

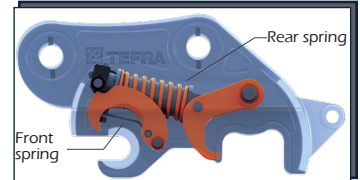
TEFRA - THE SAFEST QUICK HITCH ON THE MARKET

One of the most dangerous aspects of handling attachments - the risk of attachment separating from the Quick Hitch - is eliminated whilst using TEFRA Quick Hitch. A simple comprehensive solution of using a positive locking system rather than a gravity locking system and making the crucial safety feature 'active' and not 'passive' in the way it works, has made TEFRA the safest Quick Hitch on the market today.

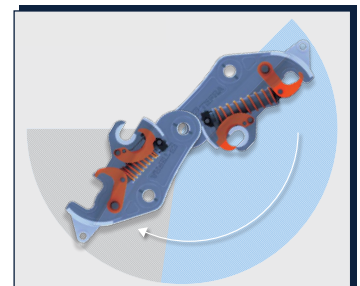
TEFRA is fully compliant with the expected requirements of the forthcoming ISO 13031 global standard and has models available to suit excavators from 3 to 60 tonnes. Quick hitches for larger excavators can be made to special order.

TEFRA components are cast, meaning lower weight and higher strength and with the following features it offers a safe operation of your attachment:

- 1** Dual Locking – Tefra locks both the front and rear attachment pins in the event of a hydraulic failure.
- 2** Simplicity – Tefra has only three moving parts, the fewest of any double locking quick hitch.
- 3** Smart Valve – ensures that the attach and release sequence cannot be performed until the quick hitch is orientated towards the operator in a crowded position. This prevents the operator from releasing an attachment in an unsafe position.
- 4** Single cylinder design – totally enclosed piston rod and no external pipes eliminates the risk of damage.
- 5** Failure Indicator – a failure condition allows limited movement of the attachment upon the quick hitch indicating a problem.
- 6** Universal pickup – quick hitch has the ability to pick up attachments from different machine manufacturers within its weight range.



2 separate powerful springs apply pressure to the hooks ensuring attachment retention at all times.



Permitted Release Zone. The Smart Valve will allow oil to flow into the cylinder so that the release procedure can commence.
No Release Zone. The Smart Valve will stop oil from flowing into the cylinder, thereby preventing the release procedure.



TEFRA

Quick Hitches



TEFRA QUICK HITCH FACTS

- TEFRA design meets or exceeds the proposed International ISO 13031 standard.
- TEFRA has Multiple Safety Locking Mechanisms:
 1. Hydraulic activation
 2. Hook shape, where the geometry of the pick up forces the hooks to stay closed
 3. Two separate powerful springs apply pressure to the hooks
- In an event of the hydraulics failing, the bucket stays on both pins through the safety systems, however the bucket will have some movement on the pins to provide indication of failure to the operator.
- Bucket cannot become detached whilst digging as the operator must intentionally go through the release sequence within the permitted release zone.
- The Smart Valve system does not allow the bucket to be detached unless in the fully crowded in position.



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