

風險評估改善報告

MODEL :

Address :

Company :

DATE :

輔導評估 Written By :

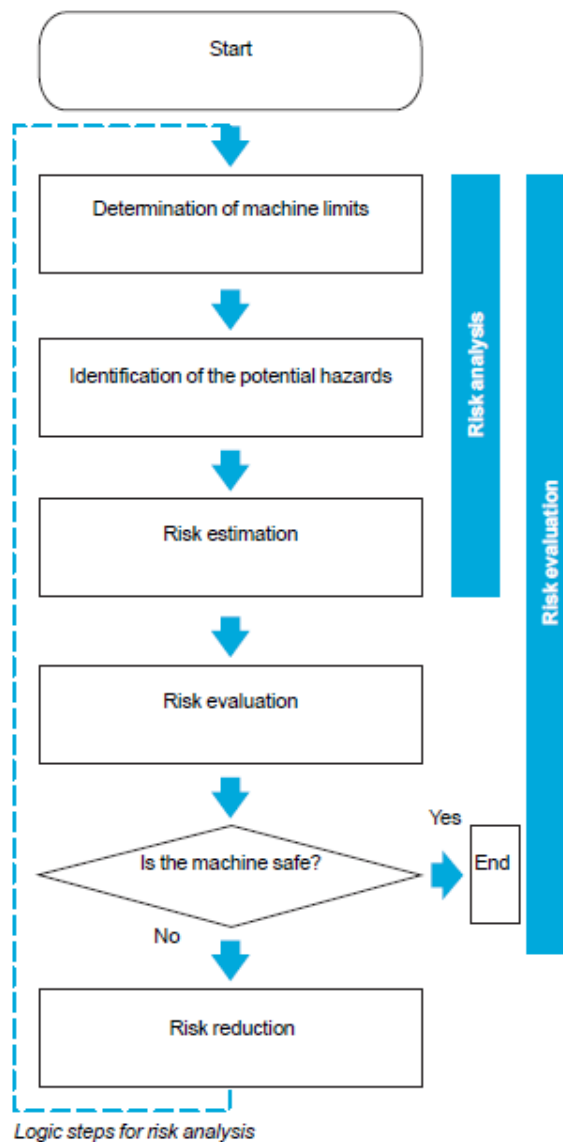
廠商簽名 Confirm By :

MACHINERY DIRECTIVE – CONFORMITY CHECK






Directive 2006/42/EC





風險評估改善報告




EN ISO 12100 Risk Assessment










EN ISO 12100 Risk Assessment

NO.	Hazards source	廠商意見
Mechanical hazards		
1.0	Mechanical hazards due to machine parts or work pieces 由於機台零件或工件引起的機械危險	
1.1	Crushing 擠壓(碎) 	
1.2	Shearing 剪切	
1.3	Cutting or severing 切割或切斷 	
1.4	Entanglement 纏繞危險 	
1.5	Drawing-in or trapping 吸入或捲入危險 	
1.6	Impact 撞擊危險 	

1.7	Stabbing or puncture 刺傷或刺穿危險 	
1.8	Friction or abrasion 摩擦或磨損危險	
1.9	High pressure fluid injection or ejection 高壓流體噴出的危險 	
Electrical hazards		
2.1	Contact with live parts 接觸帶電部件 	
2.2	Contact with parts which have become live under faulty conditions 故障條件下，接觸已帶電部分 	
2.3	Approach to live part under high voltage	

	 在高電壓下靠近帶電部件	
2.4	Electrostatic phenomena 靜電現象	
2.5	Thermal radiation or other phenomena such as projection of molten particles and chemical effects from short-circuits, overloads etc. 熱輻射或其他現象，如飛濺熔融顆粒和短路形成化學作用	
Thermal hazards 熱危險		
3.1	Burns, scalds and other injuries by a possible contact of persons with objects or materials with an extreme high or low temperature, by flames or explosions and also by the radiation of heat sources 燒傷，燙傷和其他傷害可能接觸的人與物體或材料具有極高或極低溫度，被火焰或爆炸，並通過輻射熱源 	
3.2	Damage to health by hot or cold working environment 工作環境過冷或過熱對環境的危害 	
Hazards generated by noise 噪音產生的風險		
4.1	Hearing loss (deafness), other physiological disorders	

	 <p>聽力損失(聾)，其它生理失調</p>	
4.2	<p>Interference with speech communication, acoustic signals, etc.</p> <p>言語溝通和感知信號障礙</p>	
Hazards generated by vibration 震動產生的危害		
5.1	<p>Use of hand-held(是不是 held) machines resulting in a variety of neurological and vascular disorder 使用手持式的機器會導致各式各樣的神經和血管病變</p>	
5.2	<p>Whole body vibration, particular when combined with poor postures 特別是在不良姿勢，全身會震動</p>	
Hazards generated by radiation 輻射所產生的危害		
6.1	<p>Low frequency, radio frequency radiation, microwaves</p> <p>低頻，射頻，微波範圍</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div>	
6.2	<p>Infrared, visible and ultraviolet light</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p>紅外光，可見光和紫外線</p>	
6.3	<p>X and gamma rays X 光和 γ 光</p>	

6.4	Alpha, beta rays, electron or ion beams, neutrons α , β 射線，電子或離子束，中子	
6.5	Lasers 雷射 	
<p align="center">Hazards generated by materials and substances processed or used by the machinery</p> <p align="center">使用機器加工材料和物質所產生的危害</p>		
7.1	<p>Hazards from contact with or inhalation of harmful fluids, gases, mists, fumes and dusts</p> <p>從接觸或吸入有害液體，氣體，霧，煙霧和粉塵導致危害</p> 	
7.2	<p>Fire and explosion hazard 火災和爆炸的危險;</p> 	
7.3	<p>Biological and micro-biological (viral or bacterial) hazards</p> <p>生物和微生物生物（病毒或細菌）的危險。</p> 	
<p align="center">Hazards generated by neglecting ergonomic principles in machine design</p> <p align="center">機械設計時忽略人體工學時所產生得危害</p>		

8.1	Unhealthy postures or excessive effort 不良的姿勢或用力過度	
8.2	Inadequate consideration of hand-arm or foot-leg anatomy 手臂和腳腿結構考慮不充足	
8.3	Neglected use of personal protection equipment 個人防護裝備的使用被忽視	
8.4	Inadequate local lighting 局部照明不足	
8.5	Mental overload or underload, stress 金屬過載或應力過載	
8.6	Human error, human behavior 人為疏失，人類行為	
8.7	Inadequate design, location or identification of manual controls 位置或手動控制識別設計不足	
Combination of hazards		
9	Combination of hazards 危害的組合	
Unexpected start-up, unexpected overrun/over-speed 意外啟動，意外過速/過速		
10.1	Failure/disorder of the control system 故障/障礙控制系統	
10.2	Restoration of energy on supply after an interruption 電源供應中斷後的復原	

10.3	External influences on electrical equipment 電氣設備的外部影響	
10.4	Other external influences (gravity, wind, etc.) 其他外部影響（重力，風力等）	
10.5	Errors in the software 軟體錯誤	
10.6	Error made by the operator (due to mismatch of machinery with human characteristics and abilities, see 8.6) 操作錯誤(由於操作人員的特質和能力不適合，見 8.6)	
Impossibility of stopping the machine in the best possible conditions 在最佳條件下，無法正常停機		
11	Impossibility of stopping the machine in the best possible conditions 在最佳條件下，無法正常停機	
12	Variations in the rotational speed of tools 工具旋轉速度的變化	
Failure of the power supply 電源故障		
13	Failure of the power supply 電源故障	
Failure of the control circuit 控制電路故障		
14	Failure of the control circuit 控制電路故障	
Errors of fitting 安置錯誤		
15	Errors of fitting 安置錯誤	

Break-up during operation 操作過程中破損斷裂		
16	Break-up during operation 操作過程中破損 斷裂	
Falling or ejected objects or fluids 物體掉落 或液體噴出		
17	Falling or ejected objects or fluids 物體掉落 或液體噴出	
Loss of stability / overturning of machinery 穩定性喪失/機台破壞		
18	Loss of stability / overturning of machinery 穩定性喪失/機台破壞	
Slip, trip and fall of persons (related to machinery) 滑倒，絆倒及跌倒的人（與機械有關）		
19	Slip, trip and fall of persons(related to machinery) 滑倒，絆倒及掉落的人（與機械有關） 