

Table of Parameters

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|------------------|---|---|-----------------------|-------------|-----------|-----------|
| Characteristics | 1.1 | Manufacturer | SANY | | | |
| | 1.2 | Model | SCB20A7 | SCB25A7 | SCB30A7 | |
| | 1.3 | Drive mode | Pure electric | | | |
| | 1.4 | Operation mode | Auto/stand-on manual | | | |
| | 1.5 | Rated load capacity | Q (kg) | 2000 | 2500 | 3000 |
| | 1.6 | Load center distance | c (mm) | 600 | | |
| | 1.8 | Front overhang (fork lifted/lowered) | x (mm) | 965 | | |
| | 1.9 | Wheel base | y (mm) | 1360 | | |
| | Weight | 2.1 | Dead weight | kg | 710 | 720 |
| 2.2 | | Axle load with full load (drive/load sides) | kg | 965/1745 | 1150/2070 | 1265/2455 |
| 2.3 | | Axle load with no load (drive/load sides) | kg | 570/140 | 575/145 | 575/145 |
| Wheel body | 3.1 | Tire | Polyurethane (PU) | | | |
| | 3.2 | Tire size (drive side) | Φ 250×75 | | | |
| | 3.3 | Tire size (load side) | Φ 85×80 | | | |
| | 3.4 | Tire size (auxiliary wheel) | Φ 115×50 | | | |
| | 3.5 | Number of wheels (drive/load side, x = drive wheel) | 1x+2/4 | | | |
| | 3.6 | Wheel track (drive side) | b ₁₀ (mm) | 560 | | |
| | 3.7 | Wheel track (load side) | b ₁₁ (mm) | 370/505 | | |
| Basic dimensions | 4.4 | Lifting height | h ₃ (mm) | 120 | | |
| | 4.8 | Operator platform height (deployed) | h ₇ (mm) | 190 | | |
| | | Handle height when adjusted to the highest position (Min./Max.) | h ₁₄ (mm) | 1330/1530 | | |
| | 4.9 | Operating height with tiller at lowest position (Min./Max.) | h ₁₄ (mm) | 1230/1430 | | |
| | | Height of fully lowered fork from ground | h ₁₃ (mm) | 85 | | |
| | 4.19 | Overall length (with fork) (platform folded/unfolded) | l ₁ (mm) | 1900/2310 | | |
| | 4.20 | Body length (without fork) (platform folded/unfolded) | l ₂ (mm) | 710/1120 | | |
| | 4.21 | Body width | b ₁ (mm) | 960 | | |
| | 4.22 | Fork dimensions | s/e/l (mm) | 55/180/1150 | | |
| | 4.25 | Fork spread | b ₅ (mm) | 550/685 | | |
| | 4.32 | Ground clearance at wheel base center | m ₂ (mm) | 30 | | |
| | 4.34 | Aisle width, 1000 × 1200 pallet (across forks) | Ast (mm) | 2490 | | |
| | | Aisle width, 800 × 1200 pallet (along forks) | Ast (mm) | 2360 | | |
| 4.35 | Turning radius (platform folded/deployed) | Wa (mm) | 1700/2060 | | | |
| Performance | 5.1 | Travel speed (full-load/no-load) (manual) | km/h | 9.0/10.0 | | |
| | | Travel speed (full-load/no-load) (auto) | km/h | 7.2 | | |
| | 5.2 | Lifting speed (full-load/no-load) | mm/s | 62/75 | | |
| | 5.3 | Lowering speed (full-load/no-load) | mm/s | 85/72 | | |
| | 5.8 | Max. gradeability (full-load/no-load) | - | 10/16 | | |
| | 5.10 | Service brake | Electromagnetic brake | | | |
| Motor | 6.1 | Drive motor power, S2 60 min | kW | 2.5 | | |
| | 6.2 | Lifting motor power, S3 15% | kW | 2.2 | 4 | 4 |
| | 6.3 | Battery | Lithium battery | | | |
| | 6.4 | Battery voltage/capacity | V/Ah | 48/100 | | |
| | 6.5 | Battery weight (±5%) | kg | 95 | | |
| Others | 10.7 | Sound pressure level at the operator's position | dB(A) | <75 | | |
| | | Positioning accuracy | mm | ±10 | | |
| | | Parking accuracy | mm | ±10 | | |



SCB20 / 25 / 30A7

Intelligent Forklift Truck

SANY Robot Technology Co., Ltd.

Address: Building 21, East Factory Area, SANY Industrial Park, Changsha County, Changsha City, Hunan Province, China
 Postcode: 410100 Tel: 400-810-0318

Due to ongoing technological updates, technical parameters and configuration are subject to change without notice. The machine shown in the image may include additional equipment; this catalog is for reference only, and actual products shall prevail.



SANY Robot Technology Co., Ltd.

Ready-to-operate, stand-alone intelligence



Autonomous learning



3D vision
Safety perception and intelligent decision-making

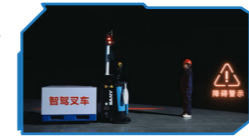


Autonomous path planning

Go live within 5 minutes
Single unit: no network or dispatch system deployment required

High-precision positioning and strong environmental adaptability
Self-developed 3D slam algorithm

SLAM
Simultaneous Localization and Mapping



Flexible obstacle avoidance



Standard pallet adaptive identification
3D LiDAR sensing

High safety

- Core components with IP67 protection
- All-round 3D protection: 3D camera + 2D LiDAR + safety touch edge



High efficiency

- 2-hour charge for 8-hour operation
- High gear ratio drive, 10% gradeability



Suitable for diverse applications

Tailored for Logistics Handling Scenarios
Game Changer for 1 Million Manned Forklift Trucks Market



Cost-effective, efficient, and labor-saving

- Cost: A7 vs Conventional AGV ↓30%
- Efficiency & Capacity: A7 vs Conventional AGV ↑30%

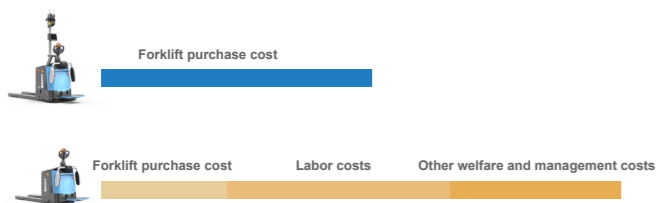
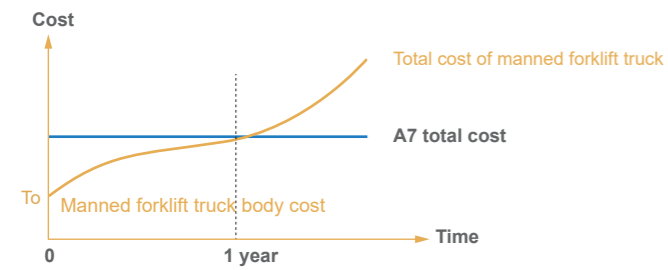
Human-robot collaboration

It integrates driverless and manned driving, featuring convenient switching and flexible operation, which can meet the needs of various operation scenarios.



Low investment, high return

Highly cost-effective material handling robot in the industry



Calculation method: Total cost = forklift body purchase + labor cost (2 shifts per day) + other welfare and management costs

Intelligent driving parameters

| | |
|----------------------------|---|
| Charging mode | Manual (standard)/automatic (optional) |
| Driving safety | Underbody obstacle avoidance radar (standard) Anti-collision strip (standard) 3D camera obstacle avoidance (standard) Fork tip anti-collision detection photoelectric (standard)/radar (optional) Sound and light alarms (standard) Emergency stop button (standard) |
| Human-machine interaction | HMI human-machine interface (standard)/Tablets (optional) |
| Pallet pose recognition | 3D LIDAR (standard) |
| Positioning and navigation | 3D LIDAR (standard) |

