



Technology Innovate Logistics!





KOLE will continue to collaborate with you to realize the standard, efficient, flexible, integrated, and intelligent logistics, to provide innovative solutions that achieve your actual needs for smart intralogistics operations.

BRAND PROFILE

KOLE brand founded in Singapore, committed to applying global leading AI technologies, drone swarm control systems, and advanced algorithms to the field of logistics robotics. Through innovative and optimized solutions, we drive the intelligent transformation of global logistics, creating a new era of smart logistics.

With our core philosophy, KOLE team has successfully developed, manufactured, and launched revolutionary products, including the Lightweight ASR-Container Warehouse Robot, the Heavy-duty ASR-Pallet Stacking Robot, and a complete suite of automated warehousing hardware and software systems. Upon their release, the ASR series of robotics solutions attracted widespread attention from global industries and won multiple international awards this year.

KOLE will always be in line with the purpose of "Technology Innovate Logistics", to build a scenario-based and conceptual logistics robot ecological industry system. Our solutions serve a wide range of industries, including Manufacturing, Retail, Fashion, Pharmaceuticals, 3PL, E-commerce, New Energy, Food & Beverage, Cold chain, Agriculture, and more.



Automatic Storage Robot (ASR)

T-Series for tote solution



KOLE Automatic Storage Robot (ASR-T Series) is a highly automated container-to-person picking solution.

ASR can intelligently walk within the warehouse space and has functions such as autonomous navigation, active obstacle avoidance, and automatic charging.



Intelligent



Flexible



Efficient



ASR

Leading the New Technology of Intelligent Logistics

Model		T-40 (4 Meters Height)	T-60 (6 Meters Height)
Basic Specification	Dimensions(L×W×Hmm)	1615×938×4525	1615×938×6525
	Mechanical Rotation Diameter(mm)	1735	1735
	Weight (Including Battery) (kg)	550	600
	Maximum Load (kg)	300	300
	Load of Tote (kg)	50	50
	Fitting Tote Size(mm)	600×400×(300-200)	600×400×(300-200)
	Height of Picking(mm)	400-4000	400-6000
Performance Specification	Maximum Movement Speed(m/s)	1.5	1.5
	Stopping Accuracy (mm)/(")	±10/±1	±10/±1
	Fork Lifting Speed(m/s)	0.5	0.5
	Lifting Stop Accuracy(mm)	±2	±2
Charging & Battery Performance	Battery Type	Lithium Iron Phosphate	Lithium Iron Phosphate
	Voltage (V)	220	220
	Battery Capacity (AH)	48	48
	Full Charge Time (H)	≤2	≤2
	Endurance (H)	≥8	≥8
Environment Requires	Environment Temperature	-20℃-45℃	-20℃-45℃
	Roadway Width (mm)	1080	1080
	Ground Flatness (mm/2.25m2)	±4	±4
Safety Feature	Obstacle Detection	✓	✓
	Anti-Collision	✓	✓
	Sound and Light Alarm	✓	✓
	Emergency Stop Button	✓	✓
	Zone of Slow Down	✓	✓
	Zone of Obstacle Avoidance	✓	✓
Signal Transmission	Communication Methods	Wi-Fi 5GHz 802.11n	Wi-Fi 5GHz 802.11n
	Navigation Methods	Inertial + QR Code navigation	Inertial + QR Code navigation
	Drive Mode	"Double-Wheel Differential	"Double-Wheel Differential
		Bidirectional Travel"	Bidirectional Travel"





Automatic Storage Robot (ASR)

T-Series for tote solution

Designed with rotatable clamping forks, lifting devices and multiple material box buffer devices, which can achieve bidirectional operation in narrow aisles and free height lifting.

Moreover, ASR can collect multiple target material boxes at one time, making full use of space and improving the overall picking efficiency.

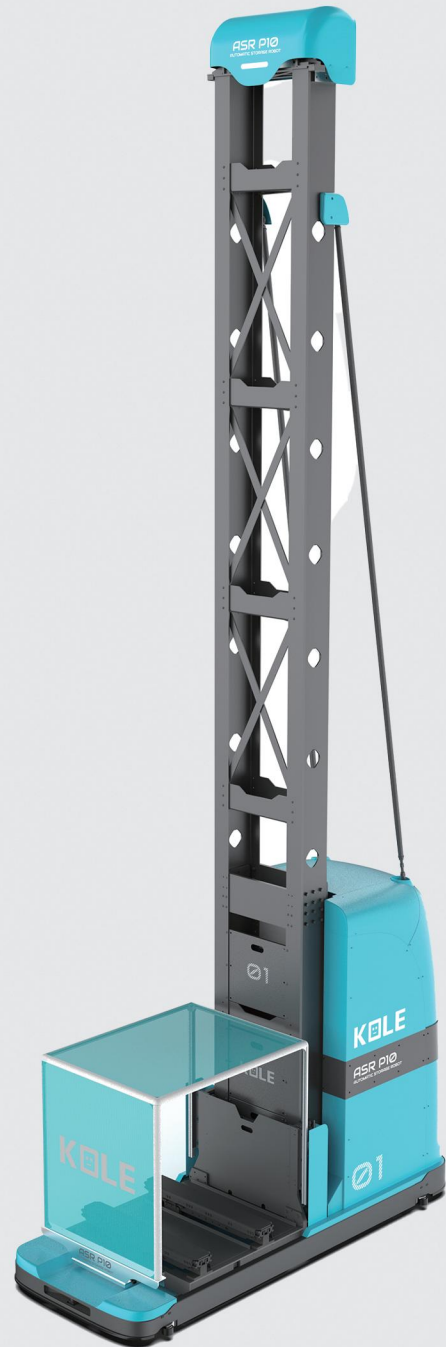


Automatic Storage Robot (ASR)

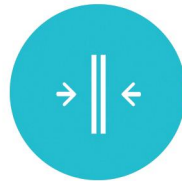
P-Series for pallet solution



KOLE Automatic Storage Robot (ASR-P Series) as a core equipment in modern intelligent logistics, pallet-handling robots significantly enhance warehousing and transportation efficiency through automation, flexibility, and intelligent technologies.



Intelligent



Narrow Aisle

1450mm



Heavy Duty

1500kg



ASR

Pallet Handling robots with narrow aisle & high load in modern intelligent logistics warehouse

Model		P-10 (1000kg Load)	P-15 (1500kg Load)
Basic Specification	Dimensions(L×W×Hmm)	3550×1400×9000	3550×1400×9000
	Weight (Including Battery) (kg)	4200	4300
	Maximum Load (kg)	1000	1500
	Fitting Pallet Size(mm)	(800-1300)×(800-1300)	(800-1300)×(800-1300)
	Height of Picking (mm)	300-7600	300-7600
Performance Specification	Maximum Movement Speed(m/s)	1.5	1.5
	Stopping Accuracy (mm)/(°)	±10/±1	±10/±1
	Fork Lifting Speed(m/s)	0.25	0.25
	Lifting Stop Accuracy(mm)	±2	±2
Charging & Battery Performance	Battery Type	Lithium Iron Phosphate	Lithium Iron Phosphate
	Voltage (V)	380	380
	Battery Capacity (AH)	105	105
	Full Charge Time (H)	≤2	≤2
	Endurance (H)	≥8	≥8
Environment Requires	Environment Temperature	-20°C-45°C	-20°C-45°C
	Roadway Width (mm)	1450	1450
	Ground Flatness (mm/2.25m2)	±4	±4
Safety Feature	Obstacle Detection	✓	✓
	Anti-Collision	✓	✓
	Sound and Light Alarm	✓	✓
	Emergency Stop Button	✓	✓
	Zone of Slow Down	✓	✓
	Zone of Obstacle Avoidance	✓	✓
Signal Transmission	Communication Methods	Wi-Fi 5GHz 802.11n	Wi-Fi 5GHz 802.11n
	Navigation Methods	Inertial + QR Code Navigation	Inertial + QR Code Navigation
	Drive Mode	"Double-Wheel Differential	"Double-Wheel Differential
		Bidirectional Travel"	Bidirectional Travel"





Automatic Storage Robot (ASR)

P-Series for pallet solution

ASR can intelligently walk within the warehouse space and has functions such as autonomous navigation, active obstacle avoidance, and automatic charging.

KOLE Automatic Storage Robot (ASR-P Series) obtains advantage of narrow-aisle (1450mm) and high-load (1500kg), it will be driving an industry-wide paradigm shift from 'person-to-goods' to 'goods-to-person' operations.



Service & Support

We flexibly convert our product features and your needs into a variety of service product offerings, specific service content and delivery standards, ensuring you get the right solutions with minimum downtime, maximum system efficiency and availability.

Our Reactive Services consist of:



24/7
Technical Support



Call Out
Support



Remote Technical
Support



System Maintenance
& Upgrade

Our Reactive Support consist of:



Maintenance



Electric
Inspection



Safety
Inspection



Mechanical
Inspection



System Monitoring



Cyber Security



Training and
Certification

Industry Application



KOLE Robotics is a globally leading intelligent robotics R&D and solution provider, dedicated to the deep integration of core robotics technologies with scenario-based applications. KOLE is committed to driving industrial upgrading and enhancing social efficiency through innovative technologies.

Our solutions serve a wide range of industries, including Manufacturing, Retail, Fashion, Pharmaceuticals, 3PL, E-commerce, New Energy, Food & Beverage, Cold chain, Agriculture, and more.



Manufacturing



3PL



Retail



E-commerce



Fashion



Food & Beverage



Pharmaceuticals



Automobile



Cold chain



New Energy

Technology Innovate Logistics!

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