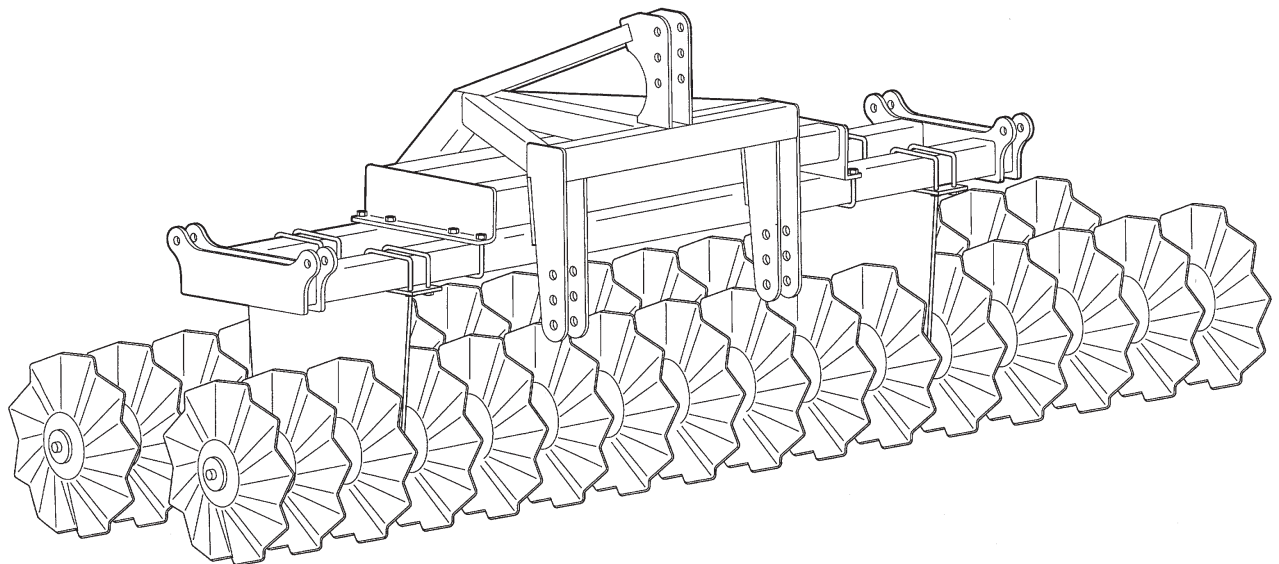


# FRONT TERRA-C



**Operating instructions**

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## Introduction

The KONGSKILDE Front Terra-C is a machine for soil cultivation, which is used at the front lift of a tractor with lift arms CAT II.

The Front Terra-C is suitable for cutting clods into smaller pieces, and for working residues into the soil.

The Front Terra-C can be used under 2 conditions:

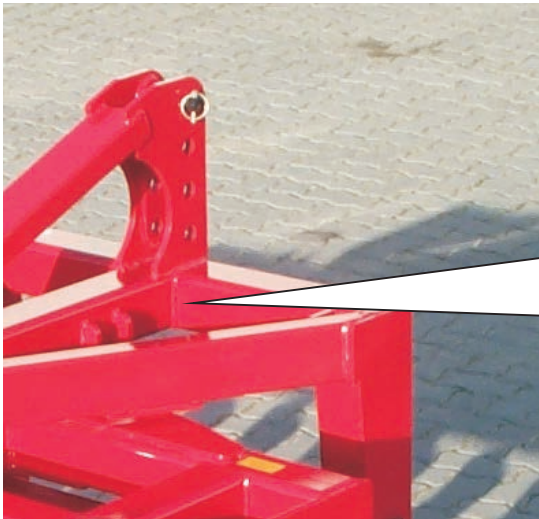
- ! In ploughed soil for breaking clods and for reconsolidation.
- ! In a reduced tillage system for incorporating residues into the topsoil and to level the surface before drilling.

The Front Terra-C can be equipped with a levelling board in front (optional equipment) to improve the levelling performance of the Front Terra-C.

## Product Details

## Identification

The specifications of the Front Terra-C are located on the type plate. This is located on the inside of the frame for the head stock near the fixation hole for the top link.



Please note the specifications from the type plate:

Type: \_\_\_\_\_

Name of implement.

No.: \_\_\_\_\_

EDP identification number.

Serial: \_\_\_\_\_

The serial number for the specific implement.

For any queries regarding the Front Terra-C and for ordering spare parts, please quote the above specifications.

The numbers for the spare parts can be found in the spare parts list.

# Safety



## General safety advice

- ! Before commissioning the Front Terra-C read the operating instructions and safety advice. It is mandatory to stick to the safety advice and the warnings stated in the manual. The manufacturer declines any responsibility for accidents and damages to the Front Terra-C resulting from failure to apply safety advice.
- ! The Front Terra-C should only be used, maintained and repaired by persons, who are familiar with the safety advice and who are informed about the dangers.
- ! General safety advice and the regulations for the prevention of accidents must be observed.
- ! The safety instructions must be passed on to other users.

## Coupling and uncoupling

- ! Be careful when coupling or uncoupling implements to and from the tractor. Do not stand between tractor and the Front Terra-C, when the tractor is moving.
- ! Fasten the implement only at the provided points.
- ! **Do not use fully mounted cultivators together with tracked tractors. Damages on fully mounted cultivators caused by the use of tracked tractors are not covered by the normal warranty conditions of Kongskilde.**
- ! Check and attach transport equipment, for example lighting equipment, warnings and possibly safety equipment.
- ! Observe the tractor's operating instructions.

## Three point hitch

- ! The attachment category for the three point hitch on the tractor and the implement have to match properly, or the appropriate adjustments must be made!
- ! Before coupling or uncoupling implements to the three point hitch, put the operating mechanism into a position which will prevent any accidental lifting or lowering!
- ! While the implement is in transport position, ensure sufficient locking at the side of the three point linkage!

## Operation

- ! Before each use, check the implement and the tractor as to their road and operational safety!
- ! Before starting work, familiarise yourself with all facilities and operating elements. It is too late to do so during work activities!
- ! Examine work surface for hidden obstacles which could pose a risk (for example under-ground cables, pipes).
- ! Adjustments should only be made on the implement when it is completely parked in working position and when the engine of the tractor is switched off. Remove ignition key and apply hand brake!
- ! Wear tightly fitting work clothes. Avoid loose clothes which could be caught in movable parts.
- ! Wear strong shoes or preferably safety shoes.

- ! Unauthorised persons are not allowed to stay in the working area during work. No work is to be carried out, if there are unauthorised persons, especially children, in the vicinity of the Front Terra-C or in the danger zone of collapsible parts without keeping a safe distance.
- ! It is prohibited to allow any person to ride on the Front Terra-C.
- ! Never work diagonally to inclines or slopes, where there is a risk that the tractor will overturn.

### **Transportation by road/transport**

- ! When using public traffic routes, observe the regulations specific to the particular country.
- ! Never use public roads, if the admissible transportation width of 3 m is exceeded.
- ! The attachment of implements should not exceed the admissible total weight, the admissible axle load and the weight-bearing capacity of the tractor tyres.
- ! To ensure the ability to steer, the front axle load should always amount to at least 20% of the unladen weight of the tractor.

### **Before driving**

- ! Observe admissible axle loads, total weights and transport measurements.
- ! Performance, ability to steer and brake is influenced by attached or coupled implements and ballast weights. Ensure that there is sufficient ability to steer and brake.
- ! Before starting off and using the Front Terra-C, check the immediate area. Pay special attention to children and that there is sufficient visibility.
- ! For road transportation with the implement raised, lock the control valves of the tractor.
- ! Fix the interlock bolts on the head stock in the middle position to ensure a firm position of the Front Terra-C during road transport.

### **During transportation**

- ! Riding on the implement during work and transport is not permitted.
- ! Never leave the driver's cab during transportation.
- ! When driving around corners and bends take the extra width and/or the inertia of the Front Terra-C as well as any attached roller(s) or PTO-implement into consideration.

### **After transportation**

- ! Before leaving the tractor, set the implement down onto the ground, switch engine off, remove ignition key and apply hand brake.
- ! No one should stand between tractor and implement without securing the vehicle by the hand brake and/or a chock.
- ! Before operating in the field, remove the interlock bolts at the head stock to make the Front Terra-C floating during work.

### **Maintenance**

- ! Repairs, maintenance and cleaning work as well as the solving of functional faults should principally only be carried out, while the engine is switched off. Remove ignition key and apply hand brake.
- ! For maintenance on a raised up implement, always secure the Front Terra-C on suitable stands.
- ! When changing work tools, which have cutting edges, use suitable tools and gloves.
- ! Spare parts should correspond at least to the technical requirements defined by the manufacturer. Use only original parts.

## Safety decals

1






**Instructions**

**Read and observe the operating instructions!**

**Before commissioning the disc cultivator, read and observe both operating instructions and safety advice!**

**Order No.: 71 000 187 250**

2

**Danger of crushing**

**Never reach into the danger zone, as long as there could be moving parts.**

**Order No.: 71 000 689 549**

3

**Danger rotating concave discs**

**When concave discs are rotating, keep sufficient distance.**

**Order No.: 71 000 629 547**




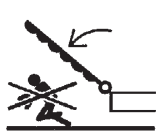

4

**Moving Parts**

**Do not stand near the collapsible frame of the Front Terra-C.**

**(Foldable version only)**

**Order No.: 71 000 629 546**

5

MACHINE MUST BE  
PARKED IN WORKING  
POSITION

LA MACHINE DOIT  
ETRE DEPOSEE EN  
POSITION TRAVAIL

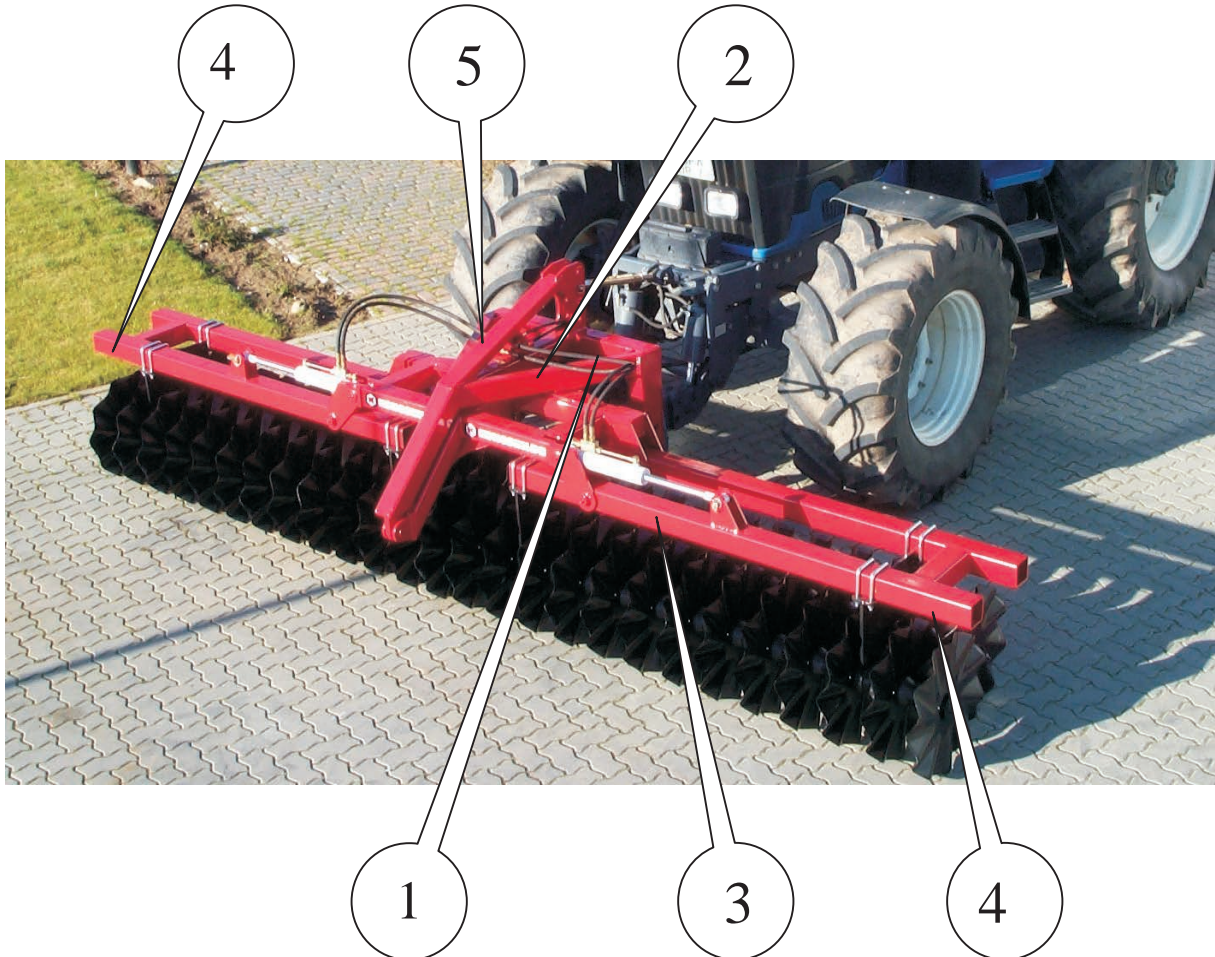
MASCHINE NUR IM  
ABGESENKTEN  
ZUSTAND PARKEN

**Park in lowered position**

**The disc cultivator must only be parked in working position.**

**Order No.: 71 000 646 708**





**Always keep safety advice labels always in clean and readable condition!**

**Request substitutes for damaged or missing labels from the dealer and place in the intended position.!**

## Coupling of the Front Terra-C

Ensure that during coupling of the Front Terra-C, no one is standing between the tractor and the implement. No one should stand in the operational range of the implement.

The three-point attachment category on the Front Terra-C and tractor must match with each other.

If they do not correspond, the three-point linkage on the tractor must be adjusted.

Make sure that the Front Terra-C is parked on solid ground and secure it against rolling.

Lower the front lift of the tractor and drive straightway under the couple bolts of the lower link.

Raise the lift until the hooks are hooked in.

Put in the top link and secure all connections against unintentional opening.

Make sure the hydraulic fittings are clean and connect the hydraulic hoses (foldable version or version with hydraulic adjustment of levelling board only).

### Attention!

- ! While hitching up the Front Terra-C, stop the tractor and secure it from rolling.
- ! Don't step between the tractor and the Front Terra-C while hitching up - danger of accident!

## Uncoupling of the Front Terra-C.

Park the Front Terra-C on solid ground.

Unfold the Front Terra-C (hydraulic foldable version only).

Uncouple the hydraulic hoses from the tractor (foldable version or version with hydraulic adjustment of levelling board only).

Remove top link from the Front Terra-C.

Lower the lift arms until free of the implement hitching points.

Drive tractor slowly backwards.

## Road transport

Pay attention to the following points before driving on public roads:

- ! The tractor must be suitable for the Front Terra-C.
- ! The local traffic rules must be followed.

After the machine is hitched up and secured, fix the interlock-bolts of the front linkage on middle position.

Hitch up the machine as far as it is necessary to ensure a safe road transport.

### Attention!

The driving behaviour of the tractor changes. Suit your driving according to the conditions of the street.

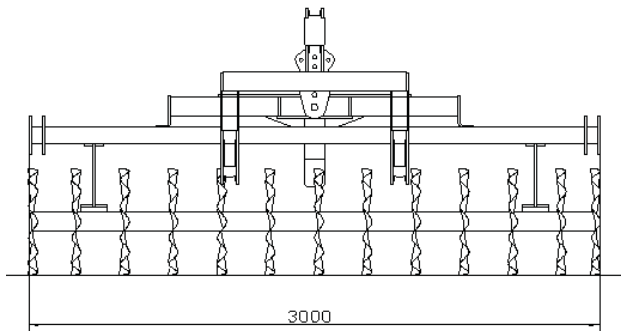
Pay special attention to the centre of gravity of hydraulic foldable machines.



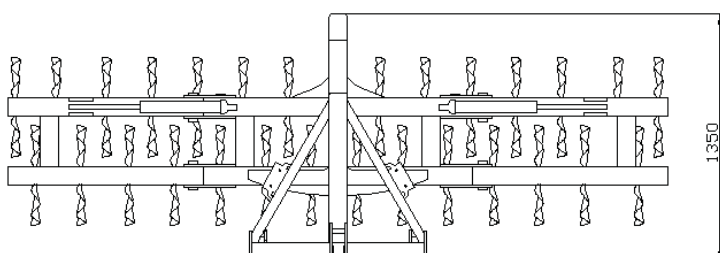
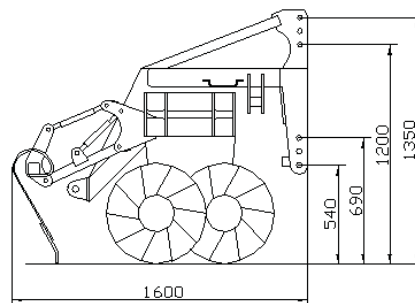
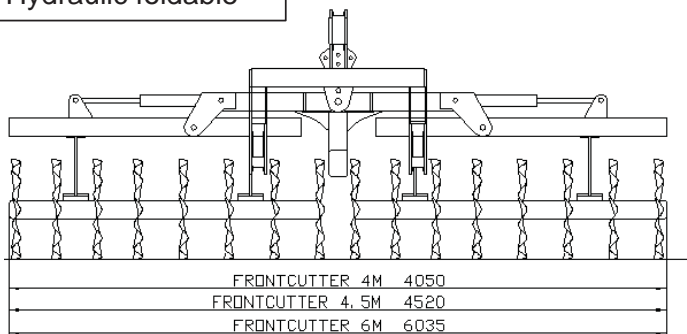
## Technical data

|   | 3-m    | 4-m hydr.<br>foldable | 4,5-m hydr.<br>foldable | 6-m hydr.<br>foldable |
|---|--------|-----------------------|-------------------------|-----------------------|
| <b>Working width</b>                            | 3 m    | 4 m                   | 4,5 m                   | 6 m                   |
| <b>Transport width</b>                          | 3,0 m  | 3,0 m                 | 3,0 m                   | 3,0 m                 |
| <b>Weight</b>                                   | 995 kg | 1220 kg               | 1320 kg                 | 1615 kg               |
| <b>Diameter of discs</b>                        | 550 mm | 550 mm                | 550 mm                  | 550 mm                |
| <b>Number of discs</b>                          | 32     | 42                    | 48                      | 64                    |
| <b>Number of bearings</b>                       | 6      | 8                     | 8                       | 12                    |
| <b>Levelling board<br/>(Optional equipment)</b> | 217 kg | 290 kg                | 325 kg                  | 434 kg                |

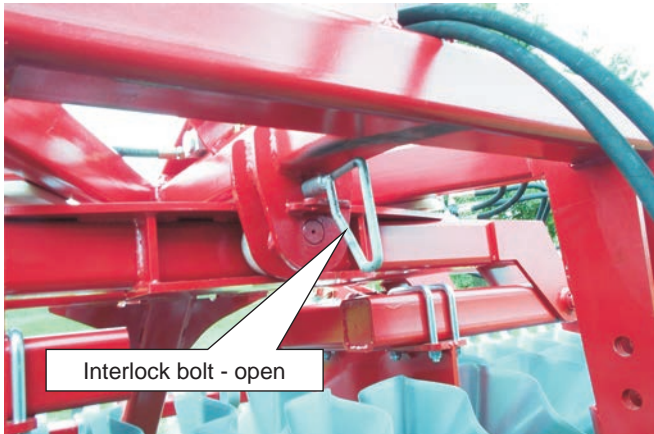
3 meter rigid. Other dimensions as foldable



Hydraulic foldable

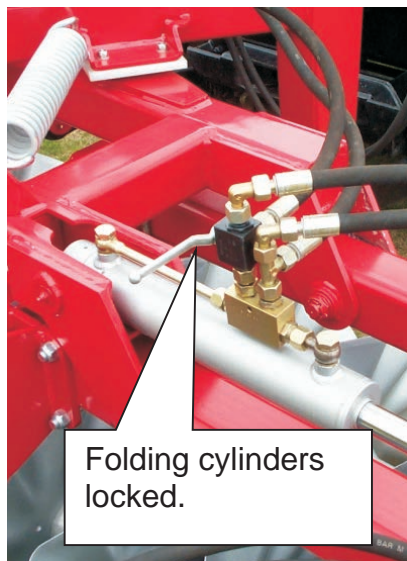


## Operation

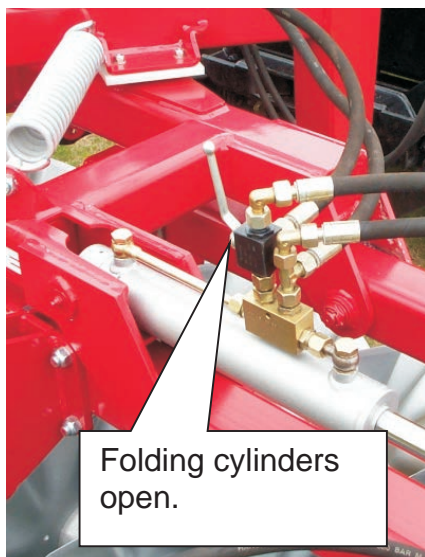


### Adjustment and use of the Front Terra-C

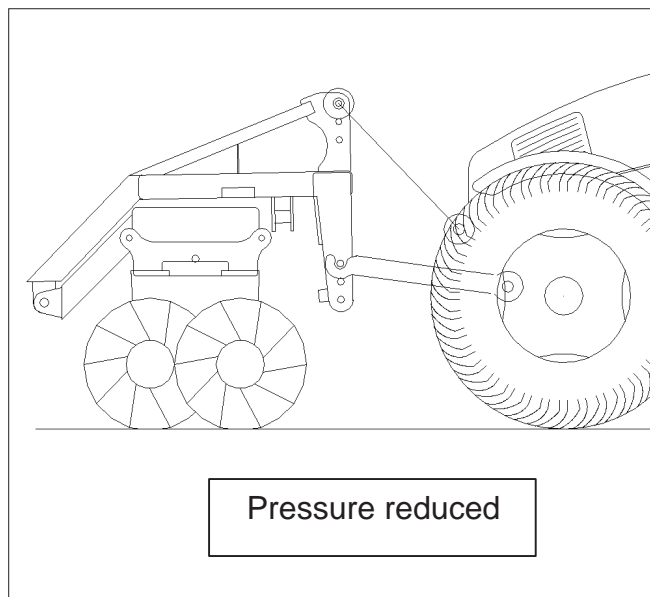
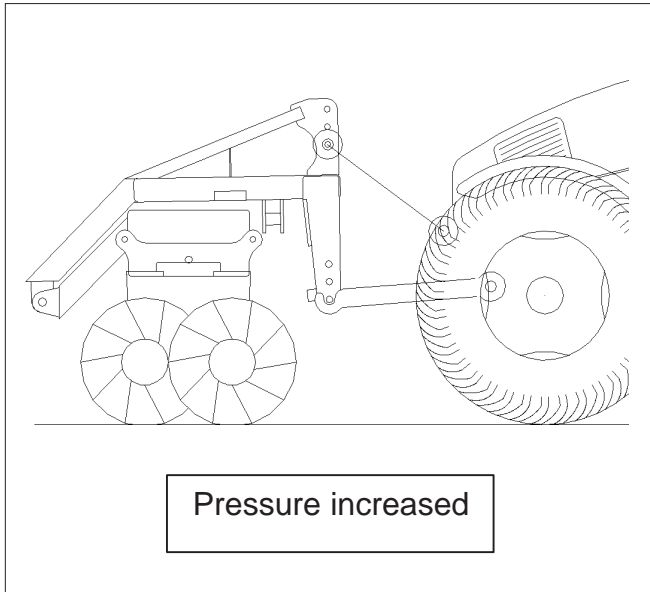
Before beginning the work, open and lock the interlock bolt to vertical position as seen below, at the front linkage to make the Front Terra-C floating.



Hydraulic foldable versions have a valve at the folding cylinders for closing the hydraulic system and thereby working as a safety device. After folding the Front Terra-C for e.g. road transport, the valves should be put in locked position. The same valves are used, when having hydraulic adjustable levelling board (optional equipment) In this case the locking position of the valve is the position where the levelling board is operated.



Open the valve and unfold the Front Terra-C (hydraulic foldable versions only) and lower it.



Adjust the Front Terra-C with the top link in such way that the front disc shaft runs a little higher than the rear one (approx. 10-20 mm). During the work the front lift should be adjusted in floating position.

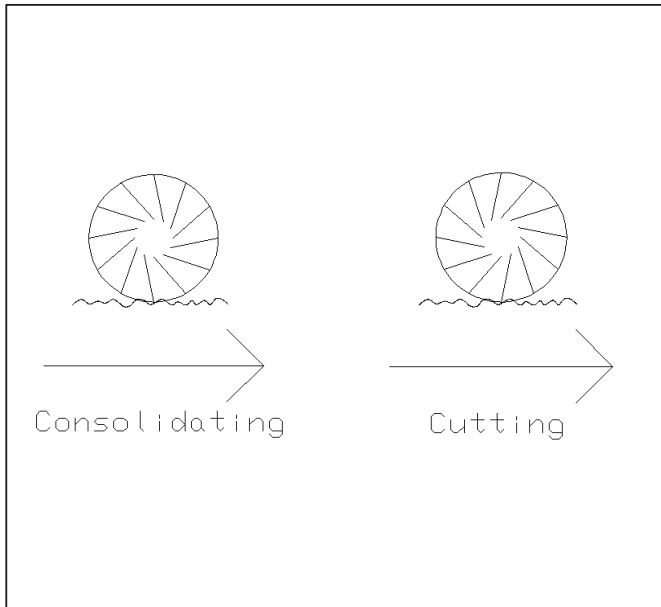
It is not allowed to establish a hydraulic weight transfer from the tractor to the Front Terra-C, as the Front Terra-C will not be able to operate freely and the tractor will lose its steering ability.

If desired, it is possible to have a little more pressure on the Front Terra-C by adjusting the lower links of the 3-point-linkage of the tractor in a lower position at the front linkage of the machine.

If the lower lift arms of the 3-point-linkage point downward from the tractor to the Front Terra-C, pressure from the tractor is transferred to the Front Terra-C.

If the lower lift arms of the 3-point-linkage point upward from the tractor to the Front Terra-C, the pressure on the Front Terra-C is reduced.

## Setting the direction of the cutter roller



The Kongskilde cutter roller 550mm is useable in two directions of movement.

- ! Passive direction, less soil cutting, more consolidation.
- ! Active direction, more soil cutting, less consolidation.

As standard all cutter rollers are mounted passive.

The sketch shows the setting. The arrow is indicating the direction of driving.

If desired, the cutter rollers can be converted from passive to active and visa versa.

This is made in the following way:

- ! Loosen the U-bolts connecting the rollers to the roller frame.
- ! Reverse the entire roller.
- ! Attach and tighten the U-bolts.



U-bolt

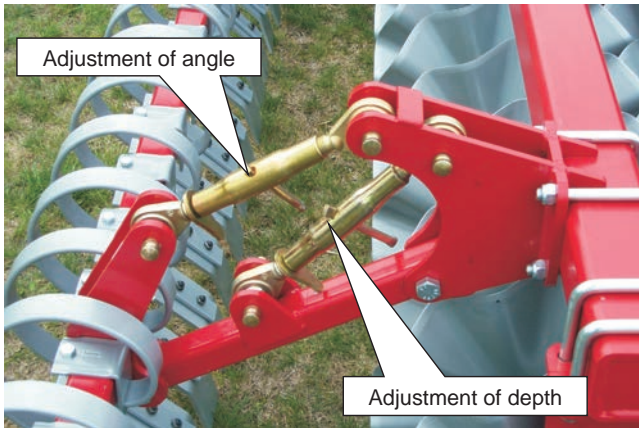
## Levelling board

The KONGSKILDE Front Terra-C can be equipped with a levelling board (optional equipment)

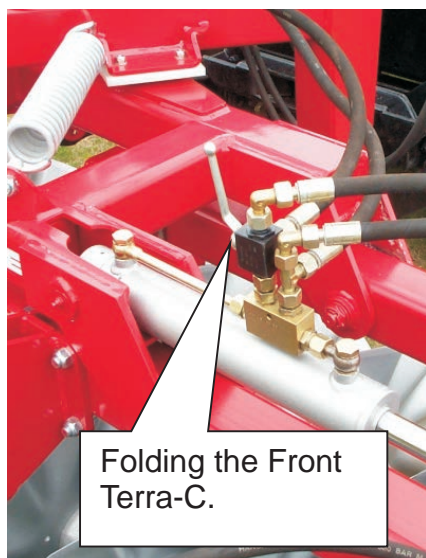
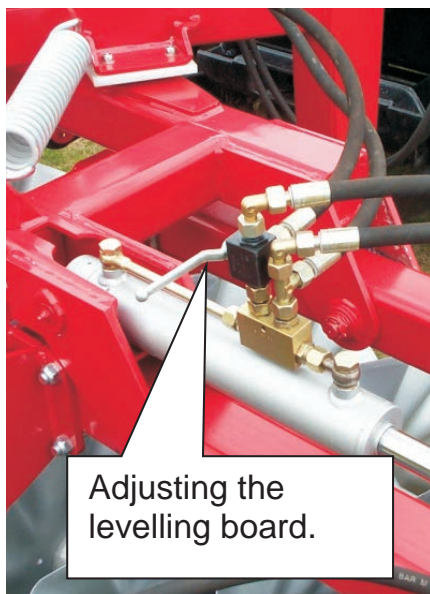
With the levelling board, the soil can be further levelled. Parts of the clods will be reduced into smaller pieces.

Spindles adjust the working depth and the angle of the levelling board.

Adjustment of angle by hydraulic cylinders is available as optional equipment.



The hydraulic adjustment of the levelling board (optional equipment) does not require additional hydraulic connections on the tractor. The position of the valve placed on the folding cylinders decides the operation.





# Transportation by Road/Traffic Safety

## Traffic safety

- ! When using public traffic routes, observe the regulations applicable in the particular country!

## Weight



**The attachment of implements must not exceed the overall admissible weight, the admissible axle load and the weight-bearing capacity of the tractor tyres.**

**To ensure the steering ability, the front axle load should always amount to at least 20 % of the unladen weight of the tractor.**

## Before driving:

- ! Observe admissible axle loads, overall weights and transport measurements!
- ! Road behaviour, ability to steer and brake are influenced by the attached or coupled implements and ballast weights. Ensure sufficient ability to steer and brake!
- ! Before starting to drive and use the Front Terra-C, check the immediate area. Pay special attention to children and that there is sufficient visibility!
- ! For road transportation with the implement raised, lock the control valves of the tractor and for a Front Terra-C, which are hydraulically collapsible, close the valves on the folding cylinders..

## During Transportation:

- ! Riding on the implement during work and transport is not permitted.
- ! Never leave the driver's cab during transportation!
- ! When driving around corners and bends take the extra width and/or the inertia of the Front Terra C as well as the high centre of gravity of the folded frame into consideration.

## After transportation:

- ! Before leaving the tractor, set the implement down onto the ground, switch engine off, remove ignition key and apply hand brake!
- ! No-one should stand between tractor and implement without securing the vehicle by the hand brake and/or a chock!
- ! Collapsible frame parts should be completely lowered down. The implement should only be parked with lowered frame parts and the stop cock shut.

## Transportation width

For transportation on any public road, track or place, the legal transport width according to local rules should not be exceeded. If the transport width is exceeded, a special authorisation may be obtained under certain conditions from the appropriate authorities

## Transport security

Hydraulic foldable frame parts must be secured for transportation on public roads against any accidental folding out by turning the stop valve the implement to the close position.

### Note:

The locking device on the hydraulic cylinders prevents from accidental folding in case of a defect in the hydraulic hoses. However, it does not prevent unintentional folding if the control device is operated by mistake.

**Never drive with the frame folded up, while the stop valves are open.**



## Maintenance

### General



The KONGSKILDE Front Terra-C needs very little maintenance.

After usage clean the machine.



All nuts and bolts must be checked for tightness after 10 working hours initially, then after every 100 working hours. Tighten if necessary.



Worn and damaged parts must be changed at the earliest possible moment in order to secure correct and safe function.



Use only original KONGSKILDE wearing spare parts!



### Lubrication

Rollers, grease for every 20 hrs

Folding joints (hydraulic foldable version only),  
grease for every 20 hrs.  
Cylinder joints (hydraulic foldable only), grease  
for every 100 hrs.

