AMMANN ARR1575 Safety and Risk Assessment

The instructions recommended within this document apply to normal risk conditions. If the Trench Roller is to be operated in a dangerous or hostile environment, the user/client is responsible for conducting an appropriate risk analysis and applying suitable controls to mitigate those additional risks. This instruction should be read in conjunction with the Risk Assessment. Always read the manufacturer's operating manual.

GENERAL SAFETY

- **This roller can only be operated if it is a safe and sound operating condition and by a competent operator.**
- **Work sites on roads must be separated from normal traffic flow**
- **Roller activity must remain in a barricaded area at all times unless traffic flow is stopped to allow access in or out of the work area.**
- **Do not operate on excessive slopes**
- **DO NOT STAND BETWEEN THE ROLLER AND ANY WALL OR OTHER OSTRUCTION**
- **DO NOT STAND ON THE DOWNHILL SIDE OF THE ROLLER**
- **Wear appropriate PPE (safety footwear and Hi-Vis jacket)**

TRANSPORT OF TRENCH ROLLER

- **Ensure truck or trailer has suitable ramps for safe loading**
- **Minimise any slope by parking the truck or trailer facing truck downhill**
- **Drive roller slowly when loading or unloading**
- **Retrain roller from movement using tie down chains and chocks**

OPERATING CONDITIONS

- **Check fuel and oil levels**
- **Use ignition key to start and KNOW WHERE EMERGENCY STOP SWITCH**
- **Check the operation of the remote control before using the machine and be familiar with forward and reverse**
- **Look in the direction you are travelling and watch out for other people and obey traffic rules and signs**
- **Use care when working near other machinery**
- **DRIVE UP AND DOWN INCLINES AND NEVER ACROSS. NEVER TURN MACHINES ON A SLOPE**
- **Exercise care when manoeuvring on sloping ground**
- **Be aware of wet, soft or loose edges and don't operate close to open or uncompacted trenches or other excavations.**

PARKING

- **Park where there will be no obstruction to vehicles, site personnel or access ways**
- **Do not impede road traffic and post reflective warning signs**
- **NEVER LEAVE MACHINE UNATTENDED WHILE RUNNING AND SHUT DOWN BEFORE LEAVING**

REFUELLING

- **Refuelling to be carried out in a hazardous free atmosphere devoid of flammable or explosive substances**
- **Make sure the area is well ventilated and a safe distance from any combustible materials**
- **Make sure the area is free from heat sources, ignition sources, open pits and drains**

INSPECTION AND MAINTENANCE

- **Roller is to be inspected and maintained regular in accordance with manufacturer instructions**
- **Operator to carry out daily inspections of fuel, oil and radiator**
- **Carry out service and maintenance**

The above instructions must be followed at all times If any of the instructions are not possible, contact the site supervisor for an assessment of any safety requirements.

Likely Risk Issue	**Who/ What may be harmed?** (Specific Persons)	**What is the Rate Level?** (Rate risk as Low, Medium or High)	**What Risk Control Actions Needs to Be Taken?** (What needs to be considered so that the risks are identified and effectively controlled)	**Time Frame**
Rollover of Machine	Operators Staff Spectators	Severity of Risk (S)- 3 Likelihood of Risk (L)- 2 Overall Risk (S x L)= 6 **MEDIUM**	• Operator to be verified as competent and must assess conditions • Operator to stand well clear of machine, preferable to stand at end with safety bar • No other person to be near the machine when operating • Machine not to be used on steep slopes (Refer Manufacturers Specifications)	Every hire
Machine Bogged	Staff General public	Severity of Risk (S)-3 Likelihood of Risk (L)- 2 Overall Risk (S x L)= 6 **MEDIUM**	• Arrange for additional manpower or suitable lifting gear or crane • Avoid manual handling	Every hire
Leaking Fuel Causing Fire or Slip	Operators Staff Spectators	Severity of Risk (S)-3 Likelihood of Risk (L)- 1 Overall Risk (S x L)= 3 **LOW**	• Operator to check machine daily for any leaks • Check ground for evidence of fuel leaks	Every hire
Noise	Operators Staff Spectators	Severity of Risk (S)- 3 Likelihood of Risk (L)- 3 Overall Risk (S x L)= 9 **HIGH**	• Operator checks to wear suitable ear protection equipment • Nearby persons to also wear ear protection	Every hire
Fire	Operators Spectators Staff	Severity of Risk (S)- 3 Likelihood of Risk (L)- 1 Overall Risk (S x L)= 3 **LOW**	• Daily checks for fuel leaks or faulty fuel cap • Machine to be turned off when refueling	Every hire
Collison	Operators Staff Spectators	Severity of Risk (S)- 3 Likelihood of Risk (L)- 1 Overall Risk (S x L)= 3 **LOW**	• Beacon and reverse alarm to be checked daily • Ensure handbrake is in working order and is applied when machine is stopped	Every hire
Burns	Operators Staff Spectators	Severity of Risk (S)- 3 Likelihood of Risk (L)- 2 Overall Risk (S x L)= 6 **MEDIUM**	• Oil or fuel not to be added while engine is hot • Wear gloves if engine parts need to be touched • Engine oil and fuel levels not to be checked until engine has cooled down	Every hire

Calculation of Risk Evaluation
Severity of Risk (S) is judged by evaluating the effects of the hazard if the risk occurs. This is evaluated as Minor = 1, Major = 2, Serious = 3
Risk Likelihood (L) - The likelihood of the harm occurring is evaluated on the basis of: Unlikely =1, Possible = 2, Likely = 3
Overall Risk is calculated by multiplying the figure for Severity (S) and Likelihood (L).
The overall risk figure calculated is related to the Risk Level of either Low: 1 to 3; Medium: 4 to 6 or High: 7 to 9