



Global and China Low-speed Droid Industry Report, 2019-2030

Jan. 2020

STUDY GOAL AND OBJECTIVES

This report provides the industry executives with strategically significant competitor information, analysis, insight and projection on the competitive pattern and key companies in the industry, crucial to the development and implementation of effective business, marketing and R&D programs.

REPORT OBJECTIVES

- ◆ To establish a comprehensive, factual, annually updated and cost-effective information base on market size, competition patterns, market segments, goals and strategies of the leading players in the market, reviews and forecasts.
- ◆ To assist potential market entrants in evaluating prospective acquisition and joint venture candidates.
- ◆ To complement the organizations' internal competitor information gathering efforts with strategic analysis, data interpretation and insight.
- ◆ To suggest for concerned investors in line with the current development of this industry as well as the development tendency.
- ◆ To help company to succeed in a competitive market, and

METHODOLOGY

Both primary and secondary research methodologies were used in preparing this study. Initially, a comprehensive and exhaustive search of the literature on this industry was conducted. These sources included related books and journals, trade literature, marketing literature, other product/promotional literature, annual reports, security analyst reports, and other publications.

Subsequently, telephone interviews or email correspondence was conducted with marketing executives etc. Other sources included related magazines, academics, and consulting companies.

INFORMATION SOURCES

The primary information sources include Company Reports, and National Bureau of Statistics of China etc.

Abstract

Given security, policies and legal risks, the commercialization of the autonomous driving technology will follow the route from low speed to high speed and from close to open. The current autonomous driving technology cannot enable autonomous vehicles to carry passengers, but it allows autonomous vehicles to gradually replace traditional vehicles and attain commercialization firstly in segments such as freight and closed parks where the technical requirements are relatively low. Therefore, the global low-speed droid industry will enter the high-speed development stage in the near future and seize the traditional commercial vehicle market. The global low-speed droid output will be estimated at 2.15 million units in 2025, with a CAGR of 58.7% compared with 2018; it will reach 7.42 million units in 2030, with a CAGR of 45.1% from 2018.

Global Low-speed Droid Output, 2018-2030E



Currently, low-speed droids are mainly used in low-speed transportation in outdoor closed scenarios (such as autonomous cleaning vehicles + outdoor logistics vehicles) and indoor closed scenarios (mainly including catering, hotels, KTV / hospitals). At present, most manufacturers are only in the stage of testing or preliminary commercialization. This industry boasts huge potentials, so all players are trying to seize first-mover advantages in their respective application areas:

Application Scenarios	Mission	Major Representative Companies
KTV	Welcome, intelligent usher, intelligent voice, autonomous obstacle avoidance, drink delivery, elevators and other functions.	Uditech launched its first-generation product "EXCELLANDER" in May 2016
Hospital	Consultation process simulation, patient guidance and triage; accurate and short-distance delivery of medicines to wards.	Noah Hospital Logistics & Distribution Robot is mainly responsible for transporting and distributing samples, intravenous fluids, and materials inside the operating room. It has been applied to Guangzhou Women and Children's Medical Center.
Catering	Usher, order, food delivery, etc.	The food delivery robot launched by Yunji Technology is suitable for restaurants, banquet halls and other scenarios. It features intelligent obstacle avoidance, automatic selection of food delivery routes, autonomous movement, and intelligent voice interaction.
Mobile retail	Mobile vending machines	Neolix "Mobile Convenience Store" began to sell Xiong'an-style cultural and creative souvenirs, snacks and drinks at Xiong'an Citizen Service Center in August 2018
Autonomous cleaning	Scheduled automatic start, autonomous cleaning, detection and bypass of stationary obstacles, avoidance of pedestrians or moving objects, and automatic identification of traffic lights. After the cleaning is finished, the car will dump the garbage to the designated place automatically, and then return to the parking lot.	Idriveplus's representative model "WOXIAOBAI" has been operated in Tsinghua University, Beijing Haidian Park, Beijing Botanical Garden, Beijing Happy Valley, Xiong'an New Area (Hebei)
Outdoor logistics	Autonomous logistics & distribution in communities or parks to realize the automation of the last mile and improve the overall benefits of the entire logistics chain.	JD autonomous logistics & distribution vehicles, Idriveplus "WOBIDA (Ω)", Starship distribution vehicles, Nuro distribution vehicles, etc.

Global and China Low-Speed Droid Industry Report, 2019-2030 by ResearchInChina mainly highlights the followings:

- ◆ Overview of low-speed autonomous driving industry (including definition, classification, application scenarios, implementation, etc.);
- ◆ Global and Chinese low-speed droid market size (including market size, market segments);
- ◆ Main low-speed droid technologies and trends (including mainstream configuration, important parts, and main technology trends, etc.);
- ◆ Brief introduction, product overview, development paths, applicable cases and latest development of 19 domestic and foreign low-speed droid companies such as Nuro, Einride, Starship, Auto X, Udelv, Idriveplus, UISEE, Forwardx Robotics, SUNING, JD X Business Division, etc.

1. Low-speed Droid Industry

- 1.1 Definition of Low-speed Autonomous Vehicles
- 1.2 Classification and Three Major Difficulties of Low-speed Autonomous Vehicles
- 1.3 Paths for Implementation of Autonomous Driving
- 1.4 Definition and Classification of Droid
- 1.5 Main Application Scenarios of Droid

2. Low-speed Droid Market Size

- 2.1 Global Droid Market Size and Forecast
- 2.2 Global Droid Market Segments
- 2.3 Chinese Droid Market Size and Forecast
- 2.4 Chinese Low-speed Droid Market Segments

3. Main Low-speed Droid Technologies and Trends

- 3.1 Mainstream Configuration of Droid
- 3.2 Important Droid Parts
- 3.3 Environmental Perception Technology
- 3.4 Positioning Technology
- 3.5 Decision and Planning
- 3.6 Control and Execution Technology
- 3.7 Main Technology Trends

4. Global Droid Enterprises

- 4.1 Nuro.ai

4.1.1 Profile

4.1.2 Development Course

4.1.3 Delivery Services by Autonomous Vehicles

4.2 Einride

4.2.1 Profile

4.2.2 Autonomous Driving Configuration of T-pod

4.2.3 Basic Performance Indicators of T-log

4.2.4 Commercialization

4.3 Starship

4.3.1 Profile

4.3.2 Development Course and Parcel Delivery Services

4.3.3 Food Delivery Services

4.4 Auto X

4.4.1 Profile

4.4.2 Main Products

4.4.3 Droids

4.4.4 Strategic Cooperation with ZTO Express

4.5 Udelv

4.5.1 Profile

4.5.2 Customizable Autonomous Vehicles

4.5.3 Main technology

4.5.4 Cooperation with Baidu and Walmart

5. Chinese Droid Enterprises

- 5.1 Idriveplus

- 5.1.1 Profile
- 5.1.2 Development Course
- 5.1.3 Low-speed Autonomous Driving Solutions
- 5.1.4 WOBIDA (Ω)
- 5.1.5 Challenges to Autonomous Delivery & Logistics Vehicles in Development Parks
- 5.1.6 Application Cases and Promotion Plans
- 5.1.7 Establishment of Autonomous Driving Industry 5G Ecosystem with CM Intelligent Mobility

- 5.2 UISEE
- 5.2.1 Profile
- 5.2.2 Products and Technologies
- 5.2.3 Autonomous Luggage Logistics Vehicles

- 5.3 Forwardx Robotics
- 5.3.1 Profile
- 5.3.2 Development Course
- 5.3.3 Main Products
- 5.3.4 Layout of Autonomous Vehicles with People + Cargo

- 5.4 Neolix
- 5.4.1 Profile
- 5.4.2 Mini Logistics Vehicles
- 5.4.3 Production and Promotion of Autonomous Logistics Vehicles

- 5.5 SUNING
- 5.5.1 Profile
- 5.5.2 Main Products
- 5.5.3 Normal Operation of Autonomous Vehicles in Nanjing
- 5.5.4 Joining Apollo Alliance
- 5.5.5 "5G Wolong" Road Test

- 5.6 Meituan
- 5.6.1 Profile
- 5.6.2 Business Development Course and Planning
- 5.6.3 Joining BDD
- 5.6.4 Release of Autonomous Delivery Open Platform
- 5.6.5 Autonomous Delivery Vehicles Have Passed Relevant Tests

- 5.7 JD X Business Division
- 5.7.1 JD Terminal Delivery Robots
- 5.7.2 Development Course of Autonomous Vehicles
- 5.7.3 Autonomous Vehicle Layout
- 5.7.4 JD Autonomous Vehicles Settled in Changsha
- 5.7.5 JD Launched the World's First Robot Intelligent Distribution Station
- 5.7.6 JD Helped Rokuten Complete Japan's First Commercial Autonomous Distribution Trial

5.8 Cainiao

5.8.1 Profile

5.8.2 Product Line

5.8.3 Main Functions

5.8.4 Latest Progress

5.9 Navibook

5.9.1 Profile

5.9.2 Strategic Planning

5.10 Aisimba

5.10.1 Profile

5.10.2 Main Products and Technologies

5.10.3 Autonomous Logistics & Distribution Vehicles

5.11 DeepBlue Technology

5.11.1 Autonomous Driving Roadmap

5.11.2 Main Products

5.11.3 Smart Manufacturing Open Platform and Smart Manufacturing Plant Started

5.12 i-Tage Technology

5.12.1 Profile

5.12.2 Development Course

5.12.3 Application Scenarios of i-Tage Autonomous Robots

5.12.4 Application of Mining Vehicles

5.13.5 Application Cases of Autonomous Mining Trucks

5.13 Central Cloud Intelligent Vehicle

5.13.1 Profile

5.13.2 Main Products

5.14 ZhenRobotics

5.14.1 Profile

5.14.2 Development Course

5.14.3 core team

5.14.4 R & D and Production Layout

5.14.5 Core Technologies and Main Products

5.14.6 Product Technology Roadmap and Development Plans

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