

to.50

MODULAR AUTONOMOUS MOBILE ROBOTICS / 2026

ONE BASE. SEVEN MISSIONS.

A modular robotic platform for retail, hospitality, healthcare, logistics and mobile media.



BUILT ONCE

REIMAGINED ENDLESSLY.

Dobby is not a collection of unrelated robots. It is one autonomous foundation with application-specific upper modules, allowing organizations to deploy, adapt and scale without rebuilding the intelligence underneath.



INTELLIGENT BASE

PURPOSE-BUILT MISSIONS

One technology stack. One control logic. Seven operational forms.

ONE PLATFORM / MULTIPLE MISSIONS

THE SYSTEM, TOGETHER.

Every configuration inherits autonomous navigation, remote operations, automatic docking and a shared support ecosystem.



● **BASE**

● SERVE

● GAP

● CART

● SORT

● AD

● HEALTH

● AD PRO

THE COMMON FOUNDATION

INTELLIGENCE IN MOTION.

Dobby is a versatile mobile base designed to adapt across service, retail, logistics and advertising operations. Application modules change; the autonomous intelligence remains.

- **LIMITLESS INTEGRATION**

Accessories and custom modules can be engineered around project needs.

- **EASY TO INSTALL**

Simple setup, fleet management and task adaptation through the web interface.

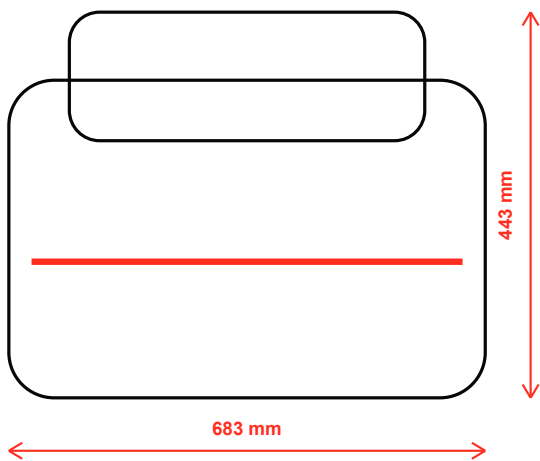
- **BUILT TO SCALE**

One operating logic supports multiple configurations and future expansion.



DIMENSIONAL SCHEMATIC

ENGINEERED AS A UNIVERSAL CORE.



FRONT ELEVATION / NOT TO SCALE

DIMENSIONS

683 x 609 x 443 mm

WEIGHT

35 kg

MAX. SPEED

1.1 m/s

PAYLOAD CAPACITY

50 kg

MAX. AUTONOMY

10 h

TRACTION

Differential drive

PLATFORM CAPABILITIES

- Autonomous mapping in shared human environments up to 25,000 m².
- Remote 24/7 technical support and service with remote diagnosis.
- Fleet, task and autonomous-behaviour management through a user-friendly interface.
- Open-source simulation model and tutorials available on request.

ONE TECHNOLOGY STACK

EVERY MISSION.

Navigation, sensing, control and support remain consistent across the family, creating operational continuity at fleet scale.

01

AUTONOMOUS NAVIGATION

LiDAR-based SLAM, route planning and localization.

02

INTELLIGENT PERCEPTION

Multi-layer sensing for people, objects and changing spaces.

03

REMOTE OPERATIONS

Mission planning, content, status and reports in one layer.

04

AUTOMATIC CHARGING

Autonomous docking reduces day-to-day intervention.

05

OPERATIONAL SAFETY

Controlled movement and visible status for public spaces.

06

ACTIONABLE REPORTING

Live mission and performance data across the deployment.

SEVEN FORMS. ONE INTELLIGENCE.

Choose a mission. Dobby transforms.

01	DOBBY SERVE	
02	DOBBY GAP	
03	DOBBY CART	
04	DOBBY SORT	
05	DOBBY AD	
06	DOBBY HEALTH	
07	DOBBY AD PRO	

PRODUCT 01 / 07 - HOSPITALITY SERVICE

DOBBY SERVE

Service, elevated.



DOBBY BASE

An autonomous service robot designed to move food, beverages and supplies safely between kitchen, service and guest areas.

TECHNICAL SPECIFICATIONS

DIMENSIONS

483 x 609 x 1443 mm

WEIGHT

45 kg

MAX. SPEED

1.1 m/s

CAPACITY

215 L

MAX. AUTONOMY

9 h

MAX. SLOPE

15 deg

KEY FEATURES

- A spacious 215 L service volume supports streamlined delivery.
- Adjustable tray levels accommodate items at 25, 45 and 75 cm.
- Precise navigation supports positioning near closely spaced tables.
- Up to 9 hours of autonomous operation with autonomous mapping.

Configuration-dependent specifications. Confirm project values with Tosso Engineering.

PRODUCT 02 / 07 - RETAIL ANALYTICS

DOBBY GAP

Every shelf, understood.



DOBBY BASE

A retail intelligence configuration that scans shelves, identifies gaps and barcode inconsistencies, and turns daily store walks into actionable data.

TECHNICAL SPECIFICATIONS

DIMENSIONS

483 x 609 x 1577 mm

WEIGHT

39 kg

MAX. SPEED

1.1 m/s

MAX. AUTONOMY

9 h

MAX. SLOPE

15 deg

REPORTING

Gap + barcode

KEY FEATURES

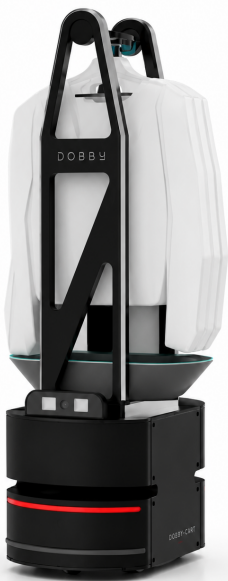
- Customer and department orientation inside the store.
- Daily barcode control and reporting for labels that need to change.
- Daily aisle-gap checks with missing products marked on the map.
- Up to 9 hours of autonomous operation with autonomous mapping.

Configuration-dependent specifications. Confirm project values with Tosso Engineering.

PRODUCT 03 / 07 - RETAIL TRANSPORT

DOBBY CART

Carry more. Move smarter.



DOBBY BASE

An autonomous carrier for retail goods, garments and lightweight materials, engineered to support customer journeys and back-of-house logistics.

TECHNICAL SPECIFICATIONS

DIMENSIONS

483 x 609 x 1535 mm

WEIGHT

43 kg

MAX. SPEED

1.1 m/s

CAPACITY

215 L

MAX. AUTONOMY

9 h

MAX. SLOPE

15 deg

KEY FEATURES

- Suitable for retail environments with mapped areas up to 25,000 m2.
- Can operate for up to 9 hours while following a customer route.
- Carries selected products so customers can continue shopping freely.
- Supports autonomous mapping and point-to-point missions.

Configuration-dependent specifications. Confirm project values with Tosso Engineering.

PRODUCT 04 / 07 - SORTING AND HANDLING

DOBBY SORT

Flow, organized.



DOBBY BASE

A compact sorting and transfer configuration developed for item routing, internal handling and line-side logistics.

TECHNICAL SPECIFICATIONS

DIMENSIONS	WEIGHT
483 x 609 x 1535 mm	43 kg
MAX. SPEED	CAPACITY
1.1 m/s	215 L
MAX. AUTONOMY	MAX. SLOPE
9 h	15 deg

KEY FEATURES

- Modular and flexible sorting platform.
- Autonomous navigation with intelligent path planning.
- Configurable destinations including bins, totes and shelves.
- Warehouse software integration, live status and data logging.
- Automated charging, docking and maintenance cycle.

Configuration-dependent specifications. Confirm project values with Tosso Engineering.

PRODUCT 05 / 07 - MOBILE ADVERTISING

DOBBY AD

Visibility in motion.



DOBBY BASE

A mobile digital advertising platform that carries branded content into the natural flow of visitors, shoppers and event audiences.

TECHNICAL SPECIFICATIONS

DIMENSIONS

483 x 609 x 1577 mm

WEIGHT

59 kg

MAX. SPEED

1.1 m/s

MAX. AUTONOMY

9 h

MAX. SLOPE

15 deg

CONTROL

Remote

KEY FEATURES

- Displays scheduled advertising for up to 9 hours.
- Designed for retail stores, shopping malls, fairs and events.
- Task start, task end and content controls can be managed remotely.
- Supports autonomous mapping and audience-area routes.

Configuration-dependent specifications. Confirm project values with Tosso Engineering.

PRODUCT 06 / 07 - HEALTHCARE WAYFINDING

DOBBY HEALTH

Guidance with care.



DOBBY BASE

A multilingual patient and visitor guidance system designed for hospitals, clinics and healthcare campuses.

TECHNICAL SPECIFICATIONS

DIMENSIONS

483 x 609 x 1435 mm

WEIGHT

47 kg

MAX. SPEED

1.1 m/s

MAX. AUTONOMY

9 h

MAX. SLOPE

15 deg

LANGUAGES

20+

KEY FEATURES

- Multilingual NLP communication in more than 20 languages.
- Autonomous patient guidance reduces staff workload.
- Fast, responsive high-resolution touchscreen interface.
- Optimized for hospital environments and autonomous mapping.

Configuration-dependent specifications. Confirm project values with Tosso Engineering.

PRODUCT 07 / 07 - PREMIUM MOBILE MEDIA

DOBBY AD PRO

Maximum impact, autonomous.



DOBBY BASE

An autonomous large-format digital advertising platform for shopping malls, fairs and busy indoor spaces, combining LiDAR navigation with remote content management and intelligent route planning.

TECHNICAL SPECIFICATIONS

DIMENSIONS	WEIGHT
755 x 700 x 1800 mm	130 kg
MAX. SPEED	CHARGING TIME
1.0 m/s	3 h
MAX. AUTONOMY	MAX. SLOPE
12 h	10 deg
NAVIGATION	CHARGING
LiDAR + sensor fusion	Automatic docking

KEY FEATURES

- Large-format mobile media presence for premium campaigns.
- Safe autonomous movement in high-traffic indoor environments.
- Remote content management and measurable campaign operation.
- Intelligent routes carry the brand directly to target audiences.

Configuration-dependent specifications. Confirm project values with Tosso Engineering.

TECHNICAL OVERVIEW

SEVEN FORMS. ONE OPERATING LOGIC.

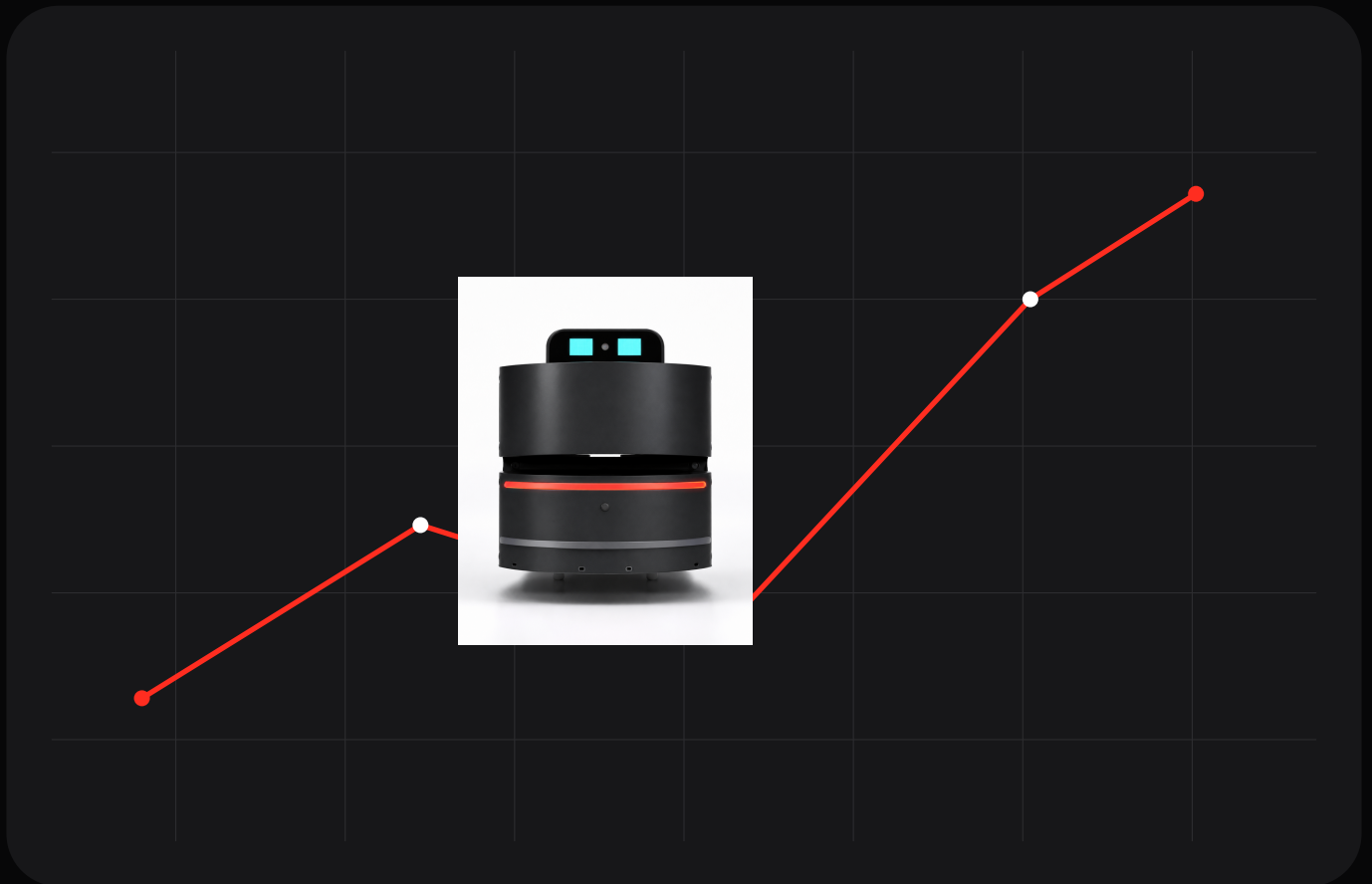
All configurations inherit the core navigation and operational logic of Dobby Base. Physical values reflect the product brochure and may vary by configuration.

MODEL	DIMENSIONS	KG	M/S	H	SLOPE
SERVE	483 x 609 x 1443	45	1.1	9	15 deg
GAP	483 x 609 x 1577	39	1.1	9	15 deg
CART	483 x 609 x 1535	43	1.1	9	15 deg
SORT	483 x 609 x 1535	43	1.1	9	15 deg
AD	483 x 609 x 1577	59	1.1	9	15 deg
HEALTH	483 x 609 x 1435	47	1.1	9	15 deg
AD PRO	755 x 700 x 1800	130	1.0	12	10 dea
DOBBY BASE					
683 x 609 x 443 mm / 35 kg / 1.1 m/s / 50 kg payload / 10 h autonomy / differential drive					

AUTONOMOUS OPERATIONS

CONTROL, EVEN WHEN YOU ARE AWAY.

Plan routes, assign tasks, monitor status and refine operations from one remote layer.

**25,000 m²**

MAPPED AREA

24 / 7

REMOTE SUPPORT

REAL TIME

TASK CONTROL

A LONG-TERM ROBOTICS PARTNER

ROBOTICS DESIGNED FOR REAL OPERATIONS.

From first installation to fleet optimization, Tosso combines engineering, software and field support in one partnership.

10+ YEARS

INDUSTRY EXPERTISE

Robotics experience and tailored solutions across diverse industries.

30 MIN

RAPID RESPONSE

A locally based after-sales team and remote diagnosis for operational continuity.

3 HOURS

RESOLUTION TARGET

Fast issue resolution target for supported deployments.

SECURE

DATA + DEVICE

Advanced measures protect sensitive information and operational integrity.

EXTEND THE SYSTEM

READY FOR THE NEXT REQUIREMENT.



PHYSICAL ADD-ONS

CAMERA ADD-ON

Application-specific visual monitoring and perception.

DOCK STATION

Automatic return and charging for continuous operation.

ADDITIONAL CHARGER

Flexible charging capacity for fleet and site requirements.

CUSTOM MODULE

Mechanical and software integration for new use cases.

BUILD YOUR DOBBY SYSTEM

LET'S DESIGN THE WORKFLOW.

Tell us what your operation needs. We will help select the right configuration, plan the site and design the complete robotic workflow.



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START A PROJECT

t0.550

ROBOTICS FOR INDUSTRIES.



TOSSO ENGINEERING

Modular autonomous robotic systems designed and developed in Türkiye.

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Specifications may change with product development. Project-specific data must be confirmed by Tosso Engineering.