

STORY
PLANT

Fleet Capability

JUNE 2023



Providing innovative solutions

We are one of the UK's leading operated RRV hire companies, providing a wide range of specialist machines and services for work on the rail infrastructure throughout the country.

With over 120 Road Rail Vehicles, backed by an experienced, award-winning team of industry experts, we are ideally placed to work closely with our clients to develop solutions for even the most challenging of projects.

We deliver complex projects safely, on time and within budget and hold 'Gold' accreditation on Network Rail's Route to Gold for plant reliability and continuous improvement.



Industry-leading plant fleet

Our fleet of specialist machinery includes some of the most advanced and innovative machines available on the UK rail infrastructure ensuring we are able to deliver schemes safely, on-time and to budget. Our fleet includes several specialist machines, enabling us to work collaboratively with our clients to achieve significant value engineering opportunities and design out risk.

Our fleet is complemented by a range of trailers and specialist attachments including low headroom panel grabs, log grabs, sleeper spiders, tube cube and cutting-edge Movax piling equipment.

WHEELED EXCAVATOR RRV'S

Our fleet of Wheeled RRV's includes a range of heavy-lifting machines capable of carrying out a variety of works on-site. Our fleet includes state-of-the-art Liebherr 924's, Colmar T10000s and Liebherr A900 machines.

TRACKED EXCAVATOR RRV'S

We operate a fleet of technologically advanced Tracked RRV's which boast incredible flexibility and versatility. This includes our exclusive Liebherr 920 machines, alongside Kobelco, Komatsu, JCB and Hitachi models allowing us to overcome the most complex of site problems.

RRV DOZERS

We operate a number of RRV Dozers of varying sizes and capabilities, including our CAT D6K2 dozer, the largest dozer available on the UK rail infrastructure. Our larger machines provide significant pushing power, whilst our smaller dozers can work in restrictive environments such as tunnels, viaducts and around catchpits.

MEWP'S

We operate a fleet of 28 of the most technologically advanced Mobile Elevated Working Platforms (MEWP's). Ideal for carrying out all working at height tasks including OLE works and structure inspections.

RRV CRANE

Our Colmar T10000 RRV Crane is one of the only machines of its type in the UK after the completion of a bespoke conversion programme. Following completion of lifting or carrying crane duties, the machine can revert to RRV mode and is compatible with a wide range of attachments.

UNIMOG

Our RRV Unimog ideal for use on both road and rail. Its powerful engine, high-performance transmission, all-wheel drive with differential locks and a torque converter for smooth starts. Combined with our fleet of rail trailers, the Unimog can haul loads of up 140T on track.

ATTACHMENTS

Our machines are available with a wide range of specialist attachments including our 'magic' safety lifting hook, log grabs, sleeper spiders, low headroom panel grabs and de-clipper. We also operate cutting-edge Movax piling equipment, available for use on and off rail.

PLANT SERVICES

As well as our large plant range, we are able to offer our clients a selection of small rail plant and tools as well as a host of consumable product. These can be delivered at the same time as the large plant which significantly reduces transport and administration costs.

Wheeled Excavator RRV's

Our fleet of Wheeled RRV's includes a range of heavy-lifting machines capable of carrying out a variety of works on-site. Our fleet models include:

- Liebherr A924 (Straight & Offset Booms)
- Colmar T10000FS
- Liebherr A900CZW 972 (Straight & Offset Booms)
- Liebherr A900CZW Type 9B (Offset boom & ALO compliant)
- Liebherr A900CZW/1384
- Liebherr A900ZW Low Rail (Straight & Offset Booms)





Liebherr A924

Overall weight	24.4t
Height	3260mm
Width	2565mm
Tailswing gauge exceedence	700mm
Max underside height of trailswing	1425mm
Max rail travel speed	20km/h
Max working CANT	150mm
Max travelling CANT	200mm
Max on/off tracking CANT	150mm
Max gradient	1 in 25
Work under live OLE	YES
Work ALO	YES

Colmar T10000 FS

Overall weight	32t
Height	3080mm
Width	2525mm
Max reach (dipper extended/retracted)	7.18m/ 6.18m
Max reach (dipper retracted)	6.18m
Max rail travel speed	20km/h
Max working CANT	150mm
Max travelling CANT	200mm
Max on/off tracking CANT	150mm
Max gradient	1 in 25
Work under live OLE	YES
Work ALO	YES

Liebherr A900CZW 972

Overall weight	24t
Height	3280mm
Width	2525mm
Tailswing gauge exceedence	680mm
Max underside height of trailswing	1400mm
Max rail travel speed	20km/h
Towing capacity	96t
Max working CANT	150mm
Max travelling CANT	200mm
Max on/off tracking CANT	150mm
Max gradient	1 in 25
Work under live OLE	YES
Work ALO	YES



Liebherr A900CZW Type 9B

Boom type	Offset
Overall weight	28t
Height	3290mm
Width	2500mm
Tailswing gauge exceedence	750mm
Max underside height of trailswing	1426mm
Max towing capacity (level rail/gradient)	96t/56t
Max working CANT	150mm
Max travelling CANT	200mm
Max on/off tracking CANT	150mm
Max gradient	1 in 25
Work under live OLE	YES
Work ALO	YES

Liebherr A900CZW/1384

Overall weight	26.5t
Height	3290mm
Width	2500mm
Tailswing gauge exceedence	750mm
Max underside height of trailswing	1426mm
Max rail travel speed	20km/h
Max towing capacity (level rail/gradient)	96t/56t
Max working CANT	150mm
Max travelling CANT	200mm
Max on/off tracking CANT	150mm
Max gradient	1 in 25
Work under live OLE	YES
Work ALO	YES

Liebherr A900ZW Low Rail

Overall weight	23t
Tailswing gauge exceedence	590mm
Max underside height of trailswing	1283mm
Max rail travel speed	20km/h
Towing capacity	280t/ 12 trailers
Max working CANT	150mm
Max travelling CANT	200mm
Max on/off tracking CANT	150mm
Max gradient	1 in 25

Tracked Excavator RRV's

We operate a fleet of technologically advanced Tracked RRV's which boast incredible flexibility and versatility. This includes our exclusive Liebherr 920 machines, alongside Kobelco, Komatsu, JCB and Hitachi models allowing us to overcome the most complex of site problems. Our fleet models include:

- Liebherr R920
- Hitachi AP325
- JCB JZ140
- Komatsu PC138 (Standard and Offset/Z-Boom)
- Kobelco 135





Liebherr R920

Overall weight	31.6t
Height	3380mm
Gauge exceedence	670mm
Max underside height of trailswing	1426mm
Max towing capacity (level rail/gradient)	80t
Max CANT (working, travelling, on tracking)	150mm
Dig depth	5.9m
Max reach	7.7m
Rhino Horn compatability	Yes - 3m only
Work under live OLE	YES
Work ALO	YES
Lift capacity @ 6m radius, 1.5m height, 360° rotation	5.25t

Hitachi AP235

Overall weight	23.3t
Height	3234mm
Width	2490mm
Tailswing gauge exceedence	334mm
Max underside height of trailswing	1542mm
Max rail travel speed	16km/h
Max towing capacity	40t
Max working CANT	150mm
Max travelling CANT	200mm
Max on/off tracking CANT	100mm
Max gradient	1 in 25
Work under live OLE	N/A
Work ALO	N/A

JCB JZ140

Overall weight	23.4t
Height	3180mm
Width	2490mm
Tailswing gauge exceedence	242mm
Max underside height of trailswing	1578mm
Max rail travel speed	16km/h
Towing capacity	40t
Max working CANT	150mm
Max travelling CANT	200mm
Max on/off tracking CANT	150mm
Max gradient	1 in 25
Work under live OLE	N/A
Work ALO	N/A



Komatsu PC138

Overall weight	16-24t
Height	3350mm
Width	2500mm
Max lifting capacity	6.8m
Tailswing gauge exceedence	250mm
Max underside height of trailswing	1180mm
Max rail travel speed	20km/h
Max working CANT	150mm
Max travelling CANT	200mm
Max on/off tracking CANT	150mm
Max gradient	1 in 25
Work under live OLE	Request
Work ALO	Request

Kobelco 135

Overall weight	23t
Height	3200mm
Width	2520mm
Tailswing gauge exceedence	145mm
Max underside height of trailswing	1325mm
Max rail travel speed	16km/h
Max working CANT	150mm
Max travelling CANT	200mm
Max on/off tracking CANT	150mm
Max gradient	1 in 25
Work under live OLE	Request
Work ALO	Request



RRV Dozers

We operate a number of RRV Dozers of varying sizes and capabilities, including our CAT D6K2 dozer, the largest dozer available on the UK rail infrastructure. Our larger machines provide significant pushing power, whilst our smaller dozers can work in restrictive environments such as tunnels, viaducts and around catchpits. Our fleet models include:

- CAT D6K2
- CAT D5M
- CAT D4G
- Komatsu D41P



CAT D6K2

Overall weight	16.66t
Height (on rail)	3440mm
Height (on road)	3240mm
Noise level in cab	78dB
Engine power	93kW
Travel speed (on rail)	10mph
ALO (travelling)	YES
Folding blade	YES
Blade width (extended/folded) <i>*must be extended for use</i>	3.7m/2.3m
Blade capacity (extended only)	3.81m ³
Ground pressure	0.56kg/cm ²
Control system	Trimble Earthworks - single mast



CAT D5M

Overall weight	14.5t
Height	3330mm
Width	2600mm
Length	5550mm
Max CANT travelling	200mm
Max CANT on/off tracking	150mm
Max gradient	1 in 25
Work ALO	YES
Travel speed (on rail)	16km/h
Ground clearance	500mm
Max blade width	3100mm
Max blade capacity	2.6m ³

CAT D4G

Overall weight	10.78t
Height	3082mm
Width	2645mm
Length	4930mm
Max CANT travelling	150mm
Max CANT on/off tracking	150mm
Max gradient	1 in 29
Work ALO	n/a
Travel speed (on rail)	16km/h
Ground clearance	400mm
Max blade width	2645mm
Max blade capacity	2m ³

Komatsu D41P

Overall weight	13.75t
Height	3150mm
Width	2500mm
Length	5550mm
Max CANT travelling	200mm
Max CANT on/off tracking	100mm
Max gradient	1 in 25
Travel under live OLE	YES
Travel speed (on rail)	11km/h
Ground clearance	525mm
Max blade width	3045mm
Max blade capacity	2.5m ³



MEWP's

We operate a fleet of 28 of the most technologically advanced Mobile Elevated Working Platforms (MEWP's). Ideal for carrying out all working at height tasks including OLE works and structure inspections. Our fleet models include:

- Manitou ART17TH
- EVO RR14

Manitou ART17TH

Overall weight	12.4t
Max working height	16.25m
Max lateral outreach	8.95m
Basket capacity	400kg
Max rail travel speed	12km/h
Width	2.7m
Length	4.94m
Up and Over Clearance	7.00m
Ground clearance	425mm
Max gradient	1 in 16
Turret rotation	360°
Basket rotation	+/- 90°
Work ALO/under OLE	YES

EVO RR14

Overall weight	12.9t
Max working height	14.4m
Max lateral outreach (static) 300kg/400kg	9.3m/6.3m
Basket capacity	400kg
Towing capacity	2.5t
Max rail travel speed	14km/h
Width	2.36m
Length when stowed	6.35m
Max working/travelling CANT	200mm
Max on/off tracking CANT	150mm
Max gradient	1 in 16
Turret rotation	400°
Basket rotation	90° + 90°
Work ALO/under OLE	YES

RRV Crane

Our Colmar T10000 RRV Crane is one of the only machines of its type in the UK after the completion of a bespoke conversion programme. Following completion of lifting or carrying crane duties, the machine can revert to RRV mode and is compatible with a wide range of attachments.



Colmar T10000 RRV Crane

Overall weight	33t
Height	3138mm
Weight	2525mm
Max working radius	11.2m
Max lifting capacity (boom retracted)	6 tonnes
Max lifting capacity (boom retracted)	3 tonnes
Max lifting height	11.3m
Towing capacity	46 tonnes
Cab rotation	360°
Max working CANT	150mm
Max gradient	1:25
Max rail travel speed	10mph
Work under live OLE	YES
Work ALO	YES

Unimog

Our RRV Unimog ideal for use on both road and rail. Its powerful engine, high-performance transmission, all-wheel drive with differential locks and a torque converter for smooth starts. Combined with our fleet of rail trailers, the Unimog can haul loads of up 140T on track.



Unimog - Type 9C Low Rail

Overall weight	7.8t
Height	3400mm
Width	2300mm
Max travelling CANT	200mm
Max working CANT	200mm
Max on/off tracking CANT	50mm
Max gradient	1 in 25
Travel under live OLE	YES
Travel ALO	YES
Speed on rail	32km/h
Towing capacity	140t/6 trailers

Attachments

Our machines are available with a wide range of specialist attachments which enhance the versatility of our award-winning fleet.

Our wide range of attachments means that we can work in close collaboration with our clients to develop innovative solutions, while optimising the utilisation of machines on-site to generate cost efficiencies for on our schemes.

You can see a full list of our attachments on this page, or speak to a member of our team to find out more.



Our attachments

- Auger
- Bag Beam
- Ballast Brush
- Ballast Plough
- Breaker
- Buckets
- Cable Reeler
- Clamshell
- Cooper Rollers
- De-Clipper
- Drag Clamp
- Extending Hydraulic Rail Beam
- Flail
- Hanging Cable Reeler/Dispenser
- Kinshoffer
- Powered Digging Clamshell
- Lifting Beam
- Lifting Hook
- Log Grab
- Low Headroom Panel Beam
- Magic Hook
- Movax Sidegrip Vibratory Piling Unit
- Movax Impact Hammer
- Multi-Sleeper Grab
- Narrow Clamshell
- Panel Grab
- Personnel Carrier (4 and 12 person)
- Pile Hammer
- Profile Bucket
- Rail Cropper
- Rhino Horn
- Riddle Bucket
- Rock Wheel
- SB60 Hydraulic Sleeper Changer
- Scissor Grab
- Sleeper Grab
- Sleeper Lifting Beam
- Sleeper Spider
- Tamping Bank
- Thimble
- Tilt Rotator
- Tilting Ditching Bucket
- Trailer Boxes
- Trailers
- Tube Cube
- Universal Beam
- Vibratory Piling Hammer
- Wacker Plate
- Wet Bed Bucket