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.

- **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** – 620K 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 | 763 L | 201 U.S. gal |
| Overall Width | 3.57 m | 11’7” |
| Overall Shipping Height | 4.03 m | 13’2” |
| Scraper Capacity: | | |
| Struck | 13 m³ | 17.1 yd³ |
| Heaped | 18.4 m³ | 24 yd³ |
| Rated Load | 26 127 kg | 57,610 lb |
| | 26.19 tonnes | 28.81 tons |
| Width of Cut | 3.14 m | 10’4” |
| Maximum Depth of Cut | 315 mm | 12.4” |
| Maximum Depth of Spread | 540 mm | 21.3” |
| Top Speed (Loaded) | 53.9 km/h | 33.5 mph |
| 180° Curb-to-Curb Turning Width | 11.8 m | 38’7” |
| Tires: | | |
| Tractor Drive | 33.25R29**E3 |
| Scraper | 33.25R29**E3 |

#### Non Push-Pull

| Operating Weight (Empty) | 36 185 kg | 79,787 lb |
| Overall Length | 14.02 m | 45’10” |

#### Push-Pull

| Operating Weight (Empty) | 36 567 kg | 80,630 lb |
| Overall Length (With Bail Down) | 15.58 m | 51’1” |

#### Engine

| Engine Model: Tractor | Cat C13 ACERT™ |
| Rated Engine RPM: Tractor | 2,000 rpm |
| Flywheel Power: Tractor | 304 kW | 407 hp |

- Cat C13 ACERT engine meets U.S. Environmental Protection Agency (EPA) Tier 4 Final/EU Stage IV engine emission standards.
621K Wheel Tractor-Scraper

Cab

- ROPS/FOPS Meets SAE and ISO standards

- The exterior sound power level for the standard machine (ISO 6393) is 111.5 dB(A).

Safety Criteria Compliance Standards

<table>
<thead>
<tr>
<th>Safety Criteria</th>
<th>Compliance Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rollover Protection Structure (ROPS)</td>
<td>ISO 3471:2008 for up to 17,084 kg (37,664 lb)</td>
</tr>
<tr>
<td>Falling Object Protective Structure (FOPS)</td>
<td>ISO 3449:2005 Level II</td>
</tr>
<tr>
<td>Brakes</td>
<td>ISO 3450:1996</td>
</tr>
<tr>
<td>Steering System</td>
<td>ISO 5010:2007</td>
</tr>
<tr>
<td>Seat Belt</td>
<td>SAE J386:JUN1985</td>
</tr>
<tr>
<td>Reverse Alarm</td>
<td>ISO 9533:2010</td>
</tr>
</tbody>
</table>

Travel Speeds (Runout)

<table>
<thead>
<tr>
<th>Transmission Gear</th>
<th>km/h</th>
<th>mph</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>5.0</td>
<td>3.1</td>
</tr>
<tr>
<td>Second</td>
<td>8.9</td>
<td>5.5</td>
</tr>
<tr>
<td>Third</td>
<td>12.1</td>
<td>7.5</td>
</tr>
<tr>
<td>Fourth</td>
<td>16.3</td>
<td>10.1</td>
</tr>
<tr>
<td>Fifth</td>
<td>21.9</td>
<td>13.6</td>
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<tr>
<td>Sixth</td>
<td>29.6</td>
<td>18.4</td>
</tr>
<tr>
<td>Seventh</td>
<td>39.9</td>
<td>24.8</td>
</tr>
<tr>
<td>Eighth</td>
<td>53.9</td>
<td>33.5</td>
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<tr>
<td>Reverse</td>
<td>9.2</td>
<td>5.7</td>
</tr>
</tbody>
</table>

Implement Cycle Times

<table>
<thead>
<tr>
<th>Cycle Time</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bowl Raise</td>
<td>3.0 seconds</td>
</tr>
<tr>
<td>Bowl Lower</td>
<td>3.5 seconds</td>
</tr>
<tr>
<td>Apron Raise</td>
<td>2.95 seconds</td>
</tr>
<tr>
<td>Apron Lower</td>
<td>3.8 seconds</td>
</tr>
<tr>
<td>Ejector Extend</td>
<td>5.2 seconds</td>
</tr>
<tr>
<td>Ejector Retract</td>
<td>6.7 seconds</td>
</tr>
<tr>
<td>Bail Raise</td>
<td>1.8 seconds</td>
</tr>
<tr>
<td>Bail Lower</td>
<td>3.2 seconds</td>
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</tbody>
</table>

Service Refill Capacities

<table>
<thead>
<tr>
<th>Refill Capacity</th>
<th>L</th>
<th>gal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crankcase</td>
<td>30.58</td>
<td>8.08</td>
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<tr>
<td>Transmission System</td>
<td>93</td>
<td>24.76</td>
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<tr>
<td>Cooling System</td>
<td>45</td>
<td>11.89</td>
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<tr>
<td>Fuel Tank</td>
<td>818</td>
<td>216.09</td>
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<tr>
<td>Hydraulic System</td>
<td>83</td>
<td>21.926</td>
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<tr>
<td>Diesel Exhaust Fluid</td>
<td>30.5</td>
<td>8.0572</td>
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</table>

Dimensions

<table>
<thead>
<tr>
<th>621K</th>
<th>mm</th>
<th>in</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Width – Overall Machine</td>
<td>3585</td>
<td>141.1</td>
</tr>
<tr>
<td>2 Width – Overall Machine – Ladder Down</td>
<td>3790</td>
<td>149.2</td>
</tr>
<tr>
<td>3 Width – Tractor</td>
<td>3381</td>
<td>133.1</td>
</tr>
<tr>
<td>4 Width – Rear Tire Centers</td>
<td>2290</td>
<td>90.2</td>
</tr>
<tr>
<td>5 Width – Inside of Bowl</td>
<td>3048</td>
<td>120.0</td>
</tr>
<tr>
<td>6 Width – Outside Rear Tires</td>
<td>3275</td>
<td>128.9</td>
</tr>
<tr>
<td>7 Height – Overall Shipping</td>
<td>4029</td>
<td>158.6</td>
</tr>
<tr>
<td>8 Height – Top of Cab</td>
<td>3612</td>
<td>142.2</td>
</tr>
<tr>
<td>9 Front of Tractor to Front Axle</td>
<td>3119</td>
<td>122.8</td>
</tr>
<tr>
<td>10 Ground Clearance – Tractor</td>
<td>557</td>
<td>21.9</td>
</tr>
<tr>
<td>11 Axle to Vertical Hitch Pin</td>
<td>540</td>
<td>21.3</td>
</tr>
<tr>
<td>12 Height – Scraper Blade Maximum</td>
<td>520</td>
<td>20.5</td>
</tr>
<tr>
<td>13 Wheelbase</td>
<td>7998</td>
<td>314.9</td>
</tr>
<tr>
<td>14 Length – Overall Machine (Standard)</td>
<td>14 015</td>
<td>551.8</td>
</tr>
<tr>
<td>15 Length – Maximum (Push-Pull)</td>
<td>15 576</td>
<td>613.2</td>
</tr>
<tr>
<td>16 Rear Axle to Rear of Machine</td>
<td>2898</td>
<td>114.1</td>
</tr>
</tbody>
</table>
**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**
- Braking system:
  - Primary and secondary, wet disc, hydraulic

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

**ELECTRICAL – SCRAPER**
- Alarm, backup
- Lighting system:
  - Brake lights, LED
  - Turn signals with hazard function, LED

**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:
  - Throttle lock
  - Wipers/washers
  - Hazard lights
  - Retarding level select
  - Work lights on, off
  - Information mode on Messenger Display
- Safety tab rocker switches
- 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

**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
- Vandalism locks
- Hydraulic position sensing cylinders (bowl lift and apron)
### Optional Attachments

<table>
<thead>
<tr>
<th>Steering Arrangements</th>
<th>Other Attachments</th>
<th>Ambient Capability Arrangements</th>
</tr>
</thead>
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<tr>
<td>Secondary Steering Arrangement</td>
<td>Camera arrangement – WAVS</td>
<td>Cooling, high ambient HRC</td>
</tr>
<tr>
<td></td>
<td>Steering lock – external</td>
<td>Cooling, low ambient HRC</td>
</tr>
<tr>
<td></td>
<td>Cab beacon</td>
<td>Cooling, high ambient LRC</td>
</tr>
<tr>
<td></td>
<td>Air horn</td>
<td>Cooling, low ambient LRC</td>
</tr>
<tr>
<td></td>
<td>Air horn and beacon</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fender, scraper</td>
<td></td>
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<tr>
<td></td>
<td>Guard, overflow</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wiring group</td>
<td></td>
</tr>
<tr>
<td>INTEGRATED TECHNOLOGIES</td>
<td>WORK LIGHT ATTACHMENTS</td>
<td></td>
</tr>
<tr>
<td>Sequence Assist Arrangement</td>
<td>HID work lights</td>
<td></td>
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<tr>
<td>Load Assist</td>
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<tr>
<td>Cat Grade Control with Load Assist</td>
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</tbody>
</table>

**Other Attachments**

- Secondary Steering Arrangement
- Camera arrangement – WAVS
- Steering lock – external
- Cab beacon
- Air horn
- Air horn and beacon
- Fender, scraper
- Guard, overflow
- 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