

Assessment reference:	DINGLI-0165	Machine lifetime	15 years
Type of machine:	Rough terrain scissor lift	Intended use	This machine is intended to be used only to lift personnel, along with their tools and materials to an aerial work site.
Machine location:	Huzhou, Zhejiang	Working Conditions	temperature:-20℃~40℃
Machine description:	scissor lift intended to move persons to working positions where they are carrying out work from the work platform with the intention that persons are getting on and off the work platform only at access positions at ground level		Max. allowable wind speed:12.5m/s
Machine manufacturer:	Dingli		Altitude:≤1500m
Machine model:	SL3025-HRT(JCPT3225HRT)		Humidity: < 50% (40℃); <90% (-20℃)
Machine serial number:	\	Maintenance manual:	Yes, as supplied
Modifications from 'as-supplied':	None	Maintenance training record:	\
Energy sources:	Diesel engine	Access by untrained visitors:	Not allowed
Energy source ratings:	80VDC		
Regulations, normative references and technical sheets	The following standards have been initially considered: EN 280, EN ISO 12100, EN 60204-1, EN ISO 13849-1, EN ISO 13849-2 and Machinery Directive 2006/42/EC.		
Assessment carried out by:	QiuChunjie		
Assessment date:	2025/03/15		
Assessment checked by:	Li Zhixin		
Assessment approved by:	Mo Zhenhao		

Type or group of hazard	Origin	Potential consequences	Comments
Mechanical hazards	-Acceleration/deceleration -Kinetic energy -Angular parts -Approach of a moving element to a fixed part -Cutting parts -Elastic elements -Falling objects -Gravity -Stored energy -Height from the ground -High pressure -Machinery mobility -Moving elements -Rotating elements -Surface finish (rough or slippery) -Sharp edges -Instability -Vacuum -Other	Being run over	persons around may be run over if the brake distance is too long.
		Being thrown	operator may be thrown out from the work platform if the machine run into kerb or depression.
		Crushing	hands of operators could be crushed during the platform is moving in close proximity to other objects.
		Cutting or severing	N/A
		Drawing-in or trapping	operator may get stuck when the platform is raised and the MEWP loses its power
		Entanglement	N/A
		Friction or abrasion	N/A
		Impact	persons around may be impacted if the brake distance is too long.

Initial assessment							Action required (clause of EN 280-1:2022)
S	F	O	A	RI	Risk level		
2	1	2	2	3	medium		braking system comply with CL 4.3.1.6 and 4.3.1.10
2	2	3	2	6	high		kerb and depression test were carried out according to CL 5.1.4.2.2: machine stopped once driving to kerb or depression.
2	1	1	2	2	low		only well trained persons are allowed to operate the machine. Operators shall observe surrounding environments before starting any movement.
				0	negligible		No need
2	2	1	2	4	medium		Emergency lowering device is applied on the chassis. This operation depends only on the gravity.
				0	negligible		No need
				0	negligible		No need
2	2	2	2	5	high		braking system comply with CL 4.3.1.6 and 4.3.1.10

Re-assessment after taking action							Action required
S	F	O	A	RI	Risk level		
2	1	1	1	2	low		No need
2	1	1	1	2	low		operators must wear safety restraint belt and hitch to the anchor points obeying operation manuals. Notice signs attached to platforms.
2	1	1	1	2	low		relevant requirements shall be specified in the manuals.
				0	negligible		No need
2	1	1	1	2	low		rescuers on the ground must be familiar with the emergency lowering operation. An indicator is attached beside the emergency lowering device
				0	negligible		No need
				0	negligible		No need
2	1	1	1	2	low		No need

			people stay below the platform may get hit by the work platform while lowering or falling object from the work platform
		Injection	N/A
		Shearing	shearing of hands and arms may occur during lowering extending structure
		Slipping, tripping or falling	falling from the work platform
		Stabbing or puncturing	N/A
		Suffocation	N/A
Electrical hazards	Arc Electromagnetic phenomena Electrostatic phenomena Live parts Insufficient distance from live parts under high voltage Overload Parts becoming live under fault conditions Short-circuit Thermal radiation Other	Burn	burned by touching on the hot surfaces
		Chemical effects	N/A
		Effects on medical implants	N/A
		Electrocution	N/A
		Falling or being thrown	see above
		Fire	Diesel fuel may be ignited by the electric fault or spark.
		Projection of molten particles	N/A
		Shock	All electrical components contained within earthed metal machine casing
Thermal hazards	Explosion Flame Objects or materials with a high or low temperature Radiation from heat sources Other	Burn	People nearby the exhaust may get burned by the heat
		Dehydration	N/A
		Discomfort	N/A
		Frostbite	N/A
		Injuries from radiated heat	N/A
		Scald	burned by touching on the hot surfaces
Noise hazards	Cavitation phenomena Exhaust system High-speed gas leak Manufacturing process (eg stamping, pressing, grinding) Moving parts Scraping surfaces Unbalanced rotating parts Whistling pneumatics Worn parts Other	Discomfort	Moving parts may cause noise Engine noise
		Loss of awareness	N/A
		Loss of balance	N/A
		Permanent hearing loss	N/A
		Stress	Warning sounds may cause stress on the people nearby Moving parts may cause noise Engine noise
		Tinnitus	N/A
		Tiredness	N/A
		Other (eg mechanical or electrical) as a consequence of an interference with speech communication or with acoustic signals.	N/A
Vibration hazards	Cavitation phenomena Misalignment of moving parts Mobile equipment Scraping surfaces Unbalanced rotating parts Vibrating equipment Worn parts Other	Discomfort	People on the work platform may get discomfort when operating the MEWP
		Low-back disease	N/A
		Neurological disorder	N/A
		Osteo-articular disorder	N/A
		Trauma of the spine	N/A
		Vascular disorder	N/A

2	1	2	2	3	medium	Audible warnings activated during lowering. Toe-guard is provided around the work platform with height >150mm	2	1	1	2	2	low	No need
				0	negligible	No need					0	negligible	No need
2	2	2	2	5	high	Comply with CL 4.4.3. Equipped with safety device to stop the lowering at "first descent limit"	2	1	1	1	2	low	Warning information specified in the instruction manuals.
2	2	3	2	6	high	The work platform has been surrounded with handrail ≥1.1m, complying with EN 280. Fall restraint anchorage is installed on the work platform to protect people from falling.	2	1	1	1	2	low	Operator must use proper PPE before ascending on the work platform
				0	negligible	No need					0	negligible	No need
				0	negligible	No need					0	negligible	No need
1	2	3	1	2	low	All hot surfaces have been covered	1	1	1	1	1	low	No need
				0	negligible	No need					0	negligible	No need
				0	negligible	No need					0	negligible	No need
				0	negligible	No need					0	negligible	No need
				0	negligible	No need					0	negligible	No need
2	2	1	1	3	medium	Diesel fuel is contained in the specific fuel tank. And electric wiring is conducted avoid the fuel tank.	2	1	1	1	2	low	Routine maintenance is required.
				0	negligible	No need					0	negligible	No need
1	2	1	2	1	low	No need	1	1	1	2	1	low	No need
1	2	2	1	1	low	The exhaust has been setup to avoid direct contact with people	1	1	1	1	1	low	Special warning plate is attached on the manchine
				0	negligible	No need					0	negligible	No need
				0	negligible	No need					0	negligible	No need
				0	negligible	No need					0	negligible	No need
				0	negligible	No need					0	negligible	No need
1	2	3	1	2	low	All hot surfaces have been covered	1	1	1	1	1	low	No need
1	2	3	2	2	low	The noise emission level from the engine is measured below 104dB. Necessary noise reduction measures have been applied on the machine	1	1	3	2	2	low	Suitable PPE is required
				0	negligible	No need					0	negligible	No need
				0	negligible	No need					0	negligible	No need
				0	negligible	No need					0	negligible	No need
1	2	3	2	2	low	The noise emission level from the engine is measured below 104dB. Necessary noise reduction measures have been applied on the machine	1	1	3	2	2	low	Suitable PPE is required
				0	negligible	No need					0	negligible	No need
				0	negligible	No need					0	negligible	No need
				0	negligible	No need					0	negligible	No need
1	2	3	2	2	low	good design to reduce the vibration rate	1	2	1	2	1	low	No need
				0	negligible	No need					0	negligible	No need
				0	negligible	No need					0	negligible	No need
				0	negligible	No need					0	negligible	No need
				0	negligible	No need					0	negligible	No need
				0	negligible	No need					0	negligible	No need

Radiation hazards	Ionising radiation source Low-frequency electromagnetic radiation Optical radiation (infrared, visible and ultraviolet), including laser Radio frequency electromagnetic radiation Other	Burn	N/A
		Damage to eyes and skin	N/A
		Effects on reproductive capability	N/A
		Genetic mutation	N/A
		Headache, insomnia, etc	N/A
Material/substance hazards	Aerosol Biological and microbiological (viral or bacterial) agent Combustible Dust Explosive Fibre Flammable Fluid Fume Gas Mist Oxidiser Other	Breathing difficulties, suffocation	N/A
		Cancer	N/A
		Corrosion	Hydraulic fluid and diesel fuel may cause corrosion
		Effects on reproductive capability	N/A
		Explosion	Gases produced by battery is explosive.
		Fire	Hydraulic fluid and diesel fuel may cause fire
		Infection	N/A
		Mutation	N/A
		Poisoning	The material of the battery is toxic.
		Sensitisation	N/A
		Discomfort	ladders and the open door of platform
		Fatigue	N/A
		Musculoskeletal disorder	N/A
		Stress	N/A
Ergonomic hazards	Access Design or location of indicators and visual display units Design, location or identification of control devices Effort Flicker, dazzling, shadow,	Other (eg mechanical, electrical) as a consequence of human error	N/A
		Burn	N/A
		Slight disease	N/A
		Slipping or falling	Wind and snow may cause instability of the MEWP
		Suffocation	N/A
		Any other as a consequence of the effect caused by the sources of the hazards on the machine or parts of the machine	Lightning strike may cause severe damage to the MEWP and the operators
Hazards associated with the environment in which the machine is used	Dust and fog Electromagnetic disturbance Lightning Moisture Pollution Snow Temperature Water Wind Lack of oxygen Other		
Combined hazards	eg repetitive activity + effort + high environmental temperature	eg dehydration, loss of awareness, heat stroke	N/A

					0	negligible	No need						0	negligible	No need
					0	negligible	No need						0	negligible	No need
					0	negligible	No need						0	negligible	No need
					0	negligible	No need						0	negligible	No need
					0	negligible	No need						0	negligible	No need
					0	negligible	No need						0	negligible	No need
					0	negligible	No need						0	negligible	No need
1	2	2	2		1	low	The diesel fuel tank and hydraulic fluid tank are designed to be resistance to corrosion		1	1	1	2	1	low	No need
					0	negligible	No need						0	negligible	No need
2	2	1	2		4	medium	Enough ventilation for the battery box		2	1	1	2	2	low	No need
2	2	2	2		5	high	Non-flammable hydraulic fluid should be used. The hydraulic fluid tank is designed to be heat resistance. Diesel fuel tank is designed to be heat resistance.		2	1	1	1	2	low	The type of the hydraulic fluid is defined in the user manual
					0	negligible	No need						0	negligible	No need
					0	negligible	No need						0	negligible	No need
2	1	1	1		2	low	No need						0	negligible	No need
					0	negligible	No need						0	negligible	No need
1	2	3	2		2	low	Access complied with CL 4.6.6, 4.6.7.		1	1	1	1	1	low	No need
					0	negligible	No need						0	negligible	No need
					0	negligible	No need						0	negligible	No need
					0	negligible	No need						0	negligible	No need
					0	negligible	No need						0	negligible	No need
					0	negligible	No need						0	negligible	No need
					0	negligible	No need						0	negligible	No need
2	2	3	2		6	high	The MEWP is controlled with overload protection to avoid overload instability.		2	1	1	2	2	low	Operator must strictly follow the instruction and warning plates on the MEWP to operate in the proper environment
					0	negligible	No need						0	negligible	No need
2	2	1	2		4	medium	The MEWP is either designed can not allowed to use in the lightning condition		2	1	1	2	2	low	Operator must strictly follow the instruction and warning plates on the MEWP to operate in the proper environment
					0	negligible	No need						0	negligible	No need

Signature:



Stamp:

