TEFRA COUPLERS

leaders in attachment safety

Introducing TEFRA Couplers

Primary Locking System

The dual safety features of the TEFRA are unique within the attachment industry.

The primary safety system consists of a uniquely designed set of hooks powered by a single cylinder and high specification hydraulic controls that lock the attachment securely into place.

The intrinsic feature of the hooks is their shape - they are individually designed to tightly hold their respective pins against the body of the Coupler. This secure and fail safe retention means the attachment stays in place in all orientations and operating conditions.

Secondary Locking System

Our Active Protection System (the APS) consists of 2 separate powerful springs that apply pressure to the hooks to ensure attachment retention at all times.

A single leaf spring applies constant pressure to the front hook. This compact and durable spring ensures the hook stays in place at all times. A coil spring serves exactly the same role in relation to the rear hook. Both springs are individually rated far in excess of any strength and safety requirements, yet they remain as light as possible in order to satisfy constant drive to create, 'strength without weight' across all product ranges.

Primary Locking System

Secondary Locking System

Smart Valve

A unique, fully patented major safety feature of the TEFRA Coupler.

The Smart Valve is a simple, patented, totally effective solution ensuring that the attachment and release sequence cannot be started until the Coupler is orientated towards the operator and close to the ground. This eliminates the possibility of an unsafe situation occurring.

The Smart Valve's compact design means it can be totally enclosed within the hydraulic cylinder at the centre of the Coupler; this protected position means it cannot be contaminated.

It requires no routine maintenance and works in conjunction with other warning systems such as audible indicators to ensure safe and easy operation

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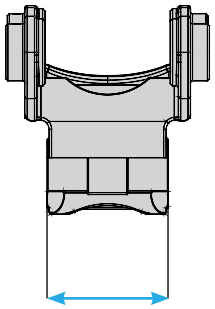
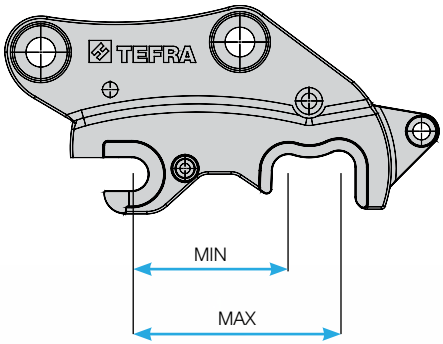
Technical Information

EXCAVATOR WEIGHT (tonnes)	BOTTOM FRAME WIDTH (mm)	PIN DIAMETER (mm)	MIN-MAX PICK UP CENTRES (mm)	WEIGHT OF COUPLER (kg)	MAXIMUM CAPACITY OF LIFTING EYE (kg)
3-4T	117	35	162-217	38	2000
3-4T	117	40	162-217	38	2000
5-6T	143	40	216-272	63	4000
5-6T	143	45	216-272	63	4000
5-6T	143	50	216-272	63	4000
3CX	160	45	330-358	72	5000
7-8T	163 / 183	45	279-356	125	5000
7-8T	163 / 183	50	279-356	125	5000
7-8T	163 / 183	60	279-356	125	5000
13T	218 / 248	60	345-435	228	8000
13T	218 / 248	65	345-435	228	8000
15T	277 / 298	70	386-510	350	12000
15T	277 / 298	80	386-510	380	12000
20T	277 / 298	80	386-510	380	12000
25T	298	80	386-510	380	12000
25T	378	90	455-572	650	17000
30T	378	90	455-572	650	17000
35T	378	90	455-572	650	17000
35T	400	100	517-650	830	21000
45T	443	100	517-650	850	21000
45T	443	110	517-650	850	21000



BOTTOM FRAME WIDTH



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