

# 963K WH

Waste Handler Track Loader



## Engine

Engine Model	Cat® C7.1 ACERT™	
Engine Power (Maximum) – ISO 14396	165 kW	221 hp
Engine Power (Maximum) – ISO 14396 (DIN)		224 hp
Net Power (Rated) – ISO 9249/SAE J1349	144 kW	193 hp
Net Power (Rated) – ISO 9249/SAE J1349 (DIN)		196 hp

## Buckets

Capacity – Landfill	3.1 m <sup>3</sup>	4.05 yd <sup>3</sup>
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## Weights

Operating Weight	21 100 kg	46,518 lb
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## 963K Waste Handler

### Fuel Efficiency

A more fuel efficient Cat C7.1 ACERT engine and Eco Mode combine to give you a 10-30 percent reduction in fuel use.\*

### Performance

Smarter power train management gives you power when you need it and improved implement and steering response.\*

### Ease of Operation

Cab updates offer added comfort and convenience for operators. New handles and steps make access/egress even easier from the front or the back of the tracks.

### Technology

Remote monitoring with Product Link™/ VisionLink® helps you manage your fleet more effectively and profitably.

\*Compared to the 963D.



## Contents

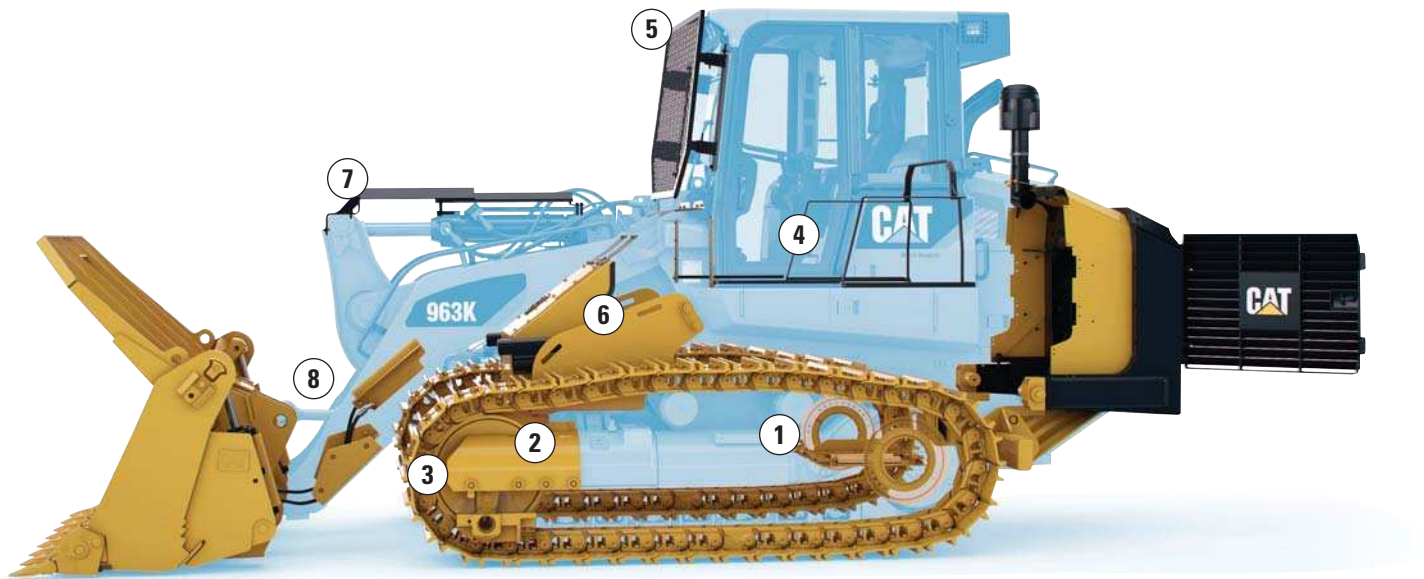
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From loading to sorting to excavation and spreading cover material, the track loader is one of the most versatile pieces of equipment in your landfill or transfer station. The Waste Handling Arrangement features added guarding and seals to give you a machine that is purpose built to take on the challenges of waste applications. A choice of buckets and track shoes allow you to further optimize the machine for greater performance and service life. The new 963K offers added fuel efficiency over the previous model, as well as greater comfort and improved implement and steering response. The 963K meets U.S. EPA Tier 4 Final/EU Stage IV/Korea Tier 4 emission standards.



# 963K Waste Handler Features

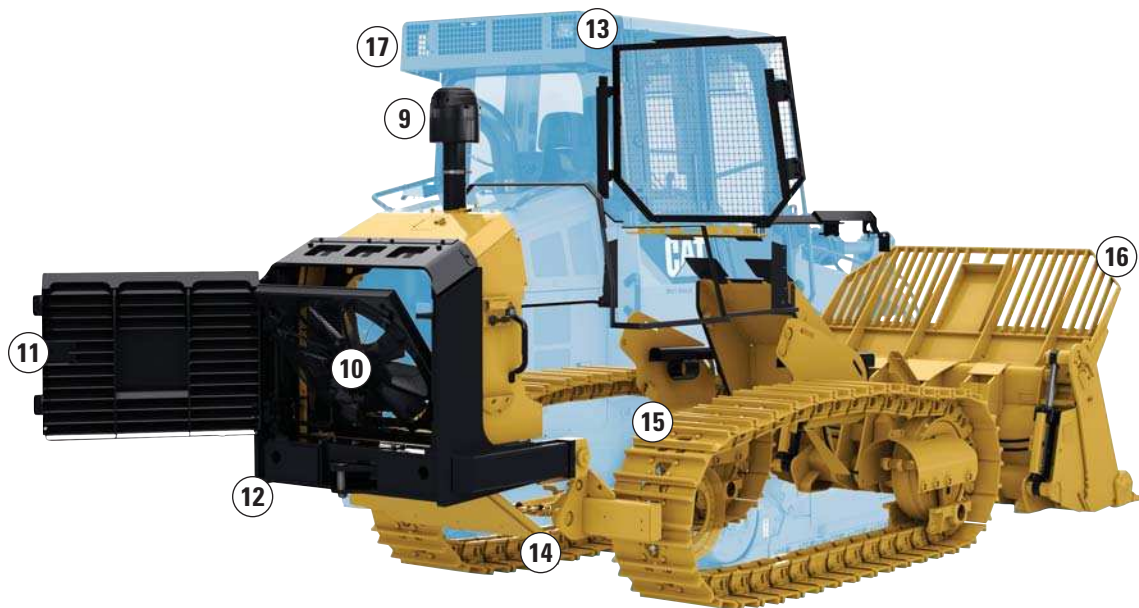
Purpose-built for performance



- 1 Final drive seal guards feature a metallic outside ring welded to the final drive to help protect seals from damage due to wrapping of wire or plastic.
- 2 Idler guards protect and limit the entry of debris to the tensioning system. Includes scrapers mounted around idler.
- 3 Idler with seal protection has steel rings integrated into the idler design. Helps keep wire, strapping, etc. from damaging the Duo-Cone™ seals.
- 4 Engine compartment seals limit debris entry and plugging of radiator core. Gaps sealed between sheet metal and other components for added protection.
- 5 Windshield screen helps protect windshield and operator from breakage and debris.
- 6 Guarding helps protect lift lines coming out of the chassis and lift cylinder hydraulic tube.
- 7 Tilt cylinder guard helps protect rod surface from damage by falling debris.
- 8 Guarding helps protect bucket hydraulic lines from damage.

# 963K Waste Handler Features

Purpose-built for performance



- ⑨ Turbine precleaner reduces particles coming into the engine air inlet for extended engine filter life.
- ⑩ Hydraulic reversible fan purges debris from the radiator and engine compartment air inlets by reversing the airflow. Limits radiator plugging, increases maintenance interval.
- ⑪ Radiator fan folds out for easier cleaning/maintenance access to fan and radiator. Angled louvers direct air upward away from the ground.
- ⑫ Heavy duty rear bumper offers optimal protection to the back of the machine – especially the cooling system. Includes a heavy duty grill with latch for quick opening, as well as a hitch.
- ⑬ Optional rear vision camera/display helps improve visibility behind the machine.
- ⑭ Rear striker bars help keep trash from damaging the fenders. Highly recommended in waste application to help extend sheet metal life.
- ⑮ Center-hole track is recommended for waste applications. The design allows sprocket to push out debris, helping to reduce packing within the track links. Helps limit wear on track components and extend undercarriage life.
  - Double Grouser Shoes provide good balance of traction and a smooth ride. Recommended over single grouser for reduced damage when working on concrete.
  - Single Grouser Track is aggressive for good chopping action. Offers the best traction in poor underfoot conditions.
- ⑯ The landfill bucket is equipped with heavy-duty trash rack to increase bucket capacity, reduce spillage, and help protect tilt cylinder rod. General purpose and multi-purpose bucket options are also available.
- ⑰ Eight lights – four at top front corner of windshield, four on air conditioning compressor guard – illuminate work area in low light conditions.

# 963K Waste Handler Specifications

## Engine

Engine Model	Cat C7.1 ACERT	
Emissions	Tier 4 Final/Stage IV/ Korea Tier 4	
Engine Power (Maximum)		
ISO 14396	165 kW	221 hp
ISO 14396 (DIN)	224 hp	
Net Power (Rated)		
ISO 9249/SAE J1349	144 kW	193 hp
ISO 9249/SAE J1349 (DIN)	196 hp	
Bore	105 mm	4.13 in
Stroke	135 mm	5.31 in
Displacement	7.01 L	427.8 in <sup>3</sup>

- Engine power ratings occur at 1,800 rpm.
- All non road Tier 4, Stage IIIB and IV, and Korea Tier 4 diesel engines are required to use only Ultra Low Sulfur Diesel (ULSD) fuels containing 15 ppm (EPA), 10 ppm (EU) (mg/kg) sulfur or less. Biodiesel blends up to B20 (20% blend by volume) are acceptable when blended with 15 ppm (mg/kg) sulfur or less ULSD. B20 should meet ASTM D7467 specification (biodiesel blend stock should meet Cat biodiesel spec, ASTM D6751 or EN 14214). Cat DEO-ULS™ or oils that meet the Cat ECF-3, API CJ-4, and ACEA E9 specification are required. Consult your OMM for further machine specific fuel recommendations.
- Diesel Exhaust Fluid (DEF) used in Cat Selective Catalytic Reduction (SCR) systems must meet the requirements outlined in the International Organization for Standardization (ISO) standard 22241.

## Undercarriage

Track Shoe Type	Double Grouser	
Track Shoe Width – Standard	550 mm	21.6 in
Track Shoe Width – Optional	450 mm	17.7 in
Track Rollers – Each Side	7	
Number of Shoes – Each Side	38	
Track on Ground	2542 mm	100 in
Ground Contact Area – Standard Shoe	2.8 m <sup>2</sup>	4,340 in <sup>2</sup>
Ground Contact Area – Optional Shoe	2.3 m <sup>2</sup>	3,565 in <sup>2</sup>
Ground Pressure – Standard Shoe	70.9 kPa	10.3 psi
Ground Pressure – Optional Shoe	85.5 kPa	12.4 psi
Grouser Height – Double Grouser	42 mm	1.65 in
Track Gauge	1850 mm	72.8 in

## Drive System

Track Motor	Two, variable displacement, bent axis motors
Drive System	Hydrostatic drive with infinite machine speeds to 10.0 km/h (6.2 mph)
Drive Pump	Two, variable displacement, slipper-type axial piston pumps
Relief Valve Setting	47 500 kPa 6,890 psi

## Service Refill Capacities

Fuel Tank	320 L	84.5 gal
Cooling System	32 L	8.45 gal
Crankcase (with filter)	16.5 L	4.4 gal
Final Drives (each)	15 L	4 gal
Hydraulic Tank	90 L	23.7 gal
Pivot Shaft	1.8 L	0.5 gal
DEF Tank	16 L	4.22 gal

## Weights

Operating Weight	21 100 kg	46,518 lb
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## Buckets

Capacity – Landfill	3.1 m <sup>3</sup>	4.05 yd <sup>3</sup>
Capacity – General Purpose	2.45 m <sup>3</sup>	3.2 yd <sup>3</sup>
Capacity – Performance Series	2.8 m <sup>3</sup>	3.66 yd <sup>3</sup>
Capacity – Multi-Purpose	1.9 m <sup>3</sup>	2.48 yd <sup>3</sup>
Bucket Width – Landfill	2612 mm	102.8 in
Bucket Width – General Purpose	2612 mm	102.8 in
Bucket Width – Performance Series	2712 mm	106.8 in
Bucket Width – Multi-Purpose	2575 mm	101.3 in

# 963K Waste Handler Specifications

## Bucket Cycle Times

Lift	5.5 seconds
Power Down	3.7 seconds
Float Down	2.0 seconds
Dump at Maximum Height (from full rackback)	1.3 seconds
Rackback at Maximum Height (from full dump)	1.4 seconds

## Ripper Specifications

Type	Radial	
Number of Pockets	3	
Overall Width/Beam	1950 mm	76.7 in
Shank Cross Section	58.5 mm × 138 mm	50 in × 5.4 in
Ground Clearance	595 mm	23.4 in
Penetration	295 mm	11.6 in
Ripping Width	1836 mm	72.3 in
Cylinders – Bore	114.3 mm	4.5 in
Cylinders – Stroke	289 mm	11.3 in
Added Machine Length with Ripper in Transport Position	610 mm	24.0 in

## Hydraulic System – Equipment

Type	Closed center, load sensing piston	
Output	230 L/min	60.8 gal/min
Main Relief Valve Setting	27 500 kPa	3,989 psi

## Standards

### ROPS/FOPS

### Brakes

### Cab

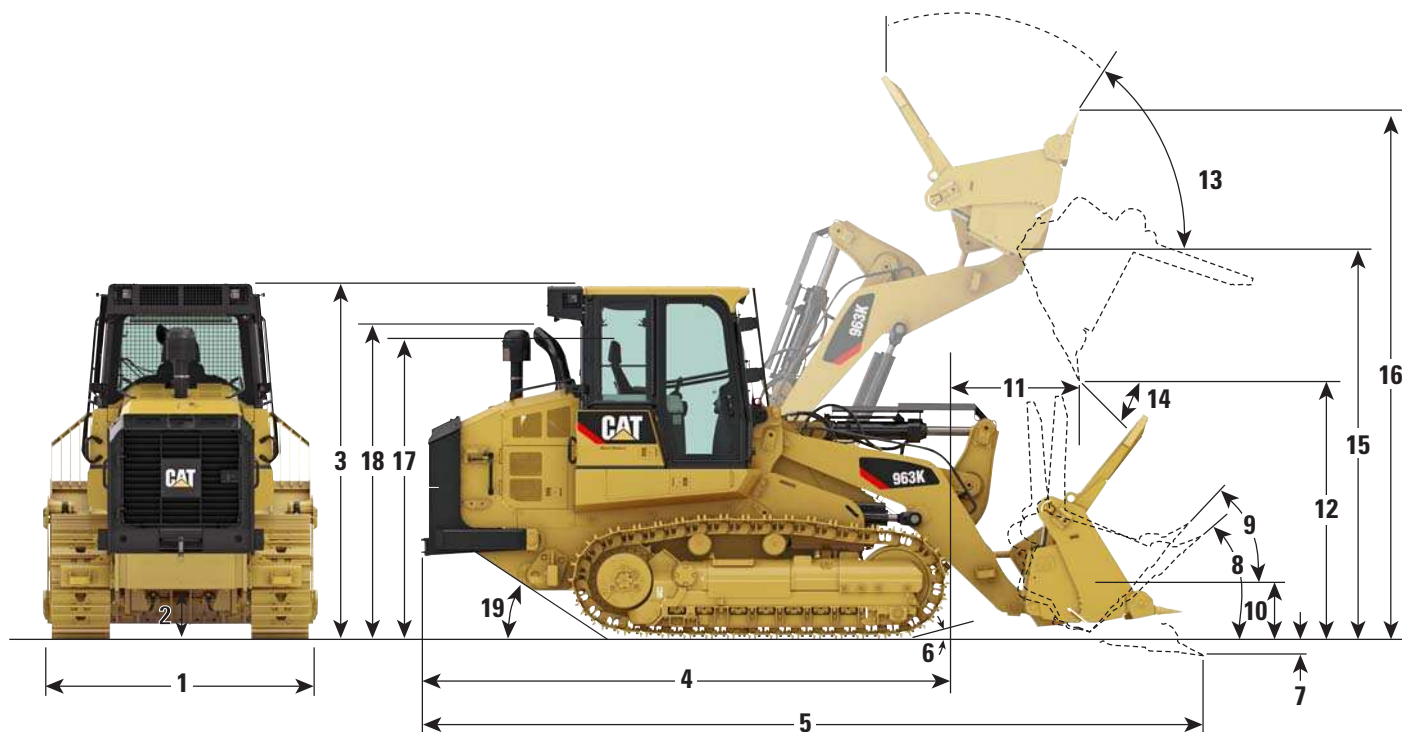
- ROPS (Rollover Protective Structure) offered by Caterpillar for the machine meets ROPS criteria SAE J1040 MAY94, ISO 3471:1994 DLV criteria SAE J397B, ISO 3164:1995.
- FOPS (Falling Object Protective Structure) meets SAE J/ISO 3449 APR98 Level II, ISO 3449:1992 Level II DLV criteria SAE J397B, ISO 3164:1995.
- Brakes meet SAE J/ISO 10265 MAR99 ISO 10265:1998.
- The declared dynamic operator sound pressure level is 73 dB(A) when “ISO 6396:2008” is used to measure the value for an enclosed cab. The measurement was conducted at the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds. The cab was properly installed and maintained. The measurement was conducted with the cab doors and the cab windows closed.
- Hearing protection is recommended when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in noisy environment.
- The declared exterior sound power level is 108 dB(A) when the value is measured according to the dynamic test procedures and the conditions that are specified in “ISO 6395:2008.” The measurement was conducted at the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds.
- The labeled sound power level is 111 dB(A) measured according to the test procedure and conditions specified in 2000/14/EC.



# 963K Waste Handler Specifications

## Dimensions

All dimensions are approximate.



<b>1 Overall Machine Width without Bucket:</b>		
With Standard Tracks – 550 mm (21.6 in) Shoes	2400 mm	94.5 in
With Narrow Tracks – 450 mm (17.7 in) Shoes	2300 mm	90.5 in
<b>2 Ground Clearance</b>	471 mm	18.5 in
<b>3 Machine Height to Top of Cab</b>	3325 mm	130.9 in
<b>4 Length to Front of Track</b>	5005 mm	197.0 in
<b>5 Overall Machine Length*</b>	7063 mm	278.0 in
<b>6 Carry Position Approach Angle</b>		15°
<b>7 Digging Depth*</b>	138 mm	5.4 in
<b>8 Maximum Rollback at Ground</b>		43°
<b>9 Maximum Rollback at Carry Position</b>		50°
<b>10 Bucket Height in Carry Position</b>	457 mm	18.0 in
<b>11 Reach at Full Lift Height and 45° Dump*</b>	1373 mm	54.0 in
<b>12 Clearance at Full Lift Height and 45° Dump*</b>	2915 mm	114.8 in
<b>13 Maximum Rollback, Fully Raised</b>		52°
<b>14 Maximum Dump, Fully Raised</b>		53°
Grading Angle		63°
<b>15 Height to Bucket Hinge Pin</b>	3940 mm	155.1 in
<b>16 Overall Machine Height, Bucket Fully Raised</b>	5402 mm	212.7 in
<b>17 Height to Top of Seat with Headrest</b>	2808 mm	110.6 in
<b>18 Height to Top of Stack</b>	2940 mm	115.7 in
<b>19 Ramp Angle</b>		29°

\* With general purpose bucket and extra duty teeth.

Dimensions vary with bucket. Refer to Operating Specifications chart.

# 963K Waste Handler Standard Equipment

## Standard Equipment

Standard equipment may vary. Consult your Cat dealer for details.

### POWER TRAIN

- Cat C7.1 ACERT diesel engine
- Tier 4 Final/Stage IV/Korea Tier 4 emission standards
- Twin turbocharged with ATAAC
- Modular cooling system for engine air intake, oil and water
- Fan radiator, electronically controlled, hydraulically driven, temperature sensing, on demand
- Electro Hydrostatic Control (EHC) for transmission with travel and work modes
- Electric fuel pump
- Water separator
- Air cleaner dry-type, axial seal with integral precleaner and dust ejection system, electronic filter condition indicator
- Engine mounted aftertreatment
- Muffler, under hood
- Starting aid, glow plug
- Cat extended life coolant

### UNDERCARRIAGE

- Cat Enhanced Sealed and Lubricated Track (ESALT) tracks
- Track guiding guards, end section
- Track adjuster, hydraulic
- Sprocket rims, with replaceable bolt-on Tough Steel segments
- Guards, sprocket
- Seven track rollers per side, with two upper carrier rollers, lifetime lubricated
- Idlers, conventional type, lifetime lubricated
- Oscillating track roller frames

### ELECTRICAL

- Alternator, 24V, heavy duty brushless
- Alarm, backup
- Horn, electric
- Two heavy duty batteries, high output, maintenance free, 1,120 CCA
- Switch, main disconnect
- Starter, electric (heavy duty, 24V)
- Four halogen lights, two facing forward, roof mounted; two facing rearward integrated into A/C unit

### OPERATOR ENVIRONMENT

- Pressurized, sound suppressed, ROPS/FOPS
- Cab with tinted glass and right side sliding window
- Air conditioning and heating
- Heater/defroster with automatic temperature control
- Seat, fabric-covered, air suspended adjustable
- Electro hydraulic, seat mounted control levers with faster processing
- Seat belt, retractable, with indicator on dash
- Electronic Monitoring System with gauges for:
  - Engine coolant temperature
  - Hydraulic oil temperature
  - DEF level
  - Fuel level
- Mirror, rearview, inside, adjustable
- Radio ready – includes 24V to 12V converter, speakers, antenna and two 12V power outlets
- Coat hook
- Storage compartments under left armrest
- Document holder on right console
- Floor mat, rubber, heavy duty
- Windshield washers and wipers, multiple speed front and rear
- Durable metal roof
- Parking brake switch and “brake-on” indicator light
- Fender

### OTHER STANDARD EQUIPMENT

- Sound suppression, exterior
- Z-bar loader linkage
- Load sensing variable displacement implement pump
- Implement cylinders sensors
- Operator programmable lift and tilt
- Engine enclosure with lockable doors
- Radiator core 6.5 fpi, debris resistant
- Hinged radiator guard and swing out fan
- Guards, full bottom
- Ecology drains on hydraulic oil tank
- Product Link ready
- Oil sampling valves
- Hoses, Cat XT™
- HYDO™ Advanced 10



## Optional/Recommended Equipment

Optional/recommended equipment may vary. Consult your Cat dealer for details.

### WASTE PACKAGE

Built for waste handling applications, this package features:

- Undercarriage, enhanced sealed and lubricated track
- Guards for the final drives and idlers Duo-Cone seals
- Thicker front guard for the hydraulic tank
- Sealing between front guard and frame around hydraulic lines
- Latches on rear guard and fan door for easier cleaning

#### Recommended Options:

- Striker bars
- Tracks with center holes
- Lights, guards package OR Lights, windshield screen package
- Abrasion guards for the final drives
- Guard, tilt cylinder

#### Requires:

- Air inlet, precleaner, turbine
- Guard, idler
- Fan, demand, reversing
- Service package, extended
- Guard lift cylinders
- Enhanced sealed and lubricated tracks

### WASTE EXTREME SERVICE PACKAGE

The waste handler extreme service package provides needed attachments to work successfully in tough waste applications like transfer station and demolition.

The modifications to the base machine include those from the waste handler package plus the following:

- Heavy duty bumper with hitch
- Guards for lift cylinders
- Guard tilt cylinder
- Striker bars

#### Recommended Options:

- Tracks with center-hole shoes
- Bucket equipped with trash rack for landfill application
- Bucket, multi-purpose extreme service for scrap/material handling
- Guard group, track roller
- Guard final drive abrasion low or low and high

#### Requires:

- Air inlet, precleaner, turbine
- Guard, idler
- Fan, demand, reversing
- Service package, extended
- Lights, guards package OR Lights, windshield screen package
- Enhanced sealed and lubricated tracks

### CENTER HOLE TRACK SHOES

- 457 mm (18") double grouser
- 457 mm (18") single grouser, extreme service
- 559 mm (22") double grouser

### QUICK COUPLER READY

#### Requires:

- Lines, pump, quick coupler
- For balance issue, quick coupler configuration also requires ripper
- Waste, extreme service package or light + additional counterweights

### BUCKET PACKAGES

3.1 m<sup>3</sup> (4.1 yd<sup>3</sup>) landfill, heavy duty – general purpose flat bottom bucket equipped with a heavy duty trash shield

#### Includes:

- Bolt-on cutting edges (set of seven)
- Bolt-on teeth, heavy duty (set of eight)

2.7 m<sup>3</sup> (3.5 yd<sup>3</sup>) landfill, heavy duty – bucket multi-purpose landfill equipped with heavy duty trash rack

#### Includes:

- Bolt-on cutting edges (set of seven)
- Bolt-on teeth, extra duty (set of eight)

#### Requires:

- Hydraulic four-valve, multi-purpose joystick or
- Hydraulic three-valve, multi-purpose joystick







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AEHQ7647 (09-2015)

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