



Cat[®] 627K

WHEEL TRACTOR-SCRAPER

MAIN FEATURES AND BENEFITS:

- **Tractor Serviceability Improvement** – The filter bank located at the rear of the engine compartment has undergone improvements for serviceability by raising the filter bank up for easier access.
- **Engine Over Speed Protection** – In the event of an engine over speed situation, the compression brake or brakes will automatically engage with no operator input. The machine determines the over speed condition based on rate of acceleration and applies compression brakes automatically.
- **Fuel Economy Mode** – Fuel Economy Mode is a two part feature when selected, the first part of the feature lowers the transmission shift points allowing shifting to take place at lower rpms to aid in fuel savings. The second part of the Fuel Economy Mode allows the machine when operated at engine rpms less than full throttle to automatically vary the power distribution between the tractor and the scraper, allowing the machine to utilize the more efficient tractor power train vs. the full time torque converter drive scraper power train.
- **Advanced Cushion Hitch** – With similar technology as the Cat[®] Advanced Ride Management seat suspension, this software allows the cushion hitch to prevent end stroke by having the ability to predict end stroke events and manage the rate of dampening. The desired result is improved hitch repair, reduced maintenance and improved operator ride in rough conditions.
- **High Pressure Steering** – The K Series steering system design requires significantly less steering effort. The reduced steering effort will allow for decreased operator fatigue and a more efficient operator resulting in possible higher rates of production late in the work cycle.
- **Draft Arm Overflow Guards** – The open bowls now come standard with bowl side overflow guards to help prevent material from flowing over the bowl sides and falling onto the draft arms where material becomes lodged between the bowl side and draft arm resulting in decreased work cycle times.
- **Auto Stall** – In cold weather conditions the machine will use the Auto Stall feature to help warm up the transmission oil faster resulting in the machine shifting out of torque converter drive (2nd gear) faster than on previous models.
- **Differential Lock Engagement Protection (Standard)** – This standard feature allows the machine to prevent the operator from engaging the differential lock when damage could occur.
- **Cab Improved** – The interior of the K Series cabs has improved the operator comfort and visibility by redesigning the dash area and key pad placement.
- **Machine Speed Limit** – This feature is designed to take the place of top gear selection. If the machine top speed needs to be limited the operator can select the top speed through the display or the top speed can be set in ET. This will allow the machine to find the correct gear that works best for the engine and transmission. Allowing the engine and transmission to select the correct gear to pull the load in most cases resulting in a lower engine load factor and lower fuel burn verses using top gear selection that required the machine to run at engine speeds at or close high idle.
- **Ground Speed Control** – Ground Speed Control sets the desired top speed by the operator if job site conditions or segment speed limits require a speed less than full run out. Machine Speed Limit is intended for use when top speed needs to be limited for longer durations and Ground Speed Control is intended for use when the top speed needs to be reduced for shorter segments or intermediate periods of time. The operator can set the desired top speed and the machine will find the correct gear that works best for the engine and transmission. Allowing the engine and transmission to select the correct gear to pull the load in most cases will result in a lower engine load factor and lower fuel burn verses top gear selection.

Specifications

General Data

Fuel Tank Refill Capacity: Scraper	1272 L	336 U.S. gal	Width of Cut	3.14 m	10'4"
Overall Width	3.57 m	11'7"	Maximum Depth of Cut	315 mm	12.4"
Overall Shipping Height	4.03 m	13'2"	Maximum Depth of Spread	540 mm	21.3"
Scraper Capacity:			Top Speed (Loaded)	53.9 km/h	33.5 mph
Struck	13 m ³	17.1 yd ³	180° Curb-to-Curb Turning Width	11.8 m	38'7"
Heaped	18.4 m ³	24 yd ³	Tires:		
Rated Load	26 127 kg	57,610 lb	Tractor Drive	33.25R29**E3	
	26.19 tonnes	28.81 tons	Scraper	33.25R29**E3	

627K Wheel Tractor-Scraper

Non Push-Pull

Operating Weight (Empty)	40 913 kg	90,213 lb
Overall Length	14.02 m	45'10"

Push-Pull

Operating Weight (Empty)	42 168 kg	92,980 lb
Overall Length (With Bail Down)	15.58 m	51'1"

Engine

Engine Model:		
Tractor	Cat C13 ACERT™	
Scraper	Cat C9.3 ACERT	
Rated Engine RPM:		
Tractor	2,000 rpm	
Scraper	2,150 rpm	
Flywheel Power:		
Tractor	304 kW	407 hp
Scraper	216 kW	290 hp

- Cat C9.3 ACERT and Cat C13 ACERT engines meet U.S. Environmental Protection Agency (EPA) Tier 4 Final/EU Stage IV engine emission standards.

Cab

ROPS/FOPS	Meets SAE and ISO standards
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- The exterior sound power level for the standard machine (ISO 6393) is 116 dB(A).

Safety Criteria Compliance Standards

Rollover Protection Structure (ROPS)	ISO 3471:2008 for up to 17 084 kg (37,664 lb)
Falling Object Protective Structure (FOPS)	ISO 3449:2005 Level II
Brakes	ISO 3450:1996
Steering System	ISO 5010:2007
Seat Belt	SAE J386:JUN1985
Reverse Alarm	ISO 9533:2010

Travel Speeds (Runout)

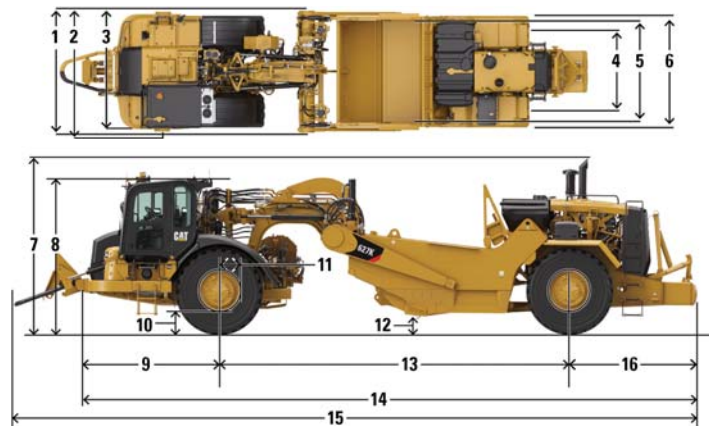
Transmission Gear:		
First	5.0 km/h	3.1 mph
Second	8.9 km/h	5.5 mph
Third	12.1 km/h	7.5 mph
Fourth	16.3 km/h	10.1 mph
Fifth	21.9 km/h	13.6 mph
Sixth	29.6 km/h	18.4 mph
Seventh	39.9 km/h	24.8 mph
Eighth	53.9 km/h	33.5 mph
Reverse	9.2 km/h	5.7 mph

Implement Cycle Times

Bowl Raise	3.0 seconds
Bowl Lower	3.5 seconds
Apron Raise	2.95 seconds
Apron Lower	3.8 seconds
Ejector Extend	5.2 seconds
Ejector Retract	6.7 seconds
Bail Raise	1.8 seconds
Bail Lower	3.2 seconds

Service Refill Capacities

Crankcase:		
Tractor	30.58 L	8.08 gal
Scraper	28 L	7.3968 gal
Transmission System:		
Tractor	93 L	24.76 gal
Scraper	49 L	12.944 gal
Cooling System:		
Tractor	45 L	11.89 gal
Scraper	61 L	16.114 gal
Fuel Tank	1272 L	336.03 gal
Hydraulic System	83 L	21.926 gal
Diesel Exhaust Fluid		
Tractor	30.5 L	8.0572 gal
Scraper	21 L	5.55 gal



Dimensions

	627K	
	mm	in
1 Width – Overall Machine	3585	141.1
2 Width – Overall Machine – Ladder Down	3790	149.2
3 Width – Tractor	3381	133.1
4 Width – Rear Tire Centers	2290	90.2
5 Width – Inside of Bowl	3048	120.0
6 Width – Outside Rear Tires	3275	128.9
7 Height – Overall Shipping	4029	158.6
8 Height – Top of Cab	3621	142.6
9 Front of Tractor to Front Axle	3119	122.8
10 Ground Clearance – Tractor	557	21.9
11 Axle to Vertical Hitch Pin	540	21.3
12 Height – Scraper Blade Maximum	520	20.5
13 Wheelbase	7998	314.9
14 Length – Overall Machine (Standard)	14 015	551.8
15 Length – Maximum (Push-Pull)	15 576	613.2
16 Rear Axle to Rear of Machine	2898	114.1

STANDARD EQUIPMENT

POWER TRAIN – TRACTOR

- Cat C13 ACERT engine with MEUI™
- Cat engine brake
- Electric start, 24 Volt
- Air cleaner, dry type with precleaner
- Fan, hydraulic
- Ground level engine shutdown
- Radiator, aluminum unit core, 9 fins per inch
- Guard, crankcase
- Muffler (only for less or non-regulated regions engine arrangement only)
- Starting aid, ether
- Braking system:
 - Primary and secondary, wet disc, hydraulic
 - Parking, hydraulic-released, spring-applied
 - Throttle lock
- Transmission:
 - 8-speed planetary power shift
 - ECPC control
 - APECS software
 - Programmable top gear selection
 - Transmission hold
 - Differential lock
 - Guard, power train
 - Standard tire spin reduction
 - Ground speed control
 - Machine speed limit
 - Differential lock protection

POWER TRAIN – SCRAPER

- Cat C9.3 ACERT engine with high pressure:
 - Common rail fuel
 - Cat engine brake
 - Electric start, 24 volt
 - Fan, driveline
 - Ground engine shutdown
 - Muffler (only for less or non-regulated regions engine arrangement only)
 - Starting aid, ether
- Braking system:
 - Primary and secondary, wet disc, hydraulic
 - 4 speed (torque converter drive)
 - Transmission planetary powershift

ELECTRICAL – TRACTOR

- Alternator, 150 Amp
- Batteries (4), 12V, 1,000 CCA, maintenance free, high output
- Electrical system, 24V
- Lighting system:
 - Headlights, 3×3 halogen
 - Turn signals with hazard function, LED floodlights, (2) 3×3 cutting edge (1) 3×3 bowl, halogen side vision (2) 3×3 halogen
- Starting/charging receptacle

ELECTRICAL – SCRAPER

- Alarm, backup
- Alternator, 65 Amp
- Batteries (4), 12V, 1,000 CCA, maintenance free, high output
- Lighting system:
 - Brake lights, LED
 - Turn signals with hazard function, LED
- Starting/charging receptacle

OPERATOR ENVIRONMENT – TRACTOR

- HVAC system, heat, AC, defrost
- Thermostat control of HVAC system
- Coat hook
- Lunchbox platform with holding strap
- Diagnostic connection (2)
- 12V power ports (2)
- Differential lock (1)
- Dome courtesy light
- Horn, electric
- T-Handle implement control
- Mirror, rearview
- Radio ready
- ROPS/FOPS cab, pressurized
- Keypad switches:
 - Rear engine start
 - Throttle lock
 - Wipers/washers
 - Hazard lights
 - Retarding level select
 - Work lights on, off
 - Information mode on Messenger Display
- Safety tab rocker switches:
 - Regeneration control (Tier 4 Final/EU Stage IV only)
 - Parking brake
- Seat belt, static two-piece
- Seat, Cat Advanced Ride Management (ARM), Cat Comfort Series 3, rotates 30 degrees
- Steering wheel, tilt, telescoping, padded
- Windows, right side emergency egress
- Windows, sliding
- Windows, laminated, zipped in
- Windshield wipers, front and rear windows, includes washers
- Door lock
- Messenger Display

- Gauges, warnings include:
 - Coolant temperature
 - Engine oil temperature
 - Hydraulic oil temperature
 - DPF temperature
 - Fuel level
 - Park brake
 - Implement lockout
 - Brake system
 - Regeneration required
 - Throttle lock
 - System voltage
 - Secondary steering
 - Bail down
 - Differential lock
 - Apron float
 - Transmission hold
 - Cushion hitch
 - High beam lights
 - Action lamp
 - Engine speed, rpm
 - Gear selection
 - DEF fill levels

FLUIDS

- Extended Life Coolant to -37° C (-34° F)

OTHER STANDARD EQUIPMENT – TRACTOR

- Advanced cushion hitch
- Accumulators (cushion hitch) with Canadian Registration Number (CRN)
- Fast oil change
- Fenders, non-metallic
- Heater, engine coolant 120V
- Rims (2)
- Tow pin, front
- Vandalism locks
- Heater, engine coolant 120V

OTHER STANDARD EQUIPMENT – SCRAPER

- Bowl
 - 18.4 m³ (24 yd³), heaped
 - 14.1 m³ (18.4 yd³), struck
 - Fast oil change
 - Vandalism locks
 - Guard, overflow
 - Heater, engine coolant 120V
- Hydraulic position sensing cylinders (bowl lift and apron)

SPECIAL ARRANGEMENTS

- Tractor/Scraper Arrangements
 - Push Pull Arrangement
- Fueling Arrangements
 - Fast Fill Group

627K Wheel Tractor-Scraper

OPTIONAL ATTACHMENTS

STEERING ARRANGEMENTS

- Secondary Steering Arrangement

INTEGRATED TECHNOLOGIES

- Sequence Assist Arrangement
- Load Assist
- Cat Grade Control with Load Assist
- Product Link™ Installation

OTHER ATTACHMENTS

- Camera arrangement – WAVS
- Steering lock – external
- Cab beacon
- Air horn
- Air horn and beacon
- Fender, scraper
- Wiring group

WORK LIGHT ATTACHMENTS

- HID work lights

AMBIENT CAPABILITY ARRANGEMENTS

- Cooling, high ambient HRC
- Cooling, low ambient HRC
- Cooling, high ambient LRC
- Cooling, low ambient LRC

CLEANER

- Cab precleaner

OTHER ATTACHMENTS

- Year of manufacture plate

SERVICE INSTRUCTIONS

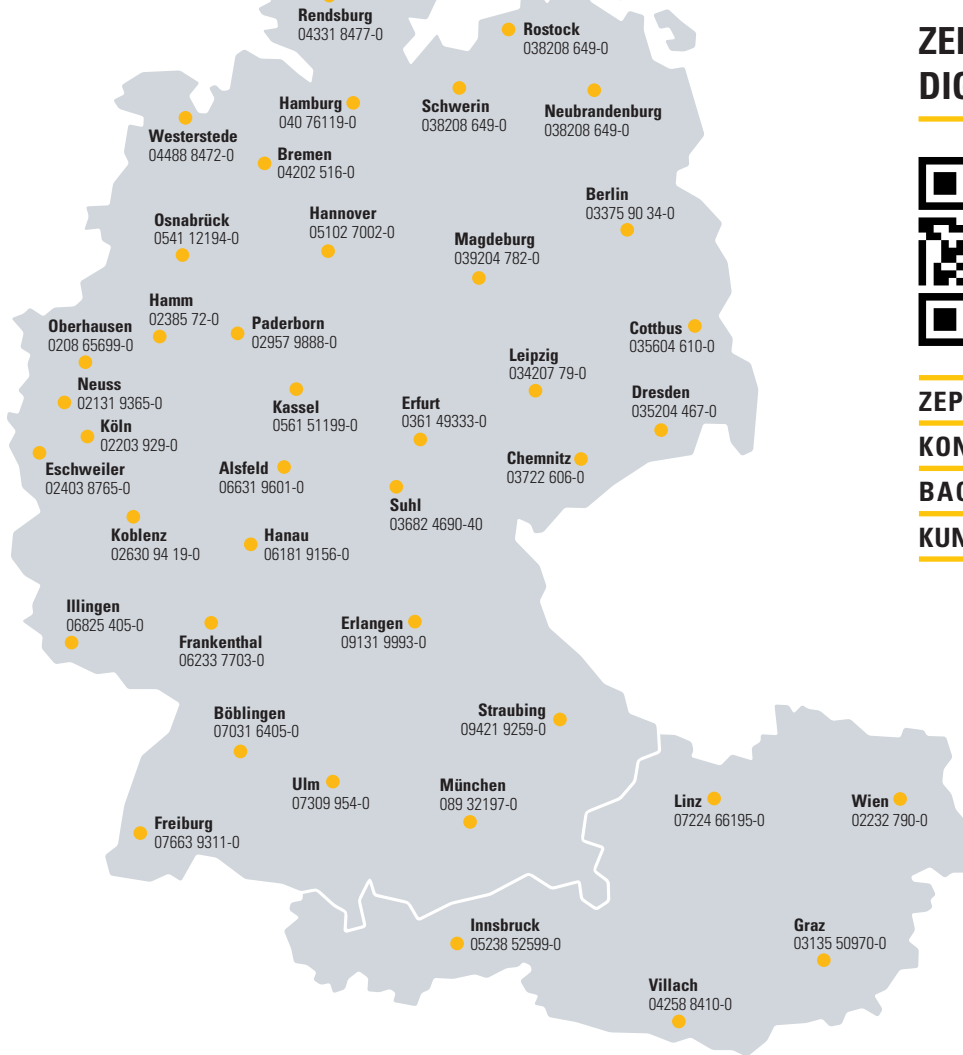
- Film arrangement – U.S. (ANSI)
- Film arrangement – International (ISO)

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Zeppelin Baumaschinen GmbH
 Graf-Zeppelin-Platz 1 · 85748 Garching bei München
 Tel. 089 32000-0 · zeppelin-cat@zeppelin.com
zeppelin-cat.de

Zeppelin Österreich GmbH
 Zeppelinstraße 2 · 2401 Fischamend bei Wien
 Tel. 02232 790-0 · info.at@zeppelin.com
zeppelin-cat.at

Weitere Informationen zu Cat-Produkten, Händler-Service und Industrielösungen finden Sie auf unserer Website unter www.cat.com

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