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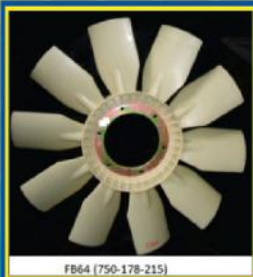
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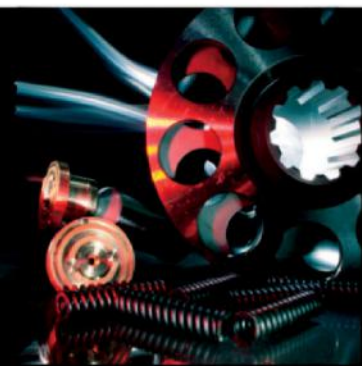
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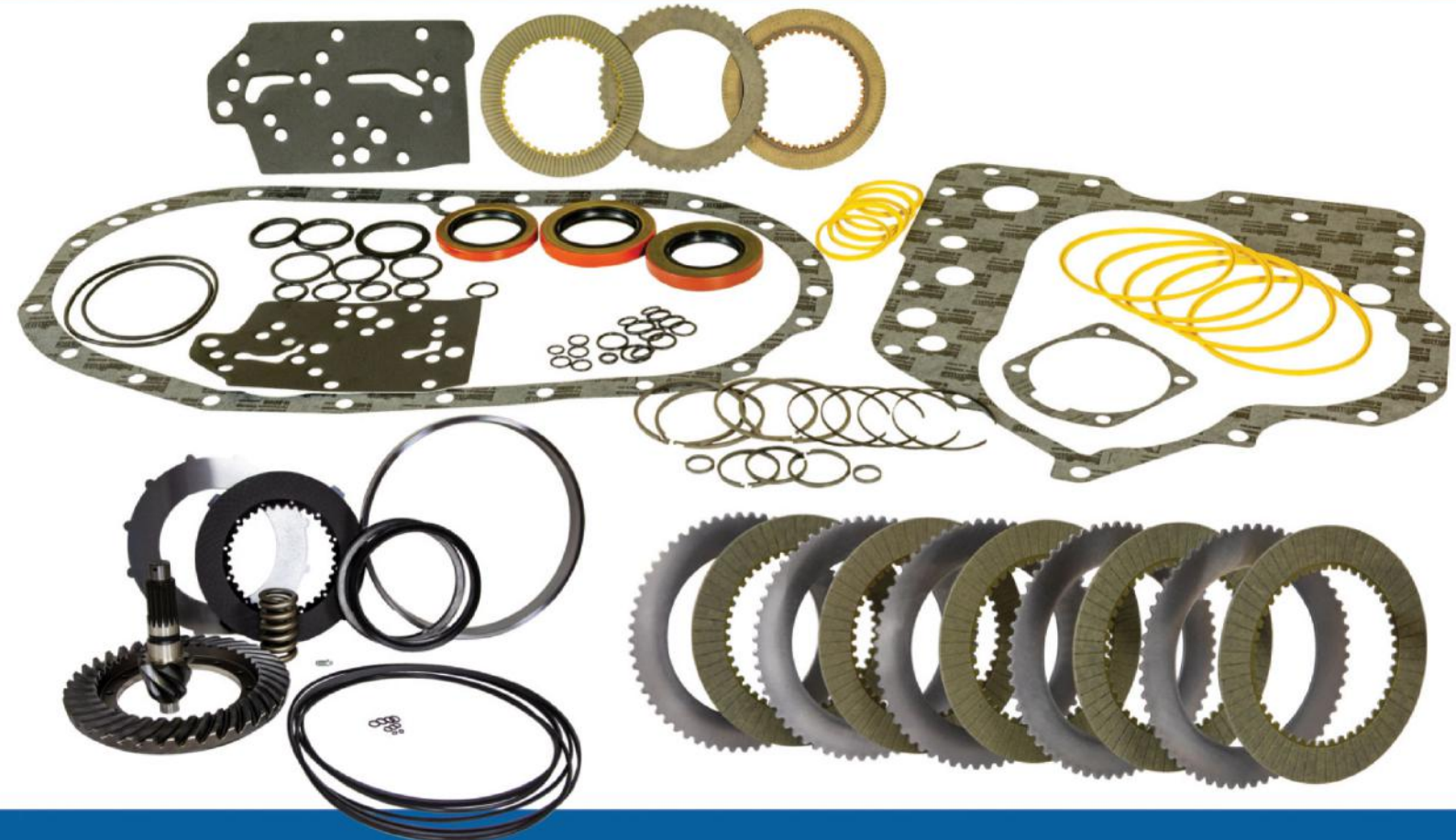


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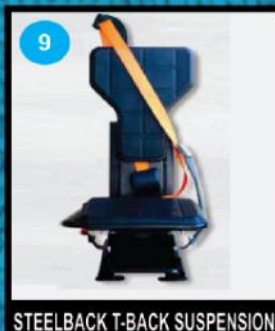
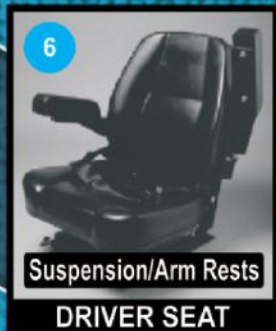
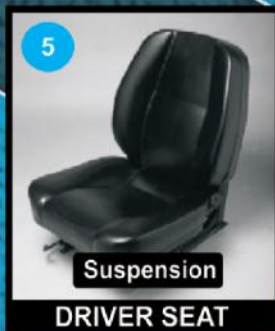
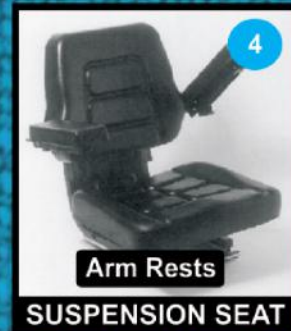
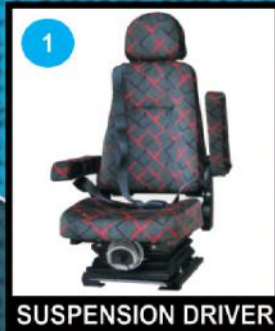


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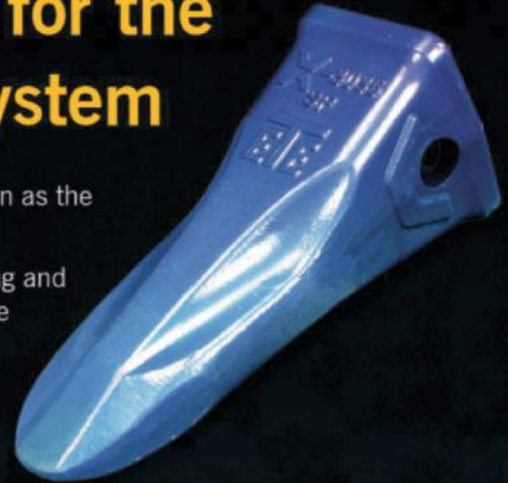


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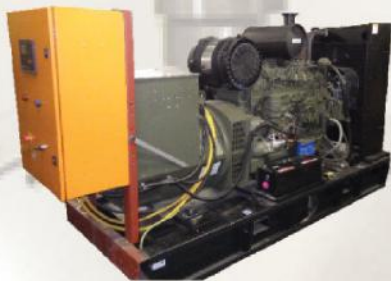


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# What Are Some Of The Most Popular Types Of Skid Steer And Track Loader Attachments?



## BUCKETS

While your skid steer may already come with a general-purpose bucket, you may want something more appropriate for the job at hand. Some buckets have a cutting edge and a particularly low profile, while others may also have a spill guard. 4-in-1 buckets are also very popular, as the wide opening jaws allow for easy loading and dumping. 4-in-1 buckets can also be used for clamping objects like scrap material and logs.

## BROOMS

You'll want to clean up as quickly as possible when your heavy-duty work is done, and for this type of job, you need a broom attachment. As you might expect with these versatile machines, you can choose a broom attachment depending on the environment and the debris. Use a pickup broom with a rotating head that allows you to brush the dirt into the integrated hopper. Angled brooms are perfect for confined spaces (like car parks), where the broom head can be set in a certain position to gather the debris for subsequent pickup.

## TRENCHERS

A trencher is a must-have attachment when you need to lay electrical lines from one part of your property to another or install irrigation ditches to help grow your crops. Many of these devices have an integrated attachment that can also move the displaced soil away from the trench. Choose the attachment based on your required depth, and there are different solutions for varying soil conditions. If you are working in the toughest terrain, fit a trencher attachment with tungsten carbide teeth to breeze through the challenge.

## AUGERS

If you need to dig holes with maximum efficiency, you need an auger for your skid steer loader. These hydraulic devices can be attached easily and will apply significant torque to the job at hand. Choose different bits depending on the scale of the challenge, with standard bits more suited for loose soil and industrial bits preferred for rocky conditions. You'll be able to dig holes for a brand-new fence around your plantation or plant shrubs or saplings at your new nursery.

## POST RAMMERS

Once you have finished digging your holes with the auger attachment, change over to a post rammer. This will allow you to install fence posts safely and with maximum efficiency, no matter the post's size or the hole's depth. You can also get these rammers in a number of different styles, like a drop hammer, vibratory post driver or breaker.

## FORKS

Consider a fork attachment for your skid steer if you need to lift and move cumbersome loads. These devices are widely used on farms or in lumber yards, as well as in various construction environments. Choose from multiple fork tools to give you the required lifting and moving capability. These forks allow you to maintain visibility and deal with heavy loads efficiently and safely.

## SPREADER BARS

When you have rough land that you need to smooth out or have to dress a large area with some new soil to prepare it for seeding, choose a spreader bar attachment. These are designed to level all types of surfaces and fill in the ground smoothly as the machine moves from point to point. The design of the bar will also allow you to transport any excess material to the end of the run, and its attachments can generally level and spread soil in any condition.



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# Your Biggest Fan

*(Radiator Fan Problems)*

Your vehicle's engine makes a lot of heat when it's powering you down the road, so it needs a way to get rid of that energy. That's why your vehicle has a cooling system, complete with a radiator and one or two radiator fans, also called cooling fans. Those fans make sure air keeps moving across the radiator so that the heat stored in the coolant can be dissipated outside when the vehicle is stopped or not traveling fast.

Radiator fans can develop problems and can stop working properly or stop working altogether. Some signs to look for? If you're driving slowly and idling and you see your temperature gauge moving toward the red or hot zone, that could spell trouble. Another thing you may notice when a radiator fan is failing is that there may be a loud noise coming from the engine compartment.

There are two types of radiator fans. One is mechanically connected to the engine and uses the engine's rotational energy to turn it. The other is an electric fan and is the type used in most newer vehicles. In the electrical type, one of the components, such as a relay or fuse, may fail, causing the fan to stop turning. In the mechanical type, since it's driven by a pulley/belt mechanism, one of those components may break or stop working properly. A clutch can wear out or a belt may slip or break.

When your cooling fan isn't working properly, it may cause your engine to overheat which could lead to expensive damage. That's why it's important to make sure you visit your service facility if you notice any of these symptoms. A technician is trained to diagnose the problem and make sure your radiator fan is doing its job. When it comes to your vehicle, your radiator fan really is your biggest fan.



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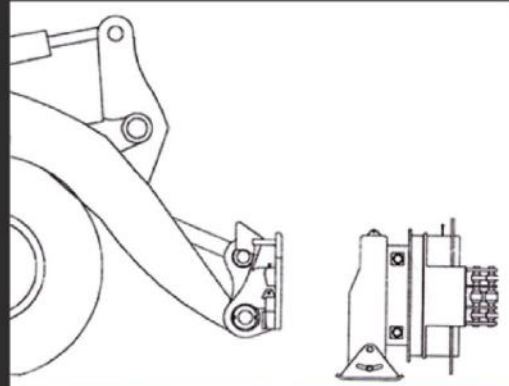
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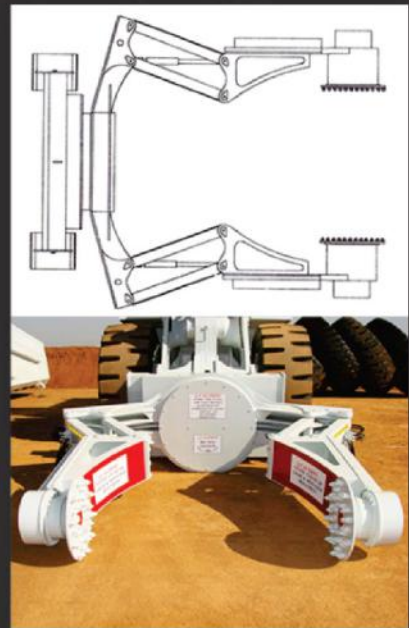


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# 10

## Simple Construction Site Safety Rules

*Construction sites are dangerous places to work. Follow these 10 simple construction site safety rules to keep yourself, and others, safe. From wearing your PPE, to following procedures, you can help make your site a safer place to work, and prevent accidents.*

### 1. Wear your PPE at all times

When you enter the site, make sure you have the PPE you need. PPE is important, it's your last line of defence should you come into contact with a hazard on site.

### 2. Do not start work without an induction

Each site has its unique hazards and work operations. No two sites are exactly the same. Make sure you know what is happening so that you can work safely.

### 3. Keep a tidy site

Construction work is messy. Slips and trips might not seem like a major problem compared to other high-risk work happening on the site, but don't be fooled.

### 4. Do not put yourself or others at risk

Actions speak louder than words. Especially on construction sites where one wrong move could put you in harm's way. Set a good example, think safe and act safely on site.

### 5. Follow safety signs and procedures

Follow construction safety signs and procedures. These should be explained to you in your induction (rule number 2). Your employer should ensure a risk assessment is carried out for your activities.



## 6. Never work in unsafe areas

Make sure your work area is safe. Know what is happening around you. Be aware.

## 7. Report defects and near misses

If you notice a problem, don't ignore it, report it to your supervisor immediately. Fill out a near-miss report, an incident report, or simply tell your supervisor.

## 8. Never tamper with equipment

If something's not working, or doesn't look right, follow rule number 7 and report it. Don't try and force something, or alter something, if you're trained to or supposed to.

## 9. Use the right equipment

One tool does not fit all. Using the correct tool for the job will get it done quicker, and most importantly, safer. Visually check equipment is in good condition and safe to use before you start.

## 10. If in doubt, ask

Unsure what to do? Or how to do something safely? Or you think something is wrong? Stop work, and ask. It takes 5 minutes to check, but it might not be so easy to put things right if things go wrong.





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# THE ADVANTAGES OF DISC BRAKES

## FOR HEAVY-DUTY TRUCKS

Brakes appear as one of the crucial factors when considering the specifications of heavy-duty trucks. A lot of individuals get confused between disc and drum brakes. Well, disc brakes on heavy-duty trucks come with several advantages.

The cost of owning a disc brake is lower compared to a drum brake, which is why it represents a better value to the user. Talking about the performance, it is usually resistant to fading. There is the minimal impact of contamination due to rust, water, or dirt. Many users get rid of brake adjustment issues, as the calipers are self-adjusting.

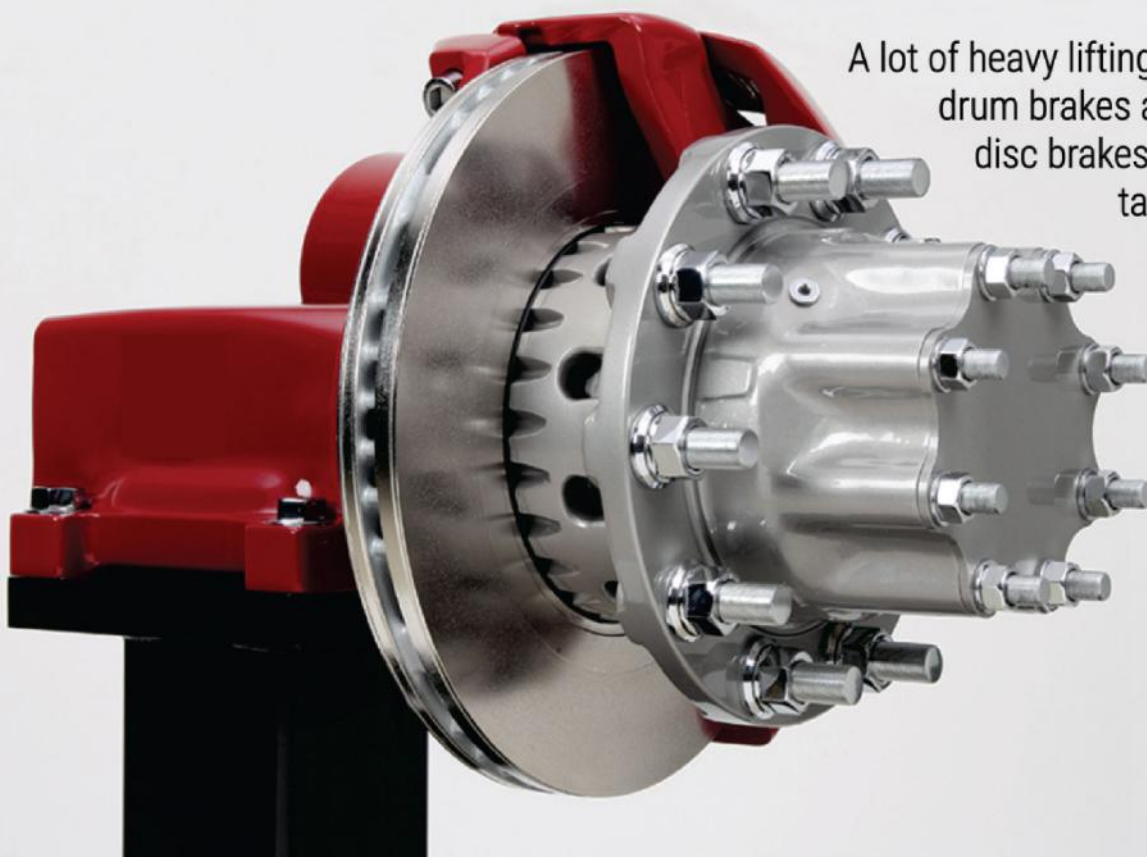
For many truck owners, disc brakes are a better option due to less maintenance. In a drum brake, there are nine to 12 moving parts. Conversely, there are fewer moving parts on disc brakes, reducing the need for maintenance. This feature ensures longer life.

When it comes to inspection or replacement, friction pads are easily accessible. For cleaning purposes, one can easily reach the calipers.

You might have noticed there is no need to remove the hub and rotor when the entire caliper is removed for maintenance purposes.

Thanks to these features, many individuals opt for disc brakes on heavy-duty trucks.

A lot of heavy lifting is involved when drum brakes are replaced with air disc brakes. It can be time taking and dangerous for the mechanics.





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# SUMMER TRUCK DRIVERS:

## Tips to Beat the HEAT

Whether you've recently completed truck driving school or are a seasoned truck driver, you'll want to make sure you take the proper precautions to beat the heat while on the road during the summer months. Follow the truck driving safety tips below and you'll be much more comfortable, happy and safe.

### Stay Hydrated

It's easy to forget to drink water while on the road, but it's extremely important in order to stay properly hydrated - particularly during the hottest months of the year.

Keeping a couple of bottles of water next to you while you're driving will serve as a constant reminder and make it practical for you to drink water throughout the day.

### Keep Tires Inflated

In the higher temperatures of the summer, the chance of tire blowouts increases. Under-inflated tires can further increase the risk for blowouts, so you'll want to be sure you check that your tires are properly inflated before you drive.

### Check Your Brakes Regularly

Check your brakes before you start your drive because higher temperatures can result in a loss of friction when the brake parts can't absorb any more heat.

### Protect Yourself from the Sun

Spending several hours a day driving means you will have a lot of sun exposure. Don't forget to follow sun safety tips like wearing sunscreen and wearing long sleeves.

### Be Aware of Crowded Roads

Roads tend to be a lot more crowded during the summer months with families taking vacations and a lot more people having time off work. Heavy traffic volume presents more dangers for truck drivers, so you'll want to be extra alert and aware of other vehicles on the road.



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# Disinfecting Heavy Equipment.

*With the growing concern of cleanliness we are constantly being reminded to wash our hands, wipe down commonly touched surfaces, and avoided touching our face. If you operate heavy machinery, you should also be regularly sanitizing the equipment after operating. Unfortunately, this isn't as easy as spraying some bleach and calling it good. Knowing how to properly clean and disinfect the cab in your heavy equipment is extremely important in order to reduce the risk of infection for you and your team without damaging pricey equipment.*

## **What To Use:**

*The interior components of the cab like touch screens, switches, and upholstery require special treatment. Use one of these EPA-approved disinfectants, that are designed to kill the First Time Around, while also being safe for interiors. If possible it is best to choose a sanitizer that is contactless, removing the need to wipe down surfaces after applying. Most consumer products usually come ready to use, but some products may have to be diluted and properly ventilated. We recommend checking your manufacture guidelines prior to choosing a disinfectant. If no manufacturer guidance is available, consider the use of alcohol-based wipes or sprays containing at least 70% alcohol to disinfect. CDC recommends ensuring a contact time of at least one minute. We highly recommend not using products containing bleach to clean your cab.*





## **Before Disinfecting:**

Prior to cleaning your cab, follow proper safety guidelines by using gloves and a face mask. Since the virus can spread asymptotically, you do not want to skip this step as it is the best way to ensure the surfaces are not re-infected while you are cleaning. It is also recommended that you allow the cab to ventilate for a few minutes before entering and after cleaning, as the life span of the virus in the air particles confined in a cab is unknown.

## **How to Properly Sanitize Your Equipment:**

When you are ready to start cleaning you will need to wipe down any surfaces that are dirty or covered in dust with soap and water before applying disinfecting products. Once the cab is cleaned you can spray your sanitizing solution on commonly touched surfaces such as the handles, floor mats, windows, touchpads, knobs, seat buckle, and the steering wheel. On the exterior of your machine spray down the handles, latches, gas cap, and grab bars.

Your equipment has certain surfaces that should be cleaned with careful consideration. When cleaning electronic consoles and display interfaces, it is best to use a disinfecting wipe or spray your solution on a microfiber cloth to wipe down the keyboards and displays. This may seem like an extra step, but it will ensure that no dried residue interferes with the functionality and performance of your equipment. When cleaning the upholstery, check that your product is free of bleach and or safe on leather/ vinyl to prevent damage.

**Once you have finished sterilizing your machine, wash your hands before touching any other surface to prevent spreading anything you might have come in contact with. For more information, The CDC has provided guidelines and tips for "Cleaning and Disinfection for Non-emergency Transport Vehicles."**



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WHEN IS IT TIME TO

# Replace Your Bulldozer

**N**ow that you have an idea of the components inside your bulldozer, it is time to look at how they are doing. If there are any worn parts or pieces that may be difficult for you to replace then this might indicate when it is time to sell and purchase a new dozer instead of rebuilding yours.

One way to help prolong the life of your bulldozer is through scheduled maintenance. A lot of this depends on how often you use your machine and what type of terrain it works in, but a general rule would be to service your dozer every 250 hours.

Additional Considerations for Lifespan Dozers, like excavators, have an undercarriage that must be maintained. The underside of a bulldozer, for example, supports a heavy machine and is subject to its working conditions.



Make sure the dozer you're buying has an undercarriage suited for the job you'll be doing with it.

Hauling dirt on flat ground, for example, isn't going to put nearly as much strain on the underside of your vehicle as heavy or abrasive materials handling in a landfill; crawling over various things and difficult terrain.



This will clean out all the dirt and grime that has built up over time as well as top up all the fluids and check the tightness of screws and bolts. While some of these factors may be difficult to determine, they are important ones to consider when deciding on a replacement.

The distinction between standard and heavy-duty undercarriages has a purpose. Following ideal handling and operation procedures, such as restricting reverse movement, may also assist to avoid damage the underside.



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# 5 TIPS

## For Getting The Most Out Of Your Construction Equipment

*Whether you are purchasing brand new or used construction equipment, ensuring you are getting the most out of each piece is the next crucial step. Although many companies may want to forge ahead and utilize all equipment right away, careful considerations is needed to make sure you are taking full advantage of all equipment items. This article outlines the steps you must take to ensure that your company is using equipment profitably and efficiently. Through these five tips, find ways to proactively extend the life of your construction equipment and machinery.*

### Maintain a Good Relationship With Suppliers

The dealer who sold you your equipment isn't just a sales person, he or she is a wealth of knowledge about your new investment. If questions arise about the operation, maintenance, or anything else regarding the care of your equipment, a good relationship with your supplier means you will always have someone knowledgeable to call for an answer. Similarly, if you encounter any problems with your machinery, that same supplier can probably help you troubleshoot and get you back on the job site. Ultimately, your supplier is an incredibly valuable resource when it comes to understanding the ins and outs of how your equipment works. Forming a long-lasting relationship will only bode well in the future, if you need to purchase other pieces going forward.

### Properly Train Employees

Good employee training can make a huge difference in extending the life of your equipment. When operators aren't 100% sure about how to use the various controls, the potential for unnecessary wear and tear – or even worse, equipment damage – is significantly higher. By putting your employees through a training program or providing one-on-one instruction, you create well informed team members who will use your machines properly. Occasional training refreshers are also a good idea to keep your employees well-versed on procedures and keep your equipment running smoothly.



## Store Equipment Properly

While construction equipment is designed to withstand all sorts of rugged conditions, it's not designed to be left out in jobsites, or exposed for very long periods of time. Making an effort to keep your machinery in a proper storage facility will go a long way in preventing the possibility of damages. Temperature-related stresses are often avoidable if equipment is stored properly. Although the circumstances may dictate that equipment is to be left out over a short period, try your best to avoid this. Moreover, if a piece of equipment, machinery or vehicle has done its job on a project, make it a priority to store it away in case of any unpredictable accidents that may occur on a busy jobsite. Similarly, cleaning equipment regularly, especially before prolonged periods of storage, will help to keep it in good working condition and have it ready for your next job.

## Keep Up With Regular Maintenance

All machinery needs regular preventative maintenance to operate well. Check with your supplier (see first tip on keep up a good relationship with suppliers) to get your specific equipment's maintenance schedule, and then perform that maintenance in full every time it is due. Regular maintenance often includes oil analysis and changing, cleaning residues, and replacing worn out components. It is easy to forget about this or prolong it until later, but keeping your equipment well maintained is essential. By not being diligent and leaving equipment maintenance overdue, you may experience irreversible damage which can shorten its life cycle.



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# 8 WAYS TO CONTROL EROSION AT CONSTRUCTION SITES

Erosion control is one of the biggest concerns for many large construction projects. Multiple factors can cause erosion, and every situation calls for specific solutions based on the site and the severity of the problem. Controlling erosion is important not just for preserving the construction site and protecting the new structure but also for minimizing the environmental impact that the project has on the surrounding area. Erosion control measures can add significantly to the project cost, and manufacturers are continually developing innovative products to minimize cost as well as environmental impact.

## 01 Articulated Concrete Blocks

Articulated concrete blocks are revetment systems that can be constructed in a wide variety of shapes and thicknesses. The blocks form a grid of interconnected units used for erosion control on embankments of waterways and manmade drainage channels.

## 02 MSE Walls

Mechanically stabilized earth (MSE) walls have replaced many traditional concrete retaining walls in recent decades. MSE walls offer several advantages over conventional reinforced concrete walls, including ease and speed of installation. This system also is adaptable to a variety of sites.

## 03 Turbidity Barriers

Turbidity barriers are used to prevent soil erosion and migration of contaminants in water. They are typically made of a geotextile membrane that floats and is anchored to the bottom of the water body with weights. Sometimes turbidity barriers are used for supplemental sediment control.

## 04 Geotextiles

Geotextiles are commonly used to control erosion and improve soils over which roads, embankments, pipelines, and earth-retaining structures are built. Depending on the application, geotextiles may have an open mesh weave, a warp-knitted structure, or a closed fabric or nonwoven surface. The specific type of geotextile used is based on several criteria, including separation, filtration, drainage, reinforcement, sealing, and protection.



## 05 French Drains

A French drain is a system of underground piping—called drain tile—that channels surface and groundwater to an exit point. The drain tile may also be perforated to allow water to seep into the soil below the tile, while excess water travels to the exit point. French drains are installed with a slope of about 1 inch of drop per 10 feet of horizontal run.



## 06 Soil Nails

Soil nailing provides a resisting force against slope failures and offers relatively quick installation. The basic installation procedure involves drilling into the soil and placing a series of steel bars—the nails—deep into the earth. The nails are capped at the surface with a facing to create a barrier similar to a retaining wall. Soil nails also can be driven into the soil and may or may not be grouted in place after installation.

## 07 Riprap

Riprap is a commonly used method to protect soil from erosion in areas of concentrated runoff. Riprap is a layer of very large stones interlocked together to act as a barrier on slopes that are unstable because of seepage problems or areas that are receiving a large, concentrated flow. This method is commonly used to minimize erosion of lake shores and riverbeds. Riprap often is installed over a synthetic geotextile membrane to prevent the soil from moving through the riprap.

## 08 Dust Control Methods

Dust control measures apply to any construction site where there is the potential for air and water pollution from dust traveling across the landscape or through the air. Dust also represents the potential for wind erosion. Common methods for dust control in soil include misted water, silt fences (and similar barriers), and polymer additives.

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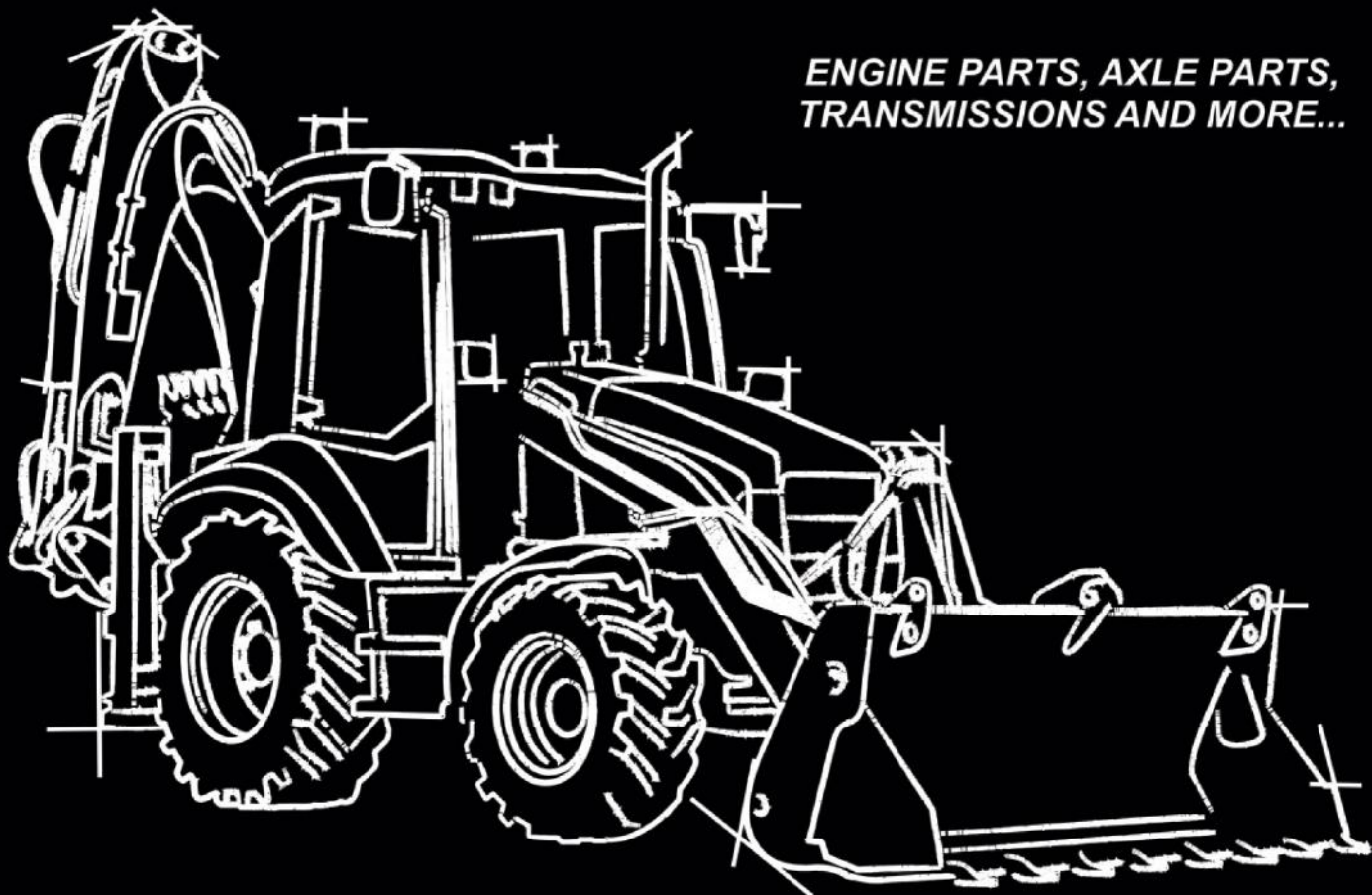
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# DUMPERS

- and their  
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**O**therwise known as articulated dump trucks, these are generally the largest of the earth-moving plant types. Capacities can vary from 5 m<sup>3</sup> to 30 m<sup>3</sup>. They are the most suitable option for sites where large amounts of material needs to be transported over distances both on and off site.

The vehicles have heavily-plated bodies and are hydraulically operated which allows for quick discharge. There are a wide range of dumpers available with differing carrying capacities and discharge options (front, side or elevated tipping). The most common options are:



## Standard dumper

Diesel powered dumper with gravity tipping skip. Heaped capacity ranges from 0.7-1.5 m<sup>3</sup>.

## Swivel skip dumper

Hydraulic tipping skip mounted on 180-degree slewing turntable.



## Highway dumper

Much larger dumper used to transport spoil off site. The rear tipping skip is hydraulically operated, and the usual heaped capacity is 10 m<sup>3</sup>





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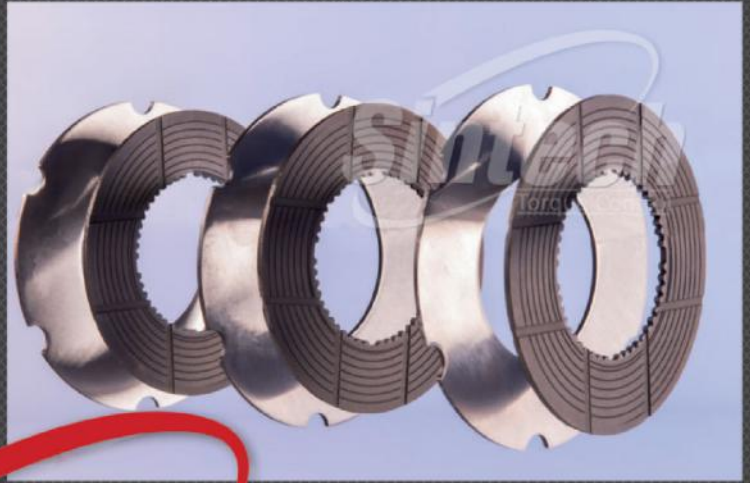
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# Must-Have Tools

## For Your Garage Workshop

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Your garage is where you take all your large-scale projects, but you cannot build well without the proper instruments. Here are the must-have tools for your garage workshop.

### The Workbench

No high-quality work is easy to do without a stable workbench. Whether you build one yourself or find one elsewhere, your workbench is your workstation for all garage workshopping. Before you select your workbench, anticipate your needs and projects. Will you need to mount wood-cutting instruments, or do you need wide space for large items? Make sure you factor in the dimensions of your garage and the area where you'll likely need to complete projects.

### Common Toolset

A proper toolset will give you the breadth you desire for every project, though you may need specialized power tools for the depth of ability. Common toolsets typically include tape measures, hammers, utility knives, saws, levels, screwdrivers, wrenches, and pliers. You can choose a large toolset if you need many types of each tool, or you can opt for a small set of bare essentials. Do your research on the durability and application of the items before you choose a set.





## Power Tools

Power tools both accelerate and simplify many workshopping processes, so you must have the equipment that relates to the work you'll do consistently. For example, if you focus on woodworking, you'll want a circular saw handy to cut cleaner and faster edges. Or, if you plan on assembling larger items, you'll want a cordless power drill with an assorted set of drill bits.

These bits will range from screwdriver bits to hole-boring bits. You can also put an electric lock pick tool to use if you construct doors or even lock yourself out of your own home from the garage. Like the common toolset, you'll want a specific power toolset depending on your projects.

## Cleaning Supplies

Garage workshopping is a dirty business, often leaving wood shavings and rusty tools in its wake. You will want quality cleaning supplies to maintain a pristine working environment. Keep a shop vacuum handy to suck up your dust from workshopping. This heavy-duty vacuum handles much larger volumes of debris than your typical home vacuum cleaner. You'll also want a set of steel, copper, and brass cleaners, along with steel-bristled brushes and degreasers, to both clean and polish your tools. With the proper care, you can extend the lifetime of your instruments well beyond normal.

Stock up on these must-have tools for your garage workshop so you can complete every project with precision and passion.

Workshopping is an excellent hobby, but only with the right tools in hand.



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# Personal Protective Equipment (PPE)

**S**afety is a major concern for any laborer. Accidents are extremely prominent in the construction industry due to the absence or inadequate use of Personal Protective Equipment (PPE). PPE is equipment that protects workers against health or safety risks on the job and reduces employee exposure to hazards. The dangers can be anything from slippery wet floors to loose falling debris. PPE includes items such as protective helmets, eye protection, high-visibility clothing, safety footwear, safety harnesses and, sometimes, respiratory protective equipment.

It is no question that this line of work presents many risks. Understanding the benefits of PPE as well as liability insurance for your business can be tremendously impactful in reducing the risk of injury and claims in the construction sector.

## The Head

Hard hats are commonly utilized on construction sites. They are designed to protect against flying or falling objects that would otherwise significantly harmed the worker. Some hard hats come with face shields and earmuffs for further protection.

One of the most important things to remember is that hard hats must fit well in order to work appropriately. Make sure that your team all has well-fitting hard hats, or their head protection will not be adequate.



## Eyes and Face

Proper eye and face protection is extremely important. Safety goggles and full face shields are available to protect the eyes and face. This equipment is especially vital in specific fields such as metal work, wood-work, hot-work and air-tool operations.



## Respiratory

Respiratory protection should never be underestimated. It is truly essential on sites where toxic substances are present. This protection was created to protect you from dust, fumes, paint spray, pesticides and other harmful substances that could cause permanent damage. Respirators will likely be needed when sufficient ventilation is not attainable.

## Hands and Skin

Construction work normally requires a lot of hand use. About 150,000 hand injuries are reported every year. Occupational skin diseases are as regular as dermatitis, skin cancers, and other skin injuries. Infections are the second most common type of occupational disease.

Because of this, glove usage is critical to protect the skin. Common PPE glove types are rubber, cut-resistant, chainsaw and heat-resistant gloves. Take advantage of gloves to avoid hazards involved with chemical, glass, sheet metal, electricity work.

## Hearing

Approximately 82% of occupational hearing loss cases are those working in the manufacturing sector, so ear protection is a must.

Earplugs and earmuffs are common hearing protection tools. Note that earmuffs are effective in reducing high-frequency noise, while earplugs should be used for reducing low-frequency noise.



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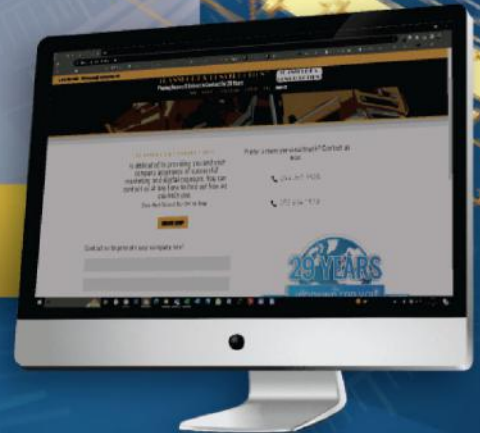
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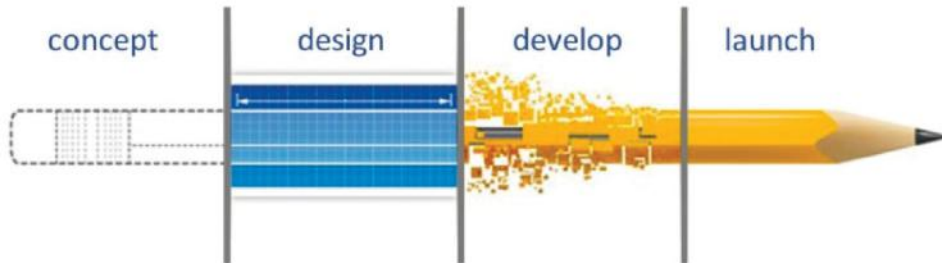
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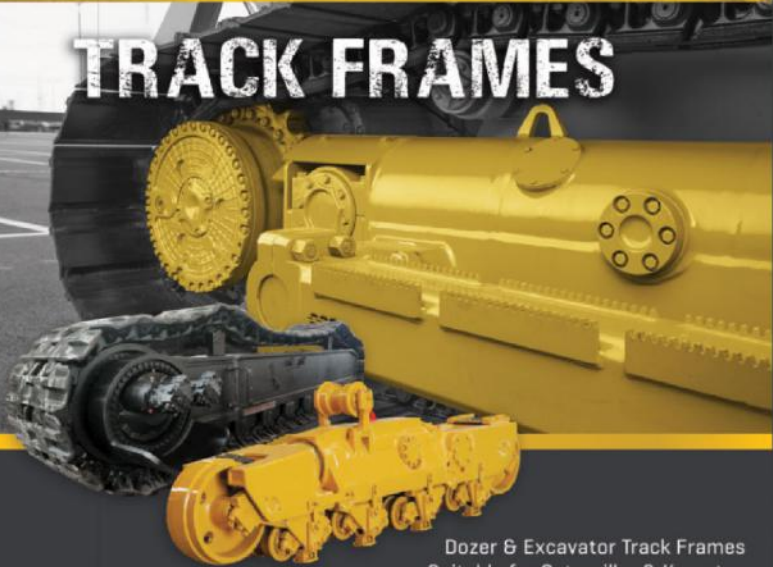


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