



ENGINE

| | |
|--|---|
| Model | Komatsu S4D102E |
| Type | 4-cycle, water-cooled, direct-injection |
| Aspiration | Turbocharged |
| No. of cylinders | 4 |
| Bore | 102 mm |
| Stroke | 120 mm |
| Piston displacement | 3.92 ltr. |
| Flywheel horsepower (SAE J1349) | 64 kW (86 HP) at 2200 RPM |
| (DIN 6270 NET) | 64 kW (87 PS) at 2200 RPM |
| Governor | All-speed, mechanical |



HYDRAULIC SYSTEMS

| | |
|--------------------------------------|---|
| Type | HydrauMind (Hydraulic Mechanical Intelligence New Design) system |
| | Closed-center system with load sensing valves and pressure compensated valves |
| Main pump: | |
| Type | Variable displacement piston pump |
| Pump for | Boom, arm, bucket, swing and travel circuits |
| Maximum flow | 1 x 226 ltr./min. |
| Sub-pump for control circuit..... | Gear pump |
| Hydraulic motors: | |
| Travel | 2 x Axial piston motor with parking brake |
| Swing..... | 1 x Axial piston motor with swing holding brake |
| Relief valve setting: | |
| Implement circuits | 325 kg/cm ² |
| Travel circuit | 325 kg/cm ² |
| Swing circuit | 275 kg/cm ² |
| Pilot circuit | 30 kg/cm ² |
| Hydraulic cylinders: | |
| Number of cylinders - bore x stroke: | |
| Boom | 2 - 105 mm x 990 mm |
| Arm | 1 - 115 mm x 1175 mm |
| Bucket | 1 - 95 mm x 885 mm |



SWING SYSTEM

| | |
|--------------------------------|---------------------------|
| Driven by | Hydraulic motor |
| Swing reduction | Planetarydouble reduction |
| Swing circle lubrication | Grease-bathed |
| Swing lock | Oil disc brake |
| Swing speed | 12.0 RPM |



STEERING

Steering/travelling controls are activated with either hand levers or foot pedals. Pushing both levers (or pedals) moves machine forward. Pulling them back makes machine go into reverse. Setting one lever (or pedal) in neutral and the other in forward enables machine to make a pivot turn. Pushing one forward while pulling the other backward makes machine counterrotate on the spot.



DRIVES & BRAKES

| | |
|-------------------------------|---|
| Steering control | Two levers |
| Drive method | Fully hydrostatic type |
| Travel motor | Axial piston motor, in-shoe design |
| Reduction system | Eccentral differential, planetary reduction |
| Max. drawbar pull | 10200 kg (100 kN) |
| Max. travel speed LO/Hi | 2.7 / 5.5 km/h |
| Service brake | Hydraulic lock type |
| Parking brake | Oil disc brake |



UNDERCARRIAGE

| | |
|------------------------------|----------------|
| Center frame | X-frame |
| Seal of track | Sealed track |
| Track adjuster | Hydraulic type |
| No. of shoes | 42 eah side |
| No. of carrier rollers | 1 each side |
| No. of track rollers | 7 each side |



COOLANT & LUBRICANT CAPACITY

| | |
|------------------------------|-----------|
| Fuel tank | 230 ltr. |
| Radiator | 18.2 ltr. |
| Engine | 16.0 ltr. |
| Final drive, each side | 2.5 ltr. |
| Swing drive | 2.5 ltr. |
| Hydraulic tank | 100 ltr. |



OPERATING WEIGHT

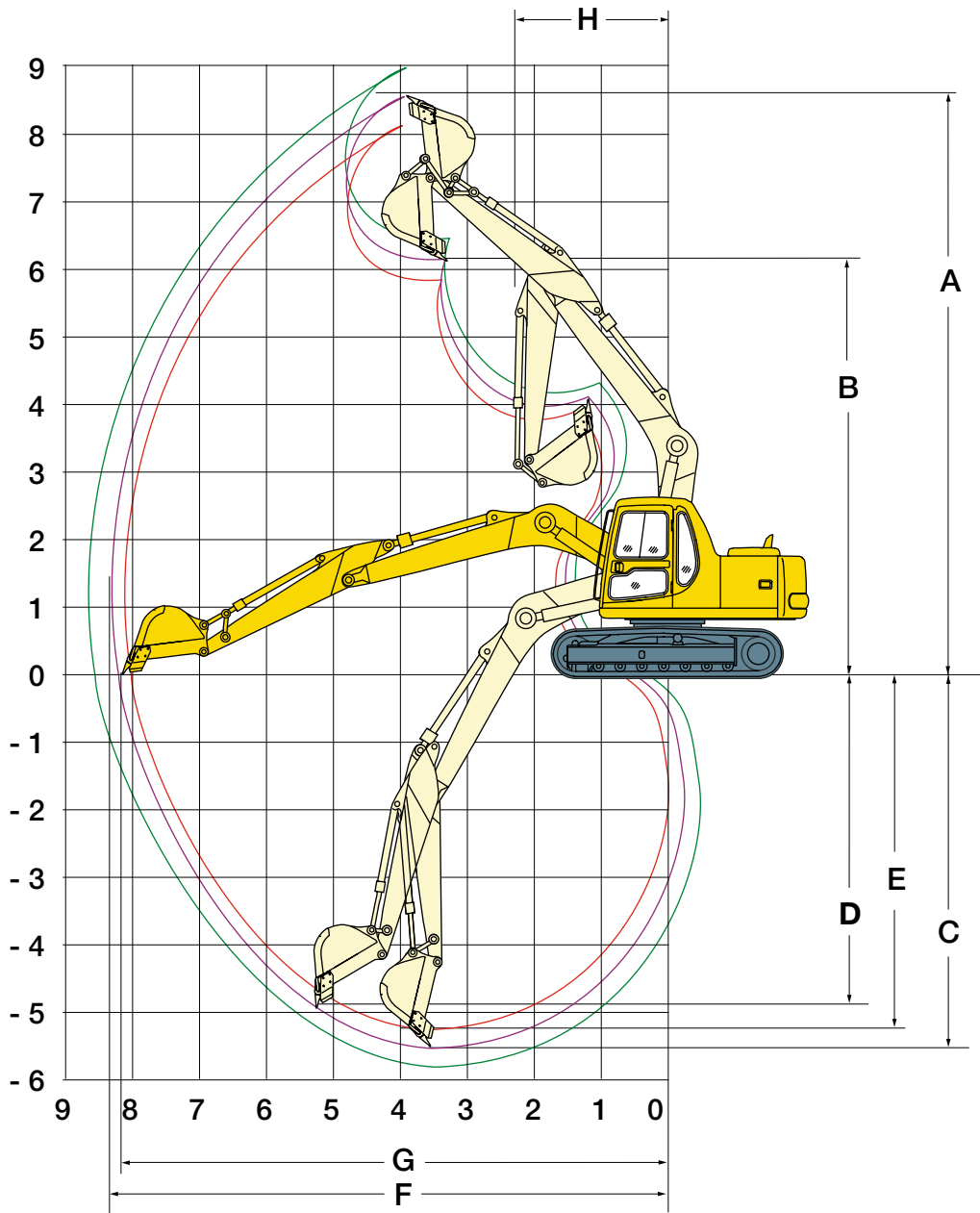
Operating weight including 4600 mm one-piece boom, 2900 mm arm HCU, 0.68 m³ bucket, operator, lubricant, coolant and full fuel tank: 13,050 kg.



CAB

Sound-insulated all-weather steel cab, safety glass windows, pull-up front window, lockable door, window wiper, electric horn, cab lamp, adjustable suspension seat with reclining devices, monitor system and gauges.

| | |
|-------------------------|--------|
| Dynamic low noise level | LWA101 |
| | LPA 77 |



| Arm length | | 2100 mm | 2500 mm | 2900 mm |
|-----------------------|---------------------------------------|---------|---------|---------|
| A | Max. digging height | 8345 mm | 8610 mm | 8970 mm |
| B | Max. dumping height | 5905 mm | 6170 mm | 6535 mm |
| C | Max. digging depth | 5115 mm | 5520 mm | 6015 mm |
| D | Max. vertical wall digging depth | 4520 mm | 4940 mm | 5360 mm |
| E | Max. digging depth of cut for 2500 mm | 4875 mm | 5315 mm | 5835 mm |
| F | Max. digging reach | 7925 mm | 8290 mm | 8785 mm |
| G | Max. digging reach at ground level | 7795 mm | 8170 mm | 8665 mm |
| H | Min. swing radius | 2290 mm | 2330 mm | 2485 mm |
| Bucket digging force* | | 8500 kg | 8500 kg | 8500 kg |
| Arm crowd force* | | 7500 kg | 6300 kg | 5250 kg |

* At power max.