Risk Assessment Report

Report Information

Application:	baseplate punch
Description:	method for baseplate punch
Product Identifier:	baseplate
Assessment Type:	Detailed
Limits:	Risk assessment analysis
Sources:	Personnel experiences, ANSI B11 standards, machine documentation
Risk Scoring System:	ANSI B11.0 (TR3) Two Factor
Guide Sentence:	When doing [task], the [user] could be injured by the [hazard] due to the [failure mode].
Analyst Name(s):	Risk Assessment Team
Company:	vulcraft
Facility Location:	leduc
Date:	07/26/2025

Risk Assessment Details

Item Id	User / Task	Hazard / Failure Mode	Initial Assessment - Severity	Initial Assessment - Probability	Initial Assessment - Risk Level	Risk Reduction Methods / Control System	Final Assessment - Severity	Final Assessment - Probability	Final Assessment - Risk Level	Status / Responsible / Comments / Reference
1	baseplate punch operator punch holes	Mechanical: Crushing Moving parts, heavy equipment, presses	Catastrophic	Very Likely	High		Catastrophic	Very Likely	High	In Progress

Item Id	User / Task	Hazard / Failure Mode	Initial Assessment - Severity	Initial Assessment - Probability	Initial Assessment - Risk Level	Risk Reduction Methods / Control System	Final Assessment - Severity	Final Assessment - Probability	Final Assessment - Risk Level	Status / Responsible / Comments / Reference
2	baseplate punch operator punch holes	Mechanical: Pinch Point Between moving and stationary parts	Catastrophic	Very Likely	High		Minor	Very Likely	Medium	In Progress
3	baseplate punch operator punch holes	Other: Break Up During Operation Flying debris, component failure	Catastrophic	Very Likely	High		Catastrophic	Very Likely	High	In Progress
4	baseplate punch operator punch holes	Ergonomics/Human Factors: Repetitive Motion Assembly work, typing, tool operation	Catastrophic	Very Likely	High		Catastrophic	Remote	Medium	In Progress
5	baseplate punch operator punch holes	Ergonomics/Human Factors: Heavy Lifting Manual material handling, equipment moving	Catastrophic	Very Likely	High		Minor	Very Likely	Medium	In Progress
6	baseplate punch operator tool change	Mechanical: Crushing Moving parts, heavy equipment, presses	Catastrophic	Very Likely	High		Catastrophic	Very Likely	High	In Progress
7	baseplate punch operator tool change	Mechanical: Pinch Point Between moving and stationary parts	Catastrophic	Very Likely	High		Moderate	Remote	Low	In Progress
8	baseplate punch operator tool change	Other: Break Up During Operation Flying debris, component failure	Catastrophic	Very Likely	High		Catastrophic	Very Likely	High	In Progress
9	baseplate punch operator tool change	Material Handling: Manual Handling Lifting, carrying, pushing, pulling	Catastrophic	Very Likely	High		Catastrophic	Very Likely	High	In Progress
10	baseplate punch operator tool change	Fluid/Pressure: Fluid Injection High pressure fluids, hydraulic systems	Catastrophic	Very Likely	High		Catastrophic	Very Likely	High	In Progress
11	baseplate punch operator tool change	Fluid/Pressure: Fluid Leaks Hydraulic oil, coolant, process fluids	Catastrophic	Very Likely	High		Catastrophic	Very Likely	High	In Progress

Control System Assessment

Safety Function	Associated Hazard	Initial Risk	Final Risk	Required Category	Actual Category	Control Type	Verification
Control for Crushing	baseplate punch operator - punch holes - Crushing - Moving parts, heavy equipment, presses	High	High	Category 4	Category 4	Interlock	asdf
Control for Pinch Point	baseplate punch operator - punch holes - Crushing - Moving parts, heavy equipment, presses	High	Medium	Category 3	Category 3	Interlock	asdf
Control for Break Up During Operation	baseplate punch operator - punch holes - Crushing - Moving parts, heavy equipment, presses	High	High	Category 4	Category 4	Interlock	
Control for Repetitive Motion	baseplate punch operator - punch holes - Crushing - Moving parts, heavy equipment, presses	High	Medium	Category 3	Category 3	Interlock	asd
Control for Heavy Lifting	baseplate punch operator - punch holes - Crushing - Moving parts, heavy equipment, presses	High	Medium	Category 3	Category 3	Interlock	asdf
Control for Crushing	baseplate punch operator - punch holes - Crushing - Moving parts, heavy equipment, presses	High	High	Category 4	Category 4	Interlock	
Control for Pinch Point	baseplate punch operator - punch holes - Crushing - Moving parts, heavy equipment, presses	High	Low	Category 1	Category 1	Interlock	
Control for Break Up During Operation	baseplate punch operator - punch holes - Crushing - Moving parts, heavy equipment, presses	High	High	Category 4	Category 4	Interlock	
Control for Manual Handling	baseplate punch operator - punch holes - Crushing - Moving parts, heavy equipment, presses	High	High	Category 4	Category 4	Interlock	asdfg
Control for Fluid Injection	baseplate punch operator - punch holes - Crushing - Moving parts, heavy equipment, presses	High	High	Category 4	Category 4	Interlock	

Safety Function	Associated Hazard	Initial Risk	Final Risk	Required Category	Actual Category	Control Type	Verification
Control for Fluid Leaks	baseplate punch operator - punch holes - Crushing - Moving parts, heavy equipment, presses	High	High	Category 4	Category 4	Interlock	

Alternative Methods Assessment

Task	Associated Hazard	Risk Assessment Complete	Justification	Procedure	Engineering Controls	Training Requirements	Verification Steps	Approvals
punch holes	baseplate punch operator - punch holes - Crushing - Moving parts, heavy equipment, presses	Yes	LOTO not feasible for punch holes due to Crushing. Alternative method provides equivalent protection.	asdfasdfg	asdgfasdg	5YA 54YA E45Y	AE5Y AE5Y	A5Y
punch holes	baseplate punch operator - punch holes - Crushing - Moving parts, heavy equipment, presses	Yes	LOTO not feasible for punch holes due to Pinch Point. Alternative method provides equivalent protection.	asdgfasdg	asdfasdfasdf	AY5 A43EY A	AEY5 AE5Y	5Y AE
punch holes	baseplate punch operator - punch holes - Crushing - Moving parts, heavy equipment, presses	Yes	LOTO not feasible for punch holes due to Break Up During Operation. Alternative method provides equivalent protection.	fasd as	asdfg	Y7 A	AE5 AE5Y A5Y E	AE5Y AE
punch holes	baseplate punch operator - punch holes - Crushing - Moving parts, heavy equipment, presses	Yes	LOTO not feasible for punch holes due to Repetitive Motion. Alternative method provides equivalent protection.	asdfasdfwaqytgqa asdf awsef aw34	asdg	AE54Y AE45Y A	AEY5 AE5Y	5Y AE5Y
punch holes	baseplate punch operator - punch holes - Crushing - Moving parts, heavy equipment, presses	Yes	LOTO not feasible for punch holes due to Heavy Lifting. Alternative method provides equivalent protection.	asdfasdfwaqytgqa asdf awsef aw34	awet	U8AZ45EY7U AZQ4E	Y AE5Y	YAE

Task	Associated Hazard	Risk Assessment Complete	Justification	Procedure	Engineering Controls	Training Requirements	Verification Steps	Approvals
tool change	baseplate punch operator - punch holes - Crushing - Moving parts, heavy equipment, presses	Yes	LOTO not feasible for tool change due to Crushing. Alternative method provides equivalent protection.	asdf	4t qa34wt	5Y A5E4Y AE45Y	AE45Y AE5	AE5 YAE5
tool change	baseplate punch operator - punch holes - Crushing - Moving parts, heavy equipment, presses	Yes	LOTO not feasible for tool change due to Pinch Point. Alternative method provides equivalent protection.	asdfasdfwaqytgqa asdf awsef aw34	a43w	87U A4ZE567	45EY A54EY	AE5 Y
tool change	baseplate punch operator - punch holes - Crushing - Moving parts, heavy equipment, presses	Yes	LOTO not feasible for tool change due to Break Up During Operation. Alternative method provides equivalent protection.	asdfasdfwaqytgqa asdf awsef aw34	qaw4t qaw3	7 4QA	Y5 A4E5Y A	Y5 AE5Y
tool change	baseplate punch operator - punch holes - Crushing - Moving parts, heavy equipment, presses	Yes	LOTO not feasible for tool change due to Manual Handling. Alternative method provides equivalent protection.	asdfasdfwaqytgqa asdf awsef aw34	tr qa34	7 4	54Y A54EY A	AE5Y
tool change	baseplate punch operator - punch holes - Crushing - Moving parts, heavy equipment, presses	Yes	LOTO not feasible for tool change due to Fluid Injection. Alternative method provides equivalent protection.	asdf	t qa34t a34	TY QA3	5Y A	AE5 Y
tool change	baseplate punch operator - punch holes - Crushing - Moving parts, heavy equipment, presses	Yes	LOTO not feasible for tool change due to Fluid Leaks. Alternative method provides equivalent protection.	asdfasdfwaqytgqa asdf awsef aw34	T QA34T 3	QA46	A4E5Y A4E5Y A	AE5Y