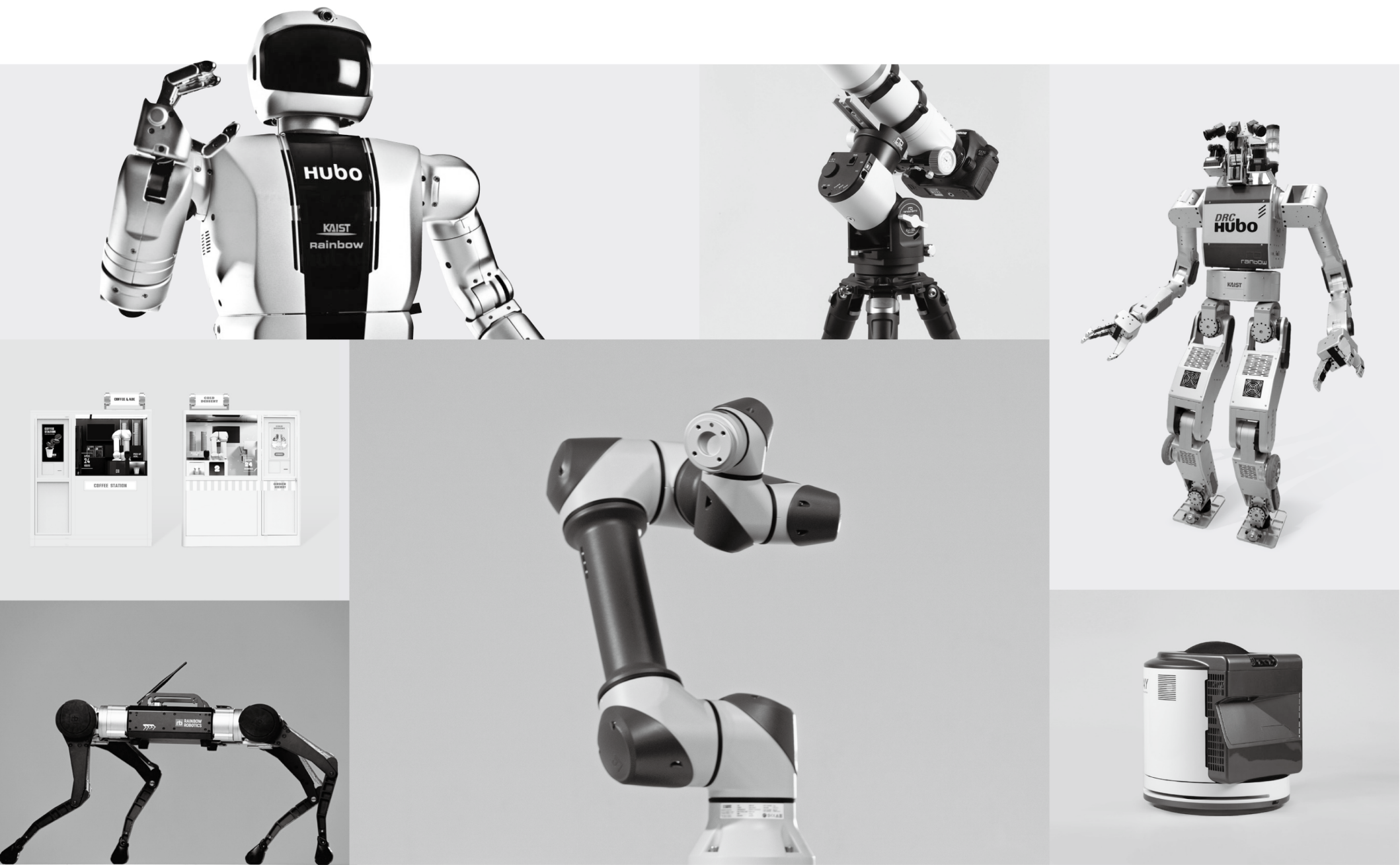


WE  
TOUCH  
THE  
CORE

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## Chapter

### Introduction of Rainbow Robotics

- 01. Company Introduction
- 02. History
- 03. Certification
- 04. Patents & Awards

# Company Introduction

Rainbow Robotics is a robot platform company founded by Professor Oh Jun-Ho of HUBO Lab - KAIST Humanoid Robot Research Center with the researchers. From the world's best disaster relief robots to self-developed cooperative robots, Rainbow Robotics strives to commercialize robots by securing its unique technology and providing excellent robots at reasonable prices through constant R&D.

## 'We touch the core'

Rainbow Robotics strives relentlessly to become a leader in the robot industry through preeminent technologies.

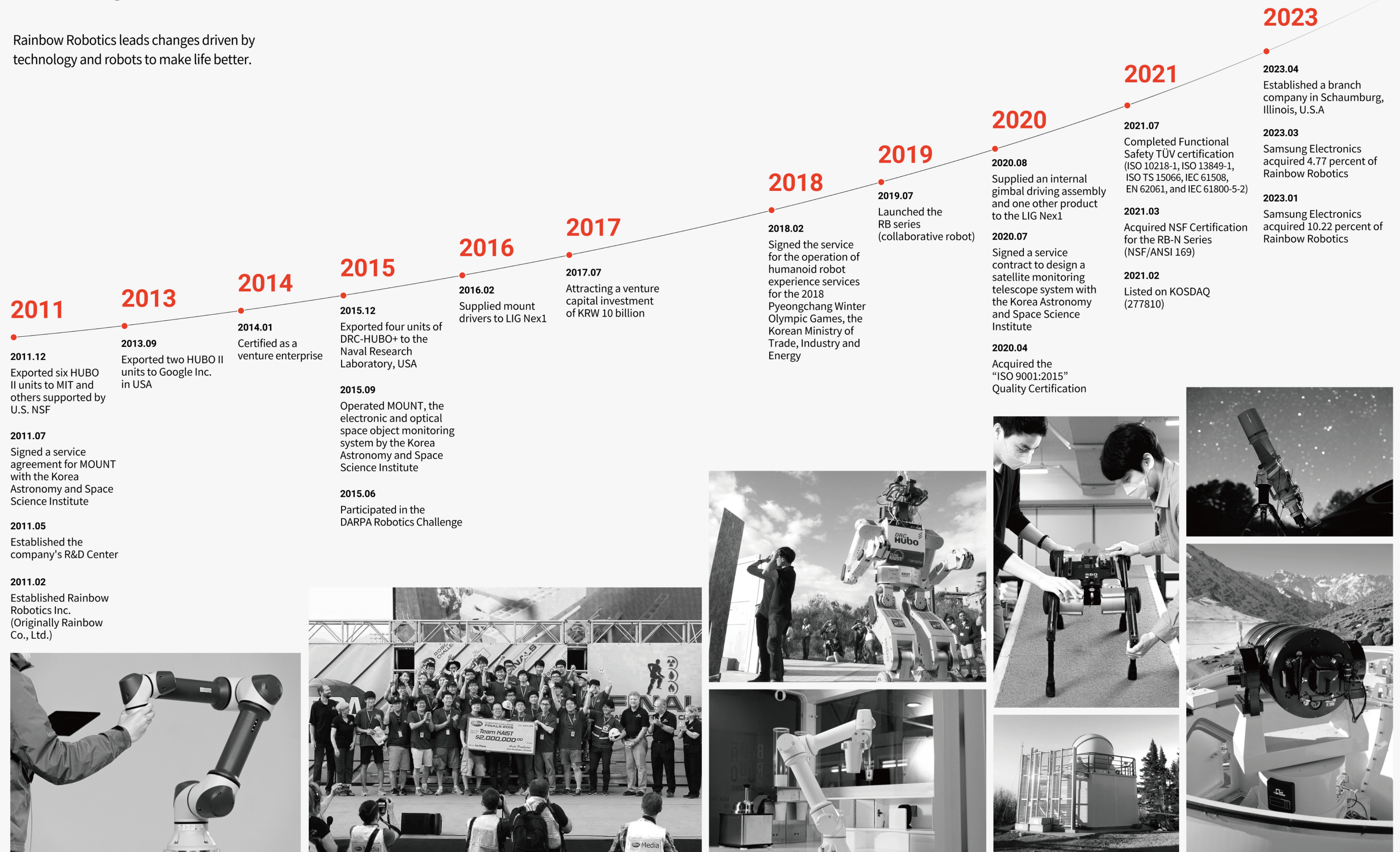
CEO	Lee Jungho
Established date	02.10.2011
Publicly listed date	02.03.2021
Employees	73 people (as of December 31, 2023)
Address	10-19, Expo-ro 339beon-gil, Yuseong-gu, Daejeon, Republic of Korea
Website	<a href="http://www.rainbow-robotics.com">www.rainbow-robotics.com</a>





# History

Rainbow Robotics leads changes driven by technology and robots to make life better.





# Certification

## 1. RB Series

- Ensured robot stability by obtaining CE, NRTL, and KCs Safety Certifications through TÜV SÜD, a well-known overseas certification body (ISO 13849-1, PL d, Cat.3, & ISO 10218-1, ISO/ TS 15066)
- Systematization and procedure for quality assurance of corporate operations through Quality Management System Certification (ISO 9001)



Types of certifications	Subject	Application standard-certifying body	Proof of conformity
NRTL/CSA	Motor, drive-	UL 61800-5-1:2012/R:2021-02 CSA C22.2 No. 274:2017	TÜV SÜD
	Industrial Robot	CSA Z434:2014 UL 1740:2018/R:2020-11 NFPA 79:2021	
CE AOC (Autonomy Safety)	Motor, drive-	EN 61800-5-1:2007/A1:2017	
	Industrial Robot EMCD	EN 61000-3-2:2014 EN 61000-3-3:2013 EN 61000-3-3:2013/A1:2019 EN 61000-6-2:2005 EN 61000-6-4:2007/A1:2011 EN IEC 61000-3-2:2019	
		EN 61000-3-2:2014 EN 61000-3-3:2013 EN 61000-3-3:2013/A2:2021 EN 61000-6-2:2005 EN 61000-6-4:2007/A1:2011 EN IEC 61000-3-2:2019/A1:2021	
	Industrial Robot MD	EN 60204-1:2018 EN ISO 10218-1:2011 EN ISO 12100:2010 Machinery Directive 2006/42/EC	
Functional Safety	Robot Safety Unit	IEC 61508-1:2010 (SIL 2) IEC 61508-2:2010 (SIL 2) IEC 61508-3:2010 (SIL 2) EN 62061:2005/A2:2015 (SILCL 2) EN ISO 13849-1:2015 (Cat. 3, PL d) EN ISO 10218-1:2011 ISO TS 15066:2016 IEC 61800-5-2:2016	
CE AOC (Autonomy Safety)	Motor, drive- Low voltage	EN 61800-5-1:2007/A1:2017	
NRTL	Motor, drive-	UL 61800-5-1:2021	
CE AOC (Autonomy Safety)	Industrial Robot EMCD	EN 61000-3-2:2014 EN 61000-3-3:2013 EN 61000-6-2:2005 EN 61000-6-4:2007/A1:2011	
	Industrial Robot MD	EN 60204-1:2018 EN ISO 10218-1:2011 EN ISO 12100:2010 Machinery Directive 2006/42/EC	
	Motor, drive- Low voltage	EN 60034-1:2010 EN 61800-5-1:2007	

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CE AOC Autonomy Safety)	Industrial Robot EMCD	EN 61000-3-2:2014 EN 61000-3-3:2013 EN 61000-6-2:2005 EN 61000-6-4:2007/A1:2011	TÜV SÜD
	Industrial Robot MD	EN 60204-1:2006/A1:2009 EN ISO 10218-1:2011 EN ISO 12100:2010 Machinery Directive 2006/42/EC	
KCs (Confirmation Report)	Industrial robots	-	KOSHA

## 2. RB-N Series

- The RB-N Series robot is certified by the National Sanitation Foundation (NSF) for safe and hygienic use in the F&B market, and is designed for use as a single product without installing a jacket or supplementary devices on it.



Types of certifications	Subject	Application standard-certifying body	Proof of conformity
NSF	Collaborative Robot Arm	NSF/ANSI 169: Special purpose food equipment and devices	NSF International



RB Series



RB-N Series



# Patents

- An intellectual property management company that differentiates itself in performing intellectual property management activities
- 17 domestic patents and 12 pending patents, 36 foreign patents, 12 pending trademarks, 11 domestic trademark registrations, and 7 foreign trademark registrations

## Major patents in S. Korea and other countries

Name	Registration no.
REAL-TIME CONTROL SYSTEM, REAL-TIME CONTROL DEVICE AND SYSTEM CONTROL METHOD	US 11,135,719 B2
REAL-TIME DEVICE CONTROL SYSTEM HAVING HIERARCHICAL ARCHITECTURE AND REALTIME ROBOT CONTROL SYSTEM USING SAME	US 10,857,672 B2
GPOS-CONNECTED REAL-TIME ROBOT CONTROL SYSTEM AND REAL-TIME DEVICE CONTROL SYSTEM USING SAME	US 10,864,635 B2
STATOR COIL WINDING MACHINE	US 11,368,075 B2
SERIES ELASTIC ACTUATOR, METHOD FOR CONTROLLING SERIES ELASTIC ACTUATOR AND SYSTEM THEREOF	US 11,431,222 B2
DEVICE FOR BRAKING DRIVE SHAFT	EP 3756837 B1
リアルタイム制御 システム、リアルタイム制御装置及びシステムの制御方法	JP 6836585
GPOS連動型リアルタイムロボット制御システム及びこれを用いたリアルタイムデバイス制御システム	JP 6771027
階層的なアーキテクチャを有するリアルタイムデバイス制御システム及びこれを用いたリアルタイムロボット制御システム	JP 6938473
实时控制系统、实时控制装置及统控制方法	CN 108025436 B
具有分层架构的实时设备控制系统及利用其的实时机器人控制系统	CN 108136578 B
스테이터 코일 권선 장치	KR 10-2235169, 10-2256187, 10-2280446, 10-2280447, 10-2280448
구동축 브레이킹 장치	KR 10-2235169
계층적 아키텍처를 갖는 실시간 디바이스 제어 시스템 및 이를 이용한 실시간 로봇 제어 시스템	KR 10-2235168
스텝 기반 실시간 디바이스 시스템 제어 방법, 디바이스 시스템 제어 장치 및 스텝 기반 디바이스 제어 시스템	KR 10-2235167
실시간 로봇 시스템, 로봇 시스템 제어 장치 및 로봇 시스템 제어방법	KR 10-2235166

# Awards

- The following cases represent public recognition of Rainbow Robotics’ R&D outcomes.

Year	Awards	Awarding Organizations
2023	USD-Two Million Export Tower	Ministry of Industry, Trade and Energy
2022	USD-One Million Export Tower 2022 Korea Engineering Prize (Director Oh Jun-ho) 17th Korea Robot Award (CEO Lee Jeong-ho) 29th Korea Impact Award (World’s first NSF-certified collaborative robots, RB-N Series)	Ministry of Industry, Trade and Energy Korean Academy of Science and Technology Ministry of Industry, Trade and Energy Ministry of Science and ICT
2018	Selected as Top 100 Future Technology Stars to lead S. Korea (CEO Lee Jeong-ho)	Korean Academy of Science and Technology
2016	Ho-Am Prize (Director Oh Jun-ho) Changjo Medal of Order of Science and Technology Merit (Director Oh Jun-ho)	The Ho-Am Foundation Ministry of Science, ICT and Future Planning
2015	DARPA Robotics Challenge Finals 1st	DARPA









## Chapter

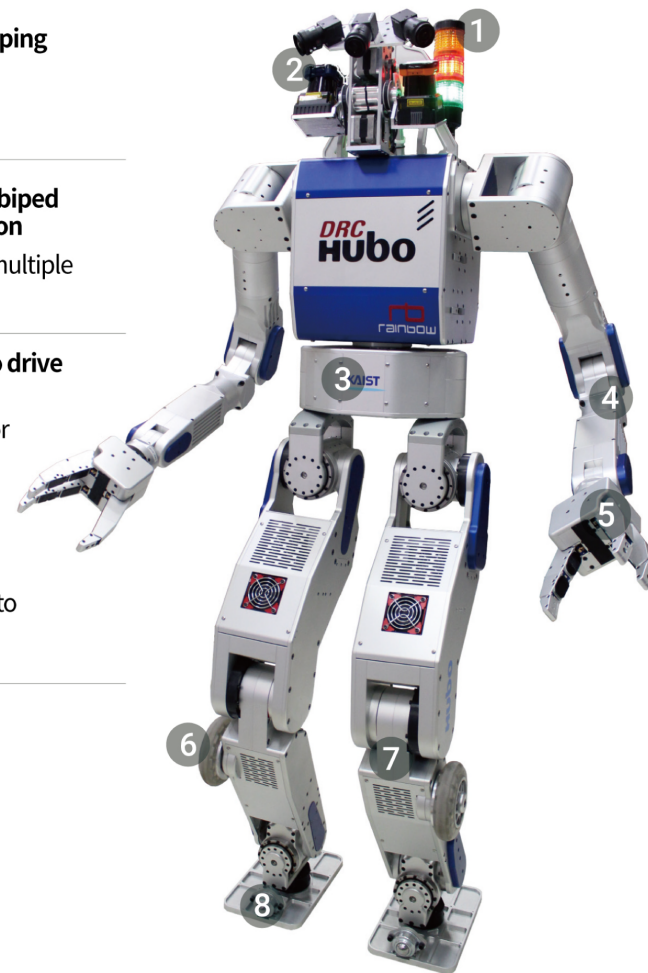


## Business Domain and Main Products

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- AMR	20

# Core Technology

- 1  **Real-time operating system**  
Controlling all of the robot's movements to achieve the objective
- 2  **Imaging sensors to detect the external environment visually**  
Sensors in autonomous vehicles
- 3  **Inertial sensors to measure the inclination of the ground and robot**  
Measuring and detecting motion
- 4  **Redundant robot arms to perform various tasks**  
Able to be operated even in an undefined environment with more than 6 degrees of freedom
- 5  **Adaptive robot hands capable of gripping various objects**  
Gripping any object shape
- 6  **Transformable robot legs capable of biped walking / wheel driving transformation**  
A ground vehicle capable of achieving multiple purposes
- 7  **Drive controller and speed reducer to drive each joint**  
Internalization of motor and decelerator technology, which are the main driving components
- 8  **Real-time operating system**  
Controlling all of the robot's movements to achieve the goal



# Business Domain

As a company specializing in robot platforms with preeminent technology, Rainbow Robotics devotes steadfast efforts to commercialize robots by securing innovative technology with continuous R&D and selling cost-effective excellent robots.



Collaborative robots



Precision pointing mount



Legged robots



Mobile robots



# Collaborative Robots Working with Humans

## RB Series

Rainbow Robotics' RB series cobots feature 6-axis robotic arms, developed using our exclusive technology. With multiple options available (RB3-730, RB3-1200, RB5-850, RB6-920, RB10-1300, RB16-900 and RB20-1750), these cobots cater to diverse needs in various work environments. Our RB cobots undergo thorough testing and inspection by TÜV SÜD, a globally renowned certification body. They are certified with NRTL, CSA, CE and KCs, meeting the following standards.

- ISO 13849-1, Cat.3, PL d
- ISO 10218-1
- ISO/TS 15066



### RB Series lineup

- RB3-730
- RB5-850
- RB6-920
- RB16-900
- RB3-1200
- RB10-1300
- RB20-1750

### Range of Applications

- Packaging
- Welding
- Assembly
- Quality inspection
- Adhesion spreading
- Picking and placing
- Laser marking
- UT welding
- Injection molding
- Photography and video shooting
- CNC machine tending
- 3D scanning

### Main features

- Securing a high performance and price competitiveness by internalization of core components
- Collaborative robots with built-in humanoid robot technology
- User-friendly software

### Options with built-in pneumatics (A1, A2, A3)

Model Name	Pneumatics lines	Signal lines
RB5-850A1	4EA(4Ø tube)	N
RB5-850A2	5EA(4Ø tube)	12Pin(AWG28)
RB3-1200A1	4EA(4Ø tube)	N
RB3-1200A2	5EA(4Ø tube)	12Pin(AWG28)
RB10-1300A1	1EA(8Ø tube)	N
RB10-1300A2	1EA(8Ø tube)	12Pin(AWG28)
RB10-1300A3	4EA(4Ø tube)	N

※ Some specifications may be changed to improve performance.  
※ When applying the option, it is necessary to check the operating scope and environment.

# The world's first NSF-certified collaborative robots,

## RB-N Series

The RB-N Series robot is certified by the National Sanitation Foundation (NSF) for safe and hygienic use in the F&B market and is designed for use as a single product without installing a jacket or supplemental devices on it. The RB-N Series consist of 3 types: RB5-850N, RB3-1200N, and RB10-1300N Series and can be applied in various food and beverage industries, such as deep fryers using high-temperature oil and espresso machines that extract high-pressure steam.



### RB-N Series lineup

- RB5-850N
- RB3-1200N
- RB10-1300N

### Range of Applications

- Unmanned cafe platform (Coffee, aid, milk tea and cocktails)
- Soft cone ice cream robot
- Waffle-making robot
- Chicken cooking robot
- Kitchen utensil washing robots, etc.

### Key Features

- NSF Food Sanitation Safety Certification
  - Safety certification for food processing equipment and related parts for particular purposes (NSF/ANSI169)
  - Qualification by NSF for production facilities
- Cooking robots that are harmless to the human body
  - Using special paint that does not emit harmful substances
  - Ensuring a safety level to cook the food twice, even if it comes into contact with the robot
  - Passed a crash test (proof that foreign matter such as paint materials occurring in the event of a collision is non-hazardous to human health)
- Use of durable fasteners
  - Using special SUS fasteners that do not cause rust
  - Using coupling rings with proven high temperature, high strength, high rigidity, low moisture absorption rate, fatigue resistance, creep resistance, and hygiene
- Increased user convenience
  - 6-axis robot arms with IP66 waterproof and dustproof rating
  - A single robot product that can reduce the hassle of switching jackets and be cost-effective



A robot cafe platform created by a collaborative robot manufacturer,

# Rainbow Robot Cafe

The Rainbow Robot Cafe, developed in-house by the collaborative robot manufacturer Rainbow Robotics, provides an optimized operating system featuring a compact platform. It is equipped with a collaborative robot certified by the U.S. NSF to be operated more safely and conveniently. Experience an unmanned robot cafe platform where you can enjoy various drinks anytime, anywhere.



**Robot cafe product lineup**

- Coffee & ade refreshment
- Ice cream & slushies

**Range of Application Sites**

- Rest areas
- Cafes
- Enterprises
- Government offices
- Hospitals
- Hotels
- Building lobbies
- Libraries
- Large exhibition halls
- Commercial facilities such as department stores & shopping malls
- Cable cars, observatories, observatories, aquariums, etc.

**Main Features**

24-hour unmanned operation	Collaborative robots enabling unrestricted operation round-the-clock-, 7 days a week
Cost-effective price	Collaborative robot manufacturer Rainbow Robotics directly develops and provides all solutions cost effectively.
Compact size	The compact size allows for operation in minimal space occupied. (1500 x 1700 x 1950 mm)
The average drink-making time of 50 seconds	Many beverages can be manufactured in a short time.
Non-face-to-face ordering and payment	The automated manufacturing and order / payment system enables providing non-face-to-face services.
Maximizing income generation	Income generation is maximized through minimized labor costs with a complete unmanned system.
The world's first NSF-certified robot	The only robot in S. Korea that has received international sanitary safety and quality certification can manufacture beverages hygienically.
Built-in kiosk	The built-in kiosk only requires installing one platform without taking up extra space.
Easy management system even for laymen / novices	Remote management solutions can check and manage remaining beverage levels, payment errors, etc.

Astronomical observation equipment with precision robot control technology

# Astronomical observation mount

An astronomical observation mount is an ultra-precision pointing device for observing outer space objects, i.e. planets, stars, and satellites, from the ground. Rainbow Robotics has developed an astronomical mount based on humanoid robot technology, and unlike conventional mounts, it does not use weights, offering excellent portability.



**A lineup of mounts for astronomical observation**

- RST-135
- RST-135E
- RST-300

**Range of Applications**

- Mobile observation
- Remote observatory
- Educational observatory
- For defense industry
- satellite tracking, etc.

**Main Features**

- No need to add weights
- Ultra-light and compact
- Wave gear reducer (harmonic drive)
- CNC machining
- Wi-Fi
- GPS receiver
- Built-in home sensor

	RST-135	RST-135E	RST-300
Body weight	3.3 kg (7.3 lb)	3.4 kg (7.5 lb)	8.5 kg (18.7 lb)
Size	14.4x13.1x19.5 cm	14.4x13.1x20.5 cm	18.3x17.5x27.9 cm
Mount weight (with no weight)	13.5 kg (30 lb)		30 kg (66 lb)
Mount weight (with weight)	18 kg (40 lb)		50 kg (110 lb)
Maximum speed	1,800x (7.5 deg/sec)		1,200x (5deg/sec)
Output stage encoder	X	Built into the rightscension axis Product by UK-based Renishaw	X
Cycle error	-	±2.5 arcsec	-
Input power	DC 12V ~ 16V		
Recommended telescope	Up to 8-inch or 5-inch reflector		Up to 14-inch or 7-inch refractor

## Quadruped robot RBQ Series

The RBQ series is a quadruped robot that can perform various tasks in an atypical complex environment. It is a platform that can walk rough and field areas and which can be equipped with various sensors such as lidar and cameras. It can also be used for crime prevention patrols, detection of dangerous objects, transport of goods, safety inspection, etc



### Product specifications

#### RBQ-3

- Size : 550 x 350 x 400 mm
- Weight : 25 kg
- Payload : 3 kg
- Operating hours : Up to 3 hours when fully charged (2 hours of continuous walking)
- Maximum speed : 7.2 km/h
- Maximum climbing ability : 40 %
- Step walking ability : 8 cm
- Communication method : WiFi
- Rated voltage : 52.8 V

#### RBQ-10

- Size : 945 x 440 x 565 mm
- Weight : 39 kg
- Payload : 12 kg
- Operating hours : Up to 3 hours when fully charged (1 hour and 30 minutes of continuous walking)
- Maximum speed : 4 km/h (walking), 8 km/h (driving)
- Maximum climbing ability : 45 %
- Step walking ability : 12 cm (general walking), 20 cm (step)
- Communication method : WiFi, LTE
- Rated voltage : 52.8 V

### Features

- Walking control algorithm that's resistant to external shock
- Easy operation using remote control
- Various sensors such as lidar and camera can be mounted
- Able to climb stairs up to 20 cm (based on RBQ-10)
- Detachable battery (based on RBQ-10)
- Waterproof IP65 (based on RBQ-10)

### Scope of Applications

- **Military sector**
  - Surveillance, reconnaissance, dangerous object detection, etc.
- **Fire-fighting safety**
  - Detecting survivors and dangerous goods, transporting goods through narrow passages, etc.
- **Safety inspections**
  - Safety inspection of piping, narrow passages, etc.
- **Security patrols**
  - Constant patrol, risk detection, and alarms
- **Convenience functions**
  - Convenience functions such as serving and guidance
- **Logistics functions**
  - In-plant parts transfer, last-mile logistics within an apartment complex, etc.

## AI Autonomous-Driving Serving Robot RBM-SRV

Rainbow Robotics' Serving Robotics boasts of high location accuracy and stable driving performance compared to other companies with domestic production of core parts and self-developed software. In addition, the interactive UI makes it easy for beginners to set up and operate.



### Product Specifications

- Size : 510 x 510 x 1250 mm
- Loading capacity : Up to 30 kg (about 10 kg per shelf)
- Shelf Size : 510 x 380 mm
- Display : 10.1 Inches
- Weight : Approximately 50 kg
- Number of shelves : 2 + 1 (expandable)
- Sensor : 1 unit of 2D Lidar, 2 units of 3D cameras
- Network : Wi-Fi

### Battery

- Battery Capacity : 15,000 mAh (48V)
- Continuous driving time : 12 hours
- Battery charging time : 3 hours and 30 minutes
- Charge type : Wired AC adaptor included

### Driving

- Driving mode : Serving mode/Clearing table mode
- Width for driving : Minimum of 700 mm
- Driving speed : Maximum of 1.0 m/s (adjustable)
- Emergency stop : EMO switch

### Features

- **High positioning accuracy**
  - Higher positioning accuracy compared to other companies using Grid-Free SLAM
- **Tray opening structure on three sides**
  - Horizontal arrangement with three sides open makes it easy to attach and detach the tray, increasing work speed
- **AI Autonomous Driving**
  - Accurate determination of location without attaching a marker
- **Customizable**
  - Tray position can be adjusted to suit workability, up to 5 layers can be added
- **Serving point management**
  - Intuitive and easy serving management by designating serving locations and groups, such as main halls, group seats, nicknames, etc.
- **Easy linkage with call bells**
  - Easy to clear tables by linking call bell

### Fields of application

- Food and beverage stores (cafes, restaurants, etc.)
- Cultural facilities (art museums, museums, etc.)
- Medical facilities (hospitals, nursing homes, etc.)
- Accommodation facilities (hotels, resorts, etc.)
- Transportation facilities (airport, terminal, etc.)



Autonomous mobile robots specializing in the logistics automation industry

# RBM Series

The Autonomous Mobile Robot (AMR) developed by Rainbow Robotics consists of a lineup of RBM-D200, RBM-D800, and RBM-LD300. The product can be used in various fields including manufacturing automation, cleaning and disinfection, autonomous security, and customer service as well as logistics automation such as fulfillment and last-mile delivery.



RBM Series lineup

- RBM-D200
- RBM-D800
- RBM-LD300

Fields of application

- Fulfillment
- Last-Mile Delivery
- Manufacturing automation
- Cleaning and disinfection
- Autonomous security
- Customer service

	RBM-D200	RBM-D800	RBM-LD300
Size	570 x 820 x 220 mm	770 x 1080 x 300 mm	780 x 1000 x 175 mm
Self-weight	90 kg	200 kg	110 kg
Payload	200 kg	800 kg	300 kg
Maximum speed	1.3 m/s	1.1 m/s	1.3 m/s
Drive	Differential drive (Active Wheel x 2, Caster (double wheel) x 4)		
Wheel size	Drive (150 mm), Caster (75 mm)	Drive (200 mm), Caster (125 mm)	Drive (150 mm), Caster (75 mm)
Sensors	2D Lidar (Non-Safety) x 2, 3D Depth Camera x 1		2D Lidar (Safety) x 2
Battery	13S8P – 48V 40Ah		13S7P – 48V 35Ah
Charge	Separate adaptor jack		
Separate functions	-	-	Built-in lift (40 mm), built-in turntable

※ Some specifications may be changed to improve performance.

# 3












Chapter

Fields of application



# Fields of application

## Collaborative Robots

 <b>CNC machine tending</b> <ul style="list-style-type: none"> <li>- CNC operation</li> <li>- Input and discharge of processed products, etc.</li> </ul>	 <b>Welding</b> <ul style="list-style-type: none"> <li>- Arc welding</li> <li>- Pulse welding</li> <li>- Weaving welding</li> <li>- Specimen welding, etc.</li> </ul>	 <b>Packaging</b> <ul style="list-style-type: none"> <li>- Automated packaging process</li> <li>- Product / box packaging, etc.</li> </ul>
 <b>Injection molding</b> <ul style="list-style-type: none"> <li>- Automated injection process</li> <li>- Collection of injection products, etc.</li> </ul>	 <b>Assembly</b> <ul style="list-style-type: none"> <li>- Plastic, wood, metal, furniture assembly, etc.</li> </ul>	 <b>Picking and placing</b> <ul style="list-style-type: none"> <li>- Manufacturing automation process</li> <li>- Loading / unloading, etc.</li> </ul>
 <b>Quality inspection</b> <ul style="list-style-type: none"> <li>- 3D scanning</li> <li>- Machine vision inspection</li> <li>- Defect inspection, etc.</li> </ul>	 <b>Logistics</b> <ul style="list-style-type: none"> <li>- Logistics automation</li> <li>- Transport and loading</li> <li>- Palletizing</li> </ul>	 <b>Adhesive / application</b> <ul style="list-style-type: none"> <li>- Application of adhesives, finishes, adhesives, chemicals, etc.</li> <li>- Quarantine system</li> </ul>
 <b>F&amp;B</b> <ul style="list-style-type: none"> <li>- Unmanned cafe platform</li> <li>- Soft ice cream</li> <li>- Kitchen cooking</li> <li>- Waffle making</li> <li>- Cleaning kitchen utensils</li> </ul>	 <b>For research / Education</b> <ul style="list-style-type: none"> <li>- R&amp;D</li> <li>- Training at educational institutions, etc.</li> </ul>	 <b>Photographing</b> <ul style="list-style-type: none"> <li>- 3D facial scanning</li> <li>- Video and photo shooting</li> </ul>

## Precision Pointing Mount

 <b>For military purposes</b> <ul style="list-style-type: none"> <li>- Satellite observation and tracking</li> <li>- Close-range defense system</li> <li>- High-resolution image acquisition</li> <li>- Radar for collecting information</li> </ul>	 <b>For astronomical observation</b> <ul style="list-style-type: none"> <li>- Unmanned stargazing</li> <li>- Astronomical photography</li> </ul>
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## Biped walking robot

 <b>For research and education</b> <ul style="list-style-type: none"> <li>- R&amp;D, educational institutions, etc.</li> </ul>	 <b>For exhibitions and entertainment</b> <ul style="list-style-type: none"> <li>- Science museum exhibition / demonstration, etc.</li> </ul>	 <b>For disaster rescue</b> <ul style="list-style-type: none"> <li>- Surveillance, reconnaissance, dangerous object detection, etc.</li> </ul>
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## Quadruped walking robot

 <b>Military sector</b> <ul style="list-style-type: none"> <li>- Surveillance, reconnaissance, dangerous object detection, etc.</li> </ul>	 <b>Fire-fighting safety</b> <ul style="list-style-type: none"> <li>- Detecting survivors and dangerous goods, transporting goods through narrow passages, etc.</li> </ul>	 <b>Safety inspections</b> <ul style="list-style-type: none"> <li>- Safety inspection of piping, narrow passages, etc.</li> </ul>
 <b>Security patrols</b> <ul style="list-style-type: none"> <li>- Constant patrol, risk detection, and alarms</li> </ul>	 <b>Convenience functions</b> <ul style="list-style-type: none"> <li>- Convenience functions such as serving and guidance</li> </ul>	 <b>Logistics functions</b> <ul style="list-style-type: none"> <li>- In-plant parts transfer, last-mile logistics within an apartment complex, etc.</li> </ul>

## Serving robot

 <b>Café</b> <ul style="list-style-type: none"> <li>- Serving coffee and beverages</li> <li>- Guidance to a table, etc.</li> </ul>	 <b>Restaurant</b> <ul style="list-style-type: none"> <li>- Guidance to a table, etc.</li> <li>- Food Serving</li> <li>- Clearing table function</li> </ul>	 <b>Internet cafe</b> <ul style="list-style-type: none"> <li>- Guidance to a desk</li> <li>- Food serving and clearing table functions</li> </ul>
 <b>Mart</b> <ul style="list-style-type: none"> <li>- Promotional function</li> <li>- Transport of goods</li> </ul>	 <b>Hospital</b> <ul style="list-style-type: none"> <li>- Guidance to a patient room</li> <li>- Convenience functions such as various kinds of guidance</li> </ul>	 <b>Hotel</b> <ul style="list-style-type: none"> <li>- Serving function</li> <li>- Various guidance functions</li> </ul>

## AMR

 <b>Fulfillment</b>	 <b>Last-Mile Delivery</b>	 <b>Manufacturing automation</b>
 <b>Cleaning and disinfection</b>	 <b>Autonomous security</b>	 <b>Customer service</b>



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