



# Cat<sup>®</sup> 6040

## Hydraulic Shovel

### Specifications

#### General Data

##### Operating weight

Face Shovel	397 tonnes	438 tons
Backhoe	397 tonnes	438 tons

##### Engine Output SAE J1995

Cat <sup>®</sup> C32	1 516 kW	2,032 HP
Cummins <sup>®</sup> KTA38C	1 492 kW	2,000 HP

##### Standard Bucket Capacity

Face Shovel (SAE 2:1)	22.0 m <sup>3</sup>	28.8 yd <sup>3</sup>
Backhoe (SAE 1:1)	22.0 m <sup>3</sup>	28.8 yd <sup>3</sup>

#### Features

- *TriPower* shovel attachment
- Independent oil cooling system
- Spacious walk-through machine house
- 5-circuit hydraulic system
- New on-board electronics system: Control and Monitoring Platform (CAMP)
- New Board Control System (BCS III)
- Torque control in closed-loop swing circuit
- Automatic central lubrication system
- Xenon working lights

#### Operating Weight

##### Shovel

Standard track pads	1 200 mm (3 ft 11 in)
Operating weight	397 400 kg (876,110 lb)
Ground pressure	23.8 N/cm <sup>2</sup> (34.4 psi)

Additional track pads available on request

##### Backhoe

Standard track pads	1 200 mm (3 ft 11 in)
Operating weight	397 000 kg (875,230 lb)
Ground pressure	23.8 N/cm <sup>2</sup> (34.4 psi)

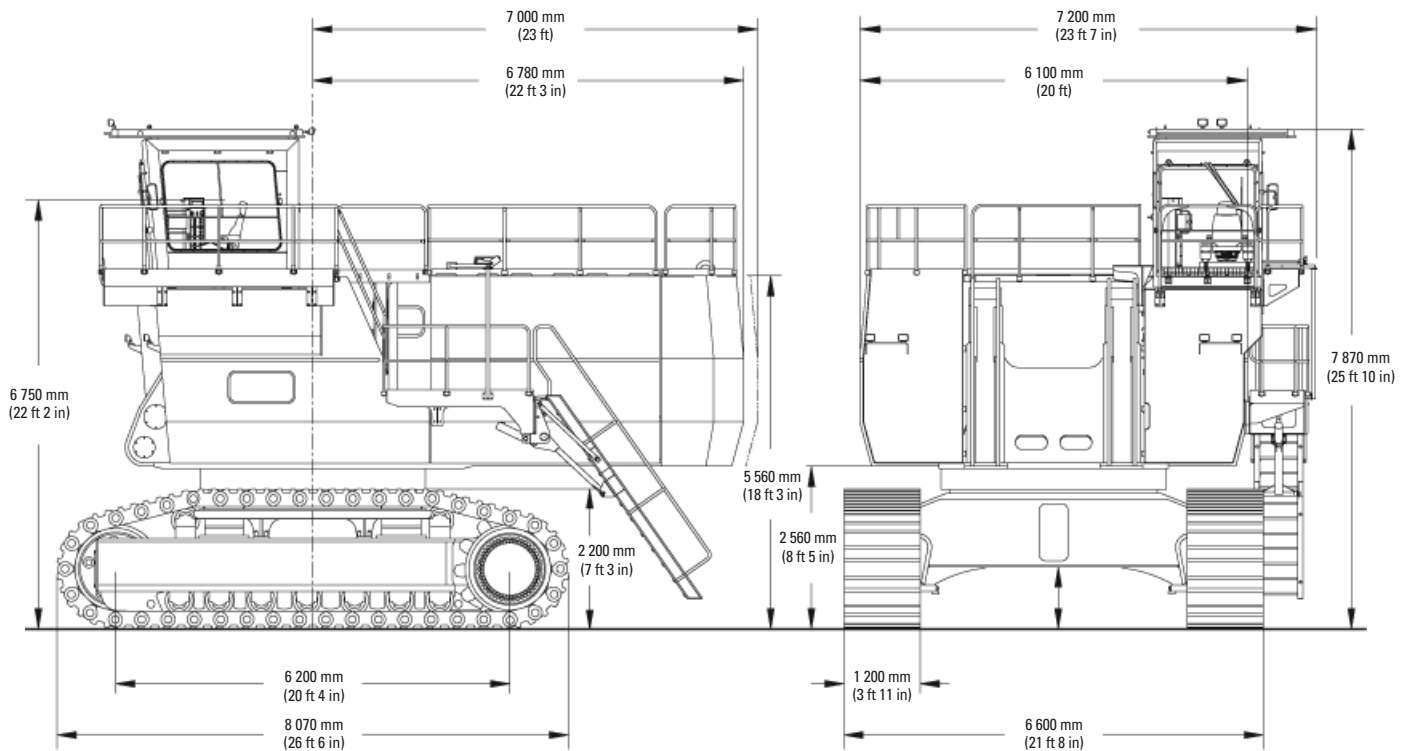
Additional track pads available on request

#### Electrical System (diesel drive)

System voltage	24 V
Batteries	6 x 210 Ah - 12 V each
in series / parallel installation	630 Ah - 24 V in total
Working spot lights	8 x high-brightness Xenon lights

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

# Hydraulic Shovel—6040



## Hydraulic Oil Cooling

Oil flow of cooling pumps

Diesel Version	2 x 799 l/min (2 x 211 US gal/min)
Electric Version	4 x 379 l/min (4 x 100 US gal/min)

Diameter of fans 2 x 1 524 mm (2 x 60 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 aluminum coolers
- Variable axial piston pumps supplying low-volume, high-pressure oil to fans
- Fan speed is thermostatically controlled
- Extremely high cooling efficiency to ensure optimum oil temperature

## Electric Motor (optional)

Type	Squirrel cage induction motor
Output	1 400 kW
Voltage (other on request)	6.6 kV +/- 10%
Rated Current $I_N$	156 A
Frequency	50 Hz (60 Hz on request)
Revolutions (1,800 min <sup>-1</sup> at 60 Hz)	1,500 min <sup>-1</sup>
Starting current	350% of $I_N$ (260% of $I_N$ Optional)

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

## Diesel Engines

### Engine Features

Fuel Tank Capacity 7 800 l (2,060 US gal)

- Hydraulically driven radiator fan with electronically controlled fan speed
- Microprocessed engine management
- Automatic rev. reduction
- Heavy-duty air filters
- Two-stage fuel filter incl. water separator
- Additional high-capacity water separator
- Pre-lube starting system (Cummins engines only)

### Version 1 - Cat® C32 Tier 2

Make and model	2 x Cat C32
Total rated net power ISO 3046/1	1 516 kW (2,032 HP) 1,750 min <sup>-1</sup>
Total rated net power SAE J1349	1,516 kW (2,032 HP) 1,750 min <sup>-1</sup>
Total rated gross power SAE J1995	1,516 kW (2,032 HP) 1,750 min <sup>-1</sup>
No. of cylinders (each engine)	12
Bore	145 mm (5.71 in)
Stroke	162 mm (6.38 in)
Displacement	32.1 l (1,959 in <sup>3</sup> )
Aspiration	Turbocharged and air-to-air aftercooled
Max. altitude without deration	at 10° C 2 500 m (8,200 ft) a.s.l.
Emission certification	US EPA Tier 4i
Alternators	2 x 150 A

# Hydraulic Shovel—6040

## Diesel Engines (continued)

### Version 2 - Cummins® KTA38C Non-Cert

Make and model	2 x Cummins KTA38C-1200
Total rated net power ISO 3046/1	1 492 kW (2,000 HP) 1,800 min <sup>-1</sup>
Total rated net power SAE J1349	1 492 kW (2,000 HP) 1,800 min <sup>-1</sup>
Total rated gross power SAE J1995	1 492 kW (2,000 HP) 1,800 min <sup>-1</sup>
No. 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
Max. altitude without deration	3 600 m (11,800 ft) a.s.l.
Alternators	2 x 175 A

## Undercarriage

Travel speed (2 stages)	1 <sup>st</sup> stage	Max. 1.5 km/h (0.93 mph)
	2 <sup>nd</sup> stage	Max. 2.5 km/h (1.55 mph)
Max. tractive force	2 097 kN (214 t = 471,260 lb)	
Gradability of travel drives	Max. 57%	
Track pads (each side)	42	
Bottom rollers (each side)	7	
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 brake	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 track links, as well as teeth contact areas of sprocket and pad links, are hardened
- Fully hydraulic self-adjusting track tensioning system with membrane accumulator
- Automatic hydraulic retarder valve to prevent over-speed on downhill travel
- Acoustic travel alarm

## 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

## Hydraulic System with Pump Managing System

Main pumps	
Diesel version	4 x variable swash plate pumps
Electric version	4 x variable flow axial piston pumps
Max. oil flow	
Cat version	4 x 724 l/min (4 x 191 US gal/min)
Cummins version	4 x 745 l/min (4 x 197 US gal/min)
Electric version	4 x 746 l/min (4 x 197 US gal/min)
Max. pressure, attachment	32 MPa = 330 bar (4,640 psi)
Max. pressure, travel	37 MPa = 370 bar (5,365 psi)
Swing pumps	
Diesel version	4 x reversible swash plate pump
Electric version	3 x reversible swash plate pump
Max. oil flow	
Cat version	4 x 321 l/min (4 x 85 US gal/min)
Cummins version	4 x 331 l/min (4 x 87 US gal/min)
Electric version	3 x 491 l/min (3 x 130 US gal/min)
Max. pressure, swing circuit	33 MPa = 330 bar (4,785 psi)
Total volume of hydraulic oil	
Diesel version	Approx. 5 800 l (1,532 US gal)
Electric version	Approx. 6 400 l (1,585 US gal)
Hydraulic tank capacity	
Diesel version	Approx. 3 400 l (898 US gal)
Electric version	Approx. 4 000 l (1,057 US 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 at 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
- Full-flow filters (10 µm) for the complete return circuit
- Full-flow filters (10 µm) for the cooling return circuit
- Pressure filters (6 µm) for servo circuit
- Pressure filters (40 µm) for the feed pumps of the closed swing circuit
- Transmission oil filters (40 µm)

# Hydraulic Shovel—6040

## Operator's Cab

Operator's eye level	Approx. 6.75 m (22 ft 2 in)
Internal dimensions of cab	Length: 2 200 mm (7 ft 3 in) Width: 1 600 mm (5 ft 3 in) Height: 2 150 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 acc. 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 incl. large colored BCS screen with transfective technology
- New Board Control System (BCS III); electronic monitoring, data logging and diagnostic system for vital signs and service data of engines, hydraulic system and lubrication system, featuring:
  - Robust instrument panel including large (12 in) colored touch screen for intuitive handling
  - On-screen PDF documentation (e.g. operating instructions, technical handbook, spare parts catalog, electric circuit diagram)
  - On-screen troubleshooting assistance
  - Graphic charts of logged data
  - Fault memory with storage of related conditions
  - USB, Lan (TCP/IP) and CAN BUS interfaces for data export
- Machine access via retractable boarding ladder, hydraulically operated
- Emergency exit harness kit

## Attachments

- Boom and sticks are torsion-resistant, welded box design of high-tensile steel with massive steel casting at pivot areas
- Welding procedures allow for internal counter-welding (double prep weld) wherever possible
- Boom and sticks are stress-relieved after welding
- Inspection hole in monoboam of BH-attachment
- Catwalks with rails at boom (FS and BH)
- 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

## Attachments (continued)

- Kinematic assistance to hydraulic forces
- Constant boom momentum throughout the whole lift arc
- Crowd force assistance
- All buckets (FS and BH) are equipped with a universal wear package suitable for all standard applications, which consists 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

## Swing System

Swing Drives	3 compact planetary transmissions with axial piston motors	
Parking Brake	Wet multiple disc brake, spring-loaded / hydraulically released	
Max. swing speed	Cat Version	4.7 rpm
	Cummins Version	4.8 rpm
	Electric Version	5.1 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 race ways of swing ring, as well as grease bath for internal gearing, supplied by automatic central lubrication system

## Automatic Lubrication System

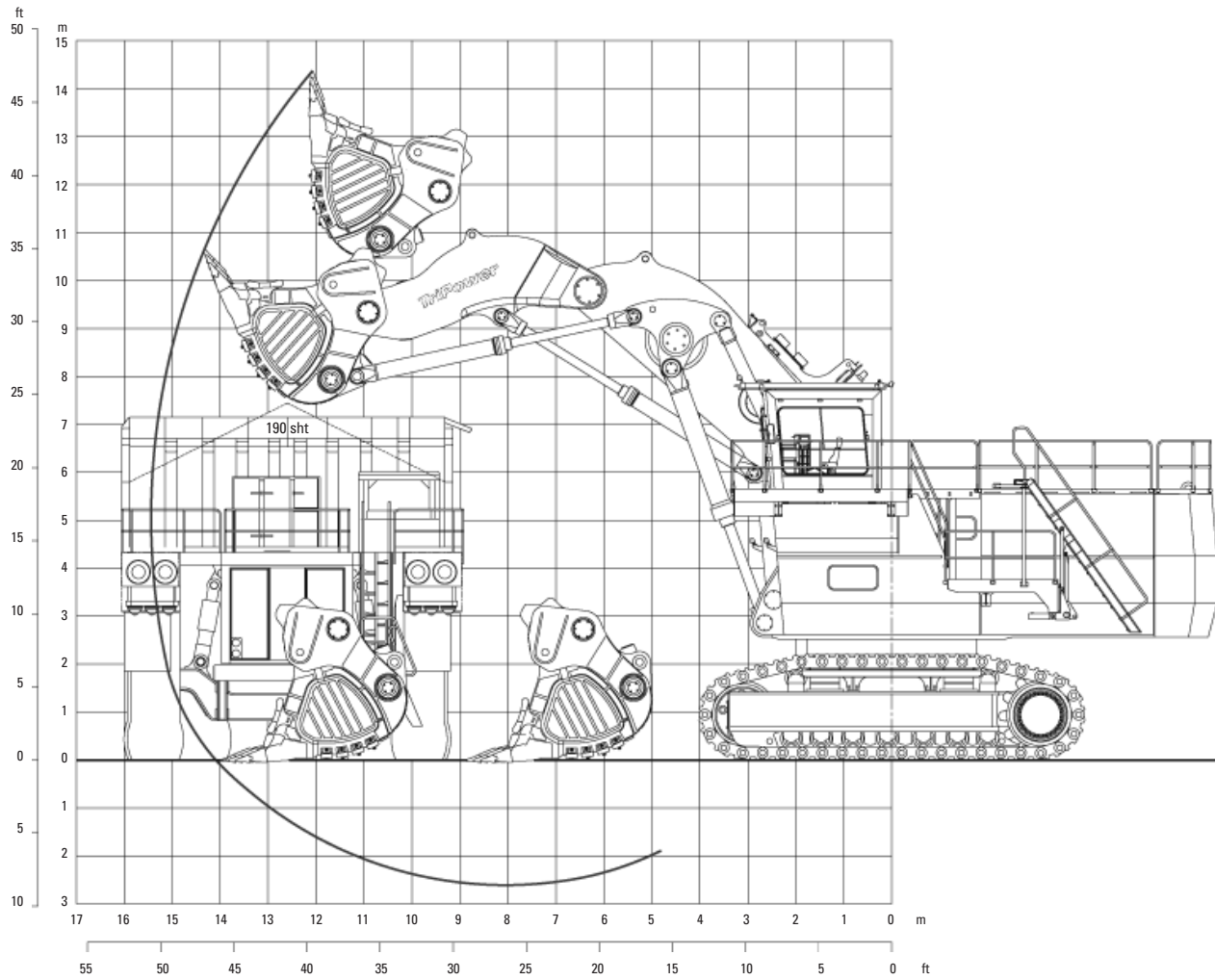
Capacity of grease container	1 000 l (264 US gal)
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- Dual-circuit system with hydraulically driven heavy-duty pump and electronic time relay control adjust the pause / lube times
- Connected to the lubrication system are the swing roller bearing with 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

# Hydraulic Shovel—6040

## TriPower Face Shovel Attachment (FS)

Working Diagram - Boom 7.3 m (23 ft 11 in) - Stick 4.6 m (15 ft 1 in)



### Working Range

Max. digging height	14.4 m	47 ft 3 in
Max. digging reach	15.4 m	50 ft 6 in
Max. digging depth	2.6 m	8 ft 6 in
Max. dumping height	10.9 m	35 ft 9 in
Crowd distance on level	5.1 m	16 ft 9 in

### Digging Forces

Max. crowd force	1 810 kN	406,760 lb
Max. crowd force at ground level	1 280 kN	287,650 lb
Max. breakout force	1 270 kN	285,410 lb

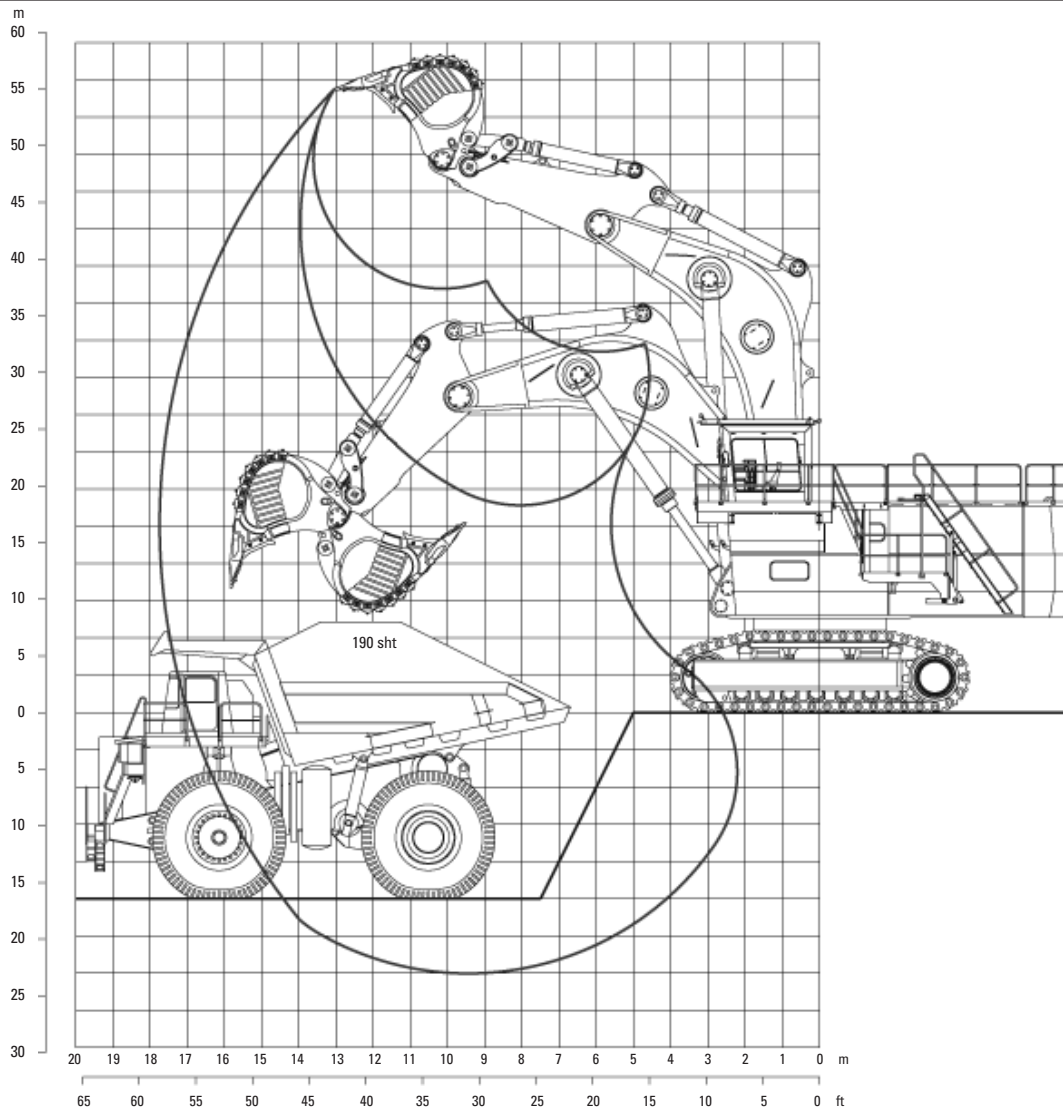
### Face Shovels

Type	Iron ore shovel	Heavy rock shovel	Heavy rock shovel	Standard rock shovel
Tooth system	ESCO S110	ESCO S110	ESCO S110	ESCO S110
Capacity SAE / PCSA 1:1	17.1 m <sup>3</sup> (22.4 yd <sup>3</sup> )	20.6 m <sup>3</sup> (26.9 yd <sup>3</sup> )	23.2 m <sup>3</sup> (30.3 yd <sup>3</sup> )	25.3 m <sup>3</sup> (33.1 yd <sup>3</sup> )
<b>Capacity SAE / CECE 2:1</b>	<b>15.0 m<sup>3</sup> (19.6 yd<sup>3</sup>)</b>	<b>18.0 m<sup>3</sup> (23.5 yd<sup>3</sup>)</b>	<b>20.0 m<sup>3</sup> (26.2 yd<sup>3</sup>)</b>	<b>22.0 m<sup>3</sup> (28.8 yd<sup>3</sup>)</b>
Total width	4 220 mm (13 ft 4 in)	4 220 mm (13 ft 4 in)	4 680 mm (15 ft 4 in)	4 680 mm (15 ft 4 in)
Inner width	3 840 mm (12 ft 7 in)	3 840 mm (12 ft 7 in)	4 300 mm (14 ft 1 in)	4 300 mm (14 ft 1 in)
Opening width	1 940 mm (6 ft 4 in)	1 940 mm (6 ft 4 in)	2 010 mm (6 ft 7 in)	2 010 mm (6 ft 7 in)
No. of teeth	5	5	6	6
Weight incl. universal wear kit	33 600 kg (74,070 lb)	34 300 kg (75,620 lb)	36 300 kg (80,030 lb)	37 300 kg (82,230 lb)
Max. material density (loose)	2.8 t/m <sup>3</sup> (4,720 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> )

# Hydraulic Shovel—6040

## Backhoe Attachment (BH)

Working Diagram - Boom 9.5 m (31 ft 2 in) - Stick 4.6 m (15 ft 1 in)



### Working Range

Max. digging depth	7.0 m	23 ft
Max. digging reach	17.7 m	58 ft 1 in
Max. digging height	16.8 m	55 ft 1 in

### Digging Forces

Max. crowd force	1 070 kN	240,460 lb
Max. breakout force	1 120 kN	251,700 lb

### Backhoes

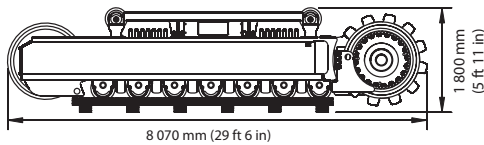
Type	Heavy rock bucket	Heavy rock bucket	Standard rock bucket
Tooth system	ESCO S95	ESCO S95	ESCO S95
<b>Capacity SAE 1:1</b>	<b>18.0 m<sup>3</sup> (23.5 yd<sup>3</sup>)</b>	<b>20.0 m<sup>3</sup> (26.2 yd<sup>3</sup>)</b>	<b>22.0 m<sup>3</sup> (28.8 yd<sup>3</sup>)</b>
Capacity CECE 2:1	16.1 m <sup>3</sup> (21.1 yd <sup>3</sup> )	17.7 m <sup>3</sup> (23.2 yd <sup>3</sup> )	19.5 m <sup>3</sup> (25.5 yd <sup>3</sup> )
Capacity struck	14.0 m <sup>3</sup> (18.3 yd <sup>3</sup> )	15.3 m <sup>3</sup> (20.0 yd <sup>3</sup> )	17.2 m <sup>3</sup> (22.5 yd <sup>3</sup> )
Total width	4 150 mm (13 ft 7 in)	4 150 mm (13 ft 7 in)	4 150 mm (13 ft 7 in)
Inner width	3 800 mm (12 ft 6 in)	3 800 mm (12 ft 6 in)	3 800 mm (12 ft 6 in)
No. of teeth	6	6	6
Weight incl. universal wear kit	21 000 kg (46,300 lb)	22 600 kg (49,820 lb)	23 800 kg (52,470 lb)
Max. material density (loose)	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> )

# Hydraulic Shovel—6040

## General Packing List

### Crawler side frame (2 units)

Width 1 800 mm (5 ft 11 in) Gross weight 29 950 kg (66,030 lb)



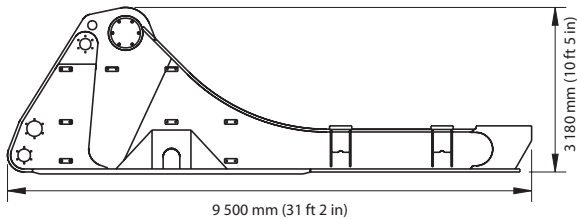
### 6 tracks consisting of 13 pad links each

Width 1 200 mm (4 ft 7 in) Gross weight (each) 7 350 kg (16,200 lb)



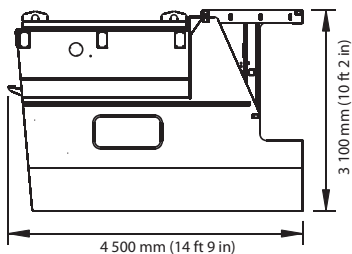
### Superstructure center frame

Width 3 610 mm (11 ft 10 in) Gross weight 50 500 kg (111,330 lb)



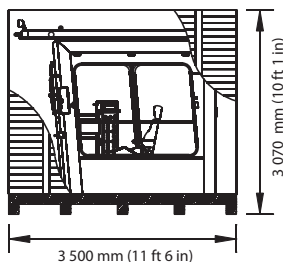
### Cab pedestal module

Width 2 500 mm (8 ft 2 in) Gross weight 7 100 kg (15,650 lb)



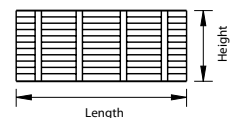
### Crate with cabin and FOPS

Width 2 610 mm (8 ft 7 in) Gross weight 3 800 kg (8,380 lb)



### Crates

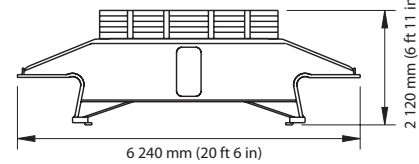
Content	Length	Width	Height	Gross Weight
Three swing gear	1 550 mm (5 ft 1 in)	1 350 mm (4 ft 5 in)	1 980 mm (6 ft 6 in)	3 830 kg (8,440 lb)
Swing ring cover	2 200 mm (7 ft 3 in)	1 300 mm (4 ft 3 in)	1 150 mm (3 ft 9 in)	340 kg (750 lb)
Bolts, ladder, platform, etc.	3 400 mm (11 ft 2 in)	1 250 mm (4 ft 1 in)	1 370 mm (4 ft 6 in)	1 700 kg (3,750 lb)
Grease container with pump	1 700 mm (5 ft 7 in)	1 370 mm (4 ft 6 in)	2 160 mm (7 ft 1 in)	1 470 kg (3,240 lb)
Barrels (hydraulic oil)	1 900 mm (6 ft 3 in)	1 300 mm (4 ft 3 in)	1 270 mm (4 ft 2 in)	1 500 kg (3,310 lb)
Barrels (oil; grease; antifreeze)	2 500 mm (8 ft 2 in)	1 300 mm (4 ft 3 in)	1 270 mm (4 ft 2 in)	1 500 kg (3,310 lb)
Retractable ladder	5 570 mm (18 ft 3 in)	1 110 mm (3 ft 8 in)	1 660 mm (5 ft 5 in)	740 kg (1,630 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.

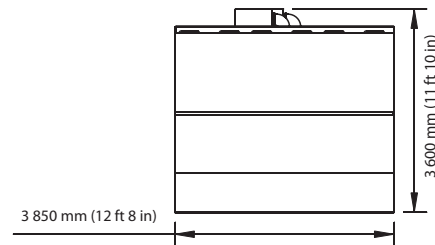
### Undercarriage center frame with swing roller bearing

Width 3 800 mm (12 ft 6 in) Gross weight 33 900 kg (74,740 lb)



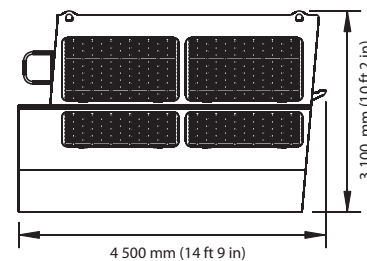
### Engine module with diesel engines

Width 6 150 mm (20 ft 2 in) Gross weight C32 33 000 kg (72,750 lb)  
KTA38 35 000 kg (77,160 lb)



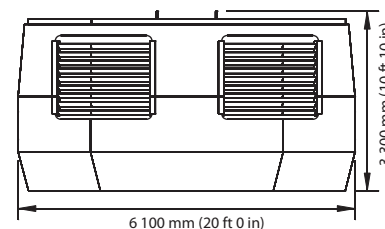
### Oil cooler module

Width 2 000 mm (6 ft 7 in) Gross weight 7 000 kg (15,430 lb)



### Counterweight incl. radiators

Width 1 300 mm (4 ft 3 in) Gross weight 38 850 kg (85,650 lb)

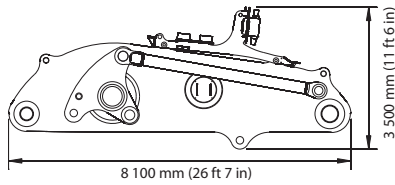


# Hydraulic Shovel—6040

## TriPower Shovel Attachment

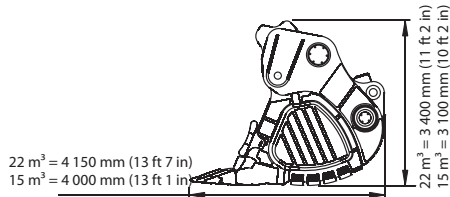
### Boom with main valve block, TriPower linkages and rods

Width 2 800 mm (9 ft 2 in) Gross weight 35 900 kg (79,850 lb)



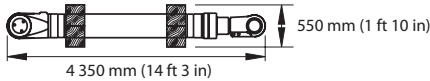
### Face shovel incl. pin for stick

Capacity (2:1)	Width	Gross weight
22.0 m <sup>3</sup> (28.8 yd <sup>3</sup> )	4 700 mm (15 ft 5 in)	38 300 kg (84,440 lb)
15.0 m <sup>3</sup> (19.6 yd <sup>3</sup> )	4 250 mm (13 ft 11 in)	34 600 kg (76,280 lb)



### Bundle with 2 boom cylinders

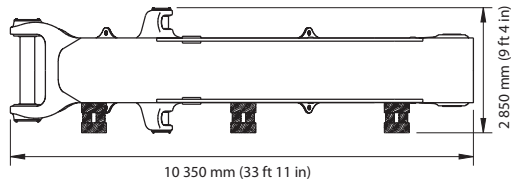
Width 1 100 mm (3 ft 7 in) Gross weight 6 700 kg (14,770 lb)



## Backhoe Attachment

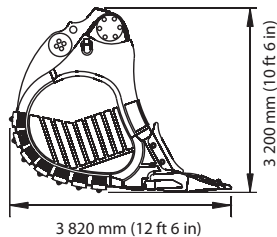
### Monoboam without main valve block

Width 4 500 mm (14 ft 9 in) Gross weight 34 900 kg (76,940 lb)



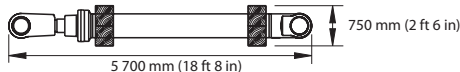
### Backhoe bucket incl. pins for stick and linkage

Capacity (2:1)	Width	Gross weight
22.0 m <sup>3</sup> (28.8 yd <sup>3</sup> )	4 310 mm (14 ft 2 in)	24 800 kg (54,670 lb)



### Bundle with 2 boom cylinders

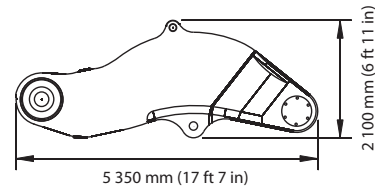
Width 1 200 mm (3 ft 11 in) Gross weight 9 600 kg (21,160 lb)



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.

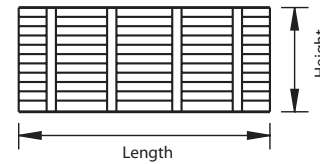
## Stick

Width 2 050 mm (6 ft 9 in) Gross weight 12 660 kg (27,910 lb)



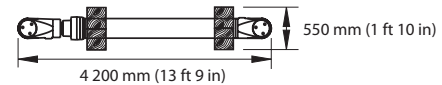
## Crates with catwalks, railings and other parts

Length	Width	Height	Gross weight
4 270 mm (14 ft)	1 900 mm (6 ft 3 in)	1 680 mm (5 ft 6 in)	2 700 kg (5,950 lb)
5 000 mm (6 ft 5 in)	1 270 mm (4 ft 2 in)	1 750 mm (5 ft 9 in)	2 900 kg (4,630 lb)



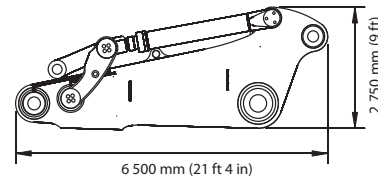
## 2 Bundles with 2 stick cylinders and 2 bucket cylinders each

Width 1 100 mm (3 ft 7 in) Gross weight 4 300 kg (9,480 lb)



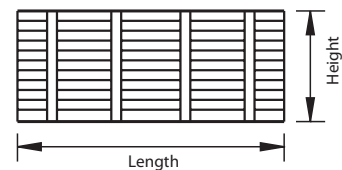
## Stick with linkage and bucket cylinders

Width 2 200 mm (7 ft 3 in) Gross weight 23 000 kg (50,710 lb)



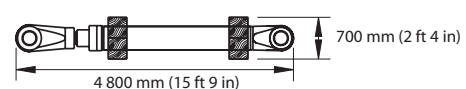
## Crates with main valve block, catwalks, railings and other parts

Length	Width	Height	Gross weight
4 950 mm (16 ft 3 in)	2 100 mm (6 ft 11 in)	1 720 mm (5 ft 8 in)	5 300 kg (27,580 lb)
4 960 mm (16 ft 3 in)	1 900 mm (6 ft 3 in)	1 840 mm (6 ft)	3 000 kg (6,610 lb)
4 260 mm (14 ft)	1 900 mm (6 ft 3 in)	1 700 mm (5 ft 7 in)	2 700 kg (11,350 lb)



## Bundle with 2 stick cylinders

Width 1 200 mm (3 ft 11 in) Gross weight 6 400 kg (14,110 lb)

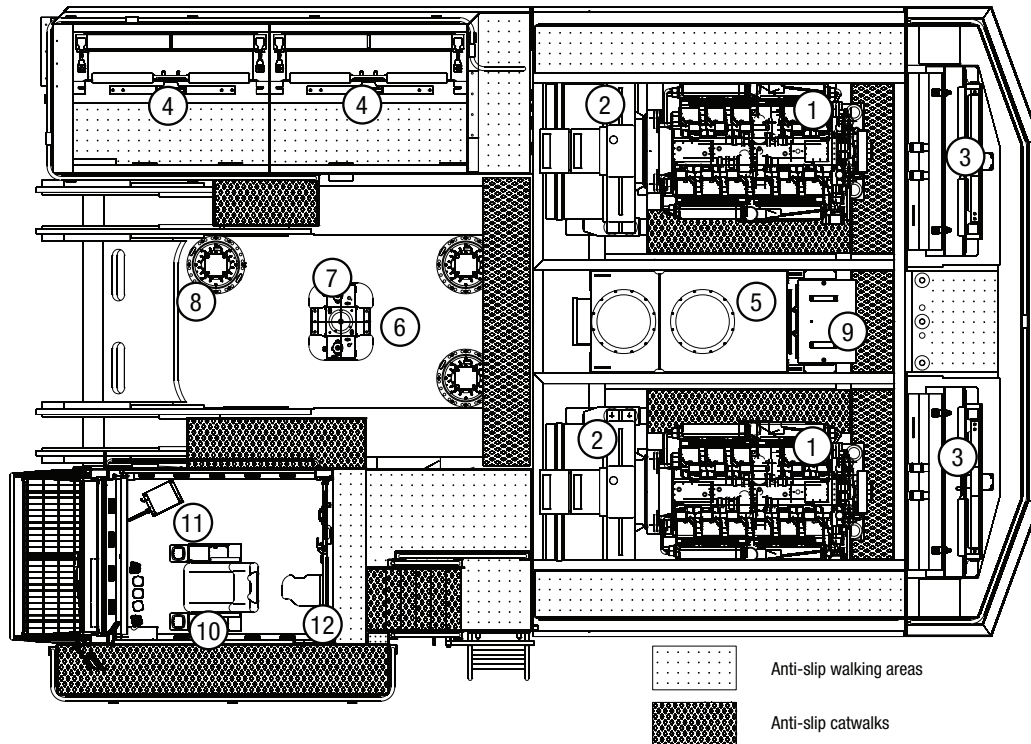




# Hydraulic Shovel—6040

## Component Accessibility on Superstructure

- |   |                   |                                   |                     |
|---|-------------------|-----------------------------------|---------------------|
| 1. Diesel engines                                 | 4. Oil coolers    | 7. Rotary Distributor             | 10. Operator's seat |
| 2. Gearboxes with hydraulic pumps                 | 5. Hydraulic tank | 8. Travel values                  | 11. BCS tower       |
| 3. Engine radiators with hydraulically driven fan | 6. Swing drives   | 9. Switch cabinet and battery box | 12. Auxiliary seat  |



## Optional Equipment

### General

- Export crating
- Finishing as per end user's corporate colors
- Customizing of logos as per customer's specification

### Superstructure

- Hydraulic service crane on superstructure with auxiliary engine
- Mesabi radiators instead of standard radiators (Cummins engines only)
- Oil change interval extension for engine oil up to 1,000 hrs (Cummins only)
- Engine oil burn system (Cummins engines only)
- Centrifuges for engine oil filtration (Cummins engines only)
- Folding access stairway, stairway angle approx. 45°
- Round container with a standard 200 l grease barrel (instead of 1 000 l 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
- Outside-mounted sun shields
- Additional instrumentation

### Undercarriage

- Track pad width 1 400 mm (4 ft 7 in) or 1 600 mm (5 ft 3 in)
- Automatic lubrication of rollers by central lube system
- Cover plate under carbody (belly plate)

### Attachment

- Xenon lighting on boom
- Special wear packages

Additional optional equipment available on request

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