



MACHINERY SAFETY WEBINAR

New Zealand Standards



AS/NZS 4024.1303:2014

(ISO/TR 14121-2:2012, IDT)

Australian/New Zealand Standard

Safety of machinery

**Part 1303: Risk assessment—Practical guidance
and examples of methods**

Language of risk

Hazard

A hazard is something that can injure you, make you sick or kill you (The source of the harm or loss).



Risk

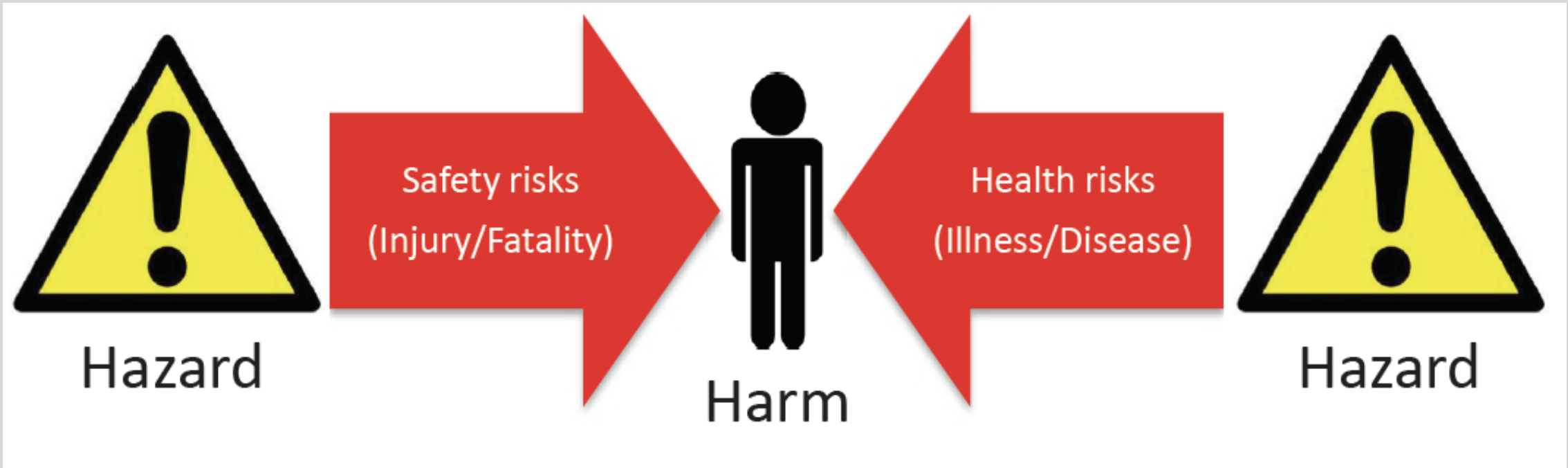
A risk is the chance that exposure to a hazard can or will lead to harm. (The chance of it happening).

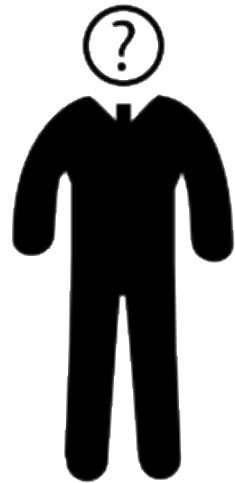
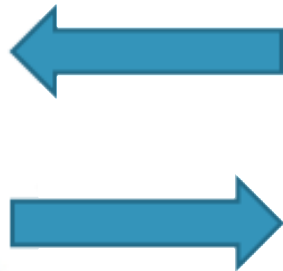


Risk Management

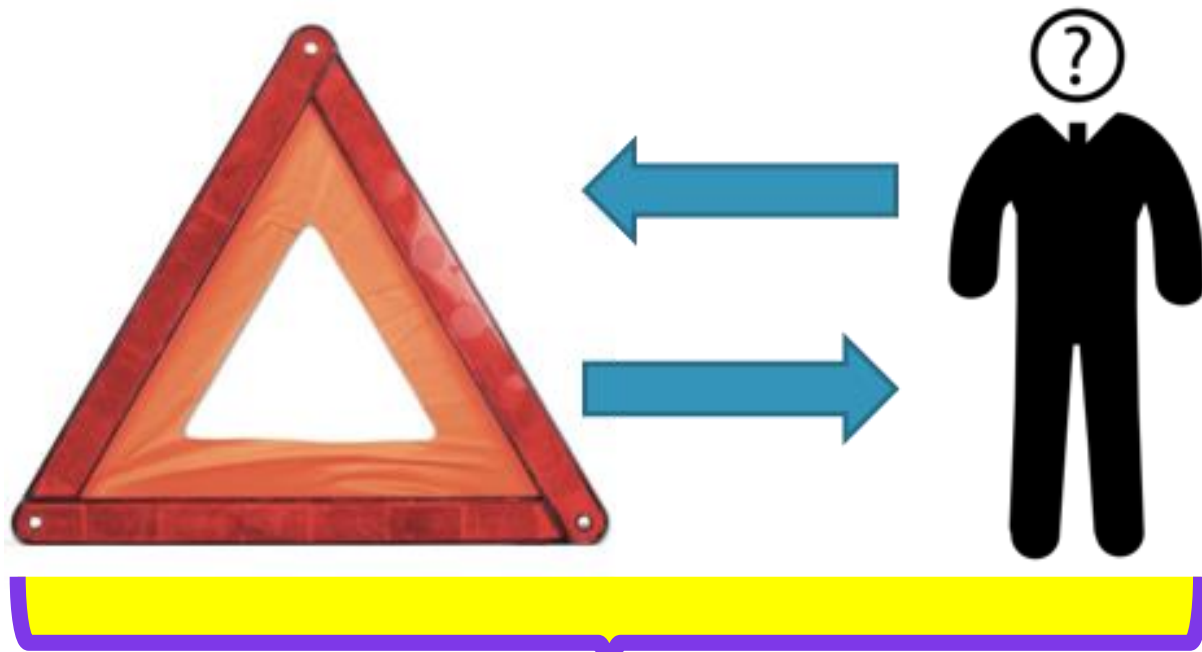
The process we use to identify hazards, assess the risks posed by the hazard and then control the risks whilst monitoring to ensure they remain effective over time.

Occurrence of harm





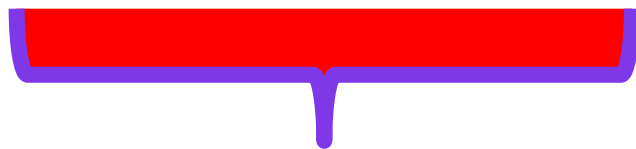
OCCURRENCE
OF HARM - 2
WAY EFFECT




Hazardous Situation



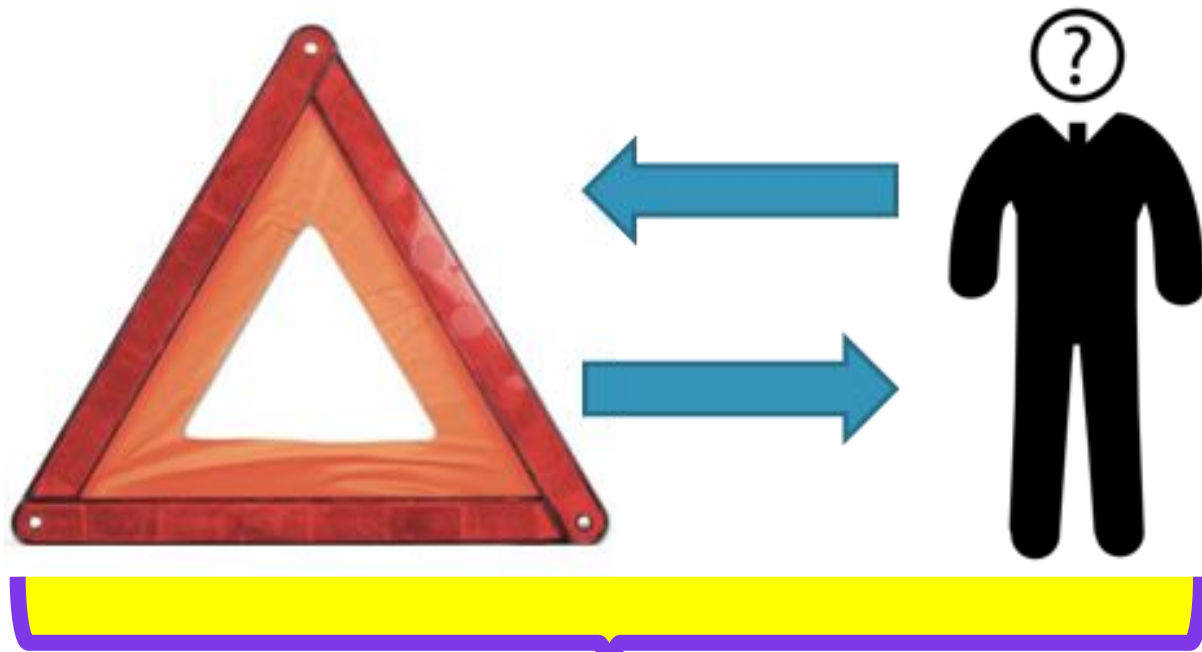
Hazardous Event



Harm/Injury



OCCURRENCE
OF HARM –
ACUTE
PROCESS



Exposure

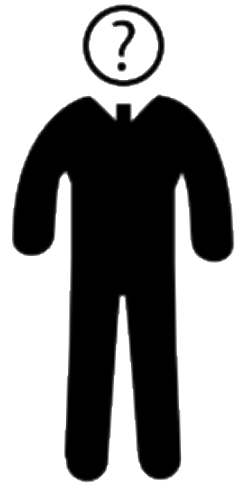
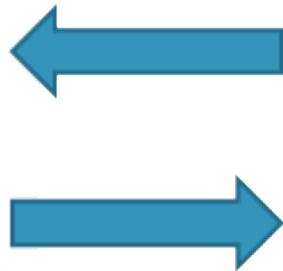


Time



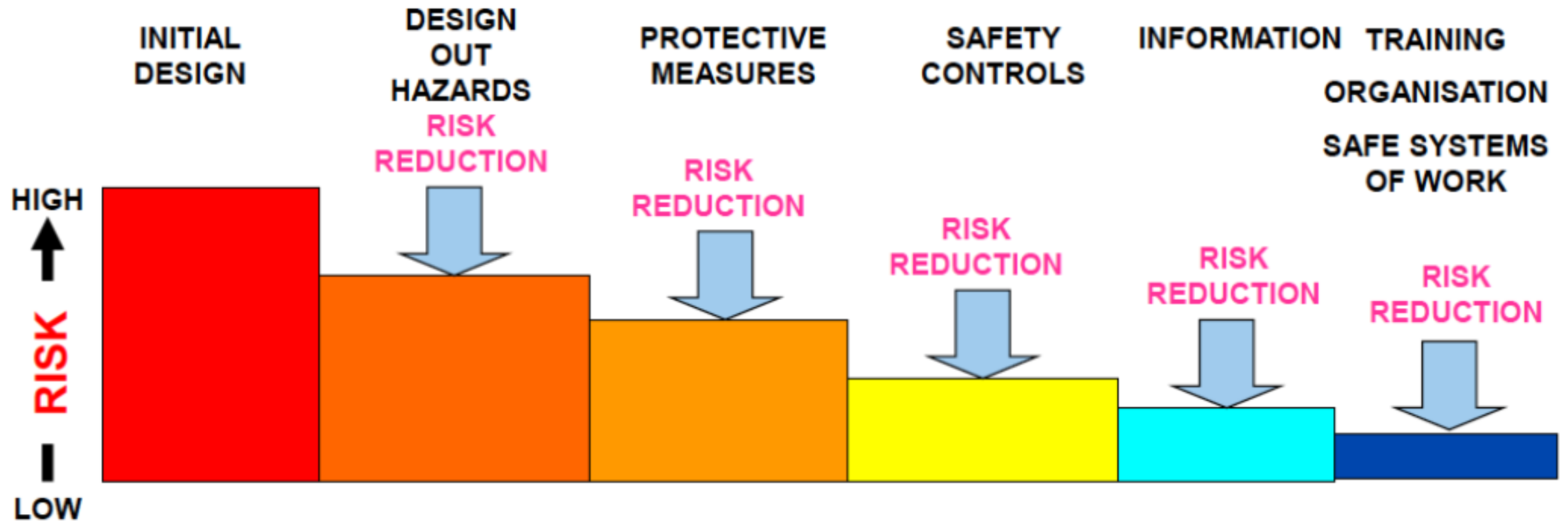
Harm to health

OCCURRENCE
OF HARM –
CHRONIC
PROCESS



OCCURRENCE
OF HARM - 2
WAY EFFECT

Risk reduction



Sources of physical hazards

Power Source

Electrical, Pneumatic, Hydraulic etc



Power Train

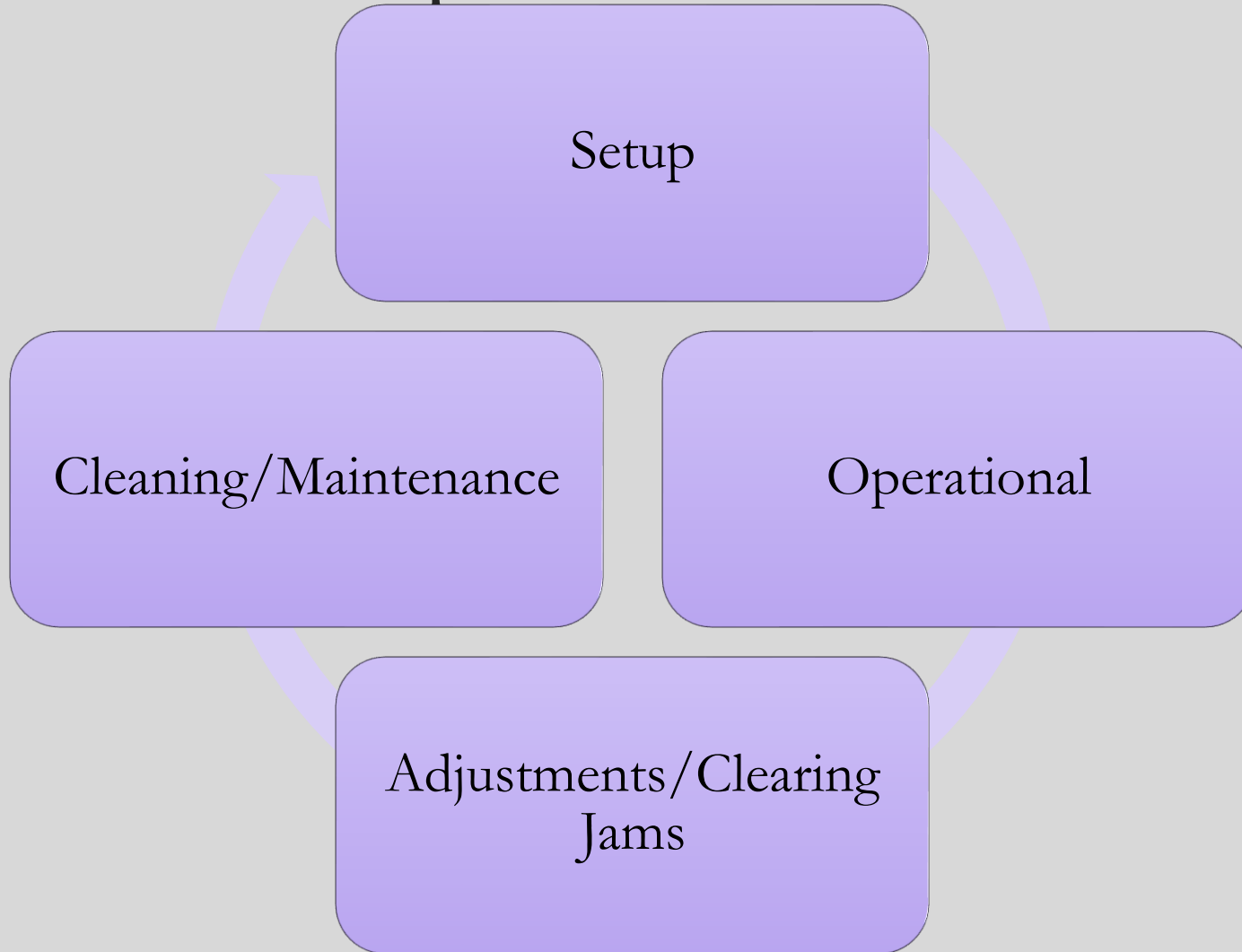
What makes something move



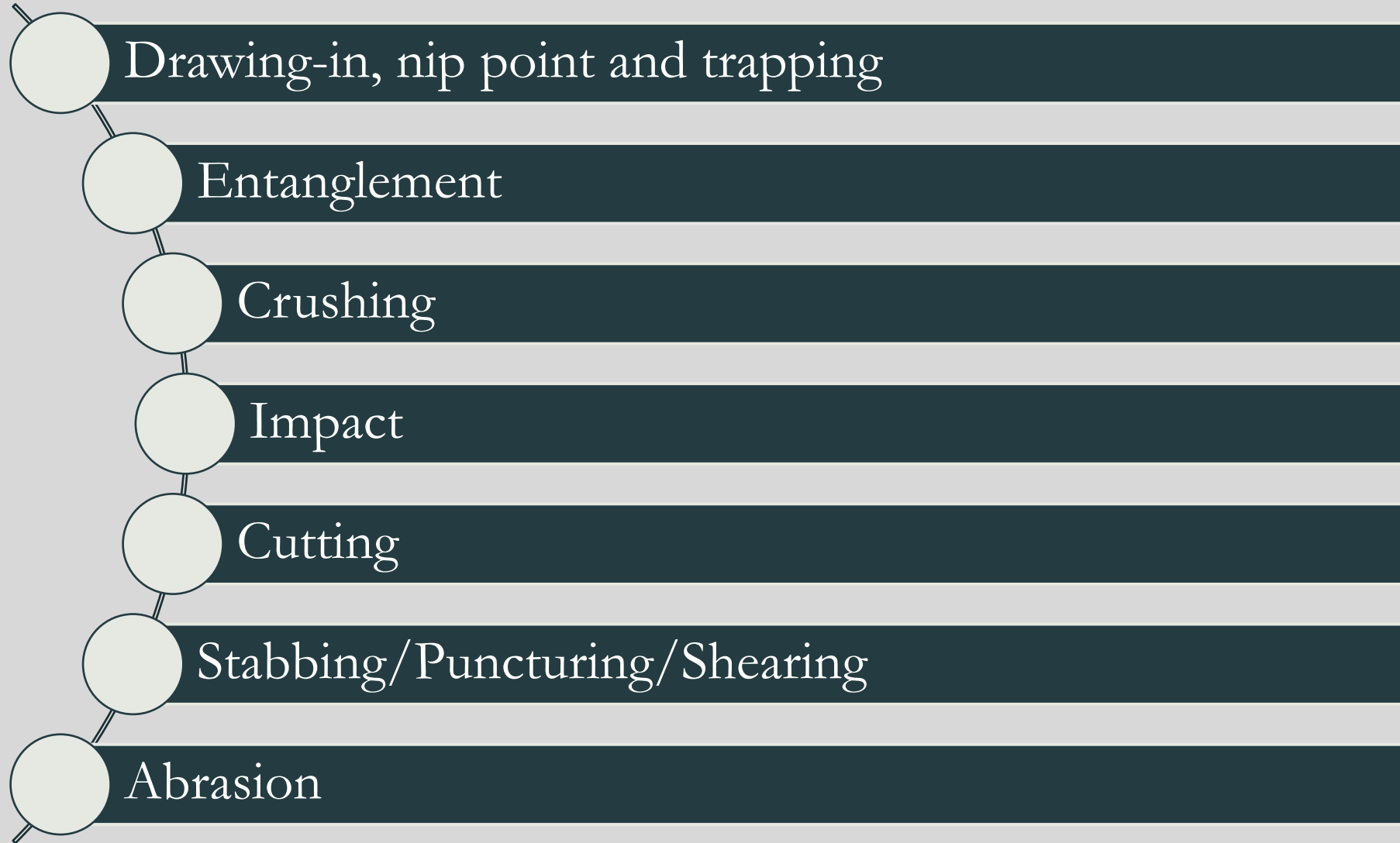
Tooling/Materials

Things that are used as part of the machine process

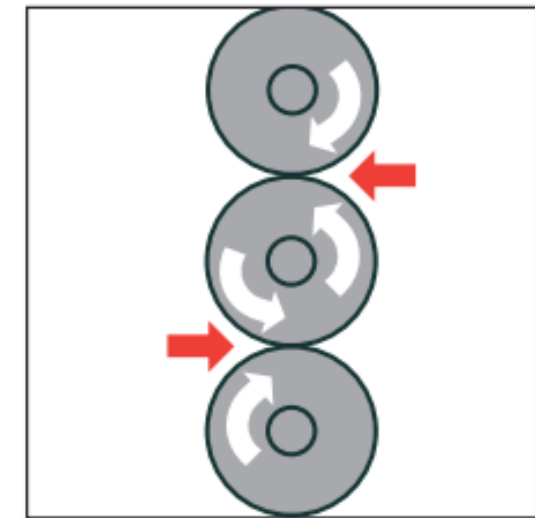
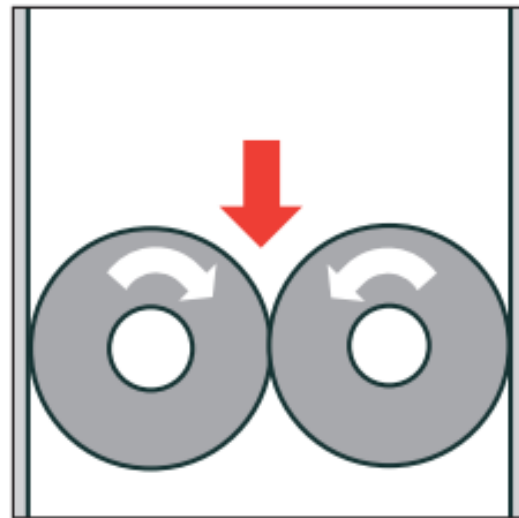
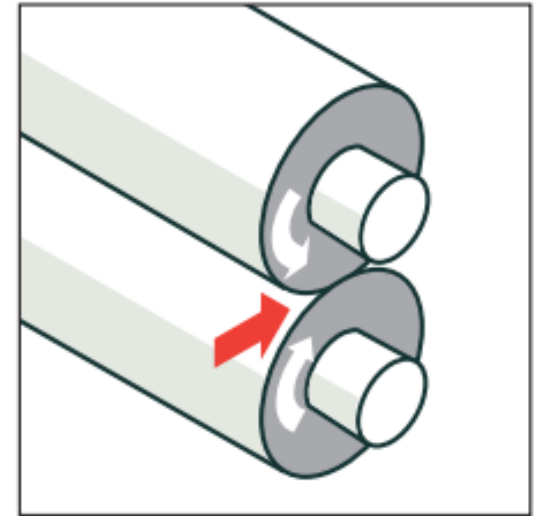
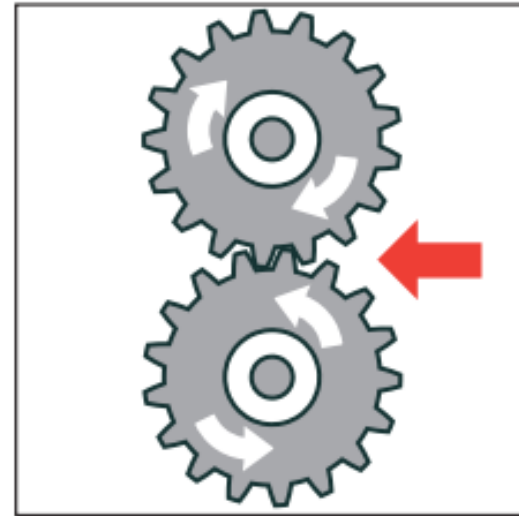
The routine work phases



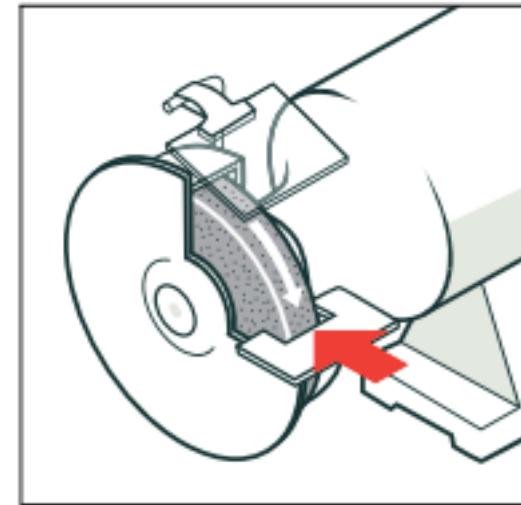
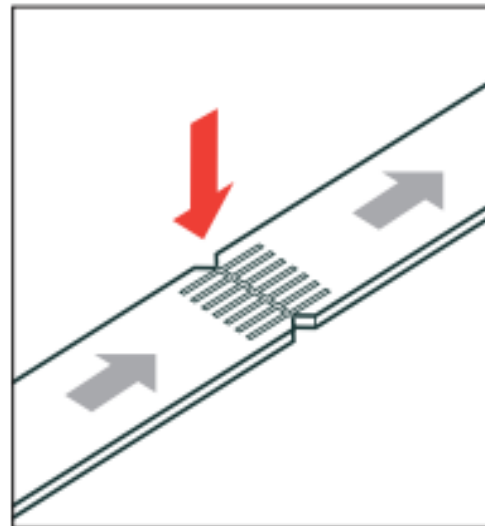
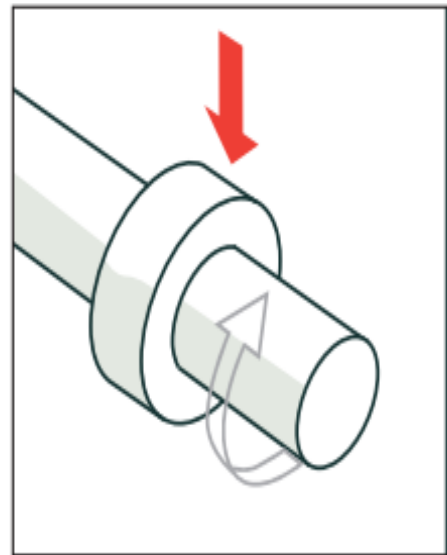
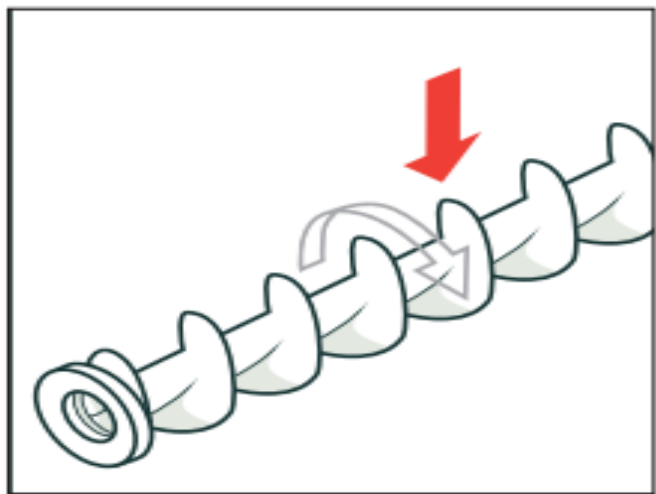
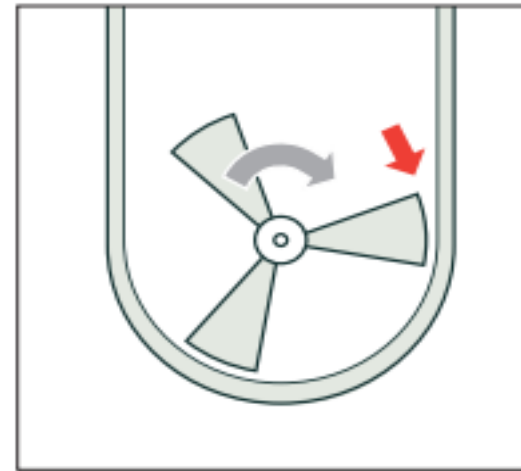
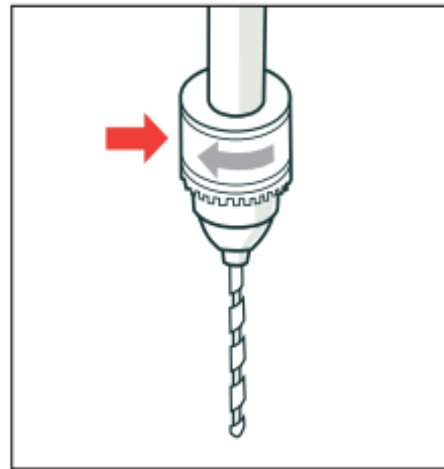
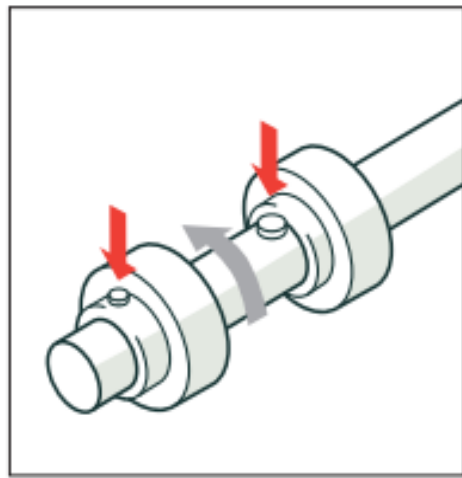
7 Common Hazards

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- Drawing-in, nip point and trapping
 - Entanglement
 - Crushing
 - Impact
 - Cutting
 - Stabbing/Puncturing/Shearing
 - Abrasion

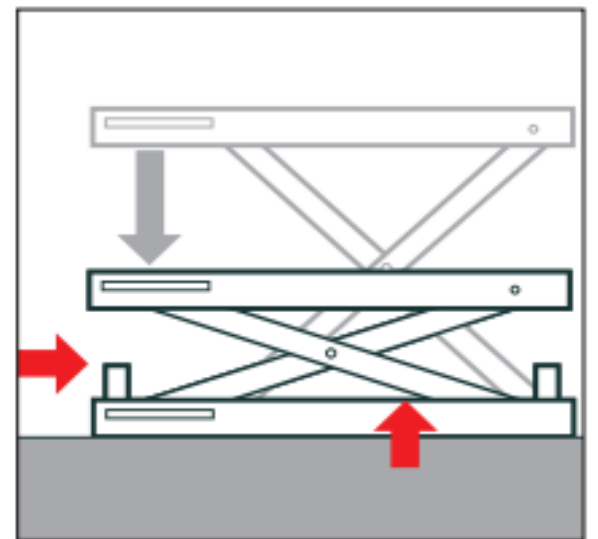
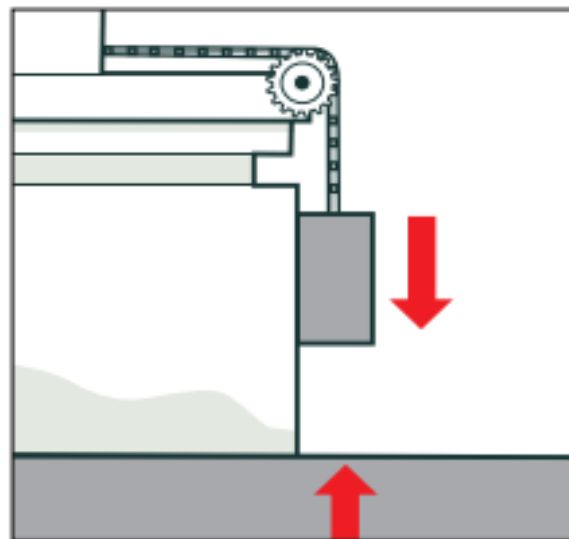
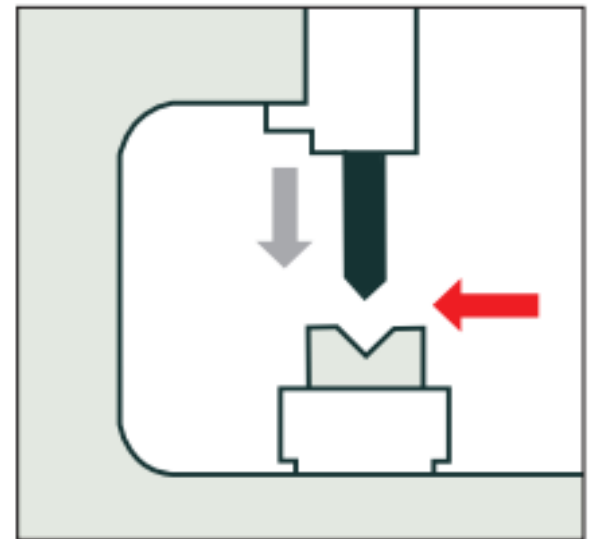
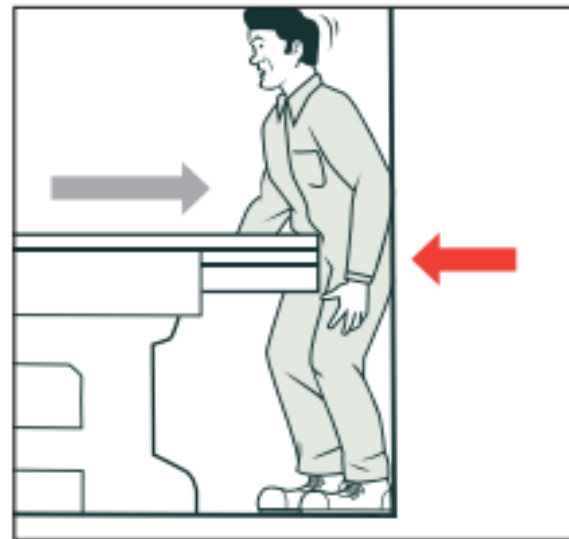
DRAWING-
IN,
NIP POINT
AND
TRAPPING



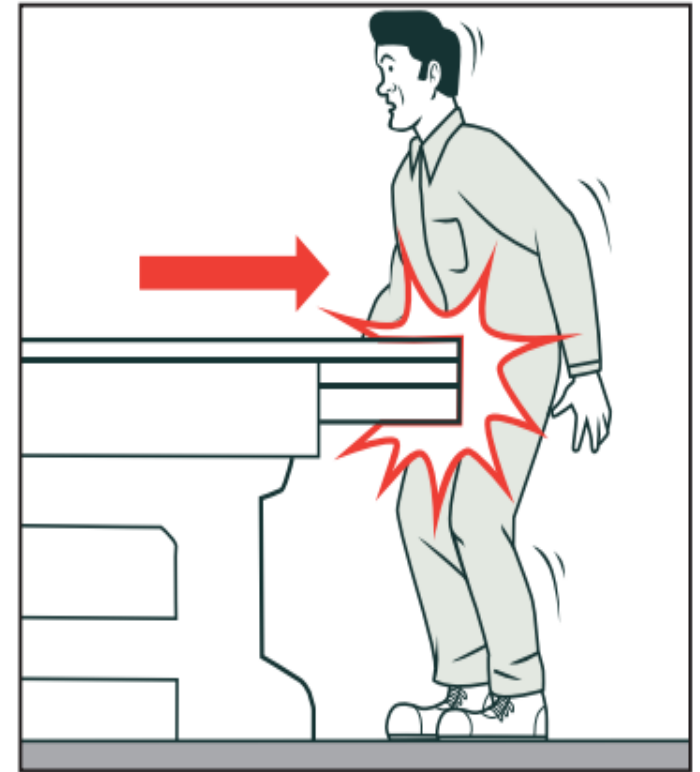
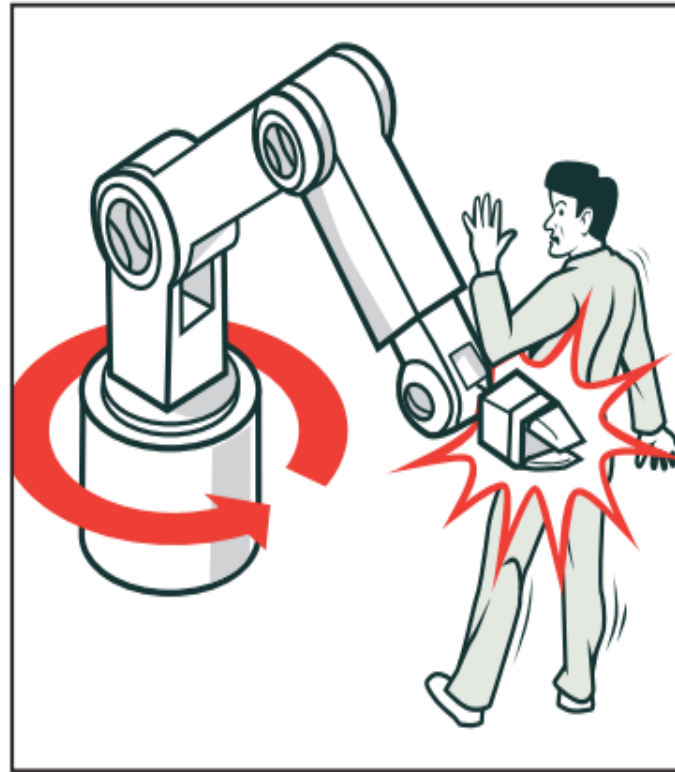
Entanglement



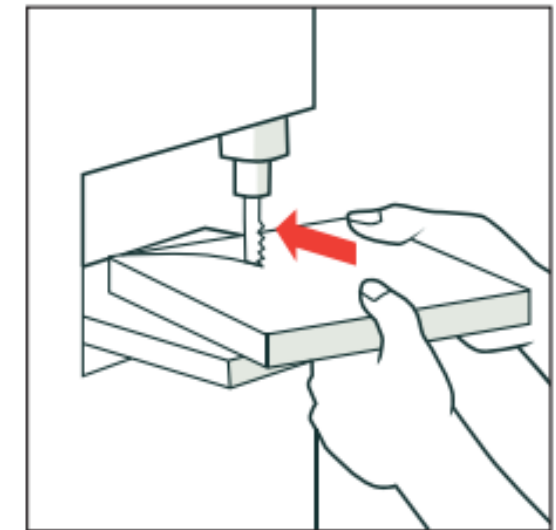
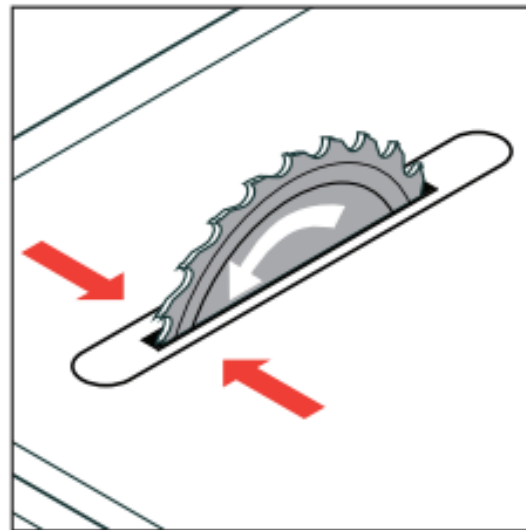
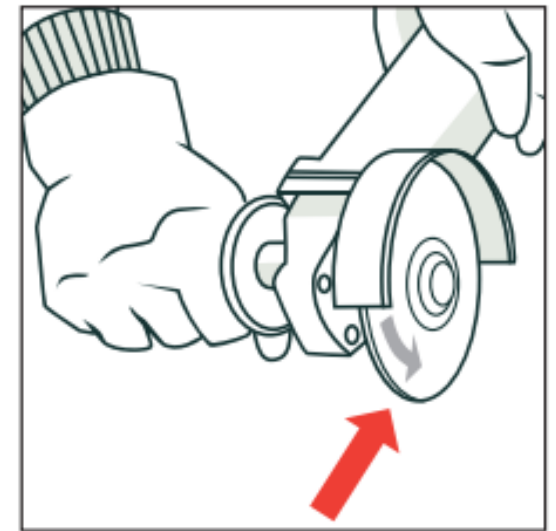
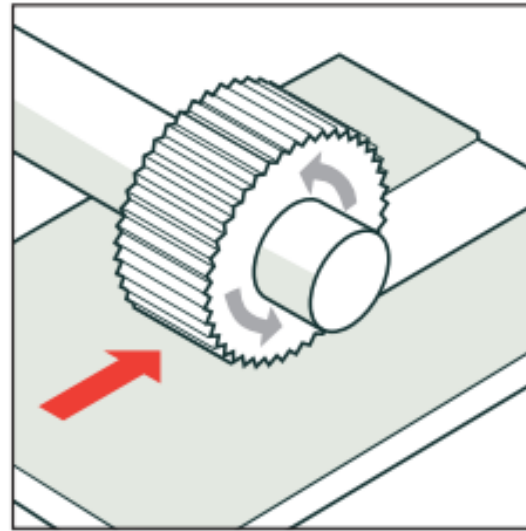
CRUSHING



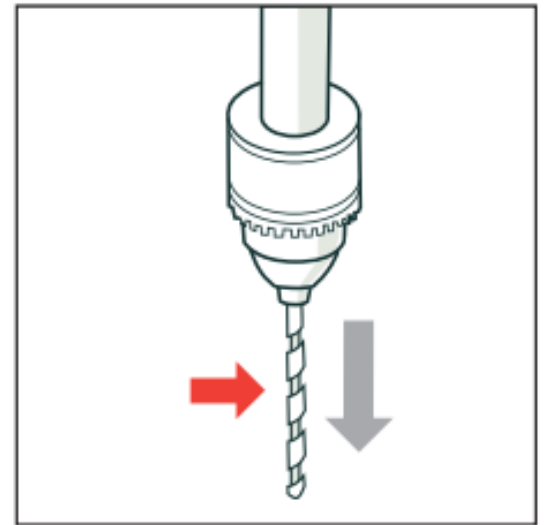
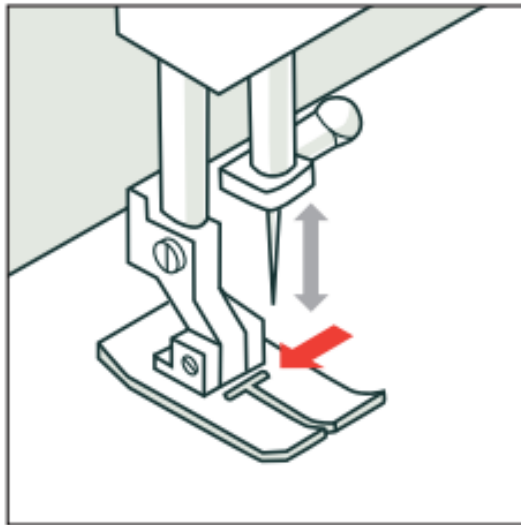
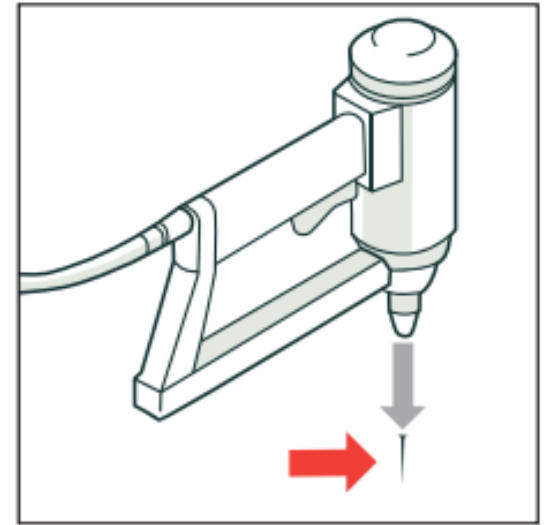
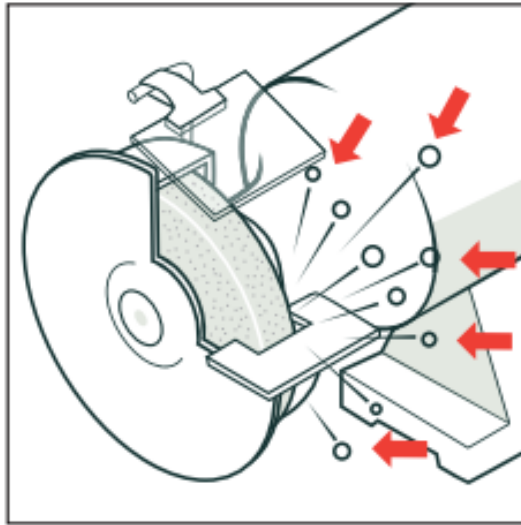
IMPACT



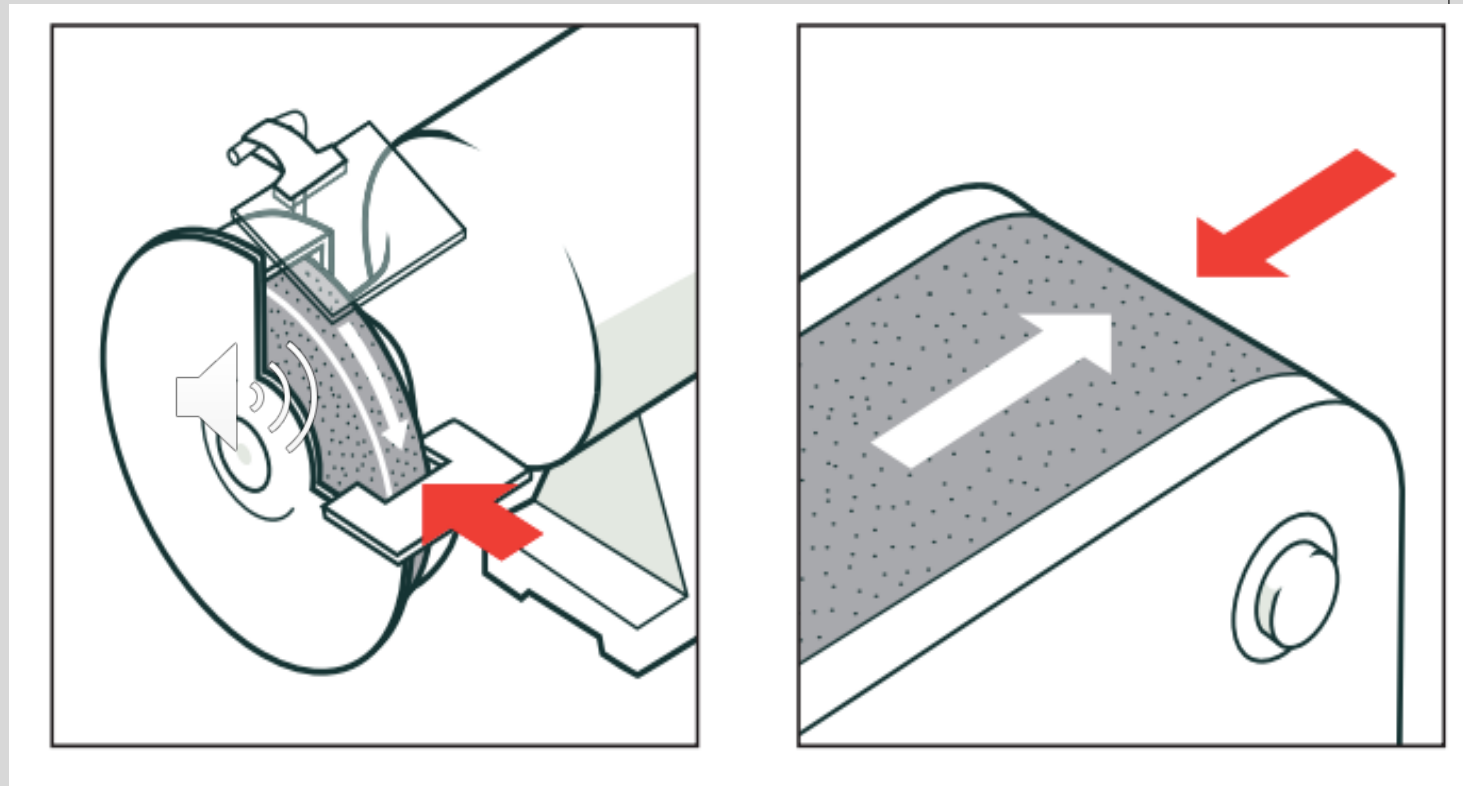
CUTTING



STABBING/ PUNCTURING /SHEARING



ABRASION



HAZARD ID CHECKLIST

Can anyone be crushed due to:	Y/N	How and where can this occur?
Material falling off the plant?		
Uncontrolled or unexpected movement of the plant?		
Lack of capacity for the plant to be slowed, stopped or immobilised?		
The plant tipping or rolling over?		
Parts of the plant collapsing?		
Coming into contact with moving parts of the plant during testing, inspection, operation, maintenance, cleaning or repair?		
Being thrown off or under plant?		
Being trapped between the plant and materials or fixed structures?		

QUESTIONS?





THANK YOU FOR YOUR
ATTENDANCE