



TEREX®

LANDFILL COMPACTOR



TC550

LANDFILL COMPACTOR

A large, light beige silhouette of a Terex Trashmaster Landfill Compactor is positioned in the background. The machine features a prominent front-mounted compaction wheel and a rear-mounted compaction wheel, with a central operator's cab and various mechanical components visible.

MORE REFUSE IN LESS SPACE

FULL-WIDTH COMPACTION + MAXIMUM PLI* POWER

THE INDUSTRY'S ONLY FULL-WIDTH COMPACTORS

Whenever tons of trash have to be packed into the finite space of a landfill, it's not just the weight of the compactor that counts. It's how that compactor applies its weight—the actual force it exerts.

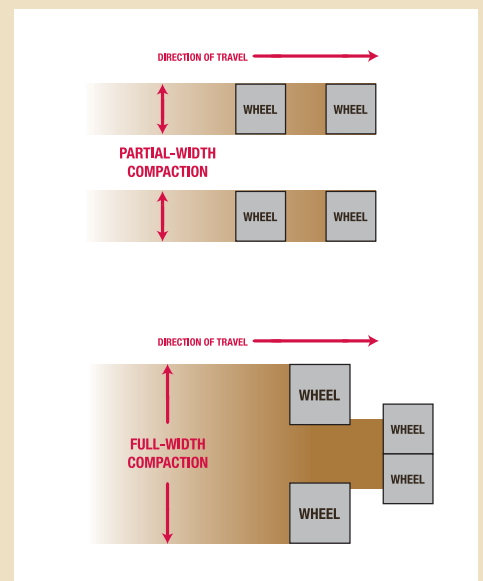
Terex Trashmaster Landfill Compactors put their weight to the task like no others. That's because 1) they're the industry's only full-width compactors...the result of a unique wheel configuration, and 2) they pack more PLI-power than any other compactors out there. *PLI stands for "Pounds Per Linear Inch," which is how compaction force is measured.

Let's start by examining the triangular wheel configuration. This is what enables the TC550 to compact an area equal to its wide footprint. In other words, it compacts everything under it, front to back, side to side, in a single pass. Conventional compactors, by comparison, leave an uncompacted "gap" area in the middle of their footprints. You can blame their wheels being located at the four corners of their frames for that. Result? Multiple passes are required to compact a single run. But with a TC550 and its triangular wheel pattern, one pass will do it. The machine's weight is distributed equally, too, resulting in greater compaction densities than other compactors provide.



Couple the TC550's triangular wheel pattern and its high-density compaction force with its available operating weight—110,000-plus pounds (49,895-plus kilograms)—and you've got the greatest compaction force in the industry. That's what PLI is all about: It's the power to pack more refuse into your landfill, the power to increase density levels, as well as your revenue and your bottom line. And the TC550 has the highest PLI rating of any machine in its class.

Ultimately, this machine outperforms other compactors because it was designed by Terex specifically for the compaction of trash. It's not just a converted bulldozer or loader outfitted with compactor wheels. What's more, it's been around: No other compactor has as long a history of industry acceptance and use.



THE TRASHMASTER TC550

ROBUST, RELIABLE AND READY TO ROLL



FULL-WIDTH COMPACTION

- Wide footprint: 13 ft 8 in across
- Triangular wheel configuration: every pass results in compaction of an area equal to the square-foot area of the machine's footprint
- No guesswork as to whether you compacted an area—everything under the TC550 is compacted, ensuring the maximum amount of trash your landfill can hold
- Fewer passes than with loaders—which means less fuel consumption, less wear-and-tear on components and increased machine life

OVERSIZED COMPONENTS

Largest-Displacement Engine in the Industry

- New Tier III Cummins® QSK-19 turbocharged, charge-air-cooled diesel engine—525 hp (391 kW) at 2,000 rpm
- Fuel, lube-oil and coolant systems protected by individual filters
- Cooling air provided by 46 in (1,168 mm) fan
- Dry-type, replaceable air cleaner—with safety element and service indicator—treats air entering the engine
- Double the air filtration of older models

Largest Blade Lift Arms

- “A” frame channel steel
- 5 in (127 mm) boss mounts

Oversized Planetary

- Specifically designed for the daily rigors landfill compactors are put through—off-highway planetaries

Oversized Pump-Drive Gearbox

- New seven-gallon gearbox, retrofit for older machines available
- Pressurized lubrication
- Independent oil cooler

Oversized Pump and Motors

- Sized for long-term reliability
- 90 Series, heavy-duty pump and motors

O-Ring Face-Seal Hose Connections

- No-leak system

Increased Hydraulic Cooling Capacity

- Steering and blade temperature reduced by the design of their own separate cooling package
- A plate cooler added to manage hydraulic temperatures in line with engine operating temperatures, thus reducing premature hose failure, leakage and the breakdown of hydraulic oil

Improved Hydraulic Hose Routing

- Enhanced hydraulic-component location and hose routings for extended life and easier maintenance
- New hose routings reduce rub areas and make for easier hose replacement, especially in the front bogie area
- Larger cooler on the TC550 than on the 3-90E

New, Improved Cleat Patterns

- Reduce wheel clogging
- Cut replacement costs of cleats and reduce damage caused by wire wrap

Oversized Articulated Joint

- Supports both mainframe and bogie

Most Advanced Wire-Wrap Protection System

Steering Cylinder Protection

- Cylinder mounted up and out of trash

PLI POWER TO SPARE

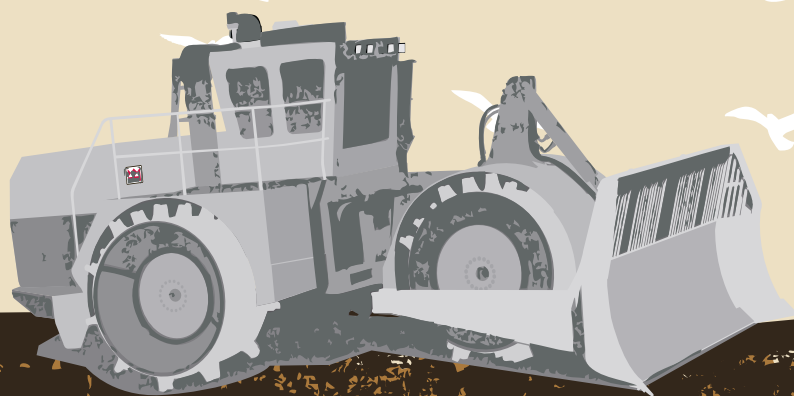
Weight vs. PLI—Compaction Per Linear Inch

Due to the rolling motion of the wheels, the surface area can be simplified to a theoretical line with a length equal to the width of the wheels. This unit is known as PLI—Compactive-effort pounds per linear inch.

Formula	compactor weight (lb)/total wheel width (in)	= PLI
TEREX	110,000+ lb/150 in (49,895+ kg/381 cm)	= 733 lb per linear inch (130.9 kg per linear cm)
CAT	118,000 lb/220 in (53,523 kg/558.8 cm)	= 536 lb per linear inch (95.8 kg per linear cm)
AL-JON	126,000 lb/220 in (57,153 kg/558.8 cm)	= 572 lb per linear inch (103.2 kg per linear cm)
BOMAG	120,000 lb/220 in (54,431 kg/558.8 cm)	= 545 lb per linear inch (97.4 kg per linear cm)

Competitive PLI Ratings				
	TEREX TC550	CAT	AL-JON	BOMAG
Weight (lb) (kg)	110,000+ (49,895+)	118,000 (53,524+)	126,000 (54,431)	120,000(54,431)
Arc Length (in)** (mm)	41.3 (1,049)	44.7 (1,135)	43.2 (1,097)	43.2 (1,097)
Wheel Width (in) (mm)	35/40 (889/1,016)	55 (1,397)	55 (1,397)	55 (1,397)
Surface Area Per Wheel (in ²) (mm ²)	1,445.9/1,652.4 (36,725.8/41,970.9)	2,455.8 (62,377.3)	2,374.9 (60,322.4)	2,374.9 (60,322.4)
Total Surface Area (in ²) (mm ²)	6,196.5 (157,391.1)	9,823 (249,504.2)	9,499.6 (241,289.8)	9,499.6 (241,289.8)
PSI (kg/cm ²)	17.75 (1.25)	12.01 (0.84)	13.26 (0.93)	12.63 (0.89)
Total Wheel Width (in) (mm)	150 (3,810)	220 (5,588)	220 (5,588)	220 (5,588)
PLI (kg per linear cm)	733 (130.9)	536 (95.8)	572 (103.2)	545 (97.4)

** Arc length is calculated assuming full cleat penetration and drum penetrating 6 in (152.4 mm) from tangent point of ground.



THE TRASHMASTER TC550



HYDRAULICALLY ACTUATED HOOD

- Industry's only one-piece hood
- Allows radiator to be cleaned either from the inside or outside, by flushing it with air or water
- Heavy steel safety bar prevents accidental closure of hood during maintenance
- Rear of machine frame designed in a bevel—tapered toward the back which reduces waste build-up in the belly pan area
- Grilled doors at machine rear deflect air upward, preventing trash from blocking airflow, keeping airflow unobstructed; also making it easy to access radiator and oil cooler without raising the hood

SELF-CLEANING WHEELS AND CLEATS

- Large, self-cleaning, 85 in (2,159 mm) diameter wheels—40 in (1,016 mm) width, rear; 35 in (889 mm) width, front
- Replaceable cleats mounted in chevron pattern that prevents trash from being retained between cleats during operation; also self-cleaning cleats to discourage build-up and eliminate need for raker bars that can sap engine power and restrict ground movement
- Exclusive cleat contour design creates a crisp “chopping” action, which reduces refuse size and eliminates surface “fluffing”

ROLLOVER PROTECTION

- Provided by a certified external system rated far above machine weight

CAB PERMITTING EXCELLENT VISIBILITY

- Industry's only side-facing operator seat
- The largest cab in its class
- Side-facing operator's station and large cab windows deliver exceptionally clear view of working environment, whether in forward or reverse
- All-around windows, tinted safety glass, front and rear wipers also enhance visibility
- Better visibility ensures better results: less operator fatigue, fewer missed areas

OUTSTANDING DENSITY

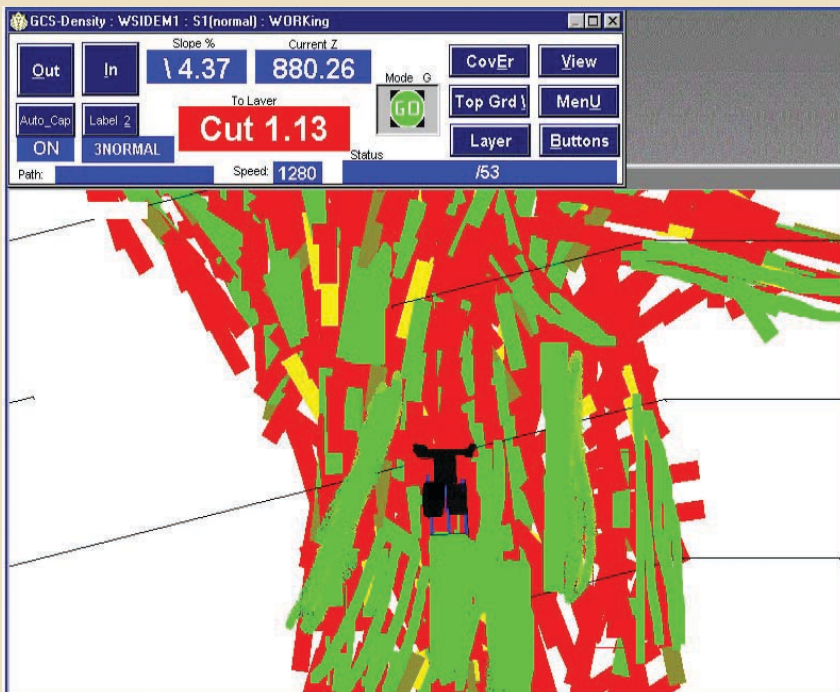
- Industry-leading density when full weight of TC550 is brought to bear on just one of its “Big Dog” forged manganese-alloy steel cleats per wheel
- Wheel configuration directs full weight of machine onto landfill surface, creating the greatest compaction force of any machine in the TC550's class

SERVICE AND MAINTENANCE

- Terex remote service monitoring available
- TC550 is extremely “mechanic friendly”
- Built to provide the most maintenance access room of any compactor available
- Hydraulic activation makes hood easy to open, in turn making it easy to service the front and rear—compare that to some other machines, where you have to unbolt cowlings to service the product
- Belly pan is the industry’s largest with two lift cylinders versus only one on competitive units

ADVANCED TECHNOLOGY

- Terex Asset Management (TAM)
- GPS Density and Slope Controls



Geologic image used with permission.

PARTS SUPPORT

- Rebuilt components to reduce costs
- Excellent dealer support program: one part number gets you everything you need for servicing—including hydraulic filters, engine oil filters, breathers, seals and service instructions
- Over \$7 million of in-stock consumable parts with one of the industry’s highest fill rates
- Your Terex dealer: your single source for TC550 sales, upgrades, parts and service

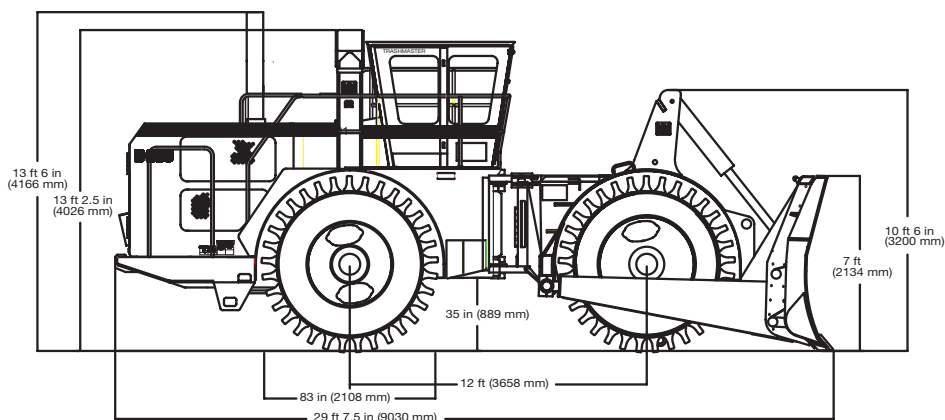
OIL SAMPLES

- Terex online oil-sample reports (terex.eoilreports.com)
- Terex will examine all oils—hydraulic and engine—for contamination (Managed Maintenance Program)
- Diagnosis provided—and, if necessary, troubleshooting
- Helps keep your TC550 running better longer

FINANCING

- Available through Terex Financial Services
- Operating lease optional for a single monthly payment

TC550 LANDFILL COMPACTOR



Shipping Specifications

Shipping weight:	up to 110,000+ lb (49,895+ kg)
Shipping height:	13 ft 2.5 in (4,026 mm)
Shipping width over guardrails:	12 ft (3,658 mm)
Shipping length:	NA
Shipping length (blade removed):	28 ft 8 in (8,738 mm)

Capacities

Engine coolant system:	33 gal (125 L)
Engine crankcase:	16 gal (45 L)
Fuel:	234 gal (886 L)
Hydraulic system:	110 gal (454 L)
Hydrostatic system:	60 gal (280 L)
Wheel ends:	25 qt (23.7 L)

Standard Equipment

Air conditioner with cab pressurizer	
Cold-weather starting	Engine-block heater
Back-up alarm	
Fire extinguisher	External start

Optional Equipment

Hydraulic oil sampling kit	Pre-lube starter kit
Terra Twist-Torque cleats	Trac-Lok cleats
Air-ride suspension seat	Fast-fill fuel kit
Inside rearview mirror	Grade indicator
Fire suppression system	External mirror
Rotating safety beacon	Vandalism kit
AM/FM radio	Hydraulic tank heater
Flexxair fan	24-volt to 12-volt converter
Fuel heater	Rear-vision camera
Big Dog cleats	

Engine

Make/Model:	Cummins® QSK-19 (19.0 L)
Type:	Diesel
Horsepower:	525 hp (391 kW) @ 2,000 rpm

Compactive Stress

Crushing (Cleat)*:	2,036 psi (143 kg/cm ²)
Compressing (Wheel)*:	up to 767 pli (137 kg/cm)

Machine Dimensions

Compaction width:	13 ft 8 in (4,166 mm)
Inside turning radius:	12 ft 4 in (3,759 mm)
Outside turning radius:	26 ft (7,925 mm)
Blade raised above grade:	48 in (1,219 mm)
Blade lowered below grade:	6 in (152 mm)
Ground clearance:	35 in (889 mm)
Operating weight*:	110,000+ lb (49,895+ kg)

Effective Date: July 2008. Product specifications and prices are subject to change without notice or obligation. The photographs and/or drawings in this document are for illustrative purposes only. Refer to the appropriate Operator's Manual for instructions on the proper use of this equipment. Failure to follow the appropriate Operator's Manual when using our equipment or to otherwise act irresponsibly may result in serious injury or death. The only warranty applicable to our equipment is the standard written warranty applicable to the particular product and sale and Terex makes no other warranty, express or implied. Products and services listed may be trademarks, service marks, or trade names of Terex Corporation and/or its subsidiaries in the USA and other countries. All rights are reserved. Terex is a registered trademark of Terex Corporation in the USA and many other countries. Copyright 2008 Terex Corporation.

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