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Ventilation & Cooling Hazards On Underground Mines



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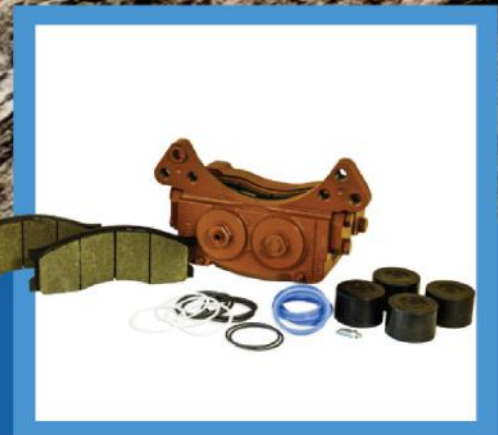
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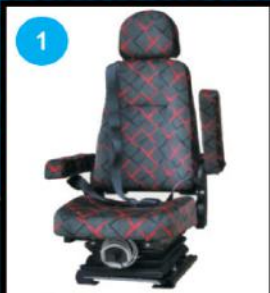
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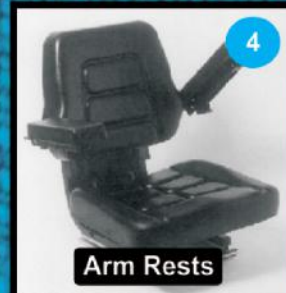
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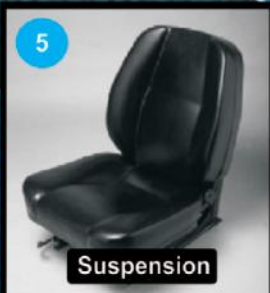
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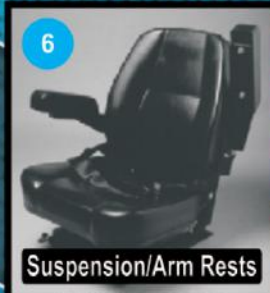
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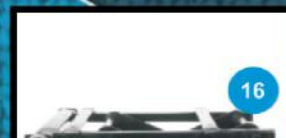
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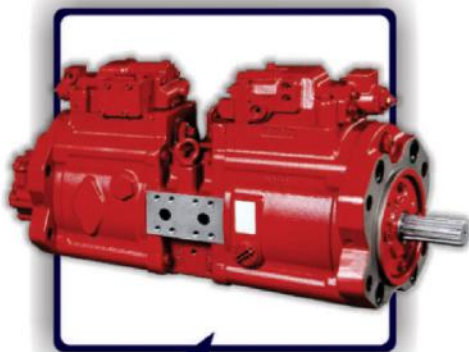


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TIPS TO HELP

the Preventing of TIP-OVERS

Although the benefits of safe work practices apply to all types of equipment, it is especially true for equipment like mobile elevating work platforms (MEWPs). This is because these machines are designed to put people up in the air — even if it's just a few feet off the ground — to safely complete work at height.

According to the ANSI A92.20 standards, MEWPs must be designed and tested to ensure they meet certain stability requirements. Because of their design and how they work, changing conditions or misuse of the MEWPs can negatively affect the stability of the machine, potentially leading to a tip-over.

As the saying goes, **“The best way to avoid an accident is to prevent it.”** Here are six safety tips every operator on any job site should follow every day to proactively prevent a MEWP from tipping over.



Tip #1: Follow instructions

Always read and understand the Operation & Safety manual before operating any MEWP. The manual will outline the necessary precautions that operators need to follow for proper and safe machine usage, including the appropriate safety, training, application, inspection, and operation of the MEWP.



A copy of the machine's Operation and Safety Manual, AEM Safety Manual (ANSI markets only) and ANSI Manual of Responsibilities (ANSI market MEWPs only) should be enclosed in the weather-resistant storage container of the MEWP. If these manuals are not in the MEWP, please contact the MEWP's original equipment manufacturer (OEM), for a copy of the machine's Operation and Safety Manual and the American National Standards Institute (ANSI) for a copy of the Safety Manual and Manual of Responsibilities.

Tip #2: Conduct a workplace inspection

Before operating any MEWP, it's essential to complete a workplace inspection to identify potential hazards on and around the job site.

To do this, have the operator walk the route to/around/from the job site, looking for hazards, including obvious ones and not-so-obvious ones like some of the following (this is not an exhaustive list):

- * Rough, slippery or unstable surfaces such as loose dirt or unsupported floors;
- * Drop-offs or holes;
- * Slopes, ditches or bumps;
- * Debris
- * Floor/ground obstructions like curbs and manhole covers;
- * Underground infrastructure like wells, septic tanks, foundations or buried utilities;
- * Inadequate ceiling heights;
- * Overhead electric power lines and communication cables;
- * Other overhead obstructions;
- * Other hazardous locations and atmospheres;
- * High wind and other severe weather conditions, such as ice;
- * The presence of others in close proximity to the work.

Tip #3: Plan ahead

Once the hazards are identified, the operators should develop a plan to avoid these hazards. Planning ahead enables MEWP operators to proactively think through each aspect of the job — from the work environment to the tasks to be performed.

The plan should include a complete list of the job site hazards, as well as an outline of what corrective actions need to be taken to avoid and/or eliminate the hazards before and during machine operation. And because conditions can change throughout the day (for example, turf softening after a rain shower), workplace inspections should be done at the beginning of every work shift or at each operator change.

Updating the hazards plan regularly will make sure that each operator is fully aware of and ready to work in the most current job site conditions.

Tip #4: Know about the ground conditions

Tip #5: Be aware of the weather

Tip #6: Take all safety precautions



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Demolition Safety

HAZARDS & PROCEDURES

Demolition Safety Hazards.

Hazards specific to demolition work are primarily equipment and process related and failure to identify them can result in failure to prevent and injury or illness. Here is a short list of some demolition safety hazards you might consider:

- 1 - Falling debris from overhead structures
- 2 - Unprotected cabs which allow material to strike operator
- 3 - Excavator tipping and rollovers
- 4 - Equipment fires
- 5 - Respiratory hazards from dust created during the demo process
- 6 - Trips and falls while entering and exiting demolition equipment

Safety Work Procedures for Demolition

In order to reduce the risk of employee injury while performing demolition work, safe work procedures should be implemented and enforced. You might consider the following safe work procedures for your business:

- 1 - Only trained and certified operators may operate demolition equipment

- 2 - All demolition zone shall be taped off with warning tape in order to control access

- 3 - Demolition structures and sites shall have water applied prior to work in order to minimize hazardous dust

- 4 - Equipment shall be inspected before and after each use in order to clear out any fire hazards or identify other hazards

- 5 - Precautions shall be taken to avoid operating equipment on excessively steep work ground

- 6 - Equipment shall offer adequate protection for the operator from falling and protruding debris.



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MASTER CYLINDER

is Going Bad



All of your braking operations hinge on the brake master cylinder working well. Your driving safety depends on it. If your vehicle's master cylinder is going bad, there are several warning signs to watch out for.

- Brake fluid is low:

A vehicle's master cylinder is responsible for supplying hydraulic pressure to the brakes. If it is leaking fluid, that pressure is reduced, and the brakes may not work as well as they should. You'll notice that the fluid level in the reservoir is low or empty, and that topping up the fluid isn't a long-term solution.

- Brake pedal sinks or feels spongy:

A spongy or soft brake pedal can be caused by a leak in the system, and it can cause your brakes to fail. When the brake pedal sinks, that usually means that the fluid is being pushed out of the system with pressure, and when the pedal feels spongy, it indicates the presence of air in the lines. Either way, it can change how your car's brakes perform.

- Contaminants in the brake fluid:

Another warning sign is if your brake fluid looks dirty or contaminated. It should look a light golden color or clear, but it does get darker when it has contaminants in it. These can be from the master cylinder allowing moisture into the system or, more likely, there are metal shavings from the master cylinder failing internally.

- Grinding noise when brakes are applied:

If your vehicle is making a grinding noise when you apply the brakes, it could also indicate that the master cylinder is going bad. The noise itself is from worn-out brake material, though, not the master cylinder itself. It's possible that there's more pressure to the front or rear brakes than normal, wearing them out prematurely and causing the grinding noise.



- Vehicle pulls to one side when brakes are applied:

When the vehicle pulls to one side when brakes are applied, it could also be the master cylinder. In a situation like this, the vehicle's brakes aren't getting pressure evenly on both sides, and the brakes grab and pull the car one way or the other.

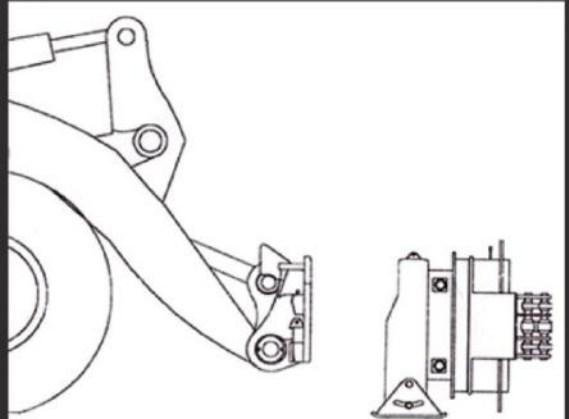


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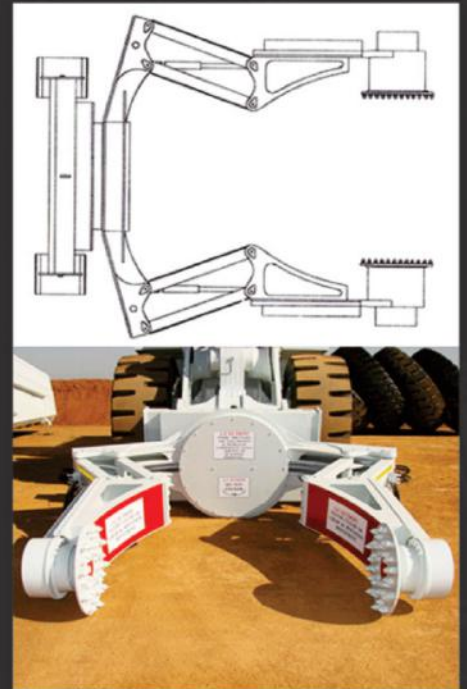


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MOBILE ELEVATING

WORK PLATFORMS

Once the equipment is in the field, operators must follow the prescribed operating practices outlined in our manufacturer's recommended guidelines to keep the equipment working safely and productively.

The best way to reduce the risk of incidents from happening while operating a mobile elevating work platform on a jobsite, operators should know.

follow **these 10 tips** as a minimum for safe work practices:

- 1 -

Receive proper training (both general training and hands-on practical training) on, as well as become familiar with, the exact aerial work platform you will be operating. This includes thoroughly reading the **operator's manual and safety signs on the machine**, as well as understanding the function and location of all safety devices and controls before beginning operation.

- 2 -

Read, understand and obey all of your employer's safety rules and worksite regulations, as well as any applicable **local, governmental or provincial regulations** that apply before operating the machine.

- 3 -

Perform a pre-operation inspection and **function tests** on the equipment before each shift. If the machine fails any of these inspections or tests, make sure it is immediately tagged and removed from service until it can be repaired by a qualified service technician.

- 4 -

Perform a workplace hazard assessment prior to moving machine to the jobsite. Look for **hazardous situations** such as drop-offs and holes, slopes, slippery or unstable surfaces, overhead obstacles, power lines



and any other hazards that may exist and develop a plan to avoid those hazards through all phases of machine operation.



- 5 -

Wear the proper fall protection and always connect them to the designated anchor points. A properly fitted full body harness and appropriate lanyard or self-retracting lifeline will reduce the potential for an operator being catapulted from the platform of a boom. The impact at the base of the machine can translate into a sudden and powerful whiplash at the platform — if this happens, **wearing the proper fall protection** may reduce the chances of serious injury or even death.

- 6 -

Only raise the platform on firm level surface. If the level alarm sounds, it means you need to move it to a level surface before elevating the platform. If you are already elevated when the alarm sounds, **immediately lower the platform** and move to a firm level area.

- 7 -

Never elevate the platform in close proximity to energized powerlines. Always refer to the manufacturers safety information on the machine and in the operators manual for **minimum safe clearance** information.

- 8 -

Do not sit, stand or climb on the platform guardrails. Operator should maintain a firm footing on the platform floor at all times. If an operator is required to reach an overhead work area that is too small for the platform guardrails to allow access to, determine if the selected aerial work platform is the right one for the job. Alternatively, the use of a **manufacturer-approved device**, specifically designed to provide additional access to confined spaces is recommended.

- 9 -

Do not exit an elevated boom or scissor lift platform unless you have been properly trained to do so, **maintain 100 percent tie-off** at all times and are in possession of an approval letter from the manufacturer that provides the proper guidance.

- 10 -

Do not climb down from the platform when it is raised. Whenever possible, keep a cell phone or two-way radio with you while you are in the platform and always **have a rescue plan in place** in the event that the secondary lowering system (i.e. emergency lowering system) system malfunctions.

Be sure to follow these simple, safe operating tips to keep your mobile elevating work platform performing productively day in and day out, from one application to another.



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- The Non-Debate on Parts -

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- SOME BEST PRACTICES -

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The work safe outlines a three-step approach to mitigate and control any manual handling risks, when operating heavy machinery. These include:

* **Identify** – This refers to identifying all associated hazards and risks with the manual handling of equipment.

* **Assess** – Referring to the checks required prior to operating the machinery and assessing any current and/or arising risks.

* **Decide** – After identifying and assessing any arising and/or potential risks, strategies and implement any appropriate control measures.

Tyre handlers perform a fairly straightforward task- that is, to handle large tyres, usually when tyres need to be repaired or replaced on large earthmoving equipment.

However, the design of a tyre handler is robust, complex and needs to be up to the highest standard, as this attachment may hold weights of over 3000 kilos and handle tyres over 3 meters long in diameter.

Tyre handlers are a specialised piece of equipment commonly used in the mining industry, to make handling tyres more efficient and much safer for operators. They can also be known as a Tyre Manipulator, Tyre Clamp or Tyre Grab.



Best Practices

Ensure your tyre handler is fit for purpose.

Define the load limit of your tyre handler.

Follow Original Equipment Manufacturer (OEM) guidelines. Establish regular inspections, including non-destructive tests of welded attachments.

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Furthermore, user-friendly controls can significantly improve the operator's experience and

productivity. Intuitive controls and ergonomic design reduce operator fatigue, enabling them to work efficiently for extended periods without compromising their comfort and safety.

Overall, when choosing an asphalt compactor, it is crucial to consider factors such as size and weight, compaction output, maneuverability, and ease of use. By carefully evaluating these factors, you can select a compactor that meets your specific project requirements and ensures optimal performance and efficiency.



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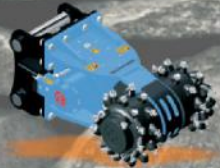


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Understanding Risk in an evolving insurance landscape

Advice for SA Engineering and Construction Companies

South Africa's socioeconomic and geographical landscape poses several unique risks to businesses in the engineering and construction sectors. These risks relate primarily to the nature of the work undertaken, the complexity of construction projects, labour force challenges and climate-related challenges. With sound risk mitigation strategies, complemented by adequate commercial insurance, excessive damages resulting from these types of risks can be minimised.

In the below release, Jan-Hendrik Botha, Head of Underwriting at Western National Insurance, provides his insight on the matter and says that engineering companies are tasked with fending off multi-directional threats. To mitigate these risks and protect their financial standing, engineering and construction companies need a comprehensive insurance portfolio that covers professional liability, property damage, bodily injury and other potential liabilities.

Botha is available for interviews if you wish to unpack these insights in more detail.

Understanding risk in an evolving insurance landscape: advice for SA engineering and construction companies

21 September 2023: South Africa's socioeconomic and geographical landscape poses several unique risks to businesses in the engineering and construction sectors. These risks relate primarily to the nature of the work undertaken, the complexity of construction projects, labour force challenges and climate-related challenges. With sound risk mitigation strategies, complemented by adequate commercial insurance, excessive damages resulting from these types of risks can be minimised. Offering his insight on this topic is Jan-Hendrik Botha, Head of Underwriting at Western National Insurance, who says that engineering companies are tasked with fending off multi-directional threats. As he explains: "Engineering and construction companies face a complex array of insurance risks that stem from their operating environment, which involves designing, managing and executing intricate projects.

To mitigate these risks and protect their financial standing, engineering and construction companies need a comprehensive insurance portfolio that covers professional liability, property damage, bodily injury and other potential liabilities. Collaborating closely with experienced insurance brokers can help tailor insurance solutions that address the specific risks inherent in these industries."

* The biggest risks facing the sector?

Two of the most immediate risks facing engineering and construction companies involve ongoing environmental shifts and unpredictable weather conditions. The torrential rain and flooding which occurred throughout KwaZulu Natal in 2022 is a prime example – recorded as the most catastrophic natural disaster to occur in the region, the floods had a major impact on sites under construction. Similarly, the disastrous flooding in parts of the Cape Winelands and Cape West Coast this year dealt a significant blow to the engineering and construction sectors.

And, as Botha explains: "*With the imminent risks we are facing, as a result of climate change, these weather-related hazards will remain one of the key concerns for businesses in the industry. From a geographical and geological standpoint, mitigating these risks should be a number one priority.*"

Engineering companies, which are often involved in construction projects, also face the risks that come with unforeseen delays due to onsite incidents, as well as design flaws, or supply chain disruptions.

Furthermore, engineering designs that fail to meet performance expectations or safety standards can lead to accidents, injuries and property damage.

Another key consideration, that these companies need to make, involves contractual obligations. When contracts do not fully cover the full spectrum of eventualities and are not formally agreed upon, this poses a significant risk to the parties involved and can disrupt business operations or result in long-term reputational damage.

"We also need to consider that times of economic downturn place everyone under undue strain. One of the knock-on effects of a turbulent economic climate, exacerbated by unfortunate realities such as unemployment, is a rise in theft. The theft of construction materials is a serious issue that costs contractors millions of rands every year. For this reason, measures to prevent theft and to protect valuable materials is an important consideration to make," says Botha.

*** Policies to consider.**

Some of the major engineering and construction-related prospects that Western National Insurance has seen over the past few years involves the building of domestic dwellings, infrastructure refurbishments and solar energy installations. For these types of projects, a tailored selection of risk-specific policies can make a tangible difference in providing companies with protection and peace of mind.

More specifically, Contractors' All Risks (CAR) policies play a large role in helping engineering and construction companies put the necessary insurance measures in place. CAR policies typically cover sudden and unforeseen physical loss or damage to the insured property which includes the permanent and temporary work and all materials intended to form part of the structure. This encompasses damage from various causes such as fire, explosion, natural disasters (like earthquakes and floods), theft, vandalism, and accidental impact.

CAR policies will also cover the cost of replacing stolen building materials. Although, as Botha advises, insurance needs to be employed in tandem with risk management strategies to mitigate the ripple effects caused by construction site theft.

The CAR policy also includes indemnity for damages for which the insured may become legally liable to pay following on accidental bodily injury to or illness of third parties (whether fatal or not) and/or accidental loss of or damage to tangible property belonging to third parties, occurring as a direct result of the contract work. For instance, if a construction-related incident leads to injury of a passerby or damage to neighbouring property, the CAR policy may cover sums which the insured may be legally liable for.

*** The value of good advice.**

Policies can be tailored to a specific project's needs and can have their own coverage limits, exclusions and deductibles. In this regard, as Botha explains, brokers can fill the gap, bringing much-needed expertise and market-related experience to the insurer-insured relationship.

As he concludes: *"Brokers play a crucial role in helping engineering and construction businesses safeguard their operations by providing expertise, guidance and tailored insurance solutions that address the unique risks and challenges faced by the industries. Company owners and decision-makers are therefore encouraged to work closely with their brokers who can help them navigate the complexities involved."*

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practices for operating a Telehandler

Since telehandlers also have the unique potential to extend those materials away from the vehicle with the telescoping boom, it is best practice for the machine operator to know that the material it's lifting, placing or carrying with pallet forks (or when using any attachment) is within the rated capability of the unit. Understanding the elements that go into the successful placement of a load are vital to effectively using a telehandler.



One of the resources you need to consult before using a telehandler is the machine's load capacity chart. Every telehandler is equipped with one for each of the different attachments it can support, such as a fork carriage, bucket or truss boom.

The load capacity chart highlights two key elements:

1) A telehandler's operating range and 2) it's operating envelope.

- * The operating range of the telehandler reflects minimum and maximum boom angles, as well as fully retracted and extended boom positions.
- * The operating envelope is located relative to the load center position of the attachment being used.

To effectively utilize the load capacity chart, you must initially determine some basic criteria:

- * The weight of the product or material being elevated
- * Desired height or reach that needs to be achieved
- * The model's load capabilities



Once equipped with this information, the load capacity chart will provide you with guidance that will allow you to confidently utilize your telehandler.



When using a telehandler to lift materials into place, what advice can be shared for the approach?

The two of the most important aspects of telehandler operation, especially when preparing to lift material into place, it is important to know 1) how much weight needs to be lifted and 2) how high the load needs to be lifted. Like larger models, compact telehandlers are generally categorized by maximum lift capacity and/or maximum lift height, and the equipment is rented (or sold) based on these key attributes. But contractors can't assume a higher lift capacity means

the unit has a greater maximum lift height. Some models will be designed to lift heavier loads at lower heights.

What should operators be aware of when operating a telehandler?

Before using a telehandler, it is also important for operators to walk the job site to be aware of their surroundings before operating the equipment. For example, operators should know what and where obstacles and/or potential hazards are. And, they should check on these obstacles regularly as job site conditions change frequently. Also, operators should investigate their route before operating a telehandler to see what the ground conditions are, where any power lines are located and where people may be, as well as what other equipment may be in the machine's travel path.



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Underground Mines



Mining, as a global industry, is being pushed constantly into more remote and challenging environments.

This creates a need for innovative and adaptable methods of ventilation and preventing cooling hazards or the safety of mine workers.

1. Temperature in the Mine

Temperature levels in underground mines can be extreme. It ranges from extremity-numbing cold to such heat that dehydration can be caused in a matter of minutes by profuse sweating. Mines in Mongolia have to battle temperatures of -40 degrees Celsius while mines in Western Australia often reach into the 50s. The deeper we're required to go for coal, shale and other valuable assets, the more difficult it becomes to manage safe heating and cooling of the mine shafts and work areas. It's not just humans that are negatively affected by becoming sluggish in extreme heat or cold. Machinery can overheat, freeze up, or stop working altogether in such harsh environments.



As previously stated "to ensure the safety of the miners, the highest quality of cooling equipment needs to be installed. This will allow mines to operate efficiently and at the highest possible standard". Even the mine's support structure itself can become compromised in these conditions leading to warping and every miner's nightmare, collapse.

2. Heating and Cooling

A mining operation must design and maintain a ventilation system that can provide a constant clean air supply to all the work areas. Indeed, this is to counter the harsh conditions miner's deal with on a daily basis. Modern mines are going deeper and are intricately more complex than their predecessors. In addition, system maintenance usually requires a break in production, tempting team leaders to ignore or continually put it off. System overhauls are time consuming as well as expensive, again leading to temptation to push the luck, so to speak. Forgotten, in the push for productivity, is the fact that if the workers aren't getting a fresh air supply and temperatures kept at workable levels, production will stop for a much longer period of time, due to sluggishness, sickness and possible death.

3. Methane and other Fugitive Gases

When deep underground, one of the biggest hazards besides not getting enough oxygen, is build-up of methane and other gases. Too much, without proper ventilation, leads to explosions and obviously, fatalities. Gas build-up must be monitored closely at all times with evacuation and shut down of the mine until the levels subside.

4. Diesel Particulate Matter

Diesel particulate matter, or DPM is a growing concern industry wide. It follows after World Health Organisation's June 2012 classification of DPM as a Group 1 Carcinogen. Much of the machinery used in mines is fuelled by diesel. Although diesel will burn, it has a higher flash point and doesn't explode like other



liquid fuels. However, once on fire, it can burn with fierce intensity. It's the particulates in the exhaust that are the most dangerous. In fact, it leads to lung cancer and also associated with an increase in bladder cancer among miners.



Solutions

Innovative engineering for designing and maintaining ventilation systems is a must in today's deep complex mines. The maintenance team and the mining crews need to communicate and work together. Making sure to run the ventilation system in the proper areas of the mine requires meetings. Also, updates as to movements below ground. In other words, everyone has to be in the same shaft. Ventilation-on-demand devices are extremely useful tools in mines of all sizes as are readily available emergency breathing apparatuses.



5. Poorly Trained or Untrained Employees

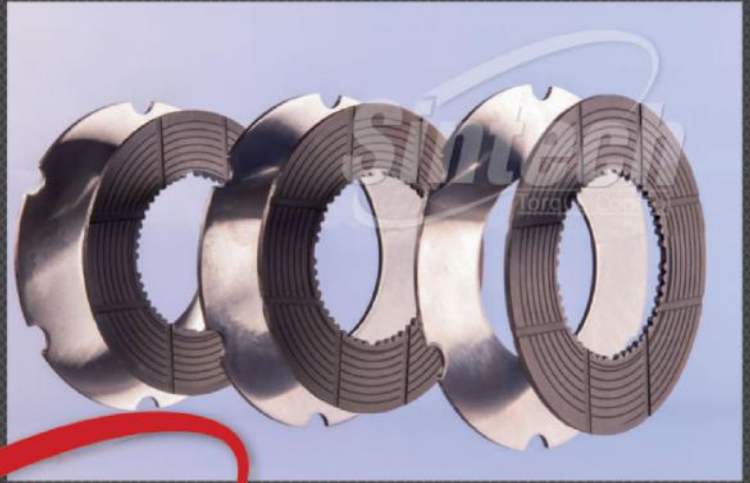
One of the biggest hazards to any mining operation is humans. People make mistakes and poorly trained or untrained employees make more mistakes. It often happens with the high cost of lost productivity or worse, loss of life. Yet, many mining operators, in an effort to keep productivity high, continues to *practice bad decisions*. *They will add to their labour force without doing due diligence or providing thorough training. In the long run, this is a shortsighted method of doing business.*





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The excavator is a kind of high-efficiency and most widely used construction machinery in modern society, and has become the one with the highest market share in the construction machinery family.

Excavator bucket teeth play an important role as a medium directly in contact with the ground, it belong to wearing parts, need to be replaced regularly, and proper installation will ensure the maximum digging performance of your earth moving machinery. So today we mainly share how to replace **backhoe bucket tooth**.



Before starting to replace, please choose different bucket tooth according to the construction site, and the three common types of excavator bucket tips are:

Dirt Bucket Teeth: used in sand and soil terrain to excavate soil, sand, and gravel

* **Excavator Rock Teeth:** used for ore, quarry, for ore loading after blasting, etc., good wear-resistant, better digging performance and more economical.

* **Tiger Teeth for backhoe bucket:** which provide acceptable penetration and are used for excavating compacted soils and frozen soil

Safety First!

Prepare a safe work environment by properly wearing protective gear such as goggles, hard hats and gloves to minimize the risk of any injury.

For your own safety, keep the machine off, remove the key and keep it away from the machine when installing the bucket teeth. This is just to make sure no one starts the machine while you are working.

Preparing for installation

When ready to install, position the bucket so that its teeth are parallel to the ground. Buckets can also be effectively supported with aids such as wooden blocks or jack stands.





Step Five

Hammer the bucket teeth pin until it was flushed with the end of the tooth.

Step Six

The installation is complete.

how to change excavator bucket teeth

By following these steps, you will successfully install your bucket teeth. But not all bucket teeth have the same type of tooth retainer that holds them in place. Some have vertical pins, others have horizontal pins, and some don't use pins at all. So there suggest you read your owner's manual and check your manufacturer's recommended disassembly method before starting work.

This will also help prevent any potential crush accidents.

Once you are confident that you are ready to start safely, follow the six steps to install your backhoe bucket tooth.

Step One

Use the removal tool to remove existing teeth.

Step Two

Remove the tooth and remove excess dirt or grime from bucket adapter, prepare it for the new bucket tips.

Step Three

Install on each new tooth and align them with the hole through the adapter.

Step Four

Insert lock pin through bucket tooth and adapter, or fasten it through the hole, ensure the pins are fully inserted.



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Personal Protective Equipment (PPE)

Safety 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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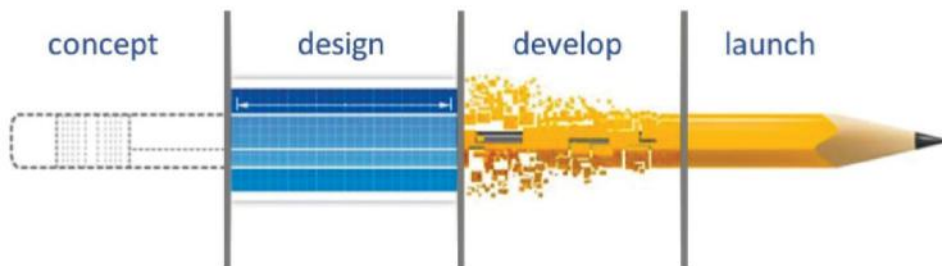
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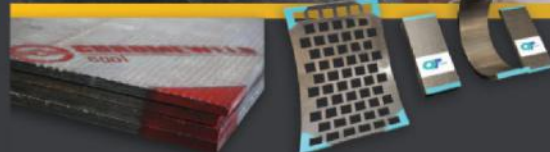


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