Risk Assessment	Manufacturer: Lingong Group Jinan Heavy Machinery Co.Ltd machine: Mobile Elevated Work Platform	author: Lingong date: 2020.2.26	
according to AS 4024.1301	serial number: AS1413E		LGMG

1	Determination of limits, intended use	See below		Reference to additional documents		
1.1	use allowed	The mobile elevated work platform	allows users to work at a certain height	Manual		
1.2	restrictions, limits of use allowed	The machine cannot be used to ot	her propose	Manual		
1.3	foreseeable misuse/misapplication	See AS/NZS 1418.10:2011 clause 1:	: scope.	Manual		
2	Field of use	See below				
	private	N/A		N/A		
	commercial	Professional		Manual		
3	User population	Task	Qualification			
	qualified personnel	Required	YES	Training Evidence		
	laities	N/A	N/A	N/A		
	apprentices	N/A	N/A	N/A		
	private use only:			•		
	children (declare age class)	age above years		N/A		
	older people			N/A		
	handicapped	kind of handicap		N/A		
4	Materials	See below				
4.1	dangerous operating supplies	🛛 Electricity 🖾 Hydraulic 🗌 Pneu	umatic 🗌 Thermal 🔲 Radiation	Manual		
4.2	Dangerous materials in the parts the machine is consisting of	The machine is not consisting of da	angerous materials	Manual		
4.3	Dangerous materials which may be processed by the machine	No dangerous materials processed	l by the machine	N/A		
The second second	ne phases of life according to AS 4024 include: transport assembling installation placing into operation setup teaching programming changeover working process cleaning process					

The phases of life according to AS 4024 include: transport, assembling, installation, placing into operation, setup, teaching, programming, changeover, working process, cleaning, process interferences, troubleshooting, fault clearance, maintenance, placing out of operation, disassembling, waste disposal

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ac		ssessmer to AS 4024	it	Manufacturer: Lingong Group Jinan He machine: Mobile Elevated Work Platform serial number: AS1413E		author: Lingong date: 2020.2.26		
	Identific	ation of hazards			Risk evaluation			n, AS 4024 or ISO or type I/II/III
Phase of life	Hazard group, type	Origin group, type	Potential consequences	occurrence or protection goal	Description of solution	Standards	S F P pl	Statement
1 Tra	nsport, assembli	ng, installation						

a		ssessmen to AS 4024	-	Manufacturer: Lingong Group Jinan He machine: Mobile Elevated Work Platform serial number: AS1413E						
	Identific	cation of hazards		Risk evaluation			Risk estima 13849			
Phase of life	Hazard group, type	Origin group, type	Potential consequences	occurrence or protection goal	Description of solution	Standards	s	FF	p pl	Statement
1.1	Hazards associated with all tasks	 Errors of fitting Lifting Loading Packing Transportation Unloading Unloading Unpacking Packing Adjustments Adjustments Assembly Connecting to disposal system (e.g. exhaust system, waste water installation) Connection to power supply Demonstration Feeding, filling, loading of ancillary fluids (e.g. 	 ☑ Crushing ☑ Cutting or severing □ Friction or abrasion ☑ Impact □ Injection ☑ Shearing ☑ Stabbing or puncture 	Machine , components and accessories	Inherently safe machinery design and inform users of the residual risks: Detail description for transportation, assembling and installation of machine are mentioned in manual.	AS/NZS 1418.10:2011 and MSD as reference,				OK

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a		ssessmen to AS 4024	-	Manufacturer: Lingong Group Jinan He machine: Mobile Elevated Work Platform serial number: AS1413E		author: Lingong date: 2020.2.26		
	Identification of hazards				Risk evaluation			ion, AS 4024 or ISO 1 or type I/II/III
Phase of life	Hazard group, type	Origin group, type	Potential consequences	occurrence or protection goal	Description of solution	Standards	S F P pl	Statement
		lubricant, grease, glue)						

a	-	ssessmen to AS 4024	-	Manufacturer: Lingong Group Jinan H machine: Mobile Elevated Work Platforn serial number: AS1413E							
	Identific	cation of hazards			Risk evaluation						ion, AS 4024 or ISO I or type I/II/III
Phase of life	Hazard group, type	Origin group, type	Potential consequences	occurrence or protection goal	Description of solution	Standards	s	F	Ρ	pl	Statement
1.2	Hazards associated with all tasks	 ☑ Fixing, anchoring ☑ Preparations for the installation (e.g. foundations, vibration isolators) ☑ Running the machine without load ☑ Testing ☑ Trials with load or maximum load □ Fencing 	See above	See above	See above	AS/NZS 1418.10:2011 and MSD as reference,					ОК
2.1	acing into operati Hazards associated with all tasks	on Refer to 1+3 ogramming, change	Refer to 1+3	Refer to 1+3	Refer to 1+3	Refer to 1+3					ОК

	Assessmen to AS 4024	-	Manufacturer: Lingong Group Jinan Heavy Machinery Co.Ltdauthor: Lingongmachine: Mobile Elevated Work Platformdate: 2020.2.1serial number: AS1413Edate: 2020.2.1					
Identif	ication of hazards			Risk evaluation				ion, AS 4024 or ISO 1 or type I/II/III
Phase Hazard group, of life type	Origin group, type	Potential consequences	occurrence or protection goal	Description of solution	Standards	SF	P pl	Statement
3.1 Hazards associated with all tasks	 ☑ Adjustment and setting of protective devices and other components ☑ Adjustment and setting or verification of functional parameters of the machine □ Clamping /fastening the workpiece □ Feeding, filling, loading of raw material ☑ Functional test, trials ☑ Mounting or changing tools, tool setting □ programming verification of the final product 	 ☑ Crushing ☑ Cutting or severing □ Friction or abrasion ☑ Impact □ Injection ☑ Shearing ☑ Stabbing or puncture 	Machine and components	Inherently safe machinery design and inform users of the residual risks: Refer to AS/NZS 1418.10:2011, clause 7 and manual	AS/NZS 1418.10:2011 + AS 60204.1-2005(+A1) + MSD as reference,			OK

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а		Assessmen to AS 4024	-	Manufacturer: Lingong Group Jinan H machine: Mobile Elevated Work Platforn serial number: AS1413E		author: Lingong date: 2020.2.26				
	Identifie	cation of hazards							ion, AS 4024 or ISO 1 or type I/II/III	
Phase of life	Hazard group, type	Origin group, type	Potential consequences	occurrence or protection goal	Description of solution	Standards	S F	P	pl	Statement
4.1	Mechanical Hazards	 Acceleration, deceleration (kinetic energy) Angular parts Approach of a moving element to a fixed part Cutting parts Cutting parts Elastic elements Falling objects Gravity (stored energy) Height from the ground High pressure Machinery mobility Rotating elements Sharp edges 	Being run over □ Being thrown □ Crushing □ Crushing or ∞ Cutting or severing □ Drawing-in or trapping □ Entanglement □ Friction or abrasion □ Injection □ Shearing □ Slipping, tripping and falling □ Stabbing or □ Suffocation		Inherently safe machinery design and construction, take necessary protection measures and inform users of the residual risks: Refer to AS/NZS 1418.10:2011, clause 7 and manual	AS/NZS 1418.10:2011 + AS 60204.1-2005(+A1)				ok

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a		ssessmen to AS 4024	-	Manufacturer: Lingong Group Jinan Hea machine: Mobile Elevated Work Platform serial number: AS1413E	avy Machinery Co.Ltd	author: Lingong date: 2020.2.26			
	Identification of hazards						ation, AS 4024 or ISO 9-1 or type I/II/III		
Phase of life	Hazard group, type	Origin group, type	Potential consequences	occurrence or protection goal	Description of solution	Standards	S F P pl	Statement	
		⊠Stability ⊡Vacuum							

a		Assessmen to AS 4024	-	Manufacturer: Lingong Group Jinan He machine: Mobile Elevated Work Platform serial number: AS1413E							
	Identification of hazards			Risk evaluation							tion, AS 4024 or ISO 1 or type I/II/III
Phase of life	Hazard group, type	Origin group, type	Potential consequences	occurrence or protection goal	Description of solution	Standards	s	6 F	Р	pl	Statement
4.2	See 4.1/4.3	See 4.1/4.3	See 4.1/4.3	See 4.1/4/3	See 4.1/4.3	See 4.1/4/3			Τ		See 4.1/4.3
4.3	Electrical Hazards	 □ Arc □ Electromagnetic phenomena ○ Electrostatic phenomena ○ Live parts □ Not enough distance to live parts under high voltage ○ Overload ○ Parts which have become live under fault conditions ○ Short-circuit □ Thermal radiation 	⊠ Burn □ Chemical effects □ Effects on medical implants ⊠ Electrocution ⊠ Falling, being thrown ⊠ Fire □ Projection of molten particles ⊠ Shock	Any risk related to electrical fault will be checked automatically and view check according to manual	Inherently safe machinery design and construction: Refer to AS/NZS 1418.10:2011 + AS 60204.1-2005(+A1) No electronic circuit for safety circuit	AS/NZS 1418.10:2011 + AS 60204.1-2005(+A1) as reference,					See 4.1

a	Identification of hazards Hazard group, type Origin group, type Potenti conseque Thermal Hazards Explosion Bun		Risk Assessment Manufacturer: Lingong Group Jinan Heavy Machinery Co.Ltd machine: Mobile Elevated Work Platform serial number: AS1413E		author: Lingong date: 2020.2.26						
										ion, AS 4024 or ISO 1 or type I/II/III	
Phase of life			Potential consequences	occurrence or protection goal	Description of solution	Standards	s	F	Ρ	pl	Statement
4.4	Thermal Hazards	_ ·	□Bun □Dehydration □Discomfort □Frostbite □Injuries by the radiation of heat sources □Scald	Not relevant	Not relevant	N/A					N/A

	Assessmen to AS 4024	-	Manufacturer: Lingong Group Jinan He machine: Mobile Elevated Work Platforn serial number: AS1413E								author: Lingong date: 2020.2.26						
Identi	fication of hazards			Risk evaluation					tion, AS 4024 or ISC ·1 or type I/II/III								
Phase Hazard group, of life type	Origin group, type	Potential consequences	occurrence or protection goal	Description of solution	Standards	s I	FI	P pl	Statement								
4.5 Noise hazards	 □Cavitation phenomena □Exhausting system □Gas leaking at high speed ☑Manufacturing process (stamping, cutting etc) ☑Moving parts □Scraping surfaces □Unbalanced rotating parts □Whisting pneumatics ☑Worn parts 	 ☑ Discomfort ☑ Loss of awareness ☑ Loss of balance ☑ Permanent hearing loss ☑ Stress ☑ Tinnitus ☑ Tiredness ☑ Any other (e.g. mechanical, electrical) as a consequence of an interference with speech communicatio n or with acoustic signals 	Refer to comments.	Inform users of the residual risks: The manual has indicated the sound pressure level below 70dB	AS/NZS 1418.10:2011+MSD				ОК								

a		ssessmen to AS 4024	-	Manufacturer: Lingong Group Jinan He machine: Mobile Elevated Work Platform serial number: AS1413E		author: Lingong date: 2020.2.26					
	Identific	ation of hazards			Risk evaluation		Ri				ion, AS 4024 or ISO 1 or type I/II/III
Phase of life	Hazard group, type	Origin group, type	Potential consequences	occurrence or protection goal	Description of solution	Standards	s	F	Р	pl	Statement
4.6	Vibration Hazards	 □ Cavitation phenomena □ Misalignment of moving parts □ Mobile equipment □ Scraping surfaces □ Unbalanced rotating parts □ Vibrating equipment □ Worn parts 	 ☑ Discomfort □ Low-back morbidity □ Neurological discorder □ Osteo- articular discorder □ Trauma of the spine □ Vascular disorder 	Vibration will neither make the passenger uncomfortable nor damage the structure	Inherently safe machinery design protects the vibration from discomforting passengers and from damaging the structure. Dynamic load test performed and found satisfactory	AS/NZS 1418.10:2011					ок

a		ssessmen to AS 4024	-	Manufacturer: Lingong Group Jinan He machine: Mobile Elevated Work Platform serial number: AS1413E		author: Lingong date: 2020.2.26					
	Identifie	cation of hazards			Risk evaluation		Ris				ion, AS 4024 or ISO I or type I/II/III
Phase of life	Hazard group, type	Origin group, type	Potential consequences	occurrence or protection goal	Description of solution	Standards	s	F	Ρ	pl	Statement
4.7	Radiation Hazards	 ☐Lionising radiation source ☐Low frequency electromagnetic radiation ☐Optical radiation linfrared, visible and ultraviolet), including laser ☐Radio frequency electromagnetic radiation 	 □ Burn □ Damage to eyes and skin □ Effects on reproductive capability □ Genetic mutation □ Headache, insomnia, etc. 	Not relevant	Not relevant	N/A					N/A

	Assessmer g to AS 4024	-	machine: Mobile Elevated Work Platform d serial number: AS1413E		author: Lingong date: 2020.2.26			
Ider	tification of hazards			Risk evaluation				ion, AS 4024 or ISO 1 or type I/II/III
Phase Hazard grou of life type	p, Origin group, type	Potential consequences	occurrence or protection goal	Description of solution	Standards	S F	P pl	Statement
4.8 Material/ substance hazards	 ☐Aerosol ☐Biological and microbiological (viral or bacterial) agent ☐Combustible ☐Dust ☐Explosive ☐Fibre ☐Flammable ☑Fluid ☐Fume ☐Gas ☐Mist ☐Oxidizer 	□Breathing difficulties, suffocation □Cancer □Corrosion □Effects on reproductive capability ☑Fire □Infection □Mutation □Poisoning □Sensitization □Static electricity risk	Not relevant	Not relevant	N/A			N/A

	Assessmen to AS 4024	-	Manufacturer: Lingong Group Jinan He machine: Mobile Elevated Work Platform serial number: AS1413E		author: Lingong date: 2020.2.26				
Identifi	cation of hazards			Risk evaluation		Risk			on, AS 4024 or ISO or type I/II/III
Phase Hazard group, of life type	Origin group, type	Potential consequences	occurrence or protection goal	Description of solution	Standards	S F	Р	pl	Statement
4.9 Ergonomic hazards	 ☑ Access ☑ Disign or location of indicators and visual displays units ☑ Design, location or identification of control devices ☑ Effort ☑ Flicker, dazzling, shadow, stroboscopic effect ☑ Local lighting ☑ Mental overload/underloa d ☑ Posture ☑ Repetitive activity ☑ Visibility 	 ☑ Discomfort ☑ Fatigue ☑ Musculoskelet al disorder ☑ Stress ☑ Any other (e.g.mechanica I, electrical) as a consequence of human error 	The position of control device need to be taken into account The access means need to be taken into account	Inherently safe machinery design	AS/NZS 1418.10:2011 as reference,				ок

a		ssessmen to AS 4024	-	Manufacturer: Lingong Group Jinan He machine: Mobile Elevated Work Platform serial number: AS1413E		author: Lingong date: 2020.2.26				
	Identific	ation of hazards			Risk evaluation		Ris			ion, AS 4024 or ISO 1 or type I/II/III
Phase of life	Hazard group, type	Origin group, type	Potential consequences	occurrence or protection goal	Description of solution	Standards	s	FF	p pl	Statement
4.10	Hazards associated with environment in which the machine is used	 ☑ Dust and fog ☑ Electromagnetic disturbance ☑ Lighting ☑ Moisture ☑ Pollution ☑ Snow ☑ Temperature ☑ Water ☑ Wind □ Lack of oxygen 	 □ Burn □ Slight disease □ Slipping, falling □ Suffocation □ Any other as a consequence of the effect caused by the sources of the hazards on the machine or parts of the machine 	Working condition and EMC need to be considered	Inherently safe machinery design and construction and inform users of the residual risks: 1.2204/108/EEC addressed 2. Lighting for the control panel is provided and the lighting for access is indicated in the manual 3. Snow, wind loads are considered in the design and structural calculation 4. Ambient temperature is defined in the manual 5. All electric parts are protected by the enclosure with enough IP degree according to AS/NZS 1418.10:2011	AS/NZS 1418.10:2011 + MSD as reference,				ОК
4.11	Combination of hazards	E.g.repetitive activity + effort + high environmental temperature	E.g. dehydration, loss of awareness, heat stroke	Not relevant	Not relevant	N/A				N/A

a		Assessmen to AS 4024	-	Manufacturer: Lingong Group Jinan H machine: Mobile Elevated Work Platforn serial number: AS1413E		author: Lingong date: 2020.2.26				
	Identifi	cation of hazards			Risk evaluation		Risk			on, AS 4024 or ISO or type I/II/III
Phase of life	Hazard group, type	Origin group, type	Potential consequences	occurrence or protection goal	Description of solution	Standards	S F	Р	pl	Statement
4.12	Energy loss ,breaking down hazards	 ☑ Failure of energy supply (incl. control circuits) ☑ Unexpected ejection of machine parts or fluid □ Errors of fitting 	□ Being thrown ⊠ Cutting or severing □ Drawing-in or trapping □ Entanglement □ Friction or abrasion □ Injection □ Shearing □ Slipping, tripping and falling □ Suffocation	All risk related to unexpected starting or energy loss need to be taken into account	Inherently safe machinery design and construction, take necessary protection measures: 1. Brakes and cut-off valves are designed to be engaged as soon as the power losses, preventing the lift from falling.	AS/NZS 1418.10:2011 + AS 60204.1-2005(+A1) + MSD as reference,				OK

a		ssessmen to AS 4024	-	Manufacturer: Lingong Group Jinan He machine: Mobile Elevated Work Platform serial number: AS1413E		author: Lingong date: 2020.2.26		
	Identific	ation of hazards			Risk evaluation			ion, AS 4024 or ISO 1 or type I/II/III
Phase of life	Hazard group, type	Origin group, type	Potential consequences	occurrence or protection goal	Description of solution	Standards	S F P pl	Statement

	Hazards	Adjustments	Crushing	Machine , components and accessories	Inherently safe machinery design	AS/NZS 1418.10:2011 + MSD	ОК
	associated with all tasks	□Cleaning, disinfection	⊠Cutting or severing		and inform users of the residual risks:	as reference,	
		☐Dismantling /removal of parts,	Friction or abrasion		Refer to AS/NZS 1418.10:2011 and manual		
		components, devices of the machine	⊠Impact				
	⊠lsolation end	Shearing					
		energy dissipation	Stabbing or puncture				
		Replacement of worn parts					
		Resetting					
	le p c	☐Restoring fluid levels					
		□Verification of parts, components,					
		devices of the machine					

6 Process interferences, troubleshooting, fault clearance

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ac		ssessmen to AS 4024		Manufacturer: Lingong Group Jinan He machine: Mobile Elevated Work Platform serial number: AS1413E		author: Lingong date: 2020.2.26				
	Identific	ation of hazards			Risk evaluation		Risk			on, AS 4024 or ISO I or type I/II/III
Phase of life	Hazard group, type	Origin group, type	Potential consequences	occurrence or protection goal	Description of solution	Standards	SF	Ρ	pl	Statement
	Hazards associated with all tasks	☑ Adjustments ☑ Dismantling /removal of parts, components, devices of the machine ☑ Faultfinding ☑ Isolation end energy dissipation ☑ Recovering from control and protective devices failure □ Recovering from jam ☑ Repairing ☑ Replacement of parts, components, devices of the machine ☑ Rescue of trapped persons ☑ Resetting	 ☑ Crushing ☑ Cutting or severing □ Friction or abrasion ☑ Impact □ Injection ☑ Shearing ☑ Stabbing or puncture 	Machine , components and accessories	Inherently safe machinery design and inform users of the residual risks: Refer to AS/NZS 1418.10:2011 clause 5 and manual	AS/NZS 1418.10:2011+ AS 60204.1-2005(+A1) + MSD as reference				ОК

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a		ssessmen to AS 4024	-	Manufacturer: Lingong Group Jinan He machine: Mobile Elevated Work Platform serial number: AS1413E		author: Lingong date: 2020.2.26					
	Identific	ation of hazards			Risk evaluation		R				ion, AS 4024 or ISO 1 or type I/II/III
Phase of life	Hazard group, type	Origin group, type	Potential consequences	occurrence or protection goal	Description of solution	Standards	s	F	Ρ	pl	Statement
		Verification of parts, components, devices of the machine									

a		ssessmer to AS 4024		Manufacturer: Lingong Group Jinan He machine: Mobile Elevated Work Platform serial number: AS1413E		author: Lingong date: 2020.2.26		
	Identific	ation of hazards			Risk evaluation			tion, AS 4024 or ISO 1 or type I/II/III
Phase of life	Hazard group, type	Origin group, type	Potential consequences	occurrence or protection goal	Description of solution	Standards	S F P pl	Statement

	Hazards associated with all tasks	Adjustments	□Crushing ⊠Cutting or severing	Machine , components and accessories	Inherently safe machinery design and inform users of the residual risks:	AS/NZS 1418.10:2011 as reference	ОК	
		⊠Dismantling /removal of parts, components,	Friction or abrasion		Refer to AS/NZS 1418.10:2011 clause 7			
		devices of the machine	⊠Impact					
			☐Injection ⊠Shearing					
	⊠Isolation end energy dissipation	Stabbing or puncture						
		⊠Replacement of worn parts						
		Resetting						
	ie produktivni pro	☐Restoring fluid levels						
		✓ Verification of parts, components, devices of the machine						

Risk Assessment according to AS 4024.1301			-	Manufacturer: Lingong Group Jinan He machine: Mobile Elevated Work Platform serial number: AS1413E	author: Lingong date: 2020.2.26			
	Identific	ation of hazards					ion, AS 4024 or ISO 1 or type I/II/III	
Phase of life	Hazard group, type	Origin group, type	Potential consequences	occurrence or protection goal	Description of solution	Standards	S F P pl	Statement

8 Placing out of operation, disassembling, waste disposal									
8.1	Hazards associated with all tasks	 ☑ Disconnection and energy dissipation ☑ Dismantling ☑ Lifting ☑ Loading ☑ Packing ☑ Transportation ☑ Unloading 	 □Crushing □Crushing or severing □Friction or abrasion □Impact □Injection □Shearing □Stabbing or puncture 	Machine , components and accessories	Inherently safe machinery design and inform users of the residual risks: Refer to AS/NZS 1418.10:2011	AS/NZS 1418.10:2011 as reference			ОК