

# 6050/6050 FS

## Hydraulic Shovel



### General Data

Operating weight		
Face Shovel	528 tonnes	582 tons
Backhoe	537 tonnes	592 tons
Engine output SAE J1995		
Cummins K1500E	1880 kW	2,520 hp
Cummins QSK38	1880 kW	2,520 hp
Standard bucket capacity		
Face Shovel (heaped 2:1)	26.0 m <sup>3</sup>	34.0 yd <sup>3</sup>
Backhoe (heaped 1:1)	28.0 m <sup>3</sup>	36.6 yd <sup>3</sup>

### Features

- TriPower shovel attachment
- Independent oil cooling system
- Spacious walk-through machine house
- 5-circuit hydraulic system
- Electronic-hydraulic servo control
- Board Control System (BCS)
- Torque control in closed-loop swing circuit
- Automatic central lubrication system
- Xenon working lights

### Operating Weight

6050 FS		
Standard track pads	1400 mm	4 ft 7 in
Operating weight	527 600 kg	1,163,150 lb
Ground pressure	25.9 N/cm <sup>2</sup>	37.5 psi
• Other track pads available on request		
6050		
Standard track pads	1400 mm	4 ft 7 in
Operating weight	537 000 kg	1,183,870 lb
Ground pressure	26.3 N/cm <sup>2</sup>	38.1 psi
• Other track pads available on request		

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## Diesel Engines

Version 1 – Cummins K1500E Tier 1		
Make and model	2 × Cummins K1500E	
Total rated net power ISO 3046/1	1880 kW 1,800 min <sup>-1</sup>	2,520 hp 1,800 min <sup>-1</sup>
Total rated net power SAE J1349	1880 kW 1,800 min <sup>-1</sup>	2,520 hp 1,800 min <sup>-1</sup>
Total rated gross power SAE J1995	1880 kW 1,800 min <sup>-1</sup>	2,520 hp 1,800 min <sup>-1</sup>
Number of cylinders (each engine)	12	
Bore	159 mm	6.25 in
Stroke	159 mm	6.25 in
Displacement	37.8 L	2,300 in <sup>3</sup>
Aspiration	Turbocharged and aftercooled	
Maximum altitude without deration – above sea level	2438 m	8,000 ft
Version 2 – Cummins QSK38 Tier 2		
Make and model	2 × Cummins QSK38	
Total rated net power ISO 3046/1	1880 kW 1,800 min <sup>-1</sup>	2,520 hp 1,800 min <sup>-1</sup>
Total rated net power SAE J1349	1880 kW 1,800 min <sup>-1</sup>	2,520 hp 1,800 min <sup>-1</sup>
Total rated gross power SAE J1995	1880 kW 1,800 min <sup>-1</sup>	2,520 hp 1,800 min <sup>-1</sup>
Number of cylinders (each engine)	12	
Bore	159 mm	6.25 in
Stroke	159 mm	6.25 in
Displacement	37.8 L	2,300 in <sup>3</sup>
Aspiration	Turbocharged and aftercooled	
Maximum altitude without deration – above sea level	3200 m	10,500 ft
Emissions	U.S. EPA Flex	
Fuel tank capacity	10 700 L	2,820 gal

- Hydraulically driven radiator fan with electronically controlled fan speed
- Microprocessed engine control
- Heavy-duty air filters with automatic dust evacuation
- Two-stage fuel filter including water separator
- Additional high-capacity water separator
- Pre-lube starting system
- Eliminator with centrifuge for engine oil filtration

## Electric Motor – 6050 AC/6050 AC FS

Type	Squirrel cage induction motor
Output	1600 kW
Voltage	6.6 kV ± 10% (other on request)
Rated current I <sub>N</sub>	174 A (at 6.6 kV)
Frequency	50 Hz (60 Hz on request)
Revolutions	1,500 min <sup>-1</sup> (1,800 min <sup>-1</sup> at 60 Hz)
Starting current	350% of I <sub>N</sub> (197% of I <sub>N</sub> optional)

- Custom-made electric motor with increased gap between rotor and stator to withstand severe mining conditions
- Power limit control by Pump Management System

## Electrical System (diesel drive)

System voltage	24V
Batteries in series/parallel installation	6 × 210 Ah – 12V each 630 Ah – 24V in total
Alternators	2 × 175A each
Working spot lights	8 × high-brightness Xenon lights

- Battery isolation relays
- Emergency stop switches accessible from ground level, in engine module and in operator's cab

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## Hydraulic System with Pump Managing System

Main pumps	4 × variable flow axial piston pumps	
Maximum oil flow		
Diesel version	4 × 912 L/min	4 × 241 gal/min
AC version	4 × 933 L/min	4 × 246 gal/min
Maximum pressure, attachment	300 bar	4,350 psi
Maximum pressure, travel	340 bar	4,930 psi
Swing pumps		
Diesel version	4 × reversible swash plate pumps	
AC version	3 × reversible swash plate pumps	
Maximum oil flow		
Diesel version	4 × 351 L/min	4 × 93 gal/min
AC version	3 × 491 L/min	3 × 131 gal/min
Maximum pressure, swing pumps	350 bar	5,080 psi
Total volume of hydraulic oil		
Diesel version – approximately	7800 L	2,060 gal
AC version – approximately	7300 L	1,930 gal
Hydraulic tank capacity		
Diesel version – approximately	5500 L	1,450 gal
AC version – approximately	5000 L	1,320 gal

- Pump Managing System contains:
  - Electronic load limit control
  - Flow on demand from main pumps depending on joystick position
  - Automatic regulation of main pumps to zero flow without demand
  - Automatic rpm reduction of engine speed during working breaks
  - Reduced oil flow of main pumps at high hydraulic oil temperature or high engine temperature
- Pressure cut-off for main pumps
- Cooling of pump transmission gear oil
- Filters:
  - Full-flow high-pressure filters (100 µm) for the main pumps, installed directly behind each pump
  - High pressure filters (100 µm) for the closed swing circuit
  - Full-flow filters (10 µm) for the complete return circuit
  - Pressure filters (40 µm and 6 µm) for servo circuit
  - Pressure filters (40 µm) for the feed pumps of the closed swing circuit
  - Transmission oil filters (40 µm)

## Hydraulic Oil Cooling

Oil flow of cooling pumps		
Diesel version	4 × 488 L/min	4 × 129 gal/min
AC version	4 × 491 L/min	4 × 130 gal/min
Diameter of fans	4 × 1170 mm 4 × 46 in	

- Cooling system is fully independent of all main circuits, i.e. controlled cooling capacity is available whenever engine is running
- Gear-type cooling pumps supplying high-volume, low-pressure oil to fans and aluminum coolers
- Fan speed and flow of oil to the coolers are thermostatically controlled
- Extremely high cooling efficiency to ensure optimum oil temperature

## Swing System

Swing drives	4 compact planetary transmissions with axial piston motors
Parking brakes	Wet multiple disc brake, spring-loaded/ hydraulically released
Maximum swing speed	
Diesel version	3.8 rpm
AC version	4.0 rpm
Swing ring	Triple-race roller bearing with sealed internal gearing

- Closed-loop swing circuit with torque control
- Hydraulic braking of the swing motion by counteracting control
- All raceways of swing ring, as well as grease bath for internal gearing, supplied by automatic central lubrication system

## Retractable Service Station

Retractable service station installed underneath the engine module and easily accessible from ground. Equipped with:

- Quick couplings for:
  - Diesel fuel
  - Engine coolant – left/right
  - Pump transmission gear oil – left/right
  - Engine oil (oil pan) – left/right
  - Engine oil (additional tank – optional) – left/right
  - Hydraulic oil tank
  - Grease container
- Cat® jump-start socket
- Indicator lights for fuel tanks left/right full and grease container full

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## Operator's Cab

Operator's eye level – approximately	7.6 m	24 ft 11 in
Internal dimensions		
Length	2200 mm	7 ft 3 in
Width	1600 mm	5 ft 3 in
Height	2150 mm	7 ft 1 in

- Pneumatically cushioned and multi-adjustable comfort seat with lumbar support, seat heating, safety belt, head and armrests
- Switch in seat cushion to automatically neutralize the hydraulic controls when operator leaves the seat
- Joystick controls integrated in independently adjustable seat consoles
- Fold-away auxiliary seat with safety belt
- FOPS (rock guard; approved according to DIN ISO 3449) integrated into cab structure
- All-round safety glass, armored windshield and sliding side window
- Windshield with parallel intermittent wiper/washer
- Roller blind at windshield
- Robust instrument panel including large colored BCS screen with transfective technology
- Board Control System (BCS) electronic monitoring and data logging system for vital signs and service data of engines, hydraulic systems and lubrication systems
- Machine access via retractable boarding ladder, hydraulically operated
- Emergency ladder mounted to the A-frame

## Undercarriage

Travel speeds (2 stages)		
1st stage – maximum	1.6 km/h	0.99 mph
2nd stage – maximum	2.3 km/h	1.44 mph
Maximum tractive force	2576 kN	578,900 lbf
Gradeability of travel drives – maximum	50%	
Track pads (each side)	39	
Bottom rollers (each side)	6	
Support rollers (each side)	2 plus a skid plate in between	
Travel drives (each side)	1 planetary transmission with 2 two-stage axial piston motors	
Parking brakes	Wet multiple disc brake, spring-applied/ hydraulically released	

- Cast double-grouser combined pad links with bushings connected by hardened full floating pins
- All running surfaces of sprockets, idlers, rollers and pad links, as well as teeth contact areas of sprocket and pad links, are hardened
- Bottom rollers are connected to the automatic lubrication system
- Fully hydraulic, self-adjusting track tensioning system with membrane accumulator
- Automatic hydraulic retarder valve to prevent over-speed on downhill travel
- Acoustic travel alarm

## Automatic Lubrication System

Capacity of grease container	1000 L	264 gal
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- Dual-circuit system with hydraulically driven heavy-duty pump and electronic time relay control to adjust the pause/lube times
- Connected to the lubrication system are the swing roller bearing with internal gearing and all pivot points of attachment, bucket and cylinders
- System failures displayed by Board Control System
- Grease filters (200 µm) between service station and container, as well as directly behind grease pump

## Attachments

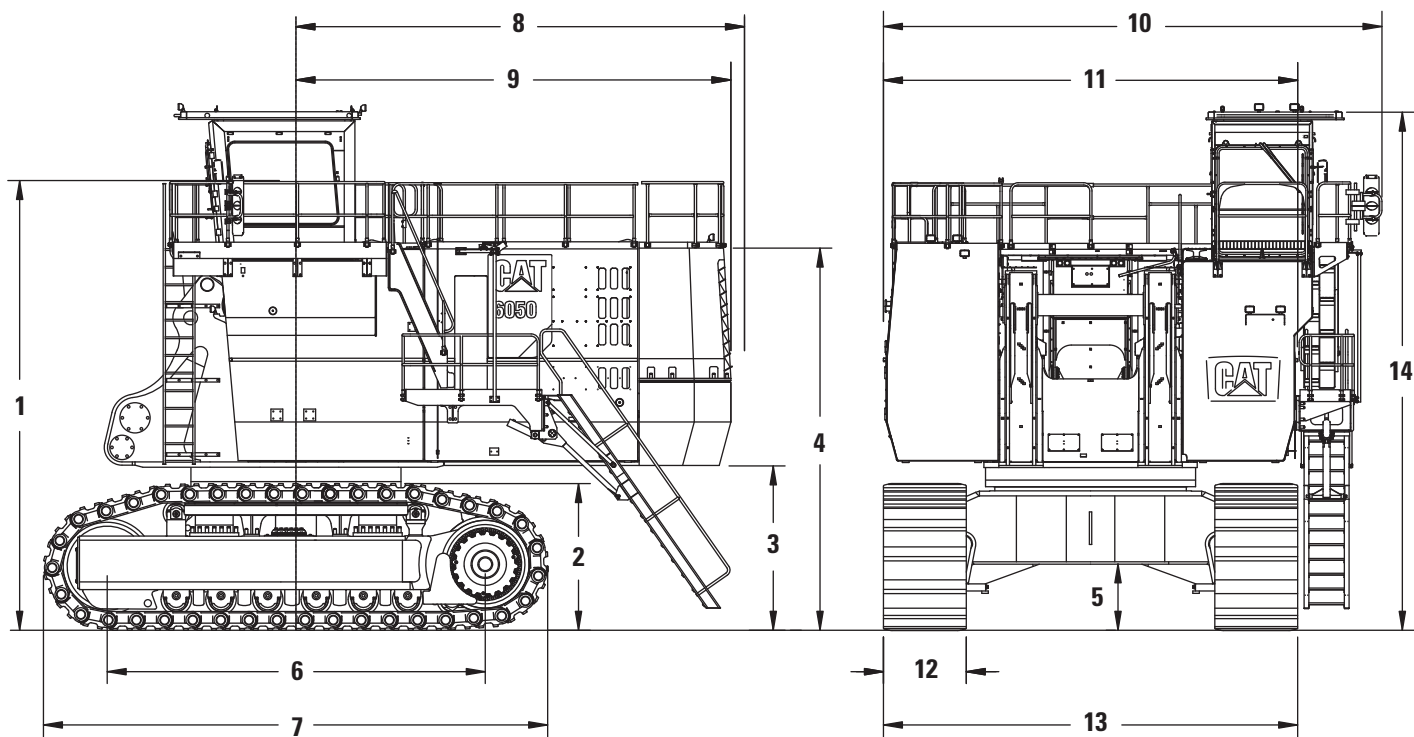
- Booms and sticks are torsion-resistant, welded box design of high tensile steel with massive steel castings at pivot areas
- Welding procedures allow for internal counter-welding (double prep weld) wherever possible
- Booms and sticks are stress-relieved after welding
- Inspection hole in booms
- Catwalks with rails at booms
- Pressure-free lowering of boom (FS and BH) and stick (FS) by means of a float valve
- Shovel attachment with unique TriPower kinematics ensuring the following main features:
  - Horizontal automatic constant-angle bucket guidance
  - Vertical automatic constant-angle bucket guidance
  - Automatic roll-back limiter to prevent material spillage
  - Kinematic assistance to hydraulic forces
  - Constant boom momentum throughout the entire lift arc
  - Crowd force assistance
- All buckets (FS and BH) are equipped with a wear package consisting of:
  - Special liner material covering main wear areas inside and outside of bucket
  - Lip shrouds between teeth
  - Wing shrouds on side walls
  - Heel shrouds at bottom edges
- Special wear packages for highly abrasive materials on request

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## Dimensions

All dimensions are approximate.

Dimensions and weights of AC machine differ slightly. Separate drawings, dimensions and weights can be provided upon request.



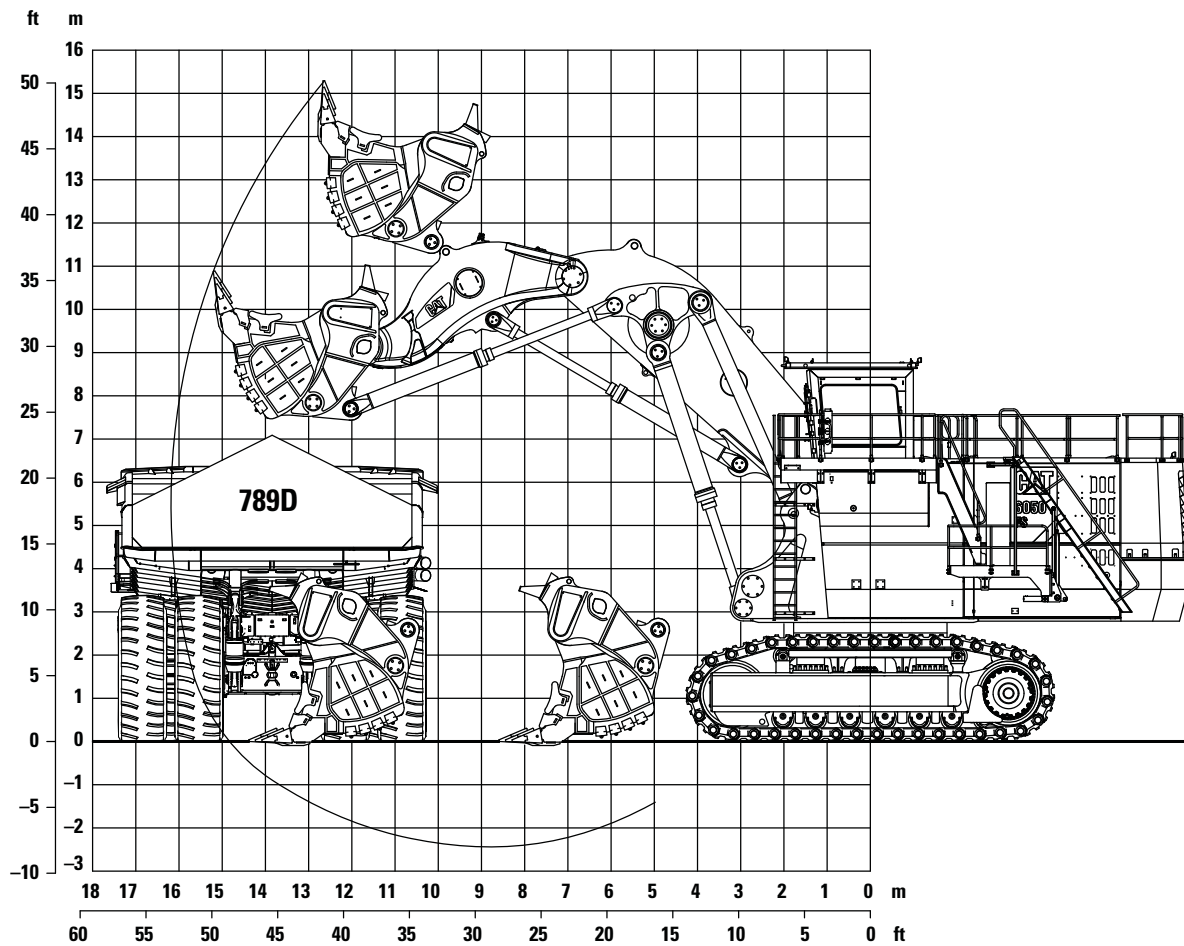
<b>1</b>	7600 mm	24 ft 11 in
<b>2</b>	2480 mm	8 ft 2 in
<b>3</b>	2780 mm	9 ft 1 in
<b>4</b>	6460 mm	21 ft 3 in
<b>5</b>	1120 mm	3 ft 8 in
<b>6</b>	6400 mm	21 ft 0 in
<b>7</b>	8540 mm	28 ft 0 in

<b>8</b>	7580 mm	24 ft 10 in
<b>9</b>	7350 mm	24 ft 1 in
<b>10</b>	8430 mm	27 ft 8 in
<b>11</b>	7000 mm	23 ft 0 in
<b>12</b>	1400 mm	4 ft 7 in
<b>13</b>	7000 mm	23 ft 0 in
<b>14</b>	8760 mm	28 ft 9 in

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## Working Range – TriPower Face Shovel Attachment (FS)

All dimensions are approximate.



<b>Boom</b>	<b>8.0 m</b>	<b>26 ft 2 in</b>	<b>Working Range</b>	
<b>Stick</b>	<b>5.1 m</b>	<b>16 ft 9 in</b>	Maximum digging height	15.3 m 50 ft 2 in
<b>Digging Forces</b>			Maximum digging reach	16.2 m 53 ft 2 in
Maximum crowd force	1930 kN	433,730 lbf	Maximum digging depth	2.4 m 7 ft 10 in
Maximum crowd force at ground level	1650 kN	370,800 lbf	Maximum dumping height	11.8 m 38 ft 9 in
Maximum breakout force	1530 kN	343,840 lbf	Crowd distance on level	5.8 m 19 ft

### Face Shovels

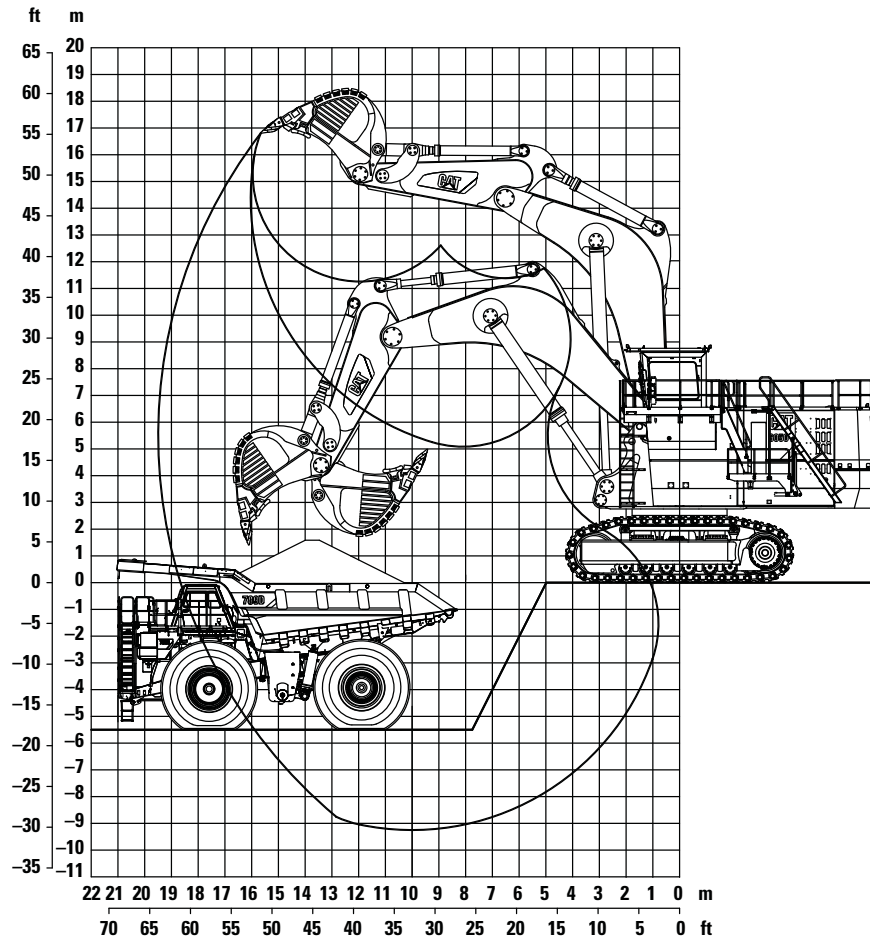
Type	Iron Ore Shovel		Heavy Rock Shovel		Heavy Rock Shovel		Standard Rock Shovel		Light Rock Shovel	
Capacity heaped 1:1	21.0 m <sup>3</sup>	27.5 yd <sup>3</sup>	24.5 m <sup>3</sup>	32.0 yd <sup>3</sup>	26.5 m <sup>3</sup>	34.7 yd <sup>3</sup>	30.1 m <sup>3</sup>	39.4 yd <sup>3</sup>	32.3 m <sup>3</sup>	42.2 yd <sup>3</sup>
<b>Capacity heaped 2:1</b>	<b>18.0 m<sup>3</sup></b>	<b>23.5 yd<sup>3</sup></b>	<b>21.0 m<sup>3</sup></b>	<b>27.5 yd<sup>3</sup></b>	<b>23.0 m<sup>3</sup></b>	<b>30.1 yd<sup>3</sup></b>	<b>26.0 m<sup>3</sup></b>	<b>34.0 yd<sup>3</sup></b>	<b>28.0 m<sup>3</sup></b>	<b>36.6 yd<sup>3</sup></b>
Total width	4800 mm	15 ft 9 in	4800 mm	15 ft 9 in	4800 mm	15 ft 9 in	4800 mm	15 ft 9 in	4800 mm	15 ft 9 in
Inner width	4300 mm	14 ft 1 in	4300 mm	14 ft 1 in	4300 mm	14 ft 1 in	4300 mm	14 ft 1 in	4300 mm	14 ft 1 in
Opening width	2250 mm	8 ft 2 in	2500 mm	8 ft 2 in	2500 mm	8 ft 2 in	2500 mm	8 ft 2 in	2500 mm	8 ft 2 in
Number of teeth	6		6		6		6		6	
Weight including wear package	40 400 kg	89,070 lb	42 400 kg	93,480 lb	41 800 kg	92,150 lb	42 900 kg	94,580 lb	43 100 kg	95,020 lb
Maximum material density (loose)	2.6 t/m <sup>3</sup>	4,380 lb/yd <sup>3</sup>	2.2 t/m <sup>3</sup>	3,710 lb/yd <sup>3</sup>	2.0 t/m <sup>3</sup>	3,370 lb/yd <sup>3</sup>	1.8 t/m <sup>3</sup>	3,030 lb/yd <sup>3</sup>	1.65 t/m <sup>3</sup>	2,780 lb/yd <sup>3</sup>



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## Working Range – Backhoe Attachment (BH)

All dimensions are approximate.



<b>Boom</b>	<b>10.5 m</b>	<b>34 ft 5 in</b>
<b>Stick</b>	<b>5.5 m</b>	<b>18 ft 1 in</b>
<b>Digging Forces</b>		
Maximum tearout force	1100 kN	247,200 lbf
Maximum breakout force	1210 kN	271,920 lbf

<b>Working Range</b>		
Maximum digging depth	9.2 m	30 ft 2 in
Maximum digging reach	19.5 m	64 ft 0 in
Maximum digging height	16.8 m	55 ft 1 in

## Backhoes

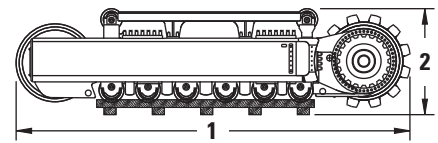
Type	Heavy Rock Bucket		Standard Rock Bucket	
Capacity heaped 1:1	25.0 m <sup>3</sup>	32.7 yd <sup>3</sup>	28.0 m <sup>3</sup>	36.6 yd <sup>3</sup>
Capacity heaped 2:1	22.2 m <sup>3</sup>	29.0 yd <sup>3</sup>	25.0 m <sup>3</sup>	32.7 yd <sup>3</sup>
Capacity struck	19.5 m <sup>3</sup>	25.5 yd <sup>3</sup>	21.7 m <sup>3</sup>	28.4 yd <sup>3</sup>
Total width	4580 mm	15 ft 0 in	4440 mm	14 ft 7 in
Inner width	4035 mm	13 ft 3 in	4040 mm	13 ft 3 in
Number of teeth	6		6	
Weight including wear package	30 100 kg	66,360 lb	32 300 kg	72,210 lb
Maximum material density (loose)	2.0 t/m <sup>3</sup>	3,370 lb/yd <sup>3</sup>	1.8 t/m <sup>3</sup>	3,030 lb/yd <sup>3</sup>

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## General Packing List

### 2 Crawler side frames (values per each side frame)

Gross weight	44 600 kg (98,330 lb)
<b>1</b> Length	8400 mm (27 ft 7 in)
Width	2200 mm (7 ft 3 in)
<b>2</b> Height	2100 mm (6 ft 11 in)



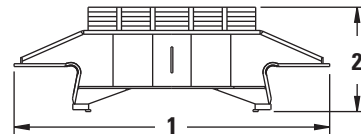
### 6 Tracks consisting of 13 pad links (values per each track)

Gross weight	10 700 kg (23,590 lb)
<b>1</b> Length	6400 mm (21 ft 0 in)
Width	1400 mm (4 ft 7 in)
<b>2</b> Height	330 mm (1 ft 1 in)



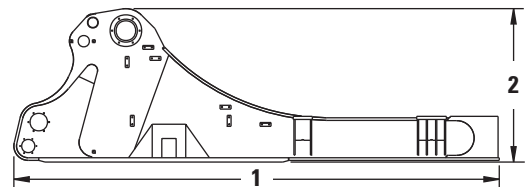
### Undercarriage center frame with swing roller bearing

Gross weight	42 300 kg (93,250 lb)
<b>1</b> Length	6750 mm (22 ft 2 in)
Width	3800 mm (12 ft 6 in)
<b>2</b> Height	2250 mm (7 ft 5 in)



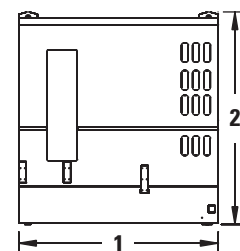
### Superstructure center frame

Gross weight	62 000 kg (136,690 lb)
<b>1</b> Length	10 200 mm (33 ft 6 in)
Width	3600 mm (11 ft 10 in)
<b>2</b> Height	3450 mm (11 ft 4 in)



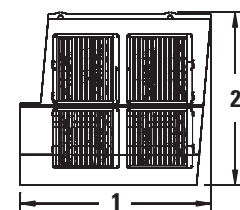
### Engine module with diesel engines

Gross weight	42 000 kg (92,590 lb)
<b>1</b> Length	4000 mm (13 ft 1 in)
Width	7000 mm (23 ft 0 in)
<b>2</b> Height	3820 mm (12 ft 6 in)



### Oil cooler module

Gross weight	9750 kg (21,490 lb)
<b>1</b> Length	4000 mm (13 ft 1 in)
Width	2000 mm (6 ft 7 in)
<b>2</b> Height	3750 mm (12 ft 4 in)



Above values are approximate. Details may vary depending on scope of supply and destination. Exact data subject to selected machine configuration and final packing list.

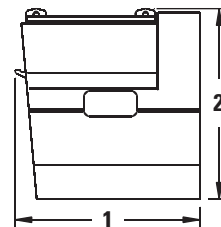


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## General Packing List

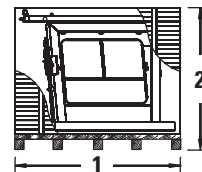
### Cab pedestal module

Gross weight	6800 kg (14,990 lb)
<b>1</b> Length	3720 mm (12 ft 2 in)
Width	2500 mm (8 ft 2 in)
<b>2</b> Height	3700 mm (12 ft 2 in)

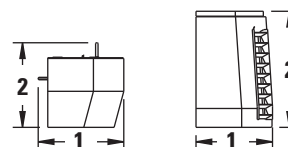


### Crate with cabin and FOPS

Gross weight	3960 kg (8,730 lb)
<b>1</b> Length	3500 mm (11 ft 6 in)
Width	2600 mm (8 ft 6 in)
<b>2</b> Height	2870 mm (9 ft 5 in)

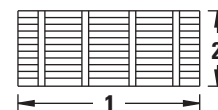


Counterweights	Lower part	Upper part
Gross weight	36 000 kg (79,370 lb)	19 300 kg (42,550 lb)
<b>1</b> Length	1580 mm (5 ft 2 in)	1550 mm (5 ft 1 in)
Width	7000 mm (23 ft 0 in)	7000 mm (23 ft 0 in)
<b>2</b> Height	1750 mm (5 ft 9 in)	2360 mm (7 ft 9 in)



### Crates

Content	<b>1</b> Length	Width	<b>2</b> Height	Gross Weight
Two radiators with fan	2700 mm (8 ft 10 in)	1950 mm (6 ft 5 in)	1320 mm (4 ft 4 in)	2460 kg (5,420 lb)
Four swing gears	1550 mm (5 ft 1 in)	1350 mm (4 ft 5 in)	1980 mm (6 ft 6 in)	4970 kg (10,960 lb)
Swing ring cover	2200 mm (7 ft 3 in)	1300 mm (4 ft 3 in)	1030 mm (3 ft 5 in)	400 kg (880 lb)
Swing ring bolts, tools, accessories	3300 mm (10 ft 10 in)	1750 mm (5 ft 9 in)	1260 mm (4 ft 2 in)	2900 kg (6,390 lb)
Air filters, mufflers and covers	3400 mm (11 ft 2 in)	1700 mm (5 ft 7 in)	1800 mm (5 ft 11 in)	1620 kg (3,570 lb)
Grease container with pump	1630 mm (5 ft 4 in)	1570 mm (5 ft 2 in)	2160 mm (7 ft 1 in)	1100 kg (2,430 lb)
Barrels (hydraulic oil; grease)	2500 mm (8 ft 2 in)	1300 mm (4 ft 3 in)	1270 mm (4 ft 2 in)	1700 kg (3,750 lb)
Barrels (hydraulic oil)	2500 mm (8 ft 2 in)	1300 mm (4 ft 3 in)	2700 mm (8 ft 10 in)	1755 kg (3,870 lb)
Retractable ladder	5600 mm (18 ft 4 in)	1000 mm (3 ft 3 in)	2000 mm (6 ft 7 in)	740 kg (1,630 lb)



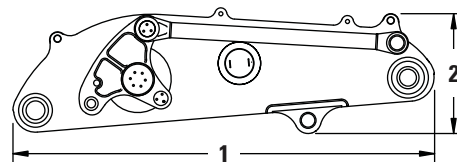
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## TriPower Shovel Attachment

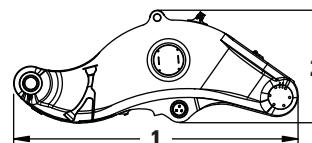
### Boom with TriPower linkages and rods

Gross weight	46 800 kg (103,180 lb)
<b>1</b> Length	9030 mm (29 ft 8 in)
Width	3100 mm (10 ft 2 in)
<b>2</b> Height	2840 mm (9 ft 4 in)



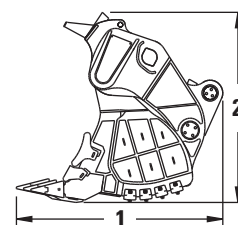
### Stick

Gross weight	17 300 kg (38,140 lb)
<b>1</b> Length	6000 mm (19 ft 8 in)
Width	2350 mm (7 ft 9 in)
<b>2</b> Height	2300 mm (7 ft 7 in)



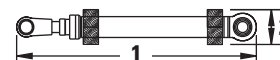
### Standard face shovel including pin for stick

Gross weight	43 900 kg (96,780 lb)
<b>1</b> Length	4600 mm (15 ft 1 in)
Width	4800 mm (15 ft 9 in)
<b>2</b> Height	3950 mm (13 ft 0 in)



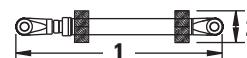
### Bundle with 2 boom cylinders

Gross weight	7100 kg (15,650 lb)
<b>1</b> Length	5100 mm (16 ft 9 in)
Width	1200 mm (3 ft 11 in)
<b>2</b> Height	700 mm (2 ft 4 in)



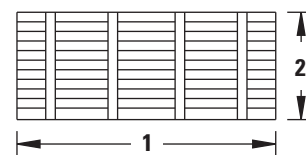
### 2 Bundles with 2 stick cylinders and 2 bucket cylinders (values per each bundle)

Gross weight	5200 kg (11,460 lb)
<b>1</b> Length	4400 mm (14 ft 5 in)
Width	1200 mm (3 ft 11 in)
<b>2</b> Height	700 mm (2 ft 4 in)



### Crates with main valve block catwalks, railings and other parts

<b>1</b> Length	Width	<b>2</b> Height	Gross Weight
4270 mm (14 ft 0 in)	1900 mm (6 ft 3 in)	1700 mm (5 ft 7 in)	3400 kg (7,500 lb)
4950 mm (16 ft 3 in)	2300 mm (7 ft 7 in)	2140 mm (7 ft 0 in)	5700 kg (12,570 lb)
2850 mm (9 ft 4 in)	1300 mm (4 ft 3 in)	1020 mm (3 ft 4 in)	870 kg (1,920 lb)
5000 mm (16 ft 5 in)	1950 mm (6 ft 5 in)	1850 mm (6 ft 1 in)	3420 kg (7,540 lb)



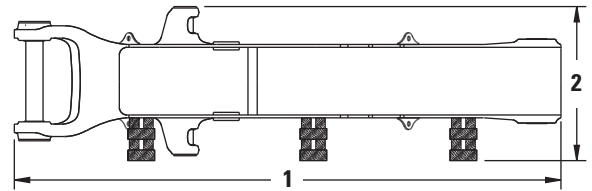
Above values are approximate. Details may vary depending on scope of supply and destination. Exact data subject to selected machine configuration and final packing list.

# 6050/6050 FS Hydraulic Shovel Specifications

## Backhoe Attachment

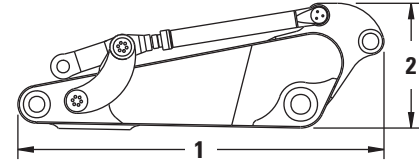
### Monoboam

Gross weight	46 000 kg (101,410 lb)
<b>1</b> Length	11 500 mm (37 ft 9 in)
Width	5000 mm (16 ft 5 in)
<b>2</b> Height	3200 mm (10 ft 6 in)



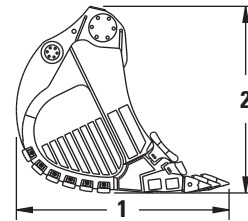
### Stick with linkage and bucket cylinder

Gross weight	28 000 kg (61,730 lb)
<b>1</b> Length	7700 mm (25 ft 3 in)
Width	2300 mm (7 ft 7 in)
<b>2</b> Height	2750 mm (9 ft 0 in)



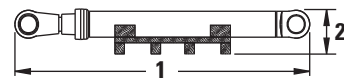
### Standard backhoe bucket including pins for stick and linkage

Gross weight	34 500 kg (76,060 lb)
<b>1</b> Length	4500 mm (14 ft 9 in)
Width	4440 mm (14 ft 7 in)
<b>2</b> Height	3750 mm (12 ft 4 in)



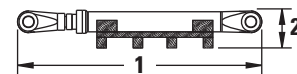
### 2 pallets with boom cylinders (values per each pallet)

Gross weight	6900 kg (15,210 lb)
<b>1</b> Length	6250 mm (20 ft 6 in)
Width	800 mm (2 ft 7 in)
<b>2</b> Height	900 mm (2 ft 11 in)



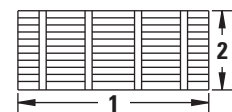
### 2 pallets with stick cylinders (values per each pallet)

Gross weight	4050 kg (8,930 lb)
<b>1</b> Length	5200 mm (17 ft 1 in)
Width	800 mm (2 ft 7 in)
<b>2</b> Height	860 mm (2 ft 10 in)



### Crates with main valve block, catwalks, railings and other parts

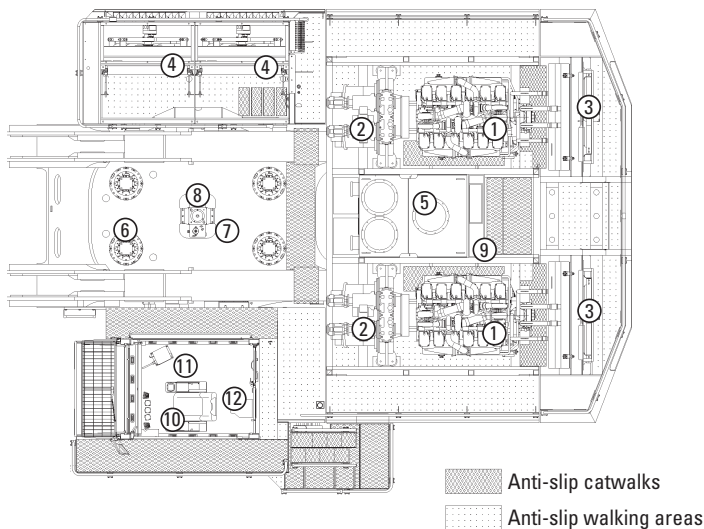
<b>1</b> Length	Width	<b>2</b> Height	Gross Weight
3850 mm (12 ft 8 in)	2150 mm (7 ft 1 in)	1550 mm (5 ft 1 in)	5000 kg (11,020 lb)
4500 mm (14 ft 9 in)	1900 mm (6 ft 3 in)	1750 mm (5 ft 9 in)	3400 kg (7,500 lb)
4960 mm (16 ft 3 in)	1950 mm (6 ft 5 in)	1840 mm (6 ft 0 in)	3400 kg (7,500 lb)



Above values are approximate. Details may vary depending on scope of supply and destination. Exact data subject to selected machine configuration and final packing list.

# 6050/6050 FS Hydraulic Shovel

## Component Accessibility on Superstructure



## Optional Equipment

Optional equipment may vary. Consult your Cat dealer for details.

### GENERAL

- Export crating
- Finishing as per end user's corporate colors

### SUPERSTRUCTURE

- Hydraulic service crane on superstructure with auxiliary engine
- Mesabi radiators instead of standard radiators
- Oil change interval extension for engine oil up to 1,000 hours
- Folding access stairway, stairway angle approximately 45°
- Round container with a standard 200 L (53 gal) grease barrel (instead of 1000 L (264 gal) grease container)

- Lubricated pinion for greasing of internal gearing of swing ring
- Various cold-weather packages

### CAB

- Various heating and air-conditioning systems
- Roller blinds at all windows
- Additional instrumentation

### UNDERCARRIAGE

- Track pad width 1600 mm (5 ft 3 in) or 1800 mm (5 ft 11 in)
- Cover plate under carbody (belly plate)

### ATTACHMENT

- Guards for shovel cylinders of FS-attachment
- Xenon lighting on boom
- Special wear packages

Additional optional equipment available on request.

Materials and specifications are subject to change without notice.

Featured machines in photos may include additional equipment.

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at [www.cat.com](http://www.cat.com).

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Product ID: 6050/6050 FS

AEHQ6525-02  
Replaces AEHQ6525-01

August 2013

