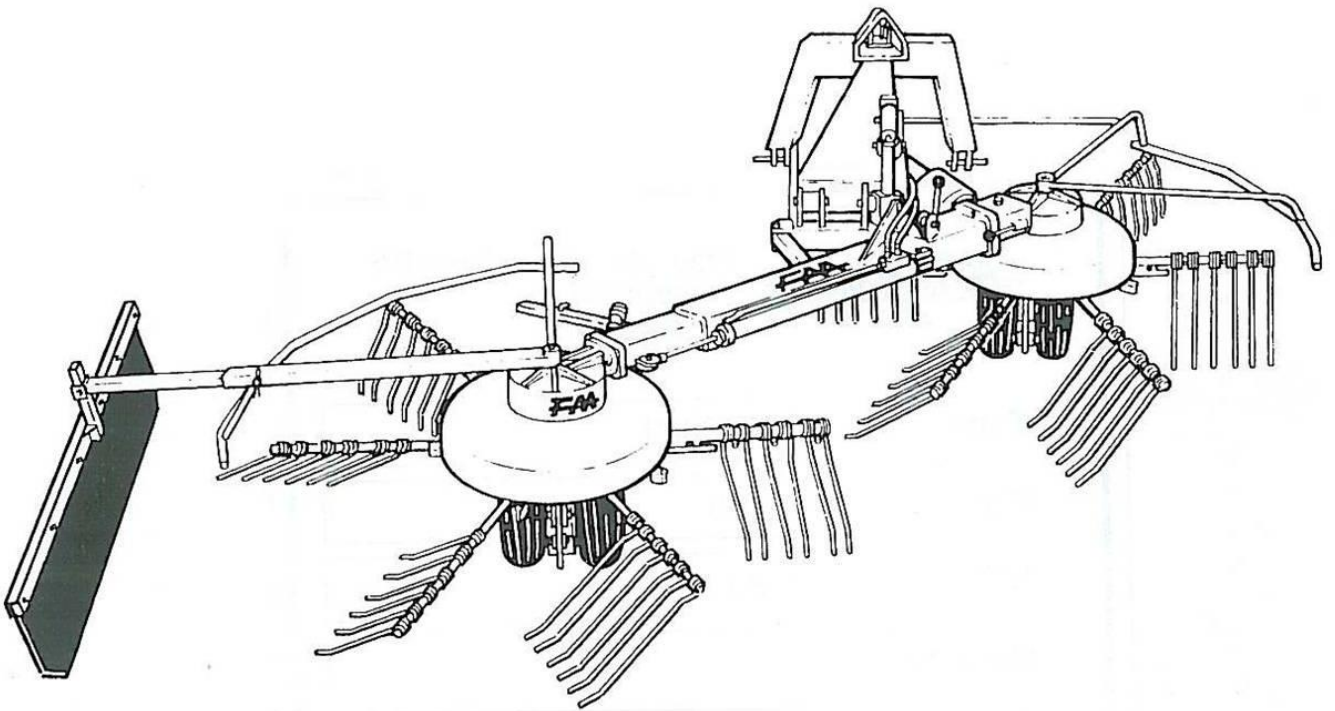


Fransgård

Manual

GB



Universal Haymaker

TI-6000

Fransgård

Fredbjergvej 132, Denmark-9640 Farsø www.fransgard.dk

Model	TI-6000
Kg.	790
KW	60
Serie nr.	



Made in Denmark

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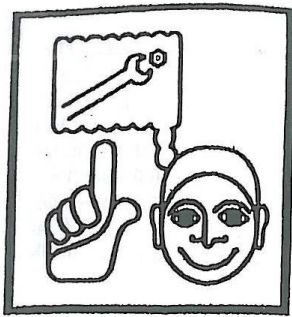
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TECHNICAL SPECIFICATIONS

Working width	4,20-6,20 m./13,8-17 ft
Transport width	2,40 m./7,8 ft.
Working speed, max.	10-15 km/h./7-10 mph
Capacity	4-8 ha/h./10-20 acres/hr
Power requirement	80 HP/60 kw.
PTO	max.400-540 rpm.
Tyre size	16,5x6,5-8/6 ply.
Weight	790/700 kg.-1740/1540 lbs
Number of tines	12/36-12/24 pcs.



SAFETY PRECAUTIONS

It is the owner's responsibility to instruct all equipment operators and support personnel in the operation of machine.

Do not operate this machine until the owner's manual has been completely read and understood. New owner's manual are available from your dealer or the factory phone + 45 98 63 21 22. All screens must be correctly positioned and checked before the machine is started. It is dangerous to remain in the machine's working area while its working parts are rotating. Keep hands, feet and clothing away from power driven parts! Do not leave the tractor running unattended.

Disengage the PTO and turn the tractor off before you service the machine.

The machine is made to work in hay and straw crops, and may not be used for anything else.

The machine may only be operated by qualified operator.

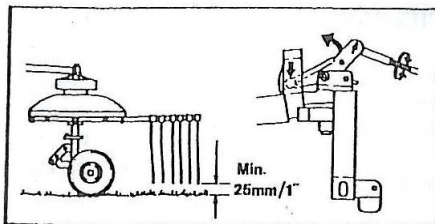
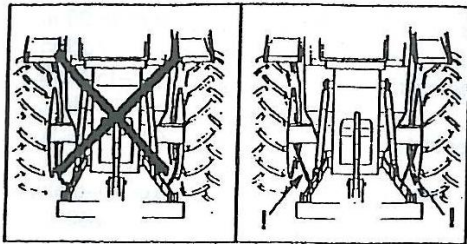
Familiarize yourself with the controls and how to stop the machine and tractor in an emergency.

Do not let children or incapable persons operate the machine.

Machine lubrication, adjustment and setting may only take place while the machine is not in use and while the power take-off is switched off.

Remove the keys so the tractor cannot be started up accidentally. Retighten bolts and check adjustments after approx. 5 hours of operation.

Only use original Fransgård spare parts.



INTRODUCTION

The Fransgård Combirake model TI-6000 is one of the fastest and most effective combirakes on the global market, and has all the working functions. A combirake which can rake into central, side and double swaths, as well as being able to spread.

For tedding, the rake arms are in the locked position, and the machine leans forward to level the material evenly.

For raking up, the rake arms are cam-track controlled so in the fact that the tines tilt upwards, allowing the material to be treated very gently.

The rake high can be set by raising or lowering the wheels by means of a bolt (41431). The rake should be stopped and raised using the tractor lift before this adjustment is made.

When driving with the top-link attachment in floating position, the bolt (42400) has to be removed and the top bar adjusted as shown in the illustration.

The machine is fitted with balloon tyres with a wide bearing surface. The rotor speed and forward speed of the tractor must be selected on the basis of the type and state of the crop.

PTO: Tedding and turning over, 400-max. 500 rpm.

PTO: Raking up, 350-max. 400 rpm.

ASSEMBLY

Mount the intermediate frame (42407) on the main frame (42508) with bolt (42413), then mount the cotter (741190285) and the bolt (42452) with cotter pin (1210075), after which mount three-point suspension (42505) on intermediate frame (42407) with bolt (42506) and cotter (741190155).

Mount the top-link attachment (40401) on the three-point suspension (42505) with bolt (41463), bolt (42400) and cotter pin (1210075).

Mount support leg (42404) with bolt (15558) and split pin (1220040).

Mount cylinder (42411) with bolts (42412) and cotter (741190215). Mount the wheel, which are assembled complete with mounting, on the machine with bolt (41431) and cotter pin (1210060). □ □

Now mount hydraulic hose (42417) on small cylinder (42411) with hexagon nipple (42419) and copper washer (42418).

Fit hydraulic hose (42448) to large cylinder (42451) in same way. Take note of two different sizes of hydraulic hose and take them through brackets on three-point suspension (42505) and intermediate frame (42407).

Assemble protective bracket (42454) and protective mounting (42458) with bolts and nut (740205125, 74020010, 740080145), then mounting (42488), mounting (42489) and mounting (42458) with bolts (15558) and split pin (1220040).

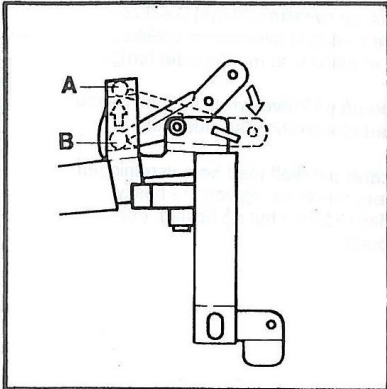
When mounting is complete, fit on machine's left gearbox with bolt (740210400), sprocket (740770030) and washer (42457).

Keep protective bracket (42454) in place by means of mounting (42456), bolt (42455) and split pin (1220040). Assemble protective bracket (42493) and protective mounting (42494) with bolt (740210405) and lock nut (740420012). Then fit complete mounting on machine's right gearbox with bolt (740210400), sprocket (740770030) and washer (42457). Keep protective bracket in place by means of retainer (42492) and split pin (1220040).

Mount the PTO shaft. Mount the fitting with tines.

The machine is set in working position 1. at the factory.

See also the mounting/spare parts drawings on the following pages.



WORKING POSITION

The TI-6000 combirake has two work settings for the three-point suspension:

A: Top-link attachment in fixed position.

B: Top-link attachment in floating position.

When driving on slopes and hillsides etc., it is best to have the three-point suspension in the fixed position (A :).

The TI-6000 combirake has four different working positions:

POS.1: RAKING INTO SIDE SWATHS

When raking to the side, the machine always runs at an angle behind the tractor (adjust bolt 42452). The rotors rotate in the same direction (lever on reversing gear 42509) **and are engaged in the reversing gear in such a way that the pick-up springs cannot touch**, while the rake arms run in the cam guide.

Adjust the cam guide (42440) as shown in the illustration for pos.1. Adjust the wheels so in the fact that they run parallel the direction of travel.

The right-hand protective bracket should have been fitted, while the left-hand protective bracket should be fitted and adjusted in the central hole on the mounting (42456).

Adjust the catch arm to the required swath using the mounting (42489).

POS. 2: RAKING INTO 2 SWATHS

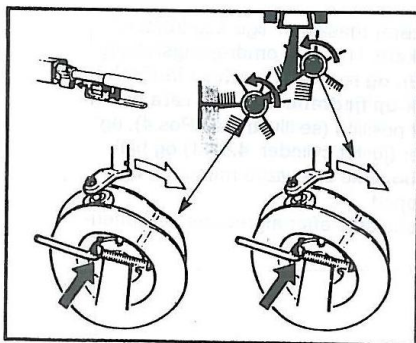
When raking into double swaths, adjust the machine to the maximum working width (cylinder 42451) and have the rake running straight behind the tractor (adjust bolt 42452). The rotors rotate in the same direction (lever on reversing gear 42509) and the rake arms run in the cam guide.

Adjust the cam guide (42440) as shown in the illustration for pos.2. Adjust the wheels so in the fact that they run parallel to the direction of travel. The right-hand protective bracket should have been fitted, while the left-hand protective bracket should be fitted and adjust in the outermost hole on the mounting (42456).

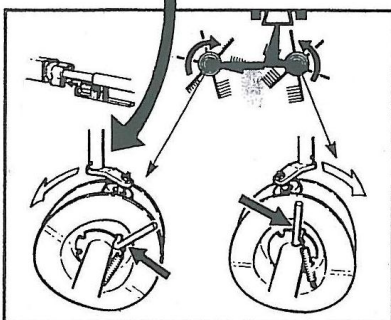
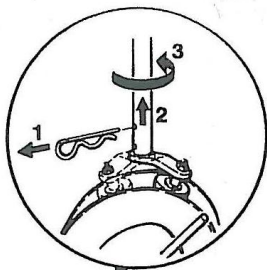
Adjust left-hand swath width using the mounting (42489).

POS. 3: RAKING INTO CENTRAL SWATHS

When raking into central swaths, the machine always run straight behind the tractor (adjust bolt 42452). The rotors rotate in opposite directions (lever on reversing gear 42509) **and are engaged in the**



POS. 1



POS. 3

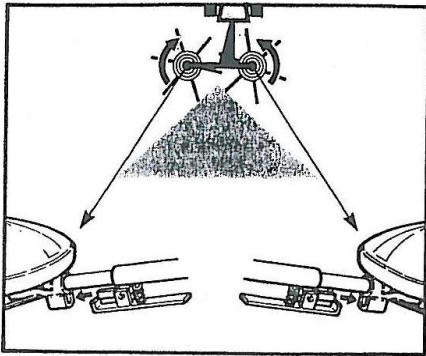
reversing gear in such a way that the pick-up springs cannot touch, while the rake arms run in the cam guide.

Turn the mounting for the rake arms (42480) on the left-hand rotor trough 180° (see illustration for pos.3). Remove splint pin (42479) then pull rake arm mounting back and turn. Then pull the mounting for the rake arms back and turn, thereby making room to fit the previous mounting in the cam guide.

The mountings should be turned at the highest level of the cam guide. Turn the rake arms to the correct working position (see illustration for pos.3).

Adjust the wheels so in the fact that they run parallel to the direction of travel.

The right-hand protective should have been fitted, while the left-hand protective bracket should be fitted and adjusted in the outermost hole on the mounting (42456). Remove the catch arm.



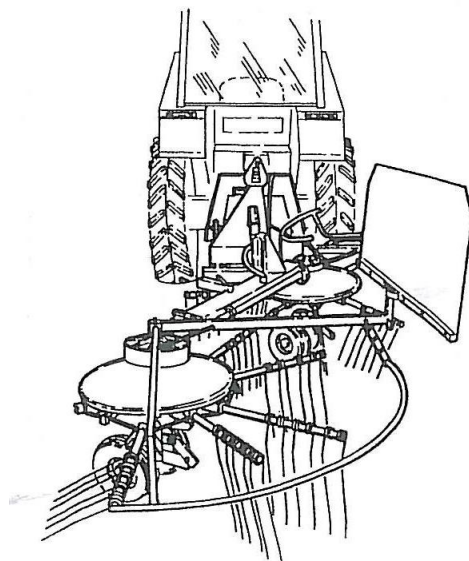
POS. 4

POS. 4: SPREADING

When spreading, the machine runs straight behind the tractor (adjust bolt 42452). The rotors rotate in opposite direction (lever on reversing gear 42509) **and are engaged in the reversing gear in such a way that the pick-up springs cannot touch.**

Put the rake arms in the fixed position (see illustration pos.4), tilt machine forward (adjust cylinder 42411) and adjust wheel height. The protective brackets should have been fitted and the catch arm can be turned up if necessary.

The working width is infinitely variable and can be adjusted to suit the nature of the crop.



TRANSPORT POSITION

Change-over from working position to transport position is as follows:

Telescope small cylinder (42411) completely.

Telescope large cylinder (42451) completely.

Remove bolt (42452) and swing the machine back until locking pawl (42439) engages. Remove retainer (42492), turn right-hand protective bracket in behind the tractor.

Replace retainer (42492) so in the fact that safety bracket is locked in position. Turn left-hand protective bracket in behind tractor and turn catch arm up. Turn mounting (42456) back and fit on protective bracket to lock in position.

Fit rake arms as shown in illustration.

Remove the catch arm.

ORDERING SPARE PARTS

The spare part order must contain the following information:

1. Machine type.
2. Spare part number and description-possibly dimensions and number of parts.

LUBRICATION AND MAINTENANCE

Lubricate PTO shaft after every 10 hours of operation, and lubricate the indicated lubrication points as and when required.

Retighten bolts.

The gearbox is filled with 0.8 liters of SAE 90 gear oil. It should be checked daily and filled up if necessary.

