

# Costain Plant Specification

## Minimum mandatory requirements



## Forward

Costain have set out the minimum mandatory requirements for plant specification to be used on contracts.

There may be higher specification for your contract which should be considered and is covered by the caveat at the foot of each specification.

The Minimum Standards were built on information gained from discussions with original equipment manufacturers (OEMs) on current and future trends for reducing emissions from their products, covering power technologies, lifetime and other aspects. They have been developed in-line with the aspirations and agreement of Supply Chain Sustainability School's Plant Leadership Group and members and have continually reengaged with industry experts over the years to inform version updates and to ensure the standards remain relevant.

If HVO or other biofuels are used instead of fossil diesel, they should be sustainably sourced and all carbon emissions from their supply chain and use should be accounted for. More information and guidance can be found [here](#).

Stage III and IV engines that are fitted with after treatment – e.g. diesel particulate filter (DPF), selective catalytic reduction (SCR) – to make them Stage V compliant, are acceptable where they have been independently tested and proved to meet the emissions thresholds of Stage V.

Appropriate advice and guidance will be provided for all equipment to the operator and site management on fuel-efficient operation, commonly known as Eco Operator training. This will be supported, where relevant, through the provision of “eco-modes”, “auto-off” functions and telematics that are pre-enabled before delivery.

Onsite, there should be sufficient infrastructure to enable all electric equipment to be charged from sources that don't consume diesel or other fossil fuel, i.e., from the grid or renewable power sources. Reference is made to the Decarbonisation of Construction Activities Standard (DCA).

Where generators and stationary accommodation are on a larger site, power management and distribution should be deployed.

'Original Equipment Manufacturer (OEM)' is defined as a company that manufactures components or products.

## Notes:

### 1. Machinery Directives:

Must be compliant with EC Machinery Directive 2006 / 42 / EC or Supply of Machinery (Safety) Regulations 2022 or The Machinery Regulation (EU) 2023/1230 and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination.

## Minimum Standards

Category	Examples	Min Std from 2026 for hired in for use and Supply Chain	Min Std from 2027 for hirers buying new and Supply Chain	Std to be reached by 2030
<b>Tools</b>	Saws, whacker plates, mobile air con unit	Cord/flex or battery	<50% corded/ flex; ≥50% cordless/ battery	Cordless/battery
<b>Lighting Towers</b>	All LED lighting	<75% Stage V hybrid  ≥25% battery & PV	<50% Stage V hybrid  ≥50% battery & PV	<20% Stage V hybrid  ≥80% battery & PV
<b>Small Plant &lt;5t</b>	Mini excavators, micro dumpers, mini skip loaders	Stage IIIB	Stage V Company purchasing profile will assess the availability and client uptake of low and zero emissions plant	Stage V and increasing levels of zero emission, including but not limited to full electric, battery driven and hydrogen
<b>Medium Plant 8t - 13t</b>	ADTs, Excavators, wheeled loaders, dumpers, cranes, bulldozers, telehandlers	Stage IV (rest of UK) Stage V (London)	Stage V Company purchasing profile will assess the availability and client uptake of low and zero emissions plant such as electric and hybrid	Stage V and increasing levels of zero emission, including but not limited to full electric, battery driven and hydrogen; Increasing levels of hybrid plant
<b>Large Plant &gt;13t</b>	ADTs, Excavators, Wheeled Loaders, dumpers, cranes, bulldozers, telehandlers	Stage IV (rest of UK) Stage V (London)	Stage V Company purchasing profile will assess the availability and client uptake of low and zero emissions plant	Stage V and increasing levels of zero emission, including but not limited to full electric, battery driven and hydrogen  Increasing levels of hybrid plant; <10 years autonomous
<b>Generators</b>	Mobile and stationary	Stage V (All of UK)	Stage V + battery (hybrid)  Company purchasing profile will assess the availability and client uptake of low and zero emissions plant	Stage V + battery (hybrid)  Increasing levels of renewable power, plus power management  >10 years - Hydrogen

Category	Examples	Min Std from 2026 for hired in for use and Supply Chain	Min Std from 2027 for hirers buying new and Supply Chain	Std to be reached by 2030
Accommodation	Modular	PIR sensor-controlled lighting, double glazing	PIR sensor-controlled lighting, double glazing	Powered by renewables, building management system (BMS) Electrical appliances in welfare powered 100% by renewables
	Stand Alone cabins: e.g. Anti Vandal premium eco or Greenspace eco	EPC rating B desired	EPC rating A desired	
	Towable Mobile Welfare	12V/24V USB charging and PIR sensor controlled LED lighting; assisted by renewables inverter-powered 230V appliances		
Access	MEWPs and van-mounted access	MEWPs used outdoors: Stage IIIB or hybrid; MEWPs used indoors: electric, bi-energy (range extender), hybrid or Hydrogen  Vehicle mounted: Euro 5 compliant engine	MEWPs: electric, bi-energy (range extender), hybrid or hydrogen. If hybrid or electric unavailable at larger end, engine to be Stage V  Vehicle mounted: Euro VI engine; Company purchasing profile will assess the availability and client uptake of low and zero emissions plant	MEWPs: Zero emission plant
Pumps	Diesel & electric suction pump Diesel & electric hydraulic submersibles Submersible electric	Stage IIIA (rest of UK)  Stage IV (London)	Stage V  Company purchasing profile will assess the availability and client uptake of low and zero emissions plant such as electric and hybrid	Stage V + battery (hybrid)  Increasing levels of renewable power, plus power management >10 years - Hydrogen
In-use		Eco Operator training	Eco operator training	Data and Telematic training

## Machine Categories

180° Wheeled Excavator / Loader .....	6
360° Tracked Excavator .....	7
360° Wheeled Excavator .....	8
Agricultural Tractor .....	9
Air Compressor .....	10
All Terrain Forklift Truck .....	11
ATV (All-Terrain Vehicle) .....	12
Articulated Dump Truck (ADT) .....	13
Continuous Flight Auger (CFA) Piling Rig .....	14
Coil Pipe Trailer .....	15
Concrete Extrusion Machine .....	16
Concrete Pump .....	17
Crawler Crane .....	18
Driven Piling Rig .....	19
Forward Tipping Dumper .....	20
Generator .....	21
Grab Lorry .....	22
Highway Towed Bowser .....	23
Large Diameter Pipe (LDP) Piling Rig .....	24
Lighting Tower .....	25
Lorry Loader Crane (HIAB) .....	26
MEWP (Boom Lift) .....	27
MEWP (Scissor Lift) .....	28
MEWP (Static Boom - Spider) .....	29
MEWP (Vehicle Mounted) .....	30
MEWP PAV (Push Around Vertical) .....	31
MEWP Vertical Lift (Mobile) .....	32
Mini Excavator .....	33
Mini Rotary Piling Rig .....	34
Mixer Truck .....	35
Mobile Crane .....	36
Mobile Crushing Plant .....	37
Motorised Grader .....	38
Motorised Scraper .....	39
Paver .....	40
Plant Trailer (Highway specification) .....	41
Rigid or Articulated Rear Tipping Dumper .....	42
Ride on Roller .....	43
Road Planer .....	44
Road Sweeper / Gully Sucker .....	45
Rotary or Rotary Bored (RBP) Piling Rig .....	46
Roto Telehandler .....	47
Site Towed Bowser .....	48
Suction Excavator .....	49
Telehandler .....	50
Tipper Lorry (Rigid body) .....	51
Tracked Dozer .....	52
Tractor Plant Trailer .....	53
Vibro Piling Rig .....	54
Volumetric Mixer Truck .....	55
360° Wheeled Loading Shovel .....	56

# Plant Specification - Minimum Mandatory Requirements

## 180° Wheeled Excavator / Loader



### Core specification

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

### Environmental requirements

- Must comply with **Stage IV or higher** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Equipment – Specific (continued)
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• If used on public highway - compliance with C&amp;U regulations (VED registered, lights, indicators, registration plate's front &amp; rear etc.)</li> <li>• Brake efficiency testing to be carried out and recorded in accordance with the manufactures operator's handbook / instructions</li> <li>• Protected ROPS required or FOPS cab structure where risk of falling objects</li> <li>• Capable of providing telematic data</li> <li>• Live anti-theft tracking system</li> <li>• Flashing amber beacons</li> <li>• All round visibility (cameras, radar, mirrors as applicable) to satisfy 1m high in all directions</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility</li> <li>• Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• Audible white noise reversing alarm</li> <li>• Locking doors with key</li> <li>• Isolation controls by a secondary device with seat rotation</li> <li>• Quick hitch must be automatic double locking for machines over 5 tonne (unless fixed as a direct attachment - no quick hitch)</li> <li>• Buckets to be supplied as required</li> <li>• Tooth guard for use during travel on public highway</li> <li>• Where access is required at height for security &amp; maintenance purposes, a suitable system must be in place to prevent falling from height</li> <li>• Wheeled nut indicators</li> <li>• Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure</li> <li>• If used under or near overhead cables / obstructions: must be fitted with height &amp; slew restrictors with external indication of use</li> <li>• Cab and window security guards (optional)</li> </ul>	<ul style="list-style-type: none"> <li>• Suitable spill kit to be provided</li> <li>• Must comply with LOLER and PUWER</li> <li>• The equipment <b>must</b> not be more than 5 years old</li> <li>• Manufacturer instruction / user handbook to be with machine</li> </ul>
	Plant Operator – Specific
	<ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> A10 - Excavator 180° below 5 tonne, <b>or:</b> A12 - Excavator 180° above 5 tonne</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N201 - Excavator 180° N100 – Excavator as a Crane</li> <li>• Cat B driving licence</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> <li>• Trained in use of any fitted quick hitch and attachments</li> </ul>
	If used for Lifting – Equipment
	<ul style="list-style-type: none"> <li>• A machine specific lifting duty chart must be provided with the machine</li> <li>• <b>No Lifting with a machine below 5 tonne unless CPCS A12 competency card held</b></li> <li>• A 12 month report of thorough examination should be provided</li> <li>• A 6 month report of thorough examination should be provided for all lifting accessories</li> <li>• Certified lifting points for all duties</li> <li>• Safe Load Indicator (LSI) or Rated Capacity Indicator (RCI)</li> <li>• Safe Working Load (SWL) to be clearly marked</li> <li>• Check Valves must be fitted to boom and dipper arm circuits</li> </ul>
	If used for Lifting - Operator
	<ul style="list-style-type: none"> <li>• Lifting with excavator operator assessment to be completed</li> <li>• Be trained in the use of specific lifting attachments</li> <li>• <b>CPCS Category:</b> A12 - Excavator 180° above 5 tonne</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N100 - Excavator as a Crane</li> </ul>
Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred	

# Plant Specification - Minimum Mandatory Requirements

## 360° Tracked Excavator



### Core specification

9 tonne and over steel or rubber tracked 360° excavator

### Environmental requirements

- Must comply with **Stage V** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Operator – Specific
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• If used on public highway - compliance with C&amp;U regulations (VED registered, lights, indicators, registration plate's front &amp; rear etc.)</li> <li>• Protected ROPS required or FOPS cab structure where risk of falling objects</li> <li>• Capable of providing telematic data</li> <li>• Live anti-theft tracking system</li> <li>• Flashing amber beacons</li> <li>• All round visibility (cameras, radar, mirrors as applicable) to satisfy 1m high in all directions</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility</li> <li>• Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• Audible white noise reversing alarm</li> <li>• Locking doors with key</li> <li>• Deadman lever must be fitted to prevent starting when lever not engaged</li> <li>• Buckets to be supplied as required</li> <li>• Where access is required at height for security &amp; maintenance purposes, a suitable system must be in place to prevent falling from height</li> <li>• Track direction indicator</li> <li>• If used under or near overhead cables / obstructions: must be fitted with height &amp; slew restrictors with external indication of use</li> <li>• Cab and window security guards (optional)</li> <li>• Quick hitch must be automatic double locking</li> <li>• Suitable spill kit to be provided</li> <li>• Must comply with LOLER and PUWER</li> <li>• The equipment <b>must</b> not be more than 5 years old</li> <li>• Manufacturer instruction / operator handbook to be with machine</li> </ul>	<ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> A58A Tracked Excavator 360° below 10 tonne, <b>or:</b> A59A Tracked Excavator 360° above 10 tonne</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N202 - Excavator 360°</li> <li>• Cat B driving licence</li> <li>• Track category H, if travelling on public highway on tracks</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> <li>• Trained in use of any fitted quick hitch and attachments and height and slew restrictors</li> </ul>
	<b>If used for Lifting – Equipment</b>
	<ul style="list-style-type: none"> <li>• A machine specific lifting duty chart must be provided with the machine</li> <li>• A 12 month report of thorough examination should be provided</li> <li>• A 6 month report of thorough examination should be provided for all lifting accessories</li> <li>• Certified lifting points for all duties</li> <li>• Safe Load Indicator (LSI) or Rated Capacity Indicator (RCI)</li> <li>• Safe Working Load (SWL) to be clearly marked</li> <li>• Check Valves must be fitted to boom and dipper arm circuits</li> </ul>
	<b>If used for Lifting - Operator</b>
	<ul style="list-style-type: none"> <li>• Lifting with excavator operator assessment to be completed</li> <li>• Be trained in the use of specific lifting attachments</li> <li>• <b>CPCS Category:</b> A58C Lifting Operations below 10 tonne, <b>or:</b> A59C Lifting operations above 10 tonne</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N100 - Excavator as a Crane</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

# Plant Specification - Minimum Mandatory Requirements

## 360° Wheeled Excavator



### Core specification

7 tonne - 22 tonne wheeled, self-propelled 360° excavator

### Environmental requirements

- Must comply with **Stage IV or higher** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Operator – Specific
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• If used on public highway - compliance with C&amp;U regulations (VED registered, lights, indicators, registration plate's front &amp; rear etc.)</li> <li>• Protected ROPS required or FOPS cab structure where risk of falling objects</li> <li>• Capable of providing telematic data</li> <li>• Live anti-theft tracking system</li> <li>• Flashing amber beacons</li> <li>• All round visibility (cameras, radar, mirrors as applicable) to satisfy 1m high in all directions</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility</li> <li>• Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• Audible white noise reversing alarm</li> <li>• Locking doors with key</li> <li>• Deadman lever must be fitted to prevent starting when lever not engaged</li> <li>• Buckets to be supplied as required</li> <li>• Where access is required at height for security &amp; maintenance purposes, a suitable system must be in place to prevent falling from height</li> <li>• Wheeled nut indicators</li> <li>• Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure</li> <li>• If used under or near overhead cables / obstructions: must be fitted with height &amp; slew restrictors with external indication of use</li> <li>• Cab and window security guards (optional)</li> <li>• Quick hitch must be automatic double locking</li> <li>• Suitable spill kit to be provided</li> <li>• Must comply with LOLER and PUWER</li> <li>• The equipment <b>must</b> not be more than 5 years old</li> <li>• Manufacturer instruction / user handbook to be with machine</li> </ul>	<ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> A58B Wheeled Excavator 360° below 10 tonne, <b>or:</b> A59B Wheeled Excavator 360° above 10 tonne</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N202 - Excavator 360°</li> <li>• Cat B driving licence</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> <li>• Trained in use of any fitted quick hitch and attachments and height and slew restrictors</li> </ul>
	<b>If used for Lifting – Equipment</b>
	<ul style="list-style-type: none"> <li>• A machine specific lifting duty chart must be provided with the machine</li> <li>• A 12 month report of thorough examination should be provided</li> <li>• A 6 month report of thorough examination should be provided for all lifting accessories</li> <li>• Certified lifting points for all duties</li> <li>• Safe Load Indicator (LSI) or Rated Capacity Indicator (RCI)</li> <li>• Safe Working Load (SWL) to be clearly marked</li> <li>• Check Valves must be fitted to boom and dipper arm circuits</li> </ul>
	<b>If used for Lifting – Operator</b>
	<ul style="list-style-type: none"> <li>• Lifting with excavator operator assessment to be completed</li> <li>• Be trained in the use of specific lifting attachments</li> <li>• <b>CPCS Category:</b> A58C Lifting Operations below 10 tonne, <b>or:</b> A59C Lifting operations above 10 tonne</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N100 - Excavator as a Crane</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

# Plant Specification - Minimum Mandatory Requirements

## Agricultural Tractor



### Core specification

Self-propelled, diesel powered tractor up to 170hp

### Environmental requirements

- Must comply with **Stage V** of EU 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Operator – Specific
<ul style="list-style-type: none"> <li>• Compliant with European Commission (EC) Machinery Directive 2006/42/EC, or UKCA certification, and supplied with a declaration of conformity</li> <li>• If used on public highway, may need to be Operator O Licence compliant. <b>Refer to Costain Fleet Management</b></li> <li>• Supplied with lights and if used on Public Highway compliance with C&amp;U regulations – (VED registered, working Lights, indicators, registration plate's front &amp; rear)</li> <li>• Brake efficiency testing to be carried out and recorded in accordance with the manufacture's operators' handbook / instructions</li> <li>• Capable of providing telematic data</li> <li>• Live anti-theft tracking system</li> <li>• Flashing amber beacon</li> <li>• Isolation switch with key</li> <li>• Park brake not engaged warning device</li> <li>• Protected ROPS required or FOPS cab structure where risk of falling objects</li> <li>• All round visibility (cameras, radar, mirrors, CCTV as applicable) to satisfy 1m high in all directions</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility</li> <li>• Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• Audible white noise reversing alarm</li> <li>• Locking doors with key</li> <li>• Locking caps/covers to fuel and all other tanks</li> <li>• Isolation switch with key</li> <li>• Wheeled nut indicators</li> <li>• Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure</li> <li>• If used for towing, must have hydraulic and air braking capability</li> <li>• The equipment <b>must</b> not be more than 5 years old</li> <li>• Manufacturer instruction / user handbook to be with machine</li> </ul>	<ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> A33 – Agricultural Tractor Additionally, if carrying loads: A49 – Loader/Securer – (non STGO) A – Non LGV B – LGV A50 – Loader/Securer – STGO</li> <li>• <b>NPORS card category (CSCS Logo endorsed):</b> N601 - Agricultural Tractor Additionally, if carrying loads: N120 - Plant Loader and Securer</li> <li>• Cat B driving licence</li> <li>• <b>Towing:</b></li> <li>• LGV class C1E for combinations with a maximum authorised mass (MAM) up to 12 tonnes (8.25 tonnes if the licence was obtained before 1997) and CE for combinations with MAM over 7.5 tonnes (8.25 tonnes for pre-1997 licences).</li> <li>• Total train weight must not exceed the rated payload of the machine</li> <li>• Shall hold a current Driver CPC qualification</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> <li>• Trained in fitting attachments</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

# Plant Specification - Minimum Mandatory Requirements

## Air Compressor



### Core specification

Road towable, diesel powered 50 – 750 cfm compressor

### Environmental requirements

- Must comply with **Stage IV or higher** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM. Can be Stage IIIB if under 56kW.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Operator – Specific
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• Type approved for use on the UK public Highway in accordance with Directive 2007/46/EC</li> <li>• If used on public highway - compliance with C&amp;U regulations (VED registered, lights, indicators, registration plate's front &amp; rear etc.)</li> <li>• Unique ID number to be displayed</li> <li>• All current pressure systems regulations certification to be in place where greater than 250 bar/liters</li> <li>• Capable of providing telematic data</li> <li>• Live anti-theft tracking system</li> <li>• Overrun braking system (for items over 750kg)</li> <li>• 40mm towing eye</li> <li>• Break away cable</li> <li>• Wheel nut indicators</li> <li>• Labelled each side with tyre inflation pressure and wheel nut torque</li> <li>• Noise emission label in compliance with OND 2000/14/ EC</li> <li>• Towing / Lifting weight to be clearly displayed</li> <li>• Canopy to have integral fuel bunding for environmental protection</li> <li>• All air hoses are to be supplied with 2 whip checks</li> <li>• Isolation Switch with key</li> <li>• Wheel chocks to be supplied (towed equipment)</li> <li>• Proof of inspection of lifting lug from supplier prior to delivery</li> <li>• Current 6 month report of thorough examination for central lifting eye (where applicable)</li> <li>• All safety decals to be in place and legible</li> <li>• Suitable drip tray / spill kit to be provided</li> <li>• The equipment <b>must</b> not be more than 5 years old</li> <li>• Manufacturer instruction / operator handbook to be with machine</li> </ul>	<ul style="list-style-type: none"> <li>• Cat B driving licence If compressor is over 750KG, you must have the correct driving licence category for towing and not exceed the rated capacity of the towing vehicle.</li> <li>• Pre 1997 C+E licence</li> <li>• Post 1997; B+E and / or C+E</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> <li>• Must have suitable familiarisation training including fitted accessories and attachments prior to use of equipment</li> <li>• <b>Do not tow on a public highway</b> with a commercial vehicle as tachograph regulations will apply</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

# Plant Specification - Minimum Mandatory Requirements

## All Terrain Forklift Truck



### Core specification

Self-propelled, diesel powered all terrain forklift truck with a reach up to 7m and lift capacity up to 4,000kg

### Environmental requirements

- Must comply with **Stage V** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Operator – Specific
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• If used on public highway - compliance with C&amp;U regulations (VED registered, lights, indicators, registration plate's front &amp; rear etc.)</li> <li>• Brake efficiency testing to be carried out and recorded in accordance with the OEM's operator's handbook / instructions</li> <li>• Forks to be folded/secured if travelling on public highway</li> <li>• Protected ROPS required or FOPS cab structure where risk of falling objects</li> <li>• Capable of providing telematic data</li> <li>• Live anti-theft tracking system</li> <li>• Isolation switch with key</li> <li>• Flashing amber beacons</li> <li>• All round visibility (cameras, radar, mirrors, CCTV as applicable) to satisfy 1m high in all directions</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility</li> <li>• Seat belts must be fitted and operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• Audible white noise reversing alarm</li> <li>• Locking doors with key</li> <li>• Locking caps / covers to fuel and all other tanks</li> <li>• Where access is required at height for security &amp; maintenance purposes, a suitable system must be in place to prevent falling from height</li> <li>• Wheeled nut indicators</li> <li>• Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure</li> <li>• If used under or near overhead cables / obstructions: must be fitted with height restrictors with indication of use</li> <li>• Boom ram lock facility must be provided with the machine</li> <li>• Suitable spill kit to be provided</li> <li>• The equipment <b>must</b> not be more than 5 years old</li> <li>• Manufacturer instruction / user handbook to be with machine</li> </ul>	<ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> A14 – Rough Terrain Masted Forklift</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N009 – Rough Terrain Lift Truck</li> <li>• Cat B driving licence</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> </ul>
	<b>Lifting Equipment - Specific</b>
	<ul style="list-style-type: none"> <li>• A machine specific lifting duty chart must be provided with the machine</li> <li>• A 12 month report of thorough examination should be provided</li> <li>• A 6 month report of thorough examination should be provided for all lifting accessories</li> <li>• Certified lifting points for all duties</li> <li>• Safe Load Indicator (LSI) or Rated Capacity Indicator (RCI)</li> <li>• Safe Working Load (SWL) to be clearly marked</li> <li>• Check Valves must be fitted</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

# Plant Specification - Minimum Mandatory Requirements

## ATV (All-Terrain Vehicle)



### Core specification

Self-propelled, wheeled or tracked, diesel powered, with a payload capacity up to 900kg. Can be 2 person or 4 person crew. Sit side by side (utility vehicles)

### Environmental requirements

- Must comply with **Stage V** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Operator – Specific
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• <b>Sit astride type (Quad bike) ATVs are NOT Permitted for use on Costain contracts</b></li> <li>• If used on public highway - compliance with C&amp;U regulations (VED registered, lights, indicators, registration plate's front &amp; rear etc.)</li> <li>• Protected ROPS required or FOPS cab structure where risk of falling objects</li> <li>• ATV to be fitted with Full cab (full windscreen c/w wipers and side doors or side door mesh)</li> <li>• Capable of providing telematic data</li> <li>• Live anti-theft tracking system</li> <li>• Flashing amber beacons</li> <li>• A 12 month report of thorough examination should be provided</li> <li>• All round visibility (cameras, radar, mirrors as applicable) to satisfy 1m high in all directions</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility</li> <li>• Seat belts (3-point inertia) must be fitted, operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• Audible white noise reversing alarm</li> <li>• Locking doors with key</li> <li>• Wheeled nut indicators</li> <li>• Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure</li> <li>• Must comply with LOLER and PUWER</li> <li>• The equipment <b>must</b> not be more than 5 years old</li> <li>• Manufacturer instruction / user handbook to be with machine</li> </ul>	<ul style="list-style-type: none"> <li>• Only operators who have received adequate training in the safe use of ATVs is to be permitted to use this equipment.</li> <li>• Training is provided through the LANTRA scheme (recognised by the HSE/HAS/HSENI) with the following courses available: <ul style="list-style-type: none"> <li>• All-Terrain Vehicle – Sit-in Conventional Steer</li> <li>• All-Terrain Vehicle – Sit-in Skid Steer (Tracked)</li> <li>• All-Terrain Vehicle – Sit-in Skid Steer (Wheeled)</li> </ul> </li> <li>• Training is also available through the National Proficiency Test Council (NPTC): <ul style="list-style-type: none"> <li>• Unit 204 – Prepare and operate a side-by-side all-terrain vehicle</li> <li>• Unit 205 – Operate an all-terrain vehicle with a trailer or trailer attachment</li> </ul> </li> <li>• Cat B driving licence</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> <li>• Training should include the use of any towed equipment or attachments. Familiarisation training should be provided, if required</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

# Plant Specification - Minimum Mandatory Requirements

## Articulated Dump Truck (ADT)



### Core specification

Self-propelled, diesel powered articulated dump truck from 13t to 50t. tonne and over steel or rubber tracked 360° excavator

### Environmental requirements

- Must comply with **Stage V** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Operator – Specific
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• If used on public highway - compliance with C&amp;U regulations (VED registered, lights, indicators, registration plate's front &amp; rear etc.)</li> <li>• Protected ROPS required or FOPS cab structure where risk of falling objects</li> <li>• Capable of providing telematic data</li> <li>• Live anti-theft tracking system</li> <li>• Flashing amber beacons</li> <li>• All round visibility (cameras, radar, mirrors as applicable) to satisfy 1m high in all directions</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility</li> <li>• Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• Audible white noise reversing alarm fitted &amp; operational</li> <li>• Locking doors with key</li> <li>• Inclinometer / Body Up warning system</li> <li>• Articulation lock must be fitted &amp; operational</li> <li>• Mechanical prop fitted under body (Maintenance purposes only)</li> <li>• Locking caps/covers to fuel and all other tanks</li> <li>• Isolation switch with key</li> <li>• Tipping linkage must have no excessive play</li> <li>• Where access is required at height for security &amp; maintenance purposes, a suitable system must be in place to prevent falling from height</li> <li>• No tailgates unless used on public highway or specifically requested</li> <li>• Wheel nut indicators</li> <li>• Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figures</li> <li>• The equipment <b>must</b> not be more than 5 years old</li> <li>• Manufacturer instruction / operator handbook to be with machine</li> </ul>	<ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> A56 - Dump truck articulated chassis A = up to 15 tonnes B = all sizes (Senior)</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N205 –Rear tipping dumper</li> <li>• Cat B driving licence</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> </ul>

**Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred**

## Continuous Flight Auger (CFA) Piling Rig



### Core specification

Continuous flight auger piling rig capable of a boring depth between 10m and 33m and up to 1.2m diameter.

### Environmental requirements

- Must comply with **Stage V** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Equipment – Specific (continued)
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• Protected ROPS required or FOPS cab structure where risk of falling objects</li> <li>• Capable of providing telematic data</li> <li>• Flashing amber beacons</li> <li>• All round visibility (cameras, radar, mirrors as applicable) to satisfy 1m high in all directions</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility.</li> <li>• Handrails must be fitted to the lower structure for safe access to carry out maintenance</li> <li>• Safe access for refueling, maintenance and to any place where accessories are stored</li> <li>• Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• Audible white noise reversing alarm</li> <li>• Aircraft warning lights if working within 6km of airports</li> <li>• Locking doors with key</li> <li>• Deadman lever must be fitted to prevent starting when lever not engaged. No modification to the "Dead mans" handle.</li> <li>• Must be fitted with 'hold to run' levers</li> <li>• Shall have a mechanical auger cleaner fitted</li> <li>• An auger cleaner must be fitted to prevent spoil flying up the auger string and must be fitted with a secondary restraint to prevent components falling from it</li> <li>• An external 'Emergency Stop' must be fitted</li> <li>• Auger guarding shall be fitted to the mast ensuring that no one comes in contact with the rotating auger</li> <li>• Blow out adaptors shall have two air exhaust valves fitted and a pressure gauge to clearly identify the pressure within the pumping lines</li> <li>• Isolation switch with key</li> <li>• Rig instrumentation shall be fitted to the rig to control/aid with the construction of the piles and meet the specification</li> <li>• Motion alarms for slew and tracking must be fitted and operational along with a flashing amber beacon</li> </ul>	<ul style="list-style-type: none"> <li>• The concrete Loop hose over its entire length shall be doubled bagged</li> <li>• Not to be used beneath or adjacent to overhead power lines or obstructions</li> <li>• Protective mesh/guard must be installed to the window on the jib side of the cab if window is opening type</li> <li>• Rubber concrete pipes fitted at height on the rig shall have whip checks fitted to all joints</li> <li>• Suitable spill kit to be provided</li> <li>• The equipment <b>must</b> not be more than 15 years old</li> <li>• Manufacturer instruction / user handbook to be with machine</li> </ul> <p><b>Crane use:</b></p> <ul style="list-style-type: none"> <li>• A machine specific lifting duty chart must be provided with the machine</li> <li>• A 12 month report of thorough examination should be provided</li> <li>• A 6 month report of thorough examination should be provided for all lifting accessories</li> <li>• Auxiliary winch hook must be fitted with a safety catch</li> <li>• All D/Bow shackles used above 2 metres must be the Bolt Anchor Type (i.e., bolt, nut, and pin)</li> <li>• Over-hoist cut out device must be fitted and operational</li> <li>• Certified lifting points for all duties</li> <li>• Safe Load Indicator (LSI) or Rated Capacity Indicator (RCI)</li> <li>• Safe Working Load (SWL) to be clearly marked</li> <li>• Load bearing hydraulic cylinders fitted with check valves</li> </ul>
	<b>Plant Operator - Specific</b>
	<ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> A47 Piling Rig Bored - below 20 tonne <b>or</b>; A48 Piling Rig Bored – Above 20 tonne</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N221 – Piling Rig</li> <li>• Cat B driving licence</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> <li>• Evidence of familiarisation of the equipment being used</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

# Plant Specification - Minimum Mandatory Requirements

## Coil Pipe Trailer



### Core specification

Highway towable Coil Pipe trailer for carrying pipe coils from 40 mm to 180 mm MDPE or HDPE clean water, drainage water or gas pipe electricity ducting.

### Environmental requirements

- None

Plant Equipment – Specific	Plant Equipment – Specific (Continued)
<ul style="list-style-type: none"> <li>• Type approved for use on the UK public Highway in accordance with Directive 2007/46/EC (Regulation EU 2018/858) and supplied with a declaration of conformity with CE / UKCA mark (see note 1)</li> <li>• GIS E49:2008 requirements and VCA Type Approval 02 Category Trailer for use in Gas Industry</li> <li>• Overrun Braking system.</li> <li>• 40mm towing eye.</li> <li>• Break away cable.</li> <li>• Suitable number plate holder to facilitate quick change over and security of attachment.</li> <li>• Wheel nut indicators.</li> <li>• Labelled each side with tyre inflation pressure and wheel nut torque figure.</li> <li>• Jockey wheel designed to be secure in transit and maximise ground clearance i.e. above the bottom of the chassis frame.</li> <li>• Supplied with minimum of two stabiliser legs for loading and deployment of pipe.</li> <li>• Where the maximum loaded trailer height <b>exceeds 3.66m</b>, a maximum height notice shall be displayed prominently on the trailer. This shall also be attached to the <b>towing vehicle</b> in such a manner that it can be read by the driver when in the driving position.</li> <li>• Supplied with ratchet strap assemblies and pipe end restraining clamps permanently fixed to frame.</li> <li>• Must be supplied with a device for dissipating the stored energy from the pipe coil during the pipe deployment operation. (e.g., Innoflow LaySAFE, Steve Vick International Coil Control or McElroy Line Tamer)</li> <li>• Must be supplied with fixed side guards to protect the operators from inadvertent pipe coil stored energy release and guards must be provided to protect operators on both sides of the trailer.</li> <li>• Safety warning decals to be affixed to outward facing side guards, including height, weight and instructions.</li> <li>• Supplied with pipe re-rounding tool appropriate for the size of pipe being used (this can be combined with the device for removing stored energy)</li> </ul>	<ul style="list-style-type: none"> <li>• The equipment <b>must</b> not be more than 10 years old</li> <li>• Manufacturer instruction / user handbook to be with machine Supplied with pipe re-rounding tool appropriate for the size of pipe being used (this can be combined with the device for removing stored energy)</li> <li>• Suitable trailer with safe coil restraining design and meeting the additional following specific requirements e.g., V-series coil pipe trailer.</li> <li>• Low centre of gravity to improve stability.</li> <li>• Load, dispense, and operate all from ground level.</li> <li>• 12/24v Full LED Lighting.</li> </ul>
	<h3>Plant Operator - Specific</h3> <ul style="list-style-type: none"> <li>• Operators to be EUSR Coil Trailer Awareness (Gas/Water/Energy) Trained.</li> <li>• Familiarisation training on pipe dispensing attachment.</li> <li>• Familiarisation / training on Safe use of Coil Trailers</li> <li>• Crew to contain: Winch operator, Pipe trailer operator and Operator watching leading end of pipe in the trench.</li> </ul>
<p><b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b></p>	

# Plant Specification - Minimum Mandatory Requirements

## Concrete Extrusion Machine



### Core specification

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

### Environmental requirements

- Must comply with **Stage V** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen or alternative fuel, hybrid and fuel-efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Equipment – Specific (continued)
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• Report of thorough examination within past 12 months</li> <li>• Report of thorough examination within the past 6 months for all lifting accessories carried</li> <li>• Travel movement alarm to be fitted, operational and audible</li> <li>• All round visibility (Cameras, Radar, mirrors, CCTV as applicable) to satisfy 1m high in all directions</li> <li>• Audible reversing alarm</li> <li>• Isolation switch with key</li> <li>• Emergency stop button</li> <li>• Safe access for refuelling, maintenance and to any place where accessories stored</li> <li>• 'Elephant ears' rubber guards fitted to sides of concrete feeder hopper</li> <li>• Fixed guards on horizontal auger incorporating isolation switches to immobilise auger when guards are removed</li> <li>• Flashing amber beacons - front &amp; rear at a height not to interfere with driver visibility</li> <li>• Storage facilities for hand tools and lubricants etc.</li> <li>• Podium steps for access to inclined auger access steps</li> <li>• Access platform around horizontal auger to access front of auger for cleaning &amp; maintenance complete with guard rail</li> <li>• Pressure washer for cleaning off</li> <li>• Guard rails around mould platform &amp; driving platform (not chains)</li> <li>• Rubber track bumper guards</li> <li>• Fixed access ladder to mould &amp; driving platforms</li> <li>• Fixed hinged guards (4#) to inclined auger</li> <li>• Fixed hinge guard &amp; access steps across concrete feeder hopper</li> <li>• Capable of providing telematic data</li> <li>• The equipment <b>must</b> not be more than <b>10 years old</b></li> <li>• Manufacturer instruction / operator handbook to be with machine</li> </ul>	<ul style="list-style-type: none"> <li>• 2-way radio communication system</li> <li>• Guards on conveyors</li> <li>• Adjusting compensation plate</li> <li>• GPS guidance system</li> <li>• Capable of providing telematic data</li> <li>• Adequate task working lights</li> <li>• Towing facility to facilitate for lighting sets</li> <li>• If used under overhead cables or obstructions: Height restrictors with indication on machine</li> <li>• Handrail to sides of inclined auger to facilitate use of access steps</li> <li>• Steps fitted to access above guards and to mould and driving platforms</li> </ul>
	<b>Plant Operator – Specific</b>
	<ul style="list-style-type: none"> <li>• Must have evidence of appropriate training for exclusion machines.</li> <li>• Must have evidence of familiarisation training for the type of machine being operated</li> <li>• Must have evidence of pressure washer training (OPS-H-1648)</li> <li>• Cat B driving licence</li> <li>• Track category (H) if travelling on public highways, on tracks</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

# Plant Specification - Minimum Mandatory Requirements

## Concrete Pump



### Core specification

Trailer or vehicle mounted diesel driven concrete pump

### Environmental requirements

- Preference should be given to vehicles with **Euro VI** engines for anything roadgoing
- Pump must comply with **Stage IIIB or higher** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Equipment – Specific (continued)
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (whole vehicle type approval) (see note 1)</li> <li>• Public Highway compliance with C&amp;U regulations (VED registered, lights, indicators, registration plate's front &amp; rear etc.) &amp; operator 'O' licence displayed in the cab windscreen</li> <li>• Direct Vision Standard for London Low Emission Zone, must hold a DVS safety permit</li> <li>• Mirrors (including class V &amp; VI) / (cameras, radar, mirrors as applicable) to satisfy 1m high in all directions</li> <li>• Flashing amber beacons</li> <li>• Safe access for refueling, maintenance and to any place where accessories are stored</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable</li> <li>• A 12-month report of thorough examination</li> <li>• Park brake not engaged warning device</li> <li>• Audible reversing alarm</li> <li>• Locking doors with key &amp; lockable caps / covers to fuel and all other tanks</li> <li>• Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure</li> <li>• Emergency stop button</li> <li>• Independent isolation system with key</li> <li>• Wheel nut indicators &amp; if trailer mounted</li> <li>• The equipment <b>must</b> not be more than 10 years old</li> </ul> <p><b>If vehicle mounted:</b></p> <ul style="list-style-type: none"> <li>• Must have whole vehicle type approval if registered after October 2014</li> <li>• Chapter 8 compliant beacons, reflective chevrons and Highway / Motorway Maintenance signage (if applicable)</li> <li>• Current MOT plating certificate</li> <li>• Fleet Operator Recognition Scheme (FORS) - Min Bronze</li> <li>• <b>Compliant with SHE-T-402 Stop &amp; Think Instruction</b></li> <li>• Portable 'Chocks' / Wheel Stops to be manufactured to place on the ground behind the concrete pump</li> </ul>	<p><b>If trailer mounted:</b></p> <ul style="list-style-type: none"> <li>• Type approved for use on the UK public Highway in accordance with Directive 2007/46/EC</li> <li>• Overrun Braking system (for items over 750kg)</li> <li>• 40mm towing eye</li> <li>• Break away cable</li> <li>• Labelled each side with tyre inflation pressure and wheel nut torque figure</li> <li>• Manufacturer instruction / operator handbooks to be with machine</li> </ul> <p style="background-color: #00AEEF; color: white; padding: 2px;"><b>Plant Operator – Specific</b></p> <ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> A06 - Concrete Pump; Truck Mounted Boom: (LGV) A44 - Concrete Pump Trailer Mounted A72 – Static Concrete Placing Boom <b>A:</b> Up to 13m &amp; <b>B:</b> All sizes</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N211 - Concrete Pump Mobile N721 - Static Concrete Placing Boom</li> <li>• LGV Cat C driving licence</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> <li>• Evidence of training for type of pump being operated</li> </ul> <p><b>If vehicle mounted:</b></p> <ul style="list-style-type: none"> <li>• Appropriate LGV Cat C driving licence &amp; CPC qualification</li> </ul> <p><b>If trailer mounted:</b></p> <ul style="list-style-type: none"> <li>• If trailer is over 750KG, the correct driving licence category for towing and not exceed the rated capacity of the towing vehicle.</li> <li>• Pre 1997; C+E or, Post 1997; B+E and or C1+E</li> <li>• Do not tow on a public highway with a commercial vehicle as tachograph regulations will apply</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

# Plant Specification - Minimum Mandatory Requirements

## Crawler Crane



### Core specification

A 25-250t lift capacity crane consisting of an upper carriage mounted on a crawler type undercarriage with 360° rotation capability with either a box or a lattice type straight boom and optional jib (boom extension).

### Environmental requirements

- Must comply with **Stage IV or higher** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Equipment – Specific (continued)
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• Current 12-month report of thorough examination</li> <li>• Current 6-month report of thorough examination for all carried lifting tackle</li> <li>• Lifting accessories marked with SWL</li> <li>• All round visibility (cameras, radar, mirrors as applicable) to satisfy 1m high in all directions</li> <li>• Fitted with operational audible or visual overload warning system</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility</li> <li>• Handrails fitted to running boards, crane upper structure and body of crane where access is required</li> <li>• Rated Capacity Indicator (RCI)</li> <li>• Flashing amber beacons</li> <li>• White noise “travelling or tracking” alarm to be operational</li> <li>• Slew alarms (visible / audible white noise)</li> <li>• Aircraft warning lights if working within 6km of airports</li> <li>• Slew, jib height and radius restrictors if working in vicinity of overhead power lines, railways and adjacent live traffic</li> <li>• Hook block over hoist cut-out facility</li> <li>• Boom hoist cut out facility</li> <li>• Over hoist limit device installed</li> <li>• Hook fitted with safety catch</li> <li>• Load bearing hydraulic cylinders fitted with check valves</li> <li>• <b>Crane fitted with anemometer</b> to monitor in service wind speeds</li> <li>• Must have power lowering (no free fall capability)</li> <li>• Locking doors with key</li> <li>• The equipment <b>must</b> not be more than 15 years old</li> <li>• Manufacturer instruction and operator handbook to be with machine</li> <li>• Operational manual with load charts to be available with machine</li> </ul>	<ul style="list-style-type: none"> <li>• Fire extinguisher in cab if only one exit</li> <li>• Protected FOPS cab structure</li> <li>• Capable of providing telematic data</li> <li>• <b>Equipment for the Lifting of Persons – (Suspended Baskets to BE EN 14502-1)</b></li> <li>• Current 6-month report of thorough examination for the crane</li> <li>• Ability to restrict the working speed of all crane functions to 0.5m/s</li> <li>• Control levers return to neutral automatically when re-leased</li> <li>• The SWL of the crane during the lift must be at least twice the total weight of the loaded suspended basket</li> <li>• Power lowering facility fitted to crane. If not, free - fall capability must be locked out</li> <li>• Carrier hoisting and lowering ropes minimum diameter of 8mm</li> </ul>
	<b>Plant Operator - Specific</b>
	<ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> A02 Crawler Crane over 10 tonnes: <b>Plus</b> A66D Compact Crane 360 Pick and carry</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N103 – Crawler Crane</li> <li>• Cat B driving licence</li> <li>• Safety Critical Workers Medical (<b>Annually regardless of age</b>)</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Lifting equipment operator appointment (OPS-T-968) to be completed, as required or applicable, under OPS-H-900</li> <li>• Be trained in the use of specific lifting attachments</li> <li>• Have evidence of crane familiarisation training for the specific model being used</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

## Driven Piling Rig



### Core specification

As standard driven piling rigs can be fitted with 3, 4, 5 and 6 tonne hammers.

### Environmental requirements

- Must comply with **Stage V** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Equipment – Specific (continued)
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• Protected ROPS required or FOPS cab structure where risk of falling objects</li> <li>• Capable of providing telematic data</li> <li>• Flashing amber beacons</li> <li>• All round visibility (cameras, radar, mirrors as applicable) to satisfy 1m high in all directions</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility.</li> <li>• Handrails must be fitted to the lower structure for safe access to carry out maintenance</li> <li>• Safe access for refueling, maintenance and to any place where accessories are stored</li> <li>• Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• Audible white noise reversing alarm</li> <li>• Aircraft warning lights if working within 6km of airports</li> <li>• Locking doors with key</li> <li>• Deadman lever must be fitted to prevent starting when lever not engaged. No modification to the "Dead mans" handle.</li> <li>• Must be fitted with 'hold to run' levers</li> <li>• Isolation switch with key</li> <li>• Rig instrumentation shall be fitted to the rig to control/aid with the construction of the piles and meet the specification</li> <li>• Motion alarms for slew and tracking must be fitted and operational along with a flashing amber beacon</li> <li>• Not to be used beneath or adjacent to overhead power lines or obstructions</li> <li>• Protective mesh/guard must be installed to the window on the jib side of the cab if window is opening type</li> <li>• Suitable spill kit to be provided</li> <li>• The equipment <b>must</b> not be more than 15 years old</li> <li>• Manufacturer instruction / user handbook to be with machine</li> </ul>	<p><b>Crane use:</b></p> <ul style="list-style-type: none"> <li>• A machine specific lifting duty chart must be provided with the machine</li> <li>• <b>Fitted with anemometer</b> to monitor in service wind speeds</li> <li>• A 12 month report of thorough examination should be provided</li> <li>• A 6 month report of thorough examination should be provided for all lifting accessories</li> <li>• The rig shall be within 6 months of having its thorough examination <b>if the single line is to be used to lift people</b></li> <li>• Auxiliary winch hook must be fitted with a safety catch</li> <li>• All D/Bow shackles used above 2 metres must be the Bolt Anchor Type (i.e., bolt, nut, and pin)</li> <li>• The auxiliary line must be fitted with an over-hoist limit switch Safe Load Indicator (LSI) or Rated Capacity Indicator (RCI)</li> <li>• Safe Working Load (SWL) to be clearly marked</li> <li>• Load bearing hydraulic cylinders fitted with check valves</li> </ul> <p><b>Plant Operator - Specific</b></p> <ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> A45 Piling Rig Driven - below 20 tonne <b>or</b>; A46 Piling Rig Driven – Above 20 tonne</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N221 – Piling Rig</li> <li>• Cat B driving licence</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> <li>• Evidence of familiarisation of the equipment being used</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

# Plant Specification - Minimum Mandatory Requirements

## Forward Tipping Dumper



### Core specification

Below 1 tonne and up to 12.5 tonne forward and side tipping dumper wheeled or tracked.

### Environmental requirements

- Must comply with **Stage V** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Equipment – Specific (continued)
<ul style="list-style-type: none"> <li>• To aid selection, utilise the Costain guidance on Forward Tipping Dumper in SHE-H-453</li> <li>• Forward Tipping Dumpers <b>at 6 tonne and above must be cabbed</b> (Forward facing, Rotating cab or Dual View)</li> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• If used on public highway - compliance with C&amp;U regulations (VED registered, lights, indicators, registration plate's front &amp; rear etc.)</li> <li>• Brake efficiency testing to be carried out and recorded in accordance with the manufactures operator's handbook / instructions</li> <li>• Capable of providing telematic data</li> <li>• Protected ROPS and FOPS Level 2 cab structure where risk of falling objects</li> <li>• Live anti-theft tracking system</li> <li>• Flashing amber beacons</li> <li>• All round visibility (cameras, radar, mirrors as applicable) to satisfy <b>1.2m</b> high in all directions (ISO 5006:2017)</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility</li> <li>• Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• Audible white noise reversing alarm</li> <li>• Locking doors with key</li> <li>• Locking caps / covers to fuel and all other tanks</li> <li>• Wheel nut indicators</li> <li>• Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure</li> <li>• Tow hitch if fitted must have correct pin with chain attached to dumper.</li> <li>• The equipment <b>must</b> not be more than 5 years old</li> <li>• Manufacturer instruction / operator handbook to be with machine</li> </ul>	<ul style="list-style-type: none"> <li>• A rear camera must be fitted, alerting the driver/operator to persons or obstructions within the immediate proximity of the rear of the dumper</li> <li>• use of an audio visual warning device in-cab tilt monitor, for fitting to its own fleet Dual view dumpers</li> <li>•</li> </ul>
	<b>Plant Operator – Specific</b>
	<ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> A09A - Forward Tipping Dumper (wheeled) A09B - Forward Tipping Dumper (tracked)</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N139 - Forward Tipping Mini Dumper up to 1 tonne N204 - Forward Tipping Dumper</li> <li>• Cat B driving licence</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> <li>• Trained in use of type of machine being operated</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

## Generator



### Core specification

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

### Environmental requirements

- Must comply with **Stage V** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Operator – Specific
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• <b>A Power Site Survey must be carried out by the supplier to ascertain the most suitable equipment to meet the environmental requirements shown above.</b></li> <li>• Must have evidence of pre-hire inspection and “next service and or inspection due” date sticker</li> <li>• Portable frame mounted up to 3KVA</li> <li>• Portable trolley mounted above 3KVA</li> <li>• Isolation switch key for generators above 5KVA</li> <li>• Electric start for generators above 5KVA</li> <li>• Emergency stop button</li> <li>• Capable of providing telematic data</li> <li>• Use of these generators must comply with BS7671 On Site Guide (Generators).</li> <li>• 110v / 240v outlets as required with suitable protection to prevent electric shock.</li> <li>• 110v outputs should be centre tapped to earth, the phase earth voltage should not exceed 55 volts</li> <li>• Must have RCD or Residual Current Breaker with Over-current (RCBO) protection</li> <li>• Operator instructions and safety instructions should be available with equipment</li> <li>• All safety decals in place and legible</li> <li>• Towing and lifting weight to be clearly displayed on generator</li> <li>• Current 6-month report of thorough examination for central lifting eye (where applicable)</li> <li>• 40mm towing eye</li> <li>• Overrun Braking system (for items over 750kg)</li> <li>• Trailer mounted generators labelled each side with tyre inflation pressure and wheel nut torque figure (if applicable)</li> <li>• Unique ID number to be displayed</li> <li>• Proof of inspection of a fitted lifting eye from supplier prior to delivery</li> <li>• The equipment <b>must</b> not be more than 5 years old</li> <li>• Manufacturer instruction / operator handbook to be with machine</li> </ul>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Pre 1997; C+E</li> <li>• Post 1997; B+E and / or C1+E</li> <li>• Must have suitable familiarisation training including fitted accessories and attachments prior to use of equipment.</li> <li>• Safety Critical Workers Medical (when towing)</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246).</li> <li>• Do not tow on a public highway with a commercial vehicle as tachograph regulations will apply.</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

# Plant Specification - Minimum Mandatory Requirements

## Grab Lorry



### Core specification

Tipper / Tipper Grab lorry up to 32t GVW, 6 or 8 wheel configuration

### Environmental requirements

- Preference should be given to vehicles with **Euro VI** engines for anything roadgoing
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Equipment – Specific (continued)
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (whole vehicle type approval) (see note 1)</li> <li>• Public Highway compliance with C&amp;U regulations (VED registered, lights, indicators, registration plate's front &amp; rear etc.) &amp; operator 'O' licence displayed in the cab windscreen</li> <li>• Current MOT plating certificate</li> <li>• Chapter 8 compliant beacons, reflective chevrons and 'Highway / Motorway Maintenance' signs (if applicable) Amber LED warning lamps are also mounted to the rear cross member and are to be wired along with beacon lights</li> <li>• Direct Vision Standard for London Low Emission Zone. Must hold a DVS safety permit (where applicable)</li> <li>• The lorry should be Fleet Operator Recognition Scheme (FORS) - Minimum Bronze</li> <li>• 12-month report of thorough examination</li> <li>• All round visibility; Mirrors (including class V &amp; VI) / (cameras, radar, CCTV as applicable) to satisfy 1m high in all directions</li> <li>• Capable of providing telematic data</li> <li>• Live anti-theft tracking system</li> <li>• Fitted with access &amp; egress steps, including cab steps, with grab handles to ensure 3 points of contact is achievable and painted in high visibility</li> <li>• Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• Locking doors with key</li> <li>• Parking brake not engaged warning device &amp; external</li> <li>• Automated tailgate locking</li> <li>• Automated Sheeting to cover loaded materials</li> <li>• On board weighing system / Weigh loader device</li> <li>• Tipper body with integral body prop</li> <li>• Tipper body raised alarm when in motion system in cab</li> <li>• Clamshell bucket with rotator</li> <li>• Should have a Documented pre-operational check</li> <li>• <b>Compliant with SHE-T-402 Stop &amp; Think Instruction</b></li> <li>• Rear work lights and boom working lights</li> <li>• Wheel nut indicators</li> </ul>	<ul style="list-style-type: none"> <li>• Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure</li> <li>• Reversing camera &amp; audible reversing alarm</li> <li>• Body headboard access utilising crane gantry</li> <li>• Crane catwalk fall protection system / Stand up control platforms (unless fitted with remote control) height warning indicator</li> <li>• Boom above horizontal audible and visual warning</li> <li>• Load holding valve (with protective shield if applicable)</li> <li>• Isolation switch with key &amp; battery isolator</li> <li>• Locking doors with key &amp; locking caps / covers to fuel tanks</li> <li>• Toolbox mounted to n/s</li> <li>• Key - out system</li> <li>• Key switch height limiter</li> <li>• Stabilizer foot pads with storage facility</li> <li>• <b>Unmodified swing – up stabilizers with a fixed control position entrapment risk will not be permitted.</b></li> <li>• Where access is required at height for security &amp; maintenance purposes, a suitable system must be in place to prevent falling from height</li> <li>• The equipment <b>must</b> not be more than 10 years old</li> <li>• Manufacturer instruction / user handbook to be with machine</li> </ul>
	<b>Plant Operator – Specific</b>
	<ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> A36 – Lorry Loader A - Hook      B - Clamshell Bucket</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> <ul style="list-style-type: none"> <li>• N107 – Lorry Loader</li> </ul> </li> <li>• LGV Cat C driving licence</li> <li>• Shall hold a current Driver CPC qualification</li> <li>• Driver to be aware &amp; comply with Duty of Care for waste carriers</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> <li>• Trained in the use of any attachments</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

# Plant Specification - Minimum Mandatory Requirements

## Highway Towed Bowser



### Core specification

Highway use trailer mounted water / fuel bowser with a capacity of 500 – 2,000 litres

### Environmental requirements

None

Plant Equipment – Specific	Plant Operator – Specific
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 46 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (whole vehicle type approval) (see note 1)</li> <li>• Public Highway compliance with C&amp;U regulations (VED registered, lights, indicators, registration plate's front &amp; rear etc.)</li> <li>• Overrun Braking system</li> <li>• Fuel bowsers must be bunded 110% (double bunded)</li> <li>• Lockable dispensing compartment c/w hand pump dispenser with minimum 6m delivery hose</li> <li>• Automatic shut off nozzle to be fitted</li> <li>• Fuel / water level gauge</li> <li>• 40mm towing eye</li> <li>• Handbrake to be fitted</li> <li>• Off road tyres</li> <li>• Safety chain</li> <li>• Jockey wheel is designed to be secure in transit and maximise ground clearance i.e., above the bottom of the chassis frame</li> <li>• Wheel chocks to be used at all times</li> <li>• Mud guards</li> <li>• Break away cable</li> <li>• Wheeled nut indicators</li> <li>• Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure</li> <li>• Suitable spill kit to be provided</li> <li>• Must comply with LOLER and PUWER</li> <li>• The equipment <b>must</b> not be more than 10 years old</li> <li>• Manufacturer instruction / user handbook to be with machine</li> </ul>	<ul style="list-style-type: none"> <li>• If wheeled trailer weight is over 750KG, you must have the correct driving licence category for towing and not exceed the rated capacity of the towing vehicle.</li> <li>• Pre 1997; C+E</li> <li>• Post 1997; B+E and / or C1+E</li> <li>• Must have suitable familiarisation training including hitching procedure prior to use of equipment.</li> <li>• For carriage of diesel or fuel oil on the public highway, in quantities greater than 1,000 litres, the driver must be trained and hold an ADR competency and appropriate certification</li> <li>• Safety Critical Workers Medical (when towing)</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246).</li> <li>• Ensure that towing vehicle and trailer does not exceed rated capacity</li> <li>• Ensure COSHH data is available for liquids (if applicable)</li> <li>• Always operate/use the equipment in accordance with manufacturer's instructions / recommendations</li> <li>• Competent to deal with spills and environmental protection related to the cargo of the trailer</li> </ul>
<p><b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b></p>	

# Plant Specification - Minimum Mandatory Requirements

## Large Diameter Pipe (LDP) Piling Rig



### Core specification

A large diameter piling rig with a width capacity up to 3m diameter to a depth of up to 70m

### Environmental requirements

- Must comply with **Stage V** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Equipment – Specific (continued)
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• If used on public highway - compliance with C&amp;U regulations (VED registered, lights, indicators, registration plate's front &amp; rear etc.)</li> <li>• Protected ROPS required or FOPS cab structure where risk of falling objects</li> <li>• Capable of providing telematic data</li> <li>• Live anti-theft tracking system</li> <li>• Flashing amber beacons</li> <li>• All round visibility (cameras, radar, mirrors as applicable) to satisfy 1m high in all directions</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility.</li> <li>• Access steps to other parts; with 3 points of contact</li> <li>• Handrails must be fitted to the lower structure for safe access to carry out maintenance</li> <li>• Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• Audible white noise reversing alarm</li> <li>• Aircraft warning lights if working within 6km of airports</li> <li>• <b>Fitted with anemometer</b> to monitor in service wind speeds</li> <li>• Locking doors with key</li> <li>• Deadman lever must be fitted to prevent starting when lever is not engaged. No modification to the "Dead mans" handle.</li> <li>• Where access is required at height for security &amp; maintenance purposes, a suitable system must be in place to prevent falling from height</li> <li>• Rig instrumentation shall be fitted to the rig to control/aid with the construction of the piles and meet the required specification</li> <li>• Auxiliary winch hook must be fitted with a safety catch</li> <li>• Motion alarms for slew and tracking must be fitted and operational along with a flashing amber beacon</li> </ul>	<ul style="list-style-type: none"> <li>• Over hoist cut out device must be fitted and operational</li> <li>• Slew, jib height and radius restrictors if working in vicinity of overhead power lines, railways and adjacent live traffic</li> <li>• Cab and window security guards (optional)</li> <li>• Suitable spill kit to be provided</li> <li>• The equipment <b>must</b> not be more than 15 years old</li> <li>• Manufacturer instruction / user handbook to be with machine</li> </ul>
	<b>If used for Lifting – Equipment</b>
	<ul style="list-style-type: none"> <li>• A machine specific lifting duty chart must be provided with the machine</li> <li>• A 12 month report of thorough examination should be provided</li> <li>• A 6 month report of thorough examination should be provided for all lifting accessories</li> <li>• The rig shall be within 6 months of having its thorough examination <b>if the single line is to be used to lift people</b></li> <li>• Certified lifting points for all duties</li> <li>• Safe Load Indicator (LSI) or Rated Capacity Indicator (RCI)</li> <li>• Safe Working Load (SWL) to be clearly marked</li> <li>• Load bearing hydraulic cylinders fitted with check valves</li> </ul>
	<b>If used for Lifting - Operator</b>
	<ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> A47 Piling Rig Bored - below 20 tonne <b>or</b>; A48 Piling Rig Bored – Above 20 tonne</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N221 – Piling Rig</li> <li>• Cat B driving licence</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> <li>• Evidence of briefing in operation and safe use of the equipment being used in accordance with manufacturer's instructions / recommendations</li> </ul>

**Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred**

# Plant Specification - Minimum Mandatory Requirements

## Lighting Tower



### Core specification

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

### Environmental requirements

- Must comply with **Stage V** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen or alternative fuel, hybrid or Solar and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Equipment – Specific
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• Type approved for use on the UK public Highway in accordance with Directive 2007 / 46 / EC.</li> <li>• Compliance with C&amp;U regulations (VED registered, lights, indicators, registration plate's front &amp; rear etc.)</li> <li>• Capable of providing telematic data</li> <li>• Live anti-theft tracking system</li> <li>• Fitted with AMOSS system or alternative automatic mast lowering system such as multi-axis accelerometer</li> <li>• Anti-theft tracking system (in line with SLA)</li> <li>• Overrun Braking system (for items over 750kg)</li> <li>• 40mm towing eye</li> <li>• Break away cable</li> <li>• Wheel nut indicators</li> <li>• Labelled each side with tyre inflation pressure and wheel nut torque figure</li> <li>• Level indicators fitted</li> <li>• Unique ID number to be displayed</li> <li>• Noise emission label in compliance with OND 2000/14/EC</li> <li>• Towing / lifting weight to be clearly displayed</li> <li>• Wheel chocks to be supplied (towed equipment)</li> <li>• Proof of inspection of lifting lug from supplier prior to delivery</li> <li>• Current 6-month report of thorough examination for central lifting eye (where applicable)</li> <li>• Canopy to have integral fuel bunding for environmental protection</li> <li>• Isolation Switch with Key</li> <li>• Proof of inspection of lifting lug from supplier prior to delivery</li> <li>• Operator instructions must be displayed on the machine</li> </ul>	<ul style="list-style-type: none"> <li>• All safety decals in place and legible</li> <li>• The equipment <b>must</b> not be more than 5 years old</li> <li>• Manufacturer instruction / operator handbook to be with machine</li> </ul>
	Plant Operator – Specific
	<ul style="list-style-type: none"> <li>• 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</li> <li>• Must have suitable familiarisation training including fitted accessories and attachments prior to use of equipment.</li> <li>• Safety Critical Workers Medical (when towing)</li> <li>• Plant operator induction (SHE-T-247) and equipment competency assessment (SHE-T-246).</li> <li>• Do not tow on a public highway with a commercial vehicle as tachograph regulations will apply.</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

# Plant Specification - Minimum Mandatory Requirements

## Lorry Loader Crane (HIAB)



### Core specification

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

### Environmental requirements

- Preference should be given to vehicles with **Euro VI** engines for anything roadgoing.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Equipment – Specific (continued)
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (whole vehicle type approval) (see note 1)</li> <li>• Public Highway compliance with C&amp;U regulations (VED registered, lights, indicators, registration plate's front &amp; rear etc.) &amp; operator 'O' licence displayed in the cab windscreen</li> <li>• Current MOT plating certificate</li> <li>• Direct Vision Standard for London Low Emission Zone, must hold a DVS safety permit</li> <li>• <b>Only Swing-up stabiliser legs are permitted (OPS-H-900)</b></li> <li>• All round visibility; Mirrors (including class V &amp; VI) / (cameras, radar, CCTV as applicable) to satisfy 1m high in all directions</li> <li>• Chapter 8 compliant beacons, reflective chevrons and 'Highway / Motorway Maintenance' signs (if applicable)</li> <li>• The lorry should be Fleet Operator Recognition Scheme (FORS) - Minimum Bronze</li> <li>• Parking brake not engaged warning device</li> <li>• Capable of providing telematic data</li> <li>• Live anti-theft tracking system</li> <li>• Should have a Documented pre-operational check</li> <li>• <b>Compliant with SHE-T-402 Stop &amp; Think Instruction</b></li> <li>• EN 12999 compliant where the rated capacity load plate must be "clearly visible from all fixed controls stations"</li> <li>• Safe Load Indicator (LSI) or Rated Capacity Indicator (RCI)</li> <li>• Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• Wheel nut indicators</li> <li>• Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure</li> <li>• Reversing camera &amp; audible reversing alarm</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility</li> <li>• Isolation switch with key</li> <li>• Locking doors with key</li> <li>• Locking caps / covers to fuel and all other tanks</li> </ul>	<ul style="list-style-type: none"> <li>• 12-month report of thorough examination for crane</li> <li>• 6-month report of thorough examination on lifting accessories</li> <li>• Audible and visual warning to be fitted in the cab to remind driver / operator including the hydraulic arm fitted, is not safety stowed prior to travelling</li> <li>• Daylight running lights</li> <li>• Rear work lights</li> <li>• Crane catwalk fall protection system/ Stand up control platforms (unless fitted with remote control)</li> <li>• The equipment <b>must</b> not be more than 10 years old</li> <li>• Manufacturer instruction / operator handbook to be with machine</li> <li>• A machine specific lifting duty chart must be provided with the machine</li> </ul>
	<b>Plant Operator - Specific</b>
	<ul style="list-style-type: none"> <li>• <b>CPCS Category:</b> A36 Lorry Loader including relevant endorsements for attachment. A - Hook B - Clamshell Bucket C - Hydraulic Clamp</li> <li>• <b>ALLMI Lorry Loader Operator certification</b> <a href="https://www.allmi.com/operator-training/operator-training-categories.html">https://www.allmi.com/operator-training/operator-training-categories.html</a></li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N107 – Lorry Loader; or</li> <li>• Minimum of Cat C driving licence when unit over 7.5t GVW</li> <li>• Shall hold a current Driver CPC qualification</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246) or Delivery driver induction (SHE-H-702) to be completed, as required or applicable, under OPS-H-900</li> <li>• Trained in use of specific vehicle and attachments being used</li> <li>• Operator to be Traffic Management trained in 'mobile works' (Highways contract specific)</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

# Plant Specification - Minimum Mandatory Requirements

## MEWP (Boom Lift)



### Core specification

MEWPs where the vertical projection of the centre of gravity of the load may be outside the tipping lines up to 57m working height.

### Environmental requirements

- Must comply with **Stage IIIB / Hybrid or higher** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM. Indoor operation; electric, bi-energy (range extender) or hybrid
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Operator – Specific
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• Must be compliant with BS EN 280</li> <li>• Power source / engine type as required / suitable for task.</li> <li>• 6 monthly report of thorough examination</li> <li>• Flashing amber beacon</li> <li>• Capable of providing telematic data</li> <li>• Travel movement alarm to be fitted working and audible</li> <li>• Isolation switch with key</li> <li>• Operating control functions clearly marked and include direction of travel</li> <li>• Maximum gradient for safe operation must be displayed</li> <li>• Power Failure Safe Lowering System</li> <li>• SWL displayed in platform</li> <li>• Maximum permitted wind-speed for safe operations must be displayed</li> <li>• Wheel loading details including ground bearing pressure to be provided</li> <li>• Wheel nut indicators labelled each side with tyre inflation pressure and wheel nut torque figure</li> <li>• <b>All Self-Propelled Boom Lifts must have shrouded controls and have secondary guarding to prevent entrapment / crushing</b> through sustained involuntary operation of the MEWP, either through electronic and/or mechanical means.</li> <li>• <b>Mandatory use of intelligent anchor points if supplied.</b></li> <li>• Harness anchorage points in boom platform</li> <li>• The equipment <b>must</b> not be more than 5 years old</li> <li>• Manufacturer instruction and operator handbook to be with machine</li> </ul>	<ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> A26 - Mobile Elevating Working Platform B - Boom, Self Propelled</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N108 – MEWP Boom</li> <li>• <b>IPAF:</b> Cat 3b – Mobile Boom Cat 3b+ (PAL plus)</li> <li>• <b>Operators involved in high-risk trades (steel erectors, netters &amp; associated trades) shall hold as a minimum IPAF PAL+ qualification.</b></li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> <li>• Must be suitably trained and competent in the use of this type of equipment</li> <li>• Safety harness and suitable work restraint lanyard training for operator</li> <li>• Must receive a full supplier handover and familiarisation training</li> <li>• Practice of the emergency recovery procedure from the ground including provision of a second/safety person (ground person) to operate emergency lowering system</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

# Plant Specification - Minimum Mandatory Requirements

## MEWP (Scissor Lift)



### Core specification

MEWPs where the vertical projection of the centre of gravity of the load may be outside the tipping lines up to 57m working height.

### Environmental requirements

- Must comply with **Stage IIIB / Hybrid or higher** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM. Indoor operation; electric, bi-energy (range extender) or hybrid
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Operator – Specific
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• Must be compliant with BS EN 280</li> <li>• Power source / engine type as required / suitable for task.</li> <li>• 6 monthly report of thorough examination</li> <li>• Flashing amber beacon</li> <li>• Capable of providing telematic data</li> <li>• Travel movement alarm to be fitted working and audible</li> <li>• Isolation switch with key</li> <li>• Operating control functions clearly marked</li> <li>• A daily / weekly maintenance schedule must be provided</li> <li>• Direction of travel must be clearly indicated</li> <li>• Maximum gradient for safe operation must be displayed</li> <li>• Power Failure Safe Lowering System</li> <li>• SWL displayed in platform</li> <li>• Maximum permitted wind-speed for safe operations must be displayed</li> <li>• Outrigger / Wheel loading details including ground bearing pressure to be provided</li> <li>• Wheel nut indicators labelled each side with tyre inflation pressure and wheel nut torque figure</li> <li>• <b>All Scissor Lifts must have shrouded controls which limit the risk of entrapment / crushing</b> through sustained involuntary operation</li> <li>• Consideration should be given to <b>secondary guarding systems</b> such as EQSS (for operator) and SkySiren®PCS™ or similar which assist with anti-entrapment risk</li> <li>• Harness anchorage points in boom platform</li> <li>• <b>Mandatory use of intelligent anchor points if supplied (where applicable)</b></li> <li>• The equipment <b>must</b> not be more than 5 years old</li> <li>• Manufacturer instruction and operator handbook to be with machine</li> </ul>	<ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> A25 - Mobile Elevating Working Platform - Scissor</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N109 – MEWP Scissor</li> <li>• <b>IPAF:</b> Cat 3a – Mobile Vertical (Scissor Lift) Cat 3a+ (PAL plus)</li> <li>• <b>Operators involved in high-risk trades (steel erectors, netters &amp; associated trades) shall hold as a minimum IPAF PAL+ qualification.</b></li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> <li>• Must be suitably trained and competent in the use of this type of equipment</li> <li>• Safety harness and suitable work restraint lanyard training for operator</li> <li>• Must receive a full supplier handover and familiarisation training</li> <li>• Practice of the emergency recovery procedure from the ground including provision of a second/safety person (ground person) to operate emergency lowering system</li> </ul>
	<b>If used for Lifting – Equipment</b>
	<ul style="list-style-type: none"> <li>• A machine specific lifting duty chart must be provided</li> <li>• A machine specific lifting attachment – state what is being lifted</li> <li>• A report of thorough examination should be provided</li> </ul>
	<b>If used for Lifting - Operator</b>
	<ul style="list-style-type: none"> <li>• Be trained or receive familiarisation in the use of specific lifting attachments</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

# Plant Specification - Minimum Mandatory Requirements

## MEWP (Static Boom - Spider)



### Core specification

Tracked Static boom type elevating work platform to a maximum working height of 42m

### Environmental requirements

- Must comply with **Stage V / Hybrid** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM. Indoor operation; electric, bi-energy (range extender) or hybrid
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Operator - Specific
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• Must be compliant with BS EN 280</li> <li>• A power failure emergency lowering facility must be fitted</li> <li>• 6-month report of thorough examination</li> <li>• <b>All Boom Lifts must have shrouded controls and have secondary guarding to prevent entrapment / crushing</b> through sustained involuntary operation of the MEWP, either through electronic and/or mechanical means.</li> <li>• Capable of providing telematic data</li> <li>• Live anti-theft tracking system</li> <li>• All round visibility (cameras, radar, mirrors as applicable) to satisfy 1m high in all directions</li> <li>• Audible white noise reversing alarm</li> <li>• Locking caps / covers to fuel and all other tanks</li> <li>• Boom functions to be able to be isolated using a key or physical lock as applicable</li> <li>• Maximum permitted wind speed for safe operations must be displayed</li> <li>• Safety decals indicating the partial deployment of outriggers when moving machines over soft or rough ground must be fitted</li> <li>• Where the operator cage can be removed from the machine (for narrow access) a suitable approved safety mechanism must be fitted so that the cage is always secure when replaced</li> <li>• If used under or near overhead cables / obstructions: must be fitted with height &amp; slew restrictors with external indication of use</li> <li>• Outrigger loading details provided &amp; ground bearing capacity checked (where applicable)</li> <li>• Outrigger pads with a suitable handle must be provided</li> <li>• <b>Mandatory use of intelligent anchor points if supplied (where applicable)</b></li> <li>• Harness fixing points in basket</li> <li>• The equipment <b>must</b> not be more than 5 years old</li> <li>• Manufacturer instruction / user handbook to be with machine</li> </ul>	<ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> No category – IPAF only</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> No category – IPAF only</li> <li>• <b>IPAF:</b> Cat 1b – Static Boom - Spider Cat 1b+ (PAL plus)</li> <li>• Cat B driving licence</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> <li>• Must be suitably trained and competent in the use of this type of equipment</li> <li>• Safety harness and suitable work restraint lanyard training for operator</li> <li>• Must receive a full supplier handover and familiarisation training</li> <li>• Practice of the emergency recovery procedure from the ground including provision of a second/safety person (ground person) to operate emergency lowering system</li> </ul>

**Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred**

## MEWP (Vehicle Mounted)



### Core specification

Lorry or van mounted scissor or boom type elevating work platform to a maximum self-drive working height of 26m or 3.5t GVW or operated up to 70m above 3.5t GVW

### Environmental requirements

- Preference should be given to vehicles with **Euro V or VI** engines for anything roadgoing.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Equipment – Specific (continued)
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (whole vehicle type approval) (see note 1)</li> <li>• Must be compliant with BS EN 280</li> <li>• Chapter 8 compliant beacons, reflective chevrons and 'Highway / Motorway Maintenance' signage</li> <li>• Public Highway compliance with C&amp;U regulations (VED registered, lights, indicators, registration plate's front &amp; rear etc.) &amp; operator 'O' licence displayed in the cab windscreen</li> <li>• Parking brake not engaged warning device</li> <li>• Direct Vision Standard for London Low Emission Zone, must hold a DVS safety permit (where applicable)</li> <li>• 6-month report of thorough examination</li> <li>• <b>All Boom Lifts must have shrouded controls and have secondary guarding to prevent entrapment / crushing through sustained involuntary operation of the MEWP, either through electronic and/or mechanical means.</b></li> <li>• Capable of providing telematic data</li> <li>• Live anti-theft tracking system</li> <li>• All round visibility (cameras, radar, mirrors as applicable) to satisfy 1m high in all directions</li> <li>• Wheeled nut indicators</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility</li> <li>• Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• Audible white noise reversing alarm</li> <li>• Locking doors with key and locking caps / covers to fuel and all other tanks</li> <li>• Boom functions to be able to be isolated using a key or physical lock as applicable</li> <li>• Maximum permitted wind speed for safe operations must be displayed</li> <li>• Outrigger loading details provided &amp; ground bearing capacity checked (where applicable)</li> <li>• Outrigger pads with a suitable handle must be provided</li> <li>• <b>Mandatory use of intelligent anchor points if supplied (where applicable)</b></li> </ul>	<ul style="list-style-type: none"> <li>• Harness fixing points in basket</li> <li>• Where possible (if available) must have shrouded controls and secondary guarding to prevent entrapment / crushing through sustained involuntary operation of the MEWP, either through electronic and/or mechanical means.</li> <li>• Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure</li> <li>• The equipment <b>must</b> not be more than 5 years old</li> <li>• Manufacturer instruction / user handbook to be with machine</li> </ul> <p><b>If Truck Mounted</b></p> <ul style="list-style-type: none"> <li>• Current Operator licence displayed (where applicable)</li> <li>• Fleet Operator Recognition Scheme (FORS) - Minimum Bronze</li> <li>• <b>Compliant with SHE-T-402 Stop &amp; Think Instruction</b></li> </ul> <p style="background-color: #00AEEF; color: white; padding: 2px;"><b>Plant Operator - Specific</b></p> <ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> A26 - Mobile Elevating Working Platform A - Vehicle Mounted</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N108 – MEWP Boom</li> <li>• <b>IPAF:</b> Cat 1b – Vehicle mounted platforms Cat 1b+ (PAL plus)</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> <li>• Must be suitably trained and competent in the use of this type of equipment</li> <li>• Safety harness and suitable work restraint lanyard training for operator</li> <li>• Must receive a full supplier handover and familiarisation training</li> <li>• Practice of the emergency recovery procedure from the ground including provision of a second/safety person (ground person) to operate emergency lowering system</li> <li>• Must have a current relevant driving licence for the equipment being used. Minimum Category B, if unit is over 7.5t GVW, a Minimum of LGV Category "C" driving licence is required plus: Shall hold a current Driver CPC qualification (LGV)</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

## MEWP PAV (Push Around Vertical)



### Core specification

Push Around Vertical. Push around vertical machines are small static vertical platforms that are manoeuvred by push, rather than an engine. Manual wind up to a maximum working height of 9.5m, for use both internally and externally.

### Environmental requirements

- IPAF PAV (Push Around Vertical) machines do not have an engine. They are manually pushed into position, rather than relying on a motor for movement.

Plant Equipment – Specific	Plant Operator – Specific
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• Must be compliant with BS EN 280</li> <li>• 6 monthly report of thorough examination</li> <li>• Flashing amber beacon (when used externally)</li> <li>• Operating control functions clearly marked</li> <li>• Maximum gradient for safe operation must be displayed</li> <li>• Equipment failure safe lowering system</li> <li>• SWL displayed in platform</li> <li>• Maximum permitted wind-speed for safe operations must be displayed</li> <li>• Wheel loading details including ground bearing pressure to be provided</li> <li>• Wheel nut indicators labelled each side with tyre inflation pressure and wheel nut torque figure (where applicable)</li> <li>• Mandatory use of intelligent anchor points if supplied (where applicable)</li> <li>• Harness anchorage points in boom platform (when used in conjunction with risk assessment)</li> <li>• The equipment <b>must</b> not be more than 5 years old</li> <li>• Manufacturer instruction and operator handbook to be with machine</li> </ul>	<ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> No category – IPAF only</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> No category – IPAF only</li> <li>• <b>IPAF:</b> <ul style="list-style-type: none"> <li>• Cat 1b – Static Boom (Must have PAV familiarisation)</li> <li>• Cat 3a – Scissor Lift (Must have PAV familiarisation)</li> <li>• Cat 3b – Mobile Boom (Must have PAV familiarisation)</li> <li>• Cat 3b+ (PAL plus) (Must have PAV familiarisation)</li> <li>• Cat PAV</li> </ul> </li> <li>• Safety Critical Workers Medical (advised)</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> <li>• Must be suitably trained and competent in the use of this type of equipment</li> <li>• Safety harness and suitable work restraint lanyard training for operator (by risk assessment)</li> <li>• Must receive a full supplier handover and familiarisation training</li> <li>• Practice of the emergency recovery procedure from the ground</li> </ul>
	<b>If used for Lifting – Equipment</b>
	<ul style="list-style-type: none"> <li>• A machine specific lifting duty chart must be provided</li> <li>• A report of thorough examination should be provided</li> </ul>
	<b>If used for Lifting - Operator</b>
	<ul style="list-style-type: none"> <li>• Be trained in the use of specific lifting attachments</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

## MEWP Vertical Lift (Mobile)



### Core specification

Electric powered elevating work platform either 110v / battery powered up to a general working height of 7m, for use both internally or externally

### Environmental requirements

- Electric

Plant Equipment – Specific	Plant Operator – Specific
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• Must be compliant with BS EN 280</li> <li>• 6 monthly report of thorough examination</li> <li>• Flashing amber beacon (when used externally)</li> <li>• Operating control functions clearly marked</li> <li>• Maximum gradient for safe operation must be displayed</li> <li>• Equipment failure safe lowering system</li> <li>• SWL displayed in platform</li> <li>• Maximum permitted wind-speed for safe operations must be displayed</li> <li>• Wheel loading details including ground bearing pressure to be provided</li> <li>• Wheel nut indicators labelled each side with tyre inflation pressure and wheel nut torque figure (where applicable)</li> <li>• <b>Must have shrouded controls and have secondary guarding to prevent entrapment / crushing</b> through sustained involuntary operation of the MEWP, either through electronic and/or mechanical means.</li> <li>• <b>Mandatory use of intelligent anchor points if supplied (where applicable)</b></li> <li>• Harness anchorage points in boom platform (when used in conjunction with risk assessment)</li> <li>• The equipment <b>must</b> not be more than 5 years old</li> <li>• Manufacturer instruction and operator handbook to be with machine</li> </ul>	<ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> No category – IPAF only</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> No category – IPAF only</li> <li>• <b>IPAF:</b> Cat 3a – Vertical personnel platforms (mobile) Cat 3a+ (PAL plus)</li> <li>• Safety Critical Workers Medical (advised)</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> <li>• Must be suitably trained and competent in the use of this type of equipment</li> <li>• Safety harness and suitable work restraint lanyard training for operator (by risk assessment)</li> <li>• Must receive a full supplier handover and familiarisation training</li> <li>• Practice of the emergency recovery procedure from the ground including provision of a second/safety person (ground person) to operate emergency lowering system</li> </ul>
	<h4 data-bbox="812 1409 1541 1438">If used for Lifting – Equipment</h4> <ul style="list-style-type: none"> <li>• A machine specific lifting duty chart must be provided</li> <li>• A report of thorough examination should be provided</li> </ul>
	<h4 data-bbox="812 1562 1541 1591">If used for Lifting - Operator</h4> <ul style="list-style-type: none"> <li>• Be trained in the use of specific lifting attachments</li> </ul>
<p><b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b></p>	

# Plant Specification - Minimum Mandatory Requirements

## Mini Excavator



### Core specification

0.75 – 8 tonne rubber or steel tracked 360° mini excavator

### Environmental requirements

- Must comply with Stage IIIB (<56kW) **Stage IV or higher** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Operator – Specific
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• Protected tip over cab structure (TOPS) (1 to 6 tonne) required or ROPS for over 6 tonne and FOPS cab structure where risk of falling objects</li> <li>• Extendable tracks for machines three tonnes and below</li> <li>• 12-month report of thorough examination</li> <li>• Capable of providing telematic data</li> <li>• Live anti-theft tracking system</li> <li>• Flashing amber beacons</li> <li>• All round visibility (cameras, radar, mirrors as applicable) to satisfy 1m high in all directions</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility</li> <li>• Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• Audible white noise reversing alarm</li> <li>• Locking doors with key</li> <li>• Deadman lever must be fitted to prevent operation when lever is not engaged</li> <li>• Buckets to be supplied as required</li> <li>• Where access is required at height for security &amp; maintenance purposes, a suitable system must be in place to prevent falling from height</li> <li>• If used under or near overhead cables / obstructions: must be fitted with height &amp; slew restrictors with external indication of use as applicable</li> <li>• Cab and window security guards (optional)</li> <li>• Quick hitch must be automatic double locking (5 tonne and over) Below 5 tonne, can be twin locking fully automatic quick hitch devices, manual quick hitch or direct mounted</li> <li>• Have an in-cab warning alarm where quick hitch fitted, for detachment (generally 1.5t and above)</li> <li>• Suitable spill kit to be provided</li> <li>• Must comply with LOLER and PUWER</li> <li>• The equipment <b>must</b> not be more than 5 years old</li> <li>• Manufacturer instruction / user handbook to be with machine</li> </ul>	<ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> A58A Excavator 360° below 10 tonne</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N202 - Excavator 360° N016 Micro Excavator 360° up to 1 tonne</li> <li>• Cat B driving licence</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> <li>• Trained in use of any fitted quick hitch and attachments and height and slew restrictors</li> </ul>
	If used for Lifting – Equipment
	<ul style="list-style-type: none"> <li>• A machine specific lifting duty chart must be provided with the machine</li> <li>• A 12 month report of thorough examination should be provided</li> <li>• A 6 month report of thorough examination should be provided for all lifting accessories</li> <li>• Certified lifting points for all duties</li> <li>• Safe Load Indicator (LSI) or Rated Capacity Indicator (RCI)</li> <li>• Safe Working Load (SWL) to be clearly marked</li> <li>• Check Valves must be fitted to boom and dipper arm circuits</li> </ul>
	If used for Lifting - Operator
	<ul style="list-style-type: none"> <li>• Lifting with excavator operator assessment to be completed</li> <li>• Be trained in the use of specific lifting attachments</li> <li>• <b>CPCS Category:</b> A58C Lifting Operations below 10 tonne</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N100 - Excavator as a Crane</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

# Plant Specification - Minimum Mandatory Requirements

## Mini Rotary Piling Rig



### Core specification

Diesel powered tracked mini rotary rig capable of CFA, Rock Anchor, DTH, Supa Jaw, Micro Piling, Odex Drilling, Soil Nailing applications

### Environmental requirements

- Must comply with **Stage V** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Equipment – Specific (continued)
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• Ability to restrict the working speed of the rotation whilst gate is open</li> <li>• Safety gate to be in place at all times</li> <li>• Not to be used beneath or adjacent to overhead power lines or obstructions</li> <li>• Computer monitored piling system to be fitted</li> <li>• GPS tracker unit installed</li> <li>• Locking caps/covers to fuel and all other tanks</li> <li>• Remote Control Loading/Unloading</li> <li>• Remote Control Operation (All Functions)</li> <li>• Seat belt operation interlocked with ignition switch / warning indicator</li> <li>• Motion alarms for slew and tracking must be fitted and operational.</li> <li>• Dead man button</li> <li>• Rig instrumentation shall be fitted to the rig to control / aid the construction of the piles.</li> <li>• Capable of providing telematic data</li> <li>• Live anti-theft tracking system</li> <li>• Flashing amber beacons</li> <li>• All round visibility (cameras, radar, mirrors as applicable) to satisfy 1m high in all directions</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility</li> <li>• Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• Audible white noise reversing alarm</li> <li>• Suitable spill kit to be provided</li> <li>• Must comply with LOLER and PUWER</li> <li>• The equipment <b>must</b> not be more than 15 years old</li> <li>• Manufacturer instruction / user handbook to be with machine</li> </ul>	<ul style="list-style-type: none"> <li>• A machine specific lifting duty chart must be provided with the machine</li> <li>• 4 yearly proof load test on auxiliary winch</li> <li>• A 12 month report of thorough examination should be provided</li> <li>• A 6 month report of thorough examination should be provided for all lifting accessories</li> <li>• Over-hoist cut out device must be fitted and operational</li> <li>• Auxiliary winch hook must be fitted with a safety catch</li> <li>• All D/Bow Shackles used above 2 metres must be the Bolt Anchor Type (i.e. bolt, nut and pin)</li> <li>• Safe Load Indicator (LSI) or Rated Capacity Indicator (RCI)</li> <li>• Safe Working Load (SWL) to be clearly marked</li> <li>• Check Valves must be fitted to boom and dipper arm circuits</li> </ul>
	<b>Plant Operator - Specific</b>
	<ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> A47 - Piling Rig Bored - below 20 tonne <b>or</b>; A48 - Piling Rig Bored – Above 20 tonne A74 - Piling Rig Attendant</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N221 – Piling Rig</li> <li>• Operator to be Crane lift supervisor trained (desirable)</li> <li>• Cat B driving licence</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> <li>• Evidence of familiarisation of the equipment being used</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

# Plant Specification - Minimum Mandatory Requirements

## Mixer Truck



### Core specification

Vehicle mounted concrete / cement mixer up to 8m<sup>3</sup> capacity (33t GVW)

### Environmental requirements

- Preference should be given to vehicles with **Euro VI engines** for anything roadgoing
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Operator – Specific
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006/42/EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• Chapter 8 compliant beacons, reflective chevrons and “Highway / Motorway Maintenance signs” (if applicable)</li> <li>• Public Highway compliance with C&amp;U regulations (VED registered, working Lights, indicators, registration plate’s front &amp; rear etc.)</li> <li>• Direct Vision Standard for London Low Emission Zone, must hold a DVS safety permit</li> <li>• Current Operator licence displayed</li> <li>• Current MOT plating certificate</li> <li>• <b>Compliant with SHE-T-402 Stop &amp; Think Instruction</b></li> <li>• Fleet Operator Recognition Scheme (FORS) - Minimum Bronze</li> <li>• Mirrors (including class V &amp; VI) / (cameras, radar, mirrors, CCTV as applicable) to satisfy 1m high in all directions</li> <li>• Capable of providing telematic data</li> <li>• Seat belts must be fitted and operational</li> <li>• White noise reversing alarm</li> <li>• Isolation switch with key</li> <li>• Park brake not engaged warning device</li> <li>• Locking doors with key &amp; locking caps / covers to fuel and all other tanks</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility</li> <li>• Where access is required at height for security &amp; maintenance purposes, suitable system must be in place to prevent falling from height</li> <li>• Wheel nut indicators</li> <li>• Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure</li> <li>• Rear work lights</li> <li>• Fire extinguisher fitted in cab</li> <li>• First aid kit and eyewash in cab</li> <li>• Suitable spill kit to be provided</li> <li>• The equipment <b>must</b> not be more than 10 years old</li> <li>• Manufacturer instruction / user handbook to be with machine</li> </ul>	<ul style="list-style-type: none"> <li>• Minimum of Category “C” driving licence when unit over 7.5t GVW</li> <li>• Shall hold a current Driver CPC qualification</li> <li>• Safety critical medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246) or Delivery driver induction (SHE-H-702) to be completed, as required or applicable</li> <li>• Demonstrable training and experience in operation of mixer truck</li> <li>• Trained in use of specific vehicle being used</li> <li>• Operator to be Traffic Management trained in ‘mobile works’ (Highways contract specific)</li> <li>• Hand and skin dermatitis protection / monitoring</li> <li>• Trained in use of spill kits</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

# Plant Specification - Minimum Mandatory Requirements

## Mobile Crane



### Core specification

A 25 -1000t lift capacity self-propelled, vehicle mounted crane, cable controlled or hydraulic-powered crane with a telescoping boom

### Environmental requirements

- Preference should be given to vehicles with **Euro VI engines** for anything roadgoing.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Equipment – Specific (continued)
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• Protected FOPS cab structure</li> <li>• Current 12-month report of thorough examination</li> <li>• Current 6-month report of thorough examination for all carried lifting tackle</li> <li>• Capable of providing telematic data</li> <li>• Flashing amber beacons</li> <li>• All round visibility (cameras, radar, mirrors as applicable) to satisfy 1m high in all directions</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility</li> <li>• Fitted with operational audible or visual overload warning system</li> <li>• Over hoist limit device installed</li> <li>• Operational manual with load charts to be available with crane</li> <li>• Rated Capacity Indicator (RCI)</li> <li>• Audible white noise reversing alarm to be fitted &amp; operational</li> <li>• Slew alarms (visible / audible white noise)</li> <li>• Aircraft warning lights if working within 6km of airports</li> <li>• Slew, jib height and radius restrictors if working in vicinity of overhead power lines, railways and adjacent live traffic</li> <li>• Hook block over hoist cut-out facility</li> <li>• Hook fitted with safety catch</li> <li>• Boom hoist cut out facility</li> <li>• Load bearing hydraulic cylinders fitted with check valves</li> <li>• <b>Crane fitted with anemometer</b> to monitor in service wind speeds</li> <li>• Must have power lowering (no free fall capability)</li> <li>• Locking doors with key</li> <li>• Fire extinguisher in cab if only one exit</li> <li>• All road wheels to be fitted with wheel nut indicators</li> <li>• The equipment <b>must</b> not be more than 15 years old</li> <li>• Manufacturer instruction / operator handbook to be with machine</li> </ul>	<ul style="list-style-type: none"> <li>• Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure</li> <li>• Sectional / Lightweight or circular outrigger pads if manually handled to reduce risk to personnel</li> <li>• Audible handbrake alarm to warn operator that handbrake is not applied</li> <li>• Operational manual with load charts to be available with machine</li> <li>• <b>Equipment for the Lifting of Persons – (Suspended Baskets to BE EN 14502-1)</b></li> <li>• Current 6 month report of thorough examination for the crane</li> <li>• Ability to restrict the working speed of all crane functions to 0.5m/s</li> <li>• Control levers return to neutral automatically when re-leased</li> <li>• The SWL of the crane during the lift must be at least twice the total weight of the loaded suspended basket</li> <li>• Power lowering facility fitted to crane. If not, free - fall capability must be locked out</li> <li>• Carrier hoisting and lowering ropes minimum diameter of 8mm</li> <li>• Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• If used under or near overhead cables / obstructions: must be fitted with height &amp; slew restrictors with external indication of use</li> </ul>
	<b>If used for Lifting - Operator</b>
	<ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> A60C All Duties: A – Blocked Duties only B – Pick and carry duties only</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N101 – Mobile Crane</li> <li>• Cat B driving licence</li> <li>• Safety Critical Workers Medical (<b>Annually regardless of age</b>)</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Lifting equipment operator appointment (OPS-T-968) to be completed, as required or applicable, under OPS-H-900</li> <li>• Trained in use of category of crane being used</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

# Plant Specification - Minimum Mandatory Requirements

## Mobile Crushing Plant



### Core specification

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

### Environmental requirements

- Must comply with **Stage V** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Mobile crushing and screening is a 'Part B' activity under the local authority pollution prevention and control (LAPPC) regime.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Operator – Specific
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• Capable of providing telematic data</li> <li>• Operating control functions clearly marked (machine and remote device)</li> <li>• All safety decals in place and legible</li> <li>• Remote control capability</li> <li>• Isolation switch with key</li> <li>• Audible white noise movement and reversing alarm</li> <li>• Flashing Amber beacons</li> <li>• All moving parts to be adequately guarded</li> <li>• Where access is required at height for security &amp; maintenance purposes, suitable handrails must be in place to prevent falling from height</li> <li>• Main control panel lockable by multi locking arrangements to facilitate safe maintenance</li> <li>• Emergency stop controls to be available at various locations around the machine</li> <li>• Trip wire required along the conveyor at any sections not fully guarded</li> <li>• Guards to be fitted with interlock switches to prevent operation with guards removed</li> <li>• Automatic greasing</li> <li>• Working platform on machine for maintenance and inspection to be in good order with edge protection intact</li> <li>• The equipment <b>must</b> not be more than 10 years old</li> <li>• Manufacturer instruction and operator handbook to be with machine</li> </ul>	<ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> A42 – Crusher</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N207 - Crusher</li> <li>• Cat B driving licence</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> <li>• Trained in isolation and stalled crusher procedures</li> </ul>
	<b>When crushing</b>
	<ul style="list-style-type: none"> <li>• Effective belt scrapers to prevent build-up of material on conveyor.</li> <li>• Mechanical means to remove blockage, operated re-motely</li> <li>• Water mist dust suppression fitted and operational</li> <li>• Ramp to loading hopper to be effectively banded</li> <li>• Physical 5m exclusion zone, e.g. 2m high HERAS® panels to be erected around the crushing area</li> </ul>
	<b>Permits</b>
	<ul style="list-style-type: none"> <li>• Environmental permits / exemptions from the local planning authority and Environment Agency must be in place prior to crushing.</li> <li>• Crusher to be registered with Environment Agency (EA) / Scottish Environment Protection Agency (SEPA)</li> <li>• The Aggregates Quality Protocol needs to be adhered to if the intention is to produce a material.</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

# Plant Specification - Minimum Mandatory Requirements

## Motorised Grader



### Core specification

Motorised graders for road construction, site prep, and material moving

### Environmental requirements

- Must comply with **Stage V** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Operator – Specific
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• If used on public highway - compliance with C&amp;U regulations (VED registered, lights, indicators, registration plate's front &amp; rear etc.)</li> <li>• Protected ROPS required or FOPS cab structure where risk of falling objects</li> <li>• Capable of providing telematic data</li> <li>• Live anti-theft tracking system</li> <li>• Flashing amber beacons</li> <li>• All round visibility (cameras, radar, mirrors as applicable) to satisfy 1m high in all directions</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility</li> <li>• Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• Audible white noise reversing alarm</li> <li>• Locking doors with key</li> <li>• Where access is required at height for security &amp; maintenance purposes, suitable system must be in place to prevent falling from height</li> <li>• Cab and window security guards (optional)</li> <li>• Must comply with LOLER and PUWER</li> <li>• The equipment <b>must</b> not be more than 10 years old</li> <li>• Manufacturer instruction / user handbook to be with machine</li> </ul>	<ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> A19 - Grader</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N240 – Motorised Grader</li> <li>• Cat B driving licence</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

# Plant Specification - Minimum Mandatory Requirements

## Motorised Scraper



### Core specification

Various sizes of machine either twin engine or single engine requiring push operation from rear of machine or pulled by another motorised scraper for bulk earthmoving operations.

### Environmental requirements

- Must comply with **Stage V** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Operator – Specific
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• Protected ROPS required or FOPS cab structure where risk of falling objects</li> <li>• Capable of providing telematic data</li> <li>• Live anti-theft tracking system</li> <li>• Flashing amber beacons</li> <li>• All round visibility (cameras, radar, mirrors as applicable) to satisfy 1m high in all directions</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility</li> <li>• Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• Audible white noise reversing alarm</li> <li>• Locking doors with key (cabbed)</li> <li>• Where access is required at height for security &amp; maintenance purposes, suitable system must be in place to prevent falling from height</li> <li>• Cab and window security guards (optional)</li> <li>• Suitable spill kit to be provided</li> <li>• Must comply with LOLER and PUWER</li> <li>• The equipment <b>must</b> not be more than 10 years old</li> <li>• Manufacturer instruction / user handbook to be with machine</li> </ul>	<ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> A24 – Motorised Scraper</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N223 – Scraper</li> <li>• Cat B driving licence</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

# Plant Specification - Minimum Mandatory Requirements

## Paver



### Core specification

Tracked or wheeled paving machine for road building (bituminous or concrete)

### Environmental requirements

- Must comply with **Stage V** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Operator – Specific
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• If used on public highway - compliance with C&amp;U regulations (VED registered, lights, indicators, registration plate's front &amp; rear etc.)</li> <li>• Protected ROPS required or FOPS cab structure where risk of falling objects</li> <li>• Capable of providing telematic data</li> <li>• Live anti-theft tracking system</li> <li>• Flashing amber beacons front and rear at a height not to interfere with driver visibility.</li> <li>• Adequate task working lights.</li> <li>• Emergency stop fitted to hopper sides.</li> <li>• Solid guard rails around raised working areas</li> <li>• Steps fitted to access operating platform.</li> <li>• Storage facilities for hand tools and lubricants etc.</li> <li>• All round visibility (cameras, radar, mirrors as applicable) to satisfy 1m high in all directions</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility</li> <li>• Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• Audible white noise reversing alarm</li> <li>• Locking doors with key</li> <li>• Buckets to be supplied as required</li> <li>• Where access is required at height for security &amp; maintenance purposes, a suitable system must be in place to prevent falling from height</li> <li>• Fire extinguishers to be carried</li> <li>• Must comply with LOLER and PUWER</li> <li>• The equipment <b>must</b> not be more than 10 years old</li> <li>• Manufacturer instruction / user handbook to be with machine</li> </ul>	<ul style="list-style-type: none"> <li>• <b>CSCS card category:</b> Level 2 NVQ Diploma in Construction Operations and Civil Engineering Services – Roadbuilding (Construction) – Bituminous Paving (Machine) <b>or;</b> Level 2 MPQC Assessed/Competent Operator, Road Surfacing</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N220 - Paver</li> <li>• Cat B driving licence</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

# Plant Specification - Minimum Mandatory Requirements

## Plant Trailer (Highway specification)



### Core specification

Twin axled trailer from 1 tonne to 3.5 tonne capacity, for the carrying of small plant equipment, materials and associated items

### Environmental requirements

- None

Plant Equipment – Specific	Plant Equipment – Specific (continued)
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 46 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• Public Highway compliance with C&amp;U regulations (VED registered, lights, indicators, registration plate fitted to rear.</li> <li>• Overrun Braking system</li> <li>• 40mm towing eye</li> <li>• Break away cable</li> <li>• Suitable non-slip floor</li> <li>• Loading angle to be optimised although extra-long ramps are not desirable</li> <li>• The maximum approach angle of the tail gate shall not exceed 13 degrees</li> <li>• The tail gate shall incorporate side plates designed to prevent tracked or wheeled plant slipping off the side</li> <li>• The tail gate shall also provide adequate traction for plant and pedestrian access in adverse weather conditions and where mud/clay has contaminated surfaces</li> <li>• Anti-rattle tail gate fasteners</li> <li>• Integral lashing points located inside the trailer body (must be load tested &amp; certified)</li> <li>• Mud guards and mud flaps to be fitted</li> <li>• Suitable number plate holder to facilitate quick change over and security of attachment</li> <li>• Wheel nut indicators</li> <li>• Labelled each side with tyre inflation pressure and wheel nut torque figure</li> <li>• Jockey wheel designed to be secure in transit and maximise ground clearance i.e. above the bottom of the chassis frame</li> <li>• Compensating/adjustable towing coupling to allow a range of towing connection heights</li> <li>• Trailers manufactured prior to April 2015</li> <li>• Minimum Wheel Stud configuration:                             <ul style="list-style-type: none"> <li>- 4 x M12 stud configuration on a 4.5" PCD hub</li> </ul> </li> <li>• Trailers manufactured post April 2015</li> <li>• Minimum of 5 x M12 stud configuration on a 5.5" PCD Hub</li> </ul>	<ul style="list-style-type: none"> <li>• Wheel chocks</li> <li>• Wheeled nut indicators</li> <li>• Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure</li> <li>• Must comply with LOLER and PUWER</li> <li>• Nose weight indicator (optional)</li> <li>• Track stops (optional)</li> <li>• Security wheel clamps (optional)</li> <li>• Tow hitch lock (optional)</li> <li>• LED lights in lieu of bulbs, should be able to work with towing vehicle without need for retro fit resistor packs. (optional)</li> <li>• The equipment <b>must</b> not be more than 10 years old</li> <li>• Manufacturer instruction / user handbook to be with machine</li> </ul>
	Plant Operator - Specific
	<ul style="list-style-type: none"> <li>• If wheeled trailer weight is over 750KG, you must have the correct driving licence category for towing and not exceed the rated capacity of the towing vehicle.</li> <li>• Pre 1997; C+E</li> <li>• Post 1997; B+E and / or C1+E</li> <li>• Must have suitable familiarisation training including hitching procedure prior to use of equipment.</li> <li>• Load positioning - ensure load is correctly positioned to prevent nose overload</li> <li>• Load security – load must be securely tied down by approved methods</li> <li>• Safety Critical Workers Medical (when towing)</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246).</li> <li>• Ensure that towing vehicle and trailer does not exceed rated capacity</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

# Plant Specification - Minimum Mandatory Requirements

## Rigid or Articulated Rear Tipping Dumper



### Core specification

Self-propelled, diesel powered rigid or articulated rear tipping dump truck from 6t to 13t.

### Environmental requirements

- Must comply with **Stage V** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Operator – Specific
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• If used on public highway - compliance with C&amp;U regulations (VED registered, lights, indicators, registration plate's front &amp; rear etc.)</li> <li>• Protected ROPS required or FOPS cab structure where risk of falling objects</li> <li>• Capable of providing telematic data</li> <li>• Live anti-theft tracking system</li> <li>• Flashing amber beacons</li> <li>• All round visibility (cameras, radar, mirrors as applicable) to satisfy 1m high in all directions</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility</li> <li>• Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• Audible white noise reversing alarm fitted &amp; operational</li> <li>• Locking doors with key</li> <li>• Inclinator / Body Up warning system</li> <li>• Articulation lock must be fitted &amp; operational</li> <li>• Mechanical prop fitted under body (Maintenance purposes only)</li> <li>• Locking caps/covers to fuel and all other tanks</li> <li>• Isolation switch with key</li> <li>• Tipping linkage must have no excessive play</li> <li>• Where access is required at height for security &amp; maintenance purposes, suitable system must be in place to prevent falling from height</li> <li>• No tailgates unless used on public highway or specifically requested</li> <li>• Wheel nut indicators</li> <li>• Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figures</li> <li>• The equipment <b>must</b> not be more than 5 years old</li> <li>• Manufacturer instruction / operator handbook to be with machine</li> </ul>	<ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> <ul style="list-style-type: none"> <li>A56 - Dump truck articulated chassis                             <ul style="list-style-type: none"> <li>A = up to 15 tonnes</li> <li>B = all sizes (Senior)</li> </ul> </li> <li>A57 - Dump truck rigid chassis                             <ul style="list-style-type: none"> <li>A = Up to 15 tonnes</li> <li>B = Up to 50 tonnes</li> <li>C = All sizes wheeled (Senior)</li> <li>D = All sizes tracked (separate)</li> </ul> </li> </ul> </li> <li>• <b>NPORS (CSCS Logo endorsed):</b> <ul style="list-style-type: none"> <li>N205 –Rear tipping dumper</li> </ul> </li> <li>• Cat B driving licence</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

# Plant Specification - Minimum Mandatory Requirements

## Ride on Roller



### Core specification

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

### Environmental requirements

- Must comply with **Stage IV or higher** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Operator – Specific
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• If used on public highway - compliance with C&amp;U regulations (VED registered, lights, indicators, registration plate's front &amp; rear etc.)</li> <li>• Small rollers ROPS (where no cab fitted)</li> <li>• Large machines ROPS and FOPs cab structure where risk of falling objects</li> <li>• Cab Care System (if fitted with cab)</li> <li>• Capable of providing telematic data</li> <li>• Live anti-theft tracking system</li> <li>• Flashing amber beacons</li> <li>• All round visibility (cameras, radar, mirrors as applicable) to satisfy 1m high in all directions</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility</li> <li>• Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• Audible white noise reversing alarm</li> <li>• Locking doors with key - for all glazed cab machines</li> <li>• Locking caps / covers to fuel and all other tanks</li> <li>• Fitted with front &amp; rear scraper bars on drum(s)</li> <li>• Integral water supply to drum (where applicable)</li> <li>• Isolation switch with key</li> <li>• Under seat starter / isolator pressure switch</li> <li>• Wheeled nut indicators (for single drum ride on roller)</li> <li>• Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure</li> <li>• The equipment <b>must</b> not be more than 5 years old</li> <li>• Manufacturer instruction / user handbook to be with machine</li> </ul>	<ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> A31 Ride on Roller</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N214 – Road Roller</li> <li>• Cat B driving licence</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

## Road Planer



### Core specification

Four standard platform sizes 350mm, 500mm+ drum width (wheeled), 1000mm+, 2000mm+ drum width (tracked)

### Environmental requirements

- Must comply with **Stage V** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Equipment – Specific (continued)
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• Adequate task working lights.</li> <li>• Emergency stops at operator stations and external positions</li> <li>• Flashing amber beacons/strobe lights to front and rear, positioned so not to interfere with the operator's visibility.</li> <li>• Solid guard rails around raised working areas. Handrails to be Hi Viz.</li> <li>• Integrated levelling system on machines 500mm drum width and above if available 1m cutting width.</li> <li>• Adjustable rotor speed control.</li> <li>• Rotor auto stop system during reverse site movement</li> <li>• 360° night lighting around the machine.</li> <li>• Automatic Rotor lock out when Mould board lifted for service access.</li> <li>• Automatic travel lock out when Mould board lifted for service access.</li> <li>• Mechanical safety lock to hold mould board in service position.</li> <li>• Dust reduction system fitted, operational and used, on machines of 1m drum width and above</li> <li>• Spill kits at operators' station</li> <li>• Illuminated control panel/night design Scraper height indicator on control panel</li> <li>• Capable of providing telematic data</li> <li>• All round visibility (cameras, radar, mirrors as applicable) to satisfy 1m high in all directions</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility</li> <li>• Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• Audible white noise reversing alarm</li> <li>• Deadman lever must be fitted to prevent starting when lever not engaged</li> </ul>	<ul style="list-style-type: none"> <li>• Where access is required at height for security &amp; maintenance purposes, a suitable system must be in place to prevent falling from height</li> <li>• If used under or near overhead cables / obstructions: must be fitted with height &amp; slew restrictors with external indication of use</li> <li>• Must comply with LOLER and PUWER</li> <li>• The equipment <b>must</b> not be more than 10 years old</li> <li>• Manufacturer instruction / user handbook to be with machine</li> </ul>
	<b>Plant Operator - Specific</b>
	<ul style="list-style-type: none"> <li>• <b>CSCS card category:</b> Level 2 NVQ Diploma in Roadbuilding and Maintenance (Construction) - Plant - Planing (Machine) <b>or</b>; Level 2 MPQC Assessed/Competent Operator, Road Surfacing</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N216 – Road Planer</li> <li>• Cat B driving licence</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

## Road Sweeper / Gully Sucker



### Core specification

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

### Environmental requirements

- Preference should be given to vehicles with **Euro VI engines** for anything roadgoing.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Equipment – Specific (continued)
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• Public Highway compliance with C&amp;U regulations (VED registered, lights, indicators, registration plate's front &amp; rear etc.) &amp; operator 'O' licence displayed in the cab windscreen</li> <li>• Current MOT plating certificate</li> <li>• Direct Vision Standard for London Low Emission Zone, must hold a DVS safety permit</li> <li>• All round visibility; Mirrors (including class V &amp; VI) / (cameras, radar, mirrors, CCTV as applicable) to satisfy 1m high in all directions</li> <li>• Chapter 8 compliant beacons, reflective chevrons and 'Highway / Motorway Maintenance' signs" (if applicable)</li> <li>• The lorry should be Fleet Operator Recognition Scheme (FORS) - Minimum Bronze</li> <li>• <b>Compliant with the SHE-T-402 Stop &amp; Think Instruction</b></li> <li>• Park brake not engaged warning device</li> <li>• Capable of providing telematic data</li> <li>• Live anti-theft tracking system</li> <li>• Flashing amber beacons</li> <li>• All round visibility (cameras, radar, mirrors as applicable) to satisfy 1m high in all directions</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility</li> <li>• Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• Reversing camera &amp; audible reversing alarm</li> <li>• Locking doors with key</li> <li>• Locking caps / covers to fuel and all other tanks</li> <li>• Isolation switch with key</li> <li>• Wheeled nut indicators</li> <li>• Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure</li> </ul>	<ul style="list-style-type: none"> <li>• Dual gully brush and wide main brush</li> <li>• Gully sucker and hand lance</li> <li>• Rear work lights</li> <li>• The equipment <b>must</b> not be more than 10 years old</li> <li>• Manufacturer instruction / user handbook to be with machine</li> </ul> <p><b>Minimum Requirement – Remote control:</b></p> <ul style="list-style-type: none"> <li>• If battery powered, remote control units must be checked to ensure sufficient power is available for the intended operations</li> <li>• If the remote control is operated through an umbilical cord, this must extend to allow the operator to work from a place of safety</li> <li>• Operation of the emergency stop button and any other isolating devices must be checked for operational function</li> <li>• Remote control units should be clean and free from damage including the wearing harness and umbilical cable (where relevant)</li> </ul> <p><b>Plant Operator - Specific</b></p> <ul style="list-style-type: none"> <li>• Be trained in and comply with the Duty of Care for Waste Carriers</li> <li>• Minimum of Category "C" driving licence when unit over 7.5t GVW</li> <li>• Shall hold a current Driver CPC qualification</li> <li>• Operator to be TM trained in 'mobile works'</li> <li>• Demonstrable training and experience in operation of sweeper / gully sucker</li> <li>• Cat B driving licence</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> </ul>
<p><b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b></p>	

## Rotary or Rotary Bored (RBP) Piling Rig



### Core specification

Rotary or Rotary Bored piling rig capable of a boring depth around 77m and up to 3m diameter.

### Environmental requirements

- Must comply with **Stage V** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Equipment – Specific (continued)
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• Protected ROPS required or FOPS cab structure where risk of falling objects</li> <li>• Capable of providing telematic data</li> <li>• Flashing amber beacons</li> <li>• All round visibility (cameras, radar, mirrors as applicable) to satisfy 1m high in all directions</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility.</li> <li>• Handrails must be fitted to the lower structure for safe access to carry out maintenance</li> <li>• Safe access for refueling, maintenance and to any place where accessories are stored</li> <li>• Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• Audible white noise reversing alarm</li> <li>• Aircraft warning lights if working within 6km of airports</li> <li>• Locking doors with key</li> <li>• Deadman lever must be fitted to prevent starting when lever not engaged. No modification to the "Dead mans" handle.</li> <li>• Must be fitted with 'hold to run' levers</li> <li>• Shall have a mechanical auger cleaner fitted</li> <li>• An auger cleaner must be fitted to prevent spoil flighting up the auger string and must be fitted with a secondary restraint to prevent components falling from it</li> <li>• An external 'Emergency Stop' must be fitted</li> <li>• Auger guarding shall be fitted to the mast ensuring that no one comes in contact with the rotating auger</li> <li>• Blow out adaptors shall have two air exhaust valves fitted and a pressure gauge to clearly identify the pressure within the pumping lines</li> <li>• Isolation switch with key</li> <li>• Rig instrumentation shall be fitted to the rig to control/aid with the construction of the piles and meet the specification</li> <li>• Motion alarms for slew and tracking must be fitted and operational along with a flashing amber beacon</li> </ul>	<ul style="list-style-type: none"> <li>• The concrete Loop hose over its entire length shall be doubled bagged</li> <li>• Not to be used beneath or adjacent to overhead power lines or obstructions</li> <li>• Protective mesh/guard must be installed to the window on the jib side of the cab if window is opening type</li> <li>• Rubber concrete pipes fitted at height on the rig shall have whip checks fitted to all joints</li> <li>• Suitable spill kit to be provided</li> <li>• The equipment <b>must</b> not be more than 15 years old</li> <li>• Manufacturer instruction / user handbook to be with machine</li> </ul> <p><b>Crane use:</b></p> <ul style="list-style-type: none"> <li>• A machine specific lifting duty chart must be provided with the machine</li> <li>• A 12 month report of thorough examination should be provided</li> <li>• A 6 month report of thorough examination should be provided for all lifting accessories</li> <li>• Auxiliary winch hook must be fitted with a safety catch</li> <li>• All D/Bow shackles used above 2 metres must be the Bolt Anchor Type (i.e., bolt, nut, and pin)</li> <li>• Over-hoist cut out device must be fitted and operational</li> <li>• Certified lifting points for all duties</li> <li>• Safe Load Indicator (LSI) or Rated Capacity Indicator (RCI)</li> <li>• Safe Working Load (SWL) to be clearly marked</li> <li>• Load bearing hydraulic cylinders fitted with check valves</li> </ul>
	<b>Plant Operator - Specific</b>
	<ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> A47 Piling Rig Bored - below 20 tonne <b>or</b>; A48 Piling Rig Bored – Above 20 tonne</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N221 – Piling Rig</li> <li>• Cat B driving licence</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> <li>• Evidence of familiarisation of the equipment being used</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

## Roto Telehandler



### Core specification

Self-propelled, diesel-powered rotational telehandler with a reach from 21m- 35m and lift capacity from 4000kg - 7,000kg.

### Environmental requirements

- Must comply with **Stage V** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Equipment – Specific (continued)
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• If used on public highway - compliance with C&amp;U regulations (VED registered, lights, indicators, registration plate's front &amp; rear etc.)</li> <li>• Forks to be folded/secured if travelling on public highway</li> <li>• Brake efficiency testing to be carried out and recorded in accordance with the OEM's operator's handbook / instructions</li> <li>• Protected ROPS required or FOPS cab structure where risk of falling objects</li> <li>• Capable of providing telematic data</li> <li>• Live anti-theft tracking system</li> <li>• Isolation switch with key</li> <li>• Flashing amber beacons</li> <li>• All round visibility (cameras, radar, mirrors, CCTV as applicable) to satisfy 1m high in all directions</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility</li> <li>• Seat belts must be fitted and operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• Audible white noise reversing alarm</li> <li>• Locking doors with key</li> <li>• Locking caps / covers to fuel and all other tanks</li> <li>• Longitudinal load Movement control system and Indicator (LLMI).</li> <li>• Red pre-overload beacon</li> <li>• Where access is required at height for security &amp; maintenance purposes, a suitable system must be in place to prevent falling from height</li> <li>• Wheeled nut indicators</li> <li>• Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure</li> <li>• If used under or near overhead cables / obstructions: must be fitted with height restrictors with indication of use</li> <li>• Boom ram lock facility must be provided with the machine</li> </ul>	<ul style="list-style-type: none"> <li>• Protective mesh / fixed glass panel must be fitted to boom side of cab</li> <li>• Suitable spill kit to be provided</li> <li>• The equipment <b>must</b> not be more than 5 years old</li> <li>• Manufacturer instruction / user handbook to be with machine</li> </ul>
	Lifting Equipment - Specific
	<ul style="list-style-type: none"> <li>• A machine specific lifting duty chart must be provided with the machine</li> <li>• A 12 month report of thorough examination should be provided</li> <li>• A 6 month report of thorough examination should be provided for all lifting accessories</li> <li>• Certified lifting points for all duties</li> <li>• Safe Load Indicator (LSI) or Rated Capacity Indicator (RCI)</li> <li>• Safe Working Load (SWL) to be clearly marked</li> <li>• Check Valves must be fitted to boom arm circuits</li> </ul>
	Plant Operator - Specific
	<ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> A77 - Telescopic Handler 360° slew (additionally A17 C&amp;E)</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N010 – Telescopic handler N138 - Telescopic Handler Suspended Loads (If authorised to work with static suspended loads (DI Lifting))</li> <li>• Cat B driving licence</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> <li>• Operator must ensure the boom is positioned at a safe level when travelling in accordance with the manufacturer's recommendations</li> <li>• Familiar and competent to utilise Roto accessories</li> </ul>
Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred	

# Plant Specification - Minimum Mandatory Requirements

## Site Towed Bowser



### Core specification

Trailer mounted water / fuel bowser with a capacity of 1,000 to 9,000 litres for site use only.  
**Not to towed on the public highway**

### Environmental requirements

- None

Plant Equipment – Specific	Plant Operator – Specific
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• Fuel bowsers must be banded 110% (double banded)</li> <li>• Lockable dispensing compartment c/w hand pump dispenser with minimum 6m delivery hose</li> <li>• Automatic shut off nozzle to be fitted</li> <li>• Fuel / water level gauge</li> <li>• 40mm towing eye</li> <li>• Handbrake to be fitted</li> <li>• Off road tyres</li> <li>• Safety chain</li> <li>• Jockey leg designed to be secure in transit</li> <li>• Wheel chocks to be used at all times</li> <li>• Wheeled nut indicators</li> <li>• Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure</li> <li>• Suitable spill kit to be provided</li> <li>• Must comply with LOLER and PUWER</li> <li>• The equipment <b>must</b> not be more than 10 years old</li> <li>• Manufacturer instruction / user handbook to be with machine</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure that towing vehicle and trailer does not exceed rated capacity</li> <li>• Ensure COSHH data is available for liquids (if applicable)</li> <li>• Competent to deal with spills and environmental protection</li> </ul>
<p><b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b></p>	

# Plant Specification - Minimum Mandatory Requirements

## Suction Excavator



### Core specification

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

### Environmental requirements

- Preference should be given to vehicles with **Euro VI engines** for anything roadgoing.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Equipment – Specific (continued)
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (whole vehicle type approval) (see note 1)</li> <li>• Public Highway compliance with C&amp;U regulations (VED registered, lights, indicators, registration plate's front &amp; rear etc.) &amp; operator 'O' licence displayed in the cab windscreen</li> <li>• Direct Vision Standard for London Low Emission Zone, must hold a DVS safety permit</li> <li>• Current MOT plating certificate</li> <li>• Chapter 8 compliant beacons, reflective chevrons and 'Highway / Motorway Maintenance' signs (where applicable)</li> <li>• The lorry should be Fleet Operator Recognition Scheme (FORS) - Minimum Bronze</li> <li>• <b>Compliant with the SHE-T-402 Stop &amp; Think Instruction</b></li> <li>• All round visibility, mirrors including class V &amp; VI / (cameras, radar, CCTV as applicable) to satisfy 1m high in all directions</li> <li>• Safe access for refueling, maintenance and to any place where accessories are stored</li> <li>• Park brake not engaged warning device</li> <li>• Capable of providing telematic data</li> <li>• Live tracking system</li> <li>• Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• Reversing camera and white noise reversing alarm</li> <li>• Daylight running lights and Rear work lights</li> <li>• Emergency stops fitted front and rear</li> <li>• Where access is required at height for security &amp; maintenance purposes, suitable system must be in place to prevent falling from height</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility</li> <li>• Isolation switch with key</li> <li>• Wheel nut indicators</li> <li>• Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure</li> <li>• Locking doors with key &amp; Locking caps / covers to fuel and all other tanks</li> </ul>	<ul style="list-style-type: none"> <li>• All safety decals and warning signs including noise levels should be legible</li> <li>• All tools must be made of non-conductive material</li> <li>• Suction nozzles must be non-conductive material only</li> <li>• All air hoses are to be supplied with 2 whip checks</li> <li>• The equipment <b>must</b> not be more than 10 years old</li> <li>• Manufacturer instruction / operator handbook to be with machine</li> </ul>
	<b>Plant Operator – Specific</b>
	<ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> <ul style="list-style-type: none"> <li>A78 – Vacuum Excavator                             <ul style="list-style-type: none"> <li>A: Trailer - Manual Arm</li> <li>B: Trailer - Semi powered arm</li> <li>C: Non-LGV – Manual arm</li> <li>D: Non-LGV –Semi powered arm</li> <li>E: LGV - Semi powered arm</li> <li>F: LGV – Fully powered arm - Senior</li> </ul> </li> <li><b>Second Operator:</b> (Non - LGV Driver)                             <ul style="list-style-type: none"> <li>G: LGV Semi powered arm - second operator</li> <li>H: LGV Fully powered arm - second operator</li> </ul> </li> </ul> </li> <li>• <b>NPORS (CSCS Logo endorsed):</b> <ul style="list-style-type: none"> <li>N021 –Suction Excavator</li> </ul> </li> <li>• LGV Cat C driving license as a minimum</li> <li>• Must hold a current Driver CPC qualification</li> <li>• Must comply with the Drivers Hours Regulations</li> <li>• Safety critical workers medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> <li>• A second operator must always be in attendance whilst in operation, fully trained to operate the machine in case of an emergency</li> <li>• Hydrostatic drive, an operator <b>must</b> be present in the driving seat in addition to the operator controlling the machine externally</li> <li>• If the remote control, umbilical cord must extend to allow the operator to work from a place of safety</li> <li>• Evidence of training for the type of vacuum excavator being operated</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

## Telehandler



### Core specification

Self-propelled, diesel or electric powered telehandler with a reach up to 20m and lift capacity up to 5,000kg

### Environmental requirements

- Must comply with **Stage V** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Equipment – Specific (continued)
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• If used on public highway - compliance with C&amp;U regulations (VED registered, lights, indicators, registration plate's front &amp; rear etc.)</li> <li>• Forks to be folded/secured if travelling on public highway</li> <li>• Brake efficiency testing to be carried out and recorded in accordance with the OEM's operator's handbook / instructions</li> <li>• Protected ROPS required or FOPS cab structure where risk of falling objects</li> <li>• Capable of providing telematic data</li> <li>• Live anti-theft tracking system</li> <li>• Isolation switch with key</li> <li>• Flashing amber beacons</li> <li>• All round visibility (cameras, radar, mirrors, CCTV as applicable) to satisfy 1m high in all directions</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility</li> <li>• Seat belts must be fitted and operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• Audible white noise reversing alarm</li> <li>• Locking doors with key</li> <li>• Locking caps / covers to fuel and all other tanks</li> <li>• Longitudinal load Movement control system and Indicator (LLMI).</li> <li>• Where access is required at height for security &amp; maintenance purposes, a suitable system must be in place to prevent falling from height</li> <li>• Wheeled nut indicators</li> <li>• Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure</li> <li>• If used under or near overhead cables / obstructions: must be fitted with height restrictors with indication of use</li> <li>• Boom ram lock facility must be provided with the machine</li> </ul>	<ul style="list-style-type: none"> <li>• Protective mesh / fixed glass panel must be fitted to boom side of cab</li> <li>• Suitable spill kit to be provided</li> <li>• The equipment <b>must</b> not be more than 5 years old</li> <li>• Manufacturer instruction / user handbook to be with machine</li> </ul>
	Lifting Equipment - Specific
	<ul style="list-style-type: none"> <li>• A machine specific lifting duty chart must be provided with the machine</li> <li>• A 12 month report of thorough examination should be provided</li> <li>• A 6 month report of thorough examination should be provided for all lifting accessories</li> <li>• Certified lifting points for all duties</li> <li>• Safe Load Indicator (LSI) or Rated Capacity Indicator (RCI)</li> <li>• Safe Working Load (SWL) to be clearly marked</li> <li>• Check Valves must be fitted to boom arm circuits</li> </ul>
	Plant Operator - Specific
	<ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> <ul style="list-style-type: none"> <li>A17 – Telescopic handler</li> <li>A - Industrial Telescopic</li> <li>B - Up to 9m</li> <li>C - All sizes excluding 360° slew</li> <li>E – Suspended Load (non-rough terrain)</li> <li>A77 - Telescopic Handler 360° slew (additionally A17 C&amp;E)</li> </ul> </li> <li>• <b>NPORS (CSCS Logo endorsed):</b> <ul style="list-style-type: none"> <li>N010 – Telescopic handler</li> <li>N138 - Telescopic Handler Suspended Loads (If authorised to work with static suspended loads (DI Lifting))</li> </ul> </li> <li>• Cat B driving licence</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> <li>• Operator must ensure the boom is positioned at a safe level when travelling in accordance with the manufacturer's recommendations</li> </ul>
Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred	

# Plant Specification - Minimum Mandatory Requirements

## Tipper Lorry (Rigid body)



### Core specification

Tipper Lorry over 3.5te and up to 32te GVW, diesel engine, 6 or 8-wheel configuration for deliveries and collection duties (muck away)

### Environmental requirements

- Preference should be given to vehicles with **Euro VI engines** for anything roadgoing.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Equipment – Specific
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (whole vehicle type approval) (see note 1)</li> <li>• Public Highway compliance with C&amp;U regulations (VED registered, lights, indicators, registration plate's front &amp; rear etc.) &amp; operator 'O' licence displayed in the cab windscreen</li> <li>• Current MOT plating certificate</li> <li>• Direct Vision Standard for London Low Emission Zone. Must hold a DVS safety permit (where applicable)</li> <li>• Chapter 8 compliant beacons, reflective chevrons and 'Highway / Motorway Maintenance' signs (if applicable)</li> <li>• All round visibility; Mirrors (including class V &amp; VI) / (cameras, radar, CCTV as applicable) to satisfy 1m high in all directions</li> <li>• The lorry should be Fleet Operator Recognition Scheme (FORS) - Minimum Bronze</li> <li>• Parking brake not engaged warning device</li> <li>• Capable of providing telematic data</li> <li>• Live anti-theft tracking system</li> <li>• <b>Compliant with SHE-T-402 Stop &amp; Think Instruction</b></li> <li>• In cab height warning indicator</li> <li>• Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• Daylight running lights</li> <li>• Reversing camera and audible reversing alarm</li> <li>• Audible / visual tipping alarm</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility</li> <li>• Locking doors with key</li> <li>• Where access is required at height for security &amp; maintenance purposes, a suitable system must be in place to prevent falling from height</li> <li>• Wheeled nut indicators</li> <li>• Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure</li> <li>• Automated operation for tailgate</li> <li>• Automated dust sheeting for load</li> </ul>	<ul style="list-style-type: none"> <li>• Tipper body with integral body prop</li> <li>• Inclinator safety stops for tipper body</li> <li>• Tipper body raised alarm when in motion system in cab</li> <li>• If used under or near overhead cables / obstructions: must be fitted with height restrictors with indication on machine</li> <li>• The equipment <b>must</b> not be more than 10 years old</li> <li>• Manufacturer instruction / user handbook to be with machine</li> </ul>
	Plant Operator - Specific
	<ul style="list-style-type: none"> <li>• Minimum of Cat C driving licence when unit over 7.5t GVW</li> <li>• Shall hold a current driver CPC qualification</li> <li>• Operator to be TM trained in "mobile works"</li> <li>• Driver to be aware and comply with Duty of Care for waste carriers</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246) or Delivery driver induction (SHE-H-702) to be completed, as applicable</li> </ul>
Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred	

# Plant Specification - Minimum Mandatory Requirements

## Tracked Dozer



### Core specification

Tracked dozer, Electric, Hybrid and diesel powered, from over 8 tonne to 50 tonne

### Environmental requirements

- Must comply with **Stage V** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Operator – Specific
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• Protected ROPS required or FOPS cab structure where risk of falling objects</li> <li>• Capable of providing telematic data</li> <li>• Live anti-theft tracking system</li> <li>• Flashing amber beacons</li> <li>• All round visibility (cameras, radar, mirrors, CCTV as applicable) to satisfy 1m high in all directions</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility</li> <li>• Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• Audible white noise reversing alarm</li> <li>• Locking doors with key</li> <li>• Locking caps / covers to fuel and all other tanks</li> <li>• Where access is required at height for security &amp; maintenance purposes, a suitable system must be in place to prevent falling from height</li> <li>• If used under or near overhead cables / obstructions: must be fitted with height &amp; slew restrictors with external indication of use</li> <li>• Cab and window security guards (optional)</li> </ul> <p><b>If winch fitted:</b></p> <ul style="list-style-type: none"> <li>• Associated lifting accessories to have a 6-month report of thorough examination should be provided</li> <li>• The equipment <b>must</b> not be more than 10 years old</li> <li>• Manufacturer instruction / user handbook to be with machine</li> </ul>	<ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> A34 –Crawler Tractor / Dozer</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N215 - Dozer</li> <li>• Cat B driving licence</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

# Plant Specification - Minimum Mandatory Requirements

## Tractor Plant Trailer



### Core specification

Trailer for agricultural tractor with a maximum gross capacity of 33t, and bed length up to 6m.

### Environmental requirements

- None

Plant Equipment – Specific	Plant Operator - Specific
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 46 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• Should not be used on the public highway.</li> <li>• <b>If used on public highway</b>, may need to be Operator O Licence compliant. <b>Refer to Costain Fleet Management</b></li> <li>• Public Highway compliance with C&amp;U regulations (VED registered, lights, indicators, registration plate fitted to rear.</li> <li>• Air braking systems (with over 50% braking performance)</li> <li>• Heavy duty sprung drawbar</li> <li>• Fixed towing eye</li> <li>• Side crash guards</li> <li>• D Shackles in trailer bed</li> <li>• Spring assisted ramps (where fitted) c/w ratchet strap supports</li> <li>• Ratchet type parking brake</li> <li>• Heavy duty jockey leg/stay</li> <li>• Side fitted tool box</li> <li>• Air Coupling parking brake, fail safe valve (Type 30 Spring applied) fitted to the front axle</li> <li>• Hydraulically operated ramps (optional)</li> <li>• Full width ramp (optional)</li> <li>• Chequer plate bed and ramps (optional)</li> <li>• Hydraulic flip toe ramps (optional)</li> <li>• Swivel towing eye (optional)</li> <li>• Commercial Jack Legs, Hydraulic / Manual Jack Leg (optional)</li> <li>• Mud guards and mud flaps to be fitted</li> <li>• Suitable number plate holder to facilitate quick change over and security of attachment</li> <li>• Wheel nut indicators</li> <li>• Labelled each side with tyre inflation pressure and wheel nut torque figure</li> <li>• Wheel chocks</li> <li>• Must comply with LOLER and PUWER</li> <li>• The equipment <b>must</b> not be more than 10 years old</li> <li>• Manufacturer instruction / user handbook to be with machine</li> </ul>	<ul style="list-style-type: none"> <li>• LGV class C1E for combinations with a maximum authorised mass (MAM) up to 12 tonnes (8.25 tonnes if the licence was obtained before 1997) and</li> <li>• LGV class CE for combinations with MAM over 7.5 tonnes (8.25 tonnes for pre-1997 licences).</li> <li>• Total train weight must not exceed the rated payload of the machine</li> <li>• Shall hold a current Driver CPC qualification</li> <li>• Must have suitable familiarisation training including hitching procedure prior to use of equipment.</li> <li>• Load positioning - ensure load is correctly positioned to prevent nose overload</li> <li>• Load security – load must be securely tied down by approved methods</li> <li>• Safety Critical Workers Medical (when towing)</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> <li>• Ensure that towing vehicle and trailer does not exceed rated capacity</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

# Plant Specification - Minimum Mandatory Requirements

## Vibro Piling Rig



### Core specification

Steel casing vibro piling rig up to 600mm diameter and up to 40m in length

### Environmental requirements

- Must comply with **Stage V** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Equipment – Specific (continued)
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• Protected ROPS required or FOPS cab structure where risk of falling objects</li> <li>• Capable of providing telematic data</li> <li>• Flashing amber beacons</li> <li>• All round visibility (cameras, radar, mirrors as applicable) to satisfy 1m high in all directions</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility.</li> <li>• Handrails must be fitted to the lower structure for safe access to carry out maintenance</li> <li>• Safe access for refueling, maintenance and to any place where accessories are stored</li> <li>• Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• Audible white noise reversing alarm</li> <li>• Aircraft warning lights if working within 6km of airports</li> <li>• Locking doors with key</li> <li>• Deadman lever must be fitted to prevent starting when lever not engaged. No modification to the "Dead mans" handle.</li> <li>• Must be fitted with 'hold to run' levers</li> <li>• Isolation switch with key</li> <li>• A sledge over hoist knock out system must be fitted</li> <li>• An external 'Emergency Stop' must be fitted</li> <li>• Motion alarms for slew and tracking must be fitted and operational along with a flashing amber beacon</li> <li>• Not to be used beneath or adjacent to overhead power lines or obstructions</li> <li>• Protective mesh/guard must be installed to the window on the jib side of the cab if window is opening type</li> <li>• Suitable spill kit to be provided</li> <li>• The equipment <b>must</b> not be more than 15 years old</li> <li>• Manufacturer instruction / user handbook to be with machine</li> </ul>	<p><b>Crane use:</b></p> <ul style="list-style-type: none"> <li>• A machine specific lifting duty chart must be provided with the machine</li> <li>• A 12 month report of thorough examination should be provided</li> <li>• A 6 month report of thorough examination should be provided for all lifting accessories</li> <li>• All D/Bow shackles used above 2 metres must be the Bolt Anchor Type (i.e., bolt, nut, and pin)</li> <li>• The auxiliary line, must be fitted with an over-hoist limit switch</li> <li>• Over-hoist cut out device must be fitted and operational</li> <li>• Safe Load Indicator (LSI) or Rated Capacity Indicator (RCI)</li> <li>• Safe Working Load (SWL) to be clearly marked</li> <li>• Load bearing hydraulic cylinders fitted with check valves</li> </ul> <p><b>Plant Operator - Specific</b></p> <ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> A45 Piling Rig Driven - below 20 tonne <b>or</b>; A46 Piling Rig Driven – Above 20 tonne</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N221 – Piling Rig</li> <li>• Cat B driving licence</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> <li>• Evidence of familiarisation of the equipment being used</li> </ul>
<p><b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b></p>	

# Plant Specification - Minimum Mandatory Requirements

## Volumetric Mixer Truck



### Core specification

Vehicle mounted concrete / cement mixer up to 12m<sup>3</sup> capacity (32t GVW)

### Environmental requirements

- Preference should be given to vehicles with **Euro VI engines** for anything roadgoing.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Equipment – Specific (continued)
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (whole vehicle type approval) (see note 1)</li> <li>• Public Highway compliance with C&amp;U regulations (VED registered, lights, indicators, registration plate's front &amp; rear etc.) &amp; operator 'O' licence displayed in the cab windscreen</li> <li>• Current MOT plating certificate</li> <li>• Direct Vision Standard for London Low Emission Zone. Must hold a DVS safety permit (as applicable)</li> <li>• Chapter 8 compliant beacons, reflective chevrons and "Highway / Motorway Maintenance signs" (if applicable)</li> <li>• <b>Compliant with SHE-T-402 Stop &amp; Think Instruction</b></li> <li>• Fleet Operator Recognition Scheme (FORS) - Minimum Bronze</li> <li>• All round visibility; Mirrors (including class V &amp; VI) / (cameras, radar, CCTV as applicable) to satisfy 1m high in all directions</li> <li>• Capable of providing telematic data</li> <li>• Seat belts must be fitted and operational</li> <li>• White noise reversing alarm</li> <li>• Isolation switch with key</li> <li>• Emergency stop button</li> <li>• Parking brake not engaged warning device</li> <li>• Locking doors with key &amp; locking caps / covers to fuel and all other tanks</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility</li> <li>• Where access is required at height for security &amp; maintenance purposes, suitable system must be in place to prevent falling from height</li> <li>• Wheel nut indicators</li> <li>• Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure</li> <li>• Rear work lights</li> <li>• First aid kit and eyewash in cab</li> <li>• Suitable spill kit to be provided</li> <li>• Fire extinguisher in cab</li> <li>• The equipment <b>must</b> not be more than 10 years old</li> </ul>	<ul style="list-style-type: none"> <li>• Manufacturer instruction / user handbook to be with machine</li> <li>• Chain inspection holes must be fitted with guards / covers</li> <li>• Isolator for auger, belt, chains, and drives must incorporate a lock-out device</li> <li>• The auger guard must be fitted with interlock device</li> <li>• Fix safety chains prior to moving off with auger in the raised (and locked) position</li> </ul> <p><b>Remote control:</b></p> <ul style="list-style-type: none"> <li>• If battery powered, remote control units must be checked to ensure sufficient power is available for the intended operations</li> <li>• If the remote control is operated through an umbilical cord, this must extend to allow the operator to work from a place of safety</li> <li>• Operation of the emergency stop button and any other isolating devices must be checked for operational function</li> <li>• Remote control units should be clean and free from damage including the wearing harness and umbilical cable (where relevant)</li> <li>•</li> </ul> <p style="background-color: #00AEEF; color: white; padding: 2px;"><b>Plant Operator - Specific</b></p> <ul style="list-style-type: none"> <li>• Minimum of Category "C" driving licence when unit over 7.5t GVW</li> <li>• Shall hold a current Driver CPC qualification</li> <li>• Safety critical medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246) or Delivery driver induction (SHE-H-702) to be completed, as required or applicable</li> <li>• Demonstrable training and experience in operation of mixer truck</li> <li>• Trained in use of specific vehicle being used</li> <li>• Operator to be Traffic Management trained in 'mobile works' (Highways contract specific)</li> <li>• Hand and skin dermatitis protection / monitoring</li> <li>• Trained in use of spill kits</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	

# Plant Specification - Minimum Mandatory Requirements

## 360° Wheeled Loading Shovel



### Core specification

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

### Environmental requirements

- Must comply with **Stage V** of EU Directive 97/68/EC and in London the 'Low Emission Zone' for NRMM.
- Electric, hydrogen or alternative fuel, hybrid and fuel efficient plant must be first preference unless unavailable or inappropriate for the activity.
- Telemetry data must be collated for all plant where available. Minimum data required is working and idling run time (in hours)

Plant Equipment – Specific	Plant Equipment – Specific (continued0
<ul style="list-style-type: none"> <li>• Must be compliant with EC Machinery Directive 2006 / 42 / EC and supplied with a declaration of conformity with CE / UKCA mark or report of thorough examination (see note 1)</li> <li>• If used on public highway - compliance with C&amp;U regulations (VED registered, lights, indicators, registration plate's front &amp; rear etc.)</li> <li>• ROPS for non-cabbed machines and ROPS &amp; FOPS c/w safety glass for cabbed machines.</li> <li>• Capable of providing telematic data</li> <li>• Live anti-theft tracking system</li> <li>• Flashing amber beacons</li> <li>• All round visibility (cameras, radar, mirrors, CCTV as applicable) to satisfy 1m high in all directions</li> <li>• Cab steps and grab handles to ensure 3 points of contact is achievable and preferably high visibility</li> <li>• Seat belts must be fitted, operational with visible indication of seat belt engagement or machine isolation when not</li> <li>• Audible white noise reversing alarm</li> <li>• Reversing camera</li> <li>• Locking doors with keys &amp; locking caps / covers to fuel and all other tanks</li> <li>• Where access is required at height for security &amp; maintenance purposes, a suitable system must be in place to prevent falling from height</li> <li>• Isolation switch and key</li> <li>• Wheeled nut indicators</li> <li>• Labelled each side (or sticker in cab) with tyre inflation pressure and wheel nut torque figure</li> <li>• If used under or near overhead cables / obstructions: must be fitted with height restrictors with external indication of use</li> <li>• Articulation lock must be fitted and operational</li> <li>• Machine lifting and tie down points clearly labelled</li> <li>• Lifting duty chart displayed on boom or in cab</li> <li>• Cab and window security guards (optional)</li> <li>• The equipment <b>must</b> not be more than 5 years old</li> <li>• Manufacturer instruction / user handbook to be with machine</li> </ul>	<ul style="list-style-type: none"> <li>• <b>CPCS card category:</b> A21 Wheeled Loading Shovel</li> <li>• <b>NPORS (CSCS Logo endorsed):</b> N209 – Loading Shovel</li> <li>• Cat B driving licence</li> <li>• Minimum age of 18 years old</li> <li>• Safety Critical Workers Medical</li> <li>• Plant operator induction (SHE-T-247)</li> <li>• Equipment competency assessment (SHE-T-246)</li> </ul>
	<b>If used for Lifting – Equipment</b>
	<ul style="list-style-type: none"> <li>• A machine specific lifting duty chart must be provided with the machine and displayed on boom or in cab</li> <li>• A 12 month report of thorough examination should be provided</li> <li>• A 6 month report of thorough examination should be provided for all lifting accessories</li> <li>• Certified lifting points for all duties</li> <li>• Safe Load Indicator (LSI) or Rated Capacity Indicator (RCI)</li> <li>• Safe Working Load (SWL) to be clearly marked</li> <li>• Check Valves must be fitted to boom and dipper arm circuits</li> </ul>
<b>Additional requirements identified in risk assessment and by client need to be specified at the time of order for which extra costs may be incurred</b>	