

CAT[®]

943 953

**PUT THE PERCENTAGES
IN YOUR FAVOR...**

TRACK LOADERS



CAT

943 953

VALUE THAT PUTS MORE MONEY IN YOUR POCKET.

TRACK LOADERS

They look different—and are different

The 943 and 953 represent a major leap forward in track loader design. Conventional designs had reached the point where refinements could result in only *small* improvements in work capacity and fuel efficiency. This innovative design from Caterpillar, however, incorporates the latest technology to produce *major* improvements... dramatic breakthroughs. The 943 and 953 can work circles around any conventional loaders in their size classes... and they do it more dependably on less fuel, with less maintenance and repair expense. Result? More income, whether you earn by the hour or by the job.

Three of the biggest changes made to the 943 and 953 are...

- **Rear-mounted engine**—for better stability, comfort and improved bucket visibility.
- **Hydrostatic drive transmission**—for faster cycles, quicker response, greater work efficiency.
- **Z-bar loader linkage**—for higher breakout force.

But you'll see much more that's "unconventional" when you take a close look at what's in these machines. And at what they can do.

18% to 28% more work capacity.

Compare the 943 and 953 hydrostatic Loaders with conventionally designed models like the 941B and 951C. Look at the differences in breakout force. A 46% advantage for the 943. A 63% advantage for the 953. Enormous increases that allow digging hard material that you used to have to rip, scarify

or get a bigger machine to handle. And getting big bucket loads faster on every job. And more money in your pocket.

But specs aren't the whole story. Look how these machines actually compare on the job. The 943 gives an overall productivity advantage of 18%; the 953 a 28% advantage. In fact, the 953 equals or tops the 955L on most jobs, despite the 955L's 130 FWHP/97kW and 2.25 yd³/1.72 m³ bucket capacity.

20% to 30% greater fuel efficiency

Cat hydrostatic Loaders deliver these production advantages on less fuel. In basement excavation... a good example because it involves digging, maneuvering, climbing a ramp, traveling and dumping... the 943 moves up to 30% more dirt per gallon of fuel than the 941B. And the 953 moves 20% more per gallon than the 951C.

These are good percentages to have working in your favor. And they're all the result of Caterpillar's advanced track loader design.



943/953 COMPARISON

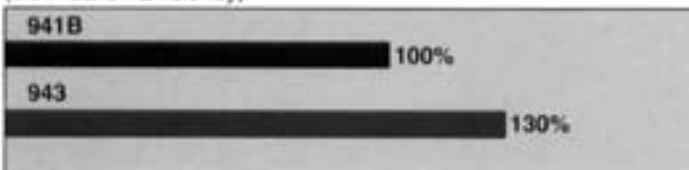
	941B	943	Percent Change	951C	953	Percent Change
Bucket Size—yd ³ m ³	1.5 1.15	1.5 1.15	0	1.75 1.34	2.05 1.53	+ 14.3%
FWHP kW	80 60	80 60	0	95 71	110 82	+ 15.8
Operating Wt.—lb. kg	25,574 11 600	25,042 11 359	-2.1	27,390 12 424	29,971 13 825	+ 9.4
Static Tipping Load—lb. kg	17,207 7805	18,402 8347	+ 6.9	17,880 8110	19,808 8985	+ 10.8
Breakout Force—lb. kg	13,740 6232	20,158 9144	+ 46.7	15,710 7126	24,861 11 277	+ 63.2
Dump Clearance at Full Lift & 45° Discharge—ft m	8'6" 2.59	8'8" 2.65	+ 2.2	9'1" 2.77	9'2" 2.80	+ 1.2

WORK CAPACITY INDEX*

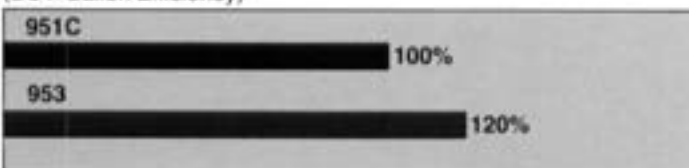
	941B	943	951C	953	955L
Bank Excavation Truck Loading	100	111	109	151	143
Basement Excavation	100	115	105	139	140
Load and Carry	100	133	137	165	173
Stockpile Truck Loading	100	106	124	140	131
Trench Backfill	100	129	152	198	175
Tight Slot Loading	100	120	122	146	149
Grading	100	124	128	164	153
Overall Productivity Index	100	120	125	158	152

*Using the 941B as the baseline machine, index reflects results of testing by Caterpillar Tractor Co. Performance relationships on your job will vary depending on material and operating conditions.

943 PRODUCTION/EFFICIENCY ADVANTAGE* (BCY/Gallon Efficiency)



953 PRODUCTION/EFFICIENCY ADVANTAGE* (BCY/Gallon Efficiency)



Materials and specifications are subject to change without notice.

CAT

943

953

DO MORE WORK...A LOT EASIER THAN EVER BEFORE.

TRACK LOADERS

The 943 and 953 respond like a natural extension of yourself, doing exactly as you wish. The Cat hydrostatic system automatically balances speed and load requirements so there's no need to change gears. Just slide the transmission lever back and forth for infinite speed selection—from a snail-like crawl to full speed. No speed gaps or pauses. You can even "inch" the machine right up against a building—something very hard to do with a conventional loader. And throughout the work cycle, the system automatically proportions power between the track and loading circuits to give you the best possible performance.

There's also power to *both* tracks at *all* times, along with counterrotation and power turn capabilities. You can do a 180° pivot turn in tight quarters—no need to jockey around or reverse out. The tracks rarely spin, even in the softest underfoot, so it's hard to get bogged down. And you stay in complete command when maneuvering on slopes.

There's no more having to carefully synchronize speed with braking when approaching a trench, truck, or building. Just move the transmission control to neutral and the brakes apply automatically. No unexpected surprise creeping. Control is fast, precise and more predictable than you've ever experienced.

Z-bar linkage and more hydraulic force mean getting heaped bucket loads faster and moving more material per hour. Hard materials... frozen banks—

more crowd power, bucket penetration and breakout force let you dig them with ease. The 943 has 46% more breakout power than the model it replaces... the 953, 63% more. Faster dumping, too, but with *modulated* control to avoid shocks to the linkage or damage to trucks.



Rear-engine design reduces the tipping and rocking experienced with conventional loaders. The rear-mounted engine balances the 943 and 953 *with a loaded bucket*. On downhill inclines as steep as 3:1, you can load without rocking forward. And back up a ramp with a full bucket without walking on the idlers. Or dump into a truck with the tracks staying flat and steady on the ground.

With no hood to look over, forward visibility is great. Dig, grade and lay material in trenches with precision. There's no need to haul around hundreds of pounds of fuel-wasting "dead iron" counterweights, either. The engine acts as the counterweight. And in hot weather, it's nice to have that engine heat behind you.

A pinned equalizer bar makes Cat hydrostatic Track Loaders smoother-riding machines, no matter where you work. It allows roller frames to oscillate and absorb shocks. Better traction, too, because the track maintains better contact with uneven ground. And that improves cycle times.



The Cat 3204 diesel Engine's power is applied efficiently at all times. And with no fuel wasting counterweight, the result is more material moved per unit of fuel.

A sound-suppressed, pressurized, resiliently-mounted ROPS cab is roomy and quiet. Equip it with a heater or air conditioner/heater for all-weather comfort. The seat is well-padded and fully adjustable. All controls are right at your armrest. And they move with fingertip ease. After running a 943 or 953, you'll never again be satisfied with a conventional loader.



Low Ground Pressure Arrangements let the 943 and 953 work where standard machines can't. They stretch the work season to earlier in the spring, later in the fall. Bad weather and poor underfoot are a lot less likely to shut you down. And they make the machine more stable and productive on steep slopes, too.



Several work tools are available to meet your specific requirements. A General Purpose bucket handles conventional digging and loading. A Multi-Purpose bucket is ideal for grading and handling pipe, beams or debris. A hinge-type ripper with three-shank beam breaks up asphalt, hard clay,



thin-layered shale and frozen ground for quick, easy loading. And its wide beam lets you scarify close to curbs and footings.

CAT

943

953

**MORE VALUE MEANS
THEY TAKE LESS SERVICE TIME
AND ATTENTION.**

TRACK LOADERS

You'll find a 943 or 953 to be the most trouble-free machine you've ever owned. It'll take fewer repairs, cost less for parts and it'll spend more time working ... over a much longer service life.

The durable Cat 3204 diesel Engine will still be going strong after years of hard work. It won't plague you with problems, either—it's built to stay trouble-free. It's got a stronger block to handle the higher horsepowers of the 943 and 953. Good heat control, too, with a large engine oil cooler and piston cooling jets to lubricate and cool pistons and rings. The crankshaft is total hardened for uniform high fatigue strength. The air cleaner inlet is engine-mounted, so there's no flexible coupling to rupture and allow dirt into the engine. Oil capacity is increased for a greater safety margin between "full" and "add". And with the engine in the rear, the radiator is away from loading debris. You won't be paying for a lot of damage from punctures and sandblasting. Makes for cooler running and a lot less cleaning, too.

Exclusive XT-6 hydraulic hose in the hydrostatic system's high pressure circuitry withstands pressures up to 6000 psi/418 bar. XT-3 hose in all other flexible hydraulic connections handles pressures to 3000 psi/207 bar. They'll outlast conventional hose. And the couplings are reusable, too.

An Electronic Monitoring System (EMS) gives a high level of downtime protection. Light-emitting diodes (LED) signal the condition of critical machine functions. Then, if there's a problem, it warns you one of three ways:

- a.) When alternator voltage drops below a predetermined level, an LED on the monitoring panel flashes.
- b.) When engine coolant or transmission oil gets too hot, both the monitoring panel LED and the main warning light flash. This warns you to change your operating mode before a component fails.
- c.) When engine oil pressure drops too low, both the red LED and the main warning light flash and a warning horn sounds. This means turn off the machine immediately to avoid engine failure.

It's easy to verify that all monitoring systems are working right with a test switch located on the dash. With EMS, it's hard to overlook a serious problem. If you've ever had a gauge fail or were too busy to notice an impending failure, then you can appreciate the value of EMS.

Stronger General Purpose buckets have internal gussets and extra bottom reinforcement to make them last a lot longer. It's easier to rebuild them, too. And the optional Corner Guard System is available to increase bucket base edge and corner wear life up to 50%.

Several job-proven Cat features on the 943 and 953 also extend life and reduce repair costs.

- **Sealed and Lubricated Track**—a Cat exclusive in the 943 and 953 size classes—increases track life by virtually eliminating internal pin-and-bushing wear.
- **Maintenance-free Lifetime Lubricated rollers and idlers** extend undercarriage life.
- **Rebuildable rollers, idlers and track links.**
- **Pivot shaft** keeps shock loads away from final drives.
- **Four-plate loader tower** with straddle-mounted



EXTRA VALUE...DAY-IN, DAY-OUT.

loader linkage and integral box-section main frame provide massive strength.

- **Sealed loader linkage** keeps out abrasive dirt, moisture and other contaminants.

Forget about spending lots of time and trouble with grease and wrenches. On the 943 and 953, many service hour intervals have been *doubled*. Loader linkage lube points have been *reduced by 40%*. Repair times, in many cases, have been *cut in half*. And what maintenance and servicing is required is faster and easier than on any track loader ever built.

Improved Service Hour Intervals

	943/953	941B/951C
Final drive oil change interval	2000 hrs.	1000 hrs.
Transmission filter change interval	1000 hrs.	500 hrs.
Transmission oil change interval	2000 hrs.	1000 hrs.

Improved Power Train Serviceability

	943/953	941B/951C
Planetary drive gear removal	3 hrs.	22 hrs.
Engine removal & installation	10 hrs.	20 hrs.
Transmission removal & installation	16 hrs.	22 hrs.

Easy access to components makes the 943 and 953 easier to service. And easier means it's more likely to get done. Costs less, too, because it's not as time-consuming.

Ground-level routine maintenance without raising the bucket—another feature you'll like on the 943 and 953. Everything except the radiator can be checked from a quick walk-around. It takes only a few minutes—about half the time it takes on conventional machines—and it covers everything up to 1000 meter hours.

Wide access doors let you reach the grouped maintenance points easily. Only one hatch and two sets of doors. All are hinged—no bolted panels to remove.

Loader linkage lubrication points have been reduced from 22 on previous models to just 13 on both the 943 and 953.

Hydrostatic transmission trouble-shooting is quick and easy. Your Cat Dealer can do 90% of it with simple visual and operational checks. Service tools handle the remainder through 14 quick disconnect fittings. Repairs can all be done locally, usually on the job... but never farther away than your Cat Dealer's shop. And needless to say, faster service means shorter downtime.

Proven serviceability ideas have been kept. The 943 has over 60% of its parts in common with other Cat machines; the 953 over 90%. The ROPS cab tilts forward 90° to allow the engine and transmission to be removed and installed—separately or as a unit. Outboard-mounted planetary final drives can be serviced without pulling the sprocket. Sprocket rim segments bolt on. And optional bolt-on bucket cutting edge and corner protection systems are available.



CAT

943 953

**IF THE IRON LOOKS GOOD, NOW
ADD IN CAT DEALER SUPPORT.**

TRACK LOADERS

Comparing machine features, work capacities and performance statistics is valuable, to be sure. But not all the value in your Cat hydrostatic Track Loader is made of iron. There are also the total CAT PLUS® services you get from your Caterpillar Dealer.

CAT PLUS stands for a superior range of dealer services that help you squeeze every nickel of profit out of your machine. It includes the industry's fastest parts availability, a Component and Parts Exchange Program, and fast, expert field and shop service to hold downtime to the bare minimum. It includes preventive maintenance programs that help eliminate surprise downtime. Job and Equipment Investment analyses help you select the best

machine for your operations. Customized and flexible financing plans make your purchase more affordable. Operator and mechanic seminars help you and your people to get the most out of your machine. And there's much more.

No dealer organization in the world offers anything close to CAT PLUS product support. It's one of the best reasons of all to buy Cat equipment.

***Get all the percentages working in your favor.
Ask your Cat Dealer to show the capabilities of
the 943 and 953 hydrostatic Track Loaders.***



CATERPILLAR®