

ISO/TR 14121-2:2007(E)

Table B.2 — Risk assessment (risk estimation and risk evaluation) and risk reduction

Risk assessment (risk estimation and risk evaluation) and risk reduction																
Machine		Vertical spindle moulding machine				Analyst		<Name>								
Sources		Specifications, preliminary design				Current version		2.0								
Extent		Use phase: setting and operation				Date		July 2007								
Method		Risk graph				Page		1								
Ref. no.	Risk estimation (initial risk)					Risk reduction Protective measures	Risk estimation (after risk reduction)					Further risk reduction required	Ref .no.			
	S	F	O	A	RI		S	F	O	A	RI					
1	1	1	2	2	1	Instructions to use protective gloves and to any tools in boxes instead of by hand.	1	1	2	1	1	No	1			
2	1	1	3	2	2	Providing an integral spindle locking system (see Figure B.5) and instructions foruse.	1	1	1	2	1	No	2			
3	1	1	3	2	2	Providing suitable hand tool(s) and instructions for use.	1	1	1	2	1	No	3			
4	2	1	2	2	3	Electrical equipment in accordance with IEC 60204-1 (e.g., protection against earthfaults, interlocking of brake release function with the start function) (see Figure B.6)and instructions to use recommending isolating the machine from the power supply(by means of the main switch).	2	1	1	2	2	No	4			
5	1	1	2	2	1	See protective measures for ref. no. 1.	1	1	2	1	1	No	5			
6	2	1	2	2	3	Electrical equipment in accordance with IEC 60204-1 (e.g. protection against earthfaults, interlocking of brake release function with the start function (see Figure B.6).	2	1	1	2	2	No	6			
7	2	1	2	2	3	Fitting the door with an interlocking device in accordance with ISO 14119 andcontrol circuit of category 1 in accordance with ISO 13849-1 and ISO 13849-2, withperiodical inspections.	2	1	1	2	2	No	7			
8	2	1	2	2	3	See protective measures for ref. nos. 4 and 7.	2	1	1	2	2	No	8			
9	2	1	2	2	3	Electrical equipment in accordance with IEC 60204-1 (protective bonding ofexposed conductive parts of the machine and use of residual current sensing deviceby the user) (see Figure B.6).	1	1	1	1	2	No	9			

The abbreviations used in Table B.2 are as follows:

S severity

S1 slight

S2 serious

F exposure

F1 seldom

F2 frequent

O probability of occurrence of the hazardous event

O1 very low

O2 feasible

O3 high

A possibility of avoidance

A1 possible

A2 impossible

RI risk index: from 1 (min.) to 6 (max.)