

# Cat<sup>®</sup> 938K

# SUGARCANE HANDLER

#### K Series - Making Your Choice Easy:

 Work Made Easy – Move more with Caterpillar's ultra-capacity bagasse bucket, dedicated to stockpiling material at the mill or a patented quick loading Performance Series bucket for digging terraces in the field.

The 938K Sugarcane Handler is built to handle a high temperature and high debris environment, with a cyclonic pre-filter and on-demand hydraulically driven reversing fan as standard.

- Enjoy All Day Comfort Have a seat in the 938K Sugarcane Handler and enjoy excellent all around visibility and low-effort joystick controls that move with you on a fully adjustable seat suspension. A large spacious operator environment combined with Caterpillar's exclusive hydraulic cylinder damping and smooth predictable controls make this the most comfortable seat on your job site.
- Efficiently Powerful For tough and demanding sugarcane applications the purpose-built power train of the 938K Sugarcane Handler includes a high torque axle paired with high flotation agricultural tires. Combined with an intelligent hydrostatic transmission and maximum engine speed of 1,800 rpm, allows you to move more material while enjoying industry leading fuel savings.
- Customize Your Experience Meet your application requirements and individual preferences with Caterpillar's industry first Hystat Operator Modes featuring unique power train settings. Select classic Torque Converter for smooth roll-out, or conventional Hystat for aggressive engine braking. Fine tune machine performance by adjusting wheel torque when working in muddy fields or maximize torque when climbing a mountain of bagasse.

# **Specifications**

#### Engine

<u> </u>				
Engine Model	Cat <sup>®</sup> C7.1 ACERT™			
Power Mode	Standard Mode		Performance Mode	
Speed Range	Range 1-3*		Range 1-4	
Maximum Gross Power				
Maximum Engine Speed	1,600 rpm		1,800 rpm	
ISO 14396	129 kW	173 hp	140 kW	188 hp
ISO 14396 (DIN)	129 kW	175 hp	140 kW	190 hp
Rated Net Power	1,600 rpm		1,800 rpm	
SAE J1349	126 kW	169 hp	136 kW	182 hp
ISO 9249 (DIN)	127 kW	173 hp	138 kW	188 hp
Maximum Gross Torque				
ISO 14396	896 N⋅m	660 lbf-ft	912 N⋅m	672 lbf-ft
Maximum Net Torque				
SAE J1349	860 N⋅m	634 lbf-ft	876 N⋅m	646 lbf-ft
ISO 9249 (1977)/EEC 80/1269	870 N⋅m	641 lbf-ft	886 N·m	653 lbf-ft
Displacement	7.01 L	427 in <sup>3</sup>	7.01 L	427 in <sup>3</sup>

• Engine meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3/Stage IIIA.

• Net power shown is the power available at the flywheel when the engine is equipped with alternator and air cleaner.

\*Range 4 power is boosted to be the same as Performance Mode.

#### **Buckets**

Buokoto		
Bucket Capacities – General Purpose	2.5-3.2 m <sup>3</sup>	3.2-4.2 yd <sup>3</sup>
Bucket Capacities – Light Material	3.1-5.5 m <sup>3</sup>	4.0-7.5 yd <sup>3</sup>
Steering		
Steering Articulation Angle (each direction)	40°	
Maximum Flow – Steering Pump	130 L/min	34 gal/min
Maximum Working Pressure –		
Steering Pump	24 130 kPa	3,500 psi
Maximum Steering Torque:		
0 degrees (straight machine)	57 630 N∙m	42,506 lbf-ft
40 degrees (full turn)	42 570 N⋅m	31,398 lbf-ft
Steering Cycle Times (full left to full right):		
At 1,800 rpm: 90 rpm		
steering wheel speed	2.2 seconds	
Number of Steering Wheel Turns – full left		
to full right or full right to full left	3.1 turns	



# 938K Sugarcane Handler

#### Loader Hydraulic System

Eoudor Hydrauno Oystoni		
Maximum Flow – Implement Pump	190 L/min	50 gal/min
3rd Function Maximum Flow*	190 L/min	50 gal/min
4th Function Maximum Flow*	150 L/min	40 gal/min
Maximum Working Pressure –		
Implement Pump	28 000 kPa	4,061 psi
Relief Pressure – Tilt Cylinder	30 000 kPa	4,351 psi
3rd Function Maximum Working Pressure	28 000 kPa	4,061 psi
4th Function Maximum Working Pressure	28 000 kPa	4,061 psi
Hydraulic Cycle Times:	Standard Mode	Performance Mode
	At 1,600 rpm	At 1,800 rpm
Raise (ground level to maximum lift)	6.3 seconds	5.6 seconds
Dump (at maximum lift height)	1.5 seconds	1.3 seconds
Float Down (maximum lift to ground level)	2.7 seconds	2.7 seconds
Total Cycle Time	10.5 seconds	9.6 seconds

\*Adjustable from 20% to 100% of maximum flow through the secondary display, when equipped.

#### **Service Refill Capacities**

Fuel Tank	195 L	51.5 gal	
Cooling System	32 L	8.5 gal	
Engine Crankcase	19.5 L	5.2 gal	
Transmission (gearbox)	11 L	2.9 gal	
Axles:			
Front	35 L	9.2 gal	
Rear	35 L	9.2 gal	
Hydraulic System (including tank)	170 L	44.9 gal	
Hydraulic Tank	90 L	23.8 gal	

#### Transmission

Forward and Reverse:		
Range 1*	1-13 km/h	0.6-8 mph
Range 2	13 km/h	8 mph
Range 3	27 km/h	17 mph
Range 4	40 km/h	25 mph

\*Creeper control allows maximum speed range adjustability from 1 km/h (0.6 mph) to 13 km/h (8 mph) in Range 1 through the secondary display, when equipped. Factory default is 7 km/h (4.4 mph).

# Tires

Standard Size

#### Cab ROPS

FOPS

ISO 3471:2008 ISO 3449:2005 Level II

750/65R26, Radial, Agricultural

• Cab and Rollover Protective Structures (ROPS) are standard.

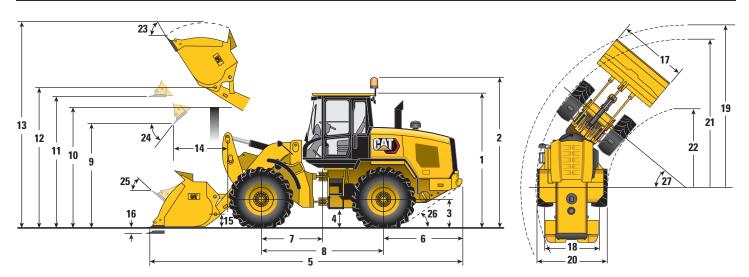
#### Sound

- The declared dynamic operator sound pressure level is 72 dB(A) when "ISO 6396:2008" is used to measure the value for an enclosed cab.
- The measurement was conducted at 70% of the maximum engine cooling fan speed, with the cab doors and cab windows closed. The cab was properly installed and maintained. The sound level may vary at different engine cooling fan speeds.
- The declared exterior sound power level is 104 dB(A) when the value is measured according to the dynamic test procedures and the conditions that are specified in "ISO 6395:2008."

#### Axles

Front	Fixed
	Locking differential (standard)
Rear	Oscillating ±7 degrees
	Open differential (standard)
	Limited slip differential
	(optional in some regions)

## **Dimensions and Operating Specifications** (All dimensions are approximate.)



11 Clearance: Level Bucket 3713 mm 12'2" 3707 mm 12'2"   12 Height: Bucket Pin 4034 mm 13'3" 4034 mm 13'3"   13 Height: Overall 5801 mm 19'0" 5366 mm 17'7"   14 Reach: Bucket at 45 degrees 1344 mm 4'5" 1079 mm 3'6"   15 Carry Height: Bucket Pin 400 mm 1'4" 400 mm 1'4"   15 Dig Depth 29 mm 1'1" 35 mm 1'4"   17 Width: Bucket 3062 mm 10'0" 2750 mm 9'0"   18 Width: Tread Center 2023 mm 6'8" 2023 mm 6'8"   19 Turning Radius: Over Bucket 6397 mm 21'0" 6112 mm 20'1"   20 Width: Over Tires 2893 mm 9'6" 2893 mm 9'6"   21 Turning Radius: Outside of Tires 5624 mm 18'5" 5624 mm 18'5"   22 Turning Radius: Inside of Tires 2743 mm 9'0" 2743 mm 9'0"   23 Rack Angle at Full Lift 54 degrees 54 degrees 24 degrees   24 Dump Angle at Full Lift 46 degrees 49 degrees 26 Departure Angle	Bucket Size	et Size 5.5 m³ (7.5 yd³)		2.7 m <sup>3</sup> (3.5 yd <sup>3</sup> )		
3   Height: Ground Axle Center   750 mm   2'6'   750 mm   2'6'     4   Height: Ground Clearance   451 mm   1'6'   451 mm   1'6'     5   Length: Overall   8068 mm   26'6'   7611 mm   25'0'     6   Length: Rear Axle to Bumper   1968 mm   6'5'   1968 mm   6'5'     7   Length: Wheel Base   3050 mm   10'0'   3050 mm   10'0''     9   Clearance: Bucket at 45 degrees   2523 mm   8'3''   2887 mm   9'6'     10   Clearance: Load Over Height   3419 mm   11'3''   3419 mm   11'3''     11   Clearance: Level Bucket   3713 mm   12''   3707 mm   12''     12   Height: Bucket Pin   40034 mm   13'3''   4034 mm   13'3''     13   Height: Overall   5801 mm   19'0''   5366 mm   17'7''     14   Reach: Bucket at 45 degrees   1344 mm   4'5''   1079 mm   3'6''     15   Carry Height: Bucket Pin   400 mm   1'4''	1 Height: Ground to Cab	3405 mm	11'2"	3405 mm	11'2"	
4 Height: Ground Clearance 451 mm 1'6' 451 mm 1'6'   5 Length: Overall 8068 mm 26 6' 7611 mm 250''   6 Length: Rear Axle to Bumper 1968 mm 6'5' 1968 mm 6'5''   7 Length: Hitch to Front Axle 1525 mm 5'0' 1525 mm 5'0''   8 Length: Wheel Base 3050 mm 10'0' 3050 mm 10'''   9 Clearance: Bucket at 45 degrees 2523 mm 8'3'' 2887 mm 9'6''   10 Clearance: Load Over Height 3419 mm 11'3' 3419 mm 11'3''   11 Clearance: Lovel Bucket 3713 mm 12'2'' 3707 mm 12'2''   12 Height: Bucket Pin 4034 mm 13'3'' 4034 mm 13'3''   13 Height: Overall 5801 mm 19'0'' 5366 mm 17'7''   14 Reach: Bucket at 45 degrees 1344 mm 4'5''' 1079 mm 3'6''   15 Carry Height: Bucket Pin 400 mm 1'4'' 400 mm 1'4''   16 Dig Depth 29 mm 1'1'' 35 mm 1'4''   17 Width: Bucket 3062 mm 10'0'' 2750 mm 9'	2 Height: Ground to Beacon	3772 mm	12'5"	3772 mm	12'5"	
5 Length: Overall 8068 mm 26°6" 7611 mm 25°0"   6 Length: Rear Axle to Bumper 1968 mm 6'5" 1968 mm 6'5"   7 Length: Hitch to Front Axle 1525 mm 50" 1525 mm 50"   8 Length: Wheel Base 3050 mm 100" 3050 mm 100"   9 Clearance: Bucket at 45 degrees 2523 mm 8'3" 2887 mm 9'6"   10 Clearance: Load Over Height 3419 mm 11'3" 3419 mm 11'3"   11 Clearance: Level Bucket 3713 mm 12"2" 3707 mm 12"2"   12 Height: Bucket Pin 4034 mm 13"3" 4034 mm 13"3"   13 Height: Overall 5001 mm 19"0" 5366 mm 17"7"   14 Reach: Bucket at 45 degrees 1344 mm 4"5" 1079 mm 3'6"   15 Carry Height: Bucket Pin 400 mm 1'4" 400 mm 1'4"   16 Dig Depth 29 mm 1'1" 35 mm 1'4"   17 Width: Bucket 3062 mm 10"0" <t< td=""><td>3 Height: Ground Axle Center</td><td>750 mm</td><td>2'6"</td><td>750 mm</td><td>2'6"</td></t<>	3 Height: Ground Axle Center	750 mm	2'6"	750 mm	2'6"	
6   Length: Hich to Front Axle   1968 mm   6'5"   1968 mm   6'5"     7   Length: Hitch to Front Axle   1525 mm   50"   1525 mm   50"     8   Length: Wheel Base   3050 mm   10'0"   3050 mm   10'0"     9   Clearance: Bucket at 45 degrees   2523 mm   8'3"   2887 mm   9'6"     10   Clearance: Load Over Height   3419 mm   11'3"   3419 mm   11'3"     11   Clearance: Lovel Bucket   3713 mm   12'2"   3707 mm   12'2"     12   Height: Ducket Pin   4034 mm   13'3"   4034 mm   13'3"     13   Height: Voerall   5801 mm   19'0"   5366 mm   17'7"     14   Reach: Bucket at 45 degrees   1344 mm   4'5"   1079 mm   3'6"     15   Carry Height: Bucket Pin   400 mm   1'4"   400 mm   1'4"     17   Width: Eucket Nin   3062 mm   10'0"   2750 mm   9'0"     18   Vidth: Tread Center   2023 mm   6'8"   20	4 Height: Ground Clearance	451 mm	1'6"	451 mm	1'6"	
7 Length: Hitch to Front Axle 1525 mm 5'0" 1525 mm 5'0"   8 Length: Wheel Base 3050 mm 10'0" 3050 mm 10'0"   9 Clearance: Bucket at 45 degrees 2523 mm 8'3" 2887 mm 9'6"   10 Clearance: Load Over Height 3419 mm 11'3" 3419 mm 11'3"   11 Clearance: Level Bucket 3713 mm 12'2" 3707 mm 12'2"   11 Height: Bucket Pin 4034 mm 13'3" 4034 mm 13'3"   13 Height: Bucket Pin 400 mm 1'4" 400 mm 1'4"   15 Carry Height: Bucket Pin 20 mm 1'1" 35 mm 1'4"   16 Dig Depth 29 mm 1'1" 35 mm 1'4"   17 Width: Bucket 3062 mm 1'0'0" 2750 mm 9'0"   18 Width: Tread Center 2023 mm 6'8" 2023 mm 6'8"   19 Turning Radius: Over Bucket 6397 mm 21'0" 6112 mm 20'1"   20 Width: Over Tires 2833 mm 9'6"	5 Length: Overall	8068 mm	26'6"	7611 mm	25'0"	
8   Length: Wheel Base   3050 mm   10'0"   3050 mm   10'0"     9   Clearance: Bucket at 45 degrees   2523 mm   8'3"   2887 mm   9'6"     10   Clearance: Lavel Bucket   3419 mm   11'3"   3419 mm   11'3"     11   Clearance: Lavel Bucket   3713 mm   12'2"   3707 mm   12'2"     12   Height: Bucket Pin   4034 mm   13'3"   4034 mm   13'3"     13   Height: Bucket At 45 degrees   1344 mm   4'5"   1079 mm   3'6"     15   Carry Height: Bucket Pin   400 mm   1'4"   400 mm   1'4"     16   Dip Depth   29 mm   1'1"   35 mm   1'4"     17   Width: Bucket   3062 mm   10'0"   2750 mm   9'0"     18   Width: Sucket   3397 mm   2'10"   6'8"   2023 mm   6'8"     20   Width: Over Tires   2893 mm   9'6"   2893 mm   9'6"   2893 mm   9'6"     21   Turning Radius: Over Bucket   6397 mm </td <td>6 Length: Rear Axle to Bumper</td> <td>1968 mm</td> <td>6'5"</td> <td>1968 mm</td> <td>6'5"</td>	6 Length: Rear Axle to Bumper	1968 mm	6'5"	1968 mm	6'5"	
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10 Clearance: Load Over Height 3419 mm 11'3" 3419 mm 11'3"   11 Clearance: Level Bucket 3713 mm 12'2" 3707 mm 12'2"   11 Clearance: Level Bucket Pin 4034 mm 13'3" 4034 mm 13'3"   13 Height: Dverall 5801 mm 19'0" 5866 mm 17'7"   14 Reach: Bucket at 45 degrees 1344 mm 4'5" 1079 mm 3'6"   15 Carry Height: Bucket Pin 400 mm 1'4" 400 mm 1'4"   16 Dig Depth 29 mm 1'1" 35 mm 1'4"   17 Width: Bucket 3062 mm 10'0" 2750 mm 9'0"   18 Width: Tread Center 2023 mm 6'8" 2023 mm 6'8"   19 Turning Radius: Over Bucket 6397 mm 21'0" 6112 mm 20'1"   20 Width: Over Tires 2893 mm 9'6" 2893 mm 9'0" 23   21 Turning Radius: Outside of Tires 5624 mm 18'5" 5624 mm 18'5"   22 Turning Radius: Inside of Tires <	8 Length: Wheel Base	3050 mm	10'0"	3050 mm	10'0"	
11 Clearance: Level Bucket 3713 mm 12'2" 3707 mm 12'2"   12 Height: Bucket Pin 4034 mm 13'3" 4034 mm 13'3"   13 Height: Overall 5801 mm 19'0" 5366 mm 17'7"   14 Reach: Bucket at 45 degrees 1344 mm 4'5" 1079 mm 3'6"   15 Carry Height: Bucket Pin 400 mm 1'4" 400 mm 1'4"   15 Dig Depth 29 mm 1'1" 35 mm 1'4"   17 Width: Bucket 3062 mm 10'0" 2750 mm 9'0"   18 Width: Tread Center 2023 mm 6'8" 2023 mm 6'8"   19 Turning Radius: Over Bucket 6397 mm 21'0" 6112 mm 20'1"   20 Width: Over Tires 2893 mm 9'6" 2893 mm 9'6"   21 Turning Radius: Outside of Tires 5624 mm 18'5" 5624 mm 18'5"   22 Turning Radius: Inside of Tires 2743 mm 9'0" 2743 mm 9'0"   23 Rack Angle at Full Lift 54 degrees 54 degrees 24 degrees   24 Dump Angle at Full Lift 46 degrees 49 degrees 26 Departure Angle	9 Clearance: Bucket at 45 degrees	2523 mm	8'3"	2887 mm	9'6"	
12 Height: Bucket Pin 4034 mm 13'3" 4034 mm 13'3"   13 Height: Overall 5801 mm 19'0" 5366 mm 17'7"   14 Reach: Bucket at 45 degrees 1344 mm 4'5" 1079 mm 3'6"   15 Carry Height: Bucket Pin 400 mm 1'4" 400 mm 1'4"   16 Dig Depth 29 mm 1'1" 35 mm 1'4"   17 Width: Bucket 3062 mm 10'0" 2750 mm 9'0"   18 Width: Tread Center 2023 mm 6'8" 2023 mm 6'8"   19 Turning Radius: Over Bucket 6397 mm 21'0" 6112 mm 20'1"   20 Width: Over Tires 2893 mm 9'6" 2893 mm 9'6"   21 Turning Radius: Outside of Tires 5624 mm 18'5" 5624 mm 18'5"   22 Turning Radius: Inside of Tires 2743 mm 9'0" 2743 mm 9'0"   23 Rack Angle at Full Lift 54 degrees 54 degrees 54 degrees   24 Dump Angle at Full Lift 46 degrees 33 degrees <td>10 Clearance: Load Over Height</td> <td>3419 mm</td> <td>11'3"</td> <td>3419 mm</td> <td>11'3"</td>	10 Clearance: Load Over Height	3419 mm	11'3"	3419 mm	11'3"	
13 Height: Overall 5801 mm 19'0" 5366 mm 17'7"   14 Reach: Bucket at 45 degrees 1344 mm 4'5" 1079 mm 3'6"   15 Carry Height: Bucket Pin 400 mm 1'4" 400 mm 1'4"   16 Dig Depth 29 mm 1'1" 35 mm 1'4"   17 Width: Bucket 3062 mm 10'0" 2750 mm 9'0"   18 Width: Tread Center 2023 mm 6'8" 2023 mm 6'8"   19 Turning Radius: Over Bucket 6397 mm 21'0" 6112 mm 20'1"   20 Width: Over Tires 2893 mm 9'6" 2893 mm 9'6"   21 Turning Radius: Outside of Tires 5624 mm 18'5" 5624 mm 18'5"   21 Turning Radius: Inside of Tires 2743 mm 9'0" 2743 mm 9'0"   23 Rack Angle at Full Lift 54 degrees 54 degrees 24 degrees   24 Dump Angle at Full Lift 46 degrees 33 degrees 23 degrees   26 Departure Angle 33 degrees 33 degrees 1	11 Clearance: Level Bucket	3713 mm	12'2"	3707 mm	12'2"	
14 Reach: Bucket at 45 degrees 1344 mm 4'5" 1079 mm 3'6"   15 Carry Height: Bucket Pin 400 mm 1'4" 400 mm 1'4"   16 Dig Depth 29 mm 1'1" 35 mm 1'4"   17 Width: Bucket 3062 mm 10'0" 2750 mm 9'0"   18 Width: Tread Center 2023 mm 6'8" 2023 mm 6'8"   19 Turning Radius: Over Bucket 6397 mm 21'0" 6112 mm 20'1"   20 Width: Over Tires 2893 mm 9'6" 2893 mm 9'6"   21 Turning Radius: Outside of Tires 5624 mm 18'5" 5624 mm 18'5"   22 Turning Radius: Inside of Tires 2743 mm 9'0" 2743 mm 9'0"   23 Rack Angle at Full Lift 54 degrees 54 degrees 54 degrees   24 Dump Angle at Full Lift 46 degrees 42 degrees 22 27 Articulation Angle 33 degrees 33 degrees 33 degrees 23 degrees 23 degrees 24 degrees 42 degrees 42 degrees 42 degrees 42 degrees <td>12 Height: Bucket Pin</td> <td>4034 mm</td> <td>13'3"</td> <td>4034 mm</td> <td>13'3"</td>	12 Height: Bucket Pin	4034 mm	13'3"	4034 mm	13'3"	
15 Carry Height: Bucket Pin 400 mm 1'4" 400 mm 1'4"   16 Dig Depth 29 mm 1'1" 35 mm 1'4"   17 Width: Bucket 3062 mm 10'0" 2750 mm 9'0"   18 Width: Tread Center 2023 mm 6'8" 2023 mm 6'8"   19 Turning Radius: Over Bucket 6397 mm 21'0" 6112 mm 20'1"   20 Width: Over Tires 2893 mm 9'6" 2893 mm 9'6"   21 Turning Radius: Outside of Tires 5624 mm 18'5" 5624 mm 18'5"   21 Turning Radius: Inside of Tires 2743 mm 9'0" 2743 mm 9'0"   23 Rack Angle at Full Lift 54 degrees 54 degrees   24 Dump Angle at Full Lift 40 degrees 42 degrees   25 Rack Angle at Carry 42 degrees 33 degrees 33 degrees   26 Departure Angle 33 degrees 33 degrees 40 degrees   27 Articulation Angle 40 degrees 40 degrees 40 degrees   27 Mominal Mater	13 Height: Overall	5801 mm	19'0"	5366 mm	17'7"	
16 Dig Depth 29 mm 1'1" 35 mm 1'4"   17 Width: Bucket 3062 mm 10'0" 2750 mm 9'0"   18 Width: Tread Center 2023 mm 6'8" 2023 mm 6'8"   19 Turning Radius: Over Bucket 6397 mm 21'0" 6112 mm 20'1"   20 Width: Over Tires 2893 mm 9'6" 2893 mm 9'6"   21 Turning Radius: Outside of Tires 5624 mm 18'5" 5624 mm 18'5"   21 Turning Radius: Inside of Tires 2743 mm 9'0" 2743 mm 9'0"   23 Rack Angle at Full Lift 54 degrees 54 degrees 54 degrees   24 Dump Angle at Full Lift 46 degrees 49 degrees 42 degrees   24 Dump Angle at Carry 42 degrees 33 degrees 33 degrees 33 degrees   25 Rack Angle at Carry 42 degrees 40 degrees 40 degrees 40 degrees   27 Articulation Angle 40 degrees 40 degrees 40 degrees 40 degrees   17pping Load – Straight (ISO 14397-1) 10 49	14 Reach: Bucket at 45 degrees	1344 mm	4'5"	1079 mm	3'6"	
17 Width: Bucket 3062 mm 10'0" 2750 mm 9'0"   18 Width: Tread Center 2023 mm 6'8" 2023 mm 6'8"   19 Turning Radius: Over Bucket 6397 mm 21'0" 6112 mm 20'1"   20 Width: Over Tires 2893 mm 9'6" 2893 mm 9'6"   21 Turning Radius: Outside of Tires 5624 mm 18'5" 5624 mm 18'5"   21 Turning Radius: Inside of Tires 5624 mm 18'5" 5624 mm 18'5"   22 Turning Radius: Inside of Tires 2743 mm 9'0" 2743 mm 9'0"   23 Rack Angle at Full Lift 54 degrees 54 degrees 54 degrees   24 Dump Angle at Full Lift 46 degrees 49 degrees 52   25 Rack Angle at Carry 42 degrees 33 degrees 33 degrees 33 degrees   27 Articulation Angle 40 degrees 40 degrees 40 degrees 40 degrees   17 10 496 kg 23,140 lb 11 220 kg 24,735 lb 11   17 10 496 kg 19,565 lb	15 Carry Height: Bucket Pin	400 mm	1'4"	400 mm	1'4"	
18 Width: Tread Center 2023 mm 6'8" 2023 mm 6'8"   19 Turning Radius: Over Bucket 6397 mm 21'0" 6112 mm 20'1"   20 Width: Over Tires 2893 mm 9'6" 2893 mm 9'6"   21 Turning Radius: Outside of Tires 5624 mm 18'5" 5624 mm 18'5"   22 Turning Radius: Inside of Tires 2743 mm 9'0" 2743 mm 9'0"   23 Rack Angle at Full Lift 54 degrees 54 degrees 54 degrees   24 Dump Angle at Full Lift 46 degrees 49 degrees 26   25 Rack Angle at Carry 42 degrees 33 degrees 33 degrees   25 Departure Angle 33 degrees 33 degrees 40 degrees   27 Articulation Angle 40 degrees 40 degrees 40 degrees   27 Articulation Angle 11 220 kg 24,735 lb 11pping Load – Straight (ISO 14397-1) 10 496 kg 23,140 lb 11 220 kg 24,735 lb   Tipping Load – Full (ISO 14397-1) 8875 kg 19,565 lb 9564 kg 21,084 lb   Nominal	16 Dig Depth	29 mm	1'1"	35 mm	1'4"	
19 Turning Radius: Over Bucket 6397 mm 21'0" 6112 mm 20'1"   20 Width: Over Tires 2893 mm 9'6" 2893 mm 9'6"   21 Turning Radius: Outside of Tires 5624 mm 18'5" 5624 mm 18'5"   22 Turning Radius: Inside of Tires 2743 mm 9'0" 2743 mm 9'0"   23 Rack Angle at Full Lift 54 degrees 54 degrees 54 degrees   24 Dump Angle at Full Lift 54 degrees 49 degrees 25   25 Rack Angle at Carry 42 degrees 33 degrees 33 degrees   25 Departure Angle 33 degrees 33 degrees 40 degrees   27 Articulation Angle 40 degrees 40 degrees 40 degrees   27 Articulation Angle 10 496 kg 23,140 lb 11 220 kg 24,735 lb   Tipping Load – Straight (ISO 14397-1) 10 496 kg 19,565 lb 9564 kg 21,084 lb   Nominal Material Density 110% Fill Factor 733 kg/m³ 1,236 lb/yd³ 1610 kg/m³ 2,714 lb/yd³   Breakout 6642 kg 14,642 lb 9628 kg	17 Width: Bucket	3062 mm		2750 mm		
20   Width: Over Tires   2893 mm   9'6"   2893 mm   9'6"     21   Turning Radius: Outside of Tires   5624 mm   18'5"   5624 mm   18'5"     22   Turning Radius: Inside of Tires   2743 mm   9'0"   2743 mm   9'0"     23   Rack Angle at Full Lift   54 degrees   54 degrees   54 degrees     24   Dump Angle at Full Lift   46 degrees   49 degrees     25   Rack Angle at Carry   42 degrees   42 degrees     26   Departure Angle   33 degrees   33 degrees     27   Articulation Angle   40 degrees   40 degrees     27   Articulation Angle   10 496 kg   23,140 lb   11 220 kg   24,735 lb     Tipping Load – Straight (ISO 14397-1)   10 496 kg   23,140 lb   11 220 kg   24,735 lb     Tipping Load – Full (ISO 14397-1)   8875 kg   19,565 lb   9564 kg   21,084 lb     Nominal Material Density 110% Fill Factor   733 kg/m³   1,236 lb/yd³   1610 kg/m³   2,714 lb/yd³     Breakout   6642 kg   14,642 lb	18 Width: Tread Center	2023 mm	6'8"	2023 mm	6'8"	
21 Turning Radius: Outside of Tires 5624 mm 18'5" 5624 mm 18'5"   22 Turning Radius: Inside of Tires 2743 mm 9'0" 2743 mm 9'0"   23 Rack Angle at Full Lift 54 degrees 54 degrees   24 Dump Angle at Full Lift 46 degrees 49 degrees   25 Rack Angle at Carry 42 degrees 42 degrees   26 Departure Angle 33 degrees 33 degrees   27 Articulation Angle 40 degrees 40 degrees   17 Articulation Angle 11 220 kg 24,735 lb   17 Tipping Load – Straight (ISO 14397-1) 10 496 kg 23,140 lb 11 220 kg 24,735 lb   17 Piping Load – Full (ISO 14397-1) 8875 kg 19,565 lb 9564 kg 21,084 lb   Nominal Material Density 110% Fill Factor 733 kg/m³ 1,236 lb/yd³ 1610 kg/m³ 2,714 lb/yd³   Breakout 6642 kg 14,642 lb 9628 kg 21,226 lb	19 Turning Radius: Over Bucket	6397 mm	21'0"	6112 mm	20'1"	
22 Turning Radius: Inside of Tires 2743 mm 9'0" 2743 mm 9'0"   23 Rack Angle at Full Lift 54 degrees 54 degrees 24   24 Dump Angle at Full Lift 46 degrees 49 degrees   25 Rack Angle at Carry 42 degrees 42 degrees   26 Departure Angle 33 degrees 33 degrees   27 Articulation Angle 40 degrees 40 degrees   27 Articulation Angle 10 496 kg 23,140 lb 11 220 kg 24,735 lb   Tipping Load – Straight (ISO 14397-1) 10 496 kg 19,565 lb 9564 kg 21,084 lb   Nominal Material Density 110% Fill Factor 733 kg/m³ 1,236 lb/yd³ 1610 kg/m³ 2,714 lb/yd³   Breakout 6642 kg 14,642 lb 9628 kg 21,226 lb	20 Width: Over Tires	2893 mm	9'6"	2893 mm	9'6"	
23 Rack Angle at Full Lift 54 degrees 54 degrees   24 Dump Angle at Full Lift 46 degrees 49 degrees   25 Rack Angle at Carry 42 degrees 42 degrees   26 Departure Angle 33 degrees 33 degrees   27 Articulation Angle 40 degrees 40 degrees   27 Articulation Angle 40 degrees 40 degrees   Tipping Load – Straight (ISO 14397-1) 10 496 kg 23,140 lb 11 220 kg 24,735 lb   Tipping Load – Full (ISO 14397-1) 8875 kg 19,565 lb 9564 kg 21,084 lb   Nominal Material Density 110% Fill Factor 733 kg/m³ 1,236 lb/yd³ 1610 kg/m³ 2,714 lb/yd³   Breakout 6642 kg 14,642 lb 9628 kg 21,226 lb	21 Turning Radius: Outside of Tires	5624 mm	18'5"	5624 mm	18'5"	
24 Dump Angle at Full Lift 46 degrees 49 degrees   25 Rack Angle at Carry 42 degrees 42 degrees   26 Departure Angle 33 degrees 33 degrees   27 Articulation Angle 40 degrees 40 degrees   17 pping Load – Straight (ISO 14397-1) 10 496 kg 23,140 lb 11 220 kg 24,735 lb   17 pping Load – Full (ISO 14397-1) 8875 kg 19,565 lb 9564 kg 21,084 lb   Nominal Material Density 110% Fill Factor 733 kg/m³ 1,236 lb/yd³ 1610 kg/m³ 2,714 lb/yd³   Breakout 6642 kg 14,642 lb 9628 kg 21,226 lb	22 Turning Radius: Inside of Tires	2743 mm	9'0"	2743 mm	9'0"	
25 Rack Angle at Carry 42 degrees 42 degrees   26 Departure Angle 33 degrees 33 degrees   27 Articulation Angle 40 degrees 40 degrees   27 Articulation Angle 23,140 lb 11 220 kg 24,735 lb   17 pping Load – Straight (ISO 14397-1) 10 496 kg 23,140 lb 11 220 kg 24,735 lb   Nominal Material Density 110% Fill Factor 733 kg/m³ 1,236 lb/yd³ 1610 kg/m³ 2,714 lb/yd³   Breakout 6642 kg 14,642 lb 9628 kg 21,226 lb	23 Rack Angle at Full Lift	54 de	54 degrees		54 degrees	
26   Departure Angle   33 degrees   33 degrees     27   Articulation Angle   40 degrees   40 degrees     Tipping Load – Straight (ISO 14397-1)   10 496 kg   23,140 lb   11 220 kg   24,735 lb     Tipping Load – Full (ISO 14397-1)   8875 kg   19,565 lb   9564 kg   21,084 lb     Nominal Material Density 110% Fill Factor   733 kg/m³   1,236 lb/yd³   1610 kg/m³   2,714 lb/yd³     Breakout   6642 kg   14,642 lb   9628 kg   21,226 lb	24 Dump Angle at Full Lift	46 de	_		49 degrees	
27   Articulation Angle   40 degrees   40 degrees     Tipping Load – Straight (ISO 14397-1)   10 496 kg   23,140 lb   11 220 kg   24,735 lb     Tipping Load – Full (ISO 14397-1)   8875 kg   19,565 lb   9564 kg   21,084 lb     Nominal Material Density 110% Fill Factor   733 kg/m³   1,236 lb/yd³   1610 kg/m³   2,714 lb/yd³     Breakout   6642 kg   14,642 lb   9628 kg   21,226 lb	25 Rack Angle at Carry	42 de	· · · · · · · · · · · · · · · · · · ·			
Tipping Load – Straight (ISO 14397-1)   10 496 kg   23,140 lb   11 220 kg   24,735 lb     Tipping Load – Full (ISO 14397-1)   8875 kg   19,565 lb   9564 kg   21,084 lb     Nominal Material Density 110% Fill Factor   733 kg/m³   1,236 lb/yd³   1610 kg/m³   2,714 lb/yd³     Breakout   6642 kg   14,642 lb   9628 kg   21,226 lb	26 Departure Angle	33 de	<u> </u>		33 degrees	
Tipping Load – Full (ISO 14397-1)   8875 kg   19,565 lb   9564 kg   21,084 lb     Nominal Material Density 110% Fill Factor   733 kg/m³   1,236 lb/yd³   1610 kg/m³   2,714 lb/yd³     Breakout   6642 kg   14,642 lb   9628 kg   21,226 lb	27 Articulation Angle	40 de	40 degrees		40 degrees	
Nominal Material Density 110% Fill Factor   733 kg/m³   1,236 lb/yd³   1610 kg/m³   2,714 lb/yd³     Breakout   6642 kg   14,642 lb   9628 kg   21,226 lb	Tipping Load – Straight (ISO 14397-1)	10 496 kg	23,140 lb	11 220 kg	24,735 lb	
Breakout 6642 kg 14,642 lb 9628 kg 21,226 lb	Tipping Load – Full (ISO 14397-1)	8875 kg	19,565 lb	9564 kg	21,084 lb	
	Nominal Material Density 110% Fill Factor	733 kg/m <sup>3</sup>	1,236 lb/yd3	1610 kg/m <sup>3</sup>	2,714 lb/yd3	
Operating Weight 15 803 kg 34,839 lb 15 277 kg 33,678 lb	Breakout	6642 kg	14,642 lb	9628 kg	21,226 lb	
	Operating Weight	15 803 kg	34,839 lb	15 277 kg	33,678 lb	

Dimensions listed are for a standard lift machine configured with standard counterweight, powertrain guard, 80 kg (176 lb) operator and 750/65R26 agricultural tires.

# STANDARD EQUIPMENT

#### **POWER TRAIN**

- Auto idle shut down feature
- Axles high torque
  - Differential lock, front
  - Open, rear
- Cat C7.1 ACERT engine
  - Engine meets Brazil MAR-1 emission standards, equivalent to Tier 3/Stage IIIA
  - Power modes (Standard and Performance)
  - Power by range (High Power in Range 4)
  - Turbocharged and aftercooled
  - Filtered crankcase breather
- Coded start (requires secondary display)
- Enclosed wet disc full hydraulic brakes
- Fuel priming pump, automatic
- Hydrostatic transmission with electronic control
  - Operator modes (Default, TC, Hystat, and Ice)
  - Directional Shift Aggressiveness (fast, medium, slow)
  - Rimpull control, adjust wheel torque
  - Creeper control, adjust ground speed
- Parking brake, electric
- Single plane cooling package wide six fins per inch density
- Throttle lock and max speed limiter
- High flotation 750/65R26 agriculture tires

## **OPTIONAL EQUIPMENT**

- Auto lube, integrated in secondary display
- Auxiliary flow, third and fourth function, adjustable through secondary display
- Beacon light, strobe
- Cab
  - Secondary display to enable features and adjust parameters
  - Sunscreen, front and rear
- Camera, rearview
- Cat Production Measurement (CPM) fully integrated scale system, with optional printer
- Cold start package

NOTE: Not all features are available in all regions.

#### **HYDRAULICS**

- Automatic lift and bucket kickouts. adjustable in-cab
- Bucket and fork modes, adjustable in-cab
- Cylinder damping at kickout and mechanical end stops
- Fine mode control (fast, medium, slow) in fork mode
- Hydraulic response setting (fast, medium, slow)
- Hydraulic diagnostic connectors and S·O·S<sup>™</sup> ports
- Load sensing hydraulics and steering

### ELECTRICAL

- Alternator, 115 amp, heavy duty
- 12V power supply in cab (2)
- Batteries, 1,000 CCA (2) 24V system, disconnect switch
- Back-up alarm
- Emergency shutdown switch
- Halogen work and roading lights, LED rear tail lights
- Remote jump start post
- Resettable main and critical function breakers

#### **OPERATOR ENVIRONMENT**

- 75 mm (3 in) retractable seat belt, with audible alarm and indicator
- Automatic temperature control
- External mirrors with lower parabolic
- Hydraulic control lockout
- Interior cab lighting, door and dome
- Interior rearview mirrors (2)
- Lunch box storage
- Radio ready speakers
- Rear window defrost, electric
- Seat-mounted electronic implement controls, adjustable
- Column mounted multi function control -lights, wipers, turn signal
- Tilt and telescopic steering wheel
- Tinted front glass
- Wet arm wiper/washer, 2-speed and intermittent, front

## **OTHER STANDARD EQUIPMENT**

- Debris package (medium)
  - Reversing fan, hydraulically driven on-demand
  - Cyclonic engine air precleaner
- Large-access enclosure doors with adjustable close/open force
- Parallel lift loader linkage
- Corrosion protection package
- Counterweight, (heavy and logger)
- Guarding, machine
- Lights, auxiliary, halogen or LED with engine compartment lights
- Cat DETECT with Object Detection
- Product Link<sup>™</sup> PRO and ELITE with capabilities for software push, data logging, histogram and trend mapping
- Ride Control System, adjustable through secondary display

- Seats
  - Deluxe seat fully adjustable fabric air suspension seat with mid backrest and mechanical lumbar support
  - Premium seat fully adjustable leather and fabric air suspension with high backrest and air lumbar support. Seat is heated and ventilated on bottom cushion and backrest.
- Steering
  - Dual mode and secondary



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AEHQ8046-02 (06-2020) Replaces AEHQ8046-01 (SAm)



- Radio packages