



Plant specification

Minimum mandatory requirements

Contents

SCS have set out the minimum mandatory requirements for plant specification. There are more specifications will more due to be added later 2022.

Plant specifications

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All plant and vehicles used below ground level constitutes a major source of both fuel and ignition and should be fitted with an automatic fire suppression system.

Mobile plant, such as excavators, shotcrete robots or dumpers, and any major static plant underground, such as compressors or generators, should be fitted with fixed fire suppression systems in accordance with BS 6164:2019 Code of Practice for Health and Safety in Tunnelling in the Construction Industry and BS EN ISO 19296:2018 Mining – Mobile machines working underground – Machinery safety.

SCSJV have defined ‘tunnel works’ to include underground horizontal excavation works. Shaft works will be classified as ‘tunnelling’ works when the depth of the shaft is greater than the diameter or the excavation depth is 10m or greater, whichever is soonest.

Scope

There are three main categories of mechanical plant and equipment used below ground level which should be considered. The categories are:

1. **TBMs – all TBMs should comply with BS EN 16191.**
2. **Specialized tunnel plant** – this includes bespoke plant primarily intended for use underground such as MSVs, shotcrete robots, locomotives and road headers conforming to BS EN 12111 and BS EN ISO 19296.

Note: Plant in this category might already have had a fixed on-board fire suppression system before arriving on site.

3. **Surface construction plant** – this includes mobile plant intended for use on the surface but taken underground such as earthmoving plant, excavators, dumpers, MEWPs, and road going vehicles along with static plant such as concrete/grout pumps, generators and compressors.

Fire Suppression Systems

- All mechanical plant and equipment identified above should have **fixed fire suppression systems** covering the fire-risk areas of the machine where identified by risk assessment. These should include as follows:
 - **engine compartment and fuel storage,**
 - **hydraulic pumps,**
 - **motors and oil storage tanks,**
 - **the cab,**
 - **tyres, etc.**
- Where the tyres cannot be covered by a fixed suppression system, an additional portable extinguisher of an appropriate size and type should be carried on the vehicle. The fixed fire suppression system should utilise appropriate extinguishants for the types of fire foreseeable on the plant/vehicle.
- The need for cooling and quenching to prevent reignition should be considered and the fire suppression system should be designed with this in mind where appropriate.
- In addition, portable fire extinguishers should be

provided. They should be selected and installed and maintained in accordance with BS 5306. They should be sited so that they are readily accessible by personnel.

- The design of the fire suppression system should consider the need for additional isolations including the electrical system, engine and other key components.

System Design

- There are two main types of suppression systems as follows:
 - **Direct system:** Direct system utilising detection and discharge tubing installed around the protected areas. Direct systems are used in smaller enclosed / micro-environments where the placement of nozzles is not recommended due to space requirements, e.g.: Compact plant and machinery, SCL spray robots, generators, control panels and electrical cabinet protection.
 - **In-direct system:** In-direct system which uses detection tubing with strategically placed diffusers and nozzles delivering the extinguishing agent to the protected area. Indirect systems are typically used on heavy plant and machinery such as: Material handlers and excavators, forklifts and telehandlers, loading shovels, hydraulics, mining equipment, MEWPs and generators.
- The type of system installed should be as recommended by the equipment manufacturer and/or fire suppression system designer / supplier.
- The design details of the automatic fire suppression installed should be provided to SCS.

Hydraulic Oils/Fluids

- Low flammability hydraulic fluids such as those classed as HFDU in BS EN ISO 12922:2012 should be used in the hydraulic and transmission systems of all plant and equipment used in tunnels.
- The advice of the plant manufacturer and fluid supplier should be sought over the selection of the appropriate fluids for these applications and on the compatibility of pumps, seals, etc. These details should be confirmed with the suppliers in advance before plant and vehicles arrive on site.

Service, Maintenance and Daily checks

- Annual servicing and maintenance arrangements must be in place. Service and maintenance records will be required for SCS audit and fire risk assessment purposes.
- The fire suppression system must be checked daily before use to make sure the system is still pressurised and ready for operational use. The plant/vehicle supplier should ensure that the

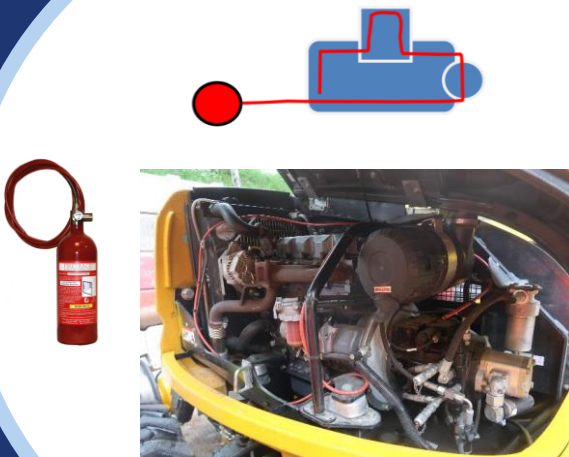
inspection is part of the daily vehicle check sheet provided with the plant/vehicle.

Training

- The suppliers are responsible for ensuring plant and vehicle operators provided with the machine have been trained in how to perform the daily check and how to operate the fire suppression where manual override controls are fitted. Operators should also have training in the operation of portable fire extinguishers where fitted.

Additional Guidance

- BS EN 6164:2019: Health and safety in tunneling in the construction industry – Code of practice
- BS EN 16191:2014 Tunneling Machinery
- BS EN 12111:2014 Tunnelling Machinery
- BS EN ISO 19296:2018 Mining – Mobile machines working underground



Direct System

Simple dry systems utilising a detection and discharge tube installed around the engine.

Recommended for small enclosed / micro-environments, such as: compact plant and machinery, small generators, control panels and electrical cabinet protection.



Indirect System

Indirect systems include dual agent systems and optional features such as battery isolation and engine shut down making them more suitable for use in a tunnel environment.

Description

Steel or rubber tracked 360° excavator.

Plant specific

- 12 month report of thorough examination.
- All lifting accessories 6 month thorough examination and fit for purpose to be used with item of plant.
- Approved lifting points for all lifting duties.
- Rated capacity warning device.
- Specific equipment duty lifting chart must be available in the machine.
- ROPS and FOPS protected cab structure where risk of falling objects.
- Capable of providing telematics data.
- Live anti-theft tracking system.
- Flashing amber beacons.
- 360° visibility criteria to satisfy 1m high at 1m distance, using line of sight, mirrors, cameras (270°/360°) as applicable.
- **When machine is used for deep excavation work consideration should be given to camera mounted boom systems.**
- Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility.
- Seat belts must be fitted and operational with green flashing light to indicate when seat belt worn.
- Locking doors with key.
- Deadman lever must be fitted to prevent starting when lever when not engaged.
- Where access is required at height for security & maintenance purposes, suitable system must be in place to prevent falling from height.
- Track direction indicator.
- Audible white noise travel and reversing alarm (subject to risk assessment).
- Non-tooth buckets to be supplied as default.
- Check valves must be fitted to boom & dipper circuits.
- If used under overhead cables or near obstructions:- Must be fitted with height and slew restrictors with external indication of use and Any Line Open (ALO) working.
- Quick hitch must be automatic double locking and audible warning must be present in the cab whenever the lock is in the release position.
- Pedestrian detection systems are recommended subject to risk assessment.
- The equipment should not be more than 5 years old (recommended).
- Cab and window security guards.
- Engine must comply with minimum NRMM emission standard EU Stage IV (Stage IIIB if <56kW).
- On Hampstead Road Bridge works package only, engine must comply with minimum emission standard EU Stage V.
- NRMM emission details must be checked and registered with SCS Railways prior to deployment.

Photo / illustration



Operator / Manager specific

- CPCS card category:
 - A58A Tracked Excavator 360° below 10 tonne, or:
 - A59A Tracked Excavator 360° above 10 tonne.
- NPORS: N202 - Excavator 360°.
- Cat H driving license.
- CPCS card category if used for lifting:
 - A58C Lifting operations below 10 tonne, or:
 - A59C Lifting operations above 10 tonne.
- NPORS:
 - N100 – Excavator as a Crane.
- Be trained in the use of quick hitch and specific lifting attachments.
- Lifting with excavator operator assessment to be completed (1MC03-SCJ-HS-TEM-S001-000080).
- Plant Operator induction (1MC03-SCJ-HS-TEM-S001-000082).

Plant general

- Must be compliant with the relevant supply regulation and supplied with a declaration of conformity (CE / UKCA depending on date of initial placing on to market).
- Evidence of pre-hire inspection.
- Evidence of regular inspection plus "next service and or inspection due" date sticker.
- Operator instructions and quick hitch manual must be with the machine.
- All safety decals in place and legible.

Description

Lorry mounted suction/vacuum excavator, 26 or 32t GVW c/w either hydraulic or counterbalanced suction arm.

Plant specific

- Must have whole vehicle type approval if registered after October 2014.
- Chapter 8 compliant beacons, reflective chevrons & "Highway/Motorway Maintenance" signage (where applicable).
- Public Highway compliance with C&U regulations – (VED registered, working lights, indicators, registration plates front & rear etc.).
- Current Operator licence displayed.
- Current MOT plating certificate.
- Fleet Operator Recognition Scheme (FORS) - Minimum Silver.
- Live tracking system.
- Seat belts must be fitted and operational.
- 360° visibility criteria to satisfy 1m high at 1m distance, using line of sight, mirrors, cameras (270°/360°) as applicable.
- Reversing camera.
- Daylight running lights.
- Rear work lights.
- White noise reversing alarm.
- Emergency stops fitted side and rear.
- Where access is required at height for security & maintenance purposes, suitable system must be in place to prevent falling from height.
- Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility.
- Isolation switch key.
- Wheel nut indicators.
- Tyre inflation pressure and wheel nut torque figure must be available in the machine.
- Locking doors with key.
- Locking caps / covers to fuel and all other tanks.
- Mandatory safety hearing protection signage.
- All tools must be made of non-conductive material.
- Collars on all pipes must be plastic or metal (NEVER use a Rubber Flexible collar).
- Connection plate (or similar) for all pipes.
- Clips to be reinforced to stop bending of attachment ends.
- Suction nozzles must be made of non-conductive material only.
- Flexi is only to be used for loose materials in vertical orientation provided that they have the secondary retention in place.
- **Ike (rotating nozzles) not be used unless risk assessment in place and approved by the Ground Disturbance Permit Authorised Person.**
- If used under overhead cables or near obstructions:- Must be fitted with height and slew restrictors with external indication of use and Any Line Open (ALO) working (subject to risk assessment and permit restrictions).
- Engine must comply with minimum construction vehicle emission standard Euro VI.

Photo / illustration



Operator / Manager specific

- CPCS card category A78 – Vacuum Excavator with additional subcategory dependent upon unit:
 - A: Trailer - Manual Arm
 - B: Trailer - Semi powered arm
 - C: Non-LGV – Manual arm
 - D: Non-LGV –Semi powered arm
 - E: LGV - Semi powered arm
 - F: LGV – Fully powered arm - Senior
- Second Operator:
 - G: Semi powered arm - second operator (Non - LGV Driver)
 - H: Fully powered arm - second operator (Non - LGV Driver)
- NPORS card category: N021 – Suction Excavator.
- HG / LGV Cat C (class 2) driving license as a minimum.
- Must comply with the Drivers Hours Regulations.
- Plant Operator induction (1MC03-SCJ-HS-TEM-S001-000082) and Operator assessment (1MC03-SCJ-HS-TEM-S001-000080) to be completed.
- A second operator must be in attendance whilst in operation at all times who is fully trained to operate the machine in case of an emergency.
- If fitted with a hydrostatic drive an operator must be present in the driving seat in addition to the operator controlling the machine externally.
- If the remote control is operated through an umbilical cord this must extend to allow the operator to work from a place of safety.

Plant general

- Must be compliant with the relevant supply regulation and supplied with a declaration of conformity (CE / UKCA depending on date of initial placing on to market).
- Evidence of pre-hire inspection and/or periodic maintenance inspection.
- Evidence of regular inspection plus 'next service and or inspection due' date sticker.
- Manufactures and operator instructions must be on the machine.
- All safety decals in place and legible.

Description

Frame, trolley mounted, trailer, skid mounted or containerised generators.

Plant specific

- A Power Site Survey must be carried out by the supplier to ascertain the most suitable equipment required to provide the most efficient solution of power for the site.
- Must have evidence of pre-hire inspection and “next service and or inspection due” date sticker Portable frame mounted up to 3KVA.
- Portable trolley mounted above 3KVA.
- Isolation switch key for generators above 5KVA.
- Electric start for generators above 5KVA.
- Portable generators up to 10KVA do not require an earth electrode.
- Over 10 KVA earth electrodes for reference are required or a suitable earthing point i.e. sheet pile.
- Any physical wiring and connections by the generator company the operatives will need to be assessed by the area SCS authorised person.
- No SY cabling (not approved cable).
- All cables, MDU's etc supplied are subject to the three monthly PAT testing to be carried out.
- All control panels must be lockable to prevent unauthorised tampering.
- Capable of providing telematic data (where possible).
- Use of these generators must comply with HSE guidance “Electrical Safety on Construction Sites”.
- 110v only outlets.
- 110v outputs should be centre tapped to earth, the phase earth voltage should not exceed 63.5 volts.
- Operator instructions and safety instructions should be available with equipment.
- All safety decals in place and legible.
- Towing and lifting weight to be clearly displayed on generator (as applicable).
- 40mm towing eye.
- Wheeled generators labelled each side with tyre inflation pressure and wheel nut torque figure (if applicable).
- Diagram on each trailer showing wheel nut security indicator orientation.
- Unique ID number to be displayed.
- The equipment should not be more than 5 years old (recommended).
- Generator engine must comply with minimum NRMM emission standard EU stage IIIA. On Hampstead Road Bridge works package only the engine must comply with minimum emission standard EU stage V. NRMM emission details must be checked and registered with SCS railways prior to deployment.

Photo / illustration



Operator / Manager specific

- If wheeled generator is over 750KG, you must have the correct driving licence category for towing and not exceed the rated capacity of the towing vehicle.
- Pre 1997; C+E
- Post 1997; B+E and / or C1+E
- Must have suitable familiarisation training including fitted accessories and attachments prior to use of equipment.
- Safety Critical Workers Medical (when towing).
- Do not tow on a public highway with a commercial vehicle as tachograph regulations will apply.
- Plant Operator induction (1MC03-SCJ-HS-TEM-S001-000082).

Plant general

- Must be compliant with the relevant supply regulation and supplied with a declaration of conformity (CE / UKCA depending on date of initial placing on to market).
- Evidence of pre-hire inspection.
- Evidence of regular inspection plus 'next service and or inspection due' date sticker.
- Manufactures and operator instructions must be on the machine.
- All safety decals in place and legible.

Description

Wheeled and towable lighting towers from 5.5m to 9m in height when extended.

Plant specific

- Type approved for use on the UK public Highway in accordance with Directive 2007 / 46 / EC.
- Fitted with AMOSS system.
- Live anti-theft tracking system.
- Overrun Braking system (for items over 40mm towing eye)
- Break away cable.
- Labelled each side with tyre inflation pressure and wheel nut torque figure.
- Level indicators fitted.
- Unique ID number to be displayed
- Noise emission label in compliance with OND 2000/14/EC
- Towing / lifting weight to be clearly displayed
- Canopy to have integral fuel bunding for environmental protection
- Isolation Switch with Key
- Diagram on each trailer showing wheel nut security indicator orientation.
- Wheel chocks should be provided.
- Approved lifting point inspected by supplier prior to delivery.
- Operator instructions must be displayed on the machine.
- All safety decals in place and legible.
- Manufacturer instruction and operator handbook to be with machine.
- If engine below 37KW NRMM is not applicable. If above 37KW please confirm requirements with your site Environmental Advisor.

Photo / illustration



Operator / Manager specific

- If lighting tower is over 750KG, you must have the correct driving licence category for towing and not exceed the rated capacity of the towing vehicle.
- Pre 1997; C+E
- Post 1997; B+E and / or C1+E
- Must have suitable familiarisation training including fitted accessories and attachments prior to use of equipment.
- Plant Operator induction (1MC03-SCJ-HS-TEM-S001-000082) and Operator assessment (1MC03-SCJ-HS-TEM-S001-000080) to be completed.
- Safety Critical Workers Medical (when towing).
- Do not tow on a public highway with a commercial vehicle as tachograph regulations will apply.

Plant general

- Must be compliant with the relevant supply regulation and supplied with a declaration of conformity (CE / UKCA depending on date of initial placing on to market).
- Evidence of pre-hire inspection.
- Evidence of regular inspection plus 'next service and or inspection due' date sticker.
- Manufactures and operator instructions must be on the machine.
- All safety decals in place and legible.

Description

Highway use 180° wheeled excavator/loader diesel powered up to 13tonne.

Plant specific

- 12 month report of thorough examination certificate.
- All lifting accessories 6 month thorough examination and fit for purpose to be used with item of plant.
- Approved lifting points for all lifting duties.
- A machine specific lifting duty chart must be provided.
- Rated capacity warning device.
- Supplied with lights and if used on public highway – compliance with Road Vehicles (Construction & Use) Regulations – registration plate's front & rear etc.
- ROPS and FOPS cab structure where risk of falling objects.
- Live anti-theft tracking system.
- Live tracking system / telematic data (if available).
- Flashing amber beacons.
- 360° visibility criteria to satisfy 1m high at 1m distance, using line of sight, mirrors, cameras (270°/360°) as applicable.
- Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility.
- Seats belts must be fitted and operational with green flashing light to indicate when seat belt worn.
- Audible white noise travel and reversing alarm (subject to risk assessment).
- Locking doors with key.
- Where access is required at height for security & maintenance purposes, suitable system must be in place to prevent falling from height.
- Wheel nut indicators.
- Labelled each side with tyre inflation pressure and wheel nut torque figure.
- Buckets to be supplied without teeth as default.
- Check valves must be fitted to boom & dipper circuits.
- Tooth guard for use during travel on public highway.
- Isolation controls by a secondary device with seat rotation.
- Pedestrian detection systems are recommended subject to risk assessment.
- The equipment should no be more than 5 years old (recommended).
- Engine must comply with minimum NRMM emission standard EU Stage IV (Stage IIIB if <56kW).
- On Hampstead Road Bridge works package only, engine must comply with minimum emission standard EU Stage V.
- NRMM emission details must be checked and registered with SCS Railways prior to deployment.

Photo / illustration



Operator / Manager specific

- CPCS card category:
 - A10 - Excavator 180° below 5t or
 - A12Excavator 180° above 5t
- NPORS
 - N201 – Excavator 180°
 - N100 – Excavator as a Crane (only if used for lifting)

If used for lifting:

- If using a Excavator 180° for lifting, the operator must have a CPCS card category A58C – Lifting with Excavators below 10 tonnes or A59C - Lifting with Excavators above 10 tonnes.
- Lifting with excavator operator assessment to be completed (1MC03-SCJ-HS-TEM-S001-000080).
- Be trained in the use of fitted quick hitch and specific lifting attachments.
- Must have a current relevant driving license (Category B) if driving on the public highway and be authorised by the project.
- Plant Operator induction (1MC03-SCJ-HS-TEM-S001-000082).

Plant general

- Must be compliant with the relevant supply regulation and supplied with a declaration of conformity (CE / UKCA depending on date of initial placing on to market).
- Evidence of pre-hire inspection.
- Evidence of regular inspection plus 'next service and or inspection due' date sticker.
- Manufactures and operator instructions must be on the machine.
- All safety decals in place and legible.

If used for lifting: A machined specific lifting duty chart must be provided

Description

360° wheeled excavator.

Plant specific

- 12 month report of thorough examination.
- All lifting accessories 6 month report of thorough examination and fit for purpose to be used with item of plant.
- Approved lifting points for all lifting duties.
- Rated capacity warning device.
- Supplied with lights and if used on public highway – compliance with Road Vehicles (Construction & Use) Regulations – registration plate's front & rear etc.
- Protected ROPS or FOPS cab structure where risk of falling objects.
- Capable of providing telematic data.
- Live anti-theft tracking system.
- Flashing amber beacons.
- 360° visibility criteria to satisfy 1m high at 1m distance, using line of sight, mirrors, cameras (270°/360°) as applicable.
- **When machine is used for deep excavation work consideration should be given to camera mounted boom systems.**
- Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility.
- Seat belts must be fitted and operational with green flashing light to indicate when seat belt worn.
- Audible white noise travel and reversing alarm.
- Locking doors with key.
- Where access is required at height for security & maintenance purposes, suitable system must be in place to prevent falling from height.
- Wheel nut indicators.
- Labelled each side with tyre inflation pressure and wheel nut torque figure.
- Buckets to be supplied without teeth as default.
- Visible indicator of front or back for wheels.
- Tooth guard for use during travel on public highway.
- Check valves must be fitted to boom & dipper circuits.
- Isolation controls by a secondary device.
- The equipment should not be more than 5 years old (recommended).
- If used under overhead cables or near obstructions:- Must be fitted with height and slew restrictors with external indication of use and Any Line Open (ALO) working.
- Pedestrian detection systems are recommended subject to risk assessment.
- A machine specific lifting duty chart must be provided (if used for lifting).
- Engine must comply with minimum NRMM emission standard EU Stage IV (Stage IIIB if <56kW).
- On Hampstead Road Bridge works package only, engine must comply with minimum emission standard EU Stage V.
- NRMM emission details must be checked and registered with SCS Railways prior to deployment.

Photo / illustration



Operator / Manager specific

- CPCS card category:
 - A58B Wheeled Excavator 360° below 10t, or:
 - A59B Wheeled Excavator 360° above 10 tonnes.
- NPORS – N202 Excavator 360°
- If used for lifting:**
- CPCS card category:
 - A58C – Lifting with excavators below 10 tonnes, or:
 - A59C – Lifting with Excavators above 10 tonnes.
- NPORS - N100 Excavator as a Crane.
- Trained in use of any fitted quick hitch and attachments and height and slew restrictors.
- Must have a current relevant driving license (Category B) if driving on the public highway and be authorised by the project.
- Plant Operator induction (1MC03-SCJ-HS-TEM-S001-000082) and Operator assessment (1MC03-SCJ-HS-TEM-S001-000080) to be completed.

Plant general

- Must be compliant with the relevant supply regulation and supplied with a declaration of conformity (CE / UKCA depending on date of initial placing on to market).
- Evidence of pre-hire inspection.
- Evidence of regular inspection plus 'next service and or inspection due' date sticker.
- Manufactures and operator instructions must be on the machine.
- Quick hitch manual to be with the machine.
- All safety decals in place and legible.

Description

Mobile crane, mounted on wheels, which can travel to the position from which a lift is to be carried out and can then be fitted with additional equipment to enhance its lifting capacity.

Plant specific

- 12 month report of thorough examination.
- 6 monthly report thorough examination for crane (if for lifting persons).
- 6 monthly report of thorough examination for all lifting accessories carried.
- Capable of providing telematics data (where possible).
- FOPS Cab structure.
- Rated Capacity Indicator (RCI).
- Fitted and operational audible or visual overload system.
- Over hoist limit device installed.
- Operational manual with load charts to be available with machine.
- 360° visibility criteria to satisfy 1m high at 1m distance, using line of sight, mirrors, cameras (270°/360°) as applicable.
- Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility.
- Where access is required at height for security & maintenance purposes, suitable handrails must be in place to prevent falling from height.
- Flashing amber beacon.
- Audible white noise reversing alarm.
- Wheel nuts indicators.
- Labelled each side with tyre inflation. pressure and wheel nut torque figure.
- Crane fitted with anemometer to monitor in service wind speeds.
- Locking door with keys provided.
- Aircraft warning lights: In the vicinity of aerodromes and for cranes > 150m AGL follow requirements of CAA CAP 1096.
- Slew, jib height and radius restrictors if working in the vicinity of overhead power lines, railways, adjacent live traffic, etc.
- Load bearing hydraulic cylinders fitted with check valves.
- Protective mesh must be in place to side of cab on jib side if window is opening type.
- Hook fitted with safety catch.
- Fire extinguisher in cab if only one exit.
- Sectional / lightweight or circular outrigger pads if manually handled to reduce risk to personnel.
- Engine must comply with minimum NRMM emission standard EU Stage IV.
- On Hampstead Road Bridge works package only, engine must comply with minimum emission standard EU Stage V.
- NRMM emission details must be checked and registered with SCS Railways prior to deployment.

Photo / illustration



Man-riding requirements

- Ability to restrict the working speed of all crane functions to 0.5m/s.
- Control levers return to neutral automatically when released.
- SWL of crane configuration in use at least twice the rated capacity of the carrier.
- Power lowering facility fitted to crane. If not, free – fall capability must be locked out.
- Carrier hoisting and lowering ropes minimum diameter of 8mm.

Operator / Manager specific

- CPCS Blue card with category of crane to be operated A60C – All duties, (A-Blocked Duty only, B-Pick and Carry Duties only).
- NPORS Card with category N101 - Mobile Crane.
- If Red (temporary) Card, risk assessment required on details and hours of operator experience (for non-contract lifts).
- Minimum of Cat C driving licence when unit over 7.5tonne GVW.
- Lifting Operators Appointment / Assessment (1MC03-SCJ-HS-TEM-S001-000108) only when employed by SCS JV / subbies.

Plant general

- Must be compliant with the relevant supply regulation and supplied with a declaration of conformity (CE / UKCA depending on date of initial placing on to market).
- Evidence of pre-hire inspection.
- Evidence of regular inspection plus 'next service and or inspection due' date sticker.
- Manufactures and operator instructions must be on the machine.
- All safety decals in place and legible.

Description

Mobile crane, mounted on crawler tracks, comprising a fully rotating crane superstructure connected, through a slewing ring or race, to a track-laying undercarriage.

Plant specific

- 12 month report of thorough examination certificate.
- 6 month report of thorough examination when lifting people.
- 6 month report of thorough examination certificate for all lifting accessories carried.
- Capable of providing telematics data (where possible).
- 360° visibility criteria to satisfy 1m high at 1m distance, using line of sight, mirrors, cameras (270°/360°) as applicable.
- Rated capacity indicator (RCI).
- Flashing amber beacon.
- Fitted with an audible or visual overload warning system.
- White noise “travelling or tracking” alarm.
- Slew alarms (visible / audible white noise).
- Door lock keys provided.
- Aircraft warning lights: In the vicinity of aerodromes and for cranes > 150m AGL follow requirements of CAA CAP 1096.
- Slew, jib height and radius restrictors of working in the vicinity of overhead power lines, railways, adjacent live traffic, etc.
- Hook block over hoist cut-out facility.
- Boom hoist cut-out facility.
- Handrails fitted to running boards and crane upper structure.
- Load bearing hydraulic cylinders fitted with check valves.
- Crane fitted with anemometer or other device to monitor in service wind speeds.
- Fire extinguishers in cab if only one exit.
- Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility.
- Perimeter edge protection, handrails, etc. to body of crane where access required.
- All D / Bow shackles used must be the Bolt Anchor Type (i.e. bolt, nut and pin).
- Engine must comply with minimum NRMM emission standard EU Stage VI.

Photo / illustration



Man-riding requirements

- Carrier hoisting and lowering ropes minimum diameter of 8mm.
- Hook fitted with safety catch.
- Ability to restrict the working speed of all crane functions to 0.5m/s.
- Control levers return to neutral automatically when released.
- SWL of crane configuration in use must be at least twice the rated capacity of the carrier + weight of the carrier + weight of lifting accessories (inc. hook block).
- Power lowering facility fitted to crane. If not, free- fall capability must be locked out.

Operator / Manager specific

- CPCS card category:
 - Blue Card A02 Crawler crane over 10 tonnes, plus A66D Compact Crane 360-Pick and carry.
 - If Red (temporary) card, risk assessment required on details and hours of operator experience.
- NPORS card category: N013 – Crawler Crane
- Familiarisation training for the specific model being used
- Plant Operator induction (1MC03-SCJ-HS-TEM-S001-000082)

Plant general

- Must be compliant with the relevant supply regulation and supplied with a declaration of conformity (CE / UKCA depending on date of initial placing on to market).
- Evidence of pre-hire inspection.
- Evidence of regular inspection plus 'next service and or inspection due' date sticker.
- Manufactures and operator instructions must be on the machine.
- All safety decals in place and legible.

Description

Portable air compressors.

Plant specific

- All current pressure systems regulations certification to be in place.
- Unique ID number to be displayed.
- Mandatory safety hearing protection.
- Towing/lifting weight to be clearly displayed.
- A canopy to have integral fuel bunding for environmental protection.
- All hoses to be supplied with 2 whip checks.
- Fit with air fuses.
- All safety decals in place and legible.
- Wheel chocks should be provided.
- Isolation switch with key.
- Live anti-theft tracking system.
- Approved lifting point inspected by supplier prior to delivery.

Road Towable:

- Type approved for use on the UK public Highway in accordance with Directive 2007 / 46 / EC.
- Overrun braking system (for items over 750 Kg) .
- 40mm towing eye.
- Break away cable.
- Labelled each side with tyre inflation pressure and wheel nut torque figure.
- Wheel nut indicators.
- Engine must comply with minimum NRMM emission standard EU Stage IV (Stage IIIB if <56kW).
- On Hampstead Road Bridge works package only, engine must comply with minimum emission standard EU Stage V.
- NRMM emission details must be checked and registered with SCS Railways prior to deployment

Photo / illustration



Operator / Manager specific

- If compressor is over 750Kg and road towable, driver must have the correct drivers licence category for towing (pre 1997 - C+E, post 1997 – B+E and / or C1+E).
- Demonstrable training and experience in operation of compressor/air system.
- To be familiar with machine and HAVS monitoring requirements.
- Plant Operator induction (1MC03-SCJ-HS-TEM-S001-00082).

Plant general

- Must be compliant with the relevant supply regulation and supplied with a declaration of conformity (CE / UKCA depending on date of initial placing on to market).
- Evidence of pre-hire inspection.
- Evidence of regular inspection plus 'next service and or inspection due' date sticker.
- Manufactures and operator instructions must be on the machine.
- All safety decals in place and legible.

Description

Self-propelled, diesel powered articulated or rigid dump truck from 13t to 50t.

Plant specific

- Supplied with lights and if used on public highway – compliance with Road Vehicles (Construction & Use) Regulations – registration plate's front & rear etc.
- Live tracking system / telematics.
- Flashing amber beacons.
- ROPS & FOPS Cab structure c/w safety glass.
- Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility
- Locking doors with key.
- Seat belts must be fitted and operational with green flashing light to indicate when seat belt worn.
- Anti-tilt device (risk based).
- Articulation lock must be fitted and operational.
- 360° visibility criteria to satisfy 1m high at 1m distance, using line of sight, mirrors, cameras (270°/360°) as applicable.
- White noise reversing alarm to be fitted & operational.
- Mechanical prop fitted under body (maintenance purposes only).
- Locking caps / covers to fuel and all other tanks.
- Isolation switch key.
- Tipping linkage – must have no excessive play.
- Where access is required at height for security and maintenance purposes, suitable system must be in place to prevent falling from height.
- Pedestrian detection systems are recommended subject to risk assessment.
- The equipment should not be more than 5 years old (recommended).
- Engine must comply with minimum NRMM emission standard EU Stage IV (Stage IIIB if <56kW).
- On Hampstead Road Bridge works package only, engine must comply with minimum emission standard EU Stage V.
- NRMM emission details must be checked and registered with SCS Railways prior to deployment.

Photo / illustration



Operator / Manager specific

- CPCS card category:
 - A56 – Dump truck articulated chassis
 - A= up to 15 tonnes
 - B= all sizes (senior)
 - A57 – Dump truck rigid chassis
 - A= Up to 15 tonnes
 - B= Up to 50 tonnes
 - C= All sizes tracked (Senior)
 - D= All sizes tracked (separate)
- NPORS card category:
 - N205 – Rear tipping dumper
- Cat B driving licence as a minimum.
- Plant Operator induction (1MC03-SCJ-HS-TEM-S001-000082) and Operator assessment (1MC03-SCJ-HS-TEM-S001-000080) to be completed.

Plant general

- Must be compliant with the relevant supply regulation and supplied with a declaration of conformity (CE / UKCA depending on date of initial placing on to market). Evidence of pre-hire inspection.
- Evidence of regular inspection plus 'next service and or inspection due' date sticker.
- Manufactures and operator instructions must be on the machine.
- Quick hitch manual to be with the machine.
- All safety decals in place and legible.

Description

Diesel powered concrete slip form paving machine primarily to form concrete drainage and stepped central highway barriers.

Plant specific

- 12 monthly report of thorough examination certificate.
- 6 monthly report of thorough examination within the past 6 months for all lifting accessories carried.
- Flashing amber beacons front & rear at a height not to interfere with driver visibility.
- White NoiseTravel / movement alarm fitted (working and audible at 10m for 5 seconds) (subject to risk assessment).
- 360° visibility criteria to satisfy 1m high at 1m distance, using line of sight, mirrors, cameras (270°/360°) as applicable.
- White Noise audible reversing alarm (subject to risk assessment).
- "Elephant ears" rubber guards fitted to both sides of concrete feeder hopper.
- Fixed hinged guard and access steps across concrete feeder hopper and fixed hinged guards to inclined auger.
- Steps fitted to access above guards and to mould and driving platforms.
- Handrail to sides of inclined auger to facilitate use of access steps.
- Podium steps for access to inclined auger access steps.
- Fixed guards on horizontal auger incorporating interlock isolation switches to immobilise auger when guards are removed.
- Fixed access ladder to mould & driving platforms.
- Access platform with guardrail around horizontal auger to access front of auger for cleaning and maintenance.
- Rubber track bumper guards.
- Adequate task working lights.
- Pressure washer to be available for cleaning off.
- Guard rails around mould platform & driving platform (not chains).
- Towing facility to facilitate for lighting sets.
- Guards on conveyors.
- Storage facilities for hand tools and lubricants etc.
- Emergency stop button.
- Isolation switch with key.
- 2-way radio communication system.
- Adjusting compensation plate.
- GPS guidance system.
- Engine must comply with minimum NRMM emission standard EU Stage IV (Stage IIIB if <56kW).
- On Hampstead Road Bridge works package only, engine must comply with minimum emission standard EU Stage V.
- NRMM emission details must be checked and registered with SCS Railways prior to deployment.

Photo / illustration



Operator / Manager specific

- Evidence of appropriate training for extrusion machines.
- Evidence of familiarisation training for the type of machine to be operated.
- Must have evidence of pressure washer training.
- Evidence of pressure washer training.
- Cat B driving licence
- Plant Operator induction (1MC03-SCJ-HS-TEM-S001-000082)

Plant general

- Must be compliant with the relevant supply regulation and supplied with a declaration of conformity (CE / UKCA depending on date of initial placing on to market).
- Evidence of pre-hire inspection.
- Evidence of regular inspection plus 'next service and or inspection due' date sticker.
- Manufacturer instruction and operator handbook must be on the machine.
- All safety decals in place and legible.

Description

Trailer or vehicle mounted diesel driven concrete pump.

Plant specific

- 12 month report of inspection / test certificate to be provided.
- Mirrors (including Class V & VI) / CCTV to satisfy 1m in all directions.
- Flashing amber beacon.
- Audible white noise reversing alarm (subject to risk assessment).
- Locking doors with key.
- Locking caps / covers to fuel and all other tanks.
- Wheel nut indicators.
- Labelled each side with tyre inflation pressure and wheel nut torque figure.
- Emergency stop button.
- Independent isolation system with key.
- Fitted with plunger type grout pot lids.
- Hopper grate to be fitted with interlock mechanism.
- Ball catcher fitted to discharge end.
- Portable 'Chocks' / Wheel Stops to be manufactured to place on the ground behind the concrete pump to prevent the concrete wagon reversing into the hopper.
- Engine must comply with minimum NRMM emission standard EU Stage IV (Stage IIIB if <56kW).
- On Hampstead Road Bridge works package only, engine must comply with minimum emission standard EU Stage V.
- NRMM emission details must be checked and registered with SCS Railways prior to deployment.

If trailer mounted:

- Type approved for use on the UK public Highway in accordance with Directive 2007/46/EC.
- Overrun Braking System.
- 40mm towing eye.
- Break away cable.
- Wheel nut indicators.

If vehicle mounted:

- Must have whole vehicle type approval if registered after October 2014.
- Chapter 8 compliant beacons, reflective chevrons and 'Highway/Motorway Maintenance' signage.
- Public Highway compliance with C&U regulations – (VED registered, working lights, indicators, registration plate's front & rear etc.).
- Current Operator "O" licence displayed.
- Current MOT plating certificate.
- Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility.
- A fire extinguisher in cab if only one exit.
- Capable of providing telematics data.
- Fleet Operator Recognition Scheme (FORS) – Minimum Silver.

Photo / illustration



Operator / Manager specific

- CPCS Card with category A06 – Truck mounted boom; A44 – Trailer mounted.
- NPORS card category:
 - N211 - Concrete Pump Mobile
 - N721 - Static Concrete Placing Boom

If vehicle mounted:

- Appropriate licence for the class of vehicle to be operated (Lorry mounted pumps).
- Shall hold a current Driver CPC qualification.

If trailer mounted:

- Must have correct drivers licence category for towing (pre-1997 – C + E, post 1997 – B+E and / or C1 + E).
- Plant Operator induction (1MC03-SCJ-HS-TEM-S001-000082) and Operator assessment (1MC03-SCJ-HS-TEM-S001-000080) to be completed.

Plant general

- Must be compliant with the relevant supply regulation and supplied with a declaration of conformity (CE / UKCA depending on date of initial placing on to market).
- Evidence of pre-hire inspection.
- Evidence of regular inspection plus 'next service and or inspection due' date sticker.
- Operator instructions must be on the machine.
- All safety decals in place and legible.

Description

Self-propelled, diesel powered forward or side tipping dumper up to 6t.

Plant specific

- Supplied with lights and if required for use on the public highway compliance with C&U regulations (VED registered, working lights, indicators, registration plate's front & rear etc.)
- Flashing amber beacon.
- Roll Over Protection Structure (ROPS) (fully deployed on delivery).
- FOPS protected cab structure where risk of falling objects.
- Capable of providing telematics data (9 tonner and over).
- Live anti-theft tracking system.
- 360° visibility criteria to satisfy 1m high at 1m distance, using line of sight, mirrors, cameras (270°/360°) as applicable.
- Seat belts must be fitted and operational with green flashing light to indicate when seat belt worn.
- Must be fitted with vehicle collision avoidance system (VCAS).
- White noise reversible alarm.
- Mechanical prop fitted under body (maintenance purposes only).
- Ratchet & release button type handbrake to be fitted.
- Cab steps and grab handles to ensure 3 points of contact is achievable and high visibility.
- Locking caps / covers to fuel and all other tanks.
- Locking doors with key.
- Wheel nut indicators.
- Wheel chocks.
- Labelled each side with tyre inflation pressure a wheel nut torque figure.
- Isolation switch with key.
- Pedestrian detection systems are recommended subject to risk assessment.
- The equipment should not be more than 5 years old (recommended).
- Tow hitch if fitted must have correct pin with chain attached to dumper.
- Engine must comply with minimum NRMM emission standard EU Stage IV (Stage IIIB if <56kW).
- On Hampstead Road Bridge works package only, engine must comply with minimum emission standard EU Stage V.
- NRMM emission details must be checked and registered with SCS Railways prior to deployment.

If towing required:

- Must have approved towing hitch fitted and if towing on the public highway, facility for towing electrics.

Photo / illustration



Operator / Manager specific

- CPC card category
 - A09A – Forward tipping dumper – wheeled ;
 - A09B – Forward Tipping Dumper - tracked.
- NPORS card category:
 - N204 - Forward Tipping Dumper.
- If Dual View Dumper must have proof of familiarisation training.
- Must have a current relevant driver's license (Category B) if driving on the public highway and be authorised by the project.
- For dumpers 3.5 – 7.5 tonnes gross vehicle weight the operator / driver must be aged 18 years or over.
- For dumpers over 7.5 tonnes gross vehicle weight the operator / driver must be aged 21 years or over.
- Plant Operator induction (1MC03-SCJ-HS-TEM-S001-000082) and Operator assessment (1MC03-SCJ-HS-TEM-S001-000080) to be completed.

Plant general

- Must be compliant with the relevant supply regulation and supplied with a declaration of conformity (CE / UKCA depending on date of initial placing on to market).
- Evidence of pre-hire inspection.
- Evidence of regular inspection plus 'next service and or inspection due' date sticker.
- Manufacture Instruction and operator instructions must be on the machine.
- All safety decals in place and legible.

Description

Flatted wagon, diesel engine, 6 or 8 wheel configuration up to 32 tonne GVW with a fixed mounted telescopic loading crane

Plant specific

- Chapter 8 compliant beacons, reflective chevrons and 'Highway / Motorway Maintenance' signage (if applicable).
- Supplied with lights and if used on public highway – compliance with Road Vehicles (Construction & Use) Regulations – registration plate's front & rear etc.
- Must have whole vehicle type approval if registered after Oct' 14.
- 12 monthly report of thorough examination.
- 6 month report of thorough examination for lifting accessories.
- Current Operator licence displayed.
- Current MOT certificate.
- The lorry should be Fleet Operator Recognition Scheme (FORS) - Minimum Silver.
- Safe load indicator or rated capacity indicator.
- Seat belts must be fitted and operational.
- Daylight running lights and rear work lights.
- Lifting duty chart to be displayed or available in the cab.
- Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility.
- Isolation switch with key.
- Locking doors with key.
- Locking caps / covers to fuel and all other tanks.
- Fire extinguisher in cab.
- Wheel nut indicators.
- Labelled each side with tyre inflation pressure and wheel nut torque figure.
- In cab height warning indicator.
- Reversing camera & Audible white noise reversing alarm (subject to risk assessment).
- Safe working load (SWL) to be clearly marked.
- Load bearing hydraulic cylinders fitted with check valves.
- Full outrigger deployment system to comply with EN 12999/A3.
- Outrigger spreader pads and storage box.
- Boom above horizontal audible warning.
- Engine must comply with minimum construction vehicle emission standard Euro VI.
- If using stabilisers please comply with the SCS Use of Lorry Loader Cranes Standard (1MC03-SCJ-HS-GDE-S001-000052). **Note: Lorry Loaders fitted with hydraulic tilting and hydraulic deployment stabiliser legs which rotate across the position of the fixed controls are banned from all SCS worksites (this includes their use with remote controls, and regardless of any other proposed alternative means of unloading).**

Photo / illustration



Operator / Manager specific

- Minimum of Cat C driving licence when unit over 7.5t GVW.
- Shall hold the current Driver CPC qualification.
- CPCS card category A36 – Lorry Loader including relevant endorsements for attachment. Hook – A, Clamshell Bucket – B or Hydraulic Clamp – C;
- NPORS card category:
 - N107 – Lorry Loader
- ALLMI lorry loader operator certification.

NOTE: Operator cannot undertake slinging duties.

- Plant Operator induction (1MC03-SCJ-HS-TEM-S001-000082) and Operator assessment (1MC03-SCJ-HS-TEM-S001-000080) to be completed only if employed by SCS JV / subbie.

Plant general

- Must be compliant with the relevant supply regulation and supplied with a declaration of conformity (CE / UKCA depending on date of initial placing on to market).
- Evidence of pre-hire inspection.
- Evidence of regular inspection plus 'next service and or inspection due' date sticker.
- Manufactures Handbook and Operator instructions must be on the machine.
- All safety decals in place and legible.

Description

Boom or Scissor type MEWP's self propelled or push along.

Plant specific

- Must comply to BS EN 280, BS8460, HSE GEIS6.
- 6 month report of thorough examination certificate.
- Power failure self lowering system.
- Flashing amber beacon.
- Isolation switch with key.
- Operating controls functions must be clearly marked.
- Audible white noise travel alarm (subject to risk assessment).
- Direction of travel must be clearly indicated.
- Maximum gradient for safe operation must be displayed.
- Maximum permitted wind speed for safe operation must be displayed in the platform.
- Outrigger / wheel loading details and ground bearing pressure must be known.
- Storage or handling of materials at height (i.e. duct handling) should utilise manufacturer approved material handling systems i.e. sky rack systems.
- Safe Working Load to be clearly marked.
- Locking caps / covers to fuel and all other tanks.
- Outrigger pads with suitable handle should be provided based upon risk assessment (E.g., use of 3a MEWPs).
- All self propelled MEWP's must have shrouded controls. Please note that some MEWP models are can't be fitted with shrouded controls e.g. COM8/COM14.
- Bump protection (subject to risk assessment e.g. these should be used in a closed environment or when the task demands).
- Height or Slew restriction as required based upon risk assessment
- The equipment should not be more than 5 years old (recommended).
- Engine must comply with minimum NRMM emission standard EU Stage IV (Stage IIIB if <56kW).
- On Hampstead Road Bridge works package only, engine must comply with minimum emission standard EU Stage V.
- NRMM emission details must be checked and registered with SCS Railways prior to deployment. If engine below 37KW NRMM emission standard is not applicable.

Boom Type

- Boom functions to be able to be isolated using a key or physical lock as applicable.
- Intelligent secondary guarding device is mandatory for all category 3b MEWP's.
- Where intelligent secondary guarding is not compatible resort to the lower standard of secondary guarding.
- Harness anchorage points in boom platform.
- Object detection / blind spot monitoring sensor system to enhance plant pedestrian segregation.
- Intelligent anchor point – i.e. Guaranteed harness connection connected to machine elevation (subject to risk assessment).

Vehicle Mounted

- Cab steps and handles painted in high visibility paint.
- Labelled each side with tyre inflation pressure and wheel nut torque figures.
- Supplied with lights and, if used on public highway, compliant to Road Vehicles (Construction & Use) Regulations – registration plates front and rear.

Photo / illustration



Operator / Manager specific

Standard Competency Requirements

- CPC card with category of MEWP to be operated: A25 – scissor; A26A – Boom; A27 – Mast climber

OR

- IPAF Certification: 1a – Static Vertical; 1b – Static Boom; 3a – Mobile Vertical; 3b – Mobile Boom

OR

- NPORS card with category of MEWP to be operated: N109 – scissor; N108 – Boom;

High Risk Works Competency Requirements – (i.e. close work under bridge decking / next to steel girders etc).

- IPAF Certification: 1a+ Static Vertical; 1b+ Static Boom; 3a+ Mobile Vertical; 3b+ Mobile Boom.
- IPAF - PAV -Push Along Vertical card.
- Training use of harnesses as appropriate – i.e. IPAF Harness Use & Inspection Course.
- Familiarisation training for the basket controls and emergency recovery procedures.
- Plant Operator induction (1MC03-SCJ-HS-TEM-S001-000082) and Operator assessment (1MC03-SCJ-HS-TEM-S001-000080) to be completed.

MEWPs for Managers Training (Mandatory)

- IPAF MEWP for Managers Training to be delivered to “MEWP Responsible Persons” & “MEWP Coordinators”.

Plant general

- Must be compliant with the relevant supply regulation and supplied with a declaration of conformity (CE / UKCA depending on date of initial placing on to market).
- Evidence of pre-hire inspection.
- Evidence of regular inspection plus “next service and or inspection due” date sticker.
- Operator instructions must be with the machine.
- All safety decals in place and legible.

Description

0.75t – 8t Rubber or Steel tracked 360° mini excavator.

Plant specific

- 12 month LOLER thorough examination certificate.
- All lifting accessories 6 month thorough examination and fit for purpose to be used with item of plant.
- An approved lifting point for all lifting duties.
- Rated capacity warning device.
- Check valves must be fitted to boom & dipper circuits.
- ROPS and FOPS cab structure where risk of falling objects.
- Capable of providing telematics data (where available).
- Live anti-theft tracking system.
- Flashing amber beacons.
- 360° visibility criteria to satisfy 1m high at 1m distance, using line of sight, mirrors, cameras (270°/360°) as applicable.
- Reversing cameras to be used based on risk *e.g. location*.
- Audible white noise travel and reversing alarm (subject to risk assessment).
- Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility.
- Seat belts must be fitted and operational with visible indication of seat belt engagement or machine isolation when not.
- Locking doors with key.
- Where access is required at height for security & maintenance purposes, suitable system must be in place to prevent falling from height.
- Deadman lever must be fitted to prevent starting when lever not engaged.
- Toothless buckets to be supplied as default.
- Pedestrian detection systems are recommended subject to risk assessment.
- Equipment should not be more than 5 years old (recommended).
- Engine must comply with minimum NRMM emission standard EU Stage IV (Stage IIIB if <56kW).
- On Hampstead Road Bridge works package only, engine must comply with minimum emission standard EU Stage V.
- NRMM emission details must be checked and registered with SCS Railways prior to deployment.

If Quick hitch fitted: (Mandatory ≥5T)

- Must be automatic double locking.
- Manufacturer's operating instruction in cab.
- Quick hitch alarm.

If used under overhead cables or obstructions:

- Must be fitted with height and slew restrictors and indication on machine with external indication of use and Any Line Open (ALO) working.

Photo / illustration



Operator / Manager specific

- CPCS card category A58A (<10t)

NPORS:

- N202 Excavator 360°
- Cat H driving licence

If used for lifting:

- CPCS card category A58C - Lifting with Excavators.
- NPORS card category N100 – Excavator as a Crane.
- Plant Operator induction (1MC03-SCJ-HS-TEM-S001-000082) and Operator assessment (1MC03-SCJ-HS-TEM-S001-000080) to be completed.
- Trained in use of any fitted quick hitch and attachments and height and slew restrictors.

Plant general

- Must be compliant with EC Machinery Directive 2006 / 42 /EC and supplied with a declaration of conformity.
- Evidence of pre-hire inspection.
- Evidence of regular inspection plus 'next service and or inspection due' date sticker.
- Operator instructions must be on the machine.
- All safety decals in place and legible.

If used for lifting: A machine specific lifting duty chart must be provided.

Description

Self-contained diesel powered mobile crushing plant with an output of up to 100 tonnes per hour.

Plant specific

- Operating control functions clearly marked.
- Remote control capability.
- Isolation switch with key
- Capable of providing telematics data (where available).
- Audible white noise travel and reversing alarm (subject to risk assessment).
- 360° visibility criteria to satisfy 1m high at 1m distance, using line of sight, mirrors, cameras (270°/360°) as applicable.
- All exposed, contactable, moving parts fully guarded.
- Where access is required at height for security & maintenance purposes, suitable handrails must be in place to prevent falling from height.
- Guards to be fitted with interlocks to prevent operation with guards removed.
- Main control panel lockable by multi locking arrangements to facilitate safe maintenance.
- Emergency stop controls to be available at various locations around the machine.
- Trip wire required along the conveyor at any sections not fully guarded.
- Working platform on machine for maintenance and inspection to be in good order with edge protection intact.
- Procedure for clearing blockages from the hopper which does not require a person to enter the hopper to be in place.
- Water mist dust suppression fitted and operational.
- Automatic greasing.
- Crusher to be registered with Environment Agency / Scottish Environment Protection Agency.
- Effective belt scrapers to prevent build up of material on conveyor.
- If loading buckets are used, ensure that they are compatible with the capacity of the crusher.
- Ramp to loading hopper to be effectively banded.
- When crushing: physical exclusion *e.g. 2m high HERAS panels to be erected around the crushing area.*
- Physical exclusion, e.g. 2m high mesh panels to be erected around the crushing area.
- Ensure minimum 5m physical exclusion zone around crushing area.
- Engine must comply with minimum NRMM emission standard EU Stage IV (Stage IIIB if <56kW).
- On Hampstead Road Bridge works package only, engine must comply with minimum emission standard EU Stage V.
- NRMM emission details must be checked and registered with SCS Railways prior to deployment.

Photo / illustration



Operator / Manager specific

- CPCS card category A42 – Crusher.
- NPORS card category N207 – Crusher.
- Cat B driving licence.
- Specific Emergency Recovery / Rescue Procedures must be established and effectively communicated prior to works commencing.
- Plant Operator induction (1MC03-SCJ-HS-TEM-S001-000082) and relevant Operator assessment (1MC03-SCJ-HS-TEM-S001-000080) to be completed.

Plant general

- Must be compliant with the relevant supply regulation and supplied with a declaration of conformity (CE / UKCA depending on date of initial placing on to market).
- Evidence of pre-hire inspection.
- Evidence of regular inspection plus 'next service and or inspection due' date sticker.
- Manufacturers and operator instructions must be on the machine.
- All safety decals in place and legible.

Description

Self-propelled diesel ride on compaction roller from 1t to 13t.

Plant specific

- Supplied with lights and if used on public highway – compliance with Road Vehicles (Construction & Use) Regulations – registration plate's front & rear etc.
- Flashing amber beacon.
- Cab care system (if fitted with cab).
- Capable of providing telematics data (where possible).
- Small rollers ROPS (where no cab fitted).
- Large machines ROPS and FOPs cab structure where risk of falling objects.
- Fitted with front & rear scraper bars on drum(s).
- Integral water supply to drum.
- Locking doors with key – for all glazed cab machines.
- Live anti-theft tracking system.
- Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility.
- Seat belts must be fitted and operational and green flashing light to indicate when seat belt worn.
- 360° visibility criteria to satisfy 1m high at 1m distance, using line of sight, mirrors, cameras (270°/360°) as applicable.
- White noise reversing alarm.
- Locking caps / covers to fuel and all other tanks.
- Isolation switch with key.
- Under seat starter / isolator pressure switch.
- Pedestrian detection systems are recommended subject to risk assessment.
- The equipment should not be more than 5 years old (recommended).
- Engine must comply with minimum NRMM emission standard EU Stage IV (Stage IIIB if <56kW).
- On Hampstead Road Bridge works package only, engine must comply with minimum emission standard EU Stage V.
- NRMM emission details must be checked and registered with SCS Railways prior to deployment.

Photo / illustration



Operator / Manager specific

- CPCS card category A31 – Ride on roller.
- NPORS card category N214 – Road roller.
- Must have a current relevant driving licence (Category B or G) if driving on the public highway.
- Plant Operator induction (1MC03-SCJ-HS-TEM-S001-000082) and Operator assessment (1MC03-SCJ-HS-TEM-S001-000080) to be completed.

Plant general

- Must be compliant with the relevant supply regulation and supplied with a declaration of conformity (CE / UKCA depending on date of initial placing on to market).
- Evidence of pre-hire inspection.
- Evidence of regular inspection plus 'next service and or inspection due' date sticker.
- Operator instructions must be on the machine.
- All safety decals in place and legible.

Description

Vehicle mounted road sweeper or combined road sweeper and gully sucker up to 6,800 lts capacity.

Plant specific

- Chapter 8 compliant beacons, reflective chevrons and Highway / Motorway Maintenance signage (if applicable).
- Supplied with lights and if used on public highway – compliance with Road Vehicles (Construction & Use) Regulations – registration plate's front & rear etc.
- Fleet Operator Recognition Scheme (FORS) – Minimum Silver.
- Current Operator "O" licence displayed.
- Current MOT plating certificate.
- Waste carriers licence.
- Seat belts must be fitted and operational.
- Current MOT plating certificate.
- Waste carriers licence.
- Seat belts must be fitted and operational.
- 360° visibility criteria to satisfy 1m high at 1m distance, using line of sight, mirrors, cameras (270°/360°) as applicable.
- Audible white noise reversing alarm (subject to risk assessment) & reversing camera.
- Isolation switch with key.
- Locking doors with key.
- Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility.
- Where access is required at height for security & maintenance purposes, suitable handrails must be in place to prevent falling from height.
- Locking caps / covers to fuel and all other tanks.
- Wheel nuts indicators.
- Labelled each side with tyre inflation pressure.
- Dual gully brush and wide main brush.
- Gully sucker and hand lance.
- Rear work lights.
- Park brake not engaged warning device.
- Fire extinguisher in cab of machine if only one exit.
- Engine must comply with minimum construction vehicle emission standard Euro VI.

Photo / illustration



Operator / Manager specific

- Minimum of Category "C" drivers licence when unit over 7.5 GVW.
- Shall hold a current Driver CPC qualification.
- Be trained in and comply with the Duty of Care for Waste Carriers.
- Demonstrable training and experience in operation sweeper / gully sucker.
- Plant Operator induction (1MC03-SCJ-HS-TEM-S001-000082) and Operator assessment (1MC03-SCJ-HS-TEM-S001-000080) to be completed.

Plant general

- Must be compliant with the relevant supply regulation and supplied with a declaration of conformity (CE / UKCA depending on date of initial placing on to market).
- Evidence of pre-hire inspection.
- Evidence of regular inspection plus 'next service and or inspection due' date sticker.
- Operator instructions must be on the machine.
- All safety decals in place and legible.

Description

Self-propelled, diesel powered telehandler with a reach up to 20m and lift capacity up to 5t.

Plant specific

- 12 month LOLER thorough examination certificate.
- Lifting accessories: 6 month thorough examination and certified lifting points for all lifting duties.
- Supplied with lights and, if used on public highway, compliant to Road Vehicles (Construction & Use) Regulations – registration plates front and rear.
- Roll Over Protective Structure (ROPS) and Falling Object Protected Structure (FOPS) to cab.
- Flashing amber beacon.
- Capable of providing telematics data.
- 360° visibility criteria to satisfy 1m high at 1m distance, using line of sight, mirrors, cameras (270°/360°) as applicable.
- Locking doors with keys.
- Isolation switch key.
- Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility.
- Seat belts must be fitted and operational and green flashing light to indicate when seat belt is being worn.
- White noise audible reversing alarm.
- Where access is required to work at height, suitable handrails must be in place to prevent falls from height.
- Longitudinal Load Moment control system (LLMC).
- Longitudinal Load Moment Indicator (LLMI).
- Safe Working Load (SWL) to be clearly marked.
- Check valves must be fitted.
- Locking caps / covers to fuel and all other tanks.
- Boom ram lock facility must be provided with the machine.
- Protective mesh must be in place to jib side of cab if window is opening type.
- Wheel nut indicators fitted.
- Labelled each side with tyre inflation pressure and wheel nut torque figures.
- Lifting duty chart to be displayed or available in the cab.
- If used under overhead cables or near obstructions: must be fitted with height restrictors with external indication of use.
- Pedestrian detection systems are recommended subject to risk assessment.
- The equipment should not be more than 5 years old (recommended).
- Engine must comply with minimum NRMM emission standard EU Stage IV (Stage IIIB if <56kW).
- On Hampstead Road Bridge works package only, engine must comply with minimum emission standard EU Stage V.
- NRMM emission details must be checked and registered with SCS Railways prior to deployment.

Photo / illustration



Operator / Manager specific

- CPCS card category A17 – Telescopic handler including relevant endorsements e.g. size / slew.
 - NPORS card category
 - N010 – Telescopic Handler
 - N138 – Telescopic Handler Suspended Loads
- (If authorised to work with suspended loads).
- Must have a current relevant driving licence (Category B) if driving on the public highway and be authorised by the project.
 - Plant operator induction (1MC03-SCJ-HS-TEM-S001-000082) and equipment competency assessment (1MC03-SCJ-HS-TEM-S001-000080).

Plant general

- Must be compliant with the relevant supply regulation and supplied with a declaration of conformity (CE / UKCA depending on date of initial placing on to market).
- Evidence of pre-hire inspection.
- Evidence of regular inspection plus 'next service and or inspection due' date sticker.
- Manufacturer and operator instructions must be on the machine.
- All safety decals in place and legible.

Description

Diesel Powered Dozer, from 8t to 50t.

Plant specific

- 12 month report of thorough examination (where applicable).
- Audible reversing alarm fitted and white noise directional.
- Protected cab or Falling Objects Protective Structure (FOPS) to cab where risk of falling objects.
- Roll Over Protective Structure (ROPS) to cab.
- Capable of providing telematics data.
- Flashing amber beacon.
- Seat belts must be fitted and operational and green flashing light to indicate when seat belt is being worn.
- 360° visibility criteria to satisfy 1m high at 1m distance, using line of sight, mirrors, cameras (270°/360°) as applicable.
- Cab steps and grab handles to ensure three points of contact is achievable and preferably high visibility.
- Locking doors with key.
- Locking caps / covers to fuel and other tanks.
- Where access is required at height for security and maintenance purposes, suitable system must be in place to prevent falling from height.
- **Pedestrian detection systems are recommended subject to risk assessment.**
- The equipment should be no more than 5 years old (recommended).
- Engine must comply with minimum NRMM emission standard EU Stage IV (Stage IIIB if <56kW).
- On Hampstead Road Bridge works package only, engine must comply with minimum emission standard EU Stage V.
- NRMM emission details must be checked and registered with SCS Railways prior to deployment.

If winch fitted:

- Safe Working Load to be established and displayed.
- Associated lifting accessories to have 6-month report of thorough examination.

Photo / illustration



Operator / Manager specific

- CPCS card category A34 – Crawler – Tractor / Dozer.
- NPORS card category N215 – Dozer.
- Cat B driving license.
- Trained in the operation of the winch (if fitted).
- Plant Operator induction (1MC03-SCJ-HS-TEM-S001-000082) and Operator assessment (1MC03-SCJ-HS-TEM-S001-000080) to be completed.

Plant general

- Must be compliant with the relevant supply regulation and supplied with a declaration of conformity (CE / UKCA depending on date of initial placing on to market).
- Evidence of pre-hire inspection.
- Evidence of regular inspection plus 'next service and or inspection due' date sticker.
- Manufacturer and operator instructions must be on the machine.
- All safety decals in place and legible.

Description

Self-propelled, diesel powered articulated or rigid loading shovel from 2t to 22t.

Plant specific

- 12 month report of thorough examination.
- 6 month report of thorough examination of all lifting accessories.
- Lifting duty chart displayed on boom or in cab.
- Machine lifting points / tie down points must be clearly labelled and in good condition.
- Supplied with lights and, if used on public highway, compliant to Road Vehicles (Construction & Use) Regulations – registration plates front and rear.
- Capable of providing telematics data.
- Audible white noise reversing alarm.
- 360° visibility criteria to satisfy 1m high at 1m distance, using line of sight, mirrors, cameras (270°/360°) as applicable.
- Reversing camera (over 15t models).
- Roll Over Protective Structure (ROPS) and Falling Objects Protective Structure (FOPS) for cabbed machines.
- Roll Over Protective Structure (ROPS) to non-cabbed machines.
- Locking doors with keys.
- Power isolation switch and key.
- Wheel nut indicators.
- Labelled each side with tyre inflation pressure and wheel nut torque figure.
- Articulation lock must be fitted and operational.
- Flashing amber beacon.
- Seat belts must be fitted and operational and green flashing light to indicate when seat belt is being worn.
- Cab steps and grab handles to ensure three points of contact is achievable and preferably high visibility.
- Where access is required at height for security & maintenance purposes, suitable handrails must be in place to prevent falling from height.
- Locking caps / covers to fuel and other tanks.
- Articulation lock must be fitted and operational.
- Pedestrian detection systems are recommended subject to risk assessment.
- Engine must comply with minimum NRMM emission standard EU Stage IV (Stage IIIB if <56kW).
- On Hampstead Road Bridge works package only, engine must comply with minimum emission standard EU Stage V.
- NRMM emission details must be checked and registered with SCS Railways prior to deployment.

Photo / illustration



Operator / Manager specific

- CPCS card category A21 – Wheeled Loading Shovel.
- NPORS Card category N209 – Loading Shovel.
- Must be minimum of 18 years of age.
- Must have a current relevant driving licence (Category B) if driving on the public highway and be authorised by the project.
- Plant Operator induction (1MC03-SCJ-HS-TEM-S001-000082) and Operator assessment (1MC03-SCJ-HS-TEM-S001-000080) to be completed.

Plant general

- Must be compliant with the relevant supply regulation and supplied with a declaration of conformity (CE / UKCA depending on date of initial placing on to market).
- Evidence of pre-hire inspection.
- Evidence of regular inspection plus 'next service and or inspection due' date sticker.
- Manufacture and Operator instructions must be on the machine.
- All safety decals in place and legible.

Description

Piling rigs fitted with long screw drill. Output torque 60–400 kNm, pile diameter 1.5–4 m, pile depth 60–90 m.

Plant specific

- 12 monthly report of thorough examination certificates.
- 6 monthly report of thorough examination certificate for all accessories and attachments.
- Rig shall be within 6 months of having its thorough examination if the single line is used to lift personnel.
- Over hoist cut out device must be fitted and operational.
- White Noise motion alarms for slew and tracking must be fitted and operational (subject to risk assessment).
- Handrails must be fitted to the upper structure and running boards to facilitate work at height.
- Flashing amber beacon.
- Required 360 degree visibility surrounding plant. Camera system to be utilised for blind spots- i.e area around the plant not covered by line of sight nor visible using fixed mirrors.
- An auxiliary winch hook must be fitted with safety catch.
- An auger cleaner must be fitted to prevent spoil fighting up the auger string.
- Pile gates must be fitted, interlocked and operational.
- Auger cleaner must be fitted with secondary restraint to prevent items falling.
- Rig instrumentation shall be fitted to the rig to control / aid the construction of the piles.
- Aircraft warning lights (if working within 6km of airports or aerodromes).
- Must be fitted with “Hold to Run” levers.
- The machine's “Dead Man's Handle” must not be modified.
- External “E Stop” must be fitted.
- Concrete loop hose shall be double bagged over it's entire length.
- Rubber concrete pipes fitted at height shall have whip checks fitted to all joints.
- Blow out adaptors shall have two air exhaust valves fitted and pressure gauge to indicate pressure in plumbing line.
- Fire extinguisher in cab.
- Engine must comply with minimum NRMM emission standard EU Stage IV (Stage IIIB if <56kW).
- On Hampstead Road Bridge works package only, engine must comply with minimum emission standard EU Stage V.
- NRMM emission details must be checked and registered with SCS Railways prior to deployment.

Photo / illustration



Operator / Manager specific

- CPCS card category A47 Piling Rig – Bored below 20 tonnes or A48 Piling Rig - Bored above 20 tonnes.
- Evidence of familiarisation training for the type of rig being operated.
- Trained in lifting operations and in the operation of the winch if using the auxiliary winch.
- Trained in line with all associated work instructions and procedures which shall include but not limited to: Concrete blowout; Auger Assembly; Plant & Vehicle Movements and Rig Instrumentation System (including calibration).
- Must not operate the rig unless under the direction of a designated rig attendant.
- Rig attendant to hold CPCS card category A74.

Plant general

- Must be compliant with the relevant supply regulation and supplied with a declaration of conformity (CE / UKCA depending on date of initial placing on to market).
- Evidence of pre-hire inspection.
- Evidence of regular inspection plus 'next service and or inspection due' date sticker.
- Operator instructions must be on the machine.
- All safety decals in place and legible.

Description

Piling rigs fitted with hydraulic hammer for driving steel pipe / precast concrete / timber piles

Plant specific

- 12 monthly report of thorough examination certificates.
- 6 monthly report of thorough examination certificate for all accessories and attachments.
- Safe working load must be clearly displayed.
- A load chart must be clearly displayed.
- Over hoist cut out device must be fitted and operational.
- White Noise motion alarms for slew and tracking must be fitted and operational (subject to risk assessment).
- Handrails must be fitted to the upper structure and running boards to facilitate work at height.
- Flashing amber beacon.
- Required 360 degree visibility surrounding plant. Camera system to be utilised for blind spots- i.e area around the plant not covered by line of sight nor visible using fixed mirrors.
- An auxiliary winch hook must be fitted with safety catch.
- A hammer safety rest must be fitted.
- A hammer over-hoist knock out mechanism must be fitted.
- A dual system brake release must be fitted for the hammer winch.
- Pile gates must be fitted, interlocked and operational.
- Rig instrumentation must have automatic set taking device.
- Aircraft warning lights (if working within 6km of airports or aerodromes).
- Must be fitted with "Hold to Run" levers.
- The machine's "Dead Man's Handle" must not be modified.
- External "E Stop" must be fitted.
- Fire extinguisher in cab.
- Engine must comply with minimum NRMM emission standard EU Stage IV (Stage IIIB if <56kW).
- On Hampstead Road Bridge works package only, engine must comply with minimum emission standard EU Stage V.
- NRMM emission details must be checked and registered with SCS Railways prior to deployment.

Photo / illustration



Operator / Manager specific

- CPCS card category A45 Piling Rig – Driven below 20 tonnes or A46 Piling Rig – Driven above 20 tonnes.
- Evidence of familiarisation training for the type of rig being operated.
- Trained in lifting operations and in the operation of the winch if using the auxiliary winch.
- Must not operate the rig unless under the direction of a designated Rig Attendant.
- Rig Attendant to hold CPCS card category A74.

Plant general

- Must be compliant with the relevant supply regulation and supplied with a declaration of conformity (CE / UKCA depending on date of initial placing on to market).
- Evidence of pre-hire inspection.
- Evidence of regular inspection plus 'next service and or inspection due' date sticker.
- Operator instructions must be on the machine.
- All safety decals in place and legible.

Description

Piling rigs fitted with vibratory hammers (Vibration rates between 1200 – 2400 VPM).

Plant specific

- 12 monthly report of thorough examination certificates.
- 6 monthly report of thorough examination certificate for all accessories and attachments.
- Safe working load must be displayed.
- A load chart must be clearly displayed.
- Over hoist cut out device must be fitted and operational.
- Roll Over Protective Structure (ROPS) and Falling Object Protected Structure (FOPS) to cab.
- Window guards fitted.
- All round visibility aids to satisfy 1m high visibility at 1m distance in all directions.
- Required 360 degree visibility surrounding plant. Camera system to be utilised for blind spots- i.e area around the plant not covered by line of sight nor visible using fixed mirrors.
- White Noise motion alarms for slew and tracking must be fitted and operational (subject to risk assessment).
- Handrails must be fitted to the upper structure and running boards to facilitate work at height.
- Flashing amber beacon.
- A sledge over hoist knock out mechanism must be fitted.
- An auxiliary line over hoist knock out mechanism must be fitted.
- Aircraft warning lights (if working within 6km of airports or aerodromes).
- Must be fitted with "Hold to Run" levers.
- The machine's "Dead Man's Handle" must not be modified.
- Hydraulic fluid levels to be displayed within the cab of the machine.
- Fire extinguisher in cab.
- Engine must comply with minimum NRMM emission standard EU Stage IV (Stage IIIB if <56kW).
- On Hampstead Road Bridge works package only, engine must comply with minimum emission standard EU Stage V.
- NRMM emission details must be checked and registered with SCS Railways prior to deployment.

Photo / illustration



Operator / Manager specific

- CPCS card category A45 Piling Rig – Driven below 20 tonnes or A46 Piling Rig - Driven above 20 tonnes.
- Evidence of familiarisation training for the type of rig being operated.
- Trained in lifting operations and in the operation of the winch if using the auxiliary winch.
- Must not operate the rig unless under the direction of a designated rig attendant.
- Rig attendant to hold CPCS card category A74.

Plant general

- Must be compliant with the relevant supply regulation and supplied with a declaration of conformity (CE / UKCA depending on date of initial placing on to market).
- Evidence of pre-hire inspection.
- Evidence of regular inspection plus 'next service and or inspection due' date sticker.
- Operator instructions must be on the machine.
- All safety decals in place and legible

Description

Rotary bored piling (RBP) uses a machine with specially designed drilling tools, buckets and grabs to remove soil and rock.

Plant specific

- 12 monthly report of thorough examination certificates.
- 6 monthly report of thorough examination certificate for all accessories and attachments.
- Rig shall be within 6 months of having its thorough examination if the single line is used to lift personnel.
- Over hoist cut out device must be fitted and operational.
- Motion alarms for slew and tracking must be fitted and operational.
- Handrails must be fitted to the upper structure and running boards to facilitate work at height.
- Flashing amber beacon.
- Required 360 degree visibility surrounding plant. Camera system to be utilised for blind spots- i.e area around the plant not covered by line of sight nor visible using fixed mirrors.
- An auxiliary winch hook must be fitted with safety catch.
- Rig instrumentation shall be fitted to the rig to control / aid the construction of the piles.
- Aircraft warning lights (if working within 6km of airports or aerodromes).
- Must be fitted with "Hold to Run" levers.
- The machine's "Dead Man's Handle" must not be modified.
- External "E Stop" must be fitted at front and back.
- Fire extinguisher in cab.
- Engine must comply with minimum NRMM emission standard EU Stage IV (Stage IIIB if <56kW).
- On Hampstead Road Bridge works package only, engine must comply with minimum emission standard EU Stage V.
- NRMM emission details must be checked and registered with SCS Railways prior to deployment

Photo / illustration



Operator / Manager specific

- CPCS card category A47 Piling Rig – Bored below 20 tonnes or A48 Piling Rig - Bored above 20 tonnes.
- Evidence of familiarisation training for the type of rig being operated.
- Trained in lifting operations and in the operation of the winch if using the auxiliary winch.
- Trained in line with all associated work instructions and procedures which shall include but not limited to: Concrete blowout; Auger Assembly; Plant & Vehicle Movements and Rig Instrumentation System (including calibration).
- Must not operate the rig unless under the direction of a designated rig attendant. [100% attendance].
- Rig attendant to hold CPCS card category A74.

Plant general

- Must be compliant with the relevant supply regulation and supplied with a declaration of conformity (CE / UKCA depending on date of initial placing on to market).
- Evidence of pre-hire inspection.
- Evidence of regular inspection plus 'next service and or inspection due' date sticker.
- Operator instructions must be on the machine.
- All safety decals in place and legible.



	Towable equipment	180-degree excavator	Mini excavator (up to 8T)	Tracked and wheeled 360-degree excavator (10T and above)	Forward and side tipping dumper (less than 6T)	Articulated dump trucks (25T and above)	Crawler Crane	Mobile Crane	Telehandler	MEWP	Ride-on cabbed compaction roller	Tracked Dozer	Wheeled Loading Shovels	Forward and Side Tipping Dumper (6T and above)	Vacuum Extractor European Suction Excavator ESE 10 / 16 / 26 / 32T	Piling Rig	Concrete Pump
Variable track (<3T)							◆									◆	
Seat Belts beacon		◆	◆	◆	◆	◆			◆		◆	◆	◆	◆			◆
360° visibility criteria to satisfy 1m high at 1m distance, using line of sight, mirrors, cameras (270/360°) as applicable		◆	◆	◆	◆	◆	◆	◆	◆		◆	◆	◆	◆	◆		◆
Secondary guarding device																	◆
Work at height protection				◆			◆	◆		◆		◆	◆	◆	◆	◆	
Double locking quick hitch		◆		◆													
Manual/direct quick hitch (<5T)		◆															
Height and skew restrainers		Fitted for use if	Fitted for use if	Fitted for use if			Fitted for use if	Fitted for use if	Fitted for use if	Fitted for use if							Fitted for use if
White noise reversing / movement alarms (subject to risk assessment)		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
LOLER Legal e.g. certificate of thorough examination		◆	◆	◆			◆	◆	◆	◆							
Standards e.g. ROFS, FOPS, mirrors, seat belts, etc)		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Lift plans			if lifting	if lifting			◆	◆	◆	if using sky rack or sky rack plus						◆	
OH & Underground services permit required				◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆

To be read in conjunction with SCS Plant and Equipment Minimum Standards / HSMS specifics, also subject to risk assessment and operating parameters



Integrated
Project Team

Delivering
HS2 London Tunnels