ON-TRACK PLANT

ENGINEERING CONFORMANCE CERTIFICATE

This certificate is issued in accordance with RIS-1710-PLT Issue 2.1

NAME OF CERTIFICATION BODY	ACCREDITATION CODE
AEGIS Certification Services Ltd	**AC**

Machine Class/Description	Rail Products UK Rail Trailer ATR450 (Type 0D)
Machine Owner	Krause & Hall Ltd
Issue Date	1st August 2023
Expiry Date	31st July 2030

Machine Number: **99709 009452-2**

First of Class	No
Certificate Number of First of Class	AC/0102/23

Authorised by: AC/S-MAR-733

UKAS PRODUCT CERTIFICATION 10221

Official Stamp

Mark Franik
AEGIS PAB Signatory

Reason for Issue and Scope of Work

Previous Certificate:
New machine, no previous certification

This certificate:
New build to RIS-1530-PLT Issue 6.

Deviations Associated with this Certificate

Tracker Number	Tracker 29025
Description	Derogation against clause 5.3.1 c) – Use of 50 metre curve during calculations

Previous Certificate Number: First certification

Approved User Documentation

ID No.	Title	Issue No.	Date
ATR450	Operating and Maintenance Instruction Handbook ATR450	2.2	01/03/2023

Machine Data

Gauge	Plant	**Gross Mass**	520.9 kg
Tare mass	70.9 kg		

Approved Values

Maximum number of people	0 (Zero)	**Payload**	450 kg

Approved Track Conditions

	Travelling Mode	On/off-tracking
Maximum gradient	1:25	1:25
Maximum cant	200 mm	150 mm
Minimum curve radius	80 m	

Use in Electrified Areas

		Travelling Mode	On/off-tracking
Overhead Line Equipment	**Live**	Yes	Yes
	Isolated	Yes	Yes
3rd / 4th Rail	**Live**	No	No
	Isolated	Yes	Yes

Approved Maximum Speeds

	Travelling Mode
Plain Line	2.5 mph

Switches and Crossings	2.5 mph
Raised check and guard rails	2.5 mph

Limitations of Use

1. The trailer is not permitted outside of a possession.
2. Exceeds plant gauge.
3. Not to be used ALO on LU.
4. The trailer shall not be used on track conditions in excess of those given in the Approved Track Conditions section of this ECC.
5. The trailer cannot be relied upon to activate train operated points.
6. The trailer shall only on/off-track unladen.
7. The maximum number of people to be transported on the trailer shall not exceed the value given in the Machine Data section of this ECC.
8. The maximum payload shown in the Machine Data section of this ECC shall not be exceeded.
9. The trailer shall not exceed any speeds given in the Approved Maximum Speeds section of this ECC.
10. The trailer shall only be coupled to a Rail Products UK Manitou ART 17T(H) MEWP.
11. The trailer is suitable for on/off-tracking and traveling under live OLE when used in conjunction with a safe system of work.
12. The trailer shall not travel on live conductor rail lines.

Supplementary Information

1. The trailer's first approval for seven years was assessed against RIS-1530-PLT issue 6.
2. The trailer is a Rail Products UK road rail conversion.
3. The trailer is exempt from the requirements to have brakes fitted.

Serial Number	44131
Fleet Number	TR02

ON-TRACK PLANT

ENGINEERING CONFORMANCE CERTIFICATE

This certificate is issued in accordance with RIS-1710-PLT Issue 2.1

NAME OF CERTIFICATION BODY	ACCREDITATION CODE
AEGIS Certification Services Ltd	**AC**

Machine Class/Description	Rail Products UK Rail Trailer ATR450 (Type 0D)
Machine Owner	Krause & Hall Ltd
Issue Date	1st August 2023
Expiry Date	31st July 2030

Machine Number: **99709 009451-4**

First of Class	No
Certificate Number of First of Class	AC/0102/23

Authorised by:



Mark Franik
AEGIS PAB Signatory

UKAS PRODUCT CERTIFICATION
10221

Official Stamp

AEGIS Certification Services

Reason for Issue and Scope of Work

Previous Certificate:
New machine, no previous certification

This certificate:
New build to RIS-1530-PLT Issue 6.

Deviations Associated with this Certificate

Tracker Number	Tracker 29025
Description	Derogation against clause 5.3.1 c) – Use of 50 metre curve during calculations

Previous Certificate Number: First certification

Approved User Documentation

ID No.	Title	Issue No.	Date
ATR450	Operating and Maintenance Instruction Handbook ATR450	2.2	01/03/2023

Machine Data

Gauge	Plant	**Gross Mass**	520.9 kg
Tare mass	70.9 kg		

Approved Values

Maximum number of people	0 (Zero)	**Payload**	450 kg

Approved Track Conditions

	Travelling Mode	On/off-tracking
Maximum gradient	1:25	1:25
Maximum cant	200 mm	150 mm
Minimum curve radius	80 m	

Use in Electrified Areas

		Travelling Mode	On/off-tracking
Overhead Line Equipment	**Live**	Yes	Yes
	Isolated	Yes	Yes
3rd / 4th Rail	**Live**	No	No
	Isolated	Yes	Yes

Approved Maximum Speeds

	Travelling Mode
Plain Line	2.5 mph
Switches and Crossings	2.5 mph

Raised check and guard rails	2.5 mph

Limitations of Use

1. The trailer is not permitted outside of a possession.
2. Exceeds plant gauge.
3. Not to be used ALO on LU.
4. The trailer shall not be used on track conditions in excess of those given in the Approved Track Conditions section of this ECC.
5. The trailer cannot be relied upon to activate train operated points.
6. The trailer shall only on/off-track unladen.
7. The maximum number of people to be transported on the trailer shall not exceed the value given in the Machine Data section of this ECC.
8. The maximum payload shown in the Machine Data section of this ECC shall not be exceeded.
9. The trailer shall not exceed any speeds given in the Approved Maximum Speeds section of this ECC.
10. The trailer shall only be coupled to a Rail Products UK Manitou ART 17T(H) MEWP.
11. The trailer is suitable for On/off-tracking and traveling under live OLE when used in conjunction with a safe system of work.
12. The trailer shall not travel on live conductor rail lines.

Supplementary Information

1. The trailer's first approval for seven years was assessed against RIS-1530-PLT issue 6.
2. The trailer is a Rail Products UK road rail conversion.
3. The trailer is exempt from the requirements to have brakes fitted.

Serial Number	44130
Fleet Number	TR01

On-Track Plant Engineering Conformance Certificate

In accordance with RIS-1530-PLT – Issue 7.2
Certificate no.: 71/1426/25
Report no.: TRUK/B 24/160, (Issue 1, 15/10/2024). 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	912/Manitou/RR AP ART17TH/9A
Vehicle Asset Manager	Krause & Hall Ltd
Issue Date	03-10-2025
Expiry Date (if any)	03-10-2032
Vehicle Number(s)	ZZ709 912385-0
First in Class:	No
Certificate No. of First in Class:	ZZ709 912305-8 on ECC 71/1485/24, against RIS-1530-PLT Issue 7.1.

Authorised by: **Official Stamp of TRUK, CAB Rail**

e.Sig: NDC/TUV/25/0915

TÜVRheinland® Conformity Assessment Body Rail
TÜV Rheinland UK Limited

Certifier / Signatory Name **Neil Charles Principal Engineer**

Reason for Issue and Scope of Work
Previous Certificate:
Certification of a new Road Rail MEWP Vehicle.

This Certificate:
Certification of upgraded Manitou ART17TH MEWP.

Manufacturer Serial No.: 43127 Fleet No.: 104

Assessed for compliance with RIS-1530-PLT, Issue 7.2.

Deviations associated with this Certificate (if none state "NONE")
Tracker No. 29075
Description Derogation against Clause 5.3.1c) – Use 50 metre curve during calculations.

Previous Certificate No.
(if none state "NONE"): AC/0003/18

Maintenance Instruction Details
Maintenance Instruction Title: Fitzgerald Plant Services ART17 RRV MEWP Operation & Maintenance Manual
Maintenance Instruction Number: FPM0068 **Issue No.:** 2 **Date:** 04/10/2024

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On-Track Plant Engineering Conformance Certificate

In accordance with RIS-1530-PLT – Issue 7.2
Certificate no.: 71/1474/25
Report no.: TRUK/B 25/203, (Issue 1, 23/10/2025). 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	912/Manitou/RR AP ART17TH/9A
Vehicle Asset Manager	Krauss & Hall Ltd
Issue Date	24-10-2025
Expiry Date (if any)	22-10-2032
Vehicle Number(s)	ZZ709 912379-3
First in Class:	Yes
Certificate No. of First in Class:	ZZ709 912379-3 on ECC 71/1474/25, against RIS-1530-PLT Issue 7.2.

Authorised by: **Official Stamp of TRUK, CAB Rail**

e.Sig: NDC/TUV/25/0985

TÜVRheinland® Conformity Assessment Body Rail
TÜV Rheinland UK Limited

Certifier / Signatory Name **Neil Charles Principal Engineer**

Reason for Issue and Scope of Work
Previous Certificate:
Certification of a new Road Rail MEWP Vehicle.

This Certificate:
Certification of upgraded Manitou ART17TH MEWP and addition of XW MEWP HP-MLD.

Manufacturer Serial No.: 43121 Fleet No.: 103

Assessed for compliance with RIS-1530-PLT, Issue 7.2.

Deviations associated with this Certificate (if none state "NONE")
Tracker No. 29075
Description Derogation against Clause 5.3.1c) – Use 50 metre curve during calculations.

Previous Certificate No.
(if none state "NONE"): NS/0256/17

Maintenance Instruction Details
Maintenance Instruction Title: Fitzgerald Plant Services ART17 RRV MEWP Operation & Maintenance Manual
Maintenance Instruction Number: FPM0068 **Issue No.:** 3 **Date:** 22/10/2025

Limitations of Use *(these words are mandatory where applicable)*

1. The machine shall only operate inside a possession.
2. When travelling, the machine is within W6a gauge as defined in RIS-1530-PLT.
3. When working, the MEWP basket, its elevating booms and pantograph can be out of W6a gauge depending on the slew and height settings in use.
   The maximum Tailswing gauge exceedance of 252mm occurs when the boom is positioned at right angle to the track.
4. The machine shall not on/off track, travel, or work on live conductor rail lines.
5. For on/off tracking, a site-specific plan shall be used taking account of the applicable module of Network Rail Infrastructure Plant Manual NR/L2/RMVP/0200.
6. The machine shall not be on/off tracked on:
   - Cant greater than 150mm.
   - Gradients greater than 1:25.
7. The machine is permitted to on/off track and travel under live OLE when used in conjunction with a safe system of work determined and approved by taking guidance from the requirements of GE/RT8000-HB16 and provided the boom is in the stowed position for travel (the basket floor less than 1.4m above rail level), the OLE Key switch locked and the OLE key switch removed.
   - Minimum OLE wire height is 4.165m.
   - Except for the MEWP basket, access on to any part of the machine that is more than 1.4m above rail level is prohibited when it is under live OLE.
8. ALO working shall only be in accordance with the approved safe system of work for the possession that takes account of all gauge exceedance. The machine is fitted with a High Performance Movement Limiting Device. The machine may be used in ALO configurations where a High Performance MLD is required. The system shall be set with its functionality and reliability proven correct prior to use in accordance with XWatch user manual '**XW MEWP MLD Operating Instruction'**, Issue 1.4
9. The machine shall not work with any adjacent lines open to traffic where the distance between the centre line on which the vehicle is working and the centre line of any open line is less than 3600mm. This is to account for tailswing gauge exceedance.
10. The vehicle encroachers into the area reserved for infrastructure equipment in the lower sector. A site survey shall be undertaken to assess potential damage to infrastructure equipment prior to use.
11. The machine will not activate train operated points.
12. The machine must not be travelled on track with:
    - Cants greater than 200mm.
    - Gradients greater than 1:25.
    - Curves less than 80m.
13. The machine must not be worked on track with:
    - Cants greater than 180mm.
    - Gradients greater than 1:25.
    - Curves less than 80m.
14. Travel movements of the machine must be carried out with operator direct line-of-site or utilising the CCTV.
15. Machine side steps, not to be used in travelling or working mode (maintenance and recovery only).
16. For access/egress, the machine shall only operate with the basket adjacent to a cess or a line closed to all train movements, or the safe system of work takes account of adequate clearance to adjacent lines.
17. The machine shall not work under live OLE.
18. When in use the machine shall have a current certificate of approval, test and/or thorough examination.
19. The machine shall only be used in accordance with the manufacturer's safety and operating instructions, and the safe system of work for the possession.
20. Maximum basket payload shall not exceed 400kg (three personnel and tools). Refer to manufacturer's working envelope diagrams for additional payload requirements.
21. Machine is permitted to tow or propel 1-off approved 2-wheeled trailer with compatible coupling system.
    Maximum permitted weight of trailers and load is 520 kg.
22. The machine shall not be used in windspeeds exceeding 45 km/h (28mph) (12.5m/s)

Supplementary Information - *(Optional – minimum requirements where applicable)*

1. The machine is a mobile elevated work platform (MEWP) for use on road and rail.
2. Manufacturer Serial No. 43121 Fleet No. 103.
3. The machine operates on rail in high mode only.
4. The machine has no load carrying area, except the MEWP basket.
5. The machine may be fitted with Pantograph measuring equipment.
6. The machine is fitted with a data logger.
7. Vehicle weights:
   - Tare: 12,000kg
   - Gross: 12,550kg (inclusion of Pantograph)
8. Maximum permitted working and travelling speeds:
   - Maximum speed: 7.5mph (Travelling);
   - Maximum speed: 1mph (Working);
   - Maximum speed: 2.5mph (Towing / propelling);
   - Maximum speed: 2.5mph (Switches & Crossings);
   - Maximum speed: 2.5mph (Raised checkrails).
9. The machine is approved to carry 3 persons and tools in the MEWP basket.
10. The machine is fitted with a Network Rail approved electronic slew system that has been approved by Network Rail technical services. The system must be configured and functioning correctly to be considered as 'reliable'.
11. XWatch XW MEWP HP-MLD:
    - XW System ID: 6270
    - Sofware Version: 1.13.1

Limitations of Use *(these words are mandatory where applicable)*

1. The machine shall only operate inside a possession.
2. When travelling, the machine is within W6a gauge as defined in RIS-1530-PLT.
3. When working, the MEWP basket, its elevating booms and pantograph can be out of W6a gauge depending on the slew and height settings in use.
   The maximum Tailswing gauge exceedance of 252mm occurs when the boom is positioned at right angle to the track.
4. The machine shall not on/off track, travel, or work on live conductor rail lines.
5. For on/off tracking, a site-specific plan shall be used taking account of the applicable module of Network Rail Infrastructure Plant Manual NR/L2/RMVP/0200.
6. The machine shall not be on/off tracked on:
   - Cant greater than 150mm.
   - Gradients greater than 1:25.
7. The machine is permitted to on/off track and travel under live OLE when used in conjunction with a safe system of work determined and approved by taking guidance from the requirements of GE/RT8000-HB16 and provided the boom is in the stowed position for travel (the basket floor less than 1.4m above rail level), the OLE Key switch locked and the OLE key switch removed.
   - Minimum OLE wire height is 4.165m.
   - Except for the MEWP basket, access on to any part of the machine that is more than 1.4m above rail level is prohibited when it is under live OLE.
8. ALO working shall only be in accordance with the approved safe system of work for the possession that takes account of all gauge exceedance. The machine is fitted with a High Performance Movement Limiting Device. The machine may be used in ALO configurations where a High Performance MLD is required. The system shall be set with its functionality and reliability proven correct prior to use.
9. The slew limiting system can only limit the slew over one side of the vehicle at any time. The machine is not permitted to work with both sides of the machine adjacent to open line.
10. The machine shall not work with any adjacent lines open to traffic where the distance between the centre line on which the vehicle is working and the centre line of any open line is less than 3600mm. This is to account for tailswing gauge exceedance.
11. The vehicle encroachers into the area reserved for infrastructure equipment in the lower sector. A site survey shall be undertaken to assess potential damage to infrastructure equipment prior to use.
12. The machine will not activate train operated points.
13. The machine must not be travelled on track with:
    - Cants greater than 200mm.
    - Gradients greater than 1:25.
    - Curves less than 80m.
14. The machine must not be worked on track with:
    - Cants greater than 180mm.
    - Gradients greater than 1:25.
    - Curves less than 80m.
15. Travel movements of the machine must be carried out with operator direct line-of-site or utilising the CCTV.
16. Machine side steps, not to be used in travelling or working mode (maintenance and recovery only).
17. For access/egress, the machine shall only operate with the basket adjacent to a cess or a line closed to all train movements, or the safe system of work takes account of adequate clearance to adjacent lines.
18. The machine shall not work under live OLE.
19. When in use the machine shall have a current certificate of approval, test and/or thorough examination.
20. The machine shall only be used in accordance with the manufacturer's safety and operating instructions, and the safe system of work for the possession.
21. Maximum basket payload shall not exceed 400kg (three personnel and tools). Refer to manufacturer's working envelope diagrams for additional payload requirements.
22. Machine is permitted to tow or propel 1-off approved 2-wheeled trailer with compatible coupling system.
    Maximum permitted weight of trailers and load is 520 kg.
23. The machine shall not be used in windspeeds exceeding 45 km/h (28mph) (12.5m/s)

Supplementary Information - *(Optional – minimum requirements where applicable)*

1. The machine is a mobile elevated work platform (MEWP) for use on road and rail.
2. Manufacturer Serial No. 43127 Fleet No. 104.
3. The machine operates on rail in high mode only.
4. The machine has no load carrying area, except the MEWP basket.
5. The machine may be fitted with Pantograph measuring equipment.
6. The machine is fitted with a data logger.
7. Vehicle weights:
   - Tare: 12,000kg
   - Gross: 12,550kg (inclusion of Pantograph)
8. Maximum permitted working and travelling speeds:
   - Maximum speed: 7.5mph (Travelling);
   - Maximum speed: 1mph (Working);
   - Maximum speed: 2.5mph (Towing / propelling);
   - Maximum speed: 2.5mph (Switches & Crossings);
   - Maximum speed: 2.5mph (Raised checkrails).
9. The machine is approved to carry 3 persons and tools in the MEWP basket.
10. The machine is fitted with a Network Rail approved electronic slew system that has been approved by Network Rail technical services. The system must be configured and functioning correctly to be considered as 'reliable'.
    The slew limiting system is NOT capable of limiting movement over both sides simultaneously. The vehicle is NOT permitted to work with both sides adjacent to open lines. This MUST be accounted for in the safe system of work.

On-Track Plant Engineering Conformance Certificate

In accordance with RIS-1530-PLT – Issue 6
Certificate no.: 71/1068/24
Report no.: TRUK/B 23/150 (issue 1, 01/12/2023) and TRUK/B 24/055, (Issue 1, 25/03/2024) in combination. The 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	912/Manitou/RR AP ART17TH/9A
Vehicle Asset Manager	Kraus & Hall Ltd
Issue Date	26-03-2024
Expiry Date (if any)	23-02-2031
Vehicle Number(s)	99709 912383-5
First in Class:	No
Certificate No. of First in Class:	99709 912382-7 on Certificate 71/1281/23, against RIS-1530-PLT Issue 6.

Authorised by:

ESig: NDC/TUV/24/148
Certifier / Signatory Name **Neil Charles**
Senior Engineer

Official Stamp of TRUK, CAB Rail

TÜVRheinland®
Conformity Assessment
Body Rail
TÜV Rheinland UK Limited

Reason for Issue and Scope of Work

Reason for Issue:
Certification of upgraded Manitou ART17TH MEWP.

Manufacturer Serial No. 43125. Fleet No. 101

Assessed for compliance with RIS-1530-PLT, Issue 6.
Assessed for compliance with RIS-1530-PLT, Issue 7.1, Section 5.9.1.
Expiry date conforms to the requirements of RIS-1530-PLT.

Scope of Work

Upgrade and addition of GKD Rail MEWP HP-MLD and side carrying trays. No other engineering changes.

Deviations associated with this Certificate (if none state "NONE")
Tracker Number 29075, Derogation against Clause 5.3.1 c) - Use on 50 metre radius curve for calculations.

Previous Certificate No.
(if none state "NONE"): 21/0248/23

Maintenance Instruction Details
Maintenance Instruction Title: ART17 T (TH) Mobile Elevated Work Platform Upgrade Operation & Maintenance Manual

Maintenance Instruction Number: NPS 1010 **Issue No.:** 2 **Date:** 21/03/2024

On-Track Plant Engineering Conformance Certificate

In accordance with RIS-1530-PLT – Issue 6
Certificate no.: 71/1473/25
Report no.: TRUK/B 25/203, (Issue 1, 23/10/2025). 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	912/Manitou/RR AP ART17TH/9A
Vehicle Asset Manager	Krause & Hall Ltd
Issue Date	24-10-2025
Expiry Date (if any)	01-12-2030
Vehicle Number(s)	99709 912382-7
First in Class:	Yes
Certificate No. of First in Class:	99709 912382-7 on certificate 71/1473/25, against RIS-1530-PLT Issue 6.

Authorised by: **Official Stamp of TRUK, CAB Rail**

e.Sig: NDC/TUV/25/0984

TÜVRheinland® Conformity Assessment Body Rail
TÜV Rheinland UK Limited

Certifier / Signatory Name **Neil Charles Principal Engineer**

Reason for Issue and Scope of Work
Previous Certificate:
Certification of upgraded Manitou ART17TH MEWP.
Assessed against RIS-1530-PLT Issue 6.

This Certificate:
Engineering Change – Installation of XW MEWP HP-MLD System. No other engineering changes

Manufacturer Serial No.: 43124 Fleet No.: 102

Base machine maintains compliance with RIS-1530-PLT, Issue 6.
Engineering Change assessed for compliance with RIS-1530-PLT, Issue 7.2.
Expiry date conforms to the requirements of RIS-1530-PLT.

Deviations associated with this Certificate (if none state "NONE")
Tracker No. 29075
Description Derogation against Clause 5.3.1c) – Use 50 metre curve during calculations.

Previous Certificate No.
(if none state "NONE"): 71/1281/23

Maintenance Instruction Details
Maintenance Instruction Title: ART17 T (TH) Mobile Elevated Work Platform Upgrade Operation & Maintenance Manual
Maintenance Instruction Number: NPS 1010 **Issue No.:** 1 **Date:** 15/09/2023

Maintenance Instruction Title: Fitzgerald Plant Services ART17 RRV MEWP Operation & Maintenance Manual
Maintenance Instruction Number: FPM0068 **Issue No.:** 3 **Date:** 22/10/2025

TÜVRheinland® Precisely Right.

Limitations of Use *(these words are mandatory where applicable)*

1. The machine shall only operate inside a possession.
2. When travelling, the machine is within W6a gauge as defined in RIS-1530-PLT.
3. When working, the MEWP basket, its elevating booms and pantograph can be out of W6a gauge depending on the slew and height settings in use.
   The maximum Tailswing gauge exceedance of 252mm occurs when the boom is positioned at right angle to the track.
4. The machine shall not on/off track, travel, or work on live conductor rail lines.
5. For on/off tracking, a site-specific plan shall be used taking account of the applicable module of Network Rail Infrastructure Plant Manual NR/L2/RMVP/0200.
6. The machine shall not be on/off tracked on:
   - Cant greater than 150mm.
   - Gradients greater than 1:25.
7. The machine is permitted to on/off track and travel under live OLE when used in conjunction with a safe system of work determined and approved by taking guidance from the requirements of GE/RT8000-HB16 and provided the boom is in the stowed position for travel (the basket floor less than 1.4m above rail level), the OLE Key switch locked and the OLE key switch removed.
   - Minimum OLE wire height is 4.165m.
   - Except for the MEWP basket, access on to any part of the machine that is more than 1.4m above rail level is prohibited when it is under live OLE.
8. ALO working shall only be in accordance with the approved safe system of work for the possession that takes account of all gauge exceedance. The machine is fitted with a High Performance Movement Limiting Device. The machine may be used in ALO configurations where a High Performance MLD is required. The system shall be set with its functionality and reliability proven correct prior to use in accordance with XWatch user manual '**XW MEWP MLD Operating Instruction'**, Issue 1.4
9. The machine shall not work with any adjacent lines open to traffic where the distance between the centre line on which the vehicle is working and the centre line of any open line is less than 3600mm. This is to account for tailswing gauge exceedance.
10. The vehicle encroachers into the area reserved for infrastructure equipment in the lower sector. A site survey shall be undertaken to assess potential damage to infrastructure equipment prior to use.
11. The machine will not activate train operated points.
12. The machine must not be travelled on track with:
    - Cants greater than 200mm.
    - Gradients greater than 1:25.
    - Curves less than 80m.
13. The machine must not be worked on track with:
    - Cants greater than 180mm.
    - Gradients greater than 1:25.
    - Curves less than 80m.
14. Travel movements of the machine must be carried out with operator direct line-of-site or utilising the CCTV.
15. Machine side steps, not to be used in travelling or working mode (maintenance and recovery only).
16. For access/egress, the machine shall only operate with the basket adjacent to a cess or a line closed to all train movements, or the safe system of work takes account of adequate clearance to adjacent lines.
17. The machine shall not work under live OLE.
18. When in use the machine shall have a current certificate of approval, test and/or thorough examination.
19. The machine shall only be used in accordance with the manufacturer's safety and operating instructions, and the safe system of work for the possession.
20. Maximum basket payload shall not exceed 400kg (three personnel and tools). Refer to manufacturer's working envelope diagrams for additional payload requirements.
21. Machine is permitted to tow or propel 1-off approved 2-wheeled trailer with compatible coupling system.
    Maximum permitted weight of trailers and load is 520 kg.
22. The machine shall not be used in windspeeds exceeding 45 km/h (28mph) (12.5m/s)

Supplementary Information - *(Optional – minimum requirements where applicable)*

1. The machine is a mobile elevated work platform (MEWP) for use on road and rail.
2. Manufacturer Serial No. 43124 Fleet No. 102.
3. The machine operates on rail in high mode only.
4. The machine has no load carrying area, except the MEWP basket.
5. The machine may be fitted with Pantograph measuring equipment.
6. The machine is fitted with a data logger.
7. Vehicle weights:
   - Tare: 12,000kg
   - Gross: 12,550kg (inclusion of Pantograph)
8. Maximum permitted working and travelling speeds:
   - Maximum speed: 7.5mph (Travelling);
   - Maximum speed: 1mph (Working);
   - Maximum speed: 2.5mph (Towing / propelling);
   - Maximum speed: 2.5mph (Switches & Crossings);
   - Maximum speed: 2.5mph (Raised checkrails).
9. The machine is approved to carry 3 persons and tools in the MEWP basket.
10. The machine is fitted with a Network Rail approved electronic slew system that has been approved by Network Rail technical services. The system must be configured and functioning correctly to be considered as 'reliable'.
11. XWatch XW MEWP HP-MLD:
    - XW System ID: 6271
    - Sofware Version: 1.13.1

Limitations of Use *(these words are mandatory where applicable)*

1. The machine shall only operate inside a possession.
2. When travelling, the machine is within W6a gauge as defined in RIS-1530-PLT.
3. When working, the MEWP basket, its elevating booms and pantograph can be out of W6a gauge depending on the slew and height settings in use.
   The maximum Tailswing gauge exceedance of 252mm occurs when the boom is positioned at right angle to the track.
4. The machine shall not on/off track, travel, or work on live conductor rail lines.
5. For on/off tracking, a site-specific plan shall be used taking account of the applicable module of Network Rail Infrastructure Plant Manual NR/L2/RMVP/0200.
6. The machine shall not be on/off tracked on:
   - Cant greater than 150mm.
   - Gradients greater than 1:25.
7. The machine is permitted to on/off track and travel under live OLE when used in conjunction with a safe system of work determined and approved by taking guidance from the requirements of GE/RT8000-HB16 and provided the boom is in the stowed position for travel (the basket floor less than 1.4m above rail level), the OLE Keyswitch locked and the OLE key switch removed.
   - Minimum OLE wire height is 4.165m.
   - Except for the MEWP basket, access on to any part of the machine that is more than 1.4m above rail level is prohibited when it is under live OLE.
8. The MEWP shall only be to work ALO with the GKD ALO system active, the Slew limit and/ Virtual wall correctly set with its functionality and reliability proven correct prior to use in accordance with GKD user Manual **'MEWP Road Rail Control User manual M31000005 V1.00'**
9. ALO working shall only be in accordance with the approved safe system of work for the possession that takes account of all gauge exceedance. The machine is fitted with a GKD High Performance Movement Limiting. The machine may be used in ALO configurations where a High Performance MLD is required.
10. The slew limiting system can be set to a different on both sides of the vehicle, left or right-hand side, and is to be used in line with the work requirement detailed in the SSOW.
11. The machine shall not work with any adjacent lines open to traffic where the distance between the centre line on which the vehicle is working and the centre line of any open line is less than 3600mm. This is to account for tailswing gauge exceedance.
12. The machine shall not work ALO on London Underground Infrastructure.
13. The machine will not activate train operated points.
14. The machine must not be travelled on track with:
    - Cants greater than 200mm.
    - Gradients greater than 1:25.
    - Curves less than 80m.
15. The machine must not be worked on track with:
    - Cants greater than 180mm.
    - Gradients greater than 1:25.
    - Curves less than 80m.
16. Travel movements of the machine must be carried out with operator direct line-of-site or utilising the CCTV.
17. Machine side steps, not to be used in travelling or working mode (maintenance and recovery only).
18. For access/egress, the machine shall only operate with the basket adjacent to a cess or a line closed to all train movements, or the safe system of work takes account of adequate clearance to adjacent lines.
19. The machine shall not work under live OLE.
20. When in use the machine shall have a current certificate of approval, test and/or thorough examination.
21. The machine shall only be used in accordance with the manufacturer's safety and operating instructions, and the safe system of work for the possession.
22. Maximum basket payload shall not exceed 400kg (three personnel and tools). Refer to manufacturer's working envelope diagrams for additional payload requirements.
23. The vehicle encroaches into the area reserved for infrastructure equipment in the lower sector. A site survey shall be undertaken to assess potential damage to infrastructure equipment prior to use.
24. Machine is permitted to tow or propel 1-off approved 2-wheeled trailer with compatible coupling system.
    Maximum permitted weight of trailers and load is 520 kg.
25. The machine shall not be used in windspeeds exceeding 45 km/h (28mph) (12.5m/s)

Supplementary Information - *(Optional – minimum requirements where applicable)*

1. The machine is a mobile elevated work platform (MEWP) for use on road and rail, fitted with a measuring pantograph.
2. Manufacturer Serial No. 43125 Fleet No. 101.
3. The machine operates on rail in high mode only.
4. The machine has no load carrying area, except the MEWP basket and designated side carriers.
5. The machine is fitted with a data logger.
6. Gross vehicle weight: 12,200kg.
7. Maximum permitted working and travelling speeds:
   - Maximum speed: 7.5mph (Travelling);
   - Maximum speed: 1mph (Working);
   - Maximum speed: 2.5mph (Towing / propelling);
   - Maximum speed: 2.5mph (Switches & Crossings);
   - Maximum speed: 2.5mph (Raised checkrails).
8. The machine is approved to carry 3 persons and tools in the MEWP basket.
9. The machine is fitted with a Network Rail approved electronic slew system that has been approved by Network Rail technical services. The system must be configured and functioning correctly to be considered as 'reliable'.
   GKD Rail:
   - GKD Rail Display: P1100001
   - Software Version: 11.7.0
10. The slew limiting system can be set to a different on both sides of the vehicle, left or right-hand side, and is to be used in line with the work requirement detailed in the SSOW.