

**MONTAGE- UND BETRIEBSANLEITUNG
INSTALLATION AND OPERATING INSTRUCTIONS
INSTRUCTIONS DE MONTAGE ET D'UTILISATION**

18.03.2022

ANHÄNGEKUPPLUNG MIT NICHT DREHBAREM FANG- MAUL KU338

TRAILER COUPLING WITH NON-SWIVEL CLEVIS KU338

ATTELAGE DE REMORQUE AVEC BOUCHE D'ATTELAGE NON ROTATIVE KU338

WICHTIGE HINWEISE:

siehe separates Dokument BA_TASC_400002, www.walterscheid.com/downloads/

IMPORTATANT NOTES:

see separate document BA_TASC_400002, www.walterscheid.com/downloads/

NOTES IMPORTANTES:

voir document séparé BA_TASC_400002, www.walterscheid.com/downloads/

TRAILER COUPLING WITH NON-SWIVEL CLEVIS KU338

1. TECHNICAL DATA AND DESIGNATIONS:

DESCRIPTION:

The coupling is non-automatic flange coupling with non-swivel clevis according to ISO 6489-5 and VO (EU) 2015/208, Annex 34, figure 1d and regulation UN ECE R147, class q.

OPERATING RANGE:

For use on agricultural or forestry vehicles, self-propelled work machines or trailers.

TRAILER RINGS:

See table 1

TYPE APPROVALS AND CHARACTERISTIC VALUES:

Versions, admissible D value and a static vertical load at the coupling point in accordance with the following table:

Type/version	Admissible D-value	Admissible vertical load	Shape acc. to ISO 6489-5	pin-∅	Trailer ring acc. to ISO 5692-3	approval sign acc. to regulation R147
	[kN]	[daN]		[mm]		
KU338/28-4	42,2	1500	x	28	X	 147R-00 0024D
KU338/43-4	87,2	2500	y	43	Y	 147R-00 0023D
KU338/50-4	87,2	2500	z	50	Z	 147R-00 0023D

Table 1



NOTE:

If the valid national approval regulations of the respective country of use require additional official approvals for using these parameters, such approvals must be applied for.

For use of the coupling above the PTO, attention should be paid to the vehicle manufacturer's data regarding vertical loads.



IMPORTANT:

Attention must be paid to the D value and the maximum vertical load of the towing frame in this context. The lower value applies in each case.

FLANGES:

Flange size	Hole pattern A x B	Hole dia. C	Fastening screws
	[mm]	[mm]	
4	140x80	17	M 16
45	140x80	21	M 20

5

160x100

21

M 20

Table 2

The flange sizes corresponding to classes according directive 94/20/EG respectively regulation ECE R 55. Size 45 is a combination of size 4 and 5.

VERSIONS (= ORDER DESIGNATION):

(see figure 1)

Designations are always expressed as: KU338/BB-FF, where BB representing the type of pin and FF the flange size.

Example: KU338/43-4

KU338 = non-automatic flange coupling of the KU338 series

43 = pin diameter

-4 = flange size 4

**IMPORTANT:**

To avoid injury, protective gloves, safety glasses and safety shoes must be worn during all dismantling/ assembly actions described in this chapter.

Environment:

Lubricants can enter the environment. Environmental pollution: Collect, store and correctly dispose of lubricants in suitable containers.

2. INSTALLATION:

(see figure 1)

**NOTE:**

The pertinent regulations (e.g. Accident Prevention Regulations for Vehicles) and the attachment guidelines of the vehicle manufacturers must be observed when installing the coupling!

The attachment of the coupling to the vehicle must be carried out in accordance with the requirements of regulation (EU) 2015/208, Appendix 34.

**NOTE:**

Official national regulations must be observed. For example: in Germany the obligations §13 FZV regarding the data in the car license concerning the permissible trailer weight as well as the permissible vertical load must be considered.

ATTACHMENT OF THE COUPLING:

The coupling is attached to the vehicle by means of 4 bolts according to ISO 4762. A torque wrench must be used to obtain the correct tightening torque. Normally the bolts are not included in the scope of supply. Therefore the data of the vehicle manufacturers are to be preferred for attachment.

If there are no specifications see separate document BA_TASC_400038, www.walterscheid.com/downloads/

3. OPERATION:

(see figure 1)

**WARNING:**

The pertinent safety regulations must be observed when coupling and uncoupling. No one may stand between the vehicles. The coupling may only be operated in locked condition.

When coupling and uncoupling, the drawbar must be as horizontal as possible relative to the coupling.

3.1 COUPLING AND OPENING THE COUPLING:

Use supporting jacks or similar to stop the trailer rolling away. The coupling and uncoupling occurs by introducing respectively removing the coupling pin (2) into respectively out of the hole of the clevis (1). The coupling pin has to be secured against unintentional removing or losing. This will be achieved by locking with a spring pin (3). Never uncouple if the trailer is under tension or pressure. The trailer ring of the drawbar must always hit the cone of the clevis (2) when backing-up the tractor. Otherwise, the clevis, the trailer ring and the coupling mechanism may be damaged.

3.2 UNCOUPLING:

The vehicle with trailer must be parked in a position without obtaining pressure on the coupling device. Removing the coupling pin as described under 3.1. Disconnect the trailer by moving the vehicle forward. Secure the coupling pin in the clevis as described under 3.1.

The trailer coupling may be operated only in locked condition!

4. MAINTENANCE

(see figure 1)

4.1 CARE

- > If possible, avoid cleaning with a pressure washer. If this is unavoidable, re-grease the coupling.
- > Any dirt and corrosion must always be cleaned off the coupling in order to guarantee correct operation. All moving parts of the coupling must be lubricated regularly (depending on the length of use) and checked for easy movement.

4.2 CHECKS

1. Coupling pin (2):
Clean the coupling pin and measure its diameter of the coupling pin. The coupling pin must be replaced if the dimensions are below the limits of table 3.
2. Clevis (1):
Measure pin hole in clevis, in case of exceeding the wear limit of table 3, the coupling must be replaced.

Type / Version	Pin-Ø	Wear limit pin	Pin hole-Ø	Wear limit pin hole
	[mm]	[mm]	[mm]	[mm]
KU338/28-4	28	26	29	31
KU338/43-4	43	41	44	46
KU338/50-4	50	48	51	53

Table 3

**IMPORTANT:**

Use only original Walterscheid spares when replacing parts. If the vehicle owner does not have the appropriate skilled workers and the necessary technical equipment, the replacement may only be performed by a specialist workshop.

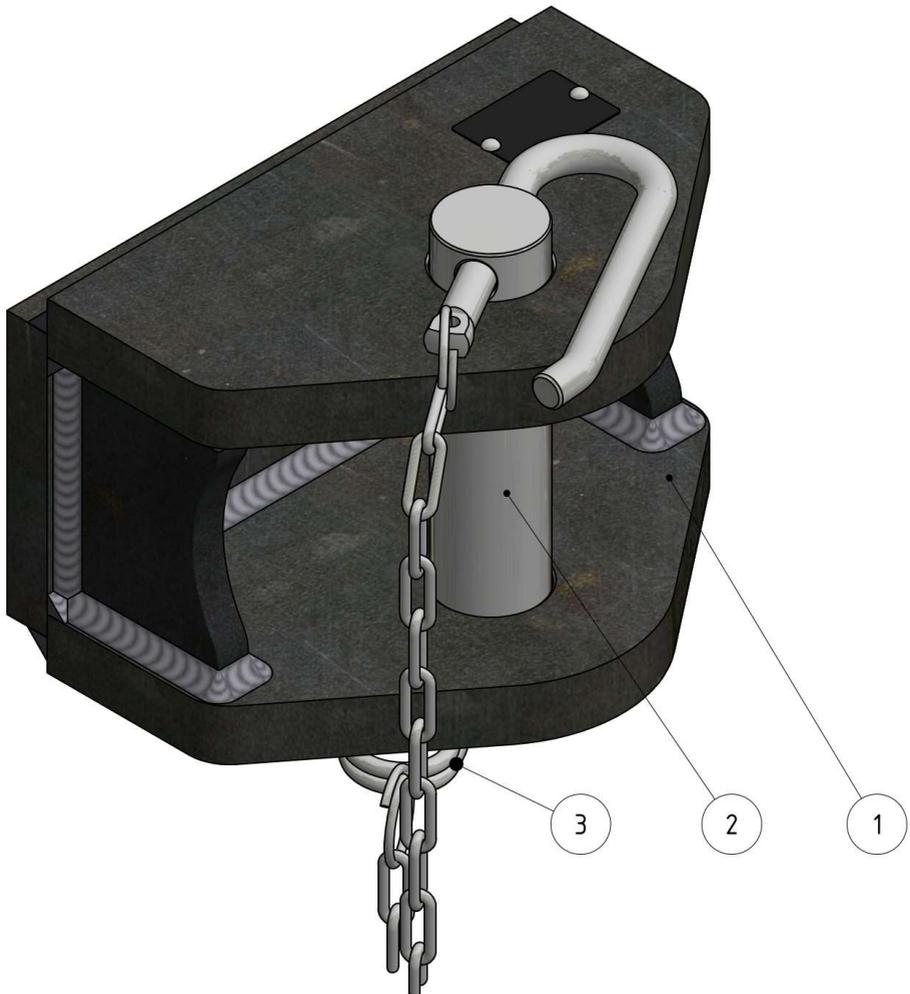
**WARNING:****SAFETY NOTES:**

- > The user is obliged to always operate the coupling in perfect condition and to forbid its use by unauthorised persons.
- > The loads indicated on the type plate may not be exceeded.
- > Unauthorised conversion or modification of the coupling is not permitted.

5. CALCULATION OF CHARACTERISTIC VALUES FOR CORRECT OPERATION OF THE COUPLING ON AGRICULTURAL AND FORESTRY VEHICLES

See attachment or separate document BA_TASC_400029, www.walterscheid.com/downloads

BILD 1
FIGURE 1



Beispiel/Example/Exemple:
KU338/43-4

Legende:

- 1..... Kupplungsmaul
- 2..... Kuppelbolzen
- 3..... Federstecker

Legend:

- 1 clevis
- 2 coupling pin
- 3 spring pin

Légende :

- 1 Bouche d'attelage
- 2 Axe de couplage
- 3 Goupille