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**

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Tank Refill Capacity: Scraper</td>
<td>1272 L</td>
</tr>
<tr>
<td>Overall Width</td>
<td>3.57 m</td>
</tr>
<tr>
<td>Overall Shipping Height</td>
<td>4.03 m</td>
</tr>
<tr>
<td>Scraper Capacity:</td>
<td></td>
</tr>
<tr>
<td>Struck</td>
<td>13 m³</td>
</tr>
<tr>
<td>Heaped</td>
<td>18.4 m³</td>
</tr>
<tr>
<td>Rated Load</td>
<td>26.127 kg</td>
</tr>
<tr>
<td>Maximum Depth of Cut</td>
<td>3.14 m</td>
</tr>
<tr>
<td>Maximum Depth of Spread</td>
<td>4.03 m</td>
</tr>
<tr>
<td>Top Speed (Loaded)</td>
<td>17.1 yd³</td>
</tr>
<tr>
<td>180° Curb-to-Curb Turning Width</td>
<td>13 m³</td>
</tr>
<tr>
<td>Tires:</td>
<td></td>
</tr>
<tr>
<td>Tractor Drive</td>
<td>315 mm</td>
</tr>
<tr>
<td>Scraper</td>
<td>540 mm</td>
</tr>
<tr>
<td>Width of Cut</td>
<td>11’4”</td>
</tr>
<tr>
<td>Maximum Depth of Spread</td>
<td>21’3”</td>
</tr>
<tr>
<td>Top Speed (Loaded)</td>
<td>33.5 mph</td>
</tr>
<tr>
<td>180° Curb-to-Curb Turning Width</td>
<td>38’7”</td>
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<tr>
<td>Tires:</td>
<td></td>
</tr>
<tr>
<td>Tractor Drive</td>
<td>33.25R29**E3</td>
</tr>
<tr>
<td>Scraper</td>
<td>33.25R29**E3</td>
</tr>
</tbody>
</table>
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

• 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

<table>
<thead>
<tr>
<th>627K</th>
<th>mm</th>
<th>in</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Width – Overall Machine</td>
<td>3585</td>
</tr>
<tr>
<td>2</td>
<td>Width – Overall Machine – Ladder Down</td>
<td>3790</td>
</tr>
<tr>
<td>3</td>
<td>Width – Tractor</td>
<td>3381</td>
</tr>
<tr>
<td>4</td>
<td>Width – Rear Tire Centers</td>
<td>2290</td>
</tr>
<tr>
<td>5</td>
<td>Width – Inside of Bowl</td>
<td>3048</td>
</tr>
<tr>
<td>6</td>
<td>Width – Outside Rear Tires</td>
<td>3275</td>
</tr>
<tr>
<td>7</td>
<td>Height – Overall Shipping</td>
<td>4029</td>
</tr>
<tr>
<td>8</td>
<td>Height – Top of Cab</td>
<td>3621</td>
</tr>
<tr>
<td>9</td>
<td>Front of Tractor to Front Axle</td>
<td>3119</td>
</tr>
<tr>
<td>10</td>
<td>Ground Clearance – Tractor</td>
<td>557</td>
</tr>
<tr>
<td>11</td>
<td>Axle to Vertical Hitch Pin</td>
<td>540</td>
</tr>
<tr>
<td>12</td>
<td>Height – Scraper Blade Maximum</td>
<td>520</td>
</tr>
<tr>
<td>13</td>
<td>Wheelbase</td>
<td>7998</td>
</tr>
<tr>
<td>14</td>
<td>Length – Overall Machine (Standard)</td>
<td>14,015</td>
</tr>
<tr>
<td>15</td>
<td>Length – Maximum (Push-Pull)</td>
<td>15,576</td>
</tr>
<tr>
<td>16</td>
<td>Rear Axle to Rear of Machine</td>
<td>2898</td>
</tr>
</tbody>
</table>
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, 3x3 halogen
  - Turn signals with hazard function, LED floodlights, (2) 3x3 cutting edge (1) 3x3 bowl, halogen side vision (2) 3x3 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
  - 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
- OPERATOR ENVIRONMENT – 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
- 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)
Mit unseren rund 40 Niederlassungen in Deutschland und Österreich sind wir immer in der Nähe Ihres Standortes oder Ihrer Baustelle. Der Zeppelin Service steht Ihnen rund um die Uhr zur Verfügung. Wir liefern 98 % aller Ersatzteile innerhalb von 24 Stunden.

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