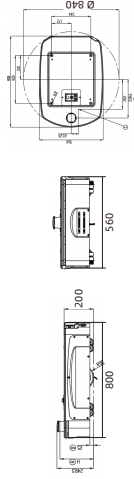
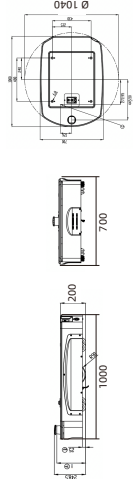


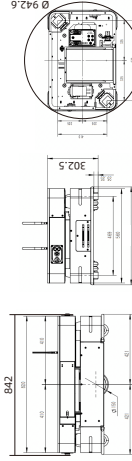
## AMB-150 (2023)



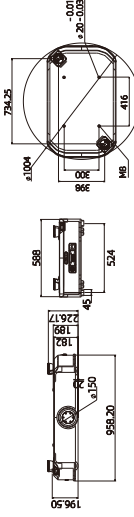
## AMB-300 (2023)



## AMB-300XS



## SBA-400EU



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# SEER Robotics Base AMR

## Universal AMR Chassis, Flexible Expansion



### Flagship Universal Platform, Flexible Extension Capabilities

The flagship series AMR chassis boasts leading positioning and navigation technology, as well as motion control performance. Equipped with mainstream interfaces such as RS485 and I/O, satisfying the development of upper mechanisms like lifting assembly, roller assembly, manipulator, traction, and pan-tilt unit, offering unlimited potential.



### Dual Lasers+3D camera, Higher Safety Factor

The dual-laser configuration at the front and rear enables 360° protection of the entire vehicle. It supports the optional 3D camera for detecting pits and obstacles to ensure safe movement. Contact bumper strips are equipped at the front and rear for immediate halt upon impact.



### Hybrid Navigation, Positioning Accuracy up to ±5 mm

The positioning accuracy can reach up to ±2 mm~±5 mm, supporting SLAM, Odometry, Inertial navigation, and the corresponding navigation solutions can be matched according to the scenario needs.



### Multiple Load Capacity Levels and High Cost-effectiveness, Premier Choice for AMR-building

The chassis series covers the load capacity range of 150 kg to 400 kg. Features a universal AMR-building platform with ultra-high cost performance and is the perfect partner for customers to build various mobile robots.

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                              |                                                                                                                               |                                                                                           |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| <div>● Standard ○ Optional - None</div> |                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                             |                                              |                                                                                           |
|                                         | Product model                                                                                                                                                                                                                                                                                                                                                                                                                            | AMB-150 (2023) / AMB-300 (2023)                                                                                                                                                                                                                                                              | AMB-300XS                                                                                                                     | SBA-400EU                                                                                 |
|                                         | Navigation type                                                                                                                                                                                                                                                                                                                                                                                                                          | Laser SLAM                                                                                                                                                                                                                                                                                   | Laser SLAM                                                                                                                    | Laser SLAM                                                                                |
|                                         | L x W x H                                                                                                                                                                                                                                                                                                                                                                                                                                | 800 x 560 x 200 mm,<br>1000 x 700 x 200 mm                                                                                                                                                                                                                                                   | 842.582 x 302.5 mm                                                                                                            | 958.20 x 588 x 182 mm                                                                     |
|                                         | Rotation diameter                                                                                                                                                                                                                                                                                                                                                                                                                        | 840 mm / 1040 mm                                                                                                                                                                                                                                                                             | 972.6 mm                                                                                                                      | 1004 mm                                                                                   |
|                                         | Basic parameters                                                                                                                                                                                                                                                                                                                                                                                                                         | Weight (with battery)<br>166 kg / 144 kg<br>Maximum load capacity<br>300 kg / 300 kg<br>Chassis ground clearance<br>25 mm<br>Navigation laser scanning height<br>228 mm (P+F)<br>215 mm (H1)                                                                                                 | 120 kg<br>300 kg<br>27 mm<br>185.43 mm                                                                                        | 100 kg<br>400 kg<br>20 mm<br>196.5 mm                                                     |
|                                         | Ambient temperature and humidity range                                                                                                                                                                                                                                                                                                                                                                                                   | TEMP: 0°C to 50°C / RH: 10% to 90%,<br>no compression, no condensation                                                                                                                                                                                                                       | TEMP: 0°C to 50°C / RH: 10% to 90%,<br>no compression, no condensation                                                        | TEMP: 0°C to 50°C / RH: 10% to 90%, no compression, no condensation                       |
|                                         | Passability (slope / step / gap)                                                                                                                                                                                                                                                                                                                                                                                                         | ≤5% / 5 mm / 10 mm ,<br>≤5% / 5 mm / 30 mm                                                                                                                                                                                                                                                   | ≤5% / 5 mm / 30 mm                                                                                                            | ≤5% / 5 mm / 30 mm                                                                        |
|                                         | Performance parameters                                                                                                                                                                                                                                                                                                                                                                                                                   | Minimum aisle width<br>700 mm / 840 mm<br>Navigation position accuracy<br>±5 mm<br>Navigation angle accuracy<br>±0.5°<br>Driving speed<br>≤1.4 m/s                                                                                                                                           | 722 mm<br>±5 mm<br>±0.5°<br>≤1.5 m/s                                                                                          | 728 mm<br>±5 mm<br>±0.5°<br>≤1.5 m/s                                                      |
|                                         | Battery parameters                                                                                                                                                                                                                                                                                                                                                                                                                       | Battery specifications<br>48 V / 35 Ah (lithium iron phosphate) ,<br>48 V / 40 Ah (lithium iron phosphate)<br>Comprehensive battery life<br>12 h<br>Charging time (10% to 80%)<br>≤1 h / ≤1.5 h<br>Charging method<br>Manual / Automatic / Fast battery swap<br>1 (P+F / H1) or 2 (P+F / H1) | 48 V / 40 Ah (ternary lithium)<br>12 h<br>≤2.5 h<br>Manual / Automatic / Fast battery swap<br>2 (SICK nanoScan3)              | 48 V / 23 Ah (lithium iron phosphate)<br>8 h<br>≤1 h<br>Manual / Automatic<br>2 (SICK HV) |
| Configurations                          | Lidar number<br>●<br>E-stop button<br>●<br>Speaker<br>●<br>Ambient lamp<br>●<br>Basic functions<br>●<br>Wi-Fi roaming<br>●<br>Automatic charging<br>●<br>Shelf recognition<br>●<br>Laser reflector navigation<br>○<br>3D obstacle avoidance<br>○<br>Precise positioning with QR code<br>- / ○<br>ISO 3691-4<br>●<br>EMC<br>●<br>UN38.3<br>●<br>Cleanliness<br>- / ISO Class 4<br>Global series<br>Yes<br>Product series<br>SEER Base AMR | ●<br>●<br>●<br>●<br>●<br>●<br>●<br>●<br>●<br>●<br>○<br>○<br>○<br>○<br>○<br>●<br>●<br>●<br>●<br>-<br>ISO Class 4<br>Yes<br>SEER Base AMR                                                                                                                                                      | ●<br>●<br>●<br>●<br>●<br>●<br>●<br>○<br>○<br>○<br>○<br>○<br>○<br>○<br>○<br>○<br>●<br>●<br>●<br>●<br>-<br>Yes<br>SEER Base AMR |                                                                                           |
| Function configurations                 |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                              |                                                                                                                               |                                                                                           |
| Certifications                          |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                              |                                                                                                                               |                                                                                           |