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Technical data and methods of the machinery: Machinery 01

Project 2018	Machinery 01	Year: 2018
Project:	 taken into consideration are the same as the tree method (gravity, frequency, probability, and avoidability) and each of them contains different levels to which correspond to different numerical weights. The method is applied as follows: 1. to estabilish the numerical weights for the severity, the frequency, the Machinery: 	
	The hybrid tool combines two of the methods described in the ISO/TR 14121-2. They are usually risk charts (qualitative tool) combined with matrices or scoring systems (quantitative method). The risk factors to be	
Risk assessment EN ISO 12100 Standard ISO/TR 14121-2	Safety of machinery - General principles for design - Risk assessment and risk reduction 1. State of the machine Operating condition 2. Hazardous situation 3. Hazardous event 4. Hazard zone 5. Initial risk evaluation 6. Inherently safe design measures 7. Safeguarding 8. Complementary protective measures 9. Information for use 10. Safety signs 11. Final risk evaluation 12. Residual risk 13. Technical standards applied 14. Notes 15. Related EHSR (Annex 1 Machinery Directive) Safety of machinery - Risk assessment - Part 2: Pratical guidance and examples of methods The hybrid tool is described in section 6.5 of ISO/TR 14121-2. The hybrid tool combines two of the methods described in the ISO/TR	
Risk assessment		
CE Marking Process	 Internal check for machinery production as Annex VIII. EC Type examination as Annex IX. Full quality assurance as Annex X. 	
Certification Procedure	The machinery compliant Appay IV	Teo
Name: Product: Model: Serial: Revision: Year of construction: Directive: Manufacturer: Intended use: Description:	Machinery 01 M Machinery Model 2018 Serue 01/2018 00 - 2018 Dir. 2006/42/EC (EN) Certifico Srl - IT Intended purpose The machine in question is a hydraulic press brake. The reference technical standards are: UNI EN ISO 16092-3: 2018 Safety of machine tools - Presses - Part 3: Safety requirements for hydraulic presses and UNI EN ISO 16092-1: 2018.	chnical Data and Methods



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probability and the avoidability of the damage (see below the tables with the relative numerical weights);

2. add the three frequency, probability, and avoidance weights to determine

the probability class "Cl" (Class) (Cl = Fr + Pr + Av);

3. insert the Gravity and Class dimensions into a weighting matrix;

4. calculate the risk by finding the intersection point of the row (Cl) with the values (C_{2}) of the metric

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column (Se) of the matrix.

Consequences / Severity		Class CI (Fr+Pr+Av)			Frequency		Probability	Av	Avoidance	
(Se)	4	5-7	8-10	11-13	14-15	(Fr)		(Pr)		(Av)
Death, losing an eye or arm	4					<= 1h	5	Very high	5	
Permanent, losing fingers	3					> 1h to <= 24h	5	Likely	4	
Reversible, medical attention	2	?				> 24 to <= 2w	4	Possible	3 Impos	sible 5
Reversible, first aid	1					> 2w to <= 1y	3	Rarely	2 Possib	ile 3
						> 1y	2	Negligible	1 Likely	t

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