**Operating Weight**
- K170 Pipelayer Package: 120,970 lb, 54870 kg

**Lift Capacity**
- K170 Pipelayer Package: 170,000 lb, 77272 kg
  *Maximum lift at tipping point (ISO 8813 1992)*

**Net Horsepower**
- 354 HP @ 1900 rpm
- 264 kW @ 1900 rpm

Photos may include optional equipment.
SPECIFICATIONS

ENGINE

Model............................................... Komatsu SAA6D140E-7**
Type ................................................. 4-cycle, water-cooled, direct injection
Aspiration .......................................... Komatsu Variable Geometry Turbocharged, air-to-air aftercooled, cooled EGR
Number of cylinders ................................................................. 6
Bore x stroke........................................ 140 mm x 165 mm 5.51" x 6.50"
Piston displacement ........................................ 15.24 ltr 930 in³
Governor ................................................... Mid-range, electronic
Horsepower
SAE J1995 ............................................... Gross 268 kW 360 HP
ISO 9249 / SAE J1349* ......................... Net 264 kW 354 HP
Rated rpm ......................................................... 1900 rpm
Fan drive type ......................................................... Hydraulic
Lubrication system
Method ................................................. Gear pump, force lubrication
Filter ......................................................... Full-flow

*Net horsepower at the maximum speed of radiator cooling fan ......................................................... 239 kW 320 HP
**EPA Tier 4 Final emissions certified

TORQFLOW TRANSMISSION

Komatsu’s 3-speed TORQFLOW transmission consists of a water-cooled, 3-element, 1-stage, 1-phase, torque converter, and a planetary gear, multiple-disc clutch transmission which is hydraulically actuated and force-lubricated for optimum heat dissipation. Equipped with gearshift lock lever and neutral safety switch.

<table>
<thead>
<tr>
<th>Travel speed</th>
<th>Forward</th>
<th>Reverse</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>3.8 km/h 2.4 mph</td>
<td>4.6 km/h 2.9 mph</td>
</tr>
<tr>
<td>2nd</td>
<td>5.6 km/h 3.5 mph</td>
<td>6.8 km/h 4.2 mph</td>
</tr>
<tr>
<td>3rd</td>
<td>11.6 km/h 7.2 mph</td>
<td>14.0 km/h 8.7 mph</td>
</tr>
</tbody>
</table>

STEERING SYSTEM

PCCS lever controls for all directional movements. Pushing the PCCS lever forward results in forward machine travel, while pulling it rearward reverses the machine. Simply tilt the PCCS lever to the left to make a left turn. Tilt it to the right for a right turn.

Hydrostatic steering system (HSS) is powered by steering planetary units and an independent hydraulic pump and motor. Counter-rotation turns are also available. Wet, multiple-disc, pedal-controlled service brakes are spring-actuated and hydraulically released. Gearshift lock lever also applies parking brakes.

UNDERCARRIAGE

Suspension ................................................. Non-suspended, Non-oscillating type
Track pitch ............................................... 228 mm 9.0"
Track type ......................................................... Sealed and lubricated
Track shoes ................................................. K170: Moderate svc, clipped 810 mm 32"
Number of shoes ................................................. 48 (each side)
Track gauge ................................................. K170: 2400 mm 94.5"
Track on ground ............................................... 3925 mm
Ground pressure (ISO 16754)......................... K170: 7.1 m² 10,990 in²

HYDRAULIC SYSTEM

Closed-center load sensing system (CLSS) designed for precise and responsive control, and for efficient simultaneous operation.

Hydraulic control unit:
All spool control valves externally mounted beside the hydraulic tank. Variable piston pump with capacity (discharge flow) of 325 L/min 88.5 U.S. gal for steering and 320 L/min 84.6 U.S. gal for implement at rated engine rpm.

Relief valve setting . . . for implement 27.5 MPa 280 kg/cm² 3,980 psi
. . . for steering 38.2 MPa 390 kg/cm² 5,500 psi

SERVICE REFILL CAPACITIES

Fuel tank ......................................................... 625 ltr 165 U.S. gal
Coolant ......................................................... 104 ltr 27.5 U.S. gal
Engine oil ......................................................... 37 ltr 9.8 U.S. gal
Dampers ......................................................... 1.5 ltr 0.4 U.S. gal
Transmission, bevel gear, steering system .......... 90 ltr 23.8 U.S. gal
Final drive (each side) ........................................... 31 ltr 8.2 U.S. gal
DEF tank ......................................................... 39 ltr 10.3 U.S. gal
Hydraulic oil capacity ........................................... 95 ltr 25.1 U.S. gal
Boom Winch Case ........................................... 15.5 ltr 4.1 U.S. gal
Hook Winch Case ........................................... 23.8 ltr 6.3 U.S. gal

COMPONENT WEIGHTS (APPROXIMATE)

K170

Counterweights ...................................... Segmented, 11 sections
Weight ................................................. Total weight: 6045 kg 13,300 lb
................................................. 9 sections @ 561 kg 1,235 lb
................................................. 2 sections @ 490 kg 1,079 lb
Boom ......................................................... 24’ Standard: 1715 kg 3,781 lb
......................................................... 28’ Optional: 1927 kg 4,249 lb
Counterweight frame ........................................ 2000 kg 4,400 lb
Counterweight yoke ........................................ 636 kg 1,400 lb

FINAL DRIVES

Double-reduction, spur and planetary final drives increase tractive effort. Segmented sprockets are bolt-on for easy in-the-field replacement.

Drawbar pull (lb x 1,000)

<table>
<thead>
<tr>
<th>Drawbar pull (lb x 1,000)</th>
<th>Metric Ton</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>10</td>
<td>0.01</td>
</tr>
<tr>
<td>20</td>
<td>0.02</td>
</tr>
<tr>
<td>30</td>
<td>0.03</td>
</tr>
<tr>
<td>40</td>
<td>0.04</td>
</tr>
<tr>
<td>50</td>
<td>0.05</td>
</tr>
<tr>
<td>60</td>
<td>0.06</td>
</tr>
<tr>
<td>70</td>
<td>0.07</td>
</tr>
<tr>
<td>80</td>
<td>0.08</td>
</tr>
<tr>
<td>90</td>
<td>0.09</td>
</tr>
<tr>
<td>100</td>
<td>0.10</td>
</tr>
</tbody>
</table>

Manual gearshift mode

CHART 1

5 10 15 20 25 10 20 30 40 50 60 70 80 90 100
0 2 4 6 8 10 12 km/h mph

Component weig hts (approximate)

K170

Counterweights ...................................... Segmented, 11 sections
Weight ................................................. Total weight: 6045 kg 13,300 lb
................................................. 9 sections @ 561 kg 1,235 lb
................................................. 2 sections @ 490 kg 1,079 lb
Boom ......................................................... 24’ Standard: 1715 kg 3,781 lb
......................................................... 28’ Optional: 1927 kg 4,249 lb
Counterweight frame ........................................ 2000 kg 4,400 lb
Counterweight yoke ........................................ 636 kg 1,400 lb
**SHIPPING**

<table>
<thead>
<tr>
<th>K170</th>
<th>Machine Width</th>
<th>Machine Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fully assembled, boom vertical</td>
<td>4115 mm 13'6&quot;</td>
<td>54870 kg 120,970 lbs</td>
</tr>
<tr>
<td>C/W sections &amp; boom removed</td>
<td>3810 mm 12'6&quot;</td>
<td>47100 kg 103,840 lbs</td>
</tr>
<tr>
<td>C/W sections, frame, yoke, boom removed</td>
<td>3657 mm 12'</td>
<td>44470 kg 98,040 lbs</td>
</tr>
<tr>
<td>C/W sections, frame, yoke, boom, LH/RH roller frame, bosses removed</td>
<td>3210 mm 10'6&quot;</td>
<td>42817 kg 93,956 lbs</td>
</tr>
</tbody>
</table>

**PIPELAYING EQUIPMENT**

Boom length .................................................. Standard: 7300 mm 24'
Optional: 8569 mm 28'

Boom line partings .................................................. 5
Hook line partings .................................................. 6
Hook speeds Raise - low speed: 5.7 - 10.5 m/min 18.7 - 34.5 ft/min
Raise - high speed: 10.6 - 19.5 m/min 34.7 - 64 ft/min
Hook free fall ............................................................ Yes

**LIFTING CAPACITY**

<table>
<thead>
<tr>
<th>Lift Capacity (ISO 8813:1992)</th>
<th>24’ Boom</th>
<th>28’ Boom</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Lift capacity maximum at tipping point @ 4’ overhang</td>
<td>77272 kg</td>
<td>77272 kg</td>
</tr>
<tr>
<td></td>
<td>170,000 lb</td>
<td>170,000 lb</td>
</tr>
<tr>
<td>B Rated load maximum @ 4’ overhang (85% of tipping)</td>
<td>65682 kg</td>
<td>65682 kg</td>
</tr>
<tr>
<td></td>
<td>144,500 lb</td>
<td>144,500 lb</td>
</tr>
<tr>
<td>C Working load maximum @ 4’ overhang (25% of rope strength)</td>
<td>38636 kg</td>
<td>40007 kg</td>
</tr>
<tr>
<td></td>
<td>85,000 lb</td>
<td>88,200 lb</td>
</tr>
<tr>
<td>Dimension</td>
<td>K170</td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>------</td>
<td></td>
</tr>
</tbody>
</table>
| A Track Gauge | 2400 mm 7' 10"
| B Width of Tractor (32" Shoes) | 3210 mm 10' 6"
| C Width of Tractor (counterweight/boom/counterweight frame removed) | 3653 mm 12'
| D Width of Tractor (counterweight/boom removed) | 3796 mm 12' 5"
| E Width of Tractor (counterweight retracted) | 4079 mm 13' 4"
| F Width of Tractor (counterweight extended) | 6255 mm 20' 6"
| G Machine Height (top of counterweight) | 2604 mm 8' 6"
| H Length of Track on Ground | 3925 mm 12' 10"
| I Operating Length | 6516 mm 21' 4"
| J Height of Machine (Cab & ROPS) | 3400 mm 11' 1"
| K Height of Machine (Cab, ROPS & Lights) | 3604 mm 11' 9"
| L Grouser Height | 80 mm 3.1"
| M Ground Clearance | 572 mm 1' 10"
| N Boom Height (at SAE 1.22 m [4 ft] overhang) 7.31 m (24 ft) boom | 8096 mm 26' 6"
| Boom Height (at SAE 1.22 m [4 ft] overhang) 8.53 m (28 ft) boom | 9310 mm 30' 6"
| O Drawbar Height | 782 mm 2' 6"
STANDARD EQUIPMENT FOR BASE K170 MACHINE*

- Air cleaner, double element with dust indicator
- Alternator, 140 ampere/24V
- Backup alarm
- Batteries, 200 Ah/2 x 12V
- Battery disconnect switch with lockout
- Color monitor, LCD
- Decelerator pedal
- Draw works with 7.3m 24' boom, hook, blocks, cables and extendable counterweight
- Engine hood
- Engine idle auto shutdown with adjustable timer
- Engine intake centrifugal precleaner
- Engine, gull-wing side covers
- Engine shutdown secondary switch
- Exhaust pipe with raincap
- Fast fuel provision
- Fenders
- Fixed roller undercarriage, wide gauge
- Front bumper with pull device
- Fuel filter and primary filter
- Grid heater starting aid in cold weather
- High mount foot rests
- Horn, warning
- Hydraulics for draw works and counterweight
- Hydraulics for towing winch (high flow)
- KOMTRAX® Level 5 Orbcomm satellite
- Komatsu Diesel Particulate Filter (KDPF)
- Variable Geometry Turbocharger (VGT)
- Komatsu Selective Catalytic Reduction (SCR)
- Locks, filler caps and covers
- Oil pressure check ports for power train
- PM service connector
- Provision for Load Moment Indicator, Powerline Detector, and Proximity Detector
- Radiator mask, double door, heavy-duty, hinged, perforated
- Radiator reserve tank
- Rear cover
- Restraint harness tie-off points
- 12V power supply (2 ports)
- Cup holder
- Emergency exit
- Cab accessories
- 12V power supply (2 ports)
- Cup holder
- Rear view mirror
- Rear view monitoring (1 camera)
- Forward view monitor (1 camera)
- AM/FM Radio w/remote AUX plug (3.5 mm)
- Lunch box holder
- Work lights, LED type
- 2 front, hood mounted
- 2 rear, fender mounted
- 2 rear, cab mounted
- Seat, air suspension, fabric, heated, low back, rotates 12.5° to right, headrest
- Seat belt, 76 mm 3"
- Seat belt indicator
- Sealed electrical connectors
- Starting motor, 11.0 kW/24V
- Steering system: Hydrostatic Steering System (HSS)
- Storage bracket for blocks during transportation
- Torque converter with 3-speed transmission
- Track roller guards, end sections
- Track shoe assembly
- Sealed and lubricated
- 810 mm 32" moderate service shoes
- Transmission with manual shift modes
- Underguards, heavy duty
- Hinged belly pans
- Water separator, fuel
- Walkway with steps and handrails
- Wide core cooling package, 6 fins per inch spacing

** Rear mounted equipment is not included in base machine standard equipment

Cab meets: ROPS standard ISO 3471:2008
FOPS Level 2 standard ISO 3449:2005

OPTIONAL EQUIPMENT

- Rear Attachment
  - HD long drawbar, 240 kg 528 lb
  - 8.5m 28' boom
  - Includes longer hook cable
  - Load Moment Indicator w/forward view camera
  - Scale and Control
  - Wireless load pin, boom angle sensor, and anti 2-block alert

ALLIED MANUFACTURER’S ATTACHMENTS (SHIPPED LOOSE)

- Guarding - Medford
  - Hinged cab rear screen 61 kg 135 lb
  - Hydraulic winch with drawbar - Allied H12E
  - 1800 kg 4,000 lb
  - Includes longer hook cable

Note: All comparisons and claims of improved performance made herein are made with respect to the prior Komatsu model unless otherwise specifically stated.