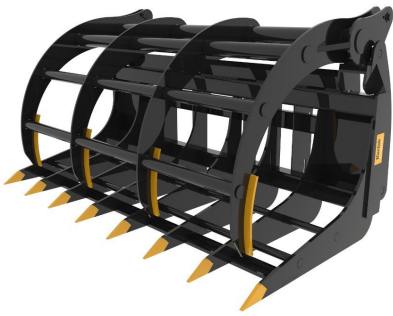


		Grapples & Grabs
Plant Risk Assessment	Assessment No: KERPRA-0014	

NB. This Plant Risk Assessment ONLY applies to the attachment named below. It DOES NOT extend to other item(s) of plant that are used to operate this attachment

Specifications	Refer to the Identification Plate on the Grapples and Grabs for the specifications relevant to the attachment. The loads carried by the Grapples and Grabs should NEVER EXCEED THE LOAD LIMIT OF THE BUCKET OR THE LOAD LIMIT OF THE MOBILE PLANT it is attached to eg. front end loader, wheel loader, telehandler, in the full scope of each mobile plant's operations.
Description of Use	The Grapples and Grabs are designed as an attachment for mobile plant including front end loaders, telehandlers, and wheel loaders. The Grapple and Grab attachments are designed to grab, lift, and carry cut vegetation, scrub, branches, logs and foliage. The Grapples and Grabs should only be used for vertical lifting and front on pulling. It should NOT be used for pulling loads sideways or heavy loads. NB: This attachment is to be only used for the purpose for which it is designed and intended.

Figure 1 – Grapples & Grabs Example (not all examples are shown)



Maintenance & Repair Assessment	
Daily Pre-Start Checks	Operator
Maintenance/Inspection Instructions	☒ Check hitch points for wear and damage ☒ Check all welds for damage or cracks ☒ Check ram pivot points and grab tine swivel points for damage and wear ☒ Check all tines, rear frame and hitch points for damage or bends/distortions ☒ Check hydraulic hoses, ram seals and connections for wear, damage or leaks ☒ Check front pivoting jaws for wear and distortions

	CAUTION – ALWAYS fully secure and support Grapple and grab tines using recognised lifting practices if working on the Grapple or Grab attachments to ensure the grapple and grab tines cannot move or grab tines cannot inadvertently close if open. <u>DO NOT</u> USE GRAPPLES OR GRABS IF WEAR OR DAMAGE MAKES THE USE OF THE PLANT HAZARDOUS
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WORKSITE SAFETY	
✓	All people involved in the operation are to wear appropriate personal protective equipment which may include eye protection, hearing protection, gloves, protective footwear, and high visibility clothing/vests
✓	Grapples and Grabs should be operated by a trained and experienced operator or an operator under direct supervision
✓	People to NOT enter work area or sweep area of attachment and load unless under the direction of the operator
✓	NEVER walk under the Grapple, Grab or load
✓	NEVER elevate Grapple, Grab or load above or in proximity to people
✓	Ensure all persons are clear of Grapple and Grab when they are being hitched or released

Hazard Identification, Risk Assessment & Risk Controls

Hazard	Risk	Control
Crushing 	Body parts can be crushed between mobile plant and Grapple and Grab attachment points when connecting to mobile plant mount.	Keep hands and body parts clear of area between attachment points and mobile plant mount.
Cuttings, Pinching, Shearing 	Fingers may be jammed in locking pinpoints as locking pins are engaged	Keep fingers clear when engaging locking pins into locking pinpoints at rear of Grapple and Grab attachment
Hydraulics 	Hydraulic fluid under pressure may cause injury if released while under pressure	- Ensure all hoses and connectors are in good working condition - Ensure all connections are secured and correctly sealed before using hydraulic controls
Cuttings, Pinching, Shearing 	Moving grab tines can trap and crush body parts	- Keep hands and body parts clear of area between Grapple tine and base tines or load - Keep hands clear of area around upper ram pivot point and grab tine pivot points when opening or closing grab tines
Crushing	Body parts can be crushed if Grapple or Grab attachment unexpectedly releases from mobile plant mount	- Ensure attachment is securely attached prior to use including fully engaging locking pins. - Regularly check that hitch points on Grapple and Grab and also mount parts are in good condition.

		
Crushing 	Body parts can be crushed if load unexpectedly releases from Grapple or Grab when used as a grab	- Ensure load is secured between the tines, bucket or grabs in the grab position before lifting - Put load down and reposition load in grab if load becomes unbalanced or unstable
Crushing 	Body parts can be crushed by unexpected tipping of Grapple or Grab	Ensure attachment is stable when released from mobile plant mount.
Crushing 	Hands and body parts can be crushed between tines, bucket, or grabs	- Keep body parts clear of tines, bucket, or grabs grab - Always store Grapples and Grabs in the fully closed position
Cutting, Pinching, Shearing 	Hands and body parts may be sheared in between the rear section and the pivoting jaw of the shear grabs	Keep hands and body parts clear of the pivoting jaw when the jaw is open or when the shear grab is operating