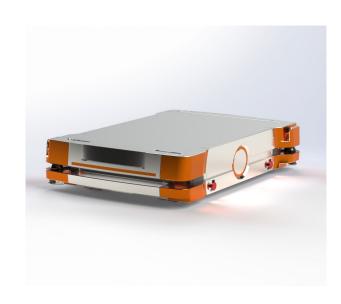


AURORA YOUR RELIABLE AUTONOMOUS TRANSPORTER

AURORA is an autonomous mobile robot designed for efficient transportation in commercial and residential environments

It offers advanced navigation, a compact, durable design, and a cost-effective, sustainable solution for indoor logistics.





AX 35

Physical Dimensions and Structure

• Overall Dimensions: 50 cm x 40 cm x 30 cm

• Chassis: Aluminium

• Shell: PLA and TPU (shock absorbing)

• Vehicle Weight: 15 kg

• Payload: 35 kg

Movement: Omnidirectional

Motors and Wheels

• **Motors**: 4 x 0.7 Nm torque, 185 RPM planetary gear motors

Wheels: 4 x 100 mm Omni Aluminium

Power Output per Motor: 24 W
 Total Power Output: 96 W

Max Speed: 1.5 m/sAcceleration: 0.8 sec



Power System

• Battery: Pro-range IFR 32650 14.8V 6Ah LiFePO4

Charger: HTRC-P20 Smart Battery Charger
 Charging Time: Approximately 15 mins
 Estimated Runtime: Approximately 1.5 hrs

Electronic Components and Features

Control Unit: Raspberry Pi 5

Sensors: GPS, camera, and additional sensors

Anti theft Sirens

Emergency Stop

• Pedestrian Collision Warning



AX 200

Physical Dimensions and Structure

• Overall Dimensions: 90 x 60 cm x 25 cm

• Chassis: Aluminium 6061-T6

• Shell: PETG

• Vehicle Weight: 70 kg

Payload: 200 kg

Movement: Omnidirectional

Motors and Wheels

Motors: 6 x 1.8 Nm torque, 148 RPM planetary gear motors

Wheels: 6 x 100mm Omni Wheel
 Power Output per Motor: 27 W
 Total Power Output: 168 W
 Max Speed: 1.5m/s or 5 km/hr

• Acceleration: 0.5 sec



Power System

 Battery: Pro-range IFR 32650 25.6V 24Ah LiFePO4

Charger: FOXSUR Battery Charger

Estimated Runtime: Approximately 12 hours

Charging Time: Approximately 5 hours

Electronic Components and Features

- Control Unit: NVIDIA Jetson Nano module
- Sensors: GPS, camera, and additional sensors
- Emergency Stop
- Pedestrian Collision Warning

LINK: www.autonomx.shop



AX 35 AX 200

MODEL	BRAND/TYPE	SPECS	COST/PIECE	QUANTITY	COST	
Motor	Planetary DC Motor	12V 185RPM 72.5 N-cm	2400	4	9600	
Motor Driver	Brushless Motor Controller	5-35V 2A	150	4	600	
Battery 1	Pro-range LiFePO4 Battery	14.8V 4000mAh	1500	1	1500	
Battery 2	Orange ICR18650	3.7V 2500mAh	300	5	1500	
Charger	HTRC P20 Charger	12V20A	5000	1	5000	
Motherboard	Raspberry Pi 4	4 GB RAM	5000	1	5000	
Chassis	Aluminium	6061 T6	2500	1	2500	
Body	3D Printing	PLA	6000	1	6000	0 0
Wheel	Omni Aluminium	100x40mm	1600	4	6400	
Lidar	YDLIDAR X4 2D LiDAR Sensor	2D,360°,12 m Range	7500	1	7500	
Camera	YDLIDAR X4	360 Degree ROS Scanner	10000	1	10000	
Miscellaneous			5000	1	5000	
		TOTAL	60600			

MODEL	BRAND/TYPE	SPECS	COST/PIECE	QUANTITY	COST	
Motor	Planetary DC Motor	24V 148RPM 183 N-cm	5000 6		30000	
Motor Driver	Brushless Motor Controller	12-36V 20A	1200	6	7200	
Battery 1	Pro-range LiFePO4 Battery	25.6V 24000mAh	12500 3		37500	
Battery 2	Orange ICR18650	3.7V 2500mAh	300 5		1500	
Charger	FOXSUR Battery Charger	24V15A	8000	8000 1		
Motherboard	NVIDIA Jetson Nano Dev Kit-B01	4 GB RAM	23000	1	23000	
	Raspberry Pi 5	8 GB RAM	9000	1	9000	
Chassis	Aluminium	6061 T6	15000	1	15000	
Body	3D Printing	PLA	10000	1	10000	
Wheel	Omni Aluminium	100x40mm	4200	6	25200	
Lidar	YDLIDAR G2 360° 2D LiDAR Sensor	2D,360°,12 m Range	15000	1	15000	
Camera	YDLIDAR OS30A Depth Cam	1280*920 high-resolution	12000 1		12000	
Miscellaneous			15000	1	15000	
		TOTAL		208400		



LEAN CANVAS

Problem	Solution	Unique Value	Proposition	Unfair Advantage	Customer Segments	
 Safety Concerns Expensive Time Inefficiency 	 Autonomous Navigation Load-Lifting Mechanism Smart home and warehouse Integration 	"Autonomous, reliable transpo hassle-free eve	ortation for a	Proprietary technology and design make it difficult to replicate or compete with.	 Elderly People E Commerce Small to Medium Enterprises 	
Existing Alternative	Key Metrics			Channels	Early Adopters	
 Traditional manual carts Human labor Less advanced autonomous robots 	 Sales Performance Customer Satisfaction Market Penetration 			 Online Sales Retail Partnerships Social Media 	 Old Age Homes Small scale Warehouses. Commercial Businesses 	
Cost Structure And Revenue Model			Cost Structu	re And Revenue Model		
AX-35 Customer Acquisition Cost : Pc 75 000			Customer Acquisition Cost : Pc 700 000			

Customer Acquisition Cost: Rs 75,000 Manufacturing Cost: Rs 60,000 Gross Margin: 20%

Customer Acquisition Cost: Rs 700,000 Manufacturing Cost: Rs 400,000 Distribution costs: Rs 80,000 per month

Man Power and R&D: Rs 100,000 per month Gross Margin: 40%