

Plant Identification : HAULOTTE HTL 4017					
Potential Hazard	Risk		Control Methods currently in Place	Additional Control Method Required	Confirmation and Acceptance
	Yes	No			
<b>Entanglement –</b> Can anything become entangled in moving parts?	Y		Guard installed on engine fan Warning decals Precaution in operator manual	Address during company induction	
<b>Crushing/Striking –</b> Can anyone be crushed or struck by moving objects due to:					
Material falling off or onto the plant?	Y		ROPS and FOPS fitted to cabin. Precautions provided in operator manual	None	
Uncontrolled or unexpected movement of the plant or its load?	Y		Neutral start switch Reversing Alarm Reversing Camera Controls and joystick comply to AS1418.19 Non-slip surface on pedals Design complies with AS1418.19 & is consistent with market	None	
Lack of capacity for the plant to be slowed, stopped or immobilised?	<input type="checkbox"/>	N	Braking system designed and tested to comply with AS1418.19 Telehandlers Brakes auto-engage Service & Park brake operational	Function test brakes to confirm operability before use	

	The plant tipping or rolling over?	Y		Stability tested in accordance with AS1418.19 Warnings provided in manual  LMI and EQSS load management and load/stability management systems installed to prevent unstable configurations. Spirit level gauge provided Tyre specifications and inflation pressures listed on decal in cabin FOPS and ROPS fitted approved to ISO standard Emergency exit provided on alternative cabin face (rear wall)	Operate machine in accordance with load, speed, slope and wind limits Follow precautions and procedures when travelling with load  Check condition of machine including tyres and inflation pressures are in accordance with specifications prior to use	
	Parts of the plant collapsing?	Y		Safety prop provided for maintenance operations on or below boom Precaution in manual regarding use of prop  Load holding valve fitted to lift cylinder conforms to AS1418.19	None	

	Coming into contact with moving parts of the plant during testing, inspection, operation, maintenance, cleaning or repair?	Y		While conducting maintenance under raised boom– Safety prop provided and precautions in operator manual	None	
	Being thrown off or under the plant?	Y		Seatbelt provided Precaution in operator manual to wear seatbelt Secure door fitted Seat switch immobilises movement Operator cabin fully enclosed		
	Being trapped between the plant & materials or fixed structures?	<input type="checkbox"/>	N		Address during company induction	
	Other factors not mentioned?	<input type="checkbox"/>	N			
	<b>Cutting, Stabbing or Puncturing –</b> Can anyone be cut, stabbed or punctured due to:					
	Coming in contact with sharp or flying objects?	<input type="checkbox"/>	N	No visible sharp objects		
	Uncontrolled or unexpected movement of the plant?		N			
	Parts of the plant or work pieces disintegrating?		N	Inspection schedule provided in manual to identify disintegrating components		
	Work pieces being ejected?	<input type="checkbox"/>	N	Attachment couplings comply with AS1418.19 Telehandlers		

	Coming in contact with moving parts of the plant during testing, inspection, operation maintenance, cleaning or repair?		N	Guarding fitted Warning Decals fitted		
	Other factors not mentioned?		N			
	<b>Shearing –</b> Can anyone’s body parts be sheared between two parts of the plant, or between a part of the plant and a work piece structure?	<input type="checkbox"/>	N		JSA, Training and Supervision to be provided by site mgt	
	<b>Slipping or Tripping –</b> Can anyone using or near the plant, slip or trip due to:					
	Uneven or slippery work surfaces?	Y		Non slip surface provided on entry steps and in cab		

	Poor housekeeping, e.g. spillage not cleaned up?	Y		Operator cabin and entry steps provided in clean condition  No lubricant leakage	Supervision by site mgt to ensure machine remains in clean, safe condition	
	Obstacles being placed in the vicinity of the plant?	Y		Storage location for operator manuals, load charts	Supervision to be provided by site mgt to ensure cabin and work area remains free from obstacles	
	Other factors not mentioned?	<input type="checkbox"/>	N			
	<b>Falling –</b> Can anyone fall from a height due to:					
	Lack of proper working platform?	<input type="checkbox"/>	N			

	Lack of proper stairs or ladders?		N	Entry steps fitted. Complies to AS1418.19		
	Lack of guard rails or other suitable edge protection?	<input type="checkbox"/>	N			
	Unprotected holes, penetrations or gaps?	<input type="checkbox"/>	N	Operator Cabin in provided as a complete, enclosed space		
	Poor floor or walking surfaces, such as the lack of a slipresistant surface?		N			
	Steep walking surfaces?	<input type="checkbox"/>	N			
	Collapse of the supporting structure?	<input type="checkbox"/>	N			
	Other factors not mentioned?		N			
	<b>Suffocation –</b> Can anyone be suffocated due to lack of oxygen or atmospheric contamination?	Y		Air conditioning fitted Window fitted		

	<b>Electrical –</b> Can anyone be injured by electrical shock or burnt due to:					
	• The plant contacting live electric conductors?	Y		Electrical Decal specifying minimum clearance is fitted by control panel	JSA, Training and Supervision to be provided by site mgt to ensure safe working clearance from electrical fields	
	• The plant working in close proximity to electrical conductors?	Y		Electrical Decal specifying minimum clearance is fitted Precaution in operator manual	JSA, Training and Supervision to be provided by site mgt to ensure safe working clearance from electrical fields	

	• Overload of electrical circuits?	<input type="checkbox"/>	N	Regular service intervals indicated in manual inc. inspection and testing of electrical circuits		
	• Damaged or poorly maintained electrical leads & cables?		N	No signs of damage		
	• Damaged electrical switches?		N	No signs of damage		
	• Water near electrical equipment?		N			
	• Lack of isolation procedures?	<input type="checkbox"/>	N			
	• Other factors not mentioned?	<input type="checkbox"/>	N			
	<b>High/Low Temperature or Fire -</b>					
	Can anyone come into contact with moving parts or other objects at high temperatures?		N	Exhaust mounted at rear and at height – not accessible Engine exhaust guards fitted High temp warning decal fitted		
	Can anyone be injured by fire?	Y		Cabin is designed with firewalls Emergency rear exit provided		
	Can anyone suffer ill-health due to exposure to high or low temperatures?		N			

	<p><b>High Pressure Fluid –</b> Can anyone come into contact with fluids under high pressure, due to plant failure or misuse of the plant?</p>	Y		<p>Pipe clamps fitted Relief valve fitted Warning decal fitted Precautions for repair on high pressure fluids is provided in manual</p>		
	<p><b>Explosion –</b> Can anyone be injured by explosion of gases, vapours, liquids, dusts, etc., triggered by the operation of the plant or by material handled by the plant?</p>	Y		Warning decal on battery	JSA, Training and Supervision to be provided by site mgt	
	<p><b>Other Hazards –</b> Can anyone be injured or suffer ill-health from exposure to</p>					
	<ul style="list-style-type: none"> <li>• Chemicals?</li> </ul>		N			
	<ul style="list-style-type: none"> <li>• Toxic gases or vapours?</li> </ul>	<input type="checkbox"/>	N			
	<ul style="list-style-type: none"> <li>• Fumes?</li> </ul>	Y		Warning provided in manual regarding charging of battery		
	<ul style="list-style-type: none"> <li>• Dust?</li> <li>•</li> </ul>		N			
	<ul style="list-style-type: none"> <li>• Noise?</li> <li>•</li> <li>•</li> </ul>		N	Unit meets EU noise standards		
	<ul style="list-style-type: none"> <li>• Vibration?</li> <li>•</li> </ul>	<input type="checkbox"/>	N	Unit meets EU vibration standards		

	• Radiation?		N			
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	• Other factors not mentioned?		N			
	<b>Ergonomics –</b> Can anyone be injured due to:					
	Poorly designed seating?	Y		Seat in safe usable conditions with adjustment provided		
	Repetitive body movement?	<input type="checkbox"/>	N	Controls in easy-reach on dash Pedals within operator’s reach		
	Constrained body posture or the need for excessive effort?	<input type="checkbox"/>	N	Electronic controls		
	Design deficiency causing mental or psychological stress?	<input type="checkbox"/>	N			
	Inadequate or poorly placed lighting?		N			



	Lack of consideration given to human error or human behaviour?		N			
	Mismatch of the plant with human traits and natural limitations?	<input type="checkbox"/>	N			
	<b>Other Plant Specific Hazards not covered above:</b>					

	<b>Attachments including Forks, Sied-shift Forks, Jib, Jib Crane, Fly Jib, Hook, Bucket, Fork Rotator, Winch</b>					
	Attachments incorrectly fitted resulting in loss of load	Y		Hitch attachment complies with AS1418.19  Procedure provided in manual	Operator training to ensure correct procedure is applied  Visual inspection that attachment is correctly attached	
	Suspended loads insufficiently controlled resulting in overturning of machine, loss of load or damage to machine/surrounding objects	Y		Procedure to use attachments is provided in operator manual  Instructions for use with suspended loads included in operator manual	Employ a safe work method when transporting suspended loads	
	Excessive loads for current attachment	Y		Load charts supplied for each attachment  Control system fitted with Rated capacity limiter and Longitudinal stability indicator as per AS1418.19  Automatic stability warnings and cutouts fitted	Operator training to understand and apply control systems and loadcharts  Select correct loadchart for each attachment  Operator machine within the operational limits	

	Incorrect use of attachment			Procedure to use attachments is provided in operator manual Supplementary manuals provided where required		
	Use of damaged or worn attachments			Inspection requirements provided in operator manual	Inspect attachments on a periodic basis Contact Haulotte services if attachment is excessively worn or damaged	

***Product Safety***

The information provided in this document is only a small example of the activities which have been undertaken by Haulotte GROUP to ensure the safety of the plants.

These include:

- Performing computer simulation/modeling of product and internal design calculations.
- Independent design review by an independent engineer to local design requirements is completed in Australia.
- Cycle testing of components to ensure fatigue life is adequate for a 10 year life is completed.
- Extensive field testing of prototype units to ensure faults and hazards are identified.

***Occupational Health & Safety Legislation***

The below legislation has been used to produce this document.

- ACT, NSW, QLD: Work Health and Safety Act 2011
- NT: Work Health and Safety (National Uniform Legislation) Act 2011
- SA, TAS: Work Health and Safety Act 2012
- VIC: Occupational Health and Safety Act 2004
- WA: Occupational Safety and Health Act 1984