



Hazard Identification, Risk Assessment and Risk Control Register (HIRA)

Milburns Ship

Main Activity	Activity	Risk Activity	Event	Hazard	Potential Control	Severity	Likelihood	Risk	Residual Risk	Control Measure	Addressed Controls																																															
											Operational Control	MSD No.	MSD No.	MSD No.	MSD No.																																											
Component material handling	Material handling from machine to machine in cell.	Maximum shifting from the loading area to cell by using trolley.	Component may fall on leg	01	Injury to leg	3	2	6	Safety shoes provided	✓																																																
				02	Injury to leg	3	2	6	Safety shoes provided	✓																																																
				Machining operation 10	Component loading on fixture and load on future	While unloading the component may fall on leg	03	Back pain	3	2	6	Lower rim of trolley should not be below L5/S1	✓																																													
							04	Injury to fingers	3	1	3	Two hand switch buttons provided for clamping.	✓																																													
							Machining operation 20	Clamping of component	While unloading the component may be towards operator	05	Injury to eyes and face	3	1	3	Machine cycle interlocked with door closing.	✓																																										
										06	Injury to fingers	3	2	6	Safety hand gloves provided	✓																																										
										Machining operation 30	Clamping of component	While unloading the component may be towards operator	07	Injury to leg	3	2	6	Safety shoes provided	✓																																							
													08	Injury to fingers	3	1	3	Two hand switch buttons provided for clamping.	✓																																							
													Machining operation 40	Clamping of component	While unloading the component may be towards operator	09	Injury to eyes and face	3	1	3	Machine cycle interlocked with door closing.	✓																																				
																10	Injury to fingers	3	2	6	Safety hand gloves provided	✓																																				
																Machining operation 50	Clamping of component	While unloading the component may be towards operator	11	Injury to leg	3	2	6	Safety shoes provided	✓																																	
																			12	Injury to fingers	3	1	3	Two hand switch buttons provided for clamping.	✓																																	
																			Machining operation 60	Clamping of component	While unloading the component may be towards operator	13	Injury to eyes and face	3	1	3	Machine cycle interlocked with door closing.	✓																														
																						14	Injury to fingers	3	2	6	Safety hand gloves provided	✓																														
																						Machining operation 70	Clamping of component	While unloading the component may be towards operator	15	Injury to leg	3	2	6	Safety shoes provided	✓																											
																									16	Injury to fingers	3	1	3	Two hand switch buttons provided for clamping.	✓																											
																									Machining operation 80	Clamping of component	While unloading the component may be towards operator	17	Injury to eyes and face	3	1	3	Machine cycle interlocked with door closing.	✓																								
																												18	Injury to fingers	3	2	6	Safety hand gloves provided	✓																								
																												Machining operation 90	Clamping of component	While unloading the component may be towards operator	19	Injury to leg	3	2	6	Safety shoes provided	✓																					
																															20	Injury to fingers	3	1	3	Two hand switch buttons provided for clamping.	✓																					
																															Machining operation 00	Clamping of component	While unloading the component may be towards operator	21	Injury to eyes and face	3	1	3	Machine cycle interlocked with door closing.	✓																		
																																		22	Injury to fingers	3	2	6	Safety hand gloves provided	✓																		
																																		Machining operation 10	Clamping of component	While unloading the component may be towards operator	23	Injury to leg	3	2	6	Safety shoes provided	✓															
																																					24	Injury to fingers	3	1	3	Two hand switch buttons provided for clamping.	✓															

