
**GBL 1.5t Bidirectional Latent Paper Roll Outbound Robot** can automatically move underneath materials and transport them to designated storage positions. With bidirectional movement, it enables intelligent material distribution. Paper roll outbound robot operates with high stability, accuracy, and flexibility - capable of forward, backward, turning, and branch-path movement, with a maximum load capacity of 1500 kg. It adopts a hybrid navigation system combining QR code and inertial guidance, ensuring precise positioning, flexible application, and real-time route planning and adjustment. Its advanced scheduling algorithm guarantees stable performance and comprehensive functionality.

Compact structure

Flexible motion control

Multi-AGV intelligent coordination

Minimalist human-machine interaction

Multiple safety protections


**Technical specifications**

| GBL 1.5t Bidirectional Latent Paper Roll Outbound Robot | | |
|---|---|---|
| Basic parameters | Dimensions L*W*H (mm) | 1070*850*280 |
| | Turning radius (mm) | 560 |
| | Net weight (kg) | 320 |
| | Rated load (kg) | 1500 |
| | Lifting height (mm) | 60 |
| | Obstacle height (mm) | 5 |
| | Obstacle width (mm) | 10 |
| | Gradeability(%) | ≥5 |
| | Motion mode | Forward, backward, in-place rotation |
| | Navigation mode | QR code + Inertial navigation |
| | Noise level | ≤75dB |
| | Communication mode | WIFI, 5G (optional) |
| | Charging mode | Automatic + Manual |
| Safety protection | Active obstacle avoidance | Front laser detection |
| | Audio-visual alarm | Light |
| | Bumper detection | Pneumatic bumpers on all sides |
| | Emergency stop | Front and rear emergency stop buttons |
| Motion performance | Positioning accuracy (mm) | < ±5 |
| | Angular accuracy (°) | < ±1 |
| | Rated speed (no load) (mm/s) | 1200 |
| | Rated speed (full load) (mm/s) | 1000 |
| Battery performance | Battery type | $LiFePO_4$ |
| | Rated voltage (V) | 48 |
| | Capacity (Ah) | 40 |
| | Operating time (h) | 8 |
| | Charging time (h) | ≤2 hours after full discharge |

**Specifications are subject to change without notice. Please contact us for details.*

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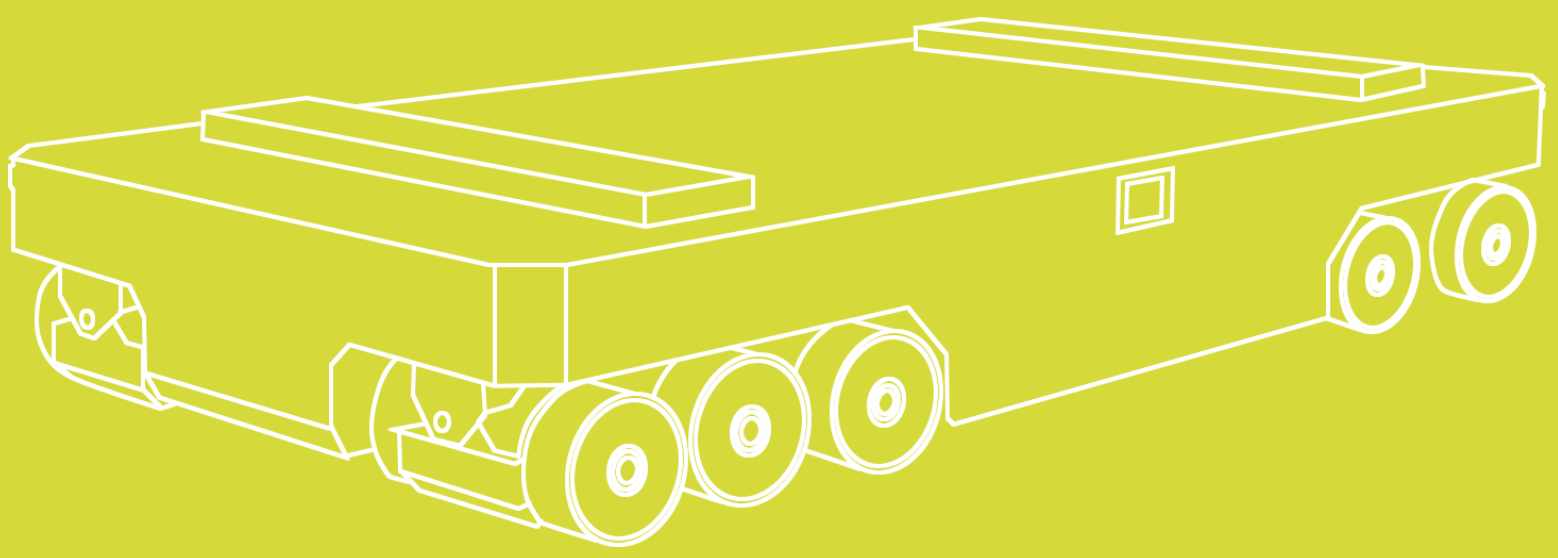

# PAPER ROLL OUTBOUND ROBOT

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The paper roll outbound robot provided by GBCRANES adopt advanced LiDAR-based natural navigation technology. By intelligently recognizing the environment, they achieve precise positioning and autonomous path planning. Their strong environmental adaptability ensures stable operation under high and low temperatures as well as in complex weather conditions, allowing them to perform reliably even in outdoor environments with seasonal changes. With a maximum load capacity of up to 10 tons across three standard models, these paper roll outbound robot offer a safe, precise, and efficient unmanned handling solution for paper rolls - significantly improving production efficiency and reducing operational costs.


**GBH 3t Heavy-Duty Paper Roll Outbound Robot** provides a single-vehicle load capacity of 3 tons. It supports in-place rotation and lateral movement, making it ideal for transporting large-sized paper rolls. It can operate on asphalt, self-leveling, and concrete floors, showing strong adaptability to various ground conditions. Equipped with a self-lifting mechanism, the Paper Roll Outbound Robots can directly carry workpieces or move underneath a rack, lift it, and indirectly transport the load. It adopts a hybrid navigation system combining PGV and QR code for fully automated operation, while also supporting remote control when needed.

Efficient transportation

High load capacity

Multiple operation modes

Minimalist human-machine interaction

Multiple safety protections


**Technical specifications**

| | GBH 3t Heavy-Duty Paper Roll Outbound Robot | |
|---|---|---|
| Basic parameters | Dimensions L*W*H (mm) | 2100*1800*590 |
| | Turning radius (mm) | 1025 |
| | Net weight (kg) | 1500 |
| | Rated load (kg) | 3000 |
| | Lifting height (mm) | 120 |
| | Obstacle height (mm) | 5 |
| | Obstacle width (mm) | 10 |
| | Gradeability(%) | ≥5 |
| | Motion mode | Forward, backward, in-place rotation, lateral movement |
| | Navigation mode | PGV + QR code |
| | Noise level | ≤75dB |
| | Communication mode | WIFI, 5G (optional) |
| | Charging mode | Automatic + Manual |
| Safety protection | Active obstacle avoidance | Front, rear, left, and right laser obstacle detection |
| | Audio-visual alarm | Light |
| | Bumper detection | Pneumatic bumpers (front and rear) |
| | Emergency stop | Emergency stop buttons at front-left/right and rear-left/right |
| Motion performance | Positioning accuracy (mm) | < ±5 |
| | Angular accuracy (°) | < ±1 |
| | Rated speed (no load) (mm/s) | 1000 |
| | Rated speed (full load) (mm/s) | 800 |
| Battery performance | Battery type | $LiFePO_4$ |
| | Rated voltage (V) | 48 |
| | Capacity (Ah) | 120 |
| | Operating time (h) | 8 |
| | Charging time (h) | ≤2 hours after full discharge |

**Specifications are subject to change without notice. Please contact us for details.*


**GBH 10t Heavy-Duty Paper Roll Outbound Robot** provides a single-vehicle load capacity of 10 tons. It supports in-place rotation and lateral movement, making it ideal for transporting large-sized and heavy paper rolls. It can operate on asphalt, self-leveling, and concrete floors, offering excellent adaptability to various ground conditions. Equipped with a self-lifting mechanism, the Paper Roll Outbound Robots can directly carry workpieces or move underneath a rack, lift it, and indirectly transport the load. It adopts a hybrid navigation system combining PGV and QR code for fully automated operation, while also supporting remote control when needed

High load capacity

Multiple operation modes

Multi-AGV intelligent coordination

Minimalist human-machine interaction

Multiple safety protections


**Technical specifications**

| | GBH 10t Heavy-Duty Paper Roll Outbound Robot | |
|---|---|---|
| Basic parameters | Dimensions L*W*H (mm) | 4000*2000*650 |
| | Turning radius (mm) | 2200 |
| | Net weight (kg) | 2800 |
| | Rated load (kg) | 10000 |
| | Lifting height (mm) | 120 |
| | Obstacle height (mm) | 5 |
| | Obstacle width (mm) | 10 |
| | Gradeability(%) | ≥5 |
| | Motion mode | Forward, backward, in-place rotation, lateral movement |
| | Navigation mode | PGV + QR code |
| | Noise level | ≤75dB |
| | Communication mode | WIFI, 5G (optional) |
| | Charging mode | Automatic + Manual |
| Safety protection | Active obstacle avoidance | Front, rear, left, and right laser obstacle detection |
| | Audio-visual alarm | Light |
| | Bumper detection | Pneumatic bumpers (front and rear) |
| | Emergency stop | Emergency stop buttons at front-left/right and rear-left/right |
| Motion performance | Positioning accuracy (mm) | < ±5 |
| | Angular accuracy (°) | < ±1 |
| | Rated speed (no load) (mm/s) | 700 |
| | Rated speed (full load) (mm/s) | 700 |
| Battery performance | Battery type | $LiFePO_4$ |
| | Rated voltage (V) | 48 |
| | Capacity (Ah) | 200 |
| | Operating time (h) | 8 |
| | Charging time (h) | ≤2 hours after full discharge |

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