

# Product Specifications

## Berrybot Pro

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V1.0

# AMR


Type


AMR

| Project                         | Berrybot Pro   | Remark                             |
|---------------------------------|--|------------------------------------|
| Shape                           |  |                                    |
| Type                            | Warehouse robot  |                                    |
| Product name                    | Berrybot Pro   |                                    |
| Size                            | 1052*712*1387mm  |                                    |
| Rotation diameter               | 1470mm   |                                    |
| Max payload                     | 200kg  |                                    |
| Self-weight (including battery) | 90kg   |                                    |
| Accessories                     | Charger  | Automatic/Manual charging          |
|                                 | 8inch tablet   | Control terminal (touch operation) |

# AMR

## Accessories

| Project             | Charger   | Remark |
|---------------------|---|--------|
| Shape               |  |        |
| Input voltage       | 100V~240V   |        |
| Maximum input power | 500W  |        |
| Charging voltage    | 54.6V   |        |

| Project             | Automatic charging pile   | Remark |
|---------------------|---|--------|
| Shape               |  |        |
| Size                | 410mm*340mm*274mm   |        |
| Input voltage       | 100V~240V   |        |
| Maximum input power | 500W  |        |
| Charging voltage    | 54.6V   |        |

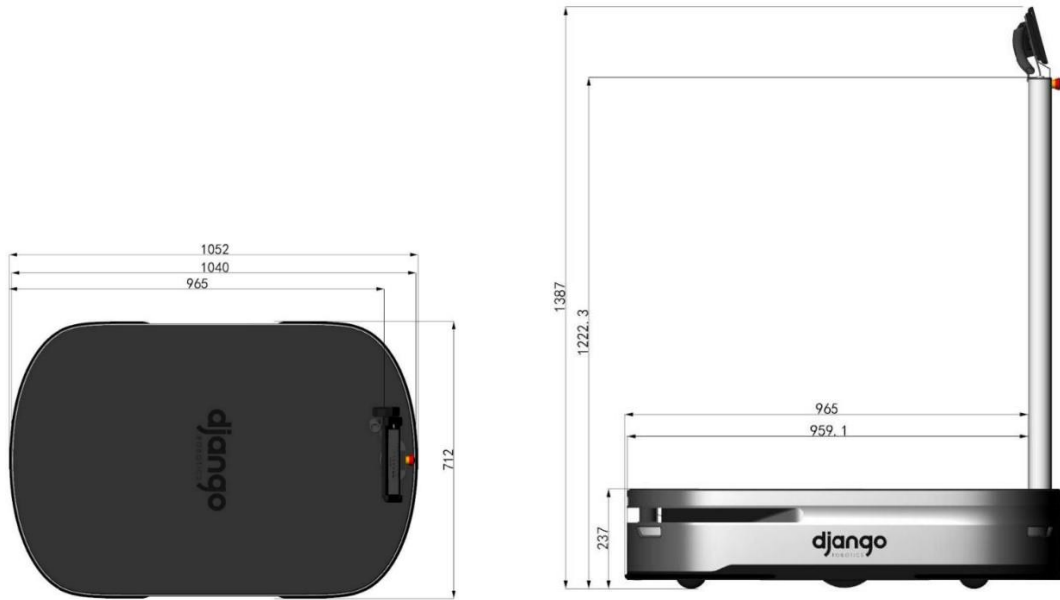
## Performance specifications

| Project                  |   |                               | Remark |
|--------------------------|---|-------------------------------|--------|
| Ground requirements      | Ground requirements                             | Concrete floor or floor paint |        |
|                          | Minimum ground flatness                         | 6mm/0.5m                      |        |
|                          | Maximum tolerance (height difference)           | 3mm                           |        |
|                          | The maximum tolerance of the slot               | 10mm                          |        |
|                          | Maximum slope                                   | 3°                            |        |
| Navigation               | Navigation path                                 | SLAM+VSLAM                    |        |
|                          | Navigation mode                                 | Free navigation               |        |
|                          | Mapping and positioning functions               | Support                       |        |
|                          | Motion planning and navigation control function | Support                       |        |
| Flexibility              | Maximum straight speed                          | 1.4m/s                        |        |
|                          | Maximum speed                                   | 1.0rad/s                      |        |
|                          | Stop position accuracy                          | Error<1cm                     |        |
| Applicable channel width | Minimum channel width                           | 1000mm                        |        |
|                          | U-turn channel width                            | 1500mm                        |        |
|                          | Double car width                                | 2600mm                        |        |

|                        |                                      |  |  |
|------------------------|--------------------------------------|--|--|
| Driving wheel          | Material                             | Rubber + metal   |  |
|                        | Size                                 | Diameter 165mm   |  |
| Casters                | Material                             | Rubber + metal   |  |
|                        | Size                                 | Diameter 75 mm   |  |
| Power supply           | Battery                              | Lithium Iron Phosphate                                   |  |
|                        | Capacity                             | 48V/20Ah   |  |
|                        | No load operation                    | 10H  |  |
|                        | Charging time                        | 2.5H   |  |
|                        | Battery Life                         | 1000 charge and discharge cycles or 3 years              |  |
|                        | Charging method                      | Automatic / Manual                                       |  |
|                        | Battery output capacity              | 20A  |  |
| Security function      | Emergency stop button                | On/Off   |  |
|                        | Laser scanner                        | None   |  |
|                        | Bumper switch key                    | Support  |  |
| Operation interface    | Touchscreen                          | Support  | 8inch tablet   |
|                        | Button                               | Touch  |  |
| Applicable environment | Applicable ambient temperature range | 0°C ~+45°C   | The robot working surface must be flat and dry clean, dry Water, don' t get exposed to rain. |
|                        | Applicable ambient humidity range    | 0%~80%   |  |
|                        | Operating environment                | For indoor use only, no excessive dust or corrosive gas. |  |

# AMR

## External Dimensions



## Names and Functions

