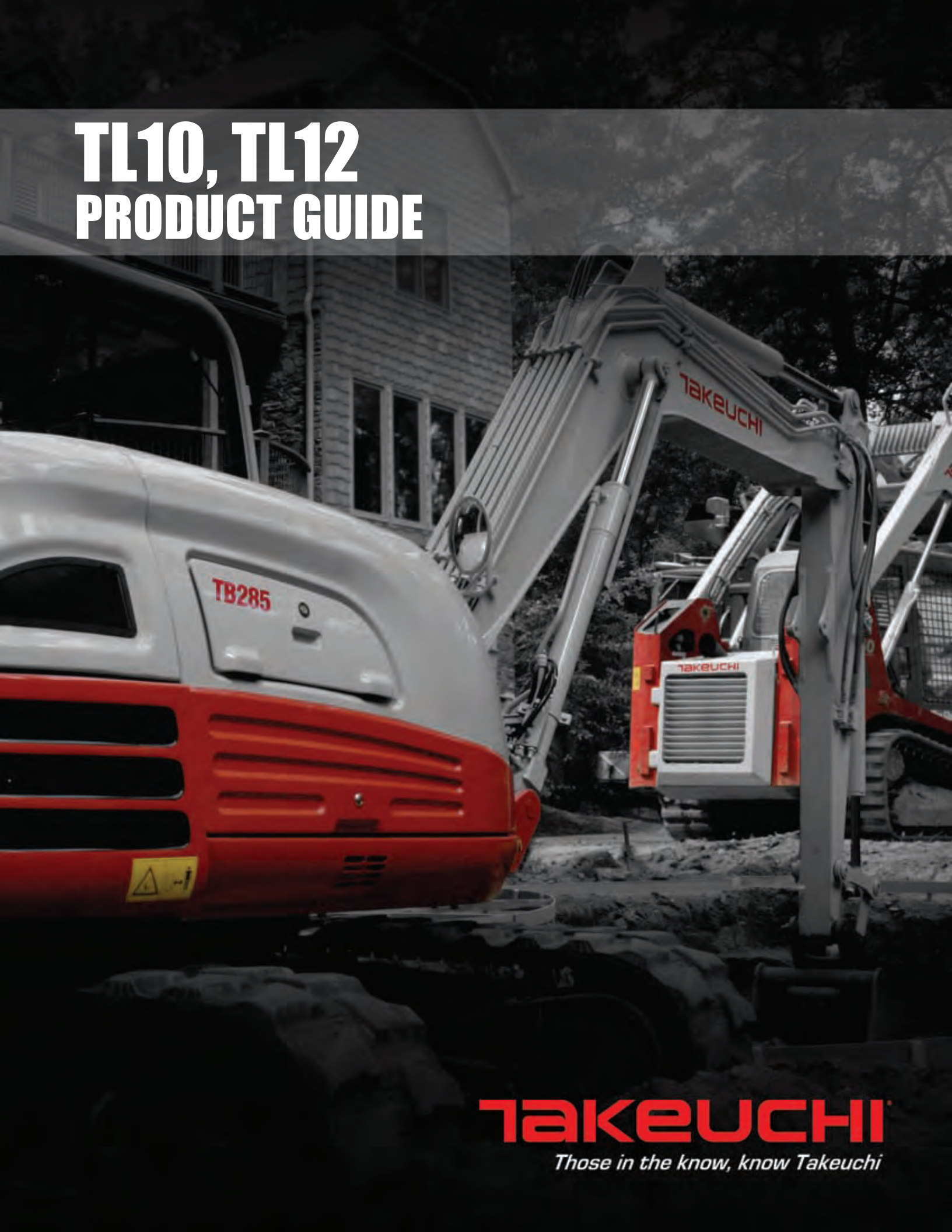
TL10, TL12
PRODUCT GUIDE



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TL10
TL12
TRACK LOADERS

The all new TL10 and TL12 are some of the most powerful compact track loaders ever manufactured by Takeuchi. These impressive loaders feature increased operating capacities, greater engine power, superior machine balance, and deliver outstanding breakout and traction forces for increased productivity. The pilot operated controls, six way adjustable suspension seat and rear pivoting seat bar with integrated arm rest reduce operator fatigue. Add an optional enclosed pressurized cab with heat, air, and defrost, and you have the ultimate in operator safety and comfort. All the features of the newly designed TL10 and TL12 are the result of extensive research, testing, and refinement and combine to make them the ideal choice to perform the most demanding jobs with complete confidence.

< KEY FEATURES >

1. **Class leading torque and horsepower** provides the power to perform most any task with confidence.

6. **Fully welded, purpose built track frame** features integrated cross members to maximize strength and durability.

2. **Eco mode** can provide up to 15% fuel savings while still offering maximum torque and great power characteristics.

7. **Cushioned arm cylinders** reduce shock and the protected cylinders and steel lines provide greater durability. Optional ride control.

3. **Steel to steel contact** between the large, heavy-duty rollers and the forged steel embeds incorporated into the rubber track.

8. **Sealed and pressurized cab** helps maintain a clean, comfortable operating environment. Roll-up door can be opened regardless of boom / attachment position and can be locked in the open position for operation.

4. **Powerful double reduction planetary drives** are positioned rearward to allow more contact points between the sprocket and track.

9. **Precision pilot controls** provide immediate response to the operator's command.

5. **Improved operating capacity** along with excellent breakout force, exceptional mid-height reach and great maximum lift and reach.

10. **Two year / 2,000 hour full machine warranty** lets you work with confidence knowing your machine is protected by one of the most comprehensive warranties in the industry today.

< MACHINE PREPARATION >

- **Pre-Delivery Inspection (PDI)** should be performed prior to machine delivery to ensure maximum machine function and performance.
- **Fuel and lubrication** should be checked prior to delivery so there are no unexpected interruptions; proper lubrication will help ensure there are no unusual sounds during machine operation.
- **Ensure all controls** and circuits function properly and that they are crisp and responsive.
- **Buckets and attachments** should be installed properly. Check that each attachment fits securely, verify that hose length is correct, ensure that the hydraulic couplers connect to the machine easily, and confirm that there are no clearance or interference problems.
- **Clean the machine** thoroughly and remove all plastic and protective coverings; the machine should look new like it is being delivered to the customer.
- **Arrive early** to ensure no one has to wait on you.
- **Be prepared** and make sure you have enough materials (specification sheets, brochures, etc.) for everyone participating in the demonstration.
- **Review the operator's manual** to ensure that **YOU** know and understand all machine features, their function and benefits.
- **Position the machine properly to allow for an orderly presentation. Takeuchi recommends the following:**
  1. **Remove the bucket** and set it beside the loader and demonstrate the coupler function at the appropriate time.
  2. **Position the loader arms down** and roll the quick hitch plate slightly forward for easier viewing and access around the machine
  3. **Unbolt the canopy / cab** and leave in the down position with one bolt hand tight. Reinstall and tighten all bolts prior to operating: 19 mm socket.
  4. **Slide the seat** to its farthest rearward position so the customer can appreciate the spaciousness of the canopy / cab.
  5. **Raise the seat** to its highest position so you can demonstrate the multiple height adjustments and visibility to the bucket edge.
  6. **Engine cover and rear door** should be unlocked and remain closed until you are ready to discuss.

< UNDERCARRIAGE >

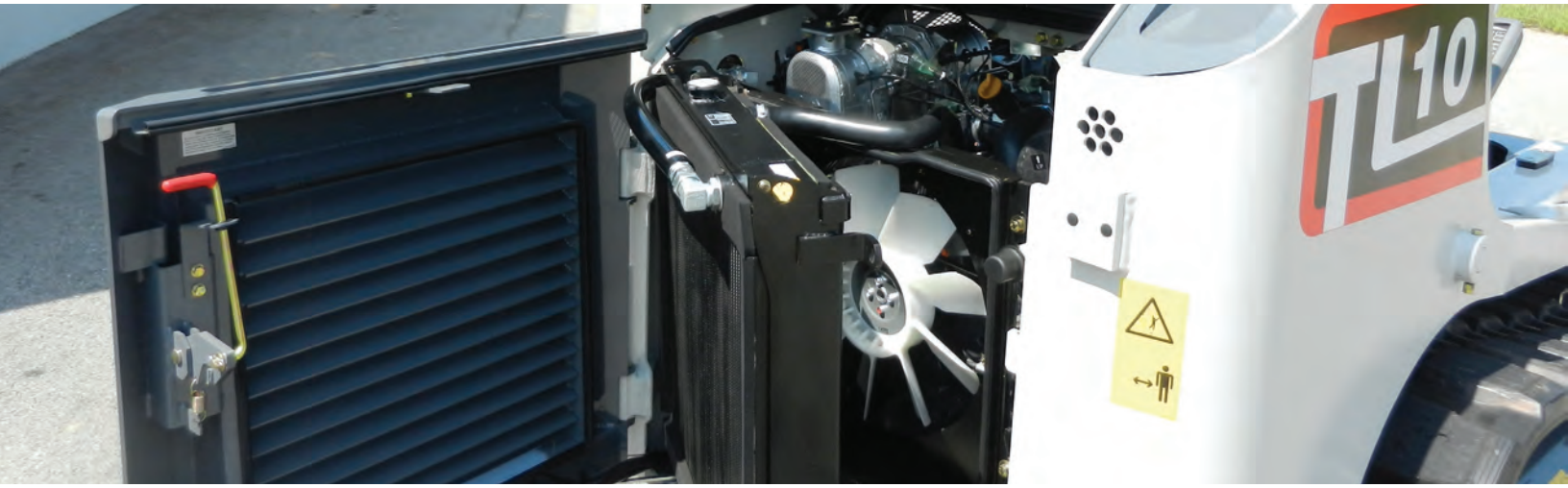
- **Front idler rollers** are robust and allow for larger bearings resulting in slower shaft speeds extending component life.
- **Permanently sealed rollers** are low maintenance and feature metal face seals for durability.
- **Forged steel mandrels** provide reinforcement and strength to the outer edge of the track helping to reduce stress and improve durability.
- **Takeuchi tracks** feature proprietary steel contact pads that ensure metal on metal contact between the rollers and the track for longer life in extreme environments.
- **Track loader frames** are purpose built and feature integrated cross members and thick steel reinforcements to ensure product longevity.
- **Large sprockets** are positioned to the rear of the machine
  to ensure that a greater number of teeth are in contact with the mandrels reducing stress on the track and increasing torque potential.
- **Double reduction planetary drives** generate a great amount of traction force allowing the machine to power through tough applications.
  Initial 250 hours, then every 500 hours.
- **Two-Speed travel** is standard equipment.
- **Track tension** is easily adjusted using a grease gun.
  Every 50 hours.
- **Drive motor hoses** are well protected by a bolt on cover.

= Service Interval

HELPFUL TIP

UNSURPASSED DURABILITY

- The Takeuchi undercarriage is unsurpassed when it comes to durability and performance. The extreme duty components include forged steel mandrels embedded into the track and large track rollers that use oversized bearings that are permanently sealed using a high performance, metal-face seal that has proven tough in extreme conditions while the overall design provides exceptional component life.
- The metal on metal contact between the track and rollers follows the same theory of durability as larger crawler dozers and results in an undercarriage system that allows operation in a greater range of material while still providing the versatility of a rubber track system.



< REAR >

- **EPA compliant engines** are turbocharged, feature common rain injection systems, deliver more HP and torque than earlier models, and include a DPF and CEGR to reduce particulate and NOx emissions.

  TL10: EPA Interim Tier 4
  TL12: EPA Interim Tier 4

- **Engine features multiple working modes** allowing the operator to match engine performance to the application:

  ECO MODE can provide up to 15% fuel savings while providing maximum torque and good power.

  NORMAL MODE offers a good blend of power and performance for general applications.

  POWER MODE supplies peak engine power and performance for the most demanding jobs.

- **Lockable rear access cover** for added peace of mind and good serviceability.
- **Perforated cover** allows cool, fresh air in and the rain deflector protects the engine, air filter, and alternator.
- **Heavy duty rear door** protects the coolers and engine from damage and swings open providing access to service points.
- **Rear door latch** automatically engages to hold the rear door open for improved access.
- **Rear mounted mirror** improves rear visibility and safety.
- **Side-by-side radiator and oil cooler** are very efficient and provide outstanding cooling performance ensuring long component life.
- **Sloped rear towers** feature rear-facing work lights, and the left tower has a service panel that opens for access to the large hydraulic reservoir and filter.
- **Cab equipped** machines have the a/c condenser mounted in the right tower.
- **High flow option** on equipped models will have an additional control valve mounted in the right tower.
- **Optional rear counterweight mounts** allow for additional operating capacity and greater stability:

  TL10
  575 lb. additional weight.
  ROC increased to 2,723 lbs.

  TL12
  575 lb. additional weight.
  ROC increased to 3,263 lbs.

- **Emission control features** of the engine include a Diesel Particulate Filter (DPF), which is located in place of the muffler, electronically controlled high-pressure common rail injection, and a Cooled Exhaust Gas Recirculation System (CEGR).
- **Cooler mount swings** out providing access to both sides of the radiator and hydraulic oil cooler (and intercooler on TL12), engine, and battery. Mount swings out by removing two bolts on the right side: 19 mm socket required.

< REAR continued >

- **Automatic fuel bleed system** eliminates need for a costly service call if the machine runs out of fuel.
- **Pre-cleaner** is standard equipment on Takeuchi compact track loaders and help extend filter life by up to 50% when compared to standard filtration systems.
- **Dual element air cleaners** are mounted in a filter housing that tilts up providing unobstructed access to the filters.
- **Long life engine coolant** reduces maintenance and preserves the efficiency of the cooling system.
  Every 1000 hours.
- **Hydraulic return filter** is located inside the tank for easy servicing.
  Initial 50 hours, then every 500 hours.
- **High capacity hydraulic tank** keeps hydraulic oil cooler improving component life.
- **Hydraulic oil sight gauge** allows quick and easy inspection of hydraulic oil level.
- **Three large belly pans** simplify maintenance and cleaning.
- **Smaller removable panels** allow access to environmentally friendly fluid drains for the oil and coolant and help eliminate spills during maintenance.
- **Battery** is located in the right tower with easy access to the positive (+) terminal.
- **Tilt operator's station** by removing four bolts located in the forward part of the operator's station for service and maintenance.
- **Several service points** are placed under the cab to provide convenient access to the items in one location, and tilting the cab also provides the opportunity to inspect the machine for leaks and to clean any debris from the belly pan. Service points accessed by tilting the cab include:

  ENGINE OIL FILTER
  Initial 50 hours, then every 250 hours.

  HYDRAULIC PILOT LINE FILTER
  Initial 50 hours, then every 500 hours.

  FUEL FILTERS
  Every 500 hours.

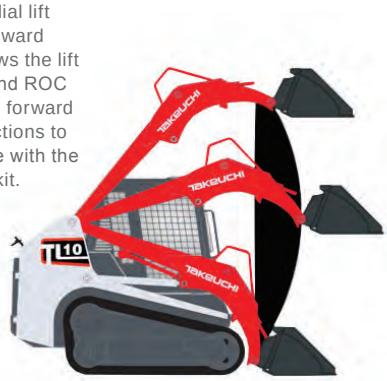
< LEFT SIDE >

- **Rear towers provide exceptional strength** and are part of the one-piece frame for excellent rigidity.
- **Radial boom design** provides superior strength, higher breakout force, exceptional mid-height reach and great maximum lift and reach.
- **Bucket positioning** (self leveling) when raising.
- **Large pivot pins** are supported on both ends to ensure long life and durability.
- **Grease points** at each pin location are easily accessed.
- **Substantial side screens** promote air circulation and simplify cleaning.
- **Steel hydraulic lines** help disperse heat and are exceptionally durable.
- **Hydraulic hoses** are well protected from damage.
- **Maintenance strut** can be engaged and disengaged without the operator having to risk exposure to an unsupported boom providing added peace of mind.
- **Heavy duty fenders** protect the machine and cylinders without obstructing operator visibility.
- **Optional ride control** eliminates porpoising allowing customer to retain more material in the bucket for increased production over rough terrain.

HELPFUL TIP

RADIAL BOOM AND FULLY INTEGRATED FRAME

- Takeuchi's radial boom design provides superior strength and has the power to perform some of the most demanding jobs.
- Our radial boom design also supplies excellent maximum lift and reach while delivering superior mid-height reach and can easily compete with competitor's vertical lift designs.
- Combining the powerful boom and fully integrated frame provides a superior grading and excavating machine that has the all around power and long term durability.
- When comparing to vertical lift designs, you may find that the Rated Operating Capacity (ROC) specification is higher than machines with a radial lift path. This is the result of the forward movement of the load as it follows the lift path. During the static tipping and ROC test the load is positioned in the forward most point of the lift path. Objections to the ROC can often be overcome with the optional bolt-on counterweight kit.



< FRONT >

- **Two front work lights** enhance visibility in low light conditions.
- **Large bolt-on grab handles** and non-skid step enable the operator to easily and confidently enter and exit the machine. The bolt-on handles can be easily replaced if damaged.
- **Universal mechanical quick attach** accepts a wide range of attachments and it is built to withstand the breakout forces generated by the boom and arm.
- **Hydraulic quick attach** is standard equipment on all cab models and optional on canopy models.
- **Adjustable bucket stops** are easy to adjust as they wear for added convenience.

  Every 500 hours.
- **Boom stops** are positioned to distribute excavating forces directly to the track frame for better durability and performance.
- **Standard flat faced coupler** body is pressure releasing so it is easier to connect attachments.
- **High flow models** feature ¾" and ½" flat face couplers that release trapped pressure by moving the red lever up and down prior to connecting and disconnecting.

  TL10HF: 36.6 gpm
  TL12HF: 40.0 gpm
- **Secondary auxiliary circuit** is also included on machines equipped with the high flow feature, which allows the operation of many 5-line attachments. Provides 17 gpm (64.5 Lpm).
- **14-pin connector** is controlled using the multi-function control handle and provides attachment versatility.
- **Operator's station** tilts back providing easy access to key components.

< OPERATOR'S STATION >

- **Operator's compartment** is spacious and provides unequalled comfort and visibility.
- **Dual rearview mirrors** inside cab and exterior mirror for viewing rear of machine.
- **Added operator protection** on canopy and cab models:
  ROPS: Roll Over Protective Structure
  FOPS Level 1: Falling Object Protective Structure
- **Retractable 2" seat belt**.
- **Optional seat belts:**
  Three inch retractable
  Two inch, three-point retractable
- **High back suspension seat** features adjustments for height, weight, and position.
- **Lap bar** features built-in arm rests for additional operator comfort.
- **Pilot controls** are low effort and smooth and allow the operator to have precise control for safe operation.
- **Key switch** – Rotate counterclockwise for engine preheat position.
- **Light switches** for front and rear halogen work lights.
- **Hand throttle** is easily accessible and easy to use.
- **Foot throttle** is a standard feature that allows for increased economy and greater precision.
- **Gauge cluster** and engine monitoring system provides warning lights, gauges, and audible alarms to keep the operator informed.
- **Optional control pattern selector valve** allows the operator to choose Standard Takeuchi controls or "H" pattern controls.
- **Spacious floorboard** includes foot rests for improved operator comfort along with a foot throttle for added convenience.
- **Additional rocker switch** provides in-cab control of the "G" and "H" pins on the 14-pin connector providing more versatility when using electrohydraulic-controlled attachments.
- **Optional cab** is pressurized and features improved blower fan and HVAC performance, heater, windshield wiper, washer, roll-up door, storage compartments and is radio ready.
- **Roll-up door** features gas spring lift assist and allows the door to be opened at any time regardless of the boom / attachment position.
- **High flow models** come standard with ½" Lexan door for additional operator protection when using attachments.
- **Optional** heavy duty AM / FM / MP3 weather band radio.

< LEFT SIDE OF CAB >

- **Proportional slide switch controls** located on the left handle allow metering and feathering of auxiliary attachments.
- **Momentary push buttons** are also provided (located below the slide switch) and provide on / off control of the auxiliary hydraulics.
- **Trigger button** controls the two-speed travel.
- **Detent for 1st auxiliary circuit** is standard and simplifies the operation of motorized attachments, (Amber switch) and only works with the “A” button.
- **One-way flow switch** prevents the “B” line from pressurizing. Useful when operating single direction attachments like a hammer or trencher (Green switch).
- **Wiper control** (Cab Option).
- **Hydraulic quick hitch** (Cab Option) allows the operator to switch attachments without leaving the cabin.
- **HVAC controls** (Cab Option) ensure operator comfort throughout the year.
- **Door release lever** (Cab Option) for opening and closing the overhead door. (NOTE: when operating with the door in the open position, engage the secondary safety latch on the left rear corner of the overhead door)

< RIGHT SIDE OF CAB >

- **Instrument panel** features new coolant temperature and fuel gauges, new icons for engine power mode, eco mode, hydraulic temperature, engine fault, bucket float, auxiliary hydraulic work mode, data center (hour meter, trip data, tachometer, auxiliary flow settings, error codes).
- **New cab controls** include switches for emergency engine shutdown, data center navigation switch, optional ride control on / off switch, 2nd auxiliary selector (high-flow only), 14-pin “G” and “H” control, auxiliary hydraulic mode selector, regeneration mode selector, and engine mode selector.
- **Variable flow auxiliary hydraulics** offers three easy-to-select settings that can be programmed to match the flow requirements of the attachment.

  Setting I – 100% of flow
  Setting II – 0-100% - Factory default is 75%
  Setting III – 0-100% - Factory default is 50%
- **Multi function controls** for the 14-pin connector.
- **Boom float** with detent (see manual for detailed instructions).
- **Horn button** (outer button).
- **High flow switch is** used to engage the one-way flow feature. Must be used with the “A” button auxiliary control and can also be used in conjunction with the continuous “Detent” mode.

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SPECIFICATIONS

OPERATING PERFORMANCE

Operating Weight Standard Machine with Bucket	
Canopy	10,318 lb (4,680 kg)
Cab	10,516 lb (4,770 kg)
Tipping Load	6,867 lb (3,115 kg)
Rated Operating Capacity, SAE J818*	2,403 lb (1,090 kg)
Operating Load at 50% of Tipping Load	3,434 lb (1,558 kg)
Operating Capacity w / Opt Counterweight	2,723 lb (1,235 kg)
Bucket Breakout Force	7,400 lb (3,357 kg)
Lift Arm Breakout Force	7,425 lb (3,368 kg)
Traction Force	11,067 lb (5,020 kg)
Capacity SAE Heaped (Optional Bucket)	20.3 cu ft (.059 m³)
Cycle Time:	
Raise Full Load	4.6 Seconds
Lower No Load	3.0 Seconds
Dump Full Load	3.0 Seconds
Curl No Load	2.0 Seconds

*Operating capacity of compact track loaders is rated according to SAEJ818 at no more than 35% of the tipping load

ENGINE

Make / Model	Kubota / V3800CR Turbocharged
Cylinders / Displacement	4 / 230 cu ft (3.8 L)
Horsepower Gross (SAE J1995)	92.0 hp (68.6 Kw)
Horsepower Net (ISO 14396)	90.7 hp (67.6 Kw)
Rated / Maximum Engine Speed	2,400 rpm / 2,600 rpm
Maximum Torque	247 ft-lb (335 Nm)
Engine Lubrication	13.9 qt (13.2 L)
Cooling System	16.4 qt (15.5 L)
Fuel Tank Capacity	23.8 gal (90.0 L)
Fuel Consumption, 65% of full load	3.35 gal / hr (12.7 L / hr)
Electrical System	12 volts / 80 amps

UNDERCARRIAGE

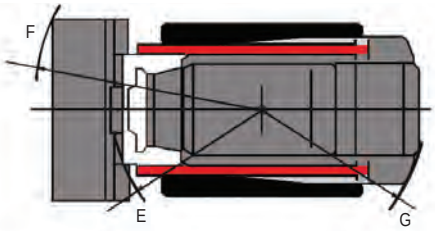
Traction Drive Type	Hydrostatic w / Double Reduction Planetary Final Drive
Parking Brake	Spring Applied, Hydraulically Released
Track Roller Type	Permanently Sealed Rollers
Track Rollers	5 per side
Track Width	17.7 in (450 mm)
Ground Pressure:	
Canopy	4.4 psi (30.1 kPa)
Cab	4.5 psi (30.7 kPa)
Maximum Travel Speed:	
Low	4.6 mph (7.4 km / hr)
High	7.2 mph (11.6 km / hr)

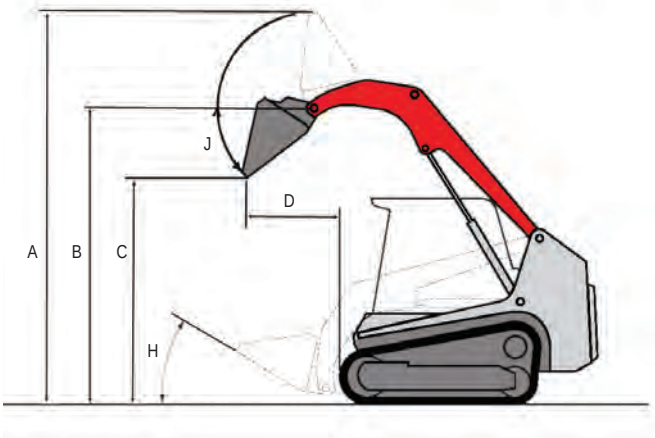
HYDRAULIC SYSTEM

Hydraulic Reservoir Capacity	12.7 gal (48 L)
Hydraulic System Capacity	19.5 gal (74 L)
Auxiliary Flow - Primary Circuit	20.0 gal / min (75 L / min)
Auxiliary Flow - Optional High Flow	36.0 gal / min (137 L / min)
Auxiliary Flow - Optional 2nd Circuit	17.0 gal / min (64.5 L / min)
Hydraulic System Pressure	3,046 psi (21.0 MPa)

WORKING DIMENSIONS

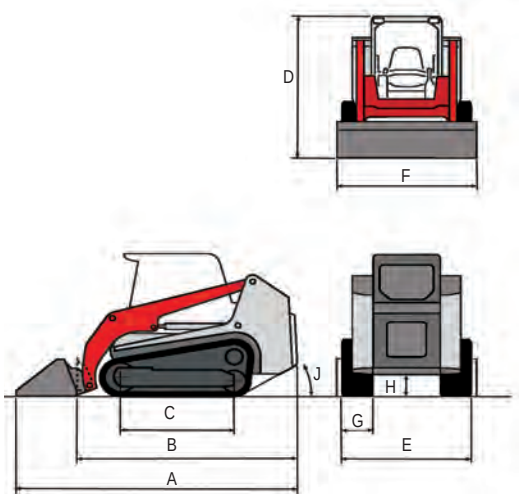
A. Overall Operating Height	13 ft 4.7 in (4,081 mm)
B. Maximum Lift Height to Bucket Pin	10 ft 2.9 in (3,122 mm)
C. Dump Height Fully Raised	7 ft 10.8 in (2,407 mm)
D. Dump Reach Fully Raised	2 ft 10.4 in (875 mm)
E. Clearance Circle without Bucket	4 ft 11.1 in (1,500 mm)
F. Clearance Circle with Bucket	7 ft 6.3 in (2,293 mm)
G. Clearance Circle, Rear	5 ft 6.3 in (1,683 mm)
H. Maximum Bucket Rollback at Ground	30.7°
J. Maximum Dump Angle Fully Raised	38.5°





MACHINE DIMENSIONS

A. Transport Length	12 ft 6 in (3,810 mm)
B. Machine Length	9 ft 9.3 in (2,980 mm)
C. Track Ground Contact Length	4 ft 10.9 in (1,495 mm)
D. Overall Height	7 ft 5 in (2,270 mm)
E. Overall Width w / out Bucket	5 ft 9.7 in (1,770 mm)
F. Recommended Bucket Width	76.0 in (1,930 mm)
G. Track Width	17.7 in (450 mm)
H. Ground Clearance	12.8 in (326 mm)
J. Angle of Departure	30°



PRODUCT FEATURES

ENGINE

– EPA Interim Tier 4 Compliant
– Automatic Fuel Bleed System
– Extended Life Coolant
– Dual Element Air Filter with Pre-Cleaner

ELECTRICAL

– Machine Monitoring System w / Fuel and Coolant Temperature Gauge
– 12 volt System with 80 amp Alternator
– Halogen Work Lights, Front and Rear
– Engine Preheat
– Hour Meter
– Back-up Alarm

UNDERCARRIAGE AND FRAME

– Permanently Sealed Track Rollers with Metal Face Seals
– Welded Track Frame with Multiple Cross Members
– 2-Speed Travel
– 17.7" Rubber Track with Integrated Steel Cables and Forged Steel Inserts
– Grease Type Track Adjuster

HYDRAULIC

– Cushioned Boom Cylinders
– Boom Float with Detent
– Pilot Proportional Hydraulic Controls
– Pressure Relieving Flat Faced Coupler Body
– 14-Pin Connector with Push Button Control
– Hydraulic Self Leveling
– High Flow Auxiliary Hydraulics 36 gal / min (optional)
– Secondary Auxiliary Circuit (optional)
– Ride Control (optional)
– Control Pattern Change Valve (optional)

WORKING EQUIPMENT

– Radial Boom Design
– Mechanical Quick Coupler
– Hydraulic Quick Coupler (optional)
– 76" HD Smooth Lip Dirt Bucket (20.3 cu ft) (optional)
– 76" HD Dirt Bucket with (8) Teeth (20.3 cu ft) (optional)
– 7' Six Way Dozer Blade (optional)
– HD 48" Pallet Forks and Frame (optional)
– Counterweight Kit (575 lbs) (optional)

OPERATOR'S STATION

– Tilt-up Operator Station
– Pilot Operated Controls
– Six-way Adjustable Suspension Seat
– Rear Pivoting Seat Bar w / Integrated Arm Rests
– Retractable Seat Belt
– ROPS / FOPS Structure
– Pressurized Cab with Roll Up Door, Air Conditioning, Heat, Defrost and Wiper (optional)
– 3" Seat Belt (optional)
– 3 Point Seat Belt (optional)
– AM / FM / MP3 Radio w / NOAA Weatherband (optional)

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	Takeuchi TL10	ASV / Terex PT-80	Bobcat T650 M	Bobcat T750 M
Performance				
Loader Boom Design	Radial	Radial	Vertical	Vertical
Operating Weight	10,318 lb	8,972 lb	9,015 lb	10,327 lb
Tipping Load	6,867 lb	6,200 lb	6,714 lb	9,500 lb
Operating Capacity*	2,403 lb	2,170 lb	2,350 lb	3,325 lb
Bucket Breakout Force	7,400 lb	NP	NP	NP
Lift Arm Breakout Force	7,425 lb	NP	NP	NP
Traction Force	11,067 lb	NP	NP	NP

* Operating capacity of track loaders to be rated according to SAE J818 at no more than 35% of the tipping load

Engine				
Make / Model	Kubota / V3800CRT	Perkins / 804D-33T	Kubota / V3307DI-T	Kubota / V3800DI-T
Tier Rating	EPA Tier 4i	EPA Tier 3	EPA Tier 4i	EPA Tier 4i
Horsepower Gross (SAE J1995)	92.0 hp	83.0 hp	74.3 hp	85.0 hp
Rated Engine Speed	2,400 rpm	2,600 rpm	NP	NP
Maximum Torque	247.0 ft-lb	195.0 ft-lb	NP	NP
Undercarriage				
Track Width	17.7"	18.0''	12.6''	17.7''
Track Ground Contact Length	58.9"	71.0''	59.0''	63.7''
Ground Pressure	4.4 psi	3.5 psi	6.3 psi	4.2 psi
Travel Speed Low Range	4.6 mph	7.0 mph	6.6 mph	6.6 mph
Travel Speed High Range	7.2 mph	12.5 mph	10.7 mph (Optional)	10.7 mph (Optional)
Hydraulic System				
Hydraulic Reservoir Capacity	12.7 gal	NP	NP	NP
Auxiliary Flow – Standard	19.5 gpm	17.4 gpm	23.0 gpm	23.0 gpm
Auxiliary Flow – High Flow Option	36.0 gpm	30.0 gpm	30.5 gpm	36.5 gpm
Hydraulic System Pressure	3,046 psi	3,000 psi	3,500 psi	3,500 psi
Dimensions				
Front Clearance Radius with Bucket	7' 6.3"	NP	NP	NP
Rear Clearance Radius	5' 6.3"	NP	NP	NP
Max. Lift Height to Bucket Pin	10' 2.9"	10' 5"	10' 4"	11' 0"
Dump Height Fully Raised	7' 10.8"	8' 3"	NP	NP
Reach Fully Raised	2' 10.4"	NP	2' 10.2"	2' 9.6"
Overall Width Without Bucket	69.7"	70.0"	72.9''	78.0"
Overall Height	7' 5"	7' 3"	6' 9.3"	6' 9.3"
Minimum Ground Clearance	12.8"	15.0"	9.2"	9.2"

COMPETITIVE DETAILS

TL10 Track Loader

Case TR320	Caterpillar 279C SERIES 2	Caterpillar 289C SERIES 2	John Deere 329D	Kubota SVL90
Radial	Radial	Vertical	Vertical	Vertical
9,600 lb	9,865 lb	10,332 lb	10,830 lb	10,915 lb
6,400 lb	6,100 lb	7,300 lb	8,300 lb	8,600 lb
2,240 lb	2,135 lb	2,555 lb	2,900 lb	3,010 lb
6,125 lb	7,308 lb	7,308 lb	10,325 lb	7,961 lb
8,585 lb	NP	NP	4,600 lb	6,742 lb
9,270 lb	NP	NP	11,500 lb	NP
FPT / 432T-M3	Cat / C3.4T	Cat / C3.4T	Deere / E5030HT	Kubota / V3800DT-T
EPA Tier 3	EPA Tier 4i	EPA Tier 4i	EPA Tier 3	EPA Tier 3
90.0 hp	74.0 hp	74.0 hp	85.0 hp	90.0 hp
2,675 rpm	NP	NP	2,200 rpm	2,400 rpm
251.0 ft-lb	NP	NP	221.0 ft-lb	NP
15.7"	NP	NP	15.7"	17.7"
63.1"	64.0"	64.0"	NP	NP
4.8 psi	4.3 psi	4.5 psi	5.0 psi	4.2 psi
5.8 mph	5.0 mph	5.0 mph	6.2 mph	5.0 mph
8.3 mph (Optional)	8.5 mph	8.5 mph	7.8 mph (Optional)	7.3 mph
5.9 gal	11.0 gal	11.0 gal	NP	10.1 gal
22.5 gpm	22.0 gpm	22.0 gpm	21.0 gpm	25.1 gpm
34.6 gpm	33.0 gpm	33.0 gpm	33.0 gpm	36.5 gpm
3,000 psi	3,335 psi	3,335 psi	3,450 psi	3,555 psi
7' 1.5"	7' 4"	7' 4"	7' 1.4"	NP
5' 10.4"	5' 8"	5' 9.3"	NP	NP
10' 6.5"	10' 3.1"	10' 7.5"	10' 6"	10' 8.6"
8' 6.2"	7' 11"	8' 0"	NP	NP
1' 9.2"	1' 11"	2' 6.7"	2' 8"	3' 4"
76.0"	78.0"	78.0"	78.7''	77.2"
6' 8.4"	6' 11"	6' 11"	7' 1"	6' 7.4"
9.5"	9.1"	9.1"	10.4"	11.8"

TL230 SERIES 2

TL10

TL12

TW50

TW65

TW80

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SPECIFICATIONS

OPERATING PERFORMANCE

Operating Weight Standard Machine with Bucket	
Canopy	11,618 lb (5,270 kg)
Cab	11,850 lb (5,375 kg)
Tipping Load	8,102 lb (3,675 kg)
Rated Operating Capacity, SAE J818*	2,833 lb (1,285 kg)
Operating Load at 50% of Tipping Load	4,051 lb (1,838 kg)
Operating Capacity w / Opt Counterweight	3,263 lb (1,480 kg)
Bucket Breakout Force	8,670 lb (3,932 kg)
Lift Arm Breakout Force	8,550 lb (3,877 kg)
Traction Force	13,766 lb (6,244 kg)
Capacity SAE Heaped (Optional Bucket)	24.0 cu ft (.068 m³)
Cycle Time:	
Raise Full Load	4.6 Seconds
Lower No Load	2.8 Seconds
Dump Full Load	3.1 Seconds
Curl No Load	2.3 Seconds

*Operating capacity of compact track loaders is rated according to SAE J818 at no more than 35% of the tipping load

ENGINE

Make / Model	Kubota / V3800CR Turbo Intercooled
Cylinders / Displacement	4 / 230 cu ft (3.8 L)
Horsepower Gross (SAE J1995)	110.0 hp (82.0 Kw)
Horsepower Net (ISO 14396)	108.4 hp (80.8 Kw)
Rated / Maximum Engine Speed	2,400 rpm / 2,600 rpm
Maximum Torque	277 ft-lb (375 Nm)
Engine Lubrication	13.9 qt (13.2 L)
Cooling System	17.4 qt (16.5 L)
Fuel Tank Capacity	23.8 gal (90.0 L)
Fuel Consumption, 65% of full load	3.70 gal / hr (14.0 L / hr)
Electrical System	12 volts / 80 amps

UNDERCARRIAGE

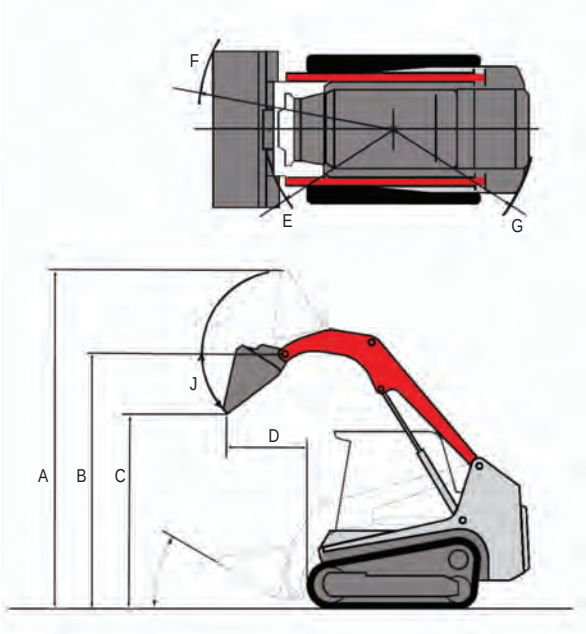
Traction Drive Type	Hydrostatic w / Double Reduction Planetary Final Drive
Parking Brake	Spring Applied, Hydraulically Released
Track Roller Type	Permanently Sealed Rollers
Track Rollers	6 per side
Track Width	17.7 in (450 mm)
Ground Pressure:	
Canopy	4.6 psi (32.0 kPa)
Cab	4.7 psi (32.6 kPa)
Maximum Travel Speed:	
Low	4.9 mph (7.9 km / hr)
High	7.4 mph (11.9 km / hr)

HYDRAULIC SYSTEM

Hydraulic Reservoir Capacity	15.9 gal (60 L)
Hydraulic System Capacity	25.1 gal (95 L)
Auxiliary Flow - Primary Circuit	23.0 gal / min (88 L / min)
Auxiliary Flow - Optional High Flow	40.0 gal / min (153 L / min)
Auxiliary Flow - Optional 2nd Circuit	17.0 gal / min (64.5 L / min)
Hydraulic System Pressure	3,046 psi (21.0 MPa)

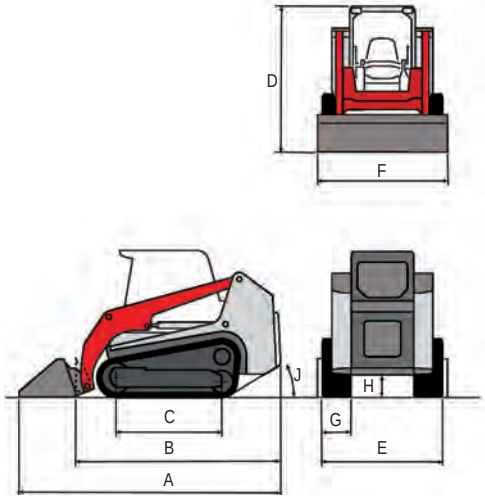
WORKING DIMENSIONS

A. Overall Operating Height	13 ft 11.2 in (4,247 mm)
B. Maximum Lift Height to Bucket Pin	10 ft 6.1 in (3,203 mm)
C. Dump Height Fully Raised	7 ft 11.7 in (2,432 mm)
D. Dump Reach Fully Raised	3 ft 2.8 in (986 mm)
E. Clearance Circle without Bucket	5 ft 1.4 in (1,559 mm)
F. Clearance Circle with Bucket	7 ft 11.8 in (2,434 mm)
G. Clearance Circle, Rear	5 ft 9.1 in (1,788 mm)
H. Maximum Bucket Rollback at Ground	31.4°
J. Maximum Dump Angle Fully Raised	38.7°



MACHINE DIMENSIONS

A. Transport Length	13 ft 0.9 in (3,985 mm)
B. Machine Length	10 ft 3.4 in (3,135 mm)
C. Track Ground Contact Length	5 ft 2.8 in (1,595 mm)
D. Overall Height	7 ft 7.3 in (2,320 mm)
E. Overall Width w / out Bucket	6 ft 1.2 in (1,860 mm)
F. Recommended Bucket Width	80 in (2,032 mm)
G. Track Width	17.7 in (450 mm)
H. Ground Clearance	13.5 in (344 mm)
J. Angle of Departure	30°



PRODUCT FEATURES

ENGINE

- EPA Interim Tier 4 Compliant and Intercooled
- Turbocharged
- Automatic Fuel Bleed System
- Extended Life Coolant
- Dual Element Air Filter with Pre-Cleaner

ELECTRICAL

- Machine Monitoring System w / Fuel and Coolant Temperature Gauge
- 12 volt System with 80 amp Alternator
- Halogen Work Lights, Front and Rear
- Engine Preheat
- Hour Meter
- Back-up Alarm

UNDERCARRIAGE AND FRAME

- Permanently Sealed Track Rollers with Metal Face Seals
- Welded Track Frame with Multiple Cross Members
- 2-Speed Travel
- 17.7" Rubber Track with Integrated Steel Cables and Forged Steel Inserts
- Grease Type Track Adjuster

HYDRAULIC

- Cushioned Boom Cylinders
- Boom Float with Detent
- Pilot Proportional Hydraulic Controls
- Pressure Relieving Flat Faced Coupler Body
- 14-Pin Connector with Push Button Control
- Hydraulic Self Leveling
- High Flow Auxiliary Hydraulics 40.0 gal / min (optional)
- Second Auxiliary Circuit (optional)
- Ride Control (optional)
- Control Pattern Change Valve (optional)

WORKING EQUIPMENT

- Radial Boom Design
- Mechanical Quick Coupler
- Hydraulic Quick Coupler (optional)
- 80" HD Smooth Lip Dirt Bucket (24 cu ft) (optional)
- 80" HD Dirt Bucket with (9) Teeth (24 cu ft) (optional)
- 8' Six Way Dozer Blade (optional)
- HD 48" Pallet Forks and Frame (optional)
- Counterweight Kit (575 lbs) (optional)

OPERATOR'S STATION

- Tilt-up Operator Station
- Pilot Operated Controls
- Six-way Adjustable Suspension Seat
- Rear Pivoting Seat Bar w / Integrated Arm Rests
- Retractable Seat Belt
- ROPS / FOPS Structure
- Pressurized Cab with Roll Up Door, Air Conditioning, Heat, Defrost and Wiper (optional)
- 3" Seat Belt (optional)
- 3 Point Seat Belt (optional)
- AM / FM / MP3 Radio w / NOAA Weatherband (optional)

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	Takeuchi TL12	Terex ASV PT-100	Bobcat T770 M	Bobcat T870
Performance				
Loader Boom Design	Radial	Radial	Vertical	Vertical
Operating Weight	11,618 lb	11,295 lb	10,327 lb	12,678 lb
Tipping Load	8,102 lb	8,000 lb	9,929 lb	10,072 lb
Operating Capacity*	2,833 lb	2,800 lb	3,475 lb	3,325 lb
Bucket Breakout Force	8,670 lb	NP	NP	NP
Lift Arm Breakout Force	8,550 lb	NP	NP	NP
Traction Force	13,766 lb	NP	NP	NP

* Operating capacity of track loaders to be rated according to SAE J818 at no more than 35% of the tipping load

Engine				
Make / Model	Kubota / V3800CR-T-I	Perkins / 1104D-44T	Kubota / V3800DI-T	Kubota / V3800DI-T
Tier Rating	EPA Tier 4i	EPA Tier 3	EPA Tier 4i	EPA Tier 4i
Horsepower Gross (SAE J1995)	110.0 hp	99.9 hp	92.0 hp	99.2 hp
Rated Engine Speed	2,400 rpm	2,200 rpm	NP	NP
Maximum Torque	277.0 ft-lb	310.0 ft-lb	NP	NP
Undercarriage				
Track Width	17.7"	18.0"	17.7"	17.7"
Track Ground Contact Length	62.9"	71.0"	63.7"	68.9"
Ground Pressure	4.7 psi	4.5 psi	4.2 psi	4.7 psi
Travel Speed Low Range	4.9 mph	6.0 mph	6.6 mph	7.2 mph
Travel Speed High Range	7.4 mph	10.0 mph	10.7 mph (Optional)	11.4 mph (Optional)
Hydraulic System				
Hydraulic Reservoir Capacity	15.9 gal	NP	NP	NP
Auxiliary Flow – Standard	23.0 gpm	20.0 gpm	23.0 gpm	23.8 gpm
Auxiliary Flow – High Flow Option	40.0 gpm	45.0 gpm	36.5 gpm	37.4 gpm
Hydraulic System Pressure	3,046 psi	3,300 psi	3,500 psi	3,500 psi
Dimensions				
Front Clearance Radius with Bucket	7' 11.8"	NP	NP	NP
Rear Clearance Radius	5' 9"	NP	NP	NP
Max. Lift Height to Bucket Pin	10' 6.1"	10' 5"	11' 0"	12' 0"
Dump Height Fully Raised	7' 11.7"	7' 7"	NP	NP
Reach Fully Raised	3' 2.8"	NP	2' 9.6"	3' 0.5"
Overall Width Without Bucket	73.2"	70.0"	78.0"	83.0"
Overall Height	7' 7.3"	7' 1.5"	6' 9.3"	6' 11.4"
Minimum Ground Clearance	13.5"	14.7"	NP	NP

COMPETITIVE DETAILS

TL12 Track Loader

Case TV380	Caterpillar 299D	Caterpillar 299D XHP	John Deere 333D	Kubota SVL90
Vertical	Vertical	Vertical	Vertical	Vertical
10,200 lb	10,898 lb	11,647 lb	11,000 lb	10,915 lb
7,600 lb	8,500 lb	9,100 lb	9,425 lb	8,600 lb
2,660 lb	2,975 lb	3,185 lb	3,300 lb	3,010 lb
8,585 lb	7,831 lb	7,831 lb	13,875 lb	7,961 lb
4,940 lb	6,100 lb	6,100 lb	6,600 lb	6,742 lb
9,270 lb	NP	NP	11,500 lb	NP
FPT / 432T-M3	Kubota / V3800CR-T	Kubota / V3800CR-T-I	Deere / E5030HT	Kubota / V3800CR-T
EPA Tier 3	EPA Tier 4i	EPA Tier 4i	EPA Tier 3	EPA Tier 4i
90.0 hp	98.0 hp	110.0 hp	95.0 hp	90.0 hp
2,675 rpm	NP	NP	2,400 rpm	2,400 rpm
251.0 ft-lb	NP	NP	252.0 ft-lb	NP
17.7"	17.7"	17.7"	17.7"	17.7"
63.1"	69.6"	69.6"	NP	NP
5.0 psi	4.4 psi	5.3 psi	4.5 psi	4.2 psi
5.8 mph	5.0 mph	5.0 mph	5.3 mph	5.0 mph
8.3 mph (Optional)	8.5 mph	8.5 mph	7.8 mph	7.3 mph
6.0 gal	10.3 gal	10.3 gal	NP	10.1 gal
22.5 gpm	23.0 gpm	23.0 gpm	25.0 gpm	25.1 gpm
34.6 gpm	32.0 gpm	40.0 gpm	34.0 gpm	36.5 gpm
3,000 psi	3,335 psi / 4,061 psi (Standard) (Highflow)	3,335 psi / 4,061 psi (Standard) (Highflow)	3,450 psi	3,555 psi
7' 3"	7' 8.4"	7' 8.4"	7' 1.4"	NP
5' 10.4"	6.0'	6.0'	NP	NP
10' 11.6"	10' 6.6"	10' 6.6"	10' 6"	10' 8.6"
8' 8"	7' 11"	7' 11"	8' 6"	NP
2' 7"	2' 7"	2' 7"	2' 8"	3' 4"
76.0"	76.0"	78.0"	79.0''	77.2"
6' 8.4"	6' 11"	6' 11"	7' 1"	6' 7.4"
9.5"	9.1"	9.1"	10.4"	11.8"

TL230
SERIES 2

TL10

TL12

TW50

TW65

TW80

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