

# KERRICK 503PL SERIES SINGLE MOTOR VAC HAZARD EVALUATION

QUESTION? CAN A PERSON BE INJURED?	HAZARD Y OR N?	What is the Hazard?	HAZARD RATING No	If Rating No. is 15 or less What is the CONTROL??
<b>A. ENTANGLEMENT</b>				
1. Can anyone's hair, clothing, gloves, necktie, jewellery, cleaning brushes, rags or other materials become entangled with moving parts of the plant, or materials in motion?	N			
<b>B. CRUSHING</b>				
<b>1. Can anyone be crushed due to</b>				
a. Material falling off the plant?	N			
b. Uncontrolled or unexpected moving of the plant or its load?	N			
c. Lack of capacity for the plant to be slowed, stopped or immobilized?	N			
d. The plant tipping or rolling over?	N			
e. Part of the plant collapsing?	N			
f. Coming in contact with moving parts of the plant during testing, inspection, operation, maintenance, cleaning or repair?	N			
g. Being thrown off or under the plant?	N			
h. Being trapped between the plant and material or fixed structures?	N			
i. Other factors not mentioned? <i>(Spectators must be kept away)</i>	N			
<b>C. CUTTING, STABBING OR PUNCTURING?</b>				
<b>1. Can anyone be cut, stabbed or punctured due to</b>				
a. Coming in contact with sharp or flying objects?	N			
b. Coming in contact with moving parts of the plant during testing, inspection, operations, maintenance, cleaning or repair of the plant?	N			
c. The plant, parts of the plant or work pieces disintegrating?	N			
d. Work pieces being ejected?	N			
e. The mobility of the plant?	N			
f. Uncontrolled or unexpected movement of the plant?	N			
g. Other factors not mentioned? <i>(Spectators must be kept away)</i>	N			
<b>D. SHEARING</b>				
1. Can anyone's body parts be sheared between tow parts of the plant, or material handled by the plant?	N			
<b>E. FRICTION</b>				
1. Can anyone be burnt due to contact with moving parts or surfaces of the plant, or between a part of the plant and a work piece or structure?	N			
<b>F. STRIKING</b>				
<b>1. Can anyone be struck by moving objects due to</b>				
a. Uncontrolled or unexpected movement of the plant?	N			
b. The plant, parts of the plant or work pieces disintegrating?	N			
c. Work pieces being ejected?	N			
d. The mobility of the plant?	N			

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<b>G. HIGH PRESSURE SUBSTANCES</b> 1. Can anyone come into contact with substances under high pressure, due to plant failure or misuse of the plant?				
<b>H. ELECTRICAL</b> 1. Can anyone be injured by electrical shock or burnt due to				
a. The plant contacting live electrical conductors?				
b. The plant working in close proximity to electrical conductors?				
c. Overload of electrical circuits?	Y	Blown Fuse	25	
d. Damaged or poorly maintained electrical leads and cables?	Y	Electric Shock	21	Regular Inspection
e. Damaged electrical switches?	Y	Electric Shock	21	Regular Inspection
f. Water near electrical equipment?	Y	Electric Shock	21	Common Sense
g. Lack of isolation procedures?	Y	Electric Shock	21	Regular Inspection
h. Other factors not mentioned?	Y	Who Knows	21	
<b>I. EXPLOSION</b> 1. Can anyone be injured by explosion of gases, vapours, liquids, dusts or other substances, triggered by the operation of the plant or by material handled by the plant?	Y	Explosion	15	Workplace Safety
<b>J. SLIPPING, TRIPPING &amp; FALLINGS</b> 1. Can anyone using the plant, or in the vicinity of the plant, slip, trip or fall due to				
a. Uneven or Slippery work surfaces?	Y	Human	18	Workplace Safety
b. Poor housekeeping, eg swarf in the vicinity or the plant spillage not cleaned up?	Y	Human	18	Workplace Safety
c. Obstacles being placed in the vicinity of the plant, other factors not not being mentioned?	Y	Human	18	Workplace Safety
2. Can anyone fall from a height due to				
a. Lack of proper work platform?	Y	Human	18	Workplace Safety
b. Lack of proper stairs or ladders?	Y	Human	18	Workplace Safety
c. Lack of guardrails or other suitable edge protection?	Y	Human	18	Workplace Safety
d. Unprotected holes, penetrations or gaps?	Y	Human	18	Workplace Safety
e. Poor floor or walking surfaces, such as the lack of slip resistant surface?	Y	Human	18	Workplace Safety
f. Steep walking surfaces?	Y	Human	18	Workplace Safety
g. Collapse of supporting structure?	Y	Human	18	Workplace Safety
h. Other factors not mentioned?	Y	Human	18	Workplace Safety
<b>K. ERGONOMIC</b> 1. Can anyone be inured due to				
a. Poorly designed seating?	N			
b. Repetitive body movement?	N			
c. Constrained body posture or the need for excessive effort?	N			

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d. Inadequate or poorly placed lighting?	Y	Human	18	Common Sense
e. Lack of consideration given to human error or human behaviour?	Y	Human	18	Common Sense
f. Mismatch of the plan with human traits and natural limitations?	Y	Human	18	Common Sense
g. Other factors not mentioned?	Y	Human	18	Common Sense
<b>L. SUFFOCATION</b> 1. Can anyone be suffocated due to lack of oxygen, or atmospheric contamination?	N			
<b>M. HIGH TEMPERATURE OR FIRE</b> 1. Can anyone come in contact with objects at high temperature?	N			
<b>N. OTHER HAZARDS</b> 1. Can anyone be injured or suffer ill health from exposure to				
a. Chemicals:	N			
b. Toxic gases or vapours?	N			
c. Fumes?	N			
d. Dust?	Y	Human	23	Protective Clothing
e. Noise?	N			
f. Vibration?	N			
g. Radiation	N			
h. Other factors not mentioned?	N			

## CALCULATION FOR RISK ASSESSMENT

For each identified hazard consider the maximum credible, not absolute worst case risk that may result and select from each of the following lists.

	Likelihood of Occurrence
1	Expected to happen
2	Common
3	Sometimes
4	Rarely
5	Highly unlikely

	Severity of Result
A	Fatality
B	Permanent Disability
C	Lost Time Injury
D	Medical Treatment
E	First Aid Injury

Plot the categories selected from 'Likelihood of Occurrence' and 'Severity of Result' onto the Hazard Rating Grid to determine the Hazard Rating Number.

Eg. If we plot 4 & b on the Hazard Rating Grid, the Hazard Rating number will be 14.

### HAZARD RATING GRID

	A	B	C	D	E
1	1	2	4	7	11
2	3	5	8	12	16
3	6	9	13	17	20
4	10	14	18	21	23
5	15	19	22	24	25

The Hazard Rating Number calculated for the risk assessment of an identified hazard is classified as follows:

a) Relatively High Risk 1 to 6

b) Medium Risk 7 to 15

c) Relatively Low Risk 16 to 25 (acceptable risk)