



HOT SLAG APPLICATIONS

DRESSTA CONSTRUCTION EQUIPMENT

For the toughest jobs, think Dressta

Handling hot slag is one of the most dangerous and demanding of tasks for construction equipment, with conditions including extreme heat, toxic fumes and heavy dust.

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 presented by slag handling.

Dressta's 560E Extra and 534E wheel loaders as well as the TD-40E Extra and TD-25M Extra crawler dozers are proven performers in these extremely challenging conditions. They're safe, they're productive and they're built to order at the factory through Dressta's Special Feature Request (SFR) program.

Dressta machines are fitted with heat-resistant fuel and oil lines as well as fire suppression systems. They feature extensive use of guarding to protect cylinders, hoses and fittings from falling objects and air-blown debris. To ensure maximum performance in hot slag handling and to reduce wear, the rippers, dozer blades and buckets are manufactured from high-grade heat-resistant steel.

- Manufactured extra-thick end plates absorb heat to eliminate distortion.
- Heavy-duty, heat-treated hardened cutting edges and ripper shanks are especially designed to break up cooling top layers of slag and penetrate the intense heat of the lower layers.
- Hardfacing on leading edges for rippers and buckets.
- Extreme-duty performance adaptors, side cutters and teeth.

Dressta machines set the standard for others to follow: the result of Dressta's experience in designing highly efficient and productive equipment.

When you need absolute reliability in the most demanding conditions, Dressta hot slag handling solutions will deliver for your business.





The Dressta 'high-temperature pack' includes features specifically designed and recommended for hot slag handling, to protect both the machine and the operator.

Hot material handling made easy

In the extreme operating environment of metallurgical plants, with very high temperatures and a repetitive steel tap-to-tap cycle of 60 minutes, wheel loaders must be 100 per cent operational and available to match the work and the workload.

Hot slag must be removed from the ladle area immediately after the completion of each heat. There is only a 15 – 20 minute window available for the loaders to allow the slag to cool down sufficiently before it has to be removed from the slagging bay of each furnace.

Dressta wheel loaders tailored for hot slag handling operations can be used in metallurgical plants with a furnace (ladle) capable of 25 heats every 24 hours.

The bucket is purpose built to cope with the intense heat.

In extreme operating environments,
Dressta engineering is your guarantee
of safety and efficiency.



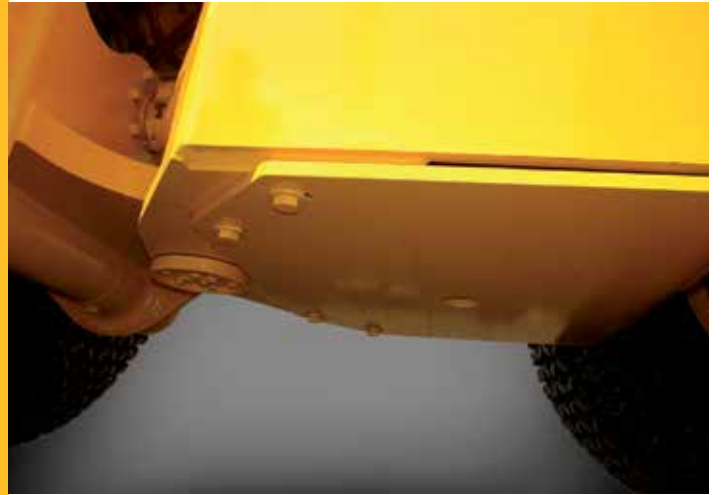


PROTECTION FOR MACHINES

Fire-resistant hydraulic fluid is used instead of standard hydraulic oil in Dressta loaders, and all hydraulic hoses are secured with heat protection sleeves. Meanwhile, bottom guards provide protection against heat radiation for the drivetrain components.

Dressta has designed purpose-built heavy-duty wheel chains to mitigate fire risk and, for use in emergencies, a steel towing rope can be fixed to the loader counterweight.

A specialized air cleaning system ensures dust and debris from the work site is filtered and does not enter the cab, protecting both machine and operator.



Dressta's purpose-built heavy-duty wheel chains mitigate fire risk, and a steel towing rope can be fixed to the loader counterweight in emergencies.

Beating the heat

With purpose-built attachments for specialized heat resistance, Dressta crawler dozers are the answer.

Dressta has devised special heat resistant specifications for the TD-40E Extra and TD-25M Extra crawler dozers operating in hot slag applications.

These specialized dozers break several-ton pieces of slag to accelerate cool-down, and a range of attachments purpose-built for operations in intense heat are designed to protect both the operators and machines working under these extremely aggressive conditions.



FIRE SUPPRESSION

With the ever-present risk of fire, Dressta's specially tailored Fire Suppression System is a must. The operator may use one of two manually-operated remote pneumatic actuators, one in the cab and another from ground level.



Protection a priority

Dressta dozers and wheel loaders working in hot slag applications are customized to shield against excessive heat radiation, ensuring the endurance and durability of the machine.



Dressta equipments' fuel and hydraulic tanks are shielded to protect them from heat radiation. Bottom guards for the crankcase and transmission are redesigned for hot slag applications to include heat insulation material, which protects the underbelly against excessive heat radiation.

Additional heat-resistant insulation material (red sleeves) protects all drivetrain system hoses, cooling system hoses and ripper hydraulic hoses as well as the fan drive system, hydraulic system and fuel lines. It is also recommended that a sealed track system be used instead of lubricated track system.

Dressta's Semi-U blade for hot slag applications is reinforced with additional plates on the moldboard, and there are also replaceable side cutters and additional wear pads under the blade. To enhance durability, blade push arms are reinforced by welding two additional plates together.

Hot slag dozers can be equipped with an optional three-shank or single-shank ripper. Adding additional wear-resistant steel plates reinforces ripper shanks, and ripper tips are hard-faced to withstand harsh working conditions. Additional steel plates are then welded to the ripper tool beam to act as a counterweight. Ripper and blade cylinders are wrapped in heat insulation material.

The slag dozer machines are equipped with a raised air intake centrifugal pre-cleaner, designed specifically for these tough and dusty conditions. The floor plate in the cab may be removed quickly and provides great space for easy access and servicing.



Safety first

Only the most skilled and experienced machine operators are considered for hot slag applications, and keeping these people safe is the most important consideration.

Although the machines are exposed to extremely high ambient

temperatures – which means high heat inside the cab – operators often don't use the air conditioning. This is because, depending on the site, they often leave the hot slagging bay and go straight into an environment with sub-zero ambient air temperatures.

With that in mind, the cab needs to be as protected as it possibly can be: reinforced, heat-proof, double glazed windows; hi-tech air filtration to keep out contaminants; and easy-access fire suppression system to better protect the operator. High-level protective materials and reinforcement for the cab and the machine itself further minimize the risk of fire or damage leading to breakdown in the heat.





Support when, where and how you need it

Dressta helps you get the most out of your equipment by ensuring it is designed to meet your needs and is supported all the way.

Dressta's global parts distribution centers enable rapid parts supply and feature large inventories and advanced logistics systems to make ordering parts simple.

Your Dressta machines come with excellent standard warranties and a range of extended warranty options, as well as ongoing aftersales technical support provided by trained service representatives and mechanics around the world.

With products supplied worldwide through a well-established network of independent distributors, Dressta is as passionate about the industry as you are.



GENERAL SPECIFICATIONS

MODEL	TD-20M Extra	TD-20R Extra	TD-25M Extra
Engine Manufacturer/ Model	Cummins / QSC 8.3	Cummins / QSL 9.0	Cummins / QSX 15
Emission Standard	EPA Tier 3/EU Stage IIIA	EPA Tier 4f/EU Stage IV	EPA Tier 3/EU Stage IIIA
Engine Output - Net	179 kW (240 Hp)	195 kW (261 Hp)	246 kW (330 Hp)
Blade - Capacity	7.04 m ³ (9.2 yd ³)	7.04 m ³ (9.2 yd ³)	9.6 m ³ (12.5 yd ³)
Speed - Forward Max.	10.6 km/h (6.6 mph)	10.5 km/h (6.5 mph)	10.3 km/h (6.4 mph)
Speed - Reverse Max.	12.6 km/h (7.8 mph)	12.2 km/h (7.6 mph)	12.3 km/h (7.6 mph)
Drawbar Pull - Max.	620 kN (139,382 lbf)	640 kN (173,878 lbf)	791 kN (177,150 lbf)
Operating Weight	24,200 kg (53,352 lb)	24,250 kg (53,462 lb)	41,500 kg (91,491 lb)

MODEL	TD-25R Extra	TD-40E Extra	TD-40R Extra
Engine Manufacturer/ Model	Cummins / QSX 15	Cummins / QSK 19	Perkins / 2806F
Emission Standard	EPA Tier 4f/EU Stage IV	EPA Tier 3/EU Stage IIIA	EPA Tier 4f/EU Stage IV
Engine Output - Net	246 kW (330 Hp)	384 kW (515 Hp)	397 kW (532 Hp)
Blade - Capacity	9.6 m ³ (12.5 yd ³)	18.6 m ³ (24.3 yd ³)	18.6 m ³ (24.3 yd ³)
Speed - Forward Max.	10.3 km/h (6.4 mph)	12 km/h (7.5 mph)	12 km/h (7.5 mph)
Speed - Reverse Max.	12.2 km/h (7.6 mph)	14.9 km/h (9.3 mph)	14.9 km/h (9.3 mph)
Drawbar Pull - Max.	794 kN (178,498 lbf)	1157 kN (260,104 lbf)	1225 kN (275,391 lbf)
Operating Weight	41,250 kg (90,940 lb)	67,700 kg (149,251 lb)	67,850 kg (149,584 lb)

Specifications may change from time to time and this brochure may not reflect the latest specifications. Photographs in this brochure may not reflect market configuration. Please consult your dealer to confirm specifications and configurations.



Dressta encourages safe worksites.
Please consult operator's manual before use of any Dressta equipment.



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