

Generation ROBOTS

YOUR PARTNER IN ROBOTICS
AND ARTIFICIAL INTELLIGENCE



Brand of **NGX** ROBOTICS

Generation ROBOTS

16 years of experience in distribution and integration

With 16 years of expertise in robotics, Generation Robots is a **specialist distributor of robots and electronic components**. Our catalogue includes mobile robots, robotic arms, humanoid robots, assistance robots, LiDAR, depth cameras, servomotors, and more.

With offices in **France** and **Germany**, we are one of **Europe's leading distributors and consultants in service robotics**.



+6000

Research & B2B customers



1000

Products



+120

Countries provided



4,9/5

Customer satisfaction

NGX ROBOTICS

Generation Robots is part of the French group **NGX Robotics**, which comprises **four complementary entities** to cover all **multi-sectional** robotics needs (industrial, surveillance, research, robotics engineering, etc.).



Distributor of robots and service robotics equipment for businesses, research institutions, and higher education.



Design office specialising in **mobile robotics** and **AI**: hardware/software (ROS, SLAM, etc.) for various sectors: industry, agriculture, aerospace, construction, etc.



Manufacturer and distributor of an autonomous mobile robot for the **safety** and **security** of industrial, private, secure and exceptional sites.



Exclusive distributors of Doosan Robotics collaborative robots in France, we offer complementary **robotic solutions**.



QUADRUPEL ROBOTS

LITE 3

DEEP ROBOTICS



X30

DEEP ROBOTICS



SPOT

BOSTON DYNAMICS



DIMENSIONS	610 x 370 x 406 mm	1000 x 585 x 470 mm	1100 x 500 x 191 mm
WEIGHT	12 kg	56 kg	32,7 kg
PAYLOAD	7,5 kg	20 kg	14 kg
MAX SPEED	4 m/s	4 m/s	5,7 km/h
BATTERY LIFE	1,5 - 2 h	2,5 - 4 h	3 h
STEP HEIGHT	15 cm	20 cm	30 cm
PROTECTION RATING	-	IP67	IP54



BOW simplifies robotics programming for all levels.

Developers can code Deep Robotics' **Lite 3 Venture, Pro and Pro Lidar** robots using languages such as **ROS, Python and C++**, with the ability to build and test applications on **Windows or Linux** using an integrated simulator, real-time control and analysis tools.

READY-TO-USE BUSINESS PACKS

UNIVERSITY & RESEARCH



The **Spot Academia & Education** pack features ready-to-use functionality, offering vast possibilities for research, teaching and developing new applications.

SAFETY



The **Spot State & Public Safety** package offers a robust solution for reducing risks in potentially hazardous environments.

INSPECTION



The **Spot Enterprise Asset Management Kit** automates inspection tasks, providing accurate, real-time data to fuel preventive maintenance.



+33 (0)5 56 39 37 05



contact@generationrobots.com



www.generationrobots.com

OUTDOOR MOBILE ROBOTS

BUNKER MINI

AGILEX ROBOTICS



BUNKER PRO

AGILEX ROBOTICS



SCOUT MINI

AGILEX ROBOTICS



DIMENSIONS	690 x 570 x 335 mm	1064 x 845 x 473 mm	612 x 580 x 245 mm
WEIGHT	56 kg	180 kg	23 kg
PAYLOAD	25 kg	120 kg	10 kg
MAX SPEED	1 m/s	1.5 m/s	3 m/s
BATTERY LIFE	1h20	3 h	3 h
SLOPE DRIVING	30°	30°	30°
PROTECTION RATING	IP67	IP67	IP22

RANGER MINI 3.0

AGILEX ROBOTICS



RB SUMMIT

ROBOTNIK



RB VOGUI

ROBOTNIK



DIMENSIONS	720 x 500 x 345 mm	731 x 614 x 720 mm	1044 x 776 x 742 mm
WEIGHT	75 kg	65 kg	165 kg
PAYLOAD	100 kg	50 kg	150 kg
MAX SPEED	2 m/s	3 m/s	2,5 m/s
BATTERY LIFE	8 h	5 h	6 h
SLOPE DRIVING	15°	80°	47°
PROTECTION RATING	IP54	IP50 / IP53	IP50 / IP53

ACCELERATE YOUR ROBOTICS PROJECTS

Developed by the engineers in our GR Lab design office, our ROS 1 / ROS 2 R&D kit offers a **turnkey robotic solution** to save you assembly time.

- **Mechanics:** integration of components into the mobile base
- **Electronics:** connecting all the equipment
- **Software:** installation of ROS component packages

💡 The kit fits all our mobile bases: AgileX, Clearpath, Robotnik, Husarion...

[CONTACT US](#)



+33 (0)5 56 39 37 05



contact@generationrobots.com



www.generationrobots.com

OUTDOOR MOBILE ROBOTS

JACKAL

CLEARPATH ROBOTICS



HUSKY A300

CLEARPATH ROBOTICS



WARTHOG

CLEARPATH ROBOTICS



DIMENSIONS	508 x 430 x 250 mm	990 x 698 x 381 mm	1520 x 1380 x 830 mm
WEIGHT	17 kg	80 kg	280 kg
PAYLOAD	20 kg	100 kg	272 kg
MAX SPEED	2 m/s	2 m/s	5 m/s
BATTERY LIFE	4 h	4 h	3 h
SLOPE DRIVING	17°	30°	35 - 45°
PROTECTION RATING	IP54	IP54	IP65

LYNX

HUSARION



PANTHER

HUSARION



DIMENSIONS	650 m x 550 x 380 mm	840 x 805 x 365 mm
WEIGHT	40 kg	55 kg
PAYLOAD	65 kg	100 kg
MAX SPEED	1,5 m/s	2 m/s
BATTERY LIFE	4-6 h	8 h
SLOPE DRIVING	40°	44°
PROTECTION RATING	IP54/IP66	IP54/IP66



R&D KIT ROS 1 / ROS2: AN ALL-IN-ONE ROBOTIC KIT

- A powerful PC designed for developing advanced algorithms
- An IMU (inertial measurement unit)
- A depth camera
- 3D LiDAR
- RTK (Real Time Kinematic) compatible GPS
- A 4G modem (or optional 5G)



The components can be modified to suit your needs.



+33 (0)5 56 39 37 05



contact@generationrobots.com



www.generationrobots.com

INDOOR MOBILE ROBOTS

UMR
AGILEX ROBOTICS



ROSBOT XL
HUSARION



APOLLO 2.0
SLAMTEC



DIMENSIONS	830 x 540 x 410 mm	332 x 284 x 131 mm	520 x 270 mm
WEIGHT	90 kg	5 kg	40 kg
PAYLOAD	80 kg	10 kg	100 kg
MAX SPEED	1,5 m/s	0,8 m/s	0,7 m/s
BATTERY LIFE	4 h	2-6 h	16 h
SLOPE DRIVING	20°	17°	10°
PROTECTION RATING	IP65	IP54	IP65

DINGO
CLEARPATH ROBOTICS



RIDGEBACK
CLEARPATH ROBOTICS



DIMENSIONS	551 x 517 x 110 mm	960 x 793 x 311 mm
WEIGHT	9.1 kg	135 kg
PAYLOAD	20 kg	100 kg
MAX SPEED	1.3 m/s	1.1 m/s
BATTERY LIFE	1-4 h	15 h
OBSTACLE HEIGHT	14 mm	18 mm



A NEED FOR ROBOTIC INTEGRATION?

The engineers in **our robotics design office, the GR Lab**, are experts at solving innovative problems.

Specialising in robot design and the development of software and algorithms for **autonomous or semi-autonomous robots**, they will support your project at every stage, from the conceptual phase through to advanced implementation.

💡 Nuclear, energy, aeronautics, transport, agriculture... The GR Lab already has more than **300 projects** under its belt.

CONTACT US



+33 (0)5 56 39 37 05



contact@generationrobots.com



www.generationrobots.com

ROBOTIC ARMS

XARM
UFACTORY



GEN3
KINOVA



FRANKA FR3
FRANKA ROBOTICS



A0509
DOOSAN ROBOTICS



DOF	5,6 ou 7	6 ou 7	7	6
REACH	700 mm	900 mm	855 mm	900 mm
PAYLOAD	3 - 5 kg	2 - 4 kg	3 kg	5 kg
MAX SPEED	1 m/s	0,5 m/s	2 m/s	1 m/s
REPEATABILITY	±0.1 mm	±0.5 mm	±0.1 mm	±0.1 mm
WEIGHT	11 - 14 kg	7 - 8 kg	18 kg	21 kg
IP	IP54	IP33	IP40	IP54

PIPER
AGILEX ROBOTICS



NED3 PRO
NIRYO



PINCHERX 150
TROSSEN ROBOTICS



VIPERX ALOHA
TROSSEN ROBOTICS



DOF	6	6 ou 7	5	6
REACH	626 mm	500 mm	150 mm	750 mm
PAYLOAD	1,5 kg	500 g	50 g	750 g
REPEATABILITY	±0.1mm	±0.3 mm	5 mm	1mm
WEIGHT	4,2 kg	7,4 kg	3,6 kg	4,75 kg



COLLABORATIVE ROBOTS: OUR PROVEN EXPERTISE

Since 2016, the **HumaRobotics** division, the exclusive distributor of **Doosan Robotics** collaborative robots, has been helping companies of all sizes with their collaborative robotics projects.

We have already installed more than **200 collaborative robots** in France.

If you have a project, HumaRobotics assists manufacturers with their automation and collaborative robotisation initiatives.



HumaRobotics has **Qualiopi certification** for its training courses.



+33 (0)5 56 39 37 05



contact@generationrobots.com



www.generationrobots.com

ASSISTANCE ROBOTS

AVAILABLE FOR RENT

PROFESSIONAL CLEANING ROBOTS

CC1

PUDU ROBOTICS



MT1

PUDU ROBOTICS



SH1

PUDU ROBOTICS



DIMENSIONS	663 x 568 x 682 mm	840 x 600 x 490 mm	490 x 530 x 1200 mm
WEIGHT	60 kg	65 kg	27 kg
SPEED	1.2 m/s	0.2 ~ 1.2 m/s	350 tr/min
BATTERY LIFE	9 h	4-8 h	70 - 100 min
CHARGING TIME	< 4 h	< 3 h	2,5 h
CLEANING EFFICIENCY	700-1000 m²/h	1800-6000 m²/h	1100-1600 m²/h
THE PRODUCT +	4-in-1 cleaning	AI recognition of waste	Multidimensional cleaning

RECEPTION ROBOTS

BELLABOT PRO

PUDU ROBOTICS



KETTYBOT PRO

PUDU ROBOTICS



TÉMI 3

TÉMI



DIMENSIONS	550 x 550 x 1 290 mm	435 x 450 x 1120 mm	350 x 1000 x 450 mm
WEIGHT	57 kg	38 kg	12 kg
SPEED	0.2 ~ 1.2 m/s	0.5 ~ 1.2 m/s	1 m/s
BATTERY LIFE	12 - 24 h	8 h	8 h
CHARGING TIME	4,5 h	4,5 h	2,5 h
PAYLOAD	10 kg / tray	10 kg / tray	3 kg
SCREEN DIMENSIONS	18.5 inches	18.5 inches	10.1 inches



RENT YOUR SERVICE ROBOT

Whether you need a robot for a short period or an event or want to test its functionality before purchasing, our **flexible rental** option can meet your needs.

[CONTACT US](#)



+33 (0)5 56 39 37 05



contact@generationrobots.com



www.generationrobots.com

ASSISTANCE ROBOTS

AVAILABLE FOR RENT

DELIVERY ROBOTS

PUDUBOT 2

PUDU ROBOTICS



SWIFTBOT

PUDU ROBOTICS



T300

PUDU ROBOTICS



DIMENSIONS	580 x 535 x 1 290 mm	488 x 593 x 1281 mm	780 x 500 x 1340 mm
WEIGHT	39 kg	49/55 kg	60 kg
SPEED	0.5 ~ 1.2 m/s	0,5 à 1,2 m/s	1.2 m/s
BATTERY LIFE	12 h (unloaded)	10 à 24 h	12 h (unloaded)
CHARGING TIME	3 h	4,5h	2 h
PAYLOAD	13 kg/ tray	35 kg	300 kg

SERVICE ROBOTS IN 5 KEY POINTS

- Quick installation & configuration**
Operational in just a few minutes
- Easy to use**
No programming expertise required (no code)
- Certified and designed for safety**
Meets the most demanding industry standards (RGPD, CE...)
- Versatility**
Models adapted to various applications (delivery, reception, etc.) and environments (restaurants, hotels, offices, hospitals, etc.)
- Reducing arduous work**
Reduces repetitive and physical tasks to improve employee well-being



OUR SUPPORT



ON-SITE DELIVERY

We deliver anywhere in France.



INSTALLATION AND TRAINING

Our team is here to help you configure your robot.



SUPPORT

A specialist team is on hand to help you with any problems you may have with your robot.



DEMONSTRATION

Demonstrations are available at your establishment or our premises in Mérignac.

HUMANOID ROBOTS

NAO V6

ALDEBARAN



- + 25 degrees of freedom
- + 7 touch sensors
- + 4 directional microphones + speakers
- + Voice recognition available in 20 languages
- + 2 x 2D cameras
- + Open and fully programmable platform

BOOSTER T1

BOOSTER ROBOTICS



VOICE MODULE
6 microphones + speaker

VISION MODULE
Depth camera, LIDAR (optional)

DoF Head: 2

COMPUTING POWER
200 TOPS IA

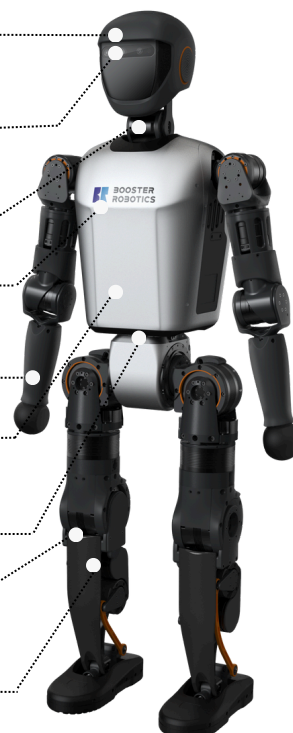
DoF Arms: 4

BATTERY
1.5 h (walking)

DoF Size: 1

JOINT
Max. torque 130 N.m | Dual encoder

DoF Legs: 6



DR01

DEEP ROBOTICS



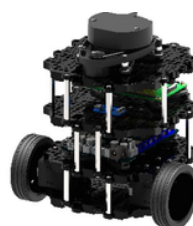
- + Speed : 1,6 m/s
- + Step height: 18 cm
- + Slope capacity: 25°
- + J60 lightweight and J100 high-torque seals
- + Autonomous learning via AI and big data

ROBOTS FOR HIGHER EDUCATION

TURTLEBOT 4
CLEARPATH ROBOTICS



TB3 BURGER
ROBOTIS



TB3 WAFFLE PI
ROBOTIS



DIMENSIONS	341 x 339 x 351 mm	138 x 178 x 192 mm	281 x 306 x 141 mm
WEIGHT	3.9 kg	995 g	1,8 kg
PAYLOAD	15 kg	15 kg	30 kg
SPEED MAX	0.46 m/s	0,22 m/s	0,26 m/s
BATTERY LIFE	2,5 - 4 h	2h30	2 h
CHARGING TIME	2h30	2h30	2h30

LIMO ROS2
AGILEX ROBOTICS



LIMO COBOT
AGILEX ROBOTICS



ROSBOT3
HUSARION



LEO ROVER
FICTIONLAB



DIMENSIONS	322 x 220 x 251 mm	322 x 200 x 550 mm	200 x 237 x 146 mm	410 x 460 x 270 mm
WEIGHT	4,8 kg	5,6 kg	2,84 kg	6,5 kg
PAYLOAD	4 kg	0,25 kg	5 kg	5 kg
SPEED MAX	1 m/s	1 m/s	1 m/s	0.4 m/s
BATTERY LIFE	2h30	2h30	1,5 - 5 h	4 h



AUTONOMOUS ROBOTS FOR RESEARCH AND TEACHING

Husarions' ROSbot robots are open-source autonomous robots that can be used as a learning platform for **ROS 1** and **ROS 2**. They offer a full range of educational tools, including

- A development platform
- Online resources
- Gazebo simulation models
- A wide selection of tutorials and specialist manuals

DYNAMIXEL SERVO MOTORS



DYNAMIXEL



- **AX series:** for use with your robot's **non-essential mechanical functions**.
- **MX series:** precise position control, **PID correction** and faster communication capability.

DYNAMIXEL-X



- **XL Series:** small, economical servos. Suitable for small robotic assemblies and **rapid prototyping**.
- **X Series:** more powerful and resistant, **sealed or two-degree-of-freedom servos**.

DYNAMIXEL-P



- **PM series:** **high-precision** servos with a resolution of 500,000 pulses per revolution and up to 60 W output power and 10 Nm torque.
- **PH series:** **ultra-high-precision** servos with a resolution of 1,000,000 pulses per revolution and up to 100 W output power and 44 Nm torque.

DYNAMIXEL-Y



- **YM070 series:** lighter, smaller, faster, with moderate torque and sufficient precision for **simple or educational applications**.
- **YM080 Series:** more powerful, larger, and precise, with higher torque, ideal for **heavier applications** and robots requiring more force and control.



LIDAR

OS1
OUSTER



HELIOS 16-P
ROBOSENSE



OSDOME
OUSTER



VERTICAL RESOLUTION	32, 64 ou 128	16	64 ou 128
RANGE	100 m	150 m	100 m
ACCURACY	± 0.5 cm à ± 5 cm	± 2 cm à ± 3 cm	± 1 cm à ± 5 cm
FIELD OF VISION (H)	360°	360°	360°
FIELD OF VISION (V)	45°	30°	180°
PROTECTION RATING	IP68, IP69K	IP67	IP68, IP69K
WEIGHT	447 g	900 g	447 g

M1 PLUS
ROBOSENSE



RPLIDAR S3
SLAMTEC



RPLIDAR A2M12
SLAMTEC



VERTICAL RESOLUTION	16	16	1
RANGE	200 m	0,05 - 40 m	0,2 - 12 m
ACCURACY	Jusqu'à ± 5 cm	±30mm	±2 cm
FIELD OF VISION (H)	120°	360°	360°
FIELD OF VISION (V)	25°	30°	30°
PROTECTION RATING	IP67	IP65	IP54
WEIGHT	690 g	115 g	190 g



MATHIS GODARD, ROBOTICS ENGINEER AT GR LAB

"At Generation Robots, I've worked on many mobile robotics projects in which I've integrated LiDARs from different brands. I've found that the **Ouster LiDAR** stands out for its finish, ultra-compact size and HD image quality."



DEPTH CAMERAS

D435

INTEL REALSENSE



D455

INTEL REALSENSE



D456

INTEL REALSENSE



DIMENSIONS	90 mm × 25 mm × 25 mm	124 mm × 29 mm × 26 mm	124 mm × 29 mm × 36 mm
RANGE	0.3 - 3 m	0.6 - 6 m	0.6 - 6 m
FIELD OF VIEW	87° × 58°	87° × 58°	87° × 58°
FRAME RATE	90 fps	90 fps	90 fps
RESOLUTION	1280 × 720	1280 × 720	1280 × 720
ACCURACY	<2% à 4 m	<2% à 2 m	<2% à 4 m
USE	Indoor & outdoor	Indoor & outdoor	Indoor & outdoor (IP67)

ZED MINI

STEREOLABS



ZED X

STEREOLABS



ZED 2i

STEREOLABS



DIMENSIONS	124,5 x 30,5 x 26,5 mm	164 x 32 x 37 mm	175,25 x 30,25 x 43,10 mm
WEIGHT	60 g	240 g	230 g
RANGE	0.1 - 15m	0.3 - 20 m	0.3 - 20 m
FIELD OF VIEW	102° x 57° x 118°	110° x 80° x 120°	110 x 70 x 120°
FRAME RATE	Up to 100Hz	Up to 120Hz	Up to 100Hz
RESOLUTION	1080p @30fps	2 x (1920x1200) @60fps	1080p @30fps
USE	Indoor	Indoor & Outdoor (IP67)	Indoor & Outdoor (IP66)

REQUEST A QUOTE

As a school, laboratory, or training centre, you can pay using an **administrative order, Chorus Pro, or bank transfer.**

Payment can be made within 30 days.

Contact us for a quote using our online form or email:

contact@generationrobots.com.

You can also send us your order form directly by email or post.

Contact us:



Generation ROBOTS

Why order from Generation Robots?

1 +16 years of expertise in robotics

With over a decade of expertise, Generation Robots is a trusted player recognised for its reliability by companies, researchers and educational establishments.

2 GR Lab: an integrated research department

Our team of engineers develop custom robots with in-depth knowledge of **ROS 1** and **ROS 2** to meet the specific needs of robotics projects.

3 Strict selection of products

We test every product before adding it to our catalogue, guaranteeing impeccable quality. Our partners include prestigious brands such as **Boston Dynamics**, **Clearpath Robotics** and **Robotis**.

4 Reactive customer service

A team that listens to you, responds to your requests in less than **24 hours** and ensures that every stage, from quotation to delivery, runs smoothly.

5 Key account portfolio

With more than **6,000 customers**, including renowned universities (**Oxford**, **ETH Zürich**) and major companies (**Thales**, **Engie**), we have the trust of the biggest names.





Our design office of ROS experts specialising in robotics and AI



The GR Lab, staffed by engineers and PhDs in robotics and AI, responds to innovative problems in research and industry.

Specialising in the design of **autonomous** and **semi-autonomous robots**, it develops advanced software and algorithms for SLAM, navigation, data fusion and 2D/3D modelling.

Our skills



Machine learning



Deep learning



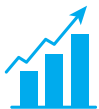
Mapping



Kalman



Data fusion



Advanced algorithms



Simulation
(Gazebo, Rviz)



Direct and indirect kinematics



SLAM
(Simultaneous Localisation and Mapping)



PCL (Point Cloud Library)

Our support

- 1 Feasibility study:** with the help of our experts, we assess how your idea can be put into practice.
- 2 Hardware installation:** assembling kits, adding sensors or integrating on mobile platforms to optimise your time.
- 3 Algorithmic and ROS development (ROS1/ROS2):** navigation, manipulation, 2D/3D vision... we cover all your software needs.
- 4 Prototyping phase:** turnkey project management. From specification to delivery.

THE GROUP'S BRANDS



Our design office of ROS experts specialising in robotics and AI



Advanced robotics for professionals

ROS, SLAM, data fusion...



Artificial intelligence

Machine Learning,
human-robot interaction,
advanced algorithms...



Expertise ROS 1 & ROS 2

Robot Operating System

Over 300 projects
under our belt

Whether nuclear, energy,
aeronautics, transport or
agriculture, we've designed
tailor-made robotic solutions
for various economic sectors,
and know the challenges
they face.



THE GROUP'S BRANDS



The GR100 is an autonomous outdoor robot dedicated to the **safety** of installations and the **security** of **sensitive sites**.

Essential for **routine inspections** or to provide information on a situation in an emergency, the GR100 detects anomalies using its onboard algorithms.

It patrols each site continuously and **autonomously**. It avoids obstacles, recharges itself and adapts to its environment and nearby installations.



- ✓ **24-hour productivity**
- ✓ **Dual mission:** Safety & Security
- ✓ Hardware & Software **Made in France**

AREAS OF INTERVENTION: storage warehouses, industrial and Seveso sites, energy, oil & gas, chemical sites, sorting and recycling centres, ports, airports, and places of interest.

ROBOT AS A SERVICE €4000/MONTH

- ✓ Rental of the robot and its loading dock
- ✓ Pack of 5 single POIs/TOIs
- ✓ RB-OC interface
- ✓ Software developments, AI and functionalities
- ✓ 2 x 4G chips per robot
- ✓ Customer service
- ✓ 24-hour technical standby
- ✓ Maintenance (parts and labour)



Notes

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

Generation ROBOTS

By **NGX** ROBOTICS

CONTACT US :

FRANCE



+33 (0)5 56 39 37 05



contact@generationrobots.com



1 rue Pierre-Georges Latécoère
33700 Mérignac, France

GERMANY



+49 (0) 30 21 02 59 66



service@generationrobots.com



c/o Unicorn, Französische
Straße 24
10117 Berlin, Deutschland