

SANY

HYDRAULIC EXCAVATOR SY500H

Engine **CUMMINS QSB12**
Power **298 KW/2100 RPM**
Operating Weight **50100 KG**
Ground Pressure **84,5 KPA**



- RELIABLE FIRST-CLASS COMPONENTS
- LOWER FUEL CONSUMPTION
- SIMPLIFIED SERVICE

SPECIFICATIONS

| ENGINE | |
|---|---------------|
| Model | Cummins QSB12 |
| Displacement (L) | 11.8 |
| Engine power at rated engine speed (kW/rpm) | 298/2100 |
| Max. Torque (N · m/rpm) | 2034/1400 |

| SERVICE REFILL CAPACITIES (L) | |
|-------------------------------|------|
| Fuel tank | 680 |
| Engine coolant | 23.2 |
| Engine oil | 34 |
| Swing drive | 14 |
| Final drive (each side) | 15 |
| Hydraulic oil tank | 480 |

| HYDRAULIC SYSTEM | |
|--|---|
| Typ | Positive control system |
| Number of selectable working modes | 4 |
| Main pump | |
| Typ | Variable-capacity piston pumps |
| Maximum flow (L/min) | 2x 360 |
| Hydraulic motors | |
| Travel | 2*axial piston motor with parking brake |
| Swing | 1*axial piston motor with swing holding brake |
| Relief valve setting | |
| Implement circuits (MPa) | 34,3 |
| Travel circuit (MPa) | 34,3 |
| Swing circuit (MPa) | 26,9 |
| Heavy lift circuit (MPa) | |
| Pilot circuit (MPa) | 3,9 |
| Hydraulic cylinders | |
| Boom cylinder diameter x stroke (mm) | 165(115)x1590 |
| Arm cylinder diameter x stroke (mm) | 190(130)x1850 |
| Bucket cylinder diameter x stroke (mm) | 170(120)x1305 |











| OPERATING WEIGHT | |
|--|-------|
| Operating weight with standard bucket, fully serviced, +75 kg operator (ISO) | |
| Operating weight (kg) | 50100 |
| Ground Pressure (kPa) | 84,5 |

| DRIVE | |
|--------------------------------|---------|
| Travel Speed (Low/High) (km/h) | 5,2/3,0 |
| Maximum Travel Force (kN) | 339 |
| Gradeability | 35° |

| SWING | |
|-------------------|---|
| Swing Speed (rpm) | 8 |

| DIGGING FORCE | |
|---------------------------|-----|
| Bucket Digging Force (kN) | 200 |
| Arm Digging Force (kN) | 223 |

LIFTING CAPACITY

| A \ B | 3.0m | | 4.5m | | 6.0m | | 7.5m | | 9.0m | |
|-------|---|---|---|---|---|---|---|---|---|---|
| |  |  |  |  |  |  |  |  |  |  |
| 6.0m | | | | | | | | *11042 | *10580 | 7883 |
| 4.5m | | | *18583 | *18583 | *14250 | *14250 | *12174 | 10220 | *11076 | 7679 |
| 3.0m | | | *23517 | *23517 | *16645 | 13420 | *13492 | 9716 | *11778 | 7417 |
| 1.5m | | | *16251 | *16251 | *18602 | 12671 | *14688 | 9280 | 10439 | 7175 |
| 0 | | | *20297 | *20297 | *19717 | 12252 | 13362 | 8989 | 10260 | 7009 |
| -1.5m | *14953 | *14953 | *26577 | 18917 | *19922 | 12118 | 13230 | 8869 | 10215 | 6967 |
| -3.5m | *25277 | *25277 | *25009 | 19184 | *19165 | 12216 | *15161 | 8938 | | |
| -4.5m | *29344 | *29344 | *22034 | *22034 | *17055 | 12560 | *12834 | 9303 | | |

1. Ratings are based on ISO 10576.

2. Lift capacity of the SY500H Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity not including the use of power boost.

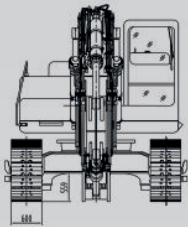
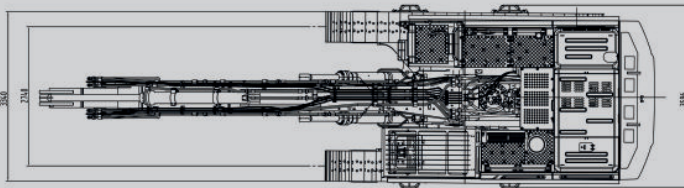
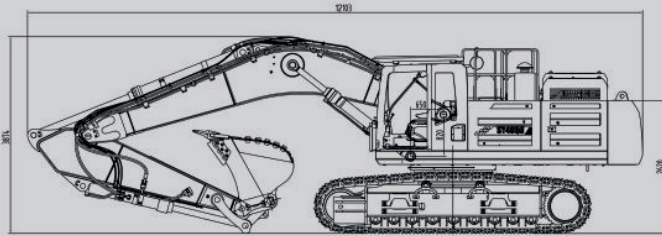
3. The load point is the centerline of the bucket pivot mounting pin on the arm.

4. *Indicates load limited by hydraulic capacity.

5. 0 m = Ground level.

Produktionshalle 1

DIMENSIONS

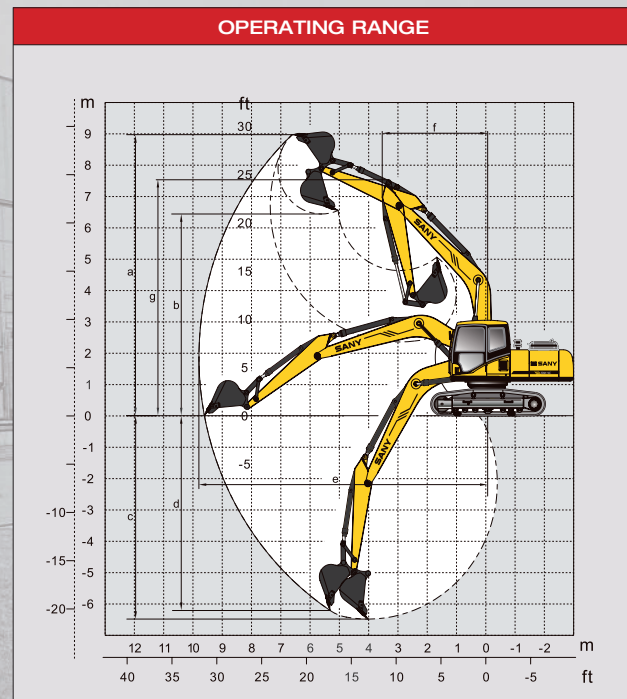


| ITEM | mm |
|-------------------------------|-------|
| A Transport Length | 12103 |
| B Transport Width | 3596 |
| C Transport Height | 3874 |
| D Upperstructure Width | 3290 |
| E Blade Height | / |
| F Standard Track Shoe Width | 600 |
| G Track Gauge | 2740 |
| H Minimum Ground Clearance | 560 |
| I Tail Swing Radius | 3765 |
| J Center distance of tumblers | 4415 |
| K Overall length of crawler | 5440 |
| Boom Length | 7000 |
| Arm Length | 3350 |

| UNDERCARRIAGE | |
|----------------------------------|-----|
| Track shoe width (mm) | 600 |
| Number of track shoes (per side) | 50 |
| Carrier roller (per side) | 2 |
| Track roller (per side) | 9 |



| ITEM | mm |
|--------------------------------|-------|
| A Max. Digging Height | 10929 |
| B Max. Dumping Height | 7647 |
| C Max. Digging Depth | 7705 |
| D Max. Vertical Digging depth | 6278 |
| E Max. Digging Reach | 12035 |
| F Min. Swing Radius | 5216 |
| G Height at Min. Swing Radius | 9103 |
| H Max. Clearance when Blade up | / |
| I Max. Depth of Blade down | / |



QUALITY CHANGES THE WORLD

Not all products are available in all markets. Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice. The illustrations do not necessarily show the standard version of the machine.

SANY

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