



Rail Suction Excavation System (RSES)

RAIL BASED SOLUTION

Force One Ltd have designed, developed and built a dedicated rail based high power suction system for utilisation on various rail related works. The system incorporates a 4-fan suction system, this is currently the most powerful unit of its type in the UK.



-  Continuous Working
-  Various Configurations
-  Complete on track package
-  Flexible off-load options

PLANT SPECIFICATION

Length	27000MM
Width	Travel within standard guage
Height	3639MM

FLEXIBLE USE

- Re-ballasting (plain line & S&C)
- UTX
- Drainage works
- Sensitive excavations where services may be present.
- Level crossings
- Trial holes

ON & OFF TRACKING

Our 24T telehandler can efficiently lift all equipment components on track, allowing for easy on and off tracking. The system can be on-tracked and ready to operate in just 25 minutes. Additionally, all equipment is delivered to the site via Force One's road haulage fleet.



NWR PA Certificate | RISQS | POS Licence | Primary Sponsored Staff

EXCAVATION

This one-of-a-kind road rail machine provides the operator with two options: control from the cab or remote control for better visibility in and around the excavation site. This unique machine features a rotating nozzle system, tilt rotator, and specially designed teeth/rake to ensure efficient removal of all material under the sleepers.



MATERIAL MODULE

Our ballast box is designed to maximize material capacity while ensuring excellent airflow. It can be easily secured onto a 7m/40T rail trailer with ISO locks, allowing for quick setup and breakdown. The lid can be removed by releasing the clamps and lifted using on-site machines or RRV's like a telehandler.

There are two options for emptying the box. The use of a road-based suction excavator allowing for a dust-free extraction or alternatively, a traditional machine or RRV with a small clamshell can be utilised.





CONVEYOR

The purpose of this module allows continuous working (excavating) whilst discharging simultaneously the collected material, thus eliminating the requirement for tipping of excavated/collected material and any subsequent rehandling and clearing operations.



SUCTION MODULE

This four-fan system, custom-designed and constructed in Germany, boasts unparalleled strength within the UK market. Its full acceptance by Network Rail allows Force One to offer this system to the UK rail industry.

- 4 fan high power suction system
- Built in air compressor system
- Filtration system to ensure no dust whilst excavating
- Remote controlled
- Easily on and off tracked using the telehandler and ISO locks



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