

PANTHER T23R

DRIVEN BY **PowerForce™**
UNDERCARRIAGE



Pinotti®

BUILT TO HAUL WHERE OTHERS CAN'T



Meet the new powerhouse built for the hardest off-highway work. At its core is PowerForce™, a revolutionary undercarriage that drives terrain performance further than ever before while extending operating range. It keeps the Panther T23r moving through ground that stops other machines, steep grades, soft soils, rocks, logs, and stumps. Every run stays stable and smooth, helping you stay productive, stay comfortable, and keep going longer, even in the toughest conditions.



**Maximum Terrain
Performance**



**Longer Operating
Range**



**Unmatched Operator
Comfort**

DESIGNED FROM THE GROUND UP

VEHICLE GEOMETRY

A smart crawler architecture with balanced weight distribution, a high-strength steel structure, and an almost-centered driving position for optimal control. This design improves climbing ability, ground contact, and overall stability, creating a highly maneuverable carrier that protects terrain, reduces undercarriage wear, and offers precise control even in confined areas.

DUMPBOX

A Hardox™ steel dumpbox with a rounded profile that boosts rigidity and ensures faster, cleaner discharge. Its 23 US short tons payload capacity is supported by a telescopic cylinder that reduces system stress, improving durability while lowering vehicle weight by one ton.

POWERFORCE™

A groundbreaking undercarriage with more than 20 patent-pending technologies, precision-engineered to deliver unmatched terrain performance across the most challenging environments.

OBLONG TRACK SHAPE

A unique oblong profile that reduces bends in the track path, allowing faster track movement and more of the engine's energy to be used for actual work.

ENGINE

Powered by a CAT C7.1 high-efficiency engine recognized across the industry for its remarkable balance of power, responsiveness, and fuel economy.

CAB COMFORTS

A cab designed for superior operator comfort, with a premium air-ride seat, intuitive touchscreen display, ergonomic joystick controls, sun visor, and an optional buddy seat—creating a comfortable, efficient working environment throughout long shifts.



POWERFORCE™

ALL THE POWER. NOTHING WASTED.



PowerForce™ is the most advanced undercarriage ever built for a crawler carrier—the result of more than twenty proprietary innovations. This isn't a small upgrade; it's a major step forward in how a carrier handles real ground. By delivering unmatched traction, stability, and power transfer in punishing terrain, PowerForce™ frees contractors, fleet managers, and dealers from the performance limits that slow jobs, push up operating costs, and cut into machine availability. It gives you the capability to take on tougher ground, finish work faster and run a fleet with greater predictability and control.

PowerForce™
UNDERCARRIAGE



BENEFITS IN THE FIELD:

- Confident performance in ground conditions that typically force workarounds or second machines
- Higher daily productivity through faster travel and better power transfer
- Lower operating costs due to reduced wear and fewer component failures
- Extended operating range for longer cycles and fewer refuels
- A competitive advantage in bidding and executing difficult terrain jobs

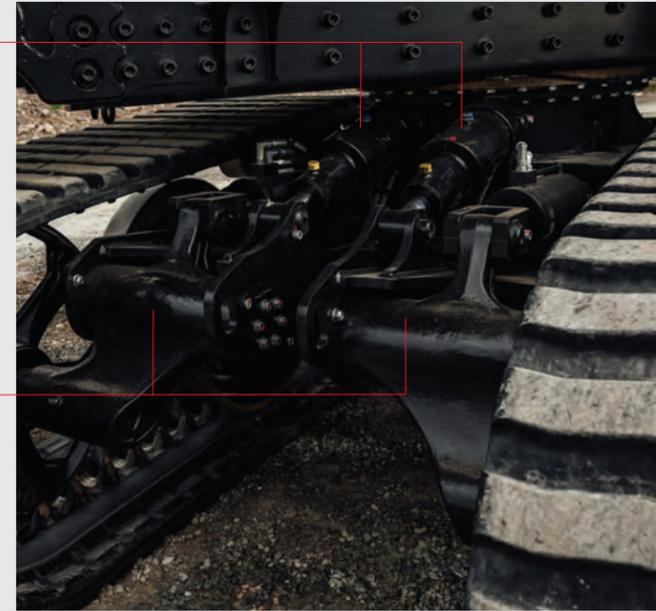


POWERFORCE TECHNOLOGIES



DUAL SETTING SHOCK ABSORBERS

Prinoth's dual-setting system automatically adapts shock stiffness to the load. It senses changes in real time and shifts between empty and loaded settings for consistent ride quality, predictable handling, and reduced component stress.



INDEPENDENT SUSPENSION

Each wheel moves on its own suspension arm with 7 inches of travel. Each arm reacts independently, keeping the track in full contact with the ground providing smoother rides, improved traction, and minimal soil disturbance.

OBLONG SHAPE TRACK

Our oblong track cuts bend points in half and doubles the bend radius, reducing power loss. More engine power reaches the ground for higher productivity enabling higher travel speeds on any terrain.



INTELLIGENT TRACK TENSIONING

The Intelligent Dual-Action Track Tensioning system constantly optimizes track tension in real time. It reduces tension when loads are light to minimize wear, and increases tension when more torque is needed, extending undercarriage life and improving performance.



PRECISION TRACK ALIGNMENT

Our track technology delivers 10x more precise track pitch than standard tracks. Engineered with precise link spacing, the system delivers smooth, reliable sprocket engagement every time. Even pressure across sprockets and crosslinks reduces wear, extending track and undercarriage life.



A CAB FOR THE OPERATOR

The T23r includes a fully redesigned cab engineered to elevate operator comfort, safety, productivity and crucially, visibility. Every element of the new layout was developed to ensure clear sightlines around the machine, supporting safer operation in demanding jobsite conditions.

KEY CAB COMFORTS INCLUDE:

- A standard air-ride seat, a unique advantage in this class
- A 7-inch touchscreen with dial job-control and engine RPM management
- Cruise-control to reduce fatigue on long hauls
- Increased legroom and improved ergonomic controls
- A robust joystick for precise rotation and dump-bed functions
- A sun visor and enhanced climate control for all-weather comfort
- Additional red handrails for safer, easier access

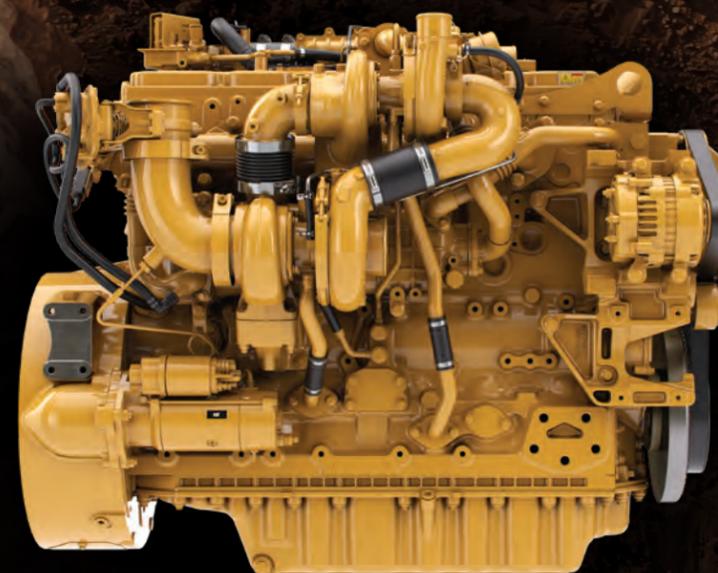
With its optimized cab geometry and unobstructed viewing angles, the Panther T23r gives operators exceptional all-around visibility—supporting confident, secure operation for both the driver and the crew around the machine. Like other Panther models, this vehicle comes with an intuitive foot pedal and steering wheel driving system which enhances all the more operator comfort during those long shifts.

OPTIMIZED POWER DELIVERY



ENGINE
CAT C7.1 Diesel

OUTPUT
320hp / 239 kW @ 1800 rpm



At the heart of the new model is the CAT C7.1, a high-efficiency engine recognized across the industry for its remarkable balance of power, responsiveness, and fuel economy. What makes this integration truly stand out is our new PowerForce™ undercarriage: by dramatically reducing rolling resistance and optimizing power transfer to the ground, the vehicle achieves high performance with a more compact engine package. The result is a lighter, quicker, and more agile machine that delivers reduced emissions, extended range, and longer service intervals, without any trade-off in capability.

PRINOTH CONNECT

Prinoth Connect underscores our commitment to elevating daily construction site operations. By leveraging innovative technology, it creates seamless connectivity and increases safety between people, teams, and machines.



FLEET MANAGEMENT



GET THE JOB DONE. KEEP YOUR FLEET RUNNING.

- Full Fleet Visibility. Track usage, status, and location from anywhere.
- Secure Data Transmission. Stay connected, even in remote areas.
- Real-time Health Updates. Spot issues before they cause downtime.

REMOTE-CONTROLLED



SAFER OPERATIONS CONTROLLED REMOTELY.

- Step out of the cab. Operate your Panther vehicle from a position where you have a clear line of sight.
- Use a portable lightweight console. Ergonomic and easy to handle.
- For temporary applications. In hazardous environments.

BUILT-IN SERVICEABILITY

MAINTENANCE ACCESS

Key maintenance points, gauges, and access doors positioned for ground-level reach — improving jobsite efficiency and helping reduce operating costs.

Ground level access to hydrostatic oil level and to hydraulic valves and pumps

Ground level servicing of air filter

Ground level filling of fuel, DEF, washer fluid and access to the water separator

Simplified, quick process for track replacement

Low-maintenance rotation joint



SERVICES PROVIDED WITH ANY PURCHASE OF PANTHER CRAWLER CARRIERS:

- Outstanding customer service and technical help through our hotline while you work.
- Prinoth Original Spare Parts: order the same parts that are utilized in the original vehicle construction.
- Online Parts Shop: order OEM parts quickly and efficiently.
- Extended warranty option

ROTATOR FAMILY COMPARISON TABLE



T9R



T14R



T23R

	T9R	T14R	T23R
Payload	17,637 lb / 8,000 kg	29,100 lb / 13,200 kg	45,195 lb / 20,500 kg
Dumpbox heaped capacity	6.5 yd ³ / 5.0 m ³	8.5 yd ³ / 6.5 m ³	15.2 yd ³ / 11.6 m ³
Speed	8.1 mph / 13 km/h	8.4 mph / 13.5 km/h	10.9 mph / 17.5 km/h
Ground Pressure			
without load	3.00 psi / 21 kPa	3.90 psi / 26.9 kPa	3.90 psi / 26.9 kPa
with load	3.5 psi / 37 kPa	7.04 psi / 48.5 kPa	7.86 psi / 54.2 kPa
Cab	Spacious Wide Cab	Spacious Wide Cab	Spacious Wide Cab
Engine	CAT C4.4 Diesel	CAT C7.1 Diesel	CAT C7.1 Diesel
Engine Power	201 HP / 150 kW @ 2200 rpm	275 HP / 205 kW @ 2200 rpm	320hp / 239 kW @ 1800 rpm
Emission Standard	EPA Tier 4 Final / EU Stage V	EPA Tier 4 Final / EU Stage V	EPA Tier 4 Final / EU Stage V
Track Type	Metal-embedded rubber tracks	Metal-embedded rubber tracks	Metal-embedded rubber track
Shipping Width	97.8 in / 2,485 mm	101.2 in / 2,570 mm	118.1 in / 3,000 mm

PANTHER T23R

 **45,195 LB • 20,500 KG**
PAYLOAD

 **10.9 MPH • 17.5 KM/H**
SPEED

 **15.2 YD³ • 11.6 M³**
CAPACITY



SPECIFICATIONS

ENGINE

Make/Model/Type	Caterpillar C7.1 Diesel engine	
Emission Level	EPA Tier 4 Final / EU Stage V	
Max Power Output	320hp @ 1800 rpm	239 kW @ 1800 rpm

TRANSMISSION

Hydrostatic variable displacement pumps and motors

UNDERCARRIAGE

Track Type	Metal-embedded rubber track (MERT)	
Track Width	33.5 in	850 mm
Ground Clearance	20.3 in	516 mm
Ground Pressure		
without load	3.90 psi	26.9 kPa
with load	7.86 psi	54.2 kPa

BRAKE

Service Brake	Spring-applied Wet Multiple Disk Brakes	
Dynamic brake	Pressure-applied Wet Multiple Disk Brakes	

PERFORMANCE

Payload	45,195 lb	20,500 kg
Travel Speed	10.9 mph	17.5 km/h
Dump Body Capacity		
Struck	12.7 yd ³	9.7 m ³
Heaped	15.2 yd ³	11.6 m ³
Shipping Weight	45,415 lb	20,600 kg
Maximum Gradeability		
Uphill/Downhill	27%	15°
Side hill	27%	15°

FLUID CAPACITIES

Diesel Fuel	97.7 gal (US)	370 l
DEF / AdBlue†	8.4 gal (US)	32 l

ELECTRICAL SYSTEM

Voltage	12 V
Alternator Capacity	150 Amp
Battery Capacity	1150 CCA (two)

EQUIPMENT

STANDARD EQUIPMENT

Operator environment

Spacious wide cab – 1 person
Tilt and telescopic steering wheel
Foot throttle pedal
Operator seat with suspension and adjustments
Air conditioning
Adjustable temperature, fan control and fresh air intake
Two-point seat belt
Front wipers with adjustable speeds
Windshield washer
Two exterior mirrors (right-side remotely adjustable)
Touchscreen 7" (178 mm) Display
Flashing LED beacon light
Pressurized hydrostatic oil tank
Lockable compartments for fluids and batteries
Hook holes on lower frame for transportation (2 front, 2 back)
Lockable door
Hydropneumatic suspension
Reversible cooling fans for radiator cleanup
Spare parts catalog
Operating and maintenance manuals

Safety

Rear and side-view cameras
Inclinometer built-in display with adjustable alarms
Parking brake linked to seat belt
Side window emergency exit
ROPS ISO 3471
Back-up alarm
Horn
First aid kit

Electrical and Lighting

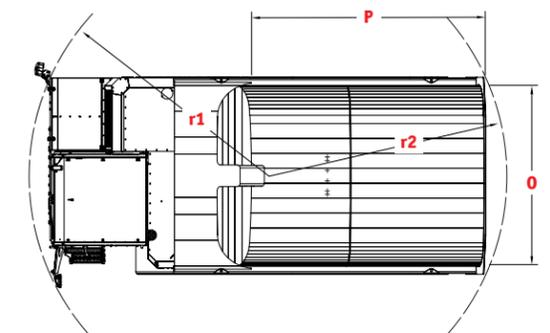
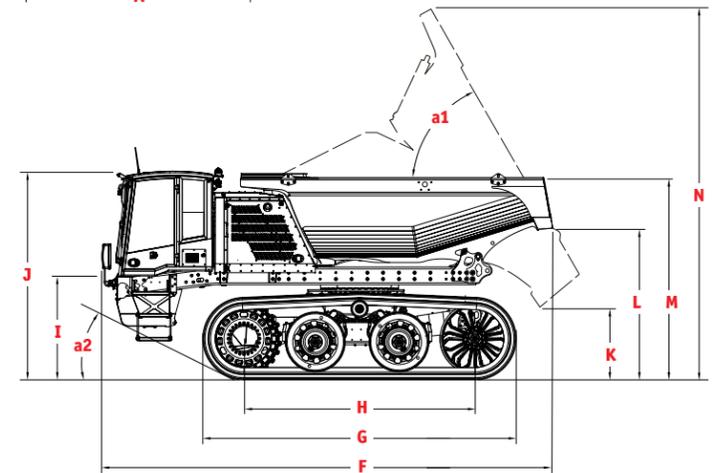
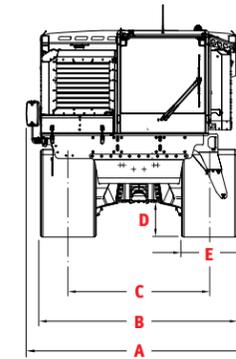
Working lights, LED (two front, one rear)
Batteries maintenance-free (two)
Battery disconnect switch

OPTIONAL EQUIPMENT

Bluetooth Radio, USB and AM/FM
Trainer seat
Heated side mirrors
FOPS ISO 3449
Engine block and hydraulic oil heaters
360 view camera
Front brushguard
Bio oil and filter
Emergency driving system
Fire extinguisher

DIMENSIONS

A	134 in	3,391 mm	H	139 in	3,522 mm	O	108 in	2,738 mm
B	118 in	3,000 mm	I	63 in	1,594 mm	P	160 in	4,070 mm
C	85 in	2,150 mm	J	125 in	3,174 mm	r1	157 in	3,980 mm
D	20 in	516 mm	K	45 in	1,132 mm	r2	129 in	3,272 mm
E	33 in	850 mm	L	98 in	2,495 mm	a1	60°	
F	264 in	6,701 mm	M	122 in	3,101 mm	a2	27°	
G	190 in	4,839 mm	N	223 in	5,660 mm			



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