

E Extra/R Extra

Mining

Coal

Quarry

Construction

Foundry

SOLUCIONES  
A PRUEBA DE  
**ROCA**

 **LIUGONG**  
MÉXICO, CENTROAMÉRICA  
Y EL CARIBE

 **DRESSTA**

 **DRESSTA**

**TD-40**  
**CRAWLER DOZERS**

Road & Highway

Arctic



# Engineered for productivity & built to last

You can rely on Dressta's TD-40 when your business needs equipment that is durable, productive and backed up by a global network. The TD-40 is a proven, productive and rugged dozer, engineered to deliver dependable results.

## HEAVYWEIGHT PERFORMERS

Engineered for productivity, safe operation, reliability and long life, Dressta TD-40 is the dozer of choice for industry professionals around the world.

### TD-40 delivers total life time value:

1. The TD-40E Extra model features a powerful 515 net HP (384 kW) Cummins QSK19 engine, compliant to US EPA Tier 3/EU Stage IIIA; while the TD-40R Extra model is powered by 530 net HP (397 kW) Perkins 2806F engine compliant to US EPA Tier 4 Final/EU Stage IV. Both engines delivers steady torque and power for efficient dozing and ripping.
2. Unique 2-speed steering drive for continuous transfer of 100% engine power to both tracks, resulting in better load retention through turns.
3. Rugged undercarriage design allowing maximum durability and smooth, stable operation.
4. Modular, highly efficient hydrostatic fan drive cooling system suitable for all climate conditions. The TD-40 is able to operate in ambient temperatures between -40°C and +60°C.
5. Lifetime lubricated rollers, heavy duty chains and idlers ensure extended track life for lower operating cost.
6. Reliable power shift transmission and steering drive clutches, with 6 forward / 6 reverse travel speeds and high drawbar pull.
7. Travel speed preselection and automatic down-shifting mode for greater operator efficiency.
8. Options for GPS fleet management systems.
9. Options for Trimble Ready & Trimble 3D grade control systems.
10. Ergonomically designed cab with deluxe seat, sound suppression and responsive controls, and the safety of a six-post design FOPS cab and external 2-post ROPS.
11. Exceptional all-round visibility, with clear line of sight to blade corners.
12. Conveniently placed steps, handholds and foot grips for easy and safe access.
13. Modular component layout and easily accessible diagnostic check ports, filters and sight gauges for quick and simple serviceability.
14. Industry-leading blade capacities to get the job done faster. Available with Semi-U blade (Standard), Full-U blade and Coal blade.
15. Modular component layout to make servicing and maintenance quicker, easier and cheaper.







## TD-40E

### OPERATING WEIGHT

67,700 kg  
(149,251 lb)

### HORSE POWER (NET)

515 HP  
(384 kW)

### BLADE CAPACITY

18.6-39.8 m<sup>3</sup>  
(24.3 - 52 yd<sup>3</sup>)



## TD-40R

### OPERATING WEIGHT

67,850 kg  
(149,584 lb)

### HORSE POWER (NET)

532 HP  
(397 kW)

### BLADE CAPACITY

18.6-39.8 m<sup>3</sup>  
(24.3 - 52 yd<sup>3</sup>)

From its robust design, ready to tackle even the toughest construction or mining task, to its ease of operation and the unrivalled support of the global Dressta network, the TD-40 is a heavyweight performer.



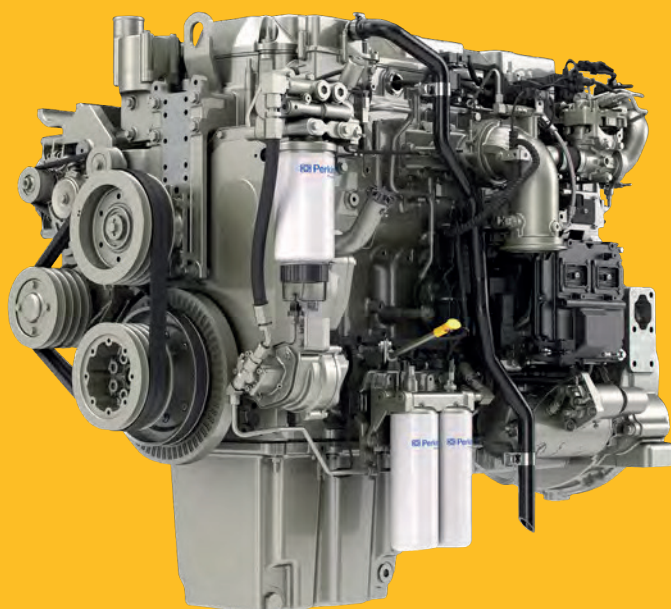
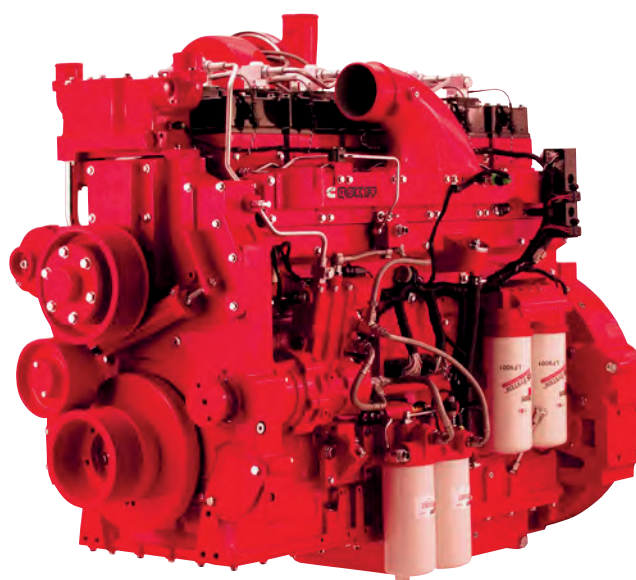
# 67 Tons of Pure Performance

Productivity equals profitability.

The TD-40 balance-to-weight ratio provides unrivalled tractive effort to power through any task.

Powered by a turbocharged 515 HP (384 kW) Cummins QSK19 engine, the TD-40E Extra is compliant to US EPA Tier 3/EU Stage IIIA emissions regulations.

The combination of Cummins expertise with the latest heavy-duty diesel design delivers higher peak torque and exceptional fuel efficiency, so you can take on even the biggest jobs with confidence.



TD-40R Extra model features a powerful 530 HP (397 kW) Perkins 2806F engine, US EPA Tier 4 Final/EU Stage IV compliant.

A dependable Perkins engine offers a high-pressure common-rail fuel system ensuring optimum, efficient performance while after-treatment technology including oxidation catalyst, diesel particulate filter, selective catalytic reducer, and AdBlue (DEF) injection and control system keeps the engine running clean.





### **DRAWBAR PULL**

Unrivalled 1225 kN drawbar pull means you can rip and move more material per hour.

### **COOLING SYSTEM**

Modular design of the radiator, aftercooler, drive line and hydraulic oil coolers make the system easier to access and maintain, including regular cleanout; while the open fin design allows debris to pass through without clogging.

A hydraulic fan automatically reduces speed when demand is lower, resulting in improved fuel efficiency. An optional reversible fan provides maximum radiator cleaning performance while you work.

### **AUTO DOWNSHIFT FOR UNINTERRUPTED PRODUCTIVITY**

Auto downshift allows smooth operation and improved cycle times. The controller automatically downshifts when peak load is achieved, optimizing gear speed and providing maximum tractive effort with improved fuel efficiency.

### **2-SPEED STEERING SYSTEM**

The exclusive 2-speed steering drive allows full power to be delivered to both tracks at all times. This ensures vastly improved traction to push full loads effortlessly through turns, quickly and smoothly.

### **TRAVEL SPEEDS**

Highest speed for the appropriate application, 6-forward / 6-reverse speeds mean easy, precise control for faster travel and higher work productivity. The operator can easily select the highest travel speed for the job or adjust for particular applications or conditions.

### **TORQUE CONVERTER**

The reliable and proven Dressta Torque Converter makes the operator's job easier by automatically adjusting the speed of the dozer to load variations that fluctuate during the work cycle.

### **PRESET TRAVEL SPEED SELECTION**

Advanced electrohydraulic control drive system with pre-selection mode and auto-downshifting make it easy to work by improving cycle times by eliminating manual gear changes whilst reducing operator fatigue.

The operator can select from two preset modes:

- Forward direction first gear and reverse in second gear, ideal for fast cycle times in rough dozing; and
- Forward direction in second gear and reverse in second gear, for lighter operations.



# All round heavy duty design

Dressta's heavy duty undercarriage is engineered for durability and performance in tough applications from rocky terrain to stock piles, slopes and land clearing.

The TD-40 incorporates a one-piece mainframe that utilizes robust steel castings and is engineered to absorb heavy peak loads and twisting forces. Two independent pivot shafts are shring connection to the main frame casting for ease of maintenance and are mounted in front of the sprocket to protect the final drive assemblies from blade induced shock loads.





A one-piece mainframe, high strength pivot shaft and exclusive undercarriage design means exceptional strength so you can get on with the job with confidence.

### MODULAR CONSTRUCTION

Maximum uptime is critical to business success. Dressta's modular design arranges components in a way that makes removal and replacement during servicing quick and easy, to get you back to work fast for minimum downtime and maximum profitability.

- All Dressta products have track chains with master links which makes servicing the tracks fast and without the need for special tools or hydraulic presses.
- Dressta dozers incorporate equalizer bars which do not require pins at the ends. Thanks to this feature, the equalizer bars are maintenance free for the life of the product.



### UNDERCARRIAGE

The TD-40 has a low drive undercarriage which lowers the center of gravity for exceptional stability and safe operation even on high sided slopes. Oscillating track frames reduce shock loads, enhance durability and smooth travel while improving gradeability. It also ensures all round visibility complemented with a comfortable ride.

Undercarriage components are designed for extended wear in tough terrain and are arranged in a way that makes removal and replacement during servicing quick and easy, maximizing machine uptime and profitability.

### UNDERCARRIAGE MOUNTING SYSTEM

The undercarriage mounting system keeps track frames in alignment allowing them to oscillate vertically while preventing toe in and toe out. The flexible equalizer bar is pinned at the center, while the ends of the bar rest on pads located at the top center of each track frame.

Such design allows the track frames to oscillate in a true, vertical manner; moreover it eliminates the need of lubricating the equalizer bar end pins.

### TRACK SHOES

A range of track shoe widths helps perfectly match the TD-40 to all types of ground conditions. 610 mm (24 in.) single grouser track shoes are standard. Options include 660 mm (26 in.) clipped corner and 800 mm (31.5 in.).

### MANAGING WEAR

Durable components that continue to perform through everyday wear and tear improve the lifetime value of your TD-40. Dressta's Lubricated Track System (LTS) is designed for:

- Reduce sprocket and external bushing wear
- Eliminate track link counter bore wear and reduce chain warp or twisting
- Increase track roller and idler life
- Quieter track chain operation



# Designed to make hard work easy on the operator

Operator safety and comfort are essential elements of worksite productivity. A comfortable operator is less easily fatigued, more efficient and more productive.

The cab has a functional design to keep the operator engaged on the job. Operators will enjoy exceptional in-cab comfort from the performance of the air conditioning system to the location of the controls for optimal operator comfort.

The FOPS cab and external 2-post ROPS certified cab provides more space and improved visibility. The sound-suppressed cab is equipped with:

- Large tinted side and rear sliding windows for cross ventilation and an enhanced view of both the blade and ripper equipment.
- Air recirculation system.
- Air conditioner / heater / pressurizer.
- Noise reduction trim.
- Deluxe air suspension seat including 6-way adjustment and arm rests.
- Ergonomically designed joystick controls for direction, blade and ripper operation.
- High resolution 7" LCD display screen provides real-time system values for temperatures, pressures and forward/reverse direction shift and ground-speed ranges.
  - Multiple language options.
  - Large anti-glare full color monitor.
  - 1 GB memory for display of service and maintenance data.
  - Dual (metric/imperial) units.

When you're on the job site from dawn to dark, you want a cab that is comfortable all day long.





# High resolution 7 inch LCD display screen



## RESPONSIVE & PREDICTABLE CONTROLS

The left-hand side joystick controls speed ranges, machine direction changes and steering modes. Buttons on the joystick control the transmission gear selection, while rocker switches select high and low steering ranges.

Ergonomically designed right-hand joystick enables superb blade control. Double tilt and pitch control buttons are used for precise and easy changes of the blade position.

A separate lever controls the rising and lowering of the ripper as well as pitching the ripper shank.

## NOISE AND VIBRATION MANAGEMENT

Isolated cab mounts reduce vibration for enhanced comfort and noise reduction, while the low drive undercarriage system ensures minimal vibration and noise from the final drives and track system.

## AIR CONDITIONING

The heater and the A/C unit and fan are now mounted under the operator's seat for consistent cab climate throughout the day. The fresh air filters are placed below the cab rear windows, and the condenser unit is mounted at the rear of the cab.

## CAB DESIGN AND LAYOUT

The comfortable seat is adjustable to operator's weight and sitting position and is equipped with full arm rests and seat belt. It swivels to the right for better ripper viewing and reduces operator fatigue in long ripping runs.

All instruments and electrical function switches are conveniently located and feature non-reflective indirect lighting for good visibility and minimal glare from cab windows.

## MAXIMUM VISIBILITY

The cab provides clear view to the blade and ripper working areas and the entire job site, with a direct line of sight to the cutting edge, making it easy to follow the flow of material under the blade.



# The right tools for the job

A great dozer delivers maximum efficiency when it is equipped with the right blades and rippers. Dressta's robust blades and rippers are designed to power through even the toughest of materials and are suited to a wide range of applications.

- **Semi-U** for heavy cutting and pushing rocks and rocky clay.
- **Full-U** for easy pushing of lighter materials.
- **Coal blade** for moving more material.
- **Single shank ripper** for heavy duty ripping in rocks, hard coal or rocky clay. (STD and deep penetration)
- **Multi-shank ripper** for light duty operation in low density material.



Dressta actively listens to customers, innovating and implementing machine features that genuinely improve the performance and functionality for the end user. With Dressta's Special Feature Request (SFR), your machine can be engineered for your business.



At Dressta, we can fit our machines with reinforced blades or severe service track shoes for extreme mining applications.



## BLADES

Our blades are designed to provide a balance between fine-light dozing and aggressive heavy material movement. This enables the TD-40 to perform better over a broader variety of applications.

Blades are designed for increased capacity and incorporate full-width cutting edges for prolonged durability. Blades can be equipped with a hydraulic tilt or tilt/pitch option and a manual blade pitch adjustment which makes the dozer even more versatile.

Double tilt and pitch control buttons are used for precise and easy change of the blade position.

The standard Semi-U Blade with 18,6 m<sup>3</sup> (24.3 yd<sup>3</sup>) capacity combines the penetration ability of a straight blade with the increased capacity. It is ideal for heavy duty applications like mining and road construction.

The 22.8 m<sup>3</sup> (29.9 yd<sup>3</sup>) Full-U Blade provides high volume movement of light non-cohesive materials.

The 39,8 m<sup>3</sup> (52.0 yd<sup>3</sup>) Coal Handling Blade ensures increased productivity with length, height, and wing angles developed specifically for high production coal dozing and bulky low density materials. Extended end plates help contain loads and eliminate side spillage.

## RIPPER

For tough ripping applications, the single shank ripper with a hydraulic pitch can be applied, as well as standard or deep ripper shanks. A three-shank, parallelogram ripper has been designed to utilize the full drawbar capacity of Dressta dozers.

The adjustable parallelogram multi-shank ripper offers excellent 1000 mm (39 in) penetration.

The single shank ripper option offers a standard shank with 1 290 mm (51 in) penetration and a deep shank option with an exceptional 1 670 mm (66 in) penetration, allowing the full use of the 1225 kN (277,717 lb) drawbar pull force to be transferred to the ripper.

As an option, for ease of operation, a hydraulically controlled ripper shank pin puller can adjust ripper penetration depth.

Both the single and multi-shank rippers are equipped with four large cylinders (254 mm / 10 in. diameter), two for pitching and two for rising and lowering. The angle of the attack of the ripper shank, can be changed with ease to match the ripping conditions.





# Where there's mining, there's DRESSTA

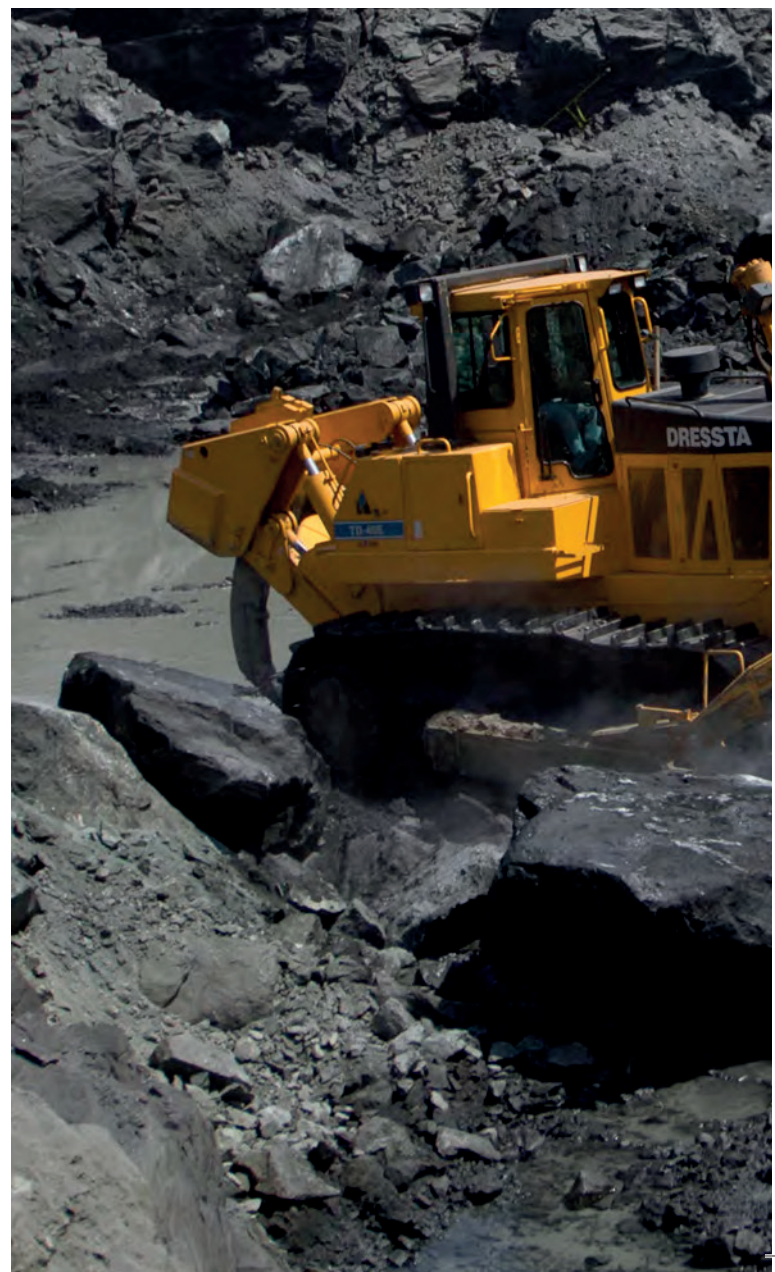
Mine operations are complex, so you need an equipment supplier who really understands the industry. Dressta knows that safety and sustainability are key in mining. Productivity is critical, too, and that relies on powerful equipment that works hard, shift after shift, with minimum downtime and maximum efficiency.

## THE FEATURES YOU NEED FOR ON-SITE SUCCESS

- Unique two-speed steering drive for continuous transfer of 100% engine power to both tracks allowing the blade to handle full loads through turns.
- Unrivalled drawbar pull combined with high capacity blades so you can move more material per hour at the lowest unit cost.
- Low effort controls for precise and predictable positioning of loads.
- Unmatched ripping performance with exceptional penetration for fast ripping in the hardest of materials.
- Heavy-duty undercarriage and track options.
- Modular design for maximum productivity and long service life.
- Access platform to service points for easy daily maintenance.
- Trimble ready technology.

TD-40 is optimally sized for performance in mining operations and equipped with high horsepower to weight ratios for effectively pushing heavy loads.

Dressta's large and mid-sized dozers have proven themselves in some of the world's toughest mine sites.





# Built tough for tough conditions

Mining is the art of extracting mineral deposits at a profit. And in this demanding industry, you need robust equipment.

Mine sites are challenging environments, and your equipment needs to:

- Handle large volumes of material.
- Work without downtime through a continuous production cycle.
- Be suitably equipped for use in tough, dusty operating conditions.



## SERVICING MADE EASY

TD-40 has been designed for easy access and reliability to maximize uptime and make servicing as simple and cost effective as possible even in the toughest of the conditions.

- Easy to access service points allow for easy maintenance.
- Vertical 'no spill' easy-to-change engine hydraulic oil filters.
- On-board alerts to inform the operator of upcoming scheduled services.
- Visual and audible alarms warn the operator of non-standard machine system status.
- Conveniently located sight gauge and diagnostic ports.

## CLEANER FOR BETTER PERFORMANCE

Coal dust is hazardous for the machine and the operator.

Dressta's coal models have cleaners that spin the air before it enters the engine system and use centrifugal force to reduce coal dust. This helps to improve fuel economy and extends the life of the filters and engine.

CAB is equipped with special HEPA filter.



# Work your way to achieve your goal

Different jobs have different requirements, but Dressta makes it easy for you to get the best result in any operation by designing versatile equipment, and working directly with customers to meet their special requirements.



It takes special engineering to create machines that can deal with temperatures as high as 600°C, so Dressta provides specially designed application packages to allow machines to meet the unique challenges.



Talk to DRESSTA about TD-40 Special Feature Requests. If different applications require unique attachments, components or design specifications, Dressta will work with you to maximise the operational efficiency of your machines.

Mines operate in some of the most unforgiving locations on the planet, and so do Dressta dozers. From an icy -40°C below zero to a searing 60°C, Dressta dozers are ready to go.

Dozers operating in Russia, Kazakhstan, Uzbekistan, Kyrgyzstan and other extremely cold regions can be equipped with an Arctic Package, developed by Dressta over decades of experience on harsh Siberian job sites.

The same models are equally adept at taking on excessively hot conditions, and we offer a heavy-duty filtering system as a Special Feature Request (SFR) for heavy, dusty conditions.

High altitudes, which can be as challenging as extreme temperatures, are no obstacle either.

Dressta machines are engineered with the durability and power to handle the toughest of applications.

#### **THE TD-40 IS IDEALLY SUITED TO A FURTHER RANGE OF APPLICATIONS INCLUDING:**

##### **MINING & QUARRY**

Dressta mining dozers are engineered to perform in a wide range of tasks, including stockpile management, ripping materials, removing overburden and building and maintaining haul roads.

##### **CONSTRUCTION / ROAD & HIGHWAY**

Powerful TD-40 dozers have the muscle to take on any construction challenge, from ground breaking through to final grade.

##### **COAL HANDLING**

Dressta's large dozers are routinely chosen for use in challenging coal handling applications that run 24/7, such as power generation and steel production.

##### **FOUNDRY**

Dressta's large dozers are built to survive and thrive in a range of industrial applications. One of the most testing scenarios is the handling of hot materials such as iron slag. The hot slag application pack includes reinforced blades, rippers and/or ground engaging rippers.

##### **ARCTIC**

Dressta dozers have been refined for supreme performance in arctic conditions. Machines are equipped to perform in extreme temperatures as low as -40°C for extended periods of time.



##### **GPS FLEET MANAGEMENT**

All of Dressta's models can be fitted with a GPS system so you can easily see where your equipment is, what it is doing and how productive it is, utilising user-friendly management tools combined with GPS-based positioning.

##### **GRADE CONTROL SYSTEM**

Trimble systems are available to improve productivity during levelling operations. Grade control systems can help you finish jobs with less rework, less staking, less checking, lower costs and improved site accuracy.

# Keeping you on the job 24/7

Dressta knows that its equipment is put to test each and every day, and its machines are engineered to stand up to the challenges and demands of the toughest jobs.

## **WARRANTY**

When you purchase a Dressta dozer, your investment is backed by one of the most comprehensive warranties in the industry. In addition to the standard 12 month warranty, Dressta offers extended warranty protection programs for additional peace of mind.

## **EASY PARTS SUPPLY**

Genuine Dressta parts are engineered to fit right the first time and to provide the highest levels of performance and reliability while meeting strict quality controls. The global parts network, with seven regional distribution centers and advanced logistics systems, means you can be assured of rapid parts supply of whatever you need, wherever you are.

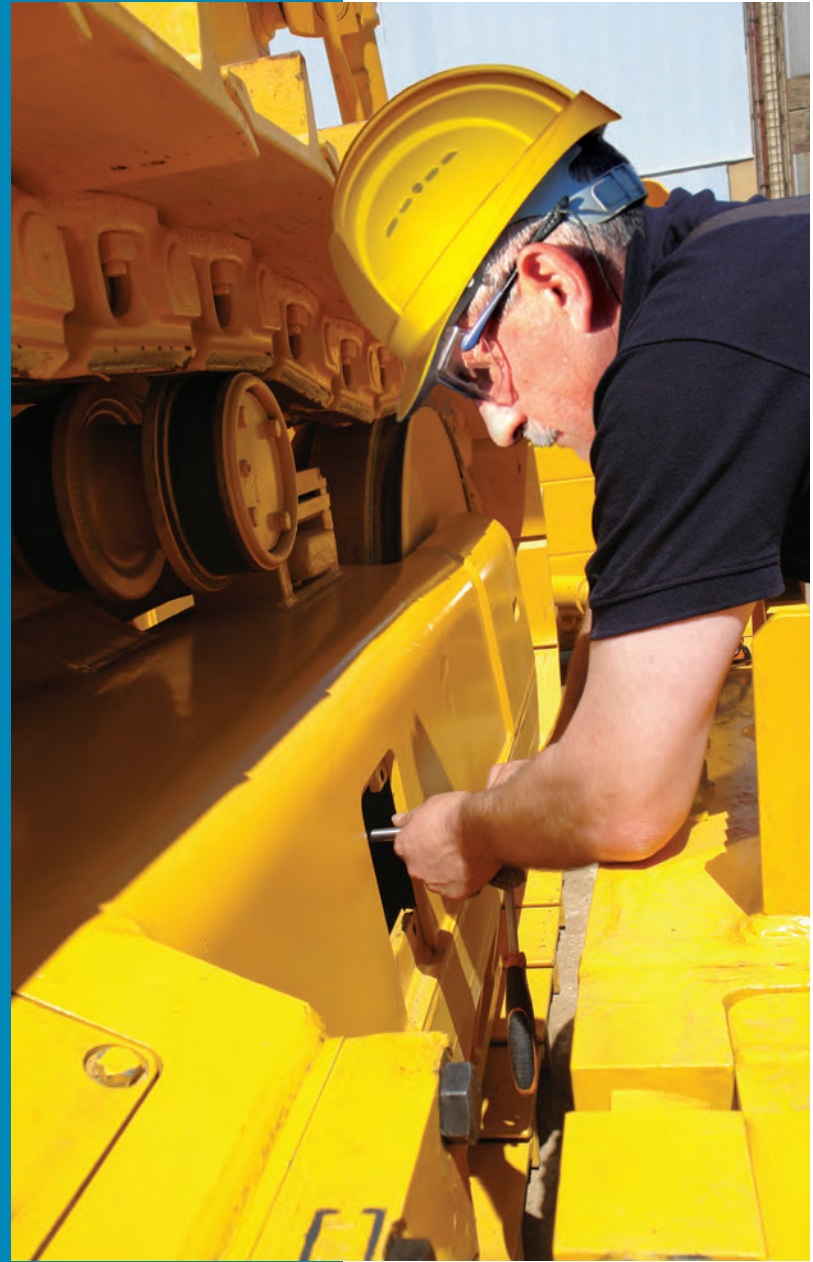
## **GET THE MOST OUT OF YOUR EQUIPMENT**

Dressta's stringent quality assurance ensures all products meet the exact needs of customers. Technical support teams offer fast access to factory expertise and information systems while ongoing aftersales support is available via dealerships with factory trained engineers who are available as and when you require.





Our products are supplied worldwide through a well-established network of independent distributors who are as passionate about the industry as you are.



## ENGINE

	TD-40E Extra	TD-40R Extra
Make and model	Cummins QSK19	Perkins 2806F
Emissions standard	EPA Tier 3/EU Stage IIIA	EPA Tier 4f / EU Stage IV
Displacement	19 l (1150 in <sup>3</sup> )	18.1 L (912 in <sup>3</sup> )
Bore and stroke	159 x 159 mm (6.25 in x 6.25 in)	145 x 183 mm (5.71 in x 7.20 in)
Gross horsepower, SAE J1995	560 HP (418 kW)	575 HP (429 kW)
Net horsepower, SAE J1349/ ISO 9249	515 HP (384 kW)	532 HP (397 kW)
Rated rpm	2000	2000
Max. torque	2379 Nm (1,755 lb-ft)	2694 Nm (1,987 lb-ft) @ 1300 rpm
Air cleaner	2-stage, dry type , with dash mounted electronic service indicator	Dry type, with dash-mounted electronic service indicator
Cold-starting aid	ether start	grid heater
Slope operation, max. angle	45°	45°

## COOLING

	TD-40E Extra	TD-40R Extra
Type	Suction-type variable-speed fan, hydraulically driven with perforated engine side sheets and heavy-duty louvered front grill	Suction-type variable-speed fan, hydraulically driven with perforated engine side sheets and heavy-duty louvered front grill
Engine coolant rating	-37 °C (-34 °F)	-37 °C (-34 °F)

## OPERATOR STATION

	TD-40E Extra	TD-40R Extra
ROPS	ROPS (ISO 3471 - 2008)	ROPS (ISO 3471 - 2008)
FOPS	FOPS (ISO 3449 - 2005)	FOPS (ISO 3449 - 2005)

## UNDERCARRIAGE

	TD-40E Extra	TD-40R Extra
Suspension	Oscillation-type with equalizer bar and forward mounted pivot shafts	Oscillation-type with equalizer bar and forward mounted pivot shafts
Tracks	Large deep-heat-treated, sealed, and lubricated track links and through-hardened, sealed, and lubricated rollers for maximum wear resistance	Large deep-heat-treated, sealed, and lubricated track links and through-hardened, sealed, and lubricated rollers for maximum wear resistance
Track gauge	2 500 mm (8 ft 2 in)	2 500 mm (8 ft 2 in)
Track shoe width	610 mm (24 in)	610 mm (24 in)
Chain	Sealed and lubricated	Sealed and lubricated
Shoes, each side	39	39
Track rollers, each side	7	7
Track length on ground	3610 mm (11 ft 10 in)	3610 mm (11 ft 10 in)
Ground contact area	44 000 cm <sup>2</sup> (6,816 in <sup>2</sup> )	44 000 cm <sup>2</sup> (6,816 in <sup>2</sup> )
Ground pressure	151 kPa (21.9 psi)	151 kPa (21.9 psi)
Track pitch	280 mm (11 in)	280 mm (11 in)
Sprocket sements, each side	1	1



## POWERTRAIN

	TD-40E Extra		TD-40R Extra	
Transmission	Single stage 450 mm (17.5 in) torque converter with a 2.3:1 stall ratio drives to transmission through a double universal joint. Modular, countershaft type power shift transmission, electro-hydraulic control. Preset travel speed and auto-downshift.		Single stage 450 mm (17.5 in) torque converter with a 2.3:1 stall ratio drives to transmission through a double universal joint. Modular, countershaft type power shift transmission, electro-hydraulic control. Preset travel speed and auto-downshift.	
Steering	Exclusive 2-speed geared steering module provides gradual turns while maintaining full power to both tracks, plus conventional clutch-brake performance for tight or pivot turns. Coupled to 3-speed transmission, the 2-speed steering provides 6 forward and 6 reverse speeds. The left hand joystick controls transmission and steering drive for up and down gearshifting, steering, high/low selection and LH/RH gradual turn.		Exclusive 2-speed geared steering module provides gradual turns while maintaining full power to both tracks, plus conventional clutch-brake performance for tight or pivot turns. Coupled to 3-speed transmission, the 2-speed steering provides 6 forward and 6 reverse speeds. The left hand joystick controls transmission and steering drive for up and down gearshifting, steering, high/low selection and LH/RH gradual turn.	
Final drives	Double-reduction planetary type final drives mounted independently of track frames and dozer push arms for isolation from shock loads		Double-reduction planetary type final drives mounted independently of track frames and dozer push arms for isolation from shock loads.	
Total ratio	28.1 to 1		28.1 to 1	
Maximum drawbar pull	1157 kN (261041 lb)		1225 kN (275391 lb)	
<b>Travel speeds</b>	Forward	Reverse	Forward	Reverse
1st Low	3.2 km/h (2.0 mph)	4.1 km/h (2.5 mph)	3.2 km/h (2.0 mph)	4.1 km/h (2.5 mph)
High	4.1 km/h (2.5 mph)	5.2 km/h (3.2 mph)	4.1 km/h (2.5 mph)	5.2 km/h (3.2 mph)
2nd Low	5.2 km/h (3.2 mph)	6.5 km/h (4.0 mph)	5.2 km/h (3.2 mph)	6.5 km/h (4.0 mph)
High	6.7 km/h (4.2 mph)	8.4 km/h (5.2 mph)	6.7 km/h (4.2 mph)	8.4 km/h (5.2 mph)
3rd Low	9.4 km/h (5.8 mph)	11.7 km/h (7.3 mph)	9.4 km/h (5.8 mph)	11.7 km/h (7.3 mph)
High	12.0 km/h (7.5 mph)	14.9 km/h (9.3 mph)	12.0 km/h (7.5 mph)	14.9 km/h (9.3 mph)
<b>Brakes</b>				
Service	Spring applied hydraulically released multi-disc wet brakes. Foot pedal piloted control.		Spring applied hydraulically released multi-disc wet brakes. Foot pedal piloted control.	
Parking	The steering brakes also act as service and parking brakes. Service brakes are locked automatically when the transmission safety lever is actuated or when the engine is cut off.		The steering brakes also act as service and parking brakes. Service brakes are locked automatically when the transmission safety lever is actuated or when the engine is cut off.	

## HYDRAULICS

	TD-40E Extra	TD-40R Extra
Type	Open-center hydraulic system with fixed-displacement multiple-pump gear type	Open-center hydraulic system with fixed-displacement multiple-pump gear type
Pump displacement	313.5 l/min (82.8 gpm)	313.5 l/min (82.8 gpm)
System relief pressure	Blade lift & ripper 17.2 MPa (2,500 psi); blade tilt 18.4 MPa (2,670 psi)	Blade lift & ripper 17.2 MPa (2,500 psi); blade tilt 18.4 MPa (2,670 psi)
Control	Single joystick lever	Single joystick lever

## ELECTRICAL

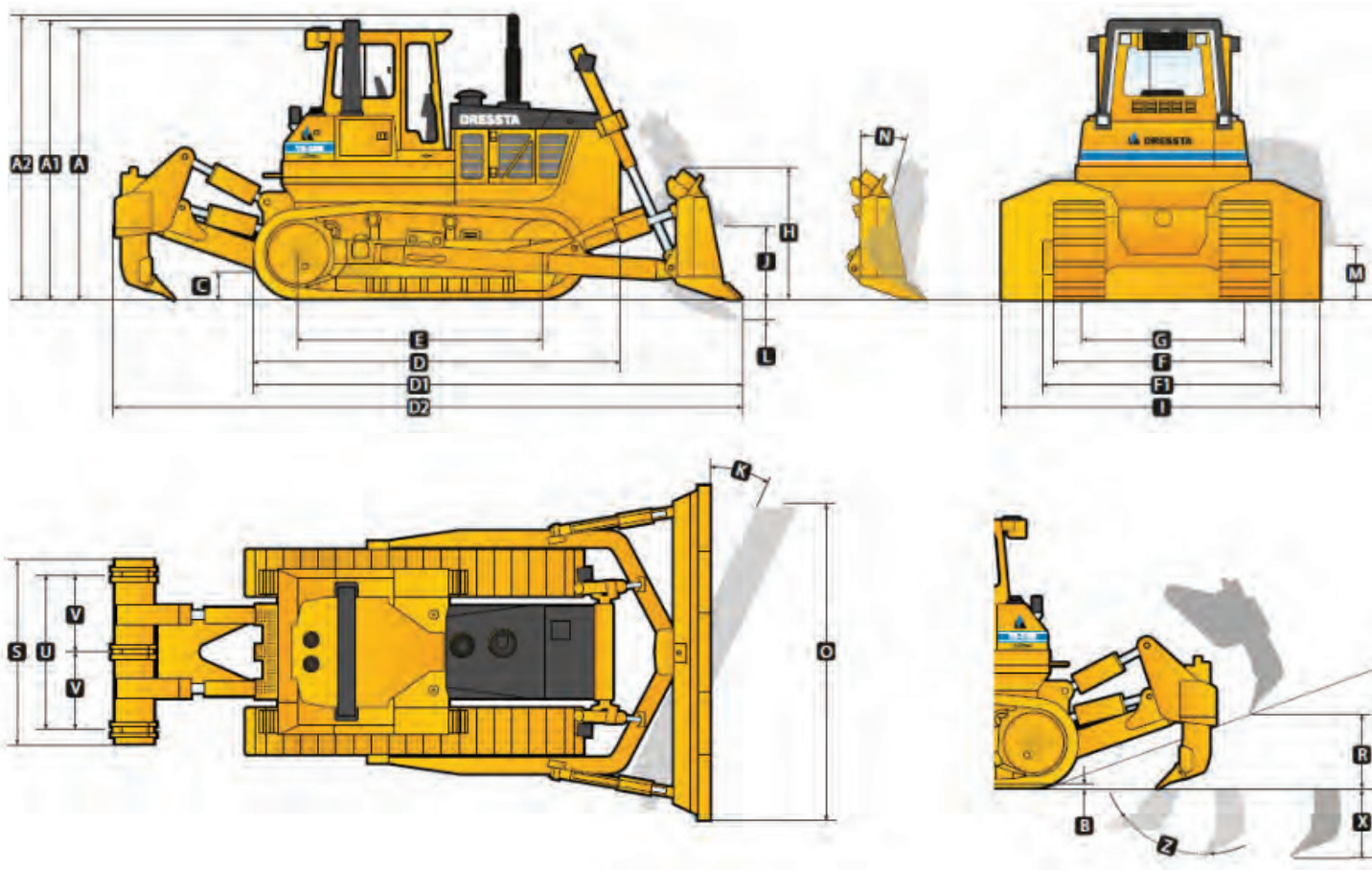
	TD-40E Extra	TD-40R Extra
Voltage	24 V	24 V
Number of batteries	4	4
Battery capacity	960 CCA	960 CCA
Alternator rating	105 A	150 A
Lights	8 total; cab mounted (2F& 2R), 2 front lift cylinders and 2 mounted on the rear fuel tank	8 total; cab mounted (2F& 2R), 2 front lift cylinders and 2 mounted on the rear fuel tank

## SERVICEABILITY

	TD-40E Extra	TD-40R Extra
<b>Refill capacities</b>		
Fuel tank	1 362 l (360 US gal)	1 270 L (340 US gal)
Cooling system	89.5 l (23.6 US gal)	89.5 L (23.6 US gal)
Engine oil	59.3 l (15.7 US gal)	65 L (17.17 US gal)
Transmission system	270 l (71 US gal)	270 L (71 US gal)
Final drive, each side	85 l (22.5 US gal)	85 L (22.5 US gal)
Hydraulic reservoir	184 l (48.6 US gal)	184 L (48.6 US gal)
Adblue	NA	44 L (12 US gal)

## OPERATING WEIGHTS

	TD-40E Extra	TD-40R Extra
Base weight with Semi-U blade w/tilt, single-shank ripper, standard equipment, cab ROPS/FOPS, full fuel tank, and 79 kg [175 lb.] operator)	67 700 kg (149,251 lb)	67 850 kg (149,584 lb)
<b>Optional components</b>		
Ripper w/3 shanks	+ 372 kg (820 lb)	+ 372 kg (820 lb)
<b>Track shoes</b>		
660 mm (24 in.)	+ 335 kg (740 lb)	+ 335 kg (740 lb)
762 mm (30 in.)	+870 kg (1,918 lb)	+870 kg (1,918 lb)
800 mm (31.5 in.)	+ 920 kg (2,030 lb)	+ 920 kg (2,030 lb)





## MACHINE DIMENSIONS

	TD-40E Extra & TD-40R Extra
Type	
<b>A</b> Overall height - FOPS cab	4 060 mm (13 ft 4 in)
<b>A1</b> Overall height - ROPS	4 220 mm (13 ft 10 in)
<b>A2</b> Overall height - end of exhaust pipe	4 410 mm (14 ft 6 in)
<b>B</b> Grouser height	93 mm (3.66 in)
<b>C</b> Ground clearance	600 mm (23.7 in)
<b>D</b> Overall length, base machine	5 750 mm (18 ft 10 in)
<b>D1</b> Length with blade and drawbar	7.93 m (26 ft)
<b>D2</b> Length with blade and 1-shank / 3-shank ripper	10.35 m / 9.76 m (34 ft / 32 ft)
<b>E</b> Track length on ground	3 610 mm (11 ft 10 in)
<b>F</b> Width over track	3 110 mm (10 ft 2 in)
<b>F1</b> Width over trunnions	3 730 mm (12 ft 3 in)
<b>G</b> Track gauge	2 500 mm (8 ft 2in)

## BLADE SPECS

	TD-40E Extra & TD-40R Extra		
Type	Semi-U	Full-U	Coal
SAE capacity	18.6 m³ (24.3 yd³)	22.8 m³ (29.8 yd³)	39.8 m³ (52 yd³)
<b>H</b> Blade height	2 230 mm (7 ft 4 in)	2 260 mm (7 ft 5 in)	2 500 mm (8 ft 2 in)
<b>I</b> Blade width	4 810 mm (15 ft 9 in)	5 180 mm (17 ft)	6 850 mm (22 ft 6 in)
<b>J</b> Blade lift height	1 530 mm (5 ft 0.2 in)	1 530 mm (5 ft 0.2")	1 460 mm (4 ft 9.5 in)
<b>K</b> Blade angle	-	-	-
<b>L</b> Blade digging depth	830 mm (32.7 in)	830 mm (32.7 in)	875 mm (34.4 in)
<b>M</b> Maximum tilt	1 150 mm (45.3 in)	1 250 mm (49.2 in)	1 650 mm (65 in)
<b>N</b> Maximum blade pitch adjustment	10°	10°	10°
<b>O</b> Overall width with blade angled	-	-	-

## RIPPER

### Parallelogram ripper with hydraulic pitch adjustment

	TD-40E Extra & TD-40R Extra		
	Standard	Deep	Multi-shank (3-shank)
<b>R</b> Maximum clearance under tip (raised)	1 000 mm (39 in)	720 mm (28 in)	950 mm (37 in)
<b>S</b> Overall beam width	1 670 mm (65.7 in)	1 670 mm (65.7 in)	2 880 mm (113.5 in)
<b>T</b> Slope angle (fully raised)	30.8°	30.8°	30.8°
<b>U</b> Ripping width	-	-	2 380 mm (94 in)
<b>V</b> Spacing center to center	-	-	1 190 mm (47 in)
<b>X</b> Maximum penetration	1 290 mm (51 in)	1 670 mm (66 in)	1 000 mm (39 in)
<b>Z</b> Maximum pitch adjustment	25.1°	25.1°	25.1°
Penetration force	200 kN (44,960 lb)	200 kN (44,960 lb)	205 kN (46,084 lb)
Pryout force	612 kN (137,578 lb)	612 kN (137,578 lb)	622.5 kN (139,938 lb)
Shank positions (vertical)	4	4	2
Weight of ripper w/ 1 shank	8 356 kg (18,422 lb)	8 461 kg (18,653 lb)	8 728 kg (19,242 lb)
Weight of shank	668 kg (1,473 lb)	773 kg (1,704 lb)	570 kg (1,260 lb)

## STANDARD EQUIPMENT

### ENGINE

#### TD-40E Extra

Engine, Cummins QSK19, Tier 3, emission certified turbocharged, direct start, direct injection, 515 HP (384 kW)

#### TD-40R Extra

Engine, Perkins 2806F, Tier 4 Final, emission certified, turbocharged, with High Pressure Injection (HPI), Selective Catalytic Reduction (SCR), Electronic Controls (ECM) 532 HP (397 kW)

Air cleaner, dry type with exhaust aspirated primary, safety elements and service indicator

Antifreeze, -37°C (-34°F)

Coolant filter conditioner

Exhaust, resonator with elbow

Fan, hydraulically driven, suction type, variable speed

Filters, engine oil, full flow and by-pass with replaceable "spin-on" elements

Fuel strainer

Water separator, fuel system

#### TD-40E Extra

Cooling module; includes radiator, transmission oil cooler, hydraulic oil/fan drive oil cooler, charge air cooler (CAC); isolation mounted

Muffler, under engine hood, insulated

#### TD-40R Extra

Cooling module; includes radiator, transmission oil cooler, hydraulic oil/fan drive oil cooler, fuel cooler, charge air cooler (CAC); isolation mounted

Starting aid - ether start, automatic

### DRIVETRAIN

Torque converter, single stage

Transmission: power shift, 3 speeds forward, 3 reverse, combined with 2 speed steering provides 6 speeds forward, 6 reverse, preset travel speed selection and auto-downshift

Steering, planetary type, 2 speed, left hand single lever control (joystick)

Filters, power train, equipment hydraulics, "spin-on" micro glass type

Brakes, foot, spring applied, hydraulically released

Decelerator - right foot pedal; brake - center foot pedal

### OPERATOR'S ENVIRONMENT

Air conditioner/heater/pressurizer/defroster, underseat mounted; A/C condenser mounted behind roof

AM/FM radio ready

Cab with 2 post ROPS, sound suppression, 4 wipers w/washers, inside mirror, dome light, tinted safety glass and air recirculation system (approved according to ROPS - SAE J1040 and FOPS - SAE J231)

Seat, air suspension type, fabric cover, adjustable with arm rests, swivel 14° to right

Seat belt (SAE J386) - 3 in wide, retractable

Sun visor, front cab window

Tools compartment

### INSTRUMENTATION

#### TD-40E Extra

Gauges: fuel level, engine coolant temperature, engine oil pressure, drive train system oil temperature, voltmeter, hourmeter, tachometer

Engine ECM failure warning lights and switches

Gear, range, drive train and engine diagnostic display

Warning lights: air cleaner filter, drive train oil filters, hydraulic oil filters, transmission/clutch oil low pressure, coolant high temperature, drive train oil high temperature, fan drive oil filter

Audible and visual warning system: low engine coolant level, low engine oil pressure

#### TD-40R Extra

Electronic Monitoring System, LCD display:

Normal and diagnostic operating modes for engine and drive train, hourmeter, gear, range

Gauges: voltmeter (battery charge), drive train oil temperature, fuel level, coolant temperature, tachometer (engine rpm), AdBlue® tank level

Engine and drive train diagnostics program indicator lights

Warning lights: engine ECM status, high drive train oil temperature, low coolant level, low engine oil pressure, high coolant temperature, low fuel level, high exhaust system temperature, AdBlue® tank low level, battery charge level, low transmission/clutch oil pressure

Warning lights - filters: air cleaner filter, exhaust system (SCR) filter, fan drive system filter, hydraulic oil filters, drive train pressure filter

Audible alarm for low coolant level, low engine oil pressure, high coolant temperature

### ELECTRICAL

Alarm back-up

Batteries, 4x 12 V, 1920 CCA, maintenance free, cold start

Horn, electric

Cab lights: 2 front, 2 rear

Lights with guards: 2 front lift cylinders mounted, 2 rear fuel tank mounted

Receptacle, charging

Starting, 24 V

#### TD-40E Extra

Alternator 105 A

#### TD-40R Extra

Alternator 150 A

### UNDERCARRIAGE

Track adjusters, hydraulic

Track chain guides, integral

Track chain, sealed and lubricated (LTS) with split master link, 39 links

Track frame, 7 roller, 2 500 mm (98 in) gauge, oscillating type, lifespan lubricated rollers and idlers

Track shoes, 610 mm (24 in) severe service grousers type

### GUARDS

Guards: crankcase (hinged) with front pull hook, transmission, fan, radiator and sprocket rock and dirt deflector

Final drive seal guard

Radiator guard doors, louvered, two-piece, hinged

#### TD-40E Extra

Engine hood, solid, sloped, partially perforated

Engine side doors, partially perforated

#### TD-40R Extra

Engine hood, solid, sloped

Engine side doors, perforated type

### HYDRAULIC CONTROLS

Hydraulic control, 3-spool, 1 lever with pilot operated blade control (lift/tilt), ready for ripper

### OTHER STANDARD EQUIPMENT

Cylinders, lift, with quick drop valve

Diagnostic centers for power train and equipment hydraulic pressures

Drawbar, fixed counterweight, 2 900 kg (6,400 lbs)

Ecological drains for engine oil, radiator coolant and hydraulic oil

Parts manual and operator's manual

Rear operator platform



## OPTIONAL EQUIPMENT

### BLADE EQUIPMENT

**Semi-U**, 18.6 m<sup>3</sup> (24.3 yd<sup>3</sup>), complete with all blade components, includes hydraulic tilt and manual pitch or hydraulic tilt/pitch; blade includes full width wear liner package

**Full-U**, 22.8 m<sup>3</sup> (29.8 yd<sup>3</sup>), complete with all blade components, includes hydraulic tilt and manual pitch or hydraulic tilt/pitch; blade includes full width wear liner package

**Coal Dozer**, 39.8 m<sup>3</sup> (52 yd<sup>3</sup>), complete with all blade components, includes hydraulic tilt and manual pitch or hydraulic tilt/pitch

### REAR MOUNTED EQUIPMENT

Standard drawbar with counterweights, additional 4 plates, 3 945 kg (8,690 lbs) recommended for use with large coal or landfill blades

**Ripper, multi-shank beam**, with three shanks partially mounted, with hydraulic pitch

**Ripper with hydraulic pitch**, single-shank beam, standard dig, with hydraulic pin puller and standard dig shank, partially mounted

**Ripper with hydraulic pitch**, single-shank beam, deep dig, with hydraulic pin puller and deep dig shank, partially mounted

### TRACK SHOES

Track rollers, heavy duty

660 mm (26 in) shoes, severe service

762 mm (30 in) shoes, severe service

800 mm (31.5 in) shoes, severe service

### OPERATOR'S ENVIRONMENT

Heater/pressurizer/defroster, cab without air conditioner (A/C)

#### For use with cab:

- Air recirculation system with MSHA filters, severe service
- AM/FM radio / CD player
- Defroster fans
- Exterior mirrors (2)
- Sun visors (2), additional, for side door windows
- Lights, 2 additional, ROPS mounted

#### Canopy ROPS/FOPS

Vinyl seat, operator platform covers and instrument panel guard

### GUARDS

Final drive rock guard

Track roller guard

Transmission and engine crankcase guards, severe service

#### TD-40R Extra

Engine hood, perforated

### ADDITIONAL OPTIONS

Fast fill - engine crankcase

Fast fill - fuel tank

Fast fill - hydraulic oil reservoir

Fast fill - power train oil reservoir

Starting/charging receptacle plug assembly (required to jump start or charge batteries) with 15 ft cable

Vandalism protection for use with cab or canopy

Maintenance tool kit, 17 items in a metal box

Maintenance tool kit, 36 items in metal box

1000 h maintenance package (filters)

1500 h maintenance package (filters)

2000 h maintenance package (filters)

#### TD-40E Extra

Inspection lamp, 24 V, portable, with 6 m (20 ft) cable

Ether start

Sound suppression package

### EXPORT PACKING

Export packing, drive-on / drive-off, machine on the trailer

Export packing, drive-on / drive-off, machine on the railway wagon

Cab disassembled, protected in box

### SFRs

Centralized lubricating system for machine with/without ripper

Trimble ready option factory preinstalled hydraulics, harness and brackets for the Trimble grade control system components

#### TD-40E Extra

Air precleaner, turbine type (Enginaire), (sandy & dusty operating conditions)

Additional cab heating "AIRTRONIC"

Beacon light, rotating

Coolant heater (Eberspacher), with additional fuel tank

Fuel heater 'Racor'

Heating for standard Fleetguard fuel filter

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