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: SR1023D, SR1323D,SR1623D		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 🗌 Pner	umatic Thermal Radiation	Manual
4.2	Dangerous materials in the parts the machine is consisting of	The machine is not consisting of d	angerous materials	Manual
4.3	Dangerous materials which may be processed by the machine	No dangerous materials processed	by the machine	N/A
			actual teaching programming changeover working process cleaning process in	

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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a		ssessmen to AS 4024		Manufacturer: Lingong Group Jinan He machine: Mobile Elevated Work Platform serial number: SR1023D, SR1323D,SR162		author: Lingong date: 2020.2.26		
	Identific	ation of hazards			Risk evaluation			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	S F P pl	Statement
1 Tra	nsport, assembli	ng, installation	·	•				

	Assessmen to AS 4024	-	Manufacturer: Lingong Group Jinan He machine: Mobile Elevated Work Platform serial number: SR1023D, SR1323D,SR162		author: Lingong date: 2020.2.26					
ldentif	ication of hazards			Risk evaluation		Risk estimation, AS 13849-1 or typ				
Phase Hazard group, of life type	Origin group, type	Potential consequences	occurrence or protection goal	occurrence or protection goal Description of solution Standards				Р	pl	Statement
1.1 Hazards associated with all tasks	 Errors of fitting Lifting Loading Packing Transportation Unloading Unpacking 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

a		ssessmen to AS 4024	-	Manufacturer: Lingong Group Jinan He machine: Mobile Elevated Work Platform serial number: SR1023D, SR1323D,SR162		author: Lingong date: 2020.2.26		
	Identific	cation 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
		lubricant, grease, glue)						

a	_	ssessmen to AS 4024	-	Manufacturer: Lingong Group Jinan Heavy Machinery Co.Ltdauthor: Lingongmachine: Mobile Elevated Work Platformdate: 2020.2.26serial number: SR1023D, SR1323D,SR1623D										
	Identifie	cation of hazards			Risk evaluation					Risk estimation, AS 402 13849-1 or type I/I				
Phase of life	Hazard group, type	Origin group, type	Potential consequences	occurrence or protection goal	Description of solution	Standards	s	F	Р	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			
<u>2 Pla</u> 2.1	Acing into operati Hazards associated with all tasks	on Refer to 1+3	Refer to 1+3	Refer to 1+3	Refer to 1+3	Refer to 1+3					ок			
3 Set	tup, teaching, pro	ogramming, change	eover											

acc		ssessmen to AS 4024	-	Manufacturer: Lingong Group Jinan Heavy Machinery Co.Ltdauthor: Lingongmachine: Mobile Elevated Work Platformdate: 2020.2.26serial number: SR1023D, SR1323D, SR1623D				machine: Mobile Elevated Work Platform date: 2020.2.26						
	Identific	ation of hazards			Risk evaluation		Ris	Risk estimation, AS 402 13849-1 or type I/I						
Phase H of life	Hazard group, type	Origin group, type	Potential consequences	occurrence or protection goal	Description of solution	Standards	s	S F P pl		S F P pl		S F P pl		Statement
as all	azards ssociated with I 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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a		Assessmen to AS 4024	-	Manufacturer: Lingong Group Jinan H machine: Mobile Elevated Work Platforn serial number: SR1023D, SR1323D,SR16	n	author: Lingong date: 2020.2.26				
	Identifie	cation of hazards			Risk evaluation		Risk	Risk estimation, AS 402 13849-1 or type I/II		
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 Rough, slippery surface Sharp edges 	Being run over □ Being thrown ⊠ Crushing ⊠ Crushing 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: SR1023D, SR1323D,SR162		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
		⊠Stability ⊡Vacuum						

a		Assessmen to AS 4024	-	Manufacturer: Lingong Group Jinan He machine: Mobile Elevated Work Platform serial number: SR1023D, SR1323D,SR16		author: Lingong date: 2020.2.26								
	Identification of hazards				Risk evaluation		13849-				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				ls SFP				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					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	Risk Assessment Manufacturer: Lingong Group Jinan Heavy Machinery Co.Ltd according to AS 4024.1301 Serial number: SR1023D, SR1323D, SR1623D		author: Lingong date: 2020.2.26								
										ion, AS 4024 or ISO I 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	Explosion Flame Objects or materials with a high or low temperature Radiation from heat sources	□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 Platform serial number: SR1023D, SR1323D,SR16	1	author: Lingong date: 2020.2.26							
Identifi	cation of hazards			Risk evaluation					tion, 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	s	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				OK			

а		ssessmen to AS 4024	machine: Mobile Elevated Work Platform		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: SR1023D, SR1323D,SR16	author: Lingong date: 2020.2.26						
	Identifie	cation of hazards			Risk evaluation		Ris				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	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

_	Risk Assessment according to AS 4024.1301				author: Lingong date: 2020.2.26					
Identifi	cation of hazards			Risk evaluation		tion, 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 S F P			ol 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		

	Risk Assessment according to AS 4024.1301 Identification of hazards		Manufacturer: Lingong Group Jinan Heavy Machinery Co.Ltd machine: Mobile Elevated Work Platform serial number: SR1023D, SR1323D,SR1623D		author: Lingong date: 2020.2.26					
Identifi	cation of hazards			Risk evaluation					ation, AS 4024 or ISO 9-1 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 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,			0	Κ	

a		ssessmen to AS 4024	-			author: Lingong date: 2020.2.26						
	Identific	ation of hazards			Risk evaluation		R				tion, AS 4024 or ISO -1 or type I/II/III	
Phase of life	type type consequent Hazards associated with ⊠Dust and fog □Burn □Burn		Potential consequences	occurrence or protection goal	Description of solution	Standards	s	F	Ρ	pl	Statement	
4.10		 ☑ 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	

а		Assessmen to AS 4024	-	Manufacturer: Lingong Group Jinan H machine: Mobile Elevated Work Platforn serial number: SR1023D, SR1323D,SR16	n	author: Lingong date: 2020.2.26		
	Identifie	cation of hazards			Risk evaluation			tion, AS 4024 or ISO ·1 or type I/II/III
Phase of life	ie type type consequer Energy loss ,breaking down hazards Image: Second s			occurrence or protection goal	Description of solution	Standards	S F P pl	Statement
4.12	loss ,breaking	energy supply (incl. control		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,		ОК

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a		ssessmen o AS 4024	-	Manufacturer: Lingong Group Jinan He machine: Mobile Elevated Work Platform serial number: SR1023D, SR1323D,SR16		author: Lingong date: 2020.2.26		
	Identifica	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, components, devices of the machine □ Housekeeping ☑ Isolation end 	 ☑ Friction or abrasion ☑ Impact ☑ Injection ☑ Shearing 		Refer to AS/NZS 1418.10:2011 and manual		
	energy dissipation ⊠Lubrication ⊠Replacement of worn parts	puncture				
	Resetting					
	☐ Verification of parts, components, devices of the machine					

6 Process interferences, troubleshooting, fault clearance

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a	Risk Assessment according to AS 4024.1301		-	Manufacturer: Lingong Group Jinan Heavy Machinery Co.Ltd machine: Mobile Elevated Work Platform serial number: SR1023D, SR1323D,SR1623D		author: Lingong date: 2020.2.26				
	Identific	cation 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	SI	P	pl	Statement
6.1	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				OK

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a						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				occurrence or protection goal	Description of solution	Standards	s	F	Ρ	pl	Statement
		Verification of parts, components, devices of the machine									

a	_	ssessmen to AS 4024	-	Manufacturer: Lingong Group Jinan He machine: Mobile Elevated Work Platform serial number: SR1023D, SR1323D,SR16		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	Machine , components and accessories	Inherently safe machinery design and inform users of the residual risks:	AS/NZS 1418.10:2011 as reference	ОК
	disinfection ⊠Dismantling /removal of parts,	severing		Refer to AS/NZS 1418.10:2011 clause 7		
	components, devices of the Machine					
	machine					
	⊠lsolation end energy dissipation	Shearing				
		puncture				
	⊠Replacement of worn parts					
	Resetting					
	☐Restoring fluid levels					
	✓ Verification of parts, components, devices of the machine					

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Risk Assessment according to AS 4024.1301			-	Manufacturer: Lingong Group Jinan He machine: Mobile Elevated Work Platform serial number: SR1023D, SR1323D,SR162	author: Lingong date: 2020.2.26			
Identification 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 	☐ 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	