
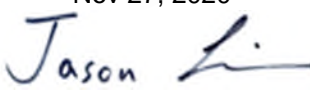


TEST REPORT Machinery Directive 2006/42/EC, ANNEX I Essential health and safety requirements relating to the design and construction of machinery	
Report Ref. No	ZA/2020/B0012D
Name and address of the Applicant	Kingtec Technical Co.,Ltd. 300032 1F., No. 189, Xida Rd., East Dist., Hsinchu City 300, Taiwan (R.O.C.)
Name and address of the manufacturer	Kingtec Technical Co.,Ltd. 300032 1F., No. 189, Xida Rd., East Dist., Hsinchu City 300, Taiwan (R.O.C.)
Rating(s)	Input power:100~240VAC
Product Name	KINGSSEL 3D Printer
Model/type	K-4040
Series Model(s)	K-1818 、 K-2327 、 K-3030 、 K-5050
Test specification	Machinery Directive 2006/42/EC, ANNEX I
Name and address of the testing laboratory	SGS Taiwan Ltd No. 33, Wu Chyuan Road, New Taipei Industrial Park, Wu Ku District, New Taipei City 24803, Taiwan
Tested site	Kingtec Technical Co.,Ltd. 300032 1F., No. 189, Xida Rd., East Dist., Hsinchu City 300, Taiwan (R.O.C.)
Tested date	Nov 23, 2020
Compiled by: Bruce Chen Nov 24, 2020  _____ Signature	Reviewed by: Jason Lin Reviewer Nov 27, 2020  _____ Signature
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2006/42/EC Annex I , Essential Health and Safety Requirements		
Clause	Requirements	Verdict / Result - remark
1.	Essential health and safety requirements	-
1.1.	General remarks	-
1.1.1.	Definitions	-
1.1.2	Principles of safety integration	-
a.	Machinery must be designed and constructed so that it is fitted for its function, and can be operated, adjusted and maintained without putting persons at risk when these operations are carried out under the conditions foreseen but also taking into account any reasonably foreseeable misuse thereof.	Pass
	The aim of measures taken must be to eliminate any risk throughout the foreseeable lifetime of the machinery including the phases of transport, assembly, dismantling, disabling and scrapping.	Pass These requirements have been complied with.
b.	In selecting the most appropriate methods, the manufacturer or his authorized representative must apply the following principles, in the order given: eliminate or reduce risks as far as possible (inherently safe machinery design and construction), take the necessary protective measures in relation to risks that cannot be eliminated, inform users of the residual risks due to any shortcomings of the protective measures adopted, indicate whether any particular training is required and specify any need to provide personal protective equipment.	Pass Adequate safety guarding system and warning labels are provided on this machine. Risk reduction and risk assessment according to ISO 12100:2010 and the related product and safety standard. The warnings and labels are provided in the appropriate spots.
c.	When designing and constructing machinery and when drafting the instructions, the manufacturer or his authorized representative must envisage not only the intended use of the machinery but also any reasonably foreseeable misuse thereof.	Pass The user limit has been stated in the manual.
	The machinery must be designed and constructed in such a way as to prevent abnormal use is such use would engender a risk Where appropriate, the instructions must draw the user's attention to ways –which experience has shown might occur - in which the machinery should not be used.	Pass This requirement has been complied with, and the related information also has been provided within the instruction manual.
d	Machinery must be designed and constructed to take account of the constraints to which the operator is subject as a result of the necessary or foreseeable use of personal protective equipment.	Pass This requirement has been complied with.
e	Machinery must be supplied with all the special equipment and accessories essential to enable it to be adjusted, maintained and used safely.	Pass This requirement has been complied with.

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1.1.3.	Materials and products	-
	The materials used to construct machinery or products used or created during its use must not endanger person's safety or health. In particular, where fluids are used, machinery must be designed and constructed to prevent risks due to filling, use, recovery or draining.	Pass Materials used in construction of this machine do not endanger persons' health and safety.
1.1.4	Lighting	-
	Machinery must be supplied with integral lighting suitable for the operations concerned where the absence thereof is likely to cause a risk despite ambient lighting of normal intensity. Machinery must be designed and constructed so that there is no area of shadow likely to cause nuisance, that there is no irritating dazzle and that there are no dangerous stroboscopic effects on moving parts due to lighting. Internal parts requiring frequent inspection and adjustment, and maintenance areas must be provided with appropriate lighting	N/A No Integral lighting provided. Ambient lighting should be provided by user.
1.1.5.	Design of machinery to facilitate its handling Machinery, or each component part thereof, must: <ul style="list-style-type: none"> - be capable of being handled and transported safely, - Be packaged or designed so that it can be stored safely and without damage. During the transportation of the machinery and/or its component parts, there must be no possibility of sudden movements or of hazards due to instability as long as the machinery and/or its component parts are handled in accordance with the instructions. 	Pass This machine can be transported, stored safely without damage. The transported methods including the lifting and fork truck and the environment condition of storage were provided in the user instructions.
	Where the weight, size or shape of machinery or its various component parts prevents them from being moved by hand, the machinery or each components part must: <ul style="list-style-type: none"> - Either be fitted with attachments for lifting gear or be designed so that it can be fitted with such attachments or be shaped in such a way that standard lifting gear can easily be attached. Where machinery or one of its component parts is to be moved by hand, it must: 	Pass The requirement has been considered.
	- Either be easily movable,	Pass The machine attached wheels which could be easily moved.
	- or be equipped for picking up and moving	Considered

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	safely. Special arrangements must be made for the handling of tools and/or machinery parts which, even if lightweight, could be hazardous.	See user manual for transportation procedures.
1.1.6.	Ergonomics	-
	Under the intended conditions of use, the discomfort, fatigue and physical and psychological stress faced by the operator must be reduced to the minimum possible, taking into account ergonomic principles such as: <ul style="list-style-type: none"> - allowing for the variability of the operator's physical dimensions, strength and stamina, - providing enough space for movements of the parts of the operator's body, - avoiding a machine-determined work rate, - avoiding monitoring that requires lengthy concentration, - adapting the man/machinery interface to the foreseeable characteristics of the operators 	Pass Ergonomic principles have been incorporated into the design of the machinery, taking into account stress and limit of the operator.
1.1.7	Operating positions	-
	The operating position must be designed and constructed in such a way as to avoid any risk due to exhaust gases and/or lack of oxygen.	Pass Such risks are avoided. There is no position where lack of oxygen.
	If the machinery is intended to be used in a hazardous environment presenting risks to the health and safety of the operator or if the machinery itself gives rise to a hazardous environment, adequate means must be provided to ensure that the operator has good working conditions and is protected against any foreseeable hazards	N/A This machine is not intended to be used in hazardous environment; the machine itself will not give rise to a hazardous environment as well.
	Where appropriate, the operating position must be fitted with an adequate cabin designed, constructed and/or equipped to fulfill the above requirements. The exit must allow rapid evacuation. Moreover, when applicable, an emergency exit must be provided in a direction which is different from the usual exit.	N/A No cabinet provided.
1.1.8	Seating	-
	Where appropriate and where the working conditions so permit, work stations constituting an integral part of the machinery must be designed for the installation of seats	N/A No seat provided.
	If the operator is intended to sit during operation and the operating position is an integral part of the machinery, the seat must be provided with the machinery.	N/A No seat provided.
	The operator's seat must enable him to	N/A

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	maintain a stable position. Furthermore, the seat and its distance from the control devices must be capable of being adapted to the operator.	No seat provided.
	If the machinery is subject to vibrations, the seat must be designed and constructed in such a way as to reduce the vibrations transmitted to the operator to the lowest level that is reasonably possible. The seat mountings must withstand all stresses to which they can be subjected. Where there is no floor beneath the feet of the operator, footrests covered with a slip-resistant material must be provided.	N/A No seat provided.
1.2	Control systems	-
1.2.1	Safety and reliability of control systems	-
	Control systems must be designed and constructed in such a way as to prevent hazardous situations from arising. Above all, they must be designed and constructed in such a way that:	-
	they can withstand the intended operating stresses and external influences, a fault in the hardware or the software of the control system does not lead to hazardous situations, errors in the control system logic do not lead to dangerous situations, - reasonably foreseeable human error during operation does not lead to hazardous situations. Particular attention must be given to the following points: - the machinery must not start unexpectedly,	Pass The control system can withstand related effects during normal operation. The machinery will not start unexpectedly but only by operator.
	- the parameters of the machinery must not change in an uncontrolled way, where such change may lead to hazardous situations,	Pass The parameters shall be controlled by authorized operator.
	- the machinery must not be prevented from stopping if the stop command has already been given, no moving part of the machinery or piece held by the machinery must fall or be ejected, automatic or manual stopping of the moving parts, whatever they may be, must be unimpeded, - the protective devices must remain fully effective or give a stop command,	Pass The stop command stability has been checked by functional checking and electrical drawing.
	- the safety-related parts of the control system must apply in a coherent way to the whole of an assembly of machinery and/or partly completed machinery.	Pass The safety-related parts are assembled in a logical manner; please refer to vendor manual for more details.

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Clause	Requirements	Verdict / Result - remark
	For cable-less control, an automatic stop must be activated when correct control signals are not received, including loss of communication.	N/A Not cable-less control.
1.2.2	Control devices	-
	Control devices must be: - clearly visible and identifiable, using pictograms where appropriate,	Pass Appropriate labels and marking are provided.
	- positioned in such a way as to be safely operated without hesitation or loss of time and without ambiguity,	Pass The operating position is in a way which safely and loss no time to control the machine.
	- designed in such a way that the movement of the control device is consistent with its effect,	Pass Reliable devices are used and effect at all times.
	- located outside the danger zones, except where necessary for certain control devices such as an emergency stop or a teach pendant,	Pass The operating position is located outside the danger zones.
	- positioned in such a way that their operation cannot cause additional risk,	Pass The operation cause no additional risk.
	- designed or protected in such a way that the desired effect, where a hazard is involved, can only be achieved by a deliberate action,	Pass The requirement ahs been taken into account.
	- made in such a way as to withstand foreseeable forces; particular attention must be paid to emergency stop devices liable to be subjected to considerable forces.	NA There is no emergency stop. The danger zone is completely separated by safety guard during the machine oprating.
	Where a control device is designed and constructed to perform several different actions, namely where there is no one-to-one correspondence, the action to be performed must be clearly displayed and subject to confirmation, where necessary.	N/A No such control devices are used.
	Control devices must be so arranged that their layout, travel and resistance to operation are compatible with the action to be performed, taking account of ergonomic principles.	Pass The requirements have been taken into account during design.
	Machinery must be fitted with indicators as required for safe operation. The operator must be able to read them from the control position.	Pass The operator could read the required information on the electrical panel.
	From each control position, the operator must be able to ensure that no one is in the danger zones, or the control system must be designed and constructed in such a way that starting is prevented while someone is in the danger zone	Pass The danger zones are separated by safety guarding so operator can ensure no one is in the danger zone before machine starting.
	If neither of these possibilities is applicable, before the machinery starts, an acoustic and/or visual warning signal must be given. The	N/A Due to a small scale of machine, operator could aware of danger and

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	exposed persons must have time to leave the danger zone or prevent the machinery starting up.	have enough time to leave.
	If necessary, means must be provided to ensure that the machinery can be controlled only from control positions located in one or more predetermined zones or locations.	Pass Only one control position.
	Where there is more than one control position, the control system must be designed in such a way that the use of one of them precludes the use of the others, except for stop controls and emergency stops.	N/A There is only one control position.
	When machinery has two or more operating positions, each position must be provided with all the required control devices without the operators hindering or putting each other into a hazardous situation.	N/A There is only one control position.
1.2.3.	Starting	-
	It must be possible to start machinery only by voluntary actuation of a control device provided for the purpose.	Pass The machine can be started only by voluntary actuation.
	The same requirement applies: - when restarting the machinery after stoppage, whatever the cause,	Pass The restart could be conducted only by operator voluntary actuation.
	- When effecting a significant change in the operating conditions.	Pass This requirement has been complied with.
	However, the restarting of the machinery or a change in operating conditions may be effected by voluntary actuation of a device other than the control device provided for the purpose, on condition that this does not lead to a hazardous situation.	Pass This requirement has been complied with. It will not be leaded to a hazardous situation.
	For machinery functioning in automatic mode, the starting of the machinery, restarting after a stoppage, or a change in operating conditions may be possible without intervention, provided this does not lead to a hazardous situation.	Pass This requirement has been complied with. Any error must be eliminated in manual mode and restart by operator voluntary actuation.
	Where machinery has several starting control devices and the operators can therefore put each other in danger, additional devices must be fitted to rule out such risks. If safety requires that starting and/or stopping must be performed in a specific sequence, there must be devices which ensure that these operations are performed in the correct order.	N/A There is only one control position.
1.2.4	Stopping	-
1.2.4.1	Normal stop Machinery must be fitted with a control device whereby the machinery can be brought safely	Pass The starting control complies with the this requirement.

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	to a complete stop.	
	Each workstation must be fitted with a control device to stop some or all of the functions of the machinery, depending on the existing hazards, so that the machinery is rendered safe.	Pass The on-off switch is provided to stop some functions.
	The machinery's stop control must have priority over the start controls	Pass The stop control overrides the start controls.
	Once the machinery or its hazardous functions have stopped, the energy supply to the actuators concerned must be cut off.	Pass This requirement has been complied with.
1.2.4.2.	Operational stop Where, for operational reasons, a stop control that does not cut off the energy supply to the actuators is required, the stop condition must be monitored and maintained.	N/A There is no operational stop provided.
1.2.4.3.	Emergency stop Machinery must be fitted with one or more emergency stop devices to enable actual or impending danger to be averted. The following exceptions apply:	N/A There is no need to install an emergency stop on machine itself. Since the emergency stop would not enable the special measures required to deal with the risk to be taken
	- machinery in which an emergency stop device would not lessen the risk, either because it would not reduce the stopping time or because it would not enable the special measures required to deal with the risk to be taken,	N/A There is none emergency stop.
	- portable hand-held and/or hand-guided machinery.	N/A This is not portable machinery.
	The device must: - have clearly identifiable, clearly visible and quickly accessible controls devices, - stop the hazardous process as quickly as possible, without creating additional risks, - where necessary, trigger or permit the triggering of certain safeguard movements.	N/A This is not portable machinery.
	Once active operation of the emergency stop device has ceased following a stop command, that command must be sustained by engagement of the emergency stop device until that engagement is specifically overridden; it must not be possible to engage the device without triggering a stop command; it must be possible to disengage the device only by an appropriate operation, and disengaging the device must not restart the machinery but only permit restarting.	N/A There is none emergency stop.

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	The emergency stop function must be available and operational at all times, regardless of the operating mode.	Pass N/A There is none emergency stop.
	Emergency stop devices must be a back-up to other safeguarding measures and not a substitute for them.	N/A There is none emergency stop.
1.2.4.4.	Assembly of machinery	-
	In the case of machinery or parts of machinery designed to work together, the machinery must be designed and constructed in such a way that the stop controls, including the emergency stop devices, can stop not only the machinery itself but also all related equipment, if its continued operation may be dangerous.	Pass This requirement has been complied with.
1.2.5	Selection of control or operating modes	-
	The control or operating mode selected must override all other control or operating modes, with the exception of the emergency stop.	N/A
	If machinery has been designed and constructed to allow its use in several control or operating modes requiring different protective measures and/or work procedures, it must be fitted with a mode selector which can be locked in each position. Each position of the selector must be clearly identifiable and must correspond to a single operating or control mode.	N/A
	The selector may be replaced by another selection method which restricts the use of certain functions of the machinery to certain categories of operator.	N/A
	If, for certain operations, the machinery must be able to operate with a guard displaced or removed and/or a protective device disabled, the control or operating mode selector must simultaneously: - disable all other control or operating modes, - permit operation of hazardous functions only by control devices requiring sustained action, - permit the operation of hazardous functions only in reduced risk conditions while preventing hazards from linked sequences, - prevent any operation of hazardous functions by voluntary or involuntary action on the machine's sensors.	N/A There is none operations to operate with a guard displaced.
	If these four conditions cannot be fulfilled simultaneously, the control or operating mode	N/A

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	selector must activate other protective measures designed and constructed to ensure a safe intervention zone. In addition, the operator must be able to control operation of the parts he is working on from the adjustment point.	
1.2.6	Failure of the power supply The interruption, re-establishment after an interruption or the fluctuation in whatever manner of the power supply to the machinery must not lead to dangerous situations	Pass No any dangerous situation has been found.
	Particular attention must be given to the following points: - the machinery must not start unexpectedly,	Pass In the event of a power interruption, the machinery will not start unexpectedly.
	- the parameters of the machinery must not change in an uncontrolled way when such change can lead to hazardous situations,	Pass the parameters of the machinery will not change in an uncontrolled way.
	- the machinery must not be prevented from stopping if the command has already been given,	Pass The requirement has been fulfilled with.
	- no moving part of the machinery or piece held by the machinery must fall or be ejected,	Pass The requirement has been fulfilled with.
	- automatic or manual stopping of the moving parts, whatever they may be, must be unimpeded,	Pass The requirement has been fulfilled with.
	- the protective devices must remain fully effective or give a stop command.	Pass The protective devices remain fully effective.
1.3.	Protection against mechanical hazards	-
1.3.1.	Risk of loss of stability Machinery and its components and fittings must be stable enough to avoid overturning, falling or uncontrolled movements during transportation, assembly, dismantling and any other action involving the machinery.	Pass The machine is designed to provide enough stability during any action.
	If the shape of the machinery itself or its intended installation does not offer sufficient stability, appropriate means of anchorage must be incorporated and indicated in the instructions	N/A
1.3.2	Risk of break-up during operation The various parts of machinery and their linkages must be able to withstand the stress to which they are subject when used.	Pass The materials of mechanism and construction body are designed and selected to withstand the foreseeable stress.
	The durability of the materials used must be adequate for the nature of the working environment foreseen by the manufacturer or	Pass The materials are selected and treated against the external environmental

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	his authorized representative, in particular as regards the phenomena of fatigue, aging, corrosion and abrasion	effects.
	The instructions must indicate the type and frequency of inspections and maintenance required for safety reasons. They must, where appropriate, indicate the parts subject to wear and the criteria for replacement	Pass This requirement has been complied with. Please refer to the user instruction.
	Where a risk of rupture or disintegration remains despite the measures taken, the parts concerned must be mounted, positioned and/or guarded in such a way that any fragments will be contained	N/A
	Both rigid and flexible pipes carrying fluids, particularly those under high pressure, must be able to withstand the foreseen internal and external stresses and must be firmly attached and/or protected to ensure that no risk is posed by a rupture.	Pass The pipes used carrying fluids are reliable and able to withstand the foreseeable stress.
	Where the material to be processed is fed to the tool automatically, the following conditions must be fulfilled to avoid risks to persons:	-
	- when the work piece comes into contact with the tool, the latter must have attained its normal working condition,	Pass
	- when the tool starts and/or stops (intentionally or accidentally), the feed movement and the tool movement must be coordinated.	Pass
1.3.3.	Risks due to falling or ejected objects Precautions must be taken to prevent risks from falling or ejected objects.	Pass
1.3.4.	Risks due to surfaces, edges or angles Insofar as their purpose allows, accessible parts of the machinery must have no sharp edges, no sharp angles, and no rough surfaces likely to cause injury.	Pass No sharp edges, no sharp angles, and no rough surfaces likely to cause injury.
1.3.5.	Risks related to combined machinery Where the machinery is intended to carry out several different operations with manual removal of the piece between each operation (combined machinery) it must be designed and constructed in such a way as to enable each element to be used separately without the other elements constituting a risk for exposed persons.	N/A Not a combined machine. One operator only.
	For this purpose, it must be possible to start and stop separately and elements that are not protected.	N/A Not a combined machine.
1.3.6	Risks related to variations in operating	N/A

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	conditions Where the machinery performs operations under different conditions of use, it must be designed and constructed in such a way that selection and adjustment of these conditions can be carried out safely and reliably.	The machine is designed for one operation.
1.3.7	Risks related to moving parts The moving parts of machinery must be designed and constructed in such a way as to prevent risks of contact which could lead to accidents or must, where risks persist, be fitted with guards or protective devices.	Pass
	All necessary steps must be taken to prevent accidental blockage of moving parts involved in the working zone. In cases where, despite the precaution taken, a blockage is likely to occur, the necessary specific protective devices and tools must, when appropriate, be provided to enable the equipment to be safely unblocked.	Pass This requirement has been complied with.
	The instructions and, where possible, a sign on the machinery shall identify these specific protective devices and how they are to be used.	Pass Appropriate warning signs are attached on the machine and described in the instruction manual.
1.3.8	Choice of protection against risk arising from moving parts	-
	Guards or protective devices designed to protect against risks arising from moving parts must be selected on the basis of the type of risk. The following guidelines must be used to help to make the choice.	Pass They have been protected by appropriate guards.
1.3.8.1.	Moving transmission parts Guards designed to protect persons against the hazards generated by moving transmission parts must be: - Either fixed guards as referred to in section 1.4.2.1, or - interlocking movable guards, as referred to in section 1.4.2.2. Interlocking movable guards should be used where frequent access is envisaged.	Pass Fix guards are used.
1.3.8.2.	Moving parts involved in the process Guards or protective devices designed to protect persons against the hazards generated by moving parts involved in the process must be: - either fixed guards as referred to in section 1.4.2.1, - interlocking movable guards as referred to in section 1.4.2.2, - protective devices as referred to in	Pass Enclosed fixed covers/guards are provided.

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	section 1.4.3, or - A combination of the above.	
	However, when certain moving parts directly involved in the process cannot be made completely inaccessible during operation owing to operations requiring operator intervention, such parts must be fitted with: <ul style="list-style-type: none"> - fixed guards or interlocking movable guards, preventing access to those sections of the parts that are not used in the work, and - adjustable guards as referred to in section 1.4.2.3 restricting access to those section of the moving parts where access is necessary. 	N/A
1.3.9.	Risks of uncontrolled movements	-
	When a part of the machinery has been stopped, any drift away from the stopping position, for whatever reason other than action on the control devices, must be prevented or must be such that it does not present a hazard.	Pass
1.4.	Required characteristics of guards and protective devices	-
1.4.1	General requirements Guards and protective devices must: <ul style="list-style-type: none"> - be of robust construction, - be securely held in place, - not give rise to any additional hazard, - not be easy to by-pass or render non-operational, - be located at an adequate distance from the danger zone, - cause minimum obstruction to the view of the production process, and - enable essential work to be carried out on the installation and/or replacement of tools and for maintenance purposes by restricting access exclusively to the area where the work has to be done, if possible without the guard having to be removed or protective device having to be disabled. 	Pass The fixed guards are made of robust materials with safe design and give no additional risk. They located at an adequate distance from danger zone and not easy to be bypassed.
	In addition, guards must, where possible, protect against the ejection or falling of materials or objects and against emissions generated by the machinery.	Pass This requirement has been complied with.
1.4.2.	Special requirements for guards	-
1.4.2.1.	Fixed guards Fixed guards must be fixed by systems that can be opened or removed only with tools.	Pass Fixed guards can only open with tools.

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	Their fixing systems must remain attached to the guards or to the machinery when the guards are removed. Where possible, guards must be incapable of remaining in place without their fixings.	N/A The fixing system is recommended to manufacturer.
1.4.2.2.	Interlocking movable guards Interlocking movable guards must: - as far as possible remain attached to the machinery when open, be designed and constructed in such a way that they can be adjusted only by means of an intentional action.	N/A No interlocking movable guards are used.
	Interlocking movable guards must be associated with an interlocking device that: Prevents the start of hazardous machinery functions until they are closed and gives a stop command whenever they are no longer closed.	N/A No interlocking movable guards are used.
	Where it is possible for an operator to reach the danger zone before the risk due to the hazardous machinery functions has ceased, movable guards must be associated with a guard locking device in addition to an interlocking device that: prevents the start of hazardous machinery functions until the guard is closed and locked, and - keeps the guard closed and locked until the risk of injury from the hazardous machinery functions has ceased. Interlocking movable guards must be designed in such a way that the absence or failure of one of their components prevents starting or stops the hazardous machinery functions.	N/A No interlocking movable guards are used.
1.4.2.3.	Adjustable guards restricting access	-
	Adjustable guards restricting access to those areas of the moving parts strictly necessary for the work must be: - adjustable manually or automatically, depending on the type of work involved, and - readily adjustable without the use of tools.	N/A No adjustable guards are used.
1.4.3.	Special requirements for protective devices	-
	Protective devices must be designed and incorporated into the control system in such a way that: - moving parts cannot start up while they are within the operator's reach, - persons cannot reach moving parts while the parts are moving, and - the absence or failure of one of their components prevents starting or stops the moving parts	Pass These requirements have been taken into account during design.

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	Protective devices must be adjustable only by means of an intentional action.	
1.5.	Risks due to other hazards	-
1.5.1	Electricity supply Where machinery has an electricity supply, it must be designed, constructed and equipped in such a way that all hazards of an electrical nature are or can be prevented.	Pass All electrical equipment and application is in compliance with this requirement.
	The safety objectives set out in Directive 2014/35/EU shall apply to machinery. However, the obligations concerning conformity assessment and the placing on the market and/or putting into service of machinery with regard to electrical hazards are governed solely by this Directive	Pass The machine has been complied with.
1.5.2	Static electricity Machinery must be so designed and constructed to prevent or limit the build-up of potentially dangerous electrostatic charges and/or be fitted with a discharging system.	Pass The machine has been complied with.
1.5.3.	Energy supply other than electricity Where machinery is powered by source of energy other than electricity, it must be so designed, constructed and equipped as to avoid all potential risks associated with such source of energy.	Pass The risks of energy other than electricity have been considered.
1.5.4.	Errors of fitting Errors likely to be made when fitting or refitting certain parts which could be a source of risk must be made impossible by the design and construction of such parts or, failing this, by information given on the parts themselves and/or their housings. The same information must be given on moving parts and/or their housings where the direction of movement needs to be known in order to avoid a risk.	Pass This requirement has been considered.
	Where necessary, the instructions must give further information on these risks	Pass The instructions have given information about the fitting of related parts.
	Where a faulty connection can be the source of risk, incorrect connections must be made impossible by design or, failing this, by information given on the elements to be connected and, where appropriate, on the means of connection.	Pass. This requirement has been complied with.
1.5.5	Extreme temperatures Steps must be taken to eliminate any risk of injury arising from contact with or proximity to machinery parts or materials at high or very low temperatures. The necessary steps must be	N/A The machine is not designed to use under an extreme temperature environment.

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	taken to avoid or protect against the risk of hot or very cold material being ejected.	
1.5.6	Fire	-
	Machinery must be designed and constructed in such a way as to avoid any risk of fire or overheating posed by the machinery itself or by gases, liquids, dust, vapors or other substances produced or used by the machinery.	Pass
1.5.7	Explosion Machinery must be designed and constructed in such a way as to avoid any risk of explosion posed by the machinery itself or by gases, liquids, dust, vapors or other substances produced or used by the machinery.	N/A The machine is not designed to use under an explosive environment.
	Machinery must comply, as far as the risk of explosion due to its use in a potentially explosive atmosphere is concerned, with the provisions of the specific Community Directives.	N/A The machine is not designed to use under an explosive environment.
1.5.8	Noise Machinery must be designed and constructed in such a way that risks resulting from the emission of airborne noise are reduced to the lowest level, taking account of technical progress and the availability of means of reducing noise, in particular at source.	Pass The design and construction of this machines are in conformity with this requirements.
	The level of noise emission may be assessed with reference to comparative emission data for similar machinery.	Pass These requirements have been taken into account during design.
1.5.9	Vibrations Machinery must be designed and constructed in such a way that risks resulting from vibrations produced by the machinery are reduced to the lowest level, taking account of technical progress and the availability of means of reducing vibration, in particular at source.	N/A
	The level of vibration emission may be assessed with reference to comparative emission data for similar machinery.	N/A
1.5.10	Radiation Undesirable radiation emissions from the machinery must be eliminated or be reduced to levels that do not have adverse effects on persons.	N/A No radiation emission.
	Any functional ionizing radiation emissions must be limited to the lowest level which is sufficient for the proper functioning of the machinery during setting, operation and cleaning. Where a risk exists, the necessary	N/A

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	protective measures must be taken.	
	Any functional non-ionizing radiation emissions during setting, operation and cleaning must be limited to levels that do not have adverse effects on persons.	N/A
1.5.11	External radiation Machinery must be designed and constructed in such a way that external radiation does not interfere with its operation.	Pass External radiation does not affect the operation of machine.
1.5.12	Laser radiation Where laser equipment is used, the following should be taken into account: - laser equipment on machinery must be designed and constructed in such a way as to prevent any accidental radiation,	N/A No laser equipment is used.
	- laser equipment on machinery must be protected in such a way that effective radiation, radiation produced by reflection or diffusion and secondary radiation do not damage health,	N/A
	- optical equipment for the observation or adjustment of laser equipment on machinery must be such that no health risk is created by the laser radiation	N/A
1.5.13	Emissions of hazardous materials and substances Machinery must be designed and constructed in such a way that risks of inhalation, ingestion, contact with the skin, eyes and mucous membranes and penetration through the skin of hazardous materials and substances which it produces can be avoided.	N/A No hazardous material or substance emission.
	Where a hazard cannot be eliminated, the machinery must be so equipped that hazardous materials and substances can be contained, evacuated, precipitated by water spraying, filtered or treated by another equally effective method.	N/A No hazardous material or substance emission.
	Where the process is not totally enclosed during normal operation of the machinery, the devices for containment and/or evacuation must be situated in such a way as to have the maximum effect.	N/A No hazardous material or substance emission.
1.5.14	Risk of being trapped in a machine Machinery must be designed, constructed or fitted with a means of preventing a person from being enclosed within it or, if that is impossible, with a means of summoning help.	Pass Not possible to be enclosed in it.
1.5.15	Risk of slipping, tripping or falling Parts of the machinery where persons are	Pass

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	liable to move about or stand must be designed and constructed in such a way as to prevent persons slipping, tripping or falling on or off these parts.	
	Where appropriate, these parts must be fitted with handholds that are fixed relative to the user and that enable them to maintain their stability	N/A No handhold provided.
1.5.16	Lightning Machinery in need of protection against the effects of lightning while being used must be fitted with a system for conducting the resultant electrical charge to earth	Pass Appropriate lightning protection need to be provided by external device. Please read user manual for this information.
1.6	Maintenance	-
1.6.1	Machinery maintenance	-
	Adjustment and maintenance points must be located outside danger zones. It must be possible to carry out adjustment, maintenance, repair, cleaning and servicing operations while machinery is at a standstill. If one or more of the above conditions cannot be satisfied for technical reasons, measures must be taken to ensure that these operations can be carried out safely (see section 1.2.5)	Pass Maintenance points are located outside the danger zones; it is possible to carry out maintenance task lists while the machinery is at a standstill.
	In the case of automated machinery and, where necessary, other machinery, a connecting device for mounting diagnostic fault-finding equipment must be provided.	N/A
	Automated machinery components which have to be changed frequently must be capable of being removed and replaced easily and safely. Access to the components must enable these tasks to be carried out with the necessary technical means in accordance with a specified operating method	Pass This requirement has been complied with.
1.6.2.	Access to operating positions and servicing points Machinery must be designed and constructed in such a way as to allow access in safety to all area where intervention is necessary during operation, adjustment and maintenance of the machinery.	Pass Appropriate guards and safety control devices have been used. Before any maintenance conducts, the power supply must be cut off. It also describes in the user instructions.
1.6.3	Isolation of energy sources	-
	Machinery must be fitted with means to isolate it from all energy sources. Such isolators must be clearly identified.	Pass Main switch connect to circuit breaker can isolate the supply of electricity.
	They must be capable of being locked if reconnection could endanger persons.	Pass
	Isolators must also be capable of being locked where an operator is unable, from any of the	Pass

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	points to which he has access, to check that the energy is still cut off.	
	In the case of machinery capable of being plugged into an electricity supply, removal of the plug is sufficient, provided that the operator can check from any of the points to which he has access that the plug remains removed	Pass The operator can observe the plug removed from point of the machine.
	After the energy is cut off, it must be possible to dissipate normally any energy remaining or stored in the circuits of the machinery without risk to persons.	Pass No energy remains in the machine after the power is cut off.
	As an exception to the requirement laid down in the previous paragraphs, certain circuits may remain connected to their energy sources in order, for example, to hold parts, to protect information, light interiors, etc. In this case, special steps must be taken to ensure operator safety.	N/A
1.6.4.	Operator intervention	-
	Machinery must be so designed, constructed and equipped that the need for operator intervention is limited. If operator intervention cannot be avoided, it must be possible to carry it out easily and safely.	Pass The machine requires limited operator intervention.
1.6.5.	Cleaning of internal parts	-
	The machinery must be designed and constructed in such a way that it is possible to clean internal parts which have contained dangerous substances or preparations without entering them; any necessary unblocking must also be possible from the outside. If it is impossible to avoid entering the machinery, it must be designed and constructed in such a way as to allow cleaning to take place safely	Pass Cleaning of internal parts can be done from the outside.
1.7	Information	-
1.7.1	Information and warnings on the machinery should preferably be provided in the form of readily understandable symbols or pictograms. Any written or verbal information and warnings must be expressed in an official Community language or languages, which may be determined in accordance with the Treaty by the Member State in which the machinery is placed on the market and/or put into service and may be accompanied, on request, by versions in any other official Community language or languages understood by the operators	Pass The information is identified clearly and can be easily understood.
1.7.1.1	Information and information devices	Pass

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2006/42/EC Annex I , Essential Health and Safety Requirements		
Clause	Requirements	Verdict / Result - remark
	The information needed to control machinery must be provided in a form that is unambiguous and easily understood. It must not be excessive to the extent of overloading the operator.	The instruction manual is easily understood and not excessive overloading on the operator.
	Visual display units or any other interactive means of communication between the operator and the machine must be easily understood and easy to use.	Pass Light indicators are easily understood and easy to use.
1.7.1.2	Warning devices	-
	Where the health and safety of persons may be endangered by a fault in the operation of unsupervised machinery, the machinery must be equipped in such a way as to give an appropriate acoustic or light signal as a warning.	Pass This situation has been considered.
	Where machinery is equipped with warning devices, these must be unambiguous and easily perceived. The operator must have facilities to check the operation of such warning devices at all times.	Pass The control panel will display the warning messages.
	The requirements of the specific Community Directives concerning colors and safety signal must be complied with	Pass. This requirement is in compliance with.
1.7.2	Warning of residual risks	-
	Where risks remain despite the inherent safe design measures, safeguarding and complementary protective measures adopted, the necessary warnings, including warning devices, must be provided.	Pass The description of residual risks are described in the operation manual and warning labels are attached to the machine inform about residual risks.
1.7.3	Marking of machinery	-
	All machinery must be marked visibly, legibly and indelibly with the following minimum particulars: - the business name and full address of the manufacturer and, where applicable, his authorized representative, - designation of machinery - the CE mark (see Annex III), - designation of series or type, - serial number, if any, - the year of construction, that is the year in which the manufacturing process is completed.	Pass The nameplate on the machinery complies with the requirements of this section.
	It is prohibited to pre-date or post-date the machinery when affixing the CE marking.	Pass
	Furthermore, machinery designed and constructed for use in a potentially explosive atmosphere must be marked accordingly.	N/A The machine is not intended to use in an explosive atmosphere.
	Machinery must also bear full information	Pass

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	relevant to its type and essential for safe use. Such information is subject to the requirements set out in section 1.7.1.	This requirement is in compliance with.
	Where a machine part must be handled during use with lifting equipment, its mass must be indicated legibly, indelibly and unambiguously.	Pass
1.7.4	Instructions	-
	All machinery must be accompanied by instructions in the official Community language or languages of the Member State in which it is placed on the market and/or put into service.	Pass English version of instruction manual provided.
	The instructions accompanying the machinery must be either 'Original instructions' or a 'Translation of the original instructions', in which case the translation must be accompanied by the original instructions.	Pass Original instructions have marked on the English version of manual.
	By way of exception, the maintenance instructions intended for use by specialized personnel mandated by the manufacturer or his authorized representative may be supplied in only one Community language which the specialized personnel understand.	Pass Maintenance instructions provided in the manual.
	The instructions must be drafted in accordance with the principles set out below	Pass This requirement is in compliance with.
1.7.4.1	General principles for the drafting of instructions	-
	(a) The instructions must be drafted in one or more official Community languages. The words 'Original instructions' must appear on the language version(s) verified by the manufacturer or his authorized representative.	Pass. The instruction manual is written in English.
	(b) Where no 'Original instructions' exist in the official language(s) of the country where the machinery is to be used, a translation into that/those language(s) must be provided by the manufacturer or his authorized representative or by the person bringing the machinery into the language area in question. The translations must bear the words 'Translation of the original instructions'.	N/A
	(c) The contents of the instructions must cover not only the intended use of the machinery but also take into account any reasonably foreseeable misuse thereof.	Pass Safety instructions are provided in the user manual.
	(d) In the case of machinery intended for use by Non-professional operators, the wording and layout of the instructions for use must take into account the level of general	Pass Only authorized person could operate the machine and the instructions is easily understood.

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2006/42/EC Annex I , Essential Health and Safety Requirements		
Clause	Requirements	Verdict / Result - remark
	education and acumen that can reasonably be expected from such operators.	
1.7.4.2.	Contents of the instructions	-
	Each instruction manual must contain, where applicable, at least the following information:	Pass
	(a) the business name and full address of the manufacturer and of his authorized representative;	Pass Provided with the business name and full address of the manufacturer.
	(b) the designation of the machinery as marked on the machinery itself, except for the serial number (see section 1.7.3);	Pass The information of designation provided.
	(c) the EC declaration of conformity, or a document setting out the contents of the EC declaration of conformity, showing the particulars of the machinery, not necessarily including the serial number and the signature;	Pass
	(d) a general description of the machinery;	Pass
	(e) the drawings, diagrams, descriptions and explanations necessary for the use, maintenance and repair of the machinery and for checking its correct functioning;	Pass Instructions to understand drawings, diagrams provided.
	(f) a description of the workstation(s) likely to be occupied by operators;	Pass
	(g) a description of the intended use of the machinery;	Pass This requirement is in compliance with.
	(h) warnings concerning ways in which the machinery must not be used that experience has shown might occur;	Pass This requirement is in compliance with.
	(i) assembly, installation and connection instructions, including drawings, diagrams and the means of attachment and the designation of the chassis or installation on which the machinery is to be mounted;	Pass This requirement is in compliance with.
	(j) instructions relating to installation and assembly for reducing noise or vibration;	Pass This requirement is in compliance with.
	(k) instructions for the putting into service and use of the machinery and, if necessary, instructions for the training of operators;	Pass This requirement is in compliance with.
	(l) information about the residual risks that remain despite the inherent safe design measures, safeguarding and complementary protective measures adopted;	Pass This requirement is in compliance with.
	(m) instructions on the protective measures to be taken by the user, including, where appropriate, the personal protective equipment to be provided;	Pass This requirement is in compliance with.
	(n) the essential characteristics of tools which may be fitted to the machinery;	Pass
	(o) the conditions in which the machinery	Pass

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	meets the requirement of stability during use, transportation, assembly, dismantling when out of service, testing or foreseeable breakdowns;	This requirement is in compliance with.
	(p) instructions with a view to ensuring that transport, handling and storage operations can be made safely, giving the mass of the machinery and of its various parts where these are regularly to be transported separately;	Pass This requirement is in compliance with.
	(q) the operating method to be followed in the event of accident or breakdown; if a blockage is likely to occur, the operating method to be followed so as to enable the equipment to be safely unblocked;	Pass This requirement is in compliance with.
	(r) the description of the adjustment and maintenance operations that should be carried out by the user and the preventive maintenance measures that should be observed;	Pass This requirement is in compliance with.
	(s) instructions designed to enable adjustment and maintenance to be carried out safely, including the protective measures that should be taken during these operations;	Pass This requirement is in compliance with.
	(t) the specifications of the spare parts to be used, when these affect the health and safety of operators;	Pass This requirement is in compliance with.
	(u) the following information on airborne noise emissions: - the A-weighted emission sound pressure level at workstations, where this exceeds 70 dB(A); where this level does not exceed 70 dB(A), this fact must be indicated, - the peak C-weighted instantaneous sound pressure value at workstations, where this exceeds 63 Pa (130 dB in relation to 20uPa), - the A-weighted sound power level emitted by the machinery, where the A-weighted emission sound pressure level at workstations exceeds 80dB(A).	Pass Please refer to the sound level test.
	These values must be either those actually measured for the machinery in question or those established on the basis of measurements taken for technically comparable machinery which is representative of the machinery to be produced.	Pass Please refer to the sound level test.
	In the case of very large machinery, instead of the A-weighted sound power level, the A-weighted emission sound pressure levels at specified positions around the machinery may	N/A The machine is a small scale machine.

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2006/42/EC Annex I , Essential Health and Safety Requirements		
Clause	Requirements	Verdict / Result - remark
	be indicated.	
	Where the harmonized standards are not applied, sound levels must be measured using the most appropriate method for the machinery. Whenever sound emission values are indicated the uncertainties surrounding these values must be specified. The operating conditions of the machinery during measurement and the measuring methods used must be described.	Pass Please refer to the sound level test.
	Where the workstation(s) are undefined or cannot be defined, A-weighted sound pressure levels must be measured at a distance of 1 meter from the surface of the machinery and at a height of 1,6 meters from the floor or access platform. The position and value of the maximum sound pressure must be indicated.	Pass Measured at a distance of 1 meter from the surface of the machinery and at a height of 1,6 meters from the floor.
	Where specific Community Directives lay down other requirements for the measurement of sound pressure levels or sound power levels, those Directives must be applied and the corresponding provisions of this section shall not apply;	Pass
	(v) where machinery is likely to emit non-ionizing radiation which may cause harm to persons, in particular persons with active or non-active implantable medical devices, information concerning the radiation emitted for the operator and exposed persons	N/A
1.7.4.3.	Sales literature	-
	Sales literature describing the machinery must not contradict the instructions as regards health and safety aspects. Sales literature describing the performance characteristics of machinery must contain the same information on emissions as is contained in the instructions.	Pass Sales literature contains the same information on emissions as is contained in the instructions.
2.1	Foodstuffs machinery and machinery for cosmetic or pharmaceutical products.	-
2.1.1	General	-
	Machinery intended for use with foodstuffs or with cosmetics or pharmaceutical products must be designed and constructed in such a way as to avoid any risk of infection, sickness or contagion.	Pass
	The following requirements must be observed:	-
	(a) materials in contact with, or intended to come into contact with, foodstuffs or cosmetics or pharmaceutical products must satisfy the conditions set down in the relevant Directives. The machinery must be	Pass Cleanable materials are used to construct the machine.

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	designed and constructed in such a way that these materials can be cleaned before each use. Where this is not possible disposable parts must be used;	
	(b) all surfaces in contact with foodstuffs or cosmetics or pharmaceutical products, other than surfaces of disposable parts, must: <ul style="list-style-type: none"> - be smooth and have neither ridges nor crevices which could harbour organic materials. The same applies to their joinings, - be designed and constructed in such a way as to reduce the projections, edges and recesses of assemblies to a minimum, - be easily cleaned and disinfected, where necessary after removing easily dismantled parts; the inside surfaces must have curves with a radius sufficient to allow thorough cleaning; 	Pass The requirement has been fulfilled with.
	(c) it must be possible for liquids, gases and aerosols deriving from foodstuffs, cosmetics or pharmaceutical products as well as from cleaning, disinfecting and rinsing fluids to be completely discharged from the machinery (if possible, in a 'cleaning' position);	Pass The liquids for cleaning purpose can be completely discharged.
	(d) machinery must be designed and constructed in such a way as to prevent any substances or living creatures, in particular insects, from entering, or any organic matter from accumulating in, areas that cannot be cleaned;	Pass The requirement has been considered when the machine was designed.
	(e) machinery must be designed and constructed in such a way that no ancillary substances hazardous to health, including the lubricants used, can come into contact with foodstuffs, cosmetics or pharmaceutical products. Where necessary, machinery must be designed and constructed in such a way that continuing compliance with this requirement can be checked.	Pass The requirement has been complied with. The lubricant used in the machine is designed for food manufacturing. Related information is provided.
2.1.2	Instructions	-
	The instructions for foodstuffs machinery and machinery for use with cosmetics or pharmaceutical products must indicate recommended products and methods for cleaning, disinfecting and rinsing, not only for easily accessible areas but also for areas to which access is impossible or inadvisable.	Pass
3.	Supplementary essential health and safety	Not applicable

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	requirements to offset hazards due to the mobility of machinery	
4	Supplementary essential health and safety requirements to offset hazards due to lifting operations	Not applicable
5	Supplementary essential health and safety requirements for machinery intended for underground work	Not applicable
6	Supplementary essential health and safety requirements for machinery presenting particular hazards due to the lifting of persons	Not applicable

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Sound Pressure Level Test

1.1 Test Procedure

- 1) Measure and record the ambient noise level.
- 2) Noise level will be measured at a distance of 1 meter from the surface of the machinery and at a height of 1.6 meters from the floor or access platform.

1.2 Test Equipment

Manufacturer	TES	Calibration Date	Nov 23, 2020
Model	TES-1351	Serial No.	050509868

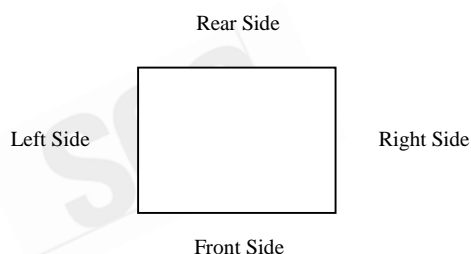
Sound Pressure Level Test Results:

Measured Ambient Sound Level: 57.4 dBA

Test condition	80% of max. spindle speed Power on all movement
Location	Measured sound level (dBA)
Front Side (Control Side)	50.7
Right Side	55.5
Rear Side	52.5
Left Side	57.8

Outlook of test point:

Ambient Sound Level



- End of Report -

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