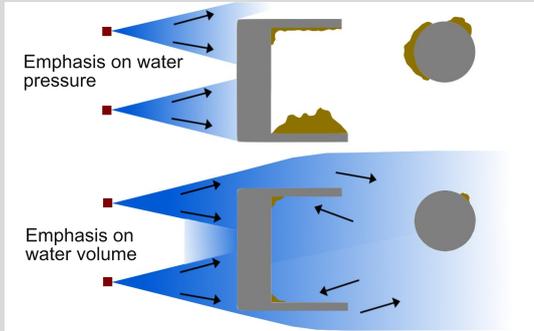


8 Keys To A Winning Touchless Heavy Vehicle Wash System

Many industries stand to benefit from well executed wash systems, the most versatile of which are touchless drive through systems - they'll wash almost any vehicle really fast - but you gotta do it right. Here are **eight critical points** you need to consider that will make sure you get the most from automated heavy vehicle washing:



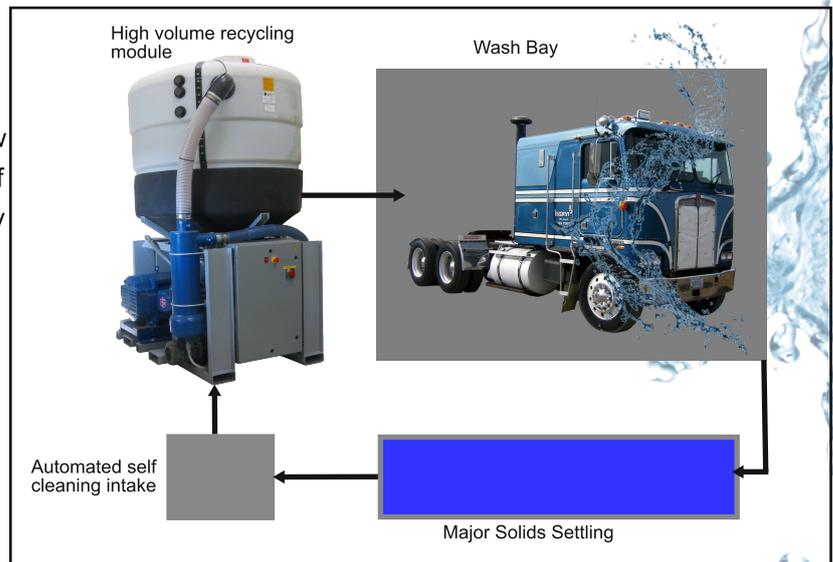
1. Water volume:

There is a misconception that washing vehicles is all about pressure - but that's not the whole story. The cross section of a vehicle chassis on the left shows why. High pressure applications do a good job of washing the first surface they hit. However, after this surface, there is no force left in the water and the second and third surfaces aren't cleaned properly. In a high *volume* system, the volume carries the lower water pressure much further, cleaning the second and third surfaces that are hit. Make sure

you have enough water delivery volume for the type of vehicles you'll be washing.

2. Big water = big recycling:

Water recycling systems are a dime a dozen these days. It seems like everyone has a new solution. But the high volume requirements of a proper heavy vehicle wash mean that many water recycling units can't keep up. The unique sludge, grit and volume coming off a good vehicle wash mean a purpose built recycling system is needed. Avoid systems that need replaceable filters as you will be changing them a lot.



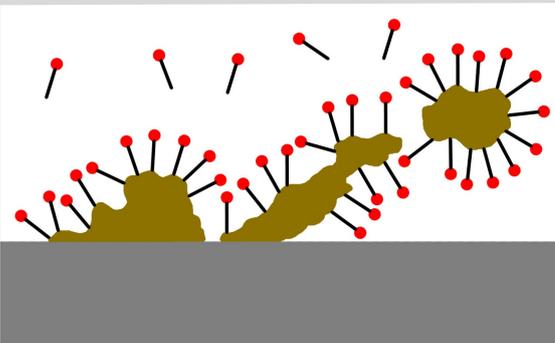
3. Hitting power:

Now that we have enough water volume, we need to talk about hitting power. Hitting power means that we are getting enough force onto the dirty surfaces of the vehicle so that the grime is shifted. If not designed specifically, water jets simply create a spray or mist - this is called atomisation. For effective vehicle washing we want to avoid atomisation at all costs. What we need are solid bolts of water, something that is easier said than done. Specially designed nozzles that suit the application will minimize atomisation and ensure the water is delivered in a uniform way to shift the muck.

4. Reliability - robust sensors, robust controls:

If you're like most heavy transport operators, you've got a lot of work to do and no time for breakdowns. Having enough water hitting your vehicle is one thing. Making it happen day after day is another. Ensure that your system uses appropriate sensors, industrial control hardware and is physically well-built, galv dipped if possible. Reaping the enormous benefits offered by a touchless wash system means doing it right and doing it once. This isn't an investment for fly-by-nighters but is for long term visionary business people.





5. The right chemicals for the right job:

The grease and grime that accumulates on heavy vehicles is unique, so it requires uniquely designed chemicals to lift it. All heavy vehicle wash chemicals are not created the same. If you're going to realize the huge benefits of a heavy vehicle wash system, you need to make sure that the catalyst - wash chemicals - are correct. Get specialist advice for the kind of grime you face.

6. Efficiency:

Its easy to build a system that takes heaps of electricity for pumps etc but doesn't throw it the right way to get maximum effect. In the same way, it is easy to build a system that needs a lot of top up water due to evaporation, track out and drainage losses. Ensure you don't allow this kind of wastage to enter your system by designing it right from the beginning with evaporation, track out and gravity assisted drainage in mind.

- Shelter your washbay from the wind
- Use properly designed nozzles for water delivery
- Design your washbay so it will easily drain by gravity

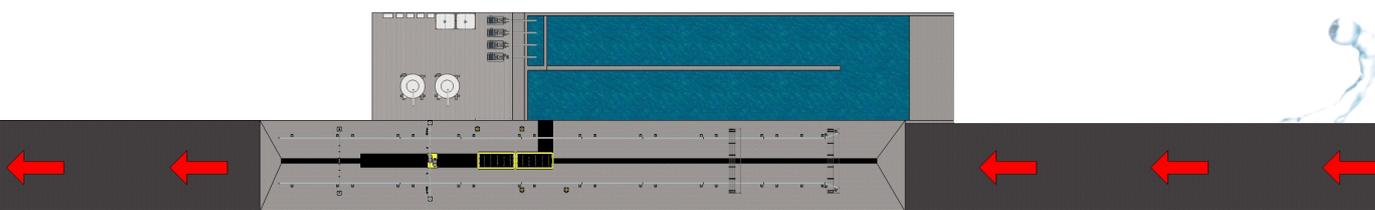
7. Simplicity:

When something is designed well, people say things like; "thats not so difficult, I could build that". Ensure that your wash system is simple by design. Complicated systems, high pressure pumps and unnecessary moving parts all truncate the awesome value that a heavy vehicle wash system offers.



8. Space

Having the space to make a heavy vehicle wash work is critical. Too often, people try to cram everything into a small space and things end up being unnecessarily difficult. Ensure your vehicles have turning space to line up straight with a wash system. Ensure there is enough dwell time between chemical application and the jets/brushes so that the grime is moved effectively.



Conclusion:

You've built your business through hard work and smart decisions - you could build a truckwash yourself. However, a well built heavy vehicle wash system looks simple but takes experience to do it right. Many have tried putting together a wash system using a medley of contractors and parts suppliers but they always end up paying more than they should or, worse still, ending up with an inferior product. If you want it done once and done right then give Tranzwash International a call. Otherwise, thanks for reading and good luck.