

# 2 X-LOCK™ QUICK HITCHES

**KINSHOFER**  
crane and excavator attachments



## X-LOCK™ QUICK HITCHES



# 2

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The **KINSHOFER** X-LOCK™ Quick hitch provides a safe exchange of attachments. After the operator's intended release of the safety knuckle, the attachment can be unlocked completely from the X-LOCK™ Quick hitch. To retract the safety knuckle, the operator manually activates the switch, thus opening for 5 to 10 seconds (adjustable) to uncouple the attachment.

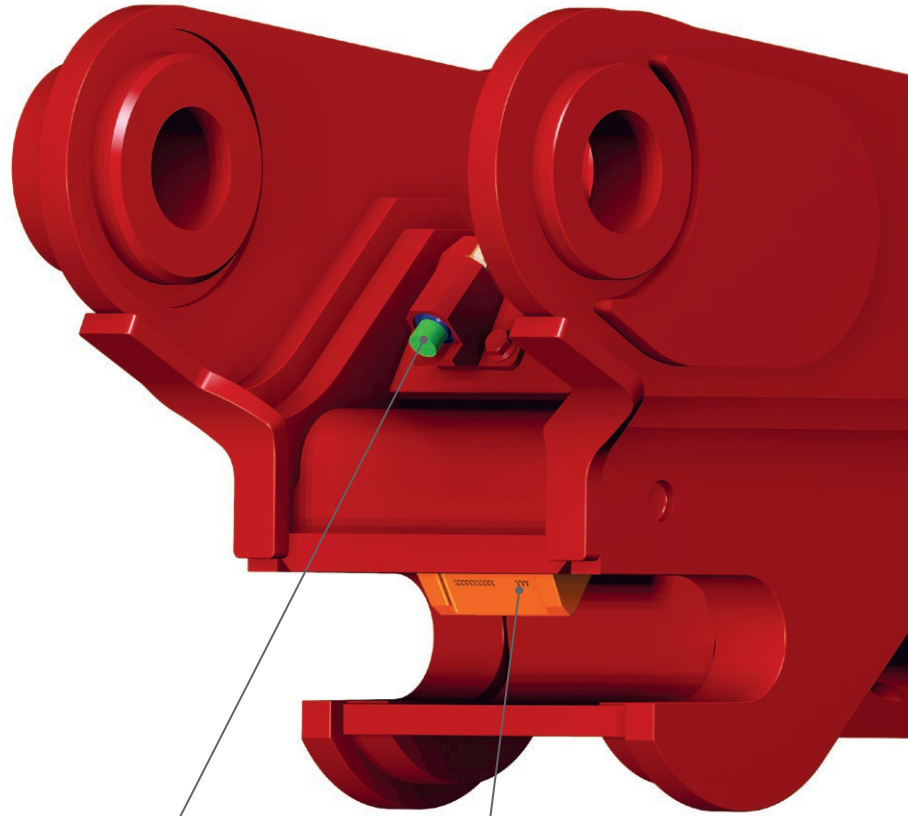
The wedge locking principle of the self-locking wedge provides a 2 ½ fold locking force compared to a pendular jaw quick hitch. Furthermore, the constantly applied working pressure continuously readjusts the wedge. It guarantees the firm positioning of both pins against the quick hitch, additionally minimizing the wear - in the locking area of your quick hitch.

! **IMMEDIATE** - The X-LOCK™ Safety Knuckle automatically engages onto the front pin without the need to activate the locking wedge.

! **INDEPENDENT** - The self-adjusting wedge is controlled by the operator.

! **INNOVATIVE** - After the X-LOCK™ is uncoupled from the attachment and an operator determined delay, the safety knuckle will return to the safe position.

! **COMPLIANT** - The X-LOCK™ features an indicator ensuring the operator that the quick hitch is correctly locked. It complies with the safety standard for attachments EN 474-1.



REAR LOCK INDICATOR

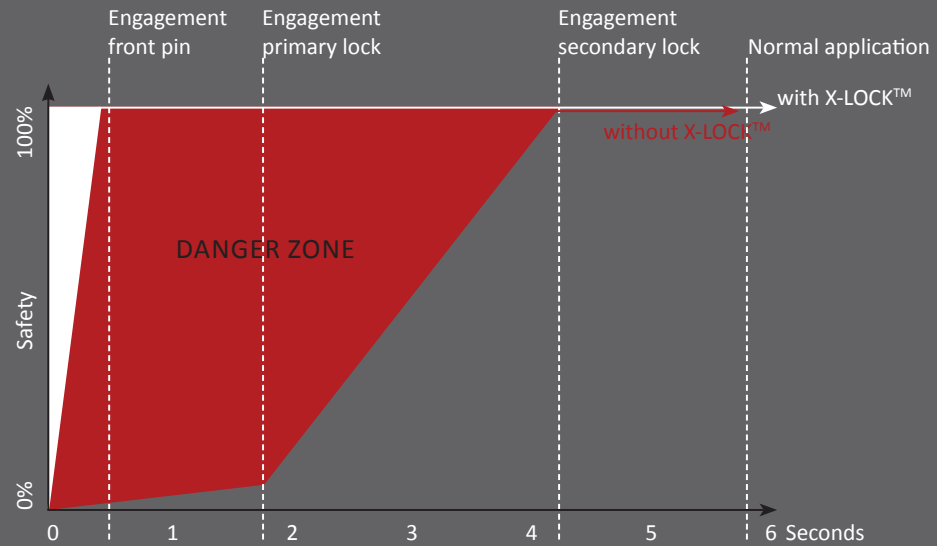
! **X-LOCK™ SAFETY KNUCKLE**  
The safety knuckle engages immediately and automatically onto the front pin using a 'Patent-Pending' design that can only be released by the operator.





Greatest **SAFETY** due to separately controlled locking devices. The operator has to unlock the self-locking wedge as well as the X-LOCK™ safety knuckle separately to change the attachment.

! Most serious accidents happen within the first 5 seconds of latching - major reduction with X-LOCK™ Quick hitches



! 'REARLOCK' INCLUDED AS A REDUNDANT SAFETY FEATURE

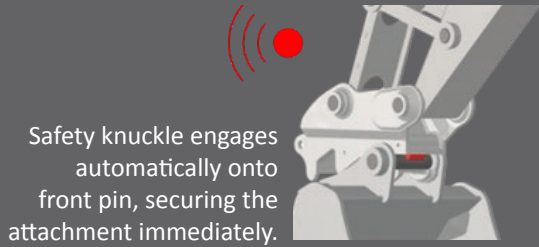
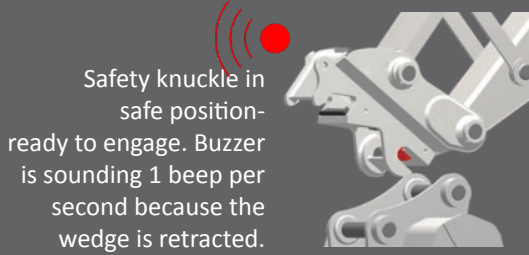
**SELF-ADJUSTING WEDGE**

Integral with the solenoid operated directional control valve are 2 pressure relief valves set to: Locking pressure – 120 bar and unlocking pressure – 240 bar. These ensure that the hydraulic circuit is not over pressurized.

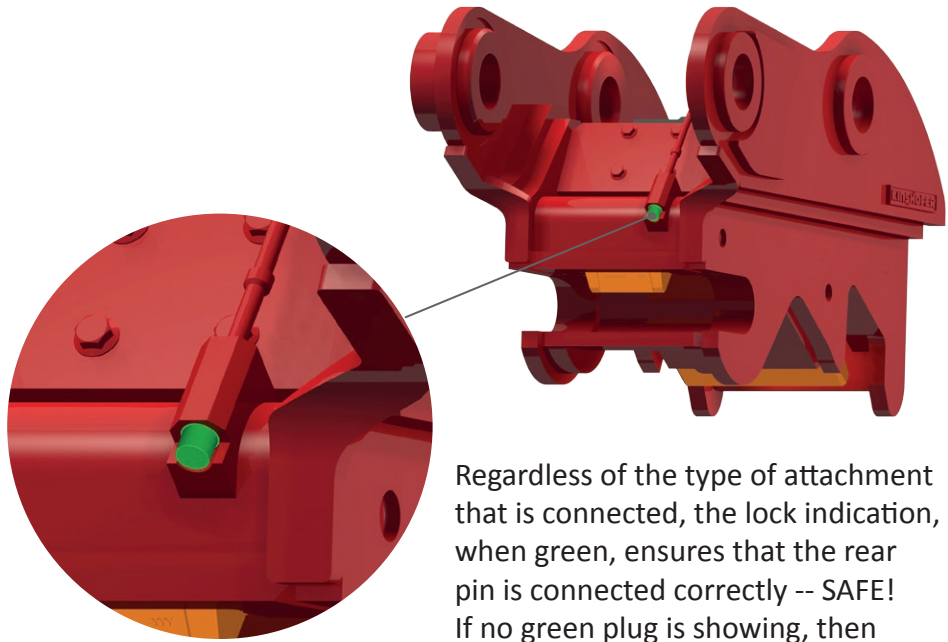
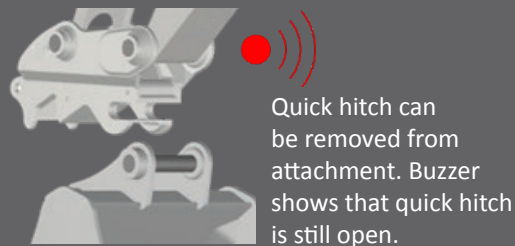
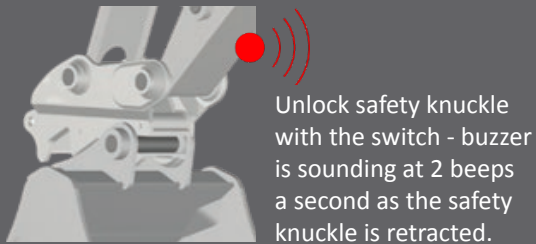
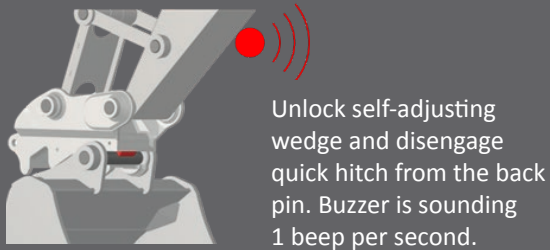


## X-LOCK™ Quick hitch to the attachment

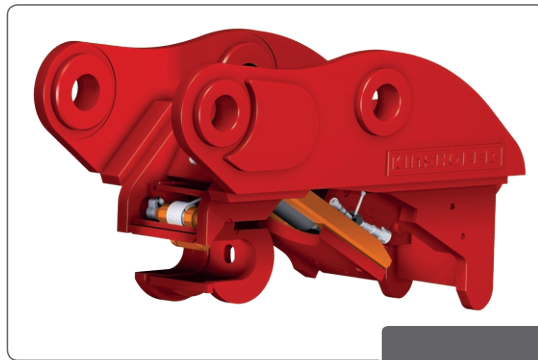
### Connect



### Disconnect



Regardless of the type of attachment that is connected, the lock indication, when green, ensures that the rear pin is connected correctly -- SAFE! If no green plug is showing, then either the wedge is not extended fully or it has not captured the back pin -- UNSAFE!  
Meets EN474-1 requirements.



Though as classified as a wedge style coupler meaning a mechanical lock is not required, the X-LOCK features the redundant RearLock safety device that ensures the wedge does not retract in the case of hydraulic failure.



Attachments available at **KINSHOFER** to pair with the X-LOCK™ Quick hitches

- Buckets (GP, HD, for rocks, ditch-cleaning, etc.)
- Rippers
- Rakes
- Mechanical grabs
- Other earthmoving and landscaping products like compactor plates, skeleton buckets, asphalt cutters
- As well as a wide variety of attachments for demolition and recycling and railroad attachments.



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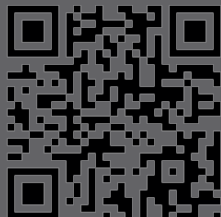
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