

EQUIPMENT SELECTION



What

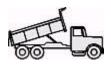
Selecting equipment based on its energy consumption, noise output, exhaust configuration, compatibility with other equipment on site, and compatibility with approved mine plan.

Purpose

To reduce energy consumption, noise and dust emissions, and the costs of replacement parts for each piece of equipment purchased.



OR



Where YES: All fixed and mobile plants.

Materials Equipment

⊶ N/A

☆ N/A

& Costs

\$ Varies. Equipment with noise and dust control options may increase costs.

Plans & Spec's

- Consider drive-by noise.
- Consider upswept exhaust. Exhaust directed to the ground can create dust.
- Can the direction of the exhaust be rotated so that during peak outputs, such as power lifting from a stockpile, the noise of the exhaust is directed away from a neighbour?
- Is the equipment designed for ease of capture and proper disposal of used fluids and waste materials such as oils, coolants, filters, batteries and tires?
- Select equipment that produces low levels of emissions. Some advanced engines are able to produce greater torque at lower revolutions per minute (RPMs) than conventional engines, while creating fewer emissions.
- Where applicable, use biodegradable hydraulic fluids. These products are comparable to conventional oils in price, use the same seals and filters, are nontoxic, and can mix with mineral oil to allow for changes in the field.
- Does the equipment come with its own spill kit?
- Does the loader capacity match truck capacity?
- Does the loader (crusher, wash plant, etc.) have the necessary capacity to meet production goals within the hours of operation allowed by the local government?

- Does the wash plant recover all saleable material in order to reduce sediment going to the settling pond?
- Does an excavator provide greater reach to permit higher benches?
- Would larger trucks result in fewer trips to reduce traffic impacts?
- Would smaller trucks result in less noise, dust and vibration generation?

Maintenance

Establish a regular maintenance schedule according to manufacturer's guidelines.