



On-Track Plant Engineering Conformance Certificate

In accordance with RIS-1530-PLT – Issue 7.1

Certificate no.: 71/1145/25

Report no.: TRUK/B 25/010, (Issue 1, 23/01/2025). This report is an integral part of this Certificate.

Name of Plant Assessment Body	TÜV Rheinland UK Limited 5 Mallard Way Pride Park Derby DE24 8GX United Kingdom	Organisation Code:	71 (a UKAS accredited certification body No. 8400)
Vehicle Class / Description	940/Colmar/T10000FS/9B		
Vehicle Asset Manager	Story Plant Ltd		
Issue Date	28-02-2025		
Expiry Date (if any)	28-02-2032		
Vehicle Number(s)	ZZ709 940814-5		
First in Class:	No		
Certificate No. of First in Class:	ZZ709 940856-6 on ECC 71/1078/25, against RIS-1530-PLT Issue 7.1.		
Authorised by:	Official Stamp of TRUK, CAB Rail		

ESig: NDC/TUV/25/0255

Certifier / Signatory Name Neil Charles Senior Engineer



Reason for Issue and Scope of Work

Previous Certificate:

Modification to GKD SpaceGuard System to remove virtual wall functionality. System now only provides angular slew limit functionality.

Increase on/off tracking cant to 150mm

This Certificate:

Change of Owner and Fleet number.

Certification of upgraded Colmar T10,000FS Excavator.

Serial No. 8702

Fleet No. RRVW1376

Assessed for compliance with RIS-1530-PLT, Issue 7.1.

Deviations associated with this Certificate (if none state "NONE")

NONE

Previous Certificate No.

(if none state "NONE"): NS/0151/17

Maintenance Instruction Details

Maintenance Instruction Title: Colmar T10,000FS Use and Maintenance Instruction Manual.

Maintenance Instruction Number: M-T10000FS-02-1

Issue No.: 4

Date: 28/12/2024



Limitations of Use (these words are mandatory where applicable)

1. The RRV shall only operate inside a possession.
2. When travelling, the RRV is within W6a gauge as defined in RIS-1530-PLT.
3. When working the RRV may be out of W6a gauge.
Minimum underside height of tail swing above rail is 1385mm.
Maximum tail swing gauge exceedance with counterweight retracted is 390mm, (1080mm from the running edge of the rail).
Maximum tail swing gauge exceedance with counterweight extended is 1230mm, (1920mm from the running edge of the rail).
Rubber road tyres can encroach area reserved for infrastructure by: 90mm vertically and 170mm laterally above rail level.
A site survey shall be undertaken to assess potential damage to the infrastructure equipment prior to use.
4. The RRV shall NOT on/off track, travel or work on live conductor-rail lines.
5. The RRV shall NOT on/off track, travel or work under live OLE, unless the SpaceGuard RCI system is active, the Height Limit correctly set and the system functionality has been proven correct prior to vehicle use.
The use of the RRV under live OLE shall only be in accordance with the safe system of work for the possession, determined and approved by taking guidance from the requirements of GE/RT8000 HB16, and account taken of:
 - A maximum SpaceGuard default height of the boom above the rail of 3.500m.
 - A minimum OLE wire height of 4.165m.
 - The earth bonds on the RRV shall have been examined for security and presence, prior to use.
 - Attachments and their loads shall not exceed the height of the top of the boom.
6. The RRV shall only work under live OLE with the dipper extension (Rhino Horn) fitted when Spaceguard RCI system active, the Height Limit correctly set and the system functionality has been proven correct prior to vehicle use.
7. Except for the cab, when the RRV is under live OLE, access is NOT permitted onto any surfaces higher than 1.4m above rail.
8. The RRV shall NOT on/off track if the adjacent line or lines are open to traffic.
9. The RRV shall only be permitted to work ALO with the SpaceGuard RCI system active, the Slew Limit and/or Virtual Wall correctly set and the system functionality has been proven correct prior to use.
ALO working shall only be in accordance with the safe system of work for the possession, taking account of the extra gauge exceedance caused by attachments.
10. When fitted with a Rhino Horn, ALO working shall only be permitted with slew angle limitation.
 - 'Virtual wall' Functionality shall not be used, only angular slew limits shall be used to set lateral limits.
 - When setting angular limits, it shall be assumed that the boom, dipper and extension are at maximum radius, regardless of the actual planned radius of work.
11. For access/egress, the RRV shall only operate with the door to the cab adjacent to a cess or a line closed to all train movements, or a safe system of work takes account of adequate clearances to adjacent lines.
12. The RRV shall NOT travel on track with:
 - Cants greater than 200mm.
 - Gradients greater than 1:25 and/or;
 - Curves less than 80m.
13. The RRV shall NOT work on track with:
 - Cants greater than 150mm.
 - Gradients greater than 1:25 and/or;
 - Curves less than 80m
14. When reversing, the RRV shall only proceed at walking speed with the driver utilising the CCTV, until the superstructure/boom can be slewed to face the direction of travel.
15. For on/off tracking, a site specific work plan shall be used taking account of the requirements in Network Rail Infrastructure Plant Manual NR/L2/RMVP/0200.
16. The RRV shall NOT be on/off tracked on:
 - Cants greater than 150mm and/or;
 - Gradients greater than 1:25.
 - Counterweight shall be fully retracted. There shall be no auxiliary equipment attached to the dipper.
17. The RCI shall be switched on at all times, unless in digging mode.
18. The RCI has a tandem lifting mode.
19. The RRV is permitted to tow and/or propel rail trailers with both air service and park braking systems coupled.
Maximum braked towed/propelled weight is 80 tonnes (chassis towing point), 25 tonnes (axle towing point) 4 trailers shall not be exceeded at any towing point.
Air supply pressure for the service brake application is 0-8bar and park brake release is maximum 8bar.
NOTE: The maximum towed and/or propelled weight may have to be reduced where the railhead conditions for adhesion and/or running gradient may affect the safe traction performance of the RRV.

Supplementary Information - (Optional – minimum requirements where applicable)

1. The RRV is a OEM Colmar T10,000FS RRV with 4.077m boom, 2.1m dipper and optional 3.15m rhino horn.
2. Manufacturer Serial No. 8702 Fleet No. RRVW1376
3. The RRV is approved to carry 2 persons seated in the driver's cab.
4. The RRV operates on rail in high-mode only.
5. CCTV camera fitted to the side and rear.
6. Gross Vehicle weight: 31,220kg
7. Fitted with rail wheel braking system.
8. Maximum permitted speeds on rail not to exceed:

<ul style="list-style-type: none"> • 20mph Plain line (Travelling); • 5mph Plain line (Working) • 5mph emergency recovery. 	<ul style="list-style-type: none"> • 5mph towing/propelling; • 5mph switches and crossings; • 5mph raised check/guard rails
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9. Where an attachment is known to have a significant adverse effect on the RRV stability, the RCI shall always be in 'Lift Mode' when using the attachment.
10. RCI information;
Fitted with GKD SpaceGuard RCI system that has been approved by Network Rail Technical Services.
 - Model: GKD 3RCI Touch Screen;
 - Software: V9.66
 - Serial No. 2508TM
 - Duty chart references: Colmar T10,000FS, Serial 8702, Date 27-Feb-2025.
 - The RRV has Normal and Tandem Lifting Modes.

11. Dipper Extension (Rhino Horn):
The RRV may be used with the dipper extension (Rhino Horn) in accordance with a safe system of work.
Functional test of SpaceGuard RCI system shall be undertaken prior to work on Network Rail Infrastructure.