Motor)	97.38 N·m
RPM	3000
Encoder	Incremental Encoder(2500 lines)
Steering Motor	
Rated Power	0.2 kW
Bearing & Gear Ratio	265.5
Nominal Torque	0.32 N·m
RPM	3000
Max. Angle Limit	±120°
Encoder	Incremental Encoder(2500 lines)/ Absolute Encoder(NRZ Mode) /Posital Absolute Encoder(BissC Mode)
Specification	
Drive Communication	EtherCat/CanOpen/Modbus
Max. Payload	1000 kg
Net Weight	25 kg



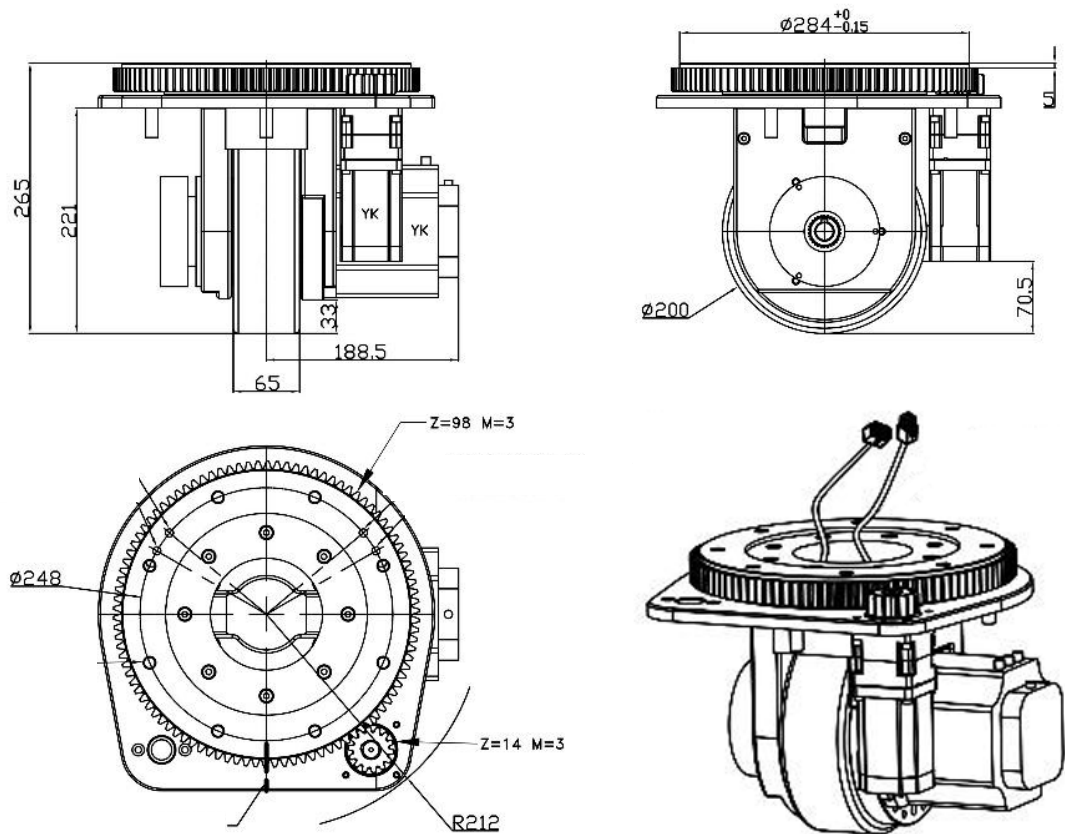
Model	AB-SW-D200-P0.75-C1000
Drive Motor	
Wheel Diameter	200 mm
Height	265 mm
Working Voltage	48 V
Rated Power	0.75 kW
Nominal Torque(Traction Motor)	2.40 N·m
Gear Ratio	50
Nominal Torque(Drive Motor)	102.00 N·m
RPM	3000
Encoder	Incremental Encoder(2500 lines)
Steering Motor	
Rated Power	0.2 kW
Bearing & Gear Ratio	265.5
Nominal Torque	0.64 N·m
RPM	3000
Max. Angle Limit	±120°
Encoder	Incremental Encoder(2500 lines)/ Absolute Encoder(NRZ Mode) /Posital Absolute Encoder(BissC Mode)
Specification	
Drive Communication	EtherCat/CanOpen/Modbus
Max. Payload	1000 kg
Net Weight	43 kg



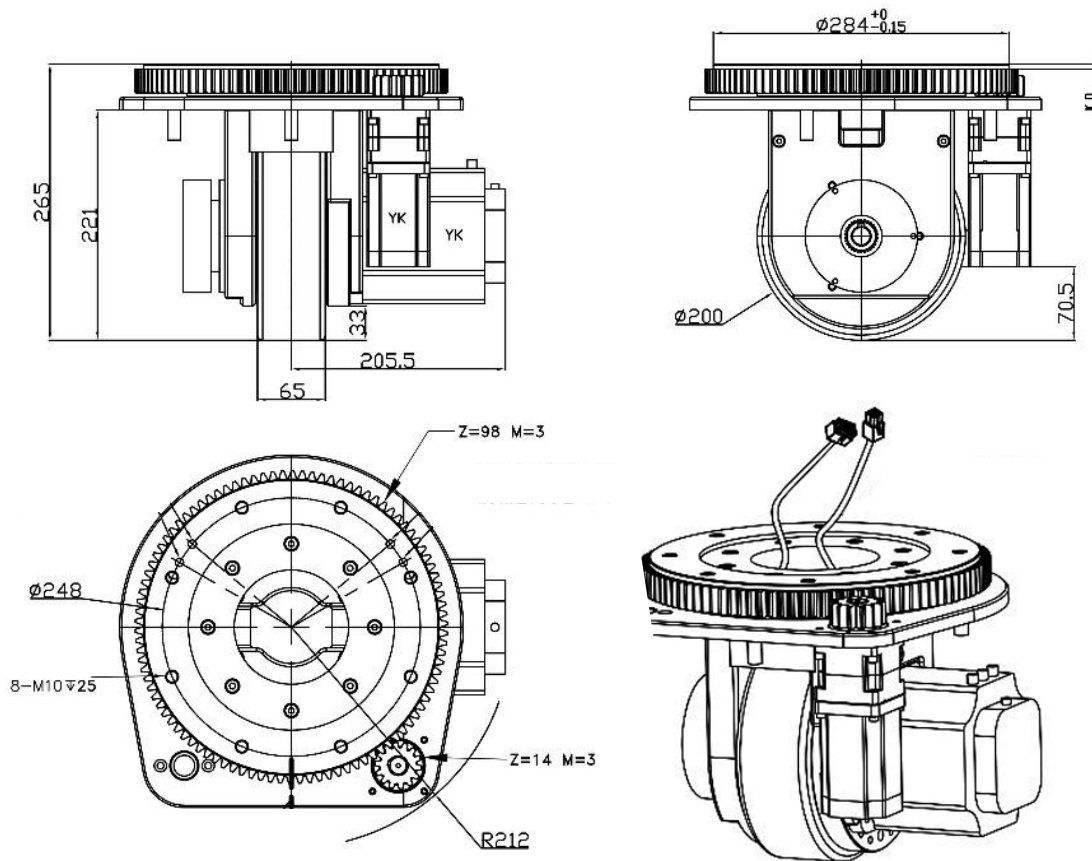
Model	AB-SW-D200-P1.0-C1500
Drive Motor	
Wheel Diameter	200 mm
Height	265 mm
Working Voltage	48 V
Rated Power	0.75 kW
Nominal Torque(Traction Motor)	2.40 N·m
Gear Ratio	50
Nominal Torque(Drive Motor)	102.00
RPM	3000
Encoder	Incremental Encoder(2500 lines)
Steering Motor	
Rated Power	0.4 kW
Bearing & Gear Ratio	220.5
Nominal Torque	1.28 N·m
RPM	3000
Max. Angle Limit	±120°
Encoder	Incremental Encoder(2500 lines) Absolute Encoder(NRZ Mode) Posital Absolute Encoder(BissC Mode)
Specification	
Drive Communication	EherCat/CanOpen/Modbus
Max. Payload	1500 kg
Net Weight	43 kg



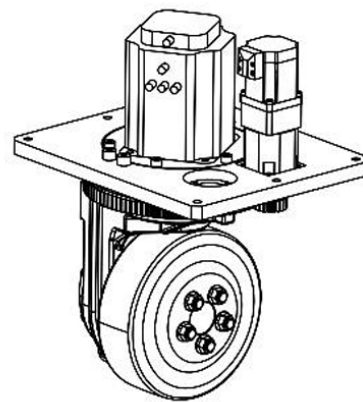
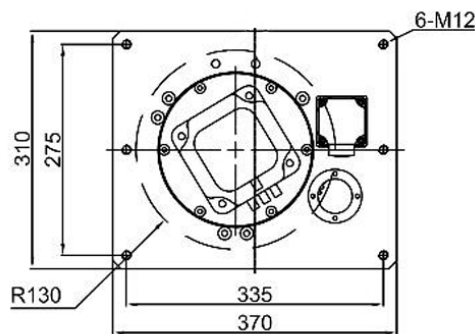
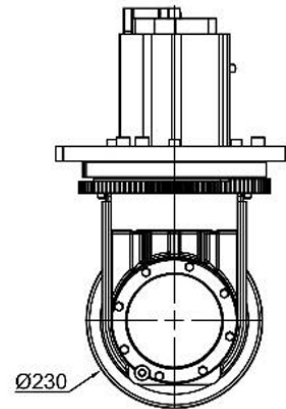
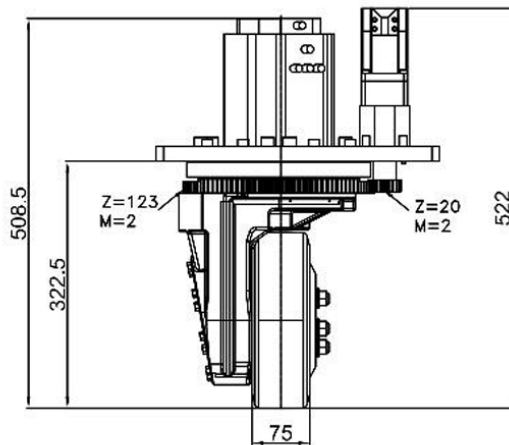
Model	AB-SW-D200-P1.0-C1000
Drive Motor	
Wheel Diameter	200 mm
Height	265 mm
Working Voltage	48 V
Rated Power	1.0 kW
Nominal Torque(Traction Motor)	3.20 N·m
Gear Ratio	24
Nominal Torque(Drive Motor)	65.28 N·m
RPM	3000
Encoder	Incremental Encoder(2500 lines)
Steering Motor	
Rated Power	0.2 kW
Bearing & Gear Ratio	265.5
Nominal Torque	1.28 N·m
RPM	3000
Max. Angle Limit	±120°
Encoder	Incremental Encoder(2500 lines)/ Absolute Encoder(NRZ Mode) /Posital Absolute Encoder(BissC Mode)
Specification	
Drive Communication	EherCat/CanOpen/Modbus
Max. Payload	1000 kg
Net Weight	43 kg



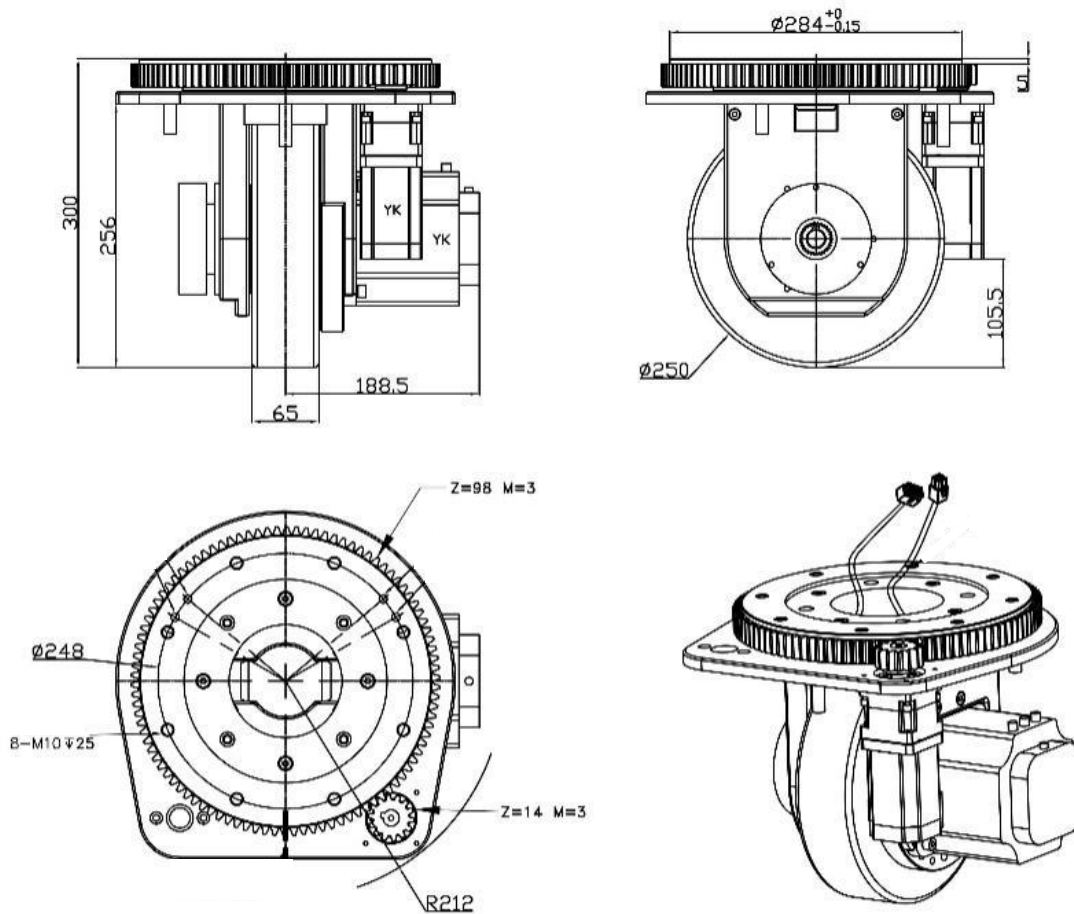
Model	AB-SW-D200-P1.5-C1500
Drive Motor	
Wheel Diameter	200 mm
Height	265 mm
Working Voltage	48 V
Rated Power	1.5 kW
Nominal Torque(Traction Motor)	4.77 N·m
Gear Ratio	32
Nominal Torque(Drive Motor)	129.74 N·m
RPM	3000
Encoder	Incremental Encoder(2500 lines)
Steering Motor	
Rated Power	0.4 kW
Bearing & Gear Ratio	220.5
Nominal Torque	1.28 N·m
RPM	3000
Max. Angle Limit	±120°
Encoder	Incremental Encoder(2500 lines)/ Absolute Encoder(NRZ Mode) /Posital Absolute Encoder(BissC Mode)
Specification	
Drive Communication	EtherCat/CanOpen/Modbus
Max. Payload	1500 kg
Net Weight	43 kg



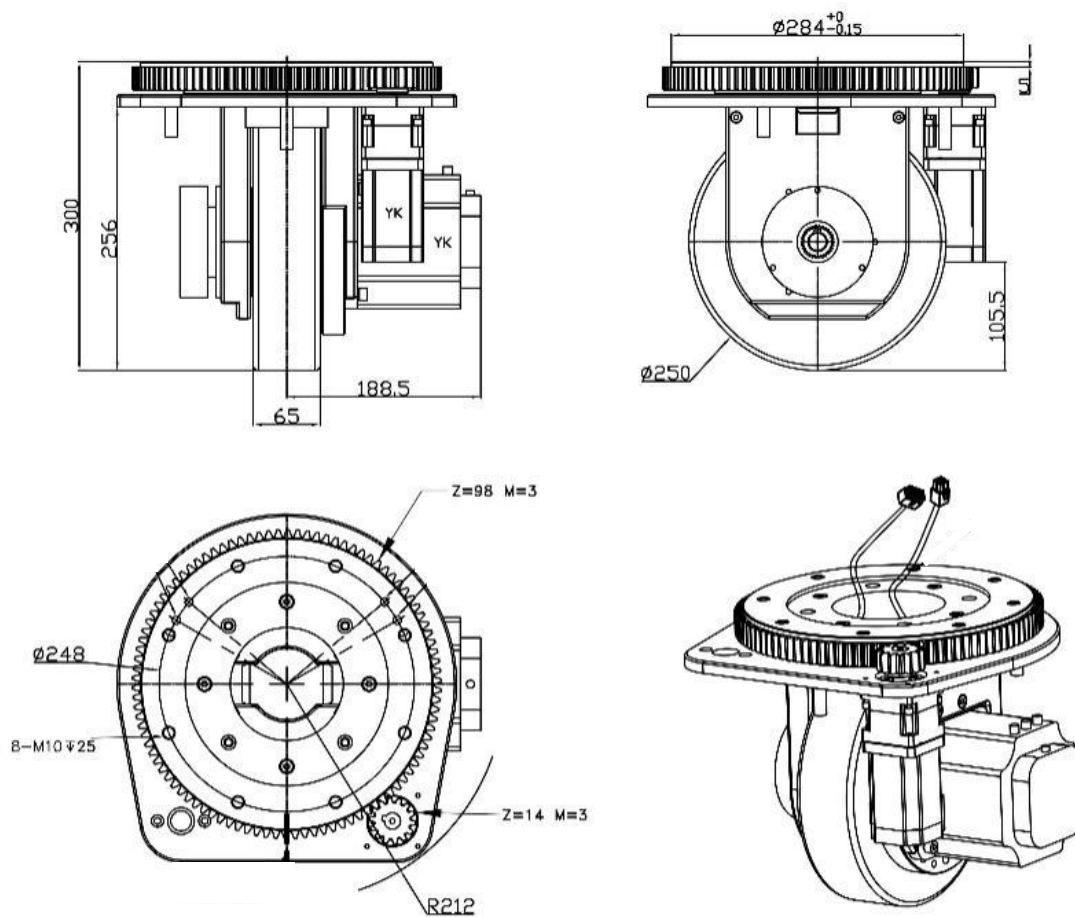
Model	AB-SW-D200-P3.0-C1500
Drive Motor	
Wheel Diameter	200 mm
Height	265 mm
Working Voltage	48 V
Rated Power	3.0 kW
Nominal Torque(Traction Motor)	9.50 N·m
Gear Ratio	24
Nominal Torque(Drive Motor)	193.80 N·m
RPM	3000
Encoder	Incremental Encoder(2500 lines)
Steering Motor	
Rated Power	0.4 kW
Bearing & Gear Ratio	220.5
Nominal Torque	1.28 N·m
RPM	3000
Max. Angle Limit	±120°
Encoder	Incremental Encoder(2500 lines)/ Absolute Encoder(NRZ Mode) /Posital Absolute Encoder(BissC Mode)
Specification	
Drive Communication	EtherCat/CanOpen/Modbus
Max. Payload	1500 kg
Net Weight	43 kg



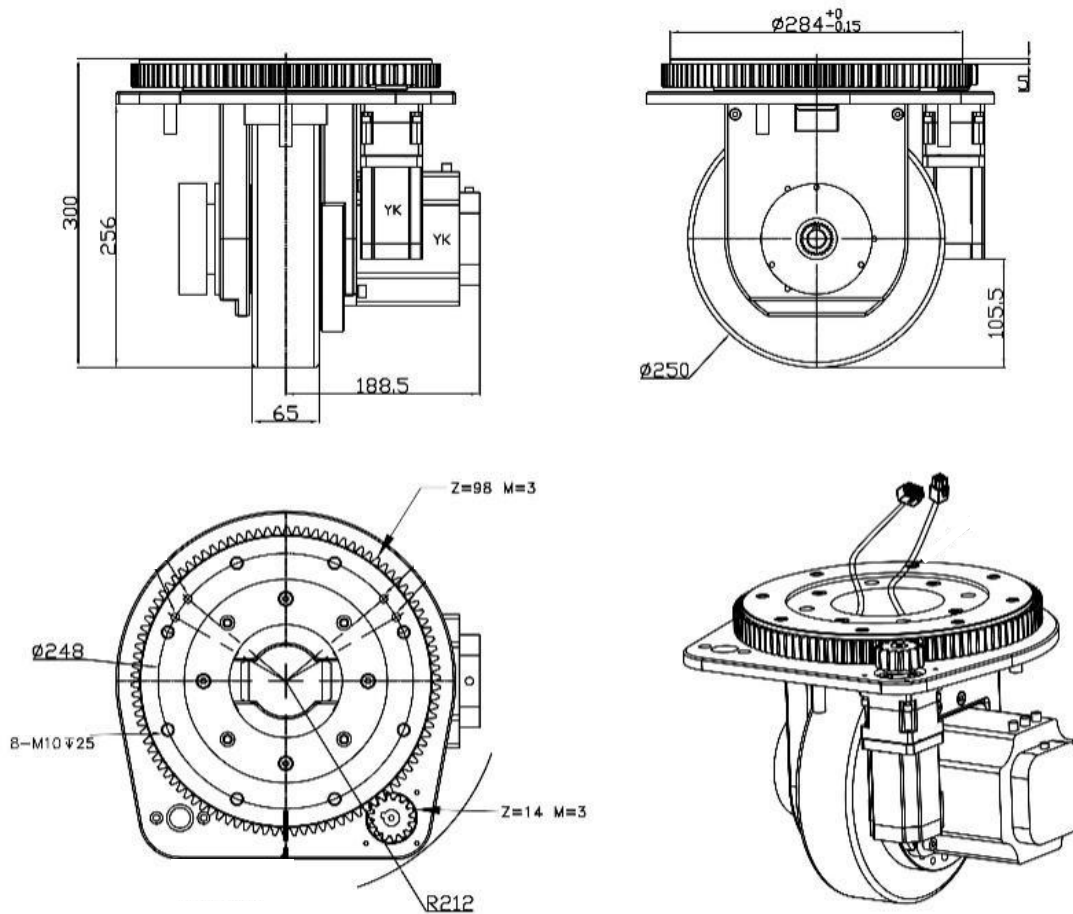
Model	AB-SW-D230-P3.0-C1500
Drive Motor	
Wheel Diameter	230 mm
Height	508.5 mm
Working Voltage	48 V
Rated Power	3.0 kW
Nominal Torque(Traction Motor)	9.50 N·m
Gear Ratio	22/27
Nominal Torque(Drive Motor)	177.65/218.03 N·m
RPM	3000
Encoder	Incremental Encoder(2500 lines)
Steering Motor	
Rated Power	0.4 kW
Bearing & Gear Ratio	307.5
Nominal Torque	1.28 N·m
RPM	3000
Max. Angle Limit	±130°
Encoder	Incremental Encoder(2500 lines)/ Absolute Encoder(NRZ Mode) /Posital Absolute Encoder(BissC Mode)
Specification	
Drive Communication	EtherCat/CanOpen/Modbus
Max. Payload	1500 kg
Net Weight	80 kg



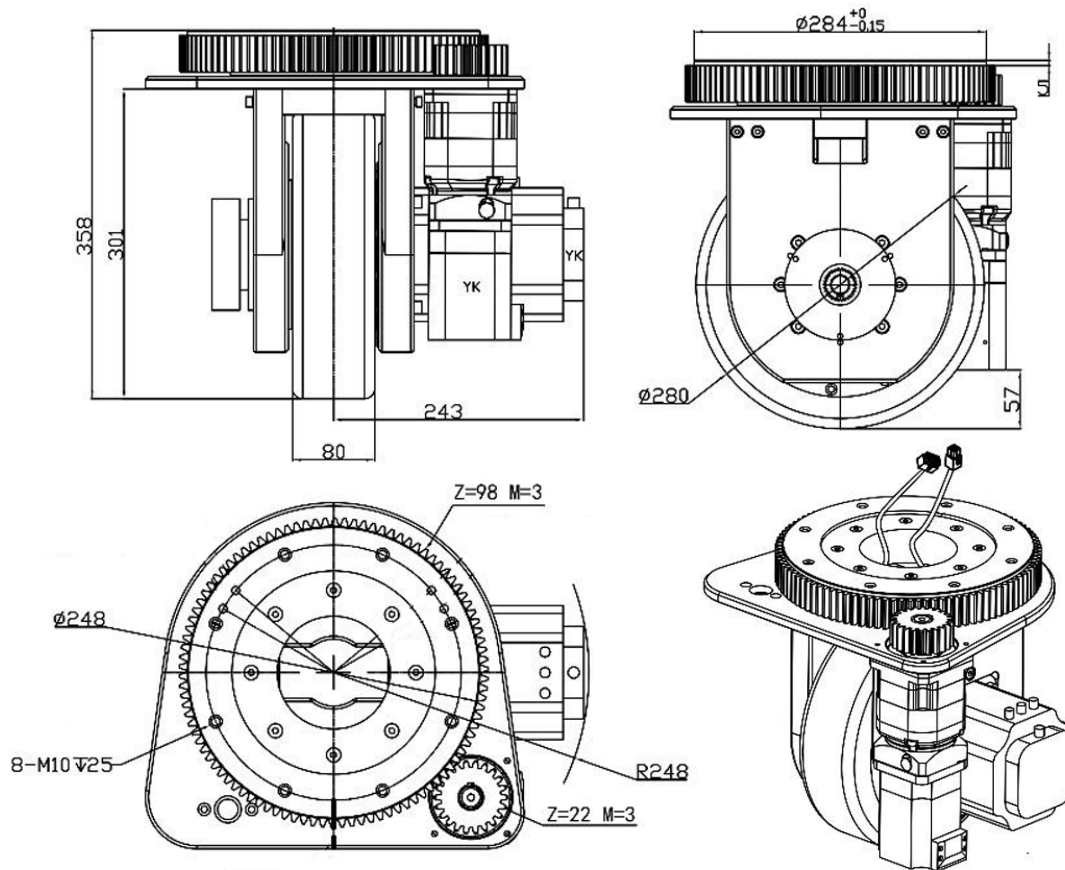
Model	AB-SW-D250-P1.0-C1000
Drive Motor	
Wheel Diameter	250 mm
Height	300 mm
Working Voltage	24/48 V
Rated Power	1.0 kW
Nominal Torque(Traction Motor)	4.77/3.20 N·m
Gear Ratio	24/32
Nominal Torque(Drive Motor)	97.31/65.28/129.74/87.04 N·m
RPM	2000/3000
Encoder	Incremental Encoder(2500 lines)
Steering Motor	
Rated Power	0.4/0.2 kW
Bearing & Gear Ratio	220.5/265.5
Nominal Torque	1.28/0.64 N·m
RPM	3000
Max. Angle Limit	±120°
Encoder	Incremental Encoder(2500 lines)/ Absolute Encoder(NRZ Mode) /Posital Absolute Encoder(BissC Mode)
Specification	
Drive Communication	EtherCat/CanOpen/Modbus
Max. Payload	1000 kg
Net Weight	43 kg



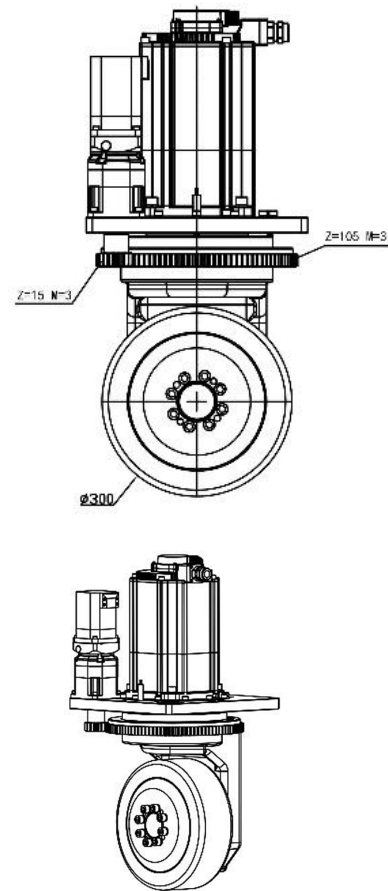
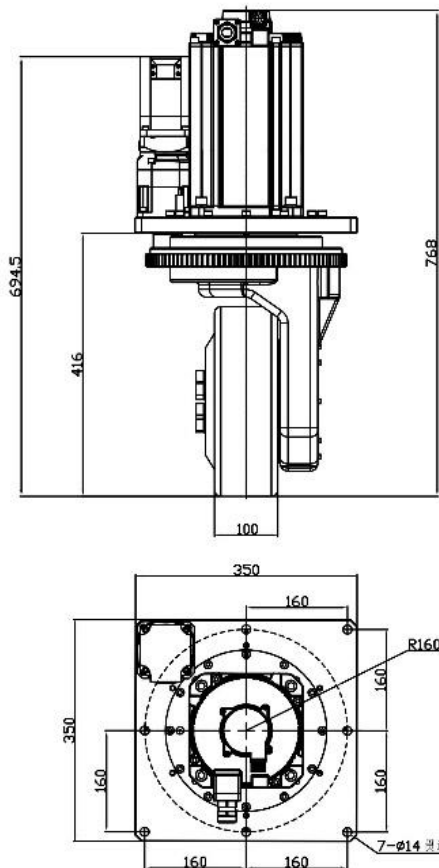
Model	AB-SW-D250-P1.5-C1500
Drive Motor	
Wheel Diameter	250 mm
Height	300 mm
Working Voltage	48 V
Rated Power	1.5 kW
Nominal Torque(Traction Motor)	6.00/4.77 N·m
Gear Ratio	24/32
Nominal Torque(Drive Motor)	122.40/163.20/97.31/129.74 N·m
RPM	2500/3000
Encoder	Incremental Encoder(2500 lines)
Steering Motor	
Rated Power	0.4 kW
Bearing & Gear Ratio	220.5
Nominal Torque	1.28 N·m
RPM	3000
Max. Angle Limit	±120°
Encoder	Incremental Encoder(2500 lines)/ Absolute Encoder(NRZ Mode) /Posital Absolute Encoder(BissC Mode)
Specification	
Drive Communication	EtherCat/CanOpen/Modbus
Max. Payload	1500 kg
Net Weight	43 kg



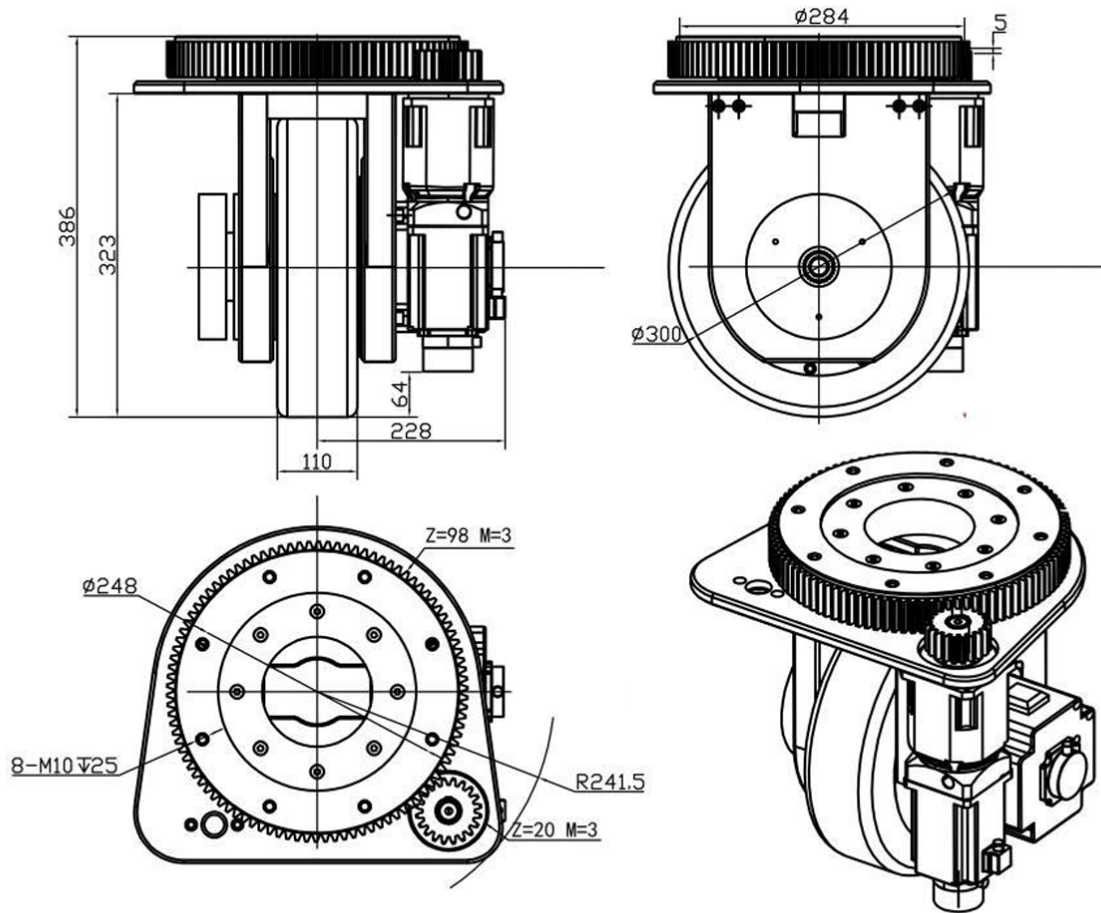
Model	AB-SW-D250-P3.0-C1500
Drive Motor	
Wheel Diameter	250 mm
Height	300 mm
Working Voltage	48 V
Rated Power	3.0 kW
Nominal Torque(Traction Motor)	13.50/9.50 N·m
Gear Ratio	24/32
Nominal Torque(Drive Motor)	275.40/193.80/367.20/258.40 N·m
RPM	2000/3000
Encoder	Incremental Encoder(2500 lines)
Steering Motor	
Rated Power	0.4/0.2 kW
Bearing & Gear Ratio	220.5/265.5
Nominal Torque	1.28/0.64 N·m
RPM	3000
Max. Angle Limit	±120°
Encoder	Incremental Encoder(2500 lines)/ Absolute Encoder(NRZ Mode) /Posital Absolute Encoder(BissC Mode)
Specification	
Drive Communication	EherCat/CanOpen/Modbus
Max. Payload	1500 kg
Net Weight	48 kg



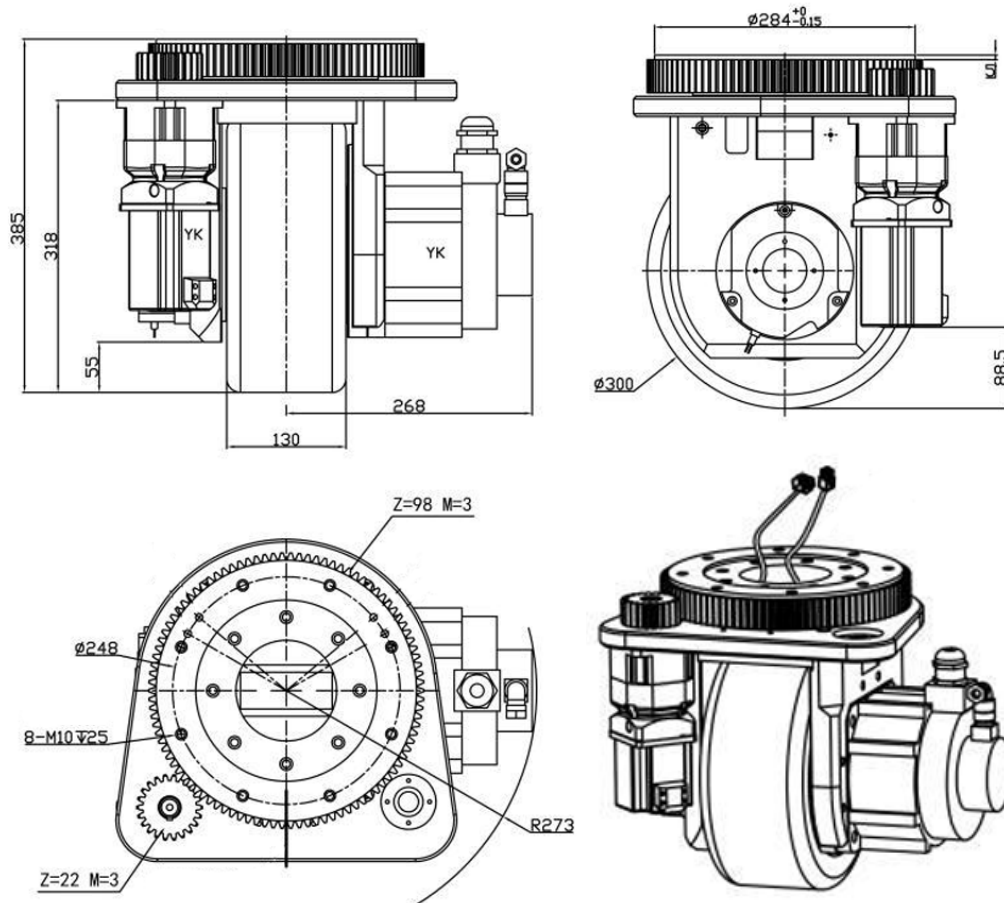
Model	AB-SW-D280-P3.0-C3000
Drive Motor	
Wheel Diameter	280 mm
Height	358 mm
Working Voltage	48 V
Rated Power	3.0 kW
Nominal Torque(Traction Motor)	13.50/9.50 N·m
Gear Ratio	11/22
Nominal Torque(Drive Motor)	126.23/88.83/126.23/177.65 N·m
RPM	3000
Encoder	Incremental Encoder(2500 lines)
Steering Motor	
Rated Power	0.75 kW
Bearing & Gear Ratio	245
Nominal Torque	2.39 N·m
RPM	3000
Max. Angle Limit	±120°
Encoder	Incremental Encoder(2500 lines)/ Absolute Encoder(NRZ Mode) /Posital Absolute Encoder(BissC Mode)
Specification	
Drive Communication	EtherCat/CanOpen/Modbus
Max. Payload	3000 kg
Net Weight	80 kg



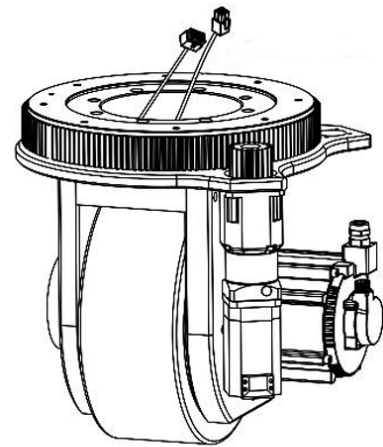
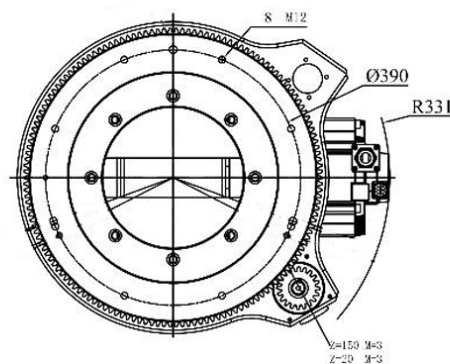
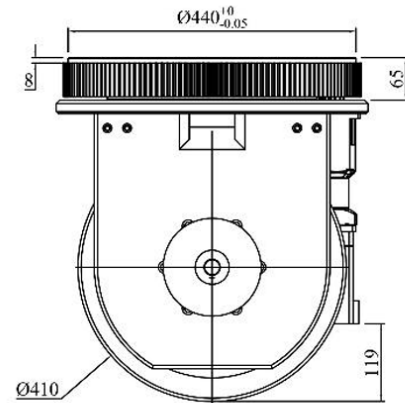
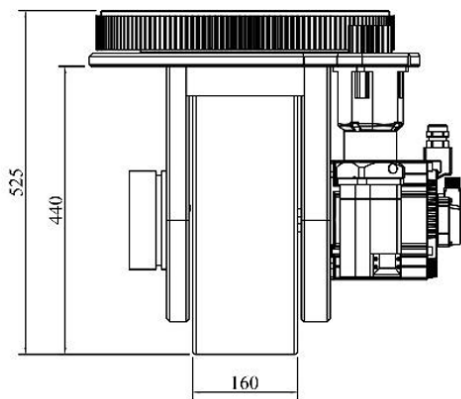
Model	AB-SW-D300-P4.0/5.0-C2000
Drive Motor	
Wheel Diameter	300 mm
Height	768 mm
Working Voltage	48 V
Rated Power	4.0/5.0 kW
Nominal Torque(Traction Motor)	19.50 N·m
Gear Ratio	11/22
Nominal Torque(Drive Motor)	182.33/ 364.65 N·m
RPM	2000/2500
Encoder	Incremental Encoder(2500 lines)
Steering Motor	
Rated Power	0.75 kW
Bearing & Gear Ratio	262.5
Nominal Torque	2.39 N·m
RPM	3000
Max. Angle Limit	±180°
Encoder	Incremental Encoder(2500 lines)/ Absolute Encoder(NRZ Mode) /Posital Absolute Encoder(BissC Mode)
Specification	
Drive Communication	EherCat/CanOpen/Modbus
Max. Payload	2000 kg
Net Weight	95 kg



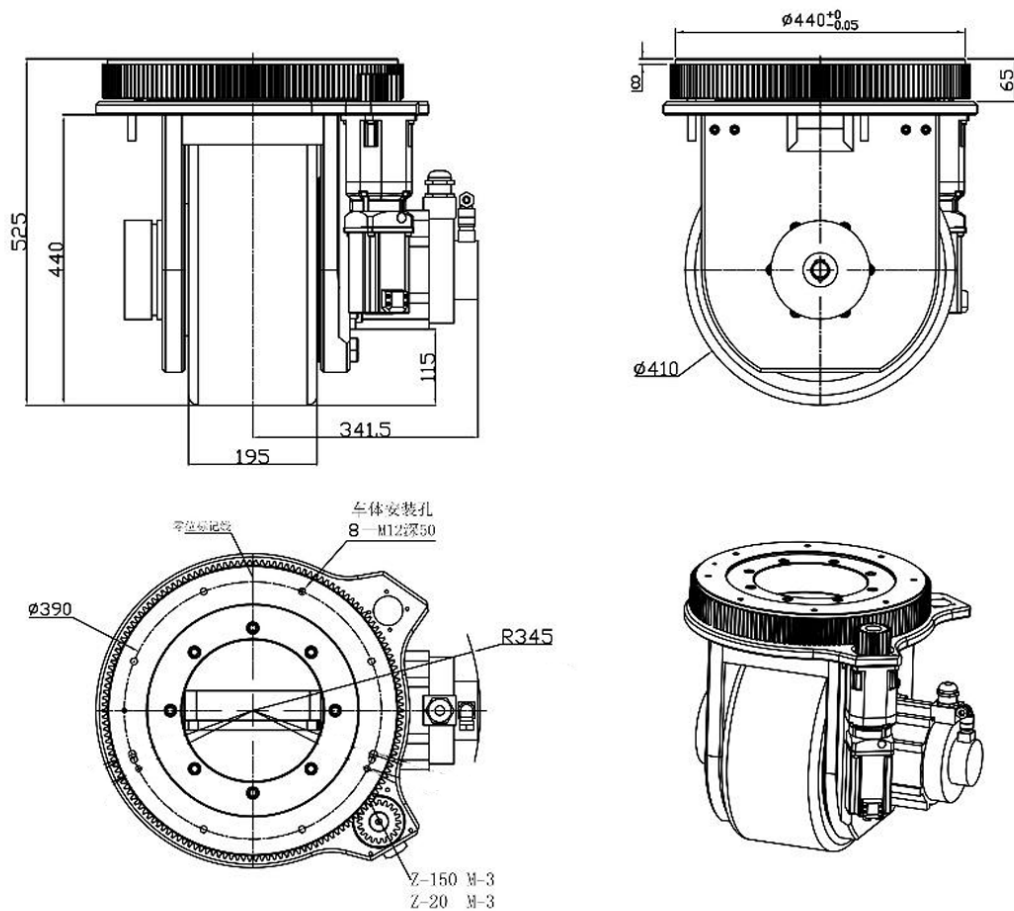
Model	AB-SW-D300-P3.0-C3000
Drive Motor	
Wheel Diameter	300 mm
Height	386 mm
Working Voltage	48 V
Rated Power	3.0 kW
Nominal Torque(Traction Motor)	9.50 N·m
Gear Ratio	40
Nominal Torque(Drive Motor)	323.00 N·m
RPM	3000
Encoder	Incremental Encoder(2500 lines)
Steering Motor	
Rated Power	0.75 kW
Bearing & Gear Ratio	245
Nominal Torque	2.39 N·m
RPM	3000
Max. Angle Limit	±120°
Encoder	Incremental Encoder(2500 lines)/ Absolute Encoder(NRZ Mode) /Posital Absolute Encoder(BissC Mode)
Specification	
Drive Communication	EtherCat/CanOpen/Modbus
Max. Payload	3000 kg
Net Weight	80 kg



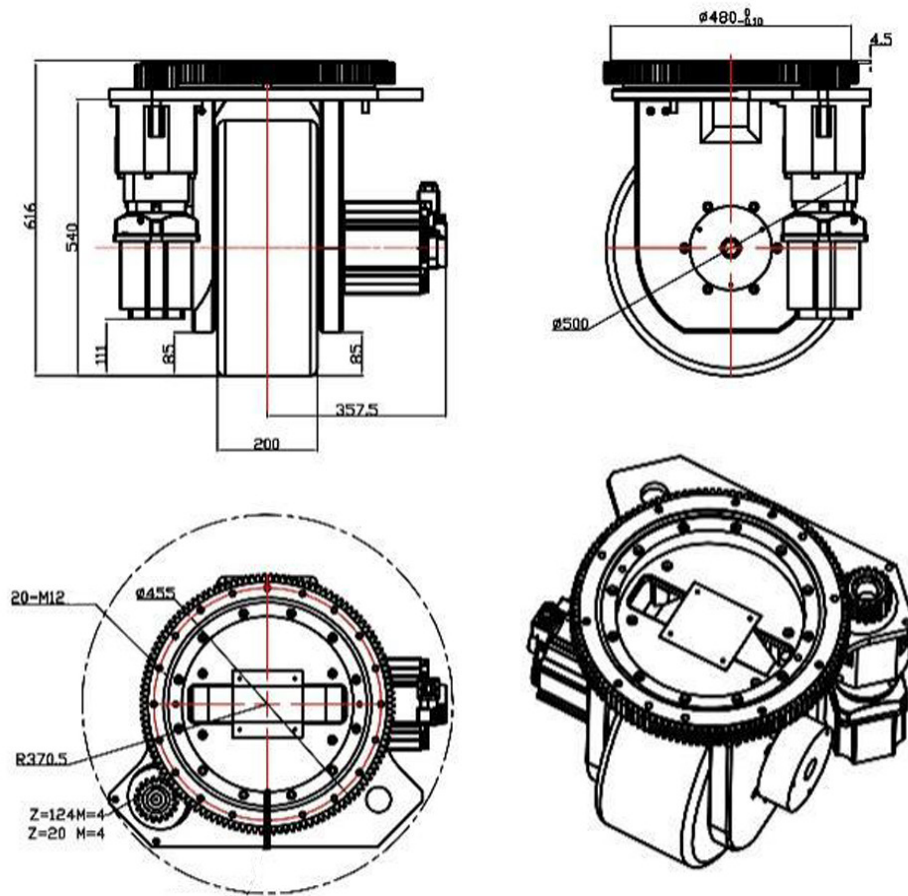
Model	AB-SW-D300-P4.0/5.0-C3500
Drive Motor	
Wheel Diameter	300 mm
Height	385 mm
Working Voltage	48 V
Rated Power	4.0/5.0 kW
Nominal Torque(Traction Motor)	19.50 N·m
Gear Ratio	60
Nominal Torque(Drive Motor)	994.50 N·m
RPM	2000/2500
Encoder	Incremental Encoder(2500 lines)
Steering Motor	
Rated Power	1.0 kW
Bearing & Gear Ratio	245
Nominal Torque	3.2 N·m
RPM	3000
Max. Angle Limit	±120°
Encoder	Incremental Encoder(2500 lines)/ Absolute Encoder(NRZ Mode) /Posital Absolute Encoder(BissC Mode)
Specification	
Drive Communication	EtherCat/CanOpen/Modbus
Max. Payload	3500 kg
Net Weight	95 kg



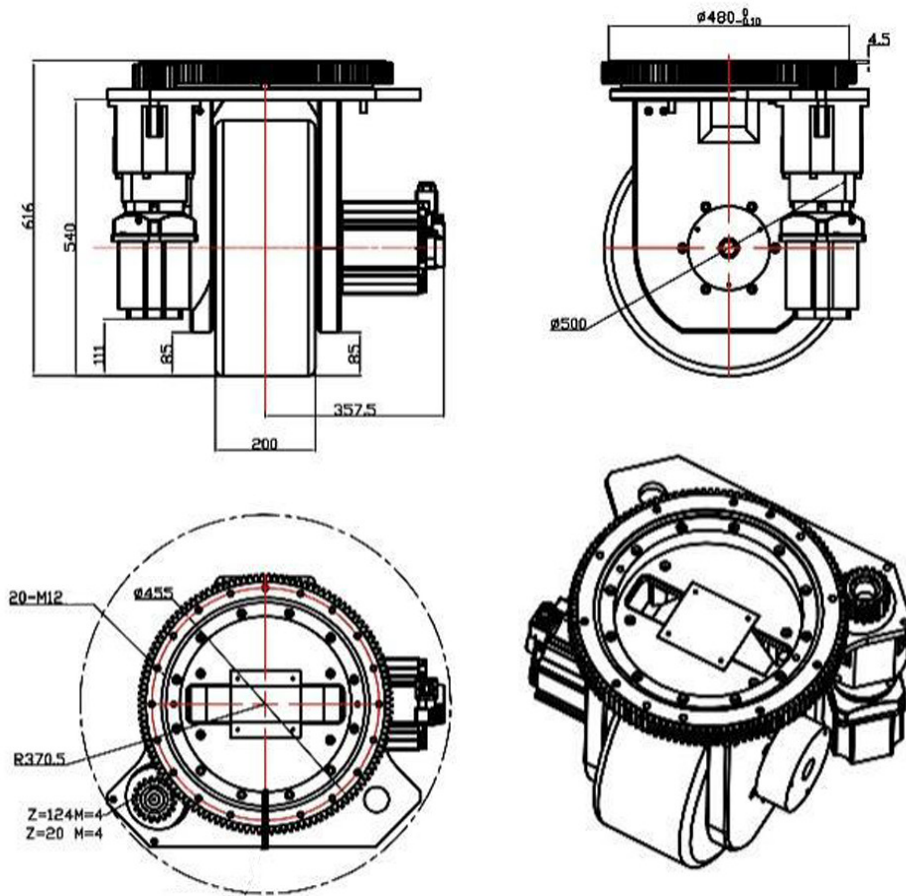
Model	AB-SW-D410-P4.3-C4500
Drive Motor	
Wheel Diameter	410 mm
Height	525 mm
Working Voltage	48 V
Rated Power	4.3 kW
Nominal Torque(Traction Motor)	27.00 N·m
Gear Ratio	70/100
Nominal Torque(Drive Motor)	1606.50/2295.00 N·m
RPM	1500
Encoder	Incremental Encoder(2500 lines)
Steering Motor	
Rated Power	1.0 kW
Bearing & Gear Ratio	750
Nominal Torque	3.2 N·m
RPM	3000
Max. Angle Limit	±110°
Encoder	Incremental Encoder(2500 lines)/ Absolute Encoder(NRZ Mode) /Posital Absolute Encoder(BissC Mode)
Specification	
Drive Communication	EtherCat/CanOpen/Modbus
Max. Payload	4500 kg
Net Weight	200 kg



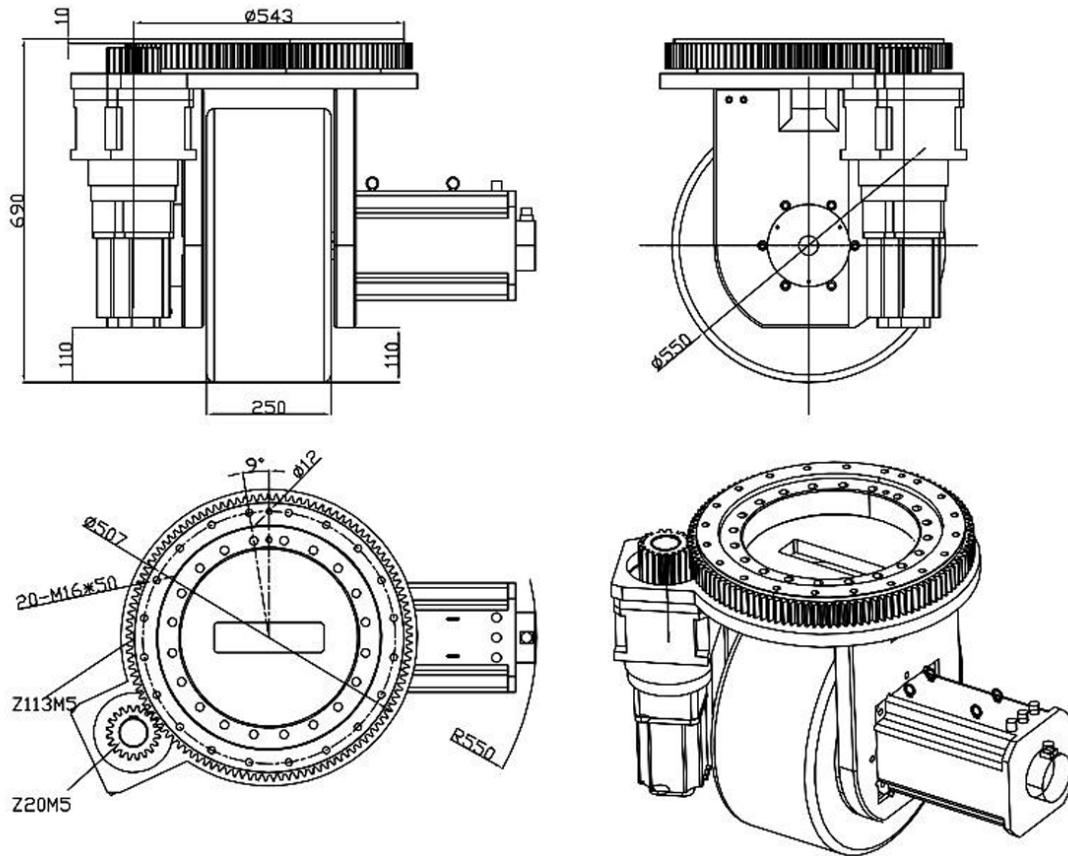
Model	AB-SW-D410-P5.7-C4500
Drive Motor	
Wheel Diameter	410 mm
Height	525 mm
Working Voltage	48 V
Rated Power	5.7 kW
Nominal Torque(Traction Motor)	27.00 N·m
Gear Ratio	70/100
Nominal Torque(Drive Motor)	1606.50/2295.00N·m
RPM	2000
Encoder	Incremental Encoder(2500 lines)
Steering Motor	
Rated Power	1.0 kW
Bearing & Gear Ratio	750
Nominal Torque	3.2 N·m
RPM	3000
Max. Angle Limit	±110°
Encoder	Incremental Encoder(2500 lines)/ Absolute Encoder(NRZ Mode) /Posital Absolute Encoder(BissC Mode)
Specification	
Drive Communication	EtherCat/CanOpen/Modbus
Max. Payload	4500 kg
Net Weight	200 kg



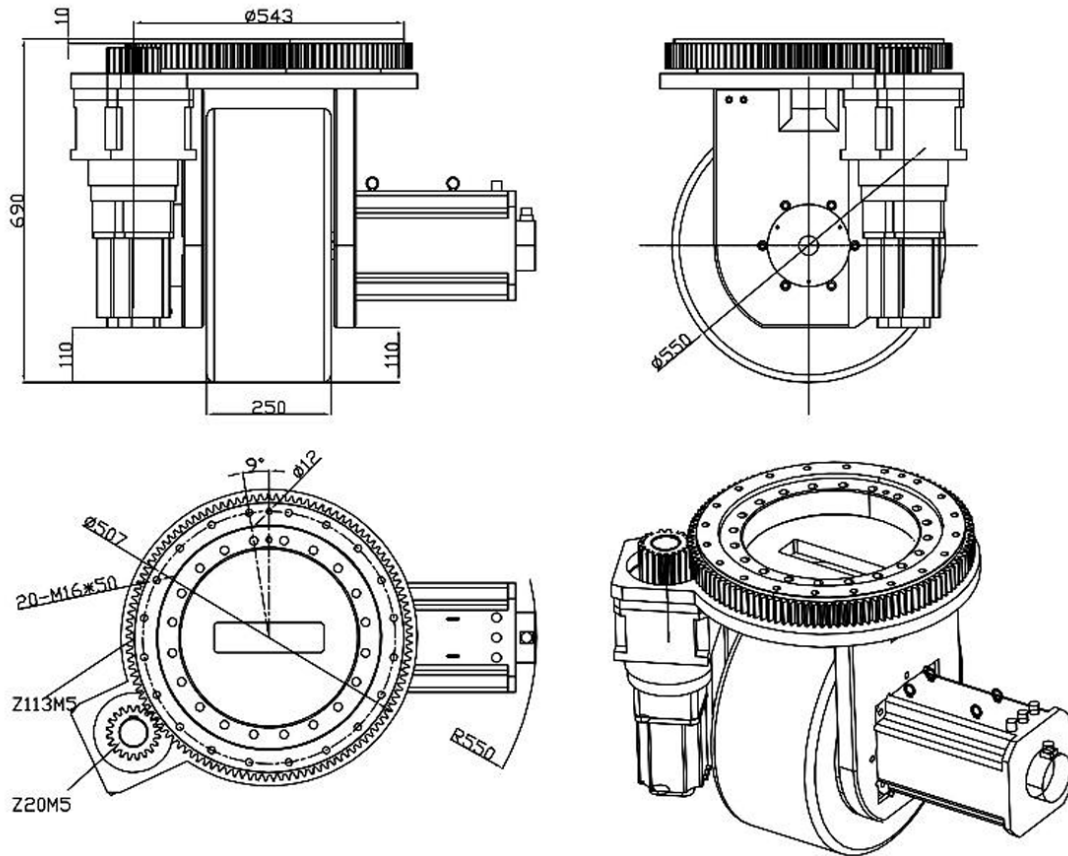
Model	AB-SW-D500-P5.5-C6000
Drive Motor	
Wheel Diameter	500 mm
Height	616 mm
Working Voltage	48 V
Rated Power	5.5 kW
Nominal Torque(Traction Motor)	36.00 N·m
Gear Ratio	70
Nominal Torque(Drive Motor)	2142.00 N·m
RPM	1500
Encoder	Incremental Encoder(2500 lines)
Steering Motor	
Rated Power	1.5/3 kW
Bearing & Gear Ratio	375/372
Nominal Torque	4.77/9/54 N·m
RPM	3000
Max. Angle Limit	±120°
Encoder	Incremental Encoder(2500 lines)/ Absolute Encoder(NRZ Mode) Posital Absolute Encoder(BissC Mode)
Specification	
Drive Communication	EtherCat/CanOpen/Modbus
Max. Payload	6000 kg
Net Weight	350 kg



Model	AB-SW-D500-P7.5-C6000/10000
Drive Motor	
Wheel Diameter	500 mm
Height	616 mm
Working Voltage	48 V
Rated Power	7.5 kW
Nominal Torque(Traction Motor)	48.00 N·m
Gear Ratio	120
Nominal Torque(Drive Motor)	4896.00 N·m
RPM	1500/3000
Encoder	Incremental Encoder(2500 lines)
Steering Motor	
Rated Power	1.5/3 kW
Bearing & Gear Ratio	375/372
Nominal Torque	4.77/9/54 N·m
RPM	3000
Max. Angle Limit	±120°
Encoder	Incremental Encoder(2500 lines)/ Absolute Encoder(NRZ Mode) /Posital Absolute Encoder(BissC Mode)
Specification	
Drive Communication	EtherCat/CanOpen/Modbus
Max. Payload	6000/10000 kg
Net Weight	350 kg



Model	AB-SW-D550-P7.5-C15000
Drive Motor	
Wheel Diameter	550 mm
Height	690 mm
Working Voltage	96 V
Rated Power	7.5 kW
Nominal Torque(Traction Motor)	48.00 N·m
Gear Ratio	120
Nominal Torque(Drive Motor)	4896.00 N·m
RPM	1500
Encoder	Incremental Encoder(2500 lines)
Steering Motor	
Rated Power	3 kW
Bearing & Gear Ratio	565
Nominal Torque	9.5 N·m
RPM	3000
Max. Angle Limit	±120°
Encoder	Posital Absolute Encoder(BissC Mode)
Specification	
Drive Communication	EtherCat/CanOpen/Modbus
Max. Payload	15000 kg
Net Weight	450 kg



Model	AB-SW-D550-P20-C15000
Drive Motor	
Wheel Diameter	550 mm
Height	690 mm
Working Voltage	96 V
Rated Power	20 kW
Nominal Torque(Traction Motor)	98.00 N·m
Gear Ratio	40
Nominal Torque(Drive Motor)	3332.00 N·m
RPM	2000
Encoder	Incremental Encoder(2500 lines)
Steering Motor	
Rated Power	3 kW
Bearing & Gear Ratio	565
Nominal Torque	9.5 N·m
RPM	3000
Max. Angle Limit	±120°
Encoder	Posital Absolute Encoder(BissC Mode)
Specification	
Drive Communication	EtherCat/CanOpen/Modbus
Max. Payload	15000 kg
Net Weight	450 kg

