


**ENGLISH TRANSLATION****RISK ASSESSMENT (RISK ESTIMATION AND RISK EVALUATION) AND  
RISK REDUCTION****MACHINE: FFC BASE MACHINE****P/N: 0-528000-7**

Doc.nBr: FFC-VR1B- ENG.DOC	Rev.: 02	Date: 22/12/09	Issued : DI LIDDO MAURO	Approved: 
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**TABLE OF CONTENTS**

## INTRODUCTION

## A - GENERAL INFORMATION

## B – TOXICOLOGICAL HAZARDS

## C - IDENTIFICATION OF POSSIBLE HAZARDS

## D - RISK REDUCTION

## E - NEWLY ADDED HAZARDS

## F - ASSESSMENT OF ALL IDENTIFIED HAZARDS


## G - CONCLUSIONS

## H – RISK WEIGHT

**INTRODUCTION*****MANAGEMENT RESPONSIBILITIES:***

The Management has specified as follows:

- the responsibility for carrying out the risk analysis is assigned to the technical office, which may seek advice from competent, independent companies/personnel.
- The responsibility for issuing the Risk Analysis document is assigned to the Technical Management.
- The risk analysis must be reviewed every time changes are made to the machine or new legislation, technical standards which could affect the safety of the product are issued, as well as in the event of an accident.
- Periodically review the feedback given by people who work on the field to ensure on-going suitability and effectiveness of risk management.

Doc.nBr:  FFC-VR1B- ENG.DOC	Rev.: 02	Date: 22/12/09	Issued : DI LIDDO MAURO	Approved: 
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**A –1.0 GENERAL INFORMATION***A 1.1 - FULL DESCRIPTION AND IDENTIFICATION OF THE MACHINE.*

CRIMPING MACHINE FOR INTERCHANGEABLE MINI-APPLICATORS TO CRIMP PIERCING CONTACTS ON FLEXIBLE FLAT CABLES (FFC CABLES) FOR ELECTRONICS AND AUTOMOTIVE APPLICATIONS.

**Machine Classification****Protection from electrical hazards, direct and indirect contacts**Class I ☒Class II ☐Internal electrical power supply ☐Type B ☒Type BF ☐Type CF ☐**Protection from penetration**


IP 20

**Safety in potentially explosive environments**Unsuitable ☒*A 1.2 - IDENTIFICATION OF THE PERSON/DEPARTMENT RESPONSIBLE FOR RISK ANALYSIS.  
– TECHNICAL DEPARTMENT MANAGER**A 1.3 – AUDIT INTERVAL: YEARLY***A 2.0- IDENTIFICATION OF QUALITY AND QUANTITY FEATURES***A 2.1 - USE OF THE MACHINE**A 2.1.1 - **Intended machine user:** Unskilled labourer - First level operator*

*A 2.1.2 - **Qualification required for the user:** The user must be trained on how to correctly use the machine and on the hazards caused by damages to and removal of safety devices.*

**General Information**

Name	FFC BASE MACHINE
Intended use	CRIMPING MACHINE FOR FFC CABLE CONTACTS
Intended operating environment	LABORATORY

Doc.nBr:  FFC-VR1B- ENG.DOC	Rev.: 02	Date: 22/12/09	Issued : DI LIDDO MAURO	Approved: 
--------------------------------------	-------------	-------------------	----------------------------	--

A 2.1.5 - Ambient conditions:

- relative humidity:  $30 \div 75\%$
- temperature:  $+ 10 \div +35^{\circ} \text{C}$
- atmospheric pressure:  $700 \div 1060 \text{ hPa}$

### A 2.3 - MATERIALS AND/OR COMPONENTS BUILT IN OR USED IN THE MACHINE

A2.3.1 - List of critical materials/components (the following materials/components must be approved):

SAFETY DEVICES AND ELECTRICAL AND ELECTRONIC COMPONENTS (SEE TECHNICAL FILE).


### A 2.4 - ENVIRONMENTAL IMPACT ON THE MACHINE

A 2.4.1 - Possible environmental impact which may affect safety.

	$t_a$ ( $^{\circ}\text{C}$ )	RH%	P (hPa)
Operating environment	$10 \div 35$	$30 \div 75\%$	$700 \div 1060$
Transport environment	$-20 \div 70$	$10 \div 100\%$	$500 \div 1060$
Storage environment	$-20 \div 70$	$10 \div 100\%$	$500 \div 1060$

Power supply				
ELECTRICAL	230 VAC $\pm 10\%$	50/60 HZ	2.5 A	600 VA
PNEUMATIC	6 BAR	5 L/MIN		

Types of substances discharged
NONE

Doc.nBr: FFC-VR1B- ENG.DOC	Rev.: 02	Date: 22/12/09	Issued : DI LIDDO MAURO	Approved: 
----------------------------------	-------------	-------------------	----------------------------	--

*A 2.5 – MACHINE IMPACT ON THE ENVIRONMENT*

- ☒ INTERFERENCES TO THE POWER MAINS      ☐ HEATING  
☐ DISCHARGE OF TOXIC SUBSTANCES      ☒ EMC INTERFERENCE GENERATOR

*A 2.6 – CONSUMABLES AND/OR ESSENTIAL ACCESSORIES*

Not applicable

*A 2.7 – MAINTENANCE AND/OR CALIBRATION**A 2.7.1 - Parts subject to maintenance:* As shown in the user manual.*A 2.7.2 - Maintenance interval and person in charge:*

MAINTENANCE TO BE CARRIED OUT: See manual, by:

- ☐ USER/OPERATOR      ☒ MAINTENANCE ENGINEER

*A 2.7.3 - How to monitor accuracy and precision.*

- ☒ PERIODIC CALIBRATION to be carried out by:  
☐ OPERATOR      ☒ SKILLED ENGINEER  
☐ SELF-CHECK      ☒ MECHANICAL MAINTENANCE ENGINEER


*A 2.8 - SOFTWARE**A 2.8.1 - Software installation, change or replacement*

- ☐ USER/OPERATOR      ☒ SKILLED ENGINEER

*A 2.8.2 - Software interaction with equipment safety*

- ☐ HIGH      ☐ AVERAGE      ☐ LOW      ☒ NONE

*A 2.9 - LIMITED LIFE:* N.A*A.2.9.1 – Storage time reduction:* N.A*A 2.10- DELAYED EFFECTS AND/OR DUE TO LONG PERIODS OF USE**A 2.10.1 - Ergonomic effects:* N.A*A 2.10.2 - Cumulative effects:* N.A*A 2.11 - MECHANICAL FORCES APPLIED TO THE MACHINE:* N.A*A.2.11.1 - Details of parts and associated mechanical forces**A.2.11.2 - Monitoring mechanical forces:* N.A

Doc.nBr:  FFC-VR1B- ENG.DOC	Rev.: 02	Date: 22/12/09	Issued : DI LIDDO MAURO	Approved: 
--------------------------------------	-------------	-------------------	----------------------------	--

*A 2.12 - MACHINE LIFE**A.2.12.1 - Factors affecting machine life*

☒ AGEING      ☐ ENVIRONMENT      ☐ .....

*A. 2.12.2 - Maximum life and settings to be monitored:* N.A

*A 2.12. – SAFE DISACTIVATION AND DISPOSAL**A.2.12.1 - Scrappage*

☒ DISPOSAL OF SCRAPPAGE      ☐ DISPOSAL OF TOXIC MATERIAL  
☐ DISPOSAL OF HAZARDOUS MATERIAL      ☐ ANY RECYCLABLE MATERIAL  
☐ DISPOSAL OF LIQUIDS

*A 2.12.2 - Instructions for scrapping the machine.*

The user must comply with current local legislation. Our machine does not generate hazardous waste or waste requiring special treatment.

*A 2.13. - TRAINING AND INSTALLATION:**A 2.13.1 - Training required for the user:*

Having carefully read the User Manual

Staff involved: Operator – Mechanical maintenance engineer - Electrical maintenance engineer - Safety officer

*A 2.13.2 - Installation*

*A 2.13.3 - Qualification required for machine installer:* Mechanical-electrical maintenance engineer

*A 2.13.4 - Training required for machine installer:* Reading and understanding the instructions provided in the User Manual

*A 2.13.5- Installation supervised by the manufacturer:* If required

*A 2.13.6 - Final testing/start-up (list of tests to be carried out):* Not required


*A 2.14.0– USER INTERFACE**A 2.14.0.1 – Critical human intervention*

☒ ACCESS TO MACHINE IS RESERVED TO AUTHORISED PEOPLE BY MEANS OF:  
☐ KEY-OPERATED SWITCH      ☒ PASSWORD (only for machine settings)  
☐ BIOMETRIC RECOGNITION      ☒ AVAILABILITY OF SIGNAGE  
☐ ALARM NOISE LEVEL  
☒ NORMALISED COLOUR CODING  
☐ EXTERNAL DEVICES CONTROLLED FROM THE MAIN MENU:

*A 2.14.1 – CONNECTIONS AND ACCESSORIES*

☒ POLARISED CONNECTIONS      ☒ LOCKED CONNECTIONS  
☒ FORCED CONNECTION INSERTION  
☒ DIFFERENT CONNECTORS FOR TYPE OF CONNECTION

*A 2.14.2– CONTROL INTERFACE:* N.A

Doc.nBr:  FFC-VR1B- ENG.DOC	Rev.: 02	Date: 22/12/09	Issued : DI LIDDO MAURO	Approved: 
--------------------------------------	-------------	-------------------	----------------------------	--

## A 2.14.3– DATA DISPLAY


- ☒ IN THE USER LANGUAGE
- ☒ ILLUMINATED DISPLAY
- ☐ TILTABLE DISPLAY
- ☒ CLARITY OF INFORMATION

## A 2.14.4– MENU

- ☒ IN THE USER LANGUAGE
- ☒ SELECTION CONTROL
- ☒ TYPE OF NAVIGATION: *SEQUENTIAL*

## A 2.15 - MACHINE TRANSPORT FEATURES

- ☒ FIXED
- ☐ MOVING
- ☐ PORTABLE:
  - ☐ WITH HANDLE
  - ☐ WITH WHEELS
  - ☐ ERGONOMICAL FEATURES FOR TRANSPORT
  - ☐ WHEELS WITH BRAKES

Doc.nBr:  FFC-VR1B- ENG.DOC	Rev.: 02	Date: 22/12/09	Issued : DI LIDDO MAURO	Approved: 
--------------------------------------	-------------	-------------------	----------------------------	--

☐ ANTI-ROLLOVER CARRIAG

**B – TOXICOLOGICAL HAZARDS : N.A**


**C - IDENTIFICATION OF POSSIBLE HAZARDS**

Key:

NA = Not Applicable

U.M. = User Manual


REF. NO.	HAZARD	NORMAL CONDITIONS	SINGLE FAULT CONDITION	NOTES
<b>C1</b>	<b>ENERGY</b>			
C1.1	Electricity	YES	YES	
C1.2	Heat	NO	YES	FAULTY MOTOR
C1.3	Ionising radiations	N.A		
C1.4	Non-ionising radiations	N.A		
C1.5	Visible radiations	N.A		
C1.6	Electromagnetic fields	YES	YES	
C1.7	Moving parts	N.A		
C1.8	Suspended weights	N.A		
C1.9	Patient's support machine fault	N.A		
C1.10	Pressure (container breakage)	N.A		
C1.11	Sound pressure	NO	NO	
C1.12	Vibration	NO	NO	
C1.13	Magnetic field (such as MRI)	NO	NO	
<b>C2</b>	<b>BIOLOGICAL</b>			
C2.1	Biological charge	N.A		
C2.2	Biological contamination	N.A		
C2.3	Biological incompatibility	N.A		
C2.4	Improper emission (substance/energy)	N.A		
C2.5	Toxicity	N.A		
C2.6	Infection (indirect)	N.A		
C2.7	Pirogenicity	N.A		
C2.8	Incapability to maintain safe hygiene levels	N.A		
C2.9	Degradation	N.A		
<b>C3</b>	<b>ENVIRONMENTAL HAZARDS AND CONTRIBUTING FACTORS</b>			
C3.1	Electromagnetic fields	YES	YES	
C3.2	Predisposition to electromagnetic interference	YES	YES	
C3.3	Emissions of electromagnetic interference	YES	YES	
C3.4	Unsuitable power supply	YES	YES	
C3.5	Unsuitable coolant source	NA		
C3.6	Storage or operation outside	YES		

Doc.nBr:  FFC-VR1B- ENG.DOC	Rev.: 02	Date: 22/12/09	Issued : DI LIDDO MAURO	Approved: 
--------------------------------------	-------------	-------------------	----------------------------	--



REF. NO.	HAZARD	NORMAL CONDITIONS	SINGLE FAULT CONDITION	NOTES
	required ambient conditions			
C3.7	Incompatibility with other equipment to be used	NA		
C3.8	Accidental mechanical damage	NO	NO	
C3.9	Contamination caused by scrappage and/or machine disposal	NA		
<b>C4</b>	<b>HAZARDS CONNECTED WITH MACHINE USE</b>			
C4.1	Unsuitable labelling	NO		
C4.2	Inadequate user instructions	NO		
C4.3	Inadequate accessory specifications	NA		
C4.4	Inadequate specifications for preliminary checks	NO		
C4.5	Operating instructions excessively complex	NO		
C4.6	Unavailable or separate operating instructions	NO		
C4.7	Use by unskilled or untrained staff	YES		
C4.8	Reasonably predictable incorrect use	YES		
C4.9	Exposed sharp tips or corners etc.	YES	YES	
<b>C5</b>	<b>HAZARDS CAUSED BY FAILURE TO OPERATE, MISSED MAINTENANCE AND OBSOLESCENCE</b>			
C5.1	Unsuitable or missing maintenance specifications, including inadequate specifications for operating checks after a repair operation.	NO	NO	
C5.2	Lack of adequate estimate of machine life.	NO	NO	
C5.3	Loss of mechanical integrity	NO	NO	
C5.4	Unsuitable packaging (machine deterioration)	NO	NO	
C5.5	Improper reuse	YES		

**D - RISK REDUCTION**

Doc.nBr:  FFC-VR1B- ENG.DOC	Rev.: 02	Date: 22/12/09	Issued : DI LIDDO MAURO	Approved: 
--------------------------------------	-------------	-------------------	----------------------------	--

Describe the means used to reduce any risk regarded as unacceptable to a minimum level in all stages of the process:

*D1 - Direct safety devices (design)*

*D2 - Indirect safety devices (protection). Examples of protection are:*

☐ REDUCED ACCESS (such as due to radiation hazard) -

☒ PROTECTION FROM HAZARD (such as by means of a protective cover)

*D3 - Redefinition of intended use*

#### **E - NEWLY ADDED HAZARDS**

Establish and, if required, describe if the risk reduction procedure has introduced new hazards. N.A.

#### **F - ASSESSMENT OF ALL IDENTIFIED HAZARDS**

*F1 - Risk assessment*

Risks for all identified hazards


☒ ESTIMATED

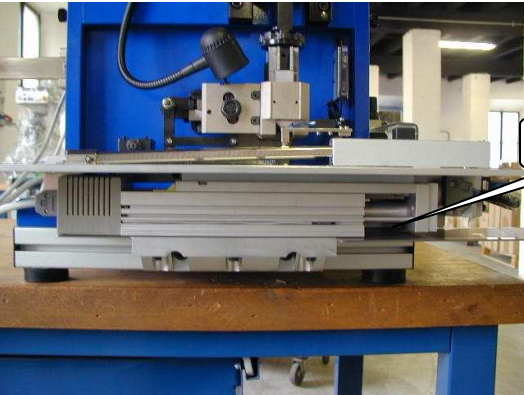
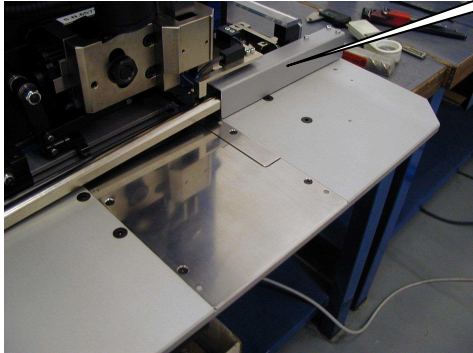
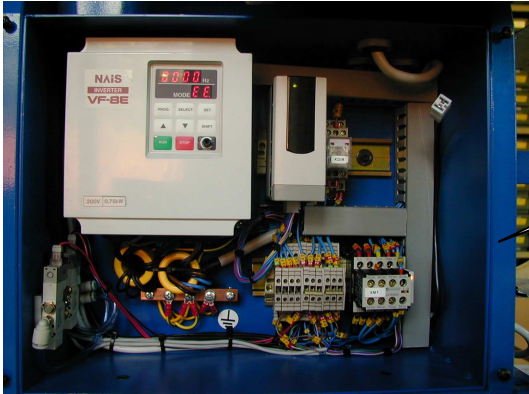
☐ NOT ESTIMATED


#### **G - CONCLUSIONS**

☒ ALL POTENTIAL RISKS RELATED TO THE PRESCRIBED USE OF THE MACHINE HAVE BEEN ESTIMATED OR REMOVED.

☐ ALL POTENTIAL RISKS RELATED TO THE PRESCRIBED USE OF THE MACHINE HAVE BEEN ESTIMATED AND THE RESIDUAL RISKS, LISTED BELOW, ASSOCIATED TO IDENTIFIED HAZARDS, ARE ACCEPTABLE.

Doc.nBr:  FFC-VR1B- ENG.DOC	Rev.: 02	Date: 22/12/09	Issued : DI LIDDO MAURO	Approved: 
--------------------------------------	-------------	-------------------	----------------------------	--



Doc.nr: FFC-VR1B- ENG.DOC	Rev.: 01	Date:: 30/12/2009	Issued: DI LIDDO MAURO	Approved: 
---------------------------------	-------------	----------------------	---------------------------	--


**H –**

These are associated with a severity rate and a probability rate, as shown in the following table:

<b>Probability Severity</b>	<b>P1 (rare)</b>	<b>P2 (infrequent)</b>	<b>P3 (frequent)</b>	<b>P4 (unavoidable)</b>
<b>G1</b> (irrelevant)	A	A	A	ALARP
<b>S2</b> (slight)	A	A	ALARP	ALARP
<b>S3</b> (slight)	A	ALARP	I	I
<b>S4</b> (fatal)	ALARP	ALARP	I	I

the combination of both lead to the acceptability level, more specifically:


<b>A</b> = acceptable risk
<b>ALARP</b> = as low as reasonably practicable risk reduction
<b>U</b> = unacceptable risk
<b>Irrelevant</b> = Harm to people, things and animals which does not lead to injuries or damages
<b>Slight</b> = Harm to people, things or animals which has caused injuries/bruising likely to heal in a short period of time or slight damage
<b>Serious</b> = Harm to people, things or animals which caused injuries and serious permanent harm or damage
<b>Fatal</b> = Death of a person or an animal or irreparable/catastrophic damage to things

Doc.nr: FFC-VR1B- ENG.DOC	Rev.: 01	Date:. 30/12/2009	Issued: DI LIDDO MAURO	Approved: 
---------------------------------	-------------	----------------------	---------------------------	--

	<b>RISK ASSESSMENT</b>	Page 13 of 18
--	------------------------	---------------


The technical solutions selected to reduce the risk must then be assessed, by making sure this operation has not introduced new hazards.  
The investigation, i.e. continuing the risk assessment procedure, is carried out in compliance with applicable standards.  
This leads to the following table:

					Risk reduction				
Nature or risk	Risk details	P (Probability)	S (Severity)	P x S = A (Acceptability)	Solution	P Probability	S Severity	P x S = A (Acceptability)	Residual risk
<b>ENERGY RELATED HAZARDS</b>									
Electricity (Ref.1 –2)	Electrocution by direct and indirect contact	2	4	ALARP	COMPLIANCE WITH STANDARD CEI EN60204-1 – FIXED GUARDS-LABELS	1	1	A	A
Heat	Not applicable	-	-	-		-	-	-	-
Ionising radiations	Not applicable	-	-	-		-	-	-	-
Non-ionising radiations (visible)	Not applicable	-	-	-		-	-	-	-
Electromagnetic fields	Emissions radiated by the machine	3	1	A	COMPLIANCE WITH STANDARDS EN5008-1 EN5008-2	1	1	A	A
Moving parts	Not applicable	-	-	-		-	-	-	-
Suspended weights	Not applicable	-	-	-		-	-	-	-
Springs	Not applicable	-	-	-		-	-	-	-

Doc.nr: FFC-VR1B- ENG.DOC	Rev.: 01	Date:. 30/12/2009	Issued: DI LIDDO MAURO	Approved: 
---------------------------------	-------------	----------------------	---------------------------	--

	<b>RISK ASSESSMENT</b>	Page 14 of 18
--	------------------------	---------------

					Risk reduction				
Nature or risk	Risk details	P (Probability)	S (Severity)	P x S = A (Acceptability)	Solution	P Probability	S Severity	P x S = A (Acceptability)	Residual risk
Failure of a safety device	Injury to people	2	3	ALARP	Periodic inspections, staff training, notes in the U.M.	1	3	A	-
Removal of a safety device	Injury to people	2	3	ALARP	Periodic checks, staff training, notes in the U.M.	1	3	A	-
Removal of a safety switch	Injury to people	2	3	ALARP	Periodic inspections, staff training, notes in the U.M.	1	3	A	-
Pressure	Not applicable	-	-	-	-	-	-	-	-
Sound pressure	Not applicable	-	-	-	-	-	-	-	-
Vibrations	Not applicable	-	-	-	-	-	-	-	-
Magnetic fields	Electromagnetic fields generated by the machine	2	1	A	COMPLIANCE WITH STANDARD EN5008-1 EN5008-2	1	1	A	-
<b>MECHANICAL HAZARDS</b>									
Rotating parts (Ref.3)	Injury to people	3	2	ALARP	Moving guard	1	1	A	-
Moving parts (Ref.4)	Injury to people	3	2	ALARP	Moving guard	1	1	A	-
Cable blocking pneumatic clamp (Ref.5)	Slight bruising to fingers	3	1	A	Fixed guard	1	1	A	-
Electrical slide (Ref.6)	Slight bruising to fingers	1	2	A	Fixed guard	1	1	A	-
Crimping blades (Ref.7)	Bruising and wounding of tips of fingers.	2	2	ALARP	Moving guard	1	1	A	-


Doc.nr: FFC-VR1B- ENG.DOC	Rev.: 01	Date: 30/12/2009	Issued: DI LIDDO MAURO	Approved: 
---------------------------------	-------------	------------------	---------------------------	--

	<b>RISK ASSESSMENT</b>	Page 15 of 18
--	------------------------	---------------

					Risk reduction				
Nature or risk	Risk details	P (Probability)	S (Severity)	P x S = A (Acceptability)	Solution	P Probability	S Severity	P x S = A (Acceptability)	Residual risk
Carrier cutting unit (Ref.8)	Bruising and wounding of tips of fingers.	2	2	ALARP	Fixed guard	1	1	A	-

					Risk reduction				
Nature or risk	Risk details	P (Probability)	S (Severity)	P x S = A (Acceptability)	Solution	P Probability	S Severity	P x S = A (Acceptability)	Residual risk


ENVIRONMENTAL AND BIOLOGICAL HAZARDS									
Electromagnetic interferences	Likelihood of emissions produced by other equipment	2	1	A	COMPLIANCE WITH STANDARD EN5008-1 EN5008-2	1	1	A	A
Unsuitable power supply	Not applicable	-	-	-		-	-	-	-
Probability of operation outside intended ambient conditions	Not applicable	-	-	-		-	-	-	-
Incompatibility with other machines/equipment	Not applicable	-	-	-		-	-	-	-
Biological hazards	Not applicable	-	-	-		-	-	-	-

Doc.nr: FFC-VR1B- ENG.DOC	Rev.: 01	Date.: 30/12/2009	Issued: DI LIDDO MAURO	Approved: 
---------------------------------	-------------	----------------------	---------------------------	--

	<b>RISK ASSESSMENT</b>	Page 16 of 18
--	------------------------	---------------

					Risk reduction				
Nature or risk	Risk details	P (Probability)	S (Severity)	P x S = A (Acceptability)	Solution	P Probability	S Severity	P x S = A (Acceptability)	Residual risk
<b>ERGONOMIC HAZARDS</b>									
Exposed sharp corners	Injury to staff	3	2	<b>ALARP</b>	Notes on drawings and care of parts	1	1	<b>A</b>	<b>A</b>
Instability of machine	Rollover of machine	2	3	<b>ALARP</b>	notes in the U.M. - install the machine on a stable bench	1	3	<b>A</b>	<b>A</b>
Abrasive surfaces	Not applicable	-	-	-		-	-	-	-
Hot areas of the machine	Not applicable	-	-	-		-	-	-	-
Rotation of parts	Not applicable	-	-	-		-	-	-	-
Ejected parts	Not applicable	-	-	-		-	-	-	-

					Risk reduction				
Nature or risk	Risk details	P (Probability)	S (Severity)	P x S = A (Acceptability)	Solution	P Probability	S Severity	P x S = A (Acceptability)	Residual risk
<b>HAZARDS CONNECTED WITH MACHINE USE</b>									
Unsuitable labelling	All required information is missing	1	1	<b>A</b>	Inspection during the final testing stage	1	1	<b>A</b>	<b>A</b>
Unsuitable operating instructions	All required information is missing	1	1	<b>A</b>	Check the U.M.	1	1	<b>A</b>	<b>A</b>
Inadequate accessory specifications	Not applicable	-	-	-		-	-	-	-
Operating instructions excessively complex	Wrong installation and maintenance, not	1	1	<b>A</b>	Check the U.M.	1	1	<b>A</b>	<b>A</b>
Use by	Incorrect use of the	1	1	<b>A</b>	Cautions on U.M.	1	1	<b>A</b>	<b>A</b>


Doc.nr: FFC-VR1B- ENG.DOC	Rev.: 01	Date:: 30/12/2009	Issued: DI LIDDO MAURO	Approved: 
---------------------------------	-------------	----------------------	---------------------------	--



	<b>RISK ASSESSMENT</b>	Page 17 of 18
--	------------------------	---------------

					Risk reduction				
Nature or risk	Risk details	P (Probability)	S (Severity)	P x S = A (Acceptability)	Solution	P Probability	S Severity	P x S = A (Acceptability)	Residual risk
unsuitable/inexperienced staff	machine and its accessories								
Reasonable predictable incorrect use	Not applicable	-	-	-		-	-	-	A
Incorrect measurement and other metrology issues	Not applicable	-	-	-	-	-	-	-	-
Incorrect transfer of data	Not applicable	-	-	-	-	-	-	-	-
Incorrectly presented data	Not applicable	-	-	-	-	-	-	-	-
<b>HAZARDS CAUSED BY FUNCTIONAL FAULTS, MAINTENANCE AND AGEING</b>									
Details of inadequate performance for intended use	Not applicable	-	-	-	-	-	-	-	-
Missing / unsuitable maintenance specifications, including inadequate specifications on functional inspections after maintenance operations	All required information is missing	1	1	A	Notes on the U.M.	1	1	A	A
Inadequate maintenance	Inefficient safety devices	1	3	A	Cautions on U.M.	1	1	A	-

## 6. ANY RESIDUAL RISKS


Doc.nr: FFC-VR1B- ENG.DOC	Rev.: 01	Date: 30/12/2009	Issued: DI LIDDO MAURO	Approved: 
---------------------------------	-------------	------------------	---------------------------	--

	<b>RISK ASSESSMENT</b>	Page 18 of 18
--	------------------------	---------------

By issuing this document, the Management of COMTEC S.R.L declares to have taken into account and identified all hazards which could reasonably occur and associated risks have been assessed and reduced to an acceptable level.  
The overall residual risk must be regarded as totally acceptable.

## 7. IS A NEW RISK ASSESSMENT REQUIRED?

No, unless new machine designs or applications are introduced.

Doc.nr: FFC-VR1B- ENG.DOC	Rev.: 01	Date:. 30/12/2009	Issued: DI LIDDO MAURO	Approved: 
---------------------------------	-------------	----------------------	---------------------------	--