

623H

Wheel Tractor-Scraper



Engine

Tractor	Cat® C13 ACERT™	
Max. Power	304 kW	407 hp

Scraper Bowl

Heaped Capacity	17.6 m ³	23 yd ³
Rated Load	25 038 kg	55,200 lb

623H Features

Economical Hauling System

The wheel tractor-scraper, with its ability to load quickly, haul at high speeds and dump on the go, has the potential to be the most profitable hauling system on the job site. This efficiency can result in fewer machines on the job, reduced operating costs and jobs delivered in a shorter period of time.

Power Train

Caterpillar designed and manufactured power train components deliver the power necessary for fast loading and quick hauls.

Operator Station

Single joystick control of implements, adjustable arm rests, seat, steering column and room to maneuver all reduce fatigue and increase operator comfort and productivity throughout the shift.

Cushion Hitch

The cushion hitch is a Caterpillar proven system for protecting components of the hitch and improving ride quality, dampening loads that might otherwise be carried through the frame to the operator. Cushion hitch offers operators a more comfortable haul portion of the work cycle.

Durability

Cat wheel tractor-scrapers have a history of robust structural design, tested and validated to last in the most rugged loading and hauling conditions.

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Quick loading, high travel speeds and the ability to load and dump on the run yield fast cycle times, allowing Cat Wheel Tractor-Scrapers to consistently deliver high productivity at the lowest cost per ton.



Operator's Station

Ergonomically designed for all-day comfort, control and productivity.

Ergonomic Layout

The all new H Series operator station is ergonomically designed for total machine control in a comfortable, productive and safe environment. All controls, levers, switches and gauges are positioned to maximize productivity and facilitate a reduction in operator fatigue.

Viewing Area

Designed for excellent all-around visibility and clear sight lines to the job site, the large viewing area offers exceptional visibility to the front of the machine as well as to the cutting edge. The air conditioning unit has been relocated to beneath the cab, allowing the operator enhanced visibility.

1) Angled Steering Wheel for enhanced comfort while loading. 2) Lunchbox Storage Platform with Strap. 3) Sequence Assist, and Cat[®] Grade Control Controls (optional). 4) Work Area Vision System (WAVS) (optional). 5) Cat Messenger Display. 6) Implement Control Lever. 7) Cat Grade Control Display (optional). 8) Transmission Controls. 9) Cat Comfort Seat. 10) Coat Hook. 11) Dome Courtesy Light. 12) Rearview Mirror. 13) Radio-Ready. 14) Heating and Air Conditioning.

Operator Comfort

High productivity from a comfortable, confident operator.



Spacious Cab

With a 21% larger cab, H Series scrapers offer a comfortable working space. The larger cab and wider door make getting in and out of the cab easier. The increased glass area enhances visibility around the machine.

Steering Column

The steering column and pedals have been relocated for more comfortable operation when the seat is angled during machine operation. The telescopic and tilt adjustable steering column maintains a comfortable driving position regardless of operator size.

Standard Comfort Features

The H Series cab is equipped with features designed to maintain operator comfort. Standard comfort features include: coat hook, lunchbox storage platform with strap, air conditioning, heat, and radio-ready.

Seat Options

H Series scrapers use the Cat Comfort Seat with additional travel to allow the operator to position themselves for optimal comfort and productivity. The seat rotates up to 30 degrees to the right for a more comfortable position during loading and 30 degrees to the left to make getting in and out of the cab easier.

For unparalleled ride comfort, H Series scrapers are equipped with the Cat Advanced Ride Management (ARM) seat suspension which uses an active suspension to dampen vibration and minimize end-of-stroke shock loads to the operator.

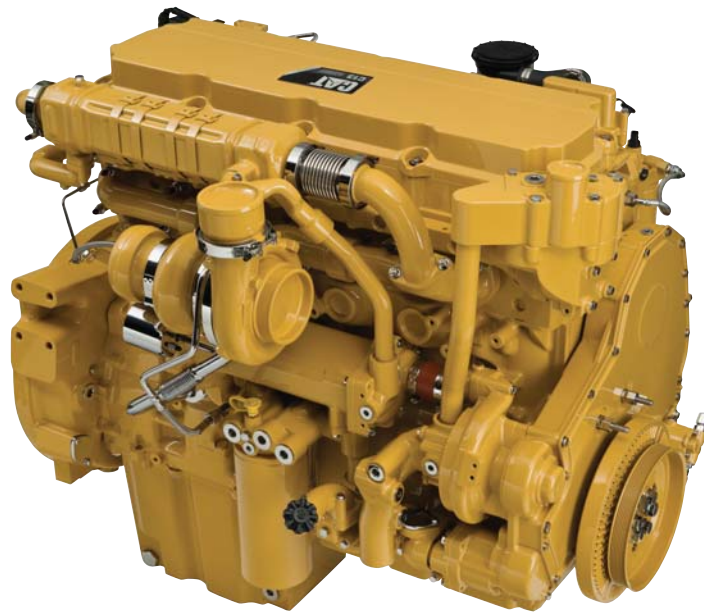
Integrated Technologies

The optional Sequence Assist and Cat Grade Control automate many repetitive operator tasks.

T-Handle Implement Control Lever

The redesigned control lever puts all of the scraper functions in the palm of the operator's hand. The low-effort lever and convenient push-button and thumb wheel controls are ergonomically placed for minimum arm movement.





Power Train – Engine

The Cat® C13 ACERT™ engine is built for power, reliability and efficiency.

ACERT Technology

The Cat® C13 ACERT™ engine continues the evolutionary, incremental improvements that provide breakthrough engine technology built on systems and components developed by Caterpillar with proven reliability. The engine is available with either U.S. EPA Tier 3/EU Stage IIIA equivalent emission configurations or U.S. EPA Tier 4 Interim/EU Stage IIIB certified emission configurations to meet the needs of contractors around the world.

Emissions

Machines equipped with engines meeting U.S. EPA Tier 4 Interim/EU Stage IIIB emission standards are equipped with a Cat Clean Emission Module to deliver the performance and efficiency that customers demand while meeting emission requirements. Machines equipped with the U.S. EPA Tier 3/EU Stage IIIA equivalent engines are equipped with a muffler in place of the Cat Clean Emission Module.

Cat Clean Emission Module (CEM)

CEM is an exhaust aftertreatment package consisting of a diesel particulate filter, and control systems. The CEM reduces particulate emissions using passive and active regeneration during normal engine operation.

Cat NO_x Reduction System (NRS)

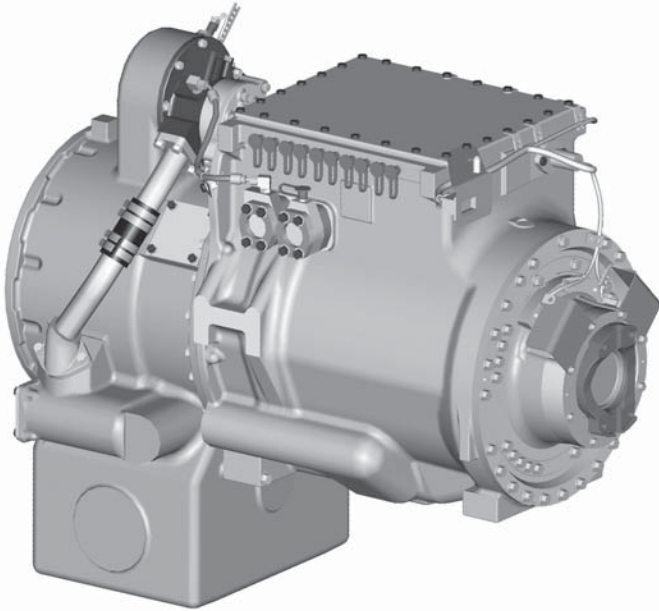
The Cat NO_x Reduction System (NRS) captures and cools a small quantity of exhaust gas, then routes it into the combustion chamber where it drives down combustion temperatures and reduces NO_x emissions.

Diesel Particulate Filter Regeneration

Regeneration is the removal of soot from the Diesel Particulate Filter (DPF). The Aftertreatment Regeneration Device (ARD) is used to regenerate the DPF. The DPF traps both particulates and ash, the ash is removed at regular service intervals.

Power Train – Transmission

More power to the ground for greater productivity.



Electronic Transmission

The Cat eight-speed forward one-speed reverse Electronic Clutch Pressure Controlled (ECPC) transmission features enhanced shift control logic with anti-hunt shift strategy for speed continuity, and to ensure constant shift times.

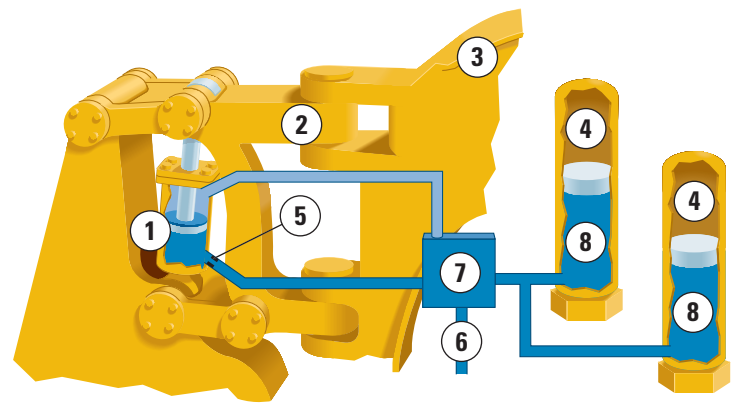
- Tractor gears 1-2 – converter drive for increased torque, gears 3-8 – direct-drive for drive train efficiency.
- Transmission Hold maintains converter drive for maximum rimpull or holds current gear for best control.
- Programmable Top Gear manually sets top gear available (3rd-8th) to match conditions or speed.
- Neutral Coast Inhibitor prevents transmission shifts into neutral while moving.

Smooth Transmission Gear Shifting

The 623H features ECPC Shift Torque Management (STM), with improved Shift Control Logic (SCL) and Part Throttle Shifting (PTS). These features allow smoother shifting and greater acceleration on grades while torque is maintained through the shift changes. SCL also provides automatic shift selection that is more specific to the desired machine operation, and downshifts when needed for maximum acceleration when increased throttle is applied. PTS allows shifting at lower speeds during part throttle operation, resulting in improved part throttle fuel economy, quieter machine operation, and better maneuvering in reduced speed operating conditions.

Brake Performance

The 623H uses hydraulically-actuated wet disc brakes for exceptional brake performance. The standard Cat Engine Brake reduces brake wear and enhances machine control.



Structures

Superior design and construction delivers long term durability.

Cushion Hitch

Electronically actuated with parallelogram-type linkage for exceptional strength, with two nitrogen accumulators (4) using free-floating pistons (8) to deliver a smooth ride for enhanced operator comfort and machine durability.

- controlled oil flow (6) dampens rebound oscillation
- leveling valve (7) applies pressure via an orifice (5) to automatically center the piston in load cylinder (1)
- steel castings are used to eliminate many welded joints and increase strength
- double-kingbolt design (2, 3) withstands high external forces, simplifies installation and removal

Lockout Switch

An operator-selectable lockout switch, located on the joystick, locks the cushion hitch down for improved control of the cutting edge during loading and dumping.

Nitrogen Accumulator

Vertically mounted hydraulic cylinder transfers road shocks to nitrogen accumulators. Nitrogen accumulator absorbs and dampens road shocks, thus preventing the loads from being transmitted to the hitch components or to the operator.

Non-Metallic Fenders and Fuel Tank

The new fuel tank is made of recyclable roto-milled polyethylene and keeps the fuel cleaner with controlled filtration and cleanout access ports. The new capacity of the new fuel tank has been increased, providing operators with 10 plus hour shifts depending on engine load factors.

The new tractor fenders are made of the same highly durable, roto-milled polyethylene. The non-metallic fenders prevent material buildup when operating in sticky materials.



Scraper Bowl

Caterpillar designed and built for rugged performance and reliability.

Redesigned Bowl

The structure of the bowl sidewalls, ejector and floor have been improved for improved durability. New floor door rollers are used for longer life. The bowl uses a low profile design offering low resistance to incoming materials.

Ejection System

The powerful ejection system provides constant spreading control while minimizing carryback material. The floor of the bowl retracts as the ejector moves forward, allowing the operator to precisely control the flow of material.

Cutting Edges and Cat Ground Engaging Tools (GET)

A variety of Ground Engaging Tools (G.E.T.) options are available to optimize the machine for different material types and loading conditions. GET options include standard, serrated, and Abrasion Resistant Material (ARM). Most are reversible to provide long life and reduced operating costs. Contact your Cat dealer to learn more about the best tools for your applications.

Material Application

The 623H is ideal for windrowing, blending material as well as breaking up vegetation in stripping operations.

Elevator

The stronger elevator makes the 623H capable of far more than finish work.

Material Handling

The elevator lifts material off of the cutting edge and carries it to the top of the elevator and then dumps the material into the bowl. Blending the material helps eliminate voids in the bowl for consistent payloads and uneven loading.

Closed Loop Elevator Hydraulic System

The 623H elevator power has been increased by a new variable displacement piston pump and fixed displacement motor in a closed-loop circuit. The increased power enables the operator to take deeper cuts and load in a shorter distance with less elevator stall.

Redesigned Elevator Structures

The 623H elevator and chain life has been improved through structural improvements to the elevator structure. Wear plates are used in place of rollers for reduced chain stretch.

New Elevator Controls

The elevator is engaged with a thumb roller on the joystick. The operator can choose one of seven forward and four reverse speeds to match the speed that best matches the material.

Chain Adjustment

Serviceability is enhanced through a new chain adjustment mechanism. The new scissors-style chain adjuster uses a simple tool to tighten the chain in 2.54 cm (1.0 in) increments.

Elevator Flights

The life of the 15 elevator flights is improved in abrasive materials through the addition of high-strength, wear-resistant steel on the face of each flight.



Integrated Technologies

Technology options to improve operator comfort and increase productivity.



Sequence Assist

Sequence Assist uses integrated software and position-sensing cylinders to automate many of the tasks an operator performs when loading, hauling and dumping. The operator simply sets preferences for bowl and apron height and subsequently pushes a button to ready the machine for loading, then hauling, then dumping, and then the return to cut. The system automatically sets the cushion hitch, bowl height, ejector and elevator. Sequence Assist comes with a convenient load counter for tracking material moved.

With Sequence Assist, up to 14 individual implement and machine commands are replaced by four touches of a button, allowing the operator additional time to prepare for the loading cycle and observation of the job site.



Cat Grade Control

Cat Grade Control is an automatic system that helps you control costs by moving the maximum amount of material with the prime earthmover which often provides the lowest cost per unit of material moved. Using satellite positioning technology, the automatic system ensures cut protection by limiting how deep the scraper will dig. The optional system is available from the factory and fully integrated into the machine and works seamlessly with Sequence Assist.

Additional benefits of Cat Grade Control include putting the site plan in front of the operator for increased efficiency and elimination of rework and using the scraper for site mapping.



Work Area Vision System (WAVS)

Cameras on the machine provide views of the cutting edge, right side and rear. The system enhances safety and provides a new way to see the cutting edge during loading and to see to the rear of the machine when performing push-load or push-pull work with another scraper.



Complete Customer Support

Cat[®] dealer services help you operate longer with lower costs.

Selection

Make comparisons of the machines you are considering before you buy. Your Cat[®] dealer can help.

Purchase

Consider the resale value, compare productivity and day-to-day operating costs and fuel consumption.

Operation

For the best operating techniques to increase productivity and your profit, turn to your Cat dealer for the latest training literature and trained staff.

Maintenance

Repair option programs guarantee the cost of repairs up front. Diagnostic programs such as S·O·SSM and Technical Analysis help you avoid unscheduled repairs.

Replacement

Repair or rebuild? Your Cat dealer can help you evaluate the costs so you can make the right choice.

Product Support

Your local Cat dealership will be with you every step of the way with its unsurpassed worldwide parts support, trained technicians and customer support agreements.

cat.com

For more complete information on Cat products, dealer services and industry solutions, visit us on the web at www.cat.com



Safety

Safety is an integral part of all machine and system designs.

Powered Access Ladder

A new powered access system option significantly reduces the effort required to climb into the cab. The system is a solid, stable angled ladder that folds out from underneath the cab. It is activated from a keypad located behind a service door at ground level. Controls are also located in the cab on a keypad.

The ladder provides a rigid and angled base of support for easier climbing and descent. For added safety, the steps are illuminated by LED lights.

An actuator under the cab operates the step. When not in use, the ladder retracts under the cab. An audible alarm sounds if the machine moves while the ladder is down. If power fails on the machine, the operator can raise or lower the steps manually using a lever inside the cab or outside next to the ladder's top step.

Access and Egress

Handrails and grab irons are provided for safe and secure entrance and exit of the cab as well as for performing daily maintenance.

Work Area Vision System (WAVS)

Cameras on the machine provide views of the cutting edge, right side and rear. The system enhances safety and provides a new way to see the cutting edge during loading and to see to the rear of the machine when performing push-load or push-pull work with another scraper.

623H Wheel Tractor-Scraper Specifications

Tractor Engine – U.S. EPA Tier 4 Interim/EU Stage IIIB

Tractor Engine	Cat® C13 ACERT™	
Max. Power (All Gears) (ISO 14396)	304 kW	407 hp
Max. Power Reference Engine Speed	1,700 rpm	
Displacement	12.5 L	763 in ³
Bore	130 mm	5.1 in
Stroke	157 mm	6.2 in

- Max. power advertised is the max. power available at max. power reference engine speed of 1,700 rpm, measured at the flywheel when the engine is equipped with air cleaner, alternator, and exhaust losses.

Tractor Engine – Prior U.S. EPA Tier 3/EU Stage IIIA configuration*

Tractor Engine	Cat® C13 ACERT™	
Max. Power (All Gears) (ISO 14396)	304 kW	407 hp
Max. Power Reference Engine Speed	1,700 rpm	
Displacement	12.5 L	763 in ³
Bore	130 mm	5.1 in
Stroke	157 mm	6.2 in

- Max. power advertised is the max. power available at max. power reference engine speed of 1,700 rpm, measured at the flywheel when the engine is equipped with air cleaner, alternator, and exhaust losses.

* For jurisdictions other than the U.S. and the European Union.

Scraper Bowl

Heaped Capacity	17.6 m ³	23.0 yd ³
Rated Load	25 038 kg	55,200 lb
Struck Capacity	14.4 m ³	18.8 yd ³
Maximum Depth of Cut	262 mm	10.3 in
Width of Cut, Outside Router Bits	3136 mm	123.5 in
Maximum Ground Clearance at Cutting Edge	529 mm	20.8 in
Thickness of Cutting Edge	22 mm	0.9 in
Maximum Hydraulic Penetration Force	590 kN	132,640 lbf
Maximum Depth of Spread	465 mm	18.3 in

Transmission

1 Forward	5.0 km/h	3.1 mph
2 Forward	8.9 km/h	5.5 mph
3 Forward	12.1 km/h	7.5 mph
4 Forward	16.3 km/h	10.1 mph
5 Forward	21.9 km/h	13.6 mph
6 Forward	29.6 km/h	18.4 mph
7 Forward	39.9 km/h	24.8 mph
8 Forward	53.9 km/h	33.5 mph
Reverse	9.2 km/h	5.7 mph

Hydraulics

Bowl Cylinder Bore	140 mm	5.5 in
Bowl Cylinder Stroke	845 mm	33.3 in
Bowl Floor Cylinder Bore	130 mm	5.1 in
Bowl Floor Stroke	1353 mm	53.3 in
Ejector Cylinder Bore	110 mm	4.3 in
Ejector Cylinder Stroke	1213 mm	47.8 in
Steering Cylinder Bore	127 mm	5.0 in
Steering Cylinder Stroke	1128 mm	44.4 in
Cushion Hitch Cylinder Bore	140 mm	5.5 in
Cushion Hitch Cylinder Stroke	251 mm	9.9 in
Steering Circuit Flow	234 L/min	61.8 gal/min
Secondary Steering Circuit Flow	39.0 L/min	10.3 gal/min
Scraper Circuit Flow	192 L/min	50.7 gal/min
Elevator Circuit Flow	257 L/min	67.9 gal/min
Cushion Hitch Circuit Flow	40.1 L/min	10.6 gal/min

Steering

Steering Angle – Right	85°
Steering Angle – Left	82°

623H Wheel Tractor-Scraper Specifications

Weights

Machines meeting U.S. EPA Tier 4 Interim/
EU Stage IIIB emission standards

Shipping Weight – 10% Fuel	39 259 kg	86,259 lb
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Operating Weight – full fuel tanks	39 937 kg	88,046 lb
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Loaded, based on a rated load	64 975 kg	143,245 lb
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Machines achieving prior U.S. EPA Tier 3/
EU Stage IIIA emissions levels

Shipping Weight – 10% Fuel	39 011 kg	86,004 lb
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Operating Weight – full fuel tanks	39 689 kg	87,499 lb
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Loaded, based on a rated load	64 728 kg	142,701 lb
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Service Refill Capacities – Tractor

Engine Crankcase	33 L	8.75 gal
Transmission	70 L	18.5 gal
Differential	173 L	45.8 gal
Final Drive (per side)	19 L	5.0 gal
Cooling System	64 L	17.0 gal
Hydraulic Reservoir	83 L	22.0 gal
Windshield Washer Reservoir	5 L	1.3 gal

Service Refill Capacities – Scraper

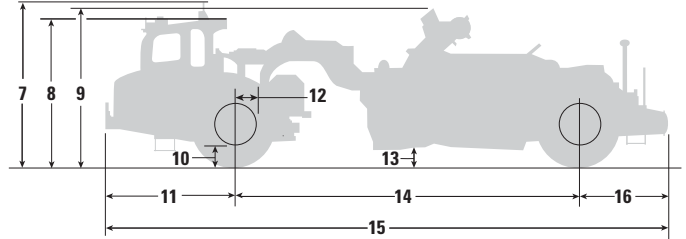
Non-Powered Wheel	4 L	1.1 gal
Fuel Tank	763 L	201.6 gal

Standards

- Steering System meets ISO 5010:2007 for up to a maximum approved operating weight
- Brakes meet ISO 3450:1996 for up to a maximum approved operating weight
- Rollover Protective Structure (ROPS) is certified to a tractor only mass of 18 800 kg (41,447 lb) as tractor portion of tractor-scrapers per Table 1 of ISO 3471:2008. This excludes scraper weight and payload.
- Falling Object Protective Structure (FOPS) meets ISO 3449:2005 Level II
- Seat Belts meet SAE J386 June 1985
- Forward and Reverse Alarms meet ISO 9533:1989
- Optional Information
- The dynamic operator sound pressure level is 76 dB(A) when “ISO 6396:2008” is used to measure the value for an enclosed cab. The measurement was conducted at 100% of 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. The cab was properly installed and maintained. Hearing protection may be needed when the machine is operated with an open operator station for extended periods or in a noisy environment. Hearing protection may be needed when the machine is operated with a cab that is not properly maintained or when the doors and windows are open for extended periods or in a noisy environment.
- The average exterior sound pressure level is 80 dB(A) when the “SAE J88 FEB06 – Constant Speed Moving Test” procedure is used to measure the value for the standard machine. The measurement was conducted under the following conditions: distance of 15 m (49.2 ft) and “the machine moving forward in an intermediate gear ratio.”
- The exterior sound power level is 113 dB(A) when the value is measured according to the static pressure test procedures and the conditions that are specified in “ISO 6393:2008.”

Dimensions

All dimensions are approximate.

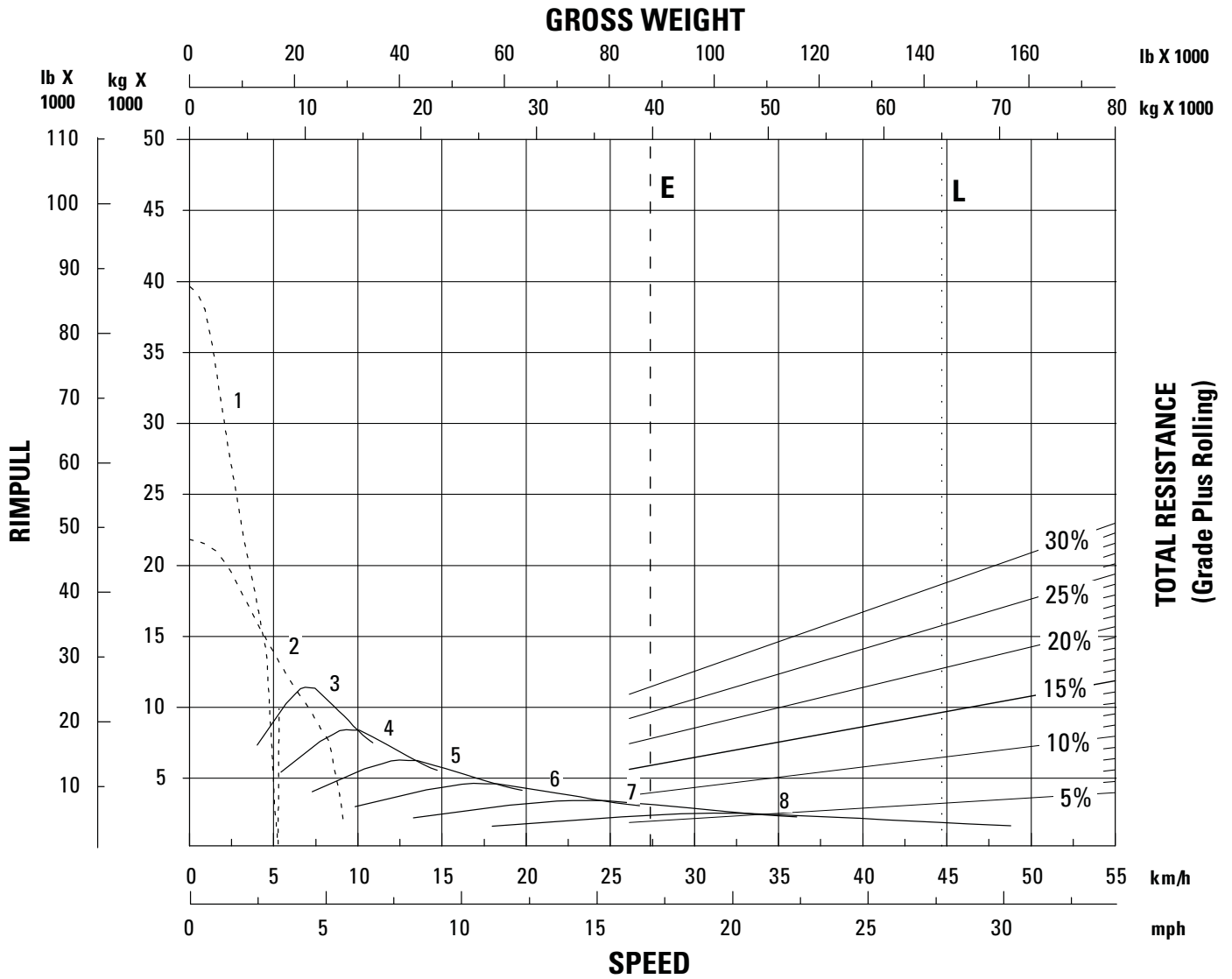


	mm	in
1 Width – overall machine	3565	140.4
2 Width – tractor (ladder down)	3688	145.2
3 Width – tractor	3381	133.1
4 Width – rear tire centers	2290	90.2
5 Width – inside bowl	3048	120.0
6 Width – outside rear tires	3165	124.6
7 Height – overall shipping	4037	158.9
8 Height – top of cab	3714	146.2

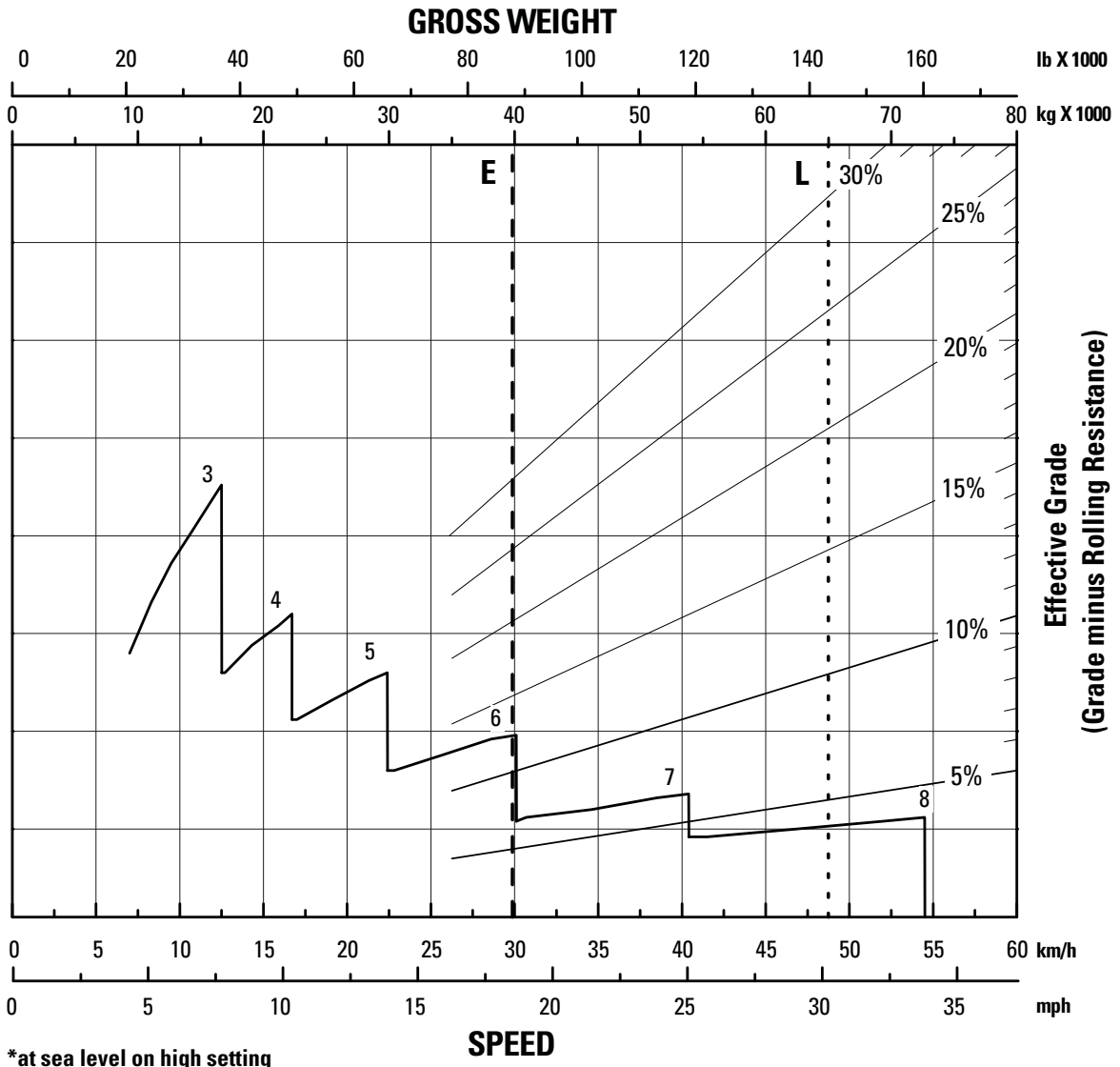
	mm	in
9 Height – top of elevator	3768	148.3
10 Ground clearance, tractor	557	21.9
11 Front of tractor to front axle	3119	122.8
12 Axle to vertical hitch pin	540	21.3
13 Height – scraper blade maximum	520	20.5
14 Wheelbase	8370	329.5
15 Length – overall machine	13 767	542.0
16 Rear axle to rear of machine	2278	89.7

623H Wheel Tractor-Scraper Specifications

623H Rimpull



623H Retarding*



623H Standard Equipment

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

POWER TRAIN

TRACTOR:

- C13 ACERT engine with MEUI
- Cat Engine Brake
- Electric start, 24 Volt
- Air cleaner, dry type with precleaner
- Fan, hydraulic
- Diesel Particulate Filter (DPF) aftertreatment (for engine meeting U.S. EPA Tier 4 Interim/EU Stage IIIB emission standards)
- Ground level engine shutdown
- Radiator, aluminum unit core, 9 fins per inch
- Guard, crankcase
- Muffler (for engines achieving U.S. EPA Tier 3/EU Stage IIIA emission levels)
- Starting aid, ether
- Braking system:
 - Primary and Secondary, wet disc, hydraulic
 - Parking, hydraulically-released, spring-applied
- Throttle Lock
- Transmission:
 - 8-speed planetary powershift
 - ECPC Control
 - APECS software
 - Programmable top gear selection
 - Transmission hold
 - Differential lock
 - Guard, power train

SCRAPER:

- C9.3 ACERT engine with high pressure common rail fuel
- Cat Engine Brake
- DPF aftertreatment module (for engine meeting U.S. EPA Tier 4 Interim/EU Stage IIIB emission standards)
- Electric start, 24 volt
- Fan, driveline
- Ground engine shutdown
- Muffler (for engines achieving prior U.S. EPA Tier 3/EU Stage IIIA emission levels)
- Starting aid, ether
- Braking system:
 - Primary and Secondary, wet disc, hydraulic
 - Parking, hydraulically-released, spring-applied
- 4-speed (torque converter drive) transmission, planetary powershift

ELECTRICAL

TRACTOR:

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

SCRAPER:

- Alarm, backup
- Alternator, 65 Amp
- Batteries (4), 12 Volt, 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, 12V
- ROPS/FOPS cab, pressurized
- Keypad switches
- Safety tab rocker switches
- Parking brake
- Seat belt, static two-piece
- Seat, air suspension, Comfort Series 3, rotates 30 degrees
- Steering wheel, tilt, telescoping, padded
- Storage in dash if WAVS or Cat Grade Control is not equipped
- 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 temp
- Engine oil temp
- Hydraulic oil temp
- DPF temp
- 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 out
- DPF fill levels

FLUIDS

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

OTHER STANDARD EQUIPMENT

TRACTOR:

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

SCRAPER:

- Quick drop bowl valve
- Vandalism locks
- Elevator with 15 flights

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

Sequence Assist

Cat Grade Control

Secondary Steering

Powered access ladder

Cat Active Ride Management (ARM) seat

Fast fuel fill

HID Work lights

Low ambient fluids -51°C (-61°F)

Work Area Vision System (WAVS) – three cameras showing right side, cutting edge and directly behind machine, display in cab

External steering lock

Cab precleaner

Cab rotating beacon

Air horn

Fender extension, scraper

623H Wheel Tractor-Scraper

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AEHQ6715 (03-2012)

