PRODUCT SPECIFICATIONS FOR 6060

GENERAL	
Engine Output - SAE J1995	2256 kW
Bucket Payload	61 t
Operating Weight	599 t
Note	Specifications shown above apply to Face Shovel configuration. Backhoe and Frontless configurations are also available.
ENGINE	
Engine Model	2 x Cat 3512E
DIESEL ENGINES	
Rated Speed	1,800 min-1 (1,800 rpm)
Number of Cylinders - Each Engine	12
Bore	170 mm
Stroke	215 mm
Displacement	58.6 I
Aspiration	Turbocharged and charge air-cooled
Components (1)	Non-DEF Aftertreatment system with Diesel Oxidation Catalysts (DOCs)
Components (2)	High-capacity water separator
Components (3)	Two-stage fuel filter with series filtration
Components (4)	Heavy-duty air filters
Components (5)	Microprocessed engine management

Components (6)	Hydraulically driven radiator fan with electronically controlled fan speed
Components (7)	Exhaust manifold and turbo heat shields
DIESEL ENGINE - LESSER REGULATED	
Gross Power - SAE J1995	2256 kW
Net Power - ISO 9249	2235 kW
Net Power - SAE J1349	2221 kW
Emissions	Optimized for fuel consumption.
DIESEL ENGINE - HIGHLY REGULATED	
Gross Power - SAE J1995	2256 kW
Net Power - SAE J1349	2214 kW
Net Power - ISO 9249	2228 kW
Emissions	Meets U.S. EPA Tier 4 Final emission requirements. These engines participate in the U.S. EPA averaging, banking, and trading provisions.
ELECTRICAL SYSTEM	
System Voltage	24 V
Batteries in Series/Parallel Installation	6 x 210 Ah; 12 V each; 630 Ah 24 V in total
Components (1)	6 maintenance-free batteries
Components (2)	Lockable battery isolator switch
Components (3)	Lockable starter isolator switch
Components (4)	13 LED high-brightness working flood lights
Components (5)	16 LED service lights
Components (6)	2 electric horns (1 cab module: 1 oil cooler module)

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6060 FS - Standard Track Pads	1400 mm
6060 FS - Operating Weight	598800 kg
6060 FS - Ground Pressure	26.6 N/cm2 (38.5 psi)
Backhoe - Standard Track Pads	1400 mm
Backhoe - Operating Weight	600500 kg
Backhoe - Ground Pressure	26.7 N/cm2 (38.7 psi)
Note	Operating weights include: base machine, front attachment, standard track pads, standard rock bucket, 100% fuel and lubricants.

SERVICE REFILL CAPACITIES

Fuel Tank	11870 I
Hydraulic Tank	7100 I
Hydraulic System - Including Tank	9400 I
Engine Oil	328 I
Cooling System	800 I
Swing Drive	160 I
Grease Tank	710

HYDRAULIC SYSTEM WITH PUMP MANAGING SYSTEM

Main Pumps - Diesel Version	8 variable swash plate pumps
Main Pumps - Maximum Oil Flow - Diesel Version	8 x 650 L/min (8 x 172 gal/min)
Maximum Pressure - Attachment	320 bar

Maximum Pressure - Travel	360 bar	
Swing Pumps - Diesel Version	4 reversible swash plate pumps	
Swing Pumps - Maximum Oil Flow - Diesel Version	4 x 352 L/min (4 x 93 gal/min)	
Maximum Pressure - Swing Pumps	350 bar	
HYDRAULIC OIL COOLING		
Oil Flow of Cooling Pumps	4 x 488 L/min (4 x 129 gal/min)	
Components	4 cooling fans	
Diameter - Fan	1170 mm	
Features (1)	Cooling system fully independent of all main circuits, i.e. controlled cooling capacity is available whenever engine is running	
Features (2)	Fan speed and flow of oil to the coolers are thermostatically controlled	
Features (3)	Extremely high cooling efficiency to ensure optimum oil temperature	
Features (4)	Gear-type cooling pumps supplying high-volume, low-pressure oil to fans and aluminum coolers	
SWING SYSTEM		
Swing Drive	4 compact planetary transmissions with axial piston motors	
Parking Brakes	Wet multiple disc brake, spring loaded/hydraulically released	
Maximum Swing Speed	3.8 r/min	
Swing Ring	Triple-race roller bearing with sealed internal gearing	
Features (1)	Dirt wipers at swing ring to prevent build-up of debris between swing ring and carbody	
Features (2)	Closed-loop swing circuit with torque control	

Features (3)	Hydraulic braking of the swing motion by counteracting control	
Features (4)	All raceways and the internal gearing of swing ring, supplied by automatic central lubrication system	
UNDERCARRIAGE		
Travel Speed - 1st Stage - Maximum	1.1 km/h	
Travel Speed - 2nd Stage - Maximum	1.6 km/h	
Maximum Tractive Force	2942 kN	
Gradeability - Travel Drives - Maximum	39 %	
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	
Components (1)	HD tracks with cast double-grouser track pad	
Components (2)	HD fixed axle rollers and idlers	
Components (3)	Hardened running surfaces of sprockets, idlers, rollers, pad links, and teeth contact areas	
Components (4)	Acoustic travel alarm (forward and reverse)	
Components (5)	Fully hydraulic, self-adjusting track tensioning system with piston accumulator	
Components (6)	Automatic hydraulic retarder valve to prevent over- speed on downhill travel	
OPERATOR'S CAB		
Operator's Eye Level - Approximately	7.6 m	
Internal Dimensions of Cab - Length	2230 mm	
Internal Dimensions of Cab - Width	1625 mm	

Internal Dimensions of Cab - Height	2070 mm	
Components (1)	Single hydraulically driven HVAC System, with dual system option	
Components (2)	In-floor window with removable grate	
Components (3)	Pneumatically cushioned and multi-adjustable comfort seat with heating, cooling, and lumbar support	
Components (4)	Independently adjustable seat consoles with integrated joysticks	
Components (5)	Operator Protective Guard (Top Guard) (ISO 10262:1998)	
Components (6)	Elevated full-size trainer seat with safety belt and laptop desk	
Components (7)	Additional fold-away auxiliary seat with safety belt	
Components (8)	Operator Presence switch	
Components (9)	Monitoring system with 254 mm (10 in) touch screen	
Components (10)	Powered 45 degree access stairway	
Components (11)	Emergency egress ladder	
Components (12)	FM/AM radio with USB and AUX input	
Components (13)	Roller blinds on 3 front windows	
Components (14)	3 cup holders	
Components (15)	Cat Electronic Technician service port	
AUTOMATIC LUBRICATION SYSTEM		
Capacity - Grease Container	710	
Type (1)	Dual-circuit system with hydraulically driven heavy- duty pumps and electronic time relay control to adjust the pause/lube times	
Type (2)	System failures displayed by monitoring system	
Type (3)	Grease filters (200 µm) between service station and	

	container as well as allestly behind grease paintp	
Type (4)	Main lube system connections include: pivot points of attachment, bucket and cylinders, raceways of swing roller bearing, and 2 greasing pinions for the internal gearing of swing ring	
ATTACHMENTS		
Shovel attachment with unique TriPower kinematics ensuring the following main features: (1)	Automatic roll-back limiter to prevent material spillage; Kinematic assistance to hydraulic forces	
Shovel attachment with unique TriPower kinematics ensuring the following main features: (2)	Horizontal Automatic constant-angle bucket guidance; Vertical Automatic constant-angle bucket guidance	
Shovel attachment with unique TriPower kinematics ensuring the following main features: (3)	Constant boom momentum throughout the entire lift arc; Crowd force assistance	
All buckets (FS and BH) are equipped with a wear package consisting of: (1)	Special liner material covering main wear areas inside and outside of bucket and lip shrouds between teeth	
All buckets (FS and BH) are equipped with a wear package consisting of: (2)	Wing shrouds on side walls and heel shrouds at bottom edges	
Туре (1)	Catwalks with rails at booms (FS and BH)	
Type (2)	Guards for shovel cylinders (FS)	
Type (3)	Pressure-free lowering of boom (FS and BH) and stick (FS) by means of a float valve	
Type (4)	Service access holes from both sides of boom (FS and BH) and stick (FS)	
Type (5)	Welding procedures allow for internal counterwelding (double prep weld) wherever possible	
Type (6)	Booms and sticks are stress-relieved after welding	
Туре (7)	Booms and sticks are torsion-resistant, welded box design of high-tensile steel with massive steel castings at pivot areas	
Type (8)	Special wear packages for highly abrasive materials available upon request	

DIGGING FORCES	
Maximum Crowd Force	2200 kN
Maximum Breakout Force	1730 kN
WORKING RANGES	
Maximum Digging Height	15.6 m
Maximum Digging Reach	16.5 m
Maximum Digging Depth	2.8 m
STANDARD BUCKET CAPACITY	
Face Shovel (heaped 2:1)	34 m³
Backhoe (heaped 1:1)	34 m³
BACKHOE ATTACHMENT (BH) - DIGGING FORCES	
Stick Digging Force - ISO	1316 kN
Bucket Digging Force - ISO	1223 kN
BACKHOE ATTACHMENT (BH) - WORKING RANGE	
Maximum Digging Height	16.1 m
Maximum Digging Reach	19 m
Maximum Digging Depth	8.9 m

Installation	Retractable service station installed underneath the engine module and easily accessible from ground.
Equipped With (1)	Quick couplings for: Diesel fuel, Engine coolant - left/right engine, Pump transmission gear oil - left/right engine, Engine oil - left/right engine, Hydraulic oil tank, and grease container
Equipped With (2)	Cat jump-start socket
Equipped With (3)	Indicator lights

6060 OPTIONAL EQUIPMENT

GENERAL

Custom paint

SUPERSTRUCTURE

Oil change interval extension for engine oil up to 500 hours, with optional extension to 1,000 hours

Rectangular grease container, 710 L (188 gal), filled via service station

Various cold-weather options for temperatures below -10°; 400 V, 50 Hz and 208 V, 60 Hz

CAB

Dual hydraulically driven HVAC system for redundancy

Cab heating

Camera monitoring system with two cameras, two lights, and additional display

UNDERCARRIAGE

Track pad width 1400 mm (4 ft 7 in)

Belly plate for undercarriage protection

Additional optional equipment available on request.