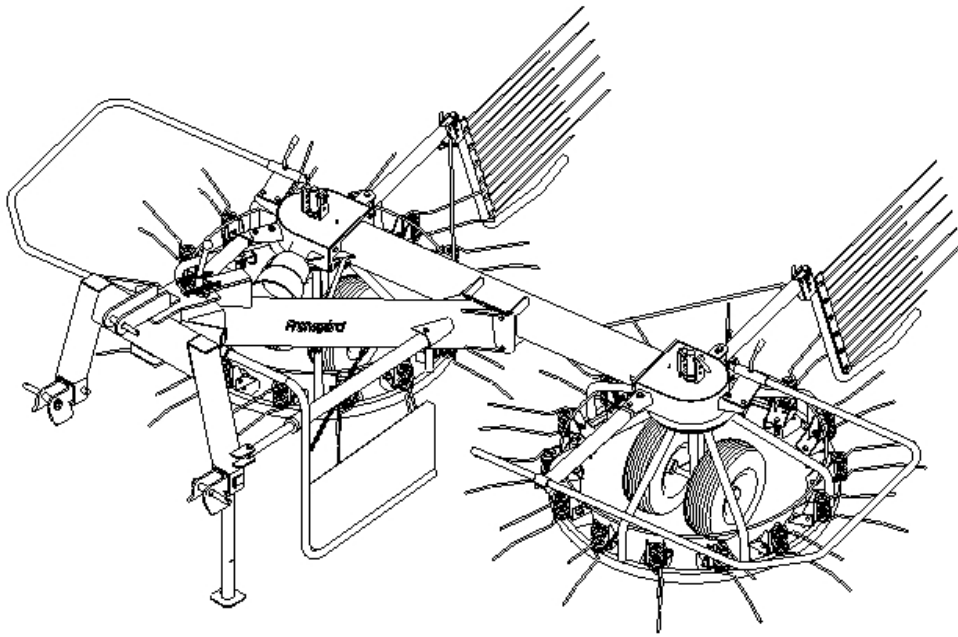


Fransgård

Manual
GB



Rotary Turner

RV-390

Fransgård

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

Model	RV-390
Kg.	420
KW	30
Serie nr.	



Made in Denmark

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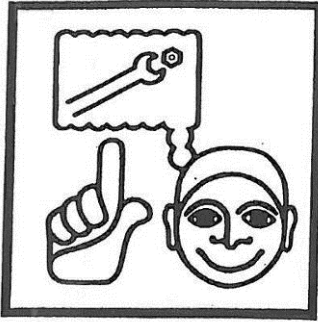
LIST OF CONTENTS

Page

Technical specifications	1
Safety regulations.....	2
Introduction	2
Mounting of the machine	2-3
Directions for use	3
Adjustment for spreading and turning	4
Adjustment for raking and laying in swaths	5
Transport position.....	6
Working position.....	6
Possible applications.....	7
Lubrication and maintenance	8
Ordering spare parts	8

TECHNICAL SPECIFICATIONS

Working width.....	3,90 m / 12'10"
Transport width.....	3,20 m / 10'6"
Working speed, up to	18 km/h / 6-9 mph.
Power required	30 kw / 40 HP.
Power take-off	540 rpm.
Tire size.....	4 pcs. 15 x 600.
Weight	489 kg / 1078 lbs .



SAFETY REGULATIONS

All shields must be in place and checked before the machine is started and the rolling chains must be tightened. It is dangerous to remain in the machine's working area while its parts are rotating.

The machine is made to work in hay- and straw corps, and must not be used for anything else. The machine must only be operated by qualified operator.

Lubrication, maintenance and adjustment of the machine must only be carried out when the machine is at rest and the PTO has been switched off.

Retighten bolts and check adjustment after approx. 5 hours of operation.

Only use original Fransgård spare parts.

Read operating instructions before start-up.

INTRODUCTION

The Fransgard hay fly is one of the fastest and most efficient hay-turners on the world market today.

By adjusting to right wheel height and switching of the rake teeth to turning, the material will be spread loosely and regularly over the field to be dried quickly and efficiently.

For raking together, the Fransgard hay fly is ideal. After mounting of swath collectors and switching of rake teeth, a light and airy swath is laid, well suited for collection with pick-up press.

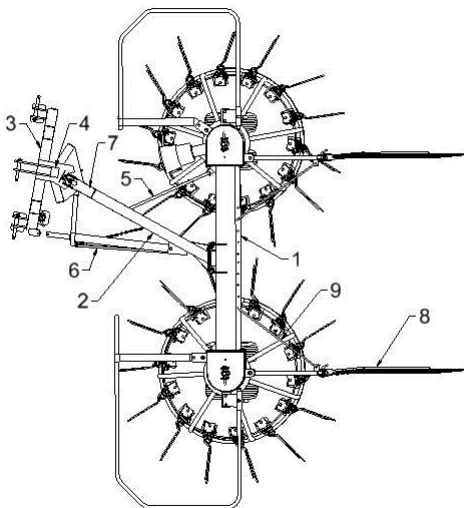
The Fransgard hay fly is built on sturdy sectional steel frames, which will with-stand even strong stresses when passing over uneven ground.

The hay fly can be switched over quickly from transport position to working position.

It has a closed rotor with 14 powerful pick-up springs, which are thrown into working position by centrifugal force as soon as the engine is started.

Its gearbox has hardened bevel gears, withstanding heavy loads. Rotor speed and forward drive speed can be selected depending on the nature and condition of the crop in question.

And it has a power transmission shaft with slipping clutch.

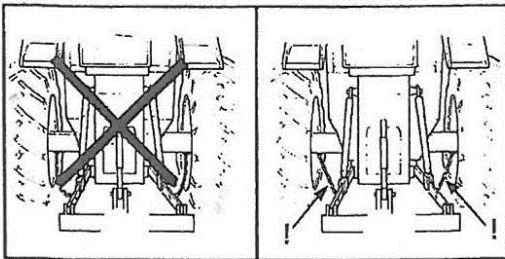


1. Main frame
2. Intermediary frame
3. Three-point suspension
4. Hinged bolt
5. Draw hook
6. Swath separator
7. Top link attachment
8. Swath collector
9. Attachment for swath collector

MOUNTING OF THE MACHINE

1. Mount the wheel (40461) on the main frame (40419). Insert the steel bush (741190720) and then mount the steel pin (25418) and the safety split pin (1220045)
2. Mount the intermediary frame (40482) on the main frame (40419) using 4 bolts (740279992) and 4 lock nuts (740556012). Do not over tighten.
3. Mount the support leg (40406) on the three-point suspension (40480), using a bolt (15558) and a hairpin split pin (1220040).

4. Mount the three-point suspension (40480) on the intermediary frame (40482), using a bolt (42405) and a locking pin (741190223). Mount the draw hook (40422) between the intermediary frame (40482) and the main frame (40419), using washers (740600047) and split pin (741180170). The 4 bolts (740279992) and lock nuts (740556012) should now be tightened.
5. Mount the swath separator (40411) on the intermediary frame (40482) and lock it in place with a spring (40413). Mount the spring (40413) on the intermediary frame (40482), using a bolt (740210320), a spring attachment (40214), a washer (740750030) and a nut (740390010). Mount the chain (40412) between the swath separator (40411) and the intermediary frame (40482), using shackles (713300010).
6. Mount swath collector (40465/40466) on swath collector (40463/40464), using a pin (15558) and a hairpin split pin (1220035). Then mount the swath collector attachment (40474), using a hairpin split pin (122035).
7. Mount PTO. Always use a PTO with a friction coupling.



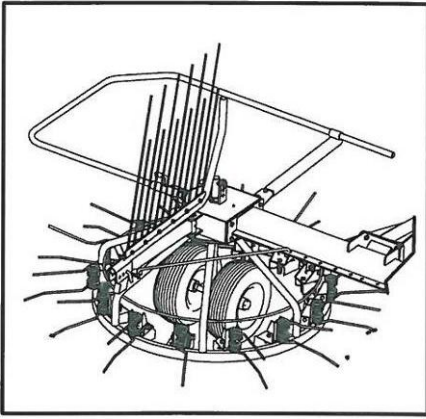
DIRECTION FOR USE

Fastening of rotary turner to tractor:

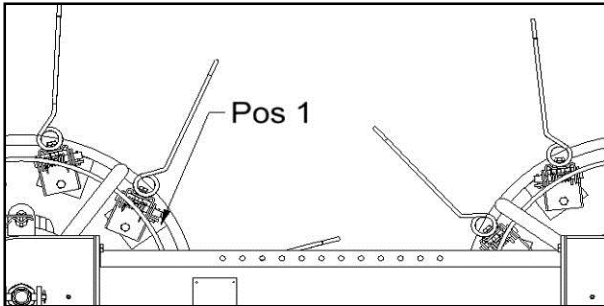
Always use stabilizer or tighten the chains in order to prevent the lifting arms from moving sideways during raking and transport, in order to protect the power transmission shaft.

The length of the power transmission shaft must be checked in working position as well as in transport position, and if necessary it shall be shortened. This will only be necessary in a very few cases.

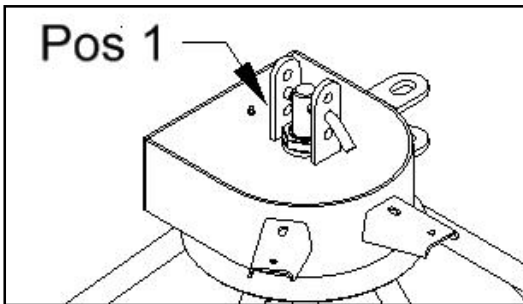
ADJUSTMENT FOR SPREADING AND TURNING



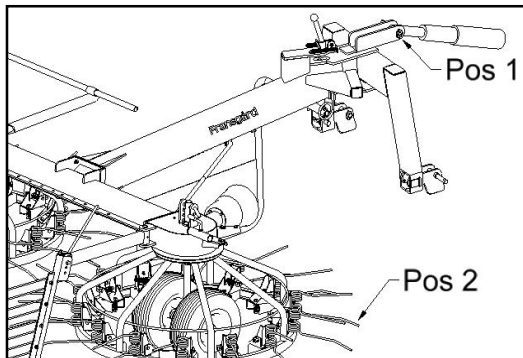
To obtain a better spreading, remove the swath collectors, and mount in the shown position.



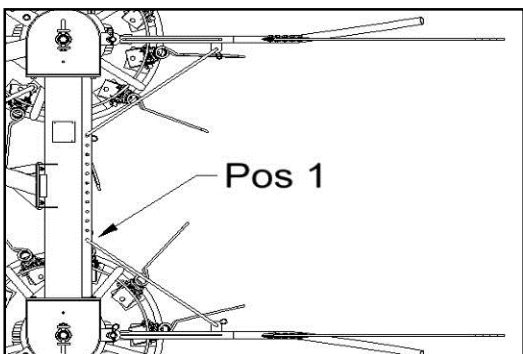
Place all pick-up springs in spread/turn position **Pos 1** as shown in the illustration. (Check that all are in the same position (ill. 1).



Adjust wheels in lower or middle position **Pos 1**. The machine will now be in its highest position (ill. 2).

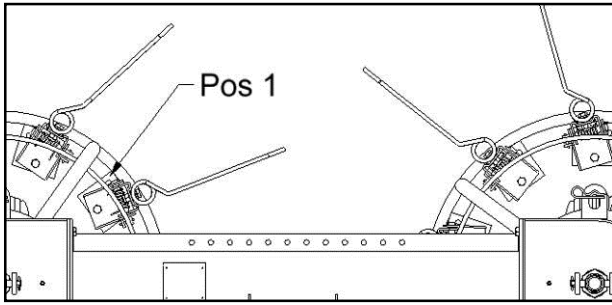


The upper bar of the tractor **Pos 1** shall be fastened to the three-point suspension. Its length is correct (ill. 3), when the points of the pick-up springs **Pos 2** just touch the stubbles in front of the rotors and these go at full speed. The pick-up spring reach their lowest position at 450 rpm.

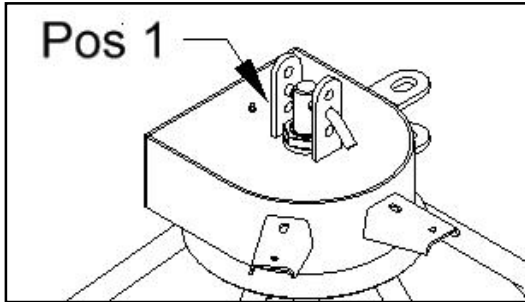


The swath collectors may be used separately or both at the same time to keep the swaths separated. They are used to advantage a- long the edges of a field **Pos 1**.

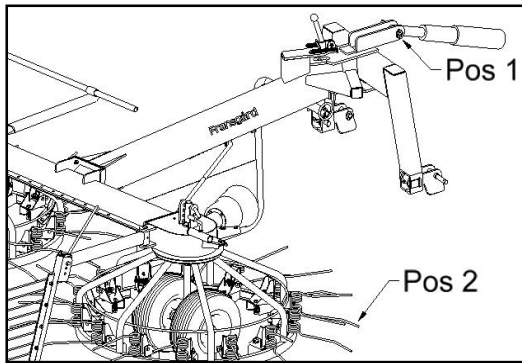
AJDUSTMENT FOR RAKING AND LAYING IN SWATHS



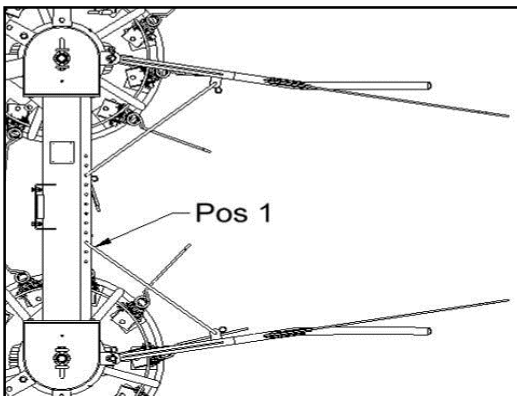
All pick-up springs **Pos** are placed in raking position **Pos 1** as shown in the illustration. (Check that all are in the same position) (ill. 1).



The wheels are placed in the upper or middle position **Pos 1**. The machine will then be in its lowest position (ill. 2).



The upper bar of the tractor **Pos 1** shall be fastened to the three-point suspension. Its length is correctly (ill. 3), when the points of the pick-up springs **Pos 2** just touch the stubbles in front of the rotors and these go at full speed. The pick-up springs reach their lowest position at 450 rpm.



The swath collectors are set as shown **Pos 1** in order to obtain a uniform and loose swath.

TRANSPORT POSITION

During transport, the top link attachment must be in position 3, and the machine must hang immediately behind the tractor. This will prevent the machine from moving sideways.

WORKING POSITION

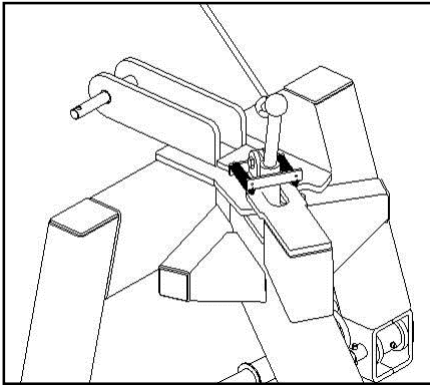
The hay fly model RV-390 has three settings in the three-point suspension:

Pos.1: Top link attachment locked in working position.

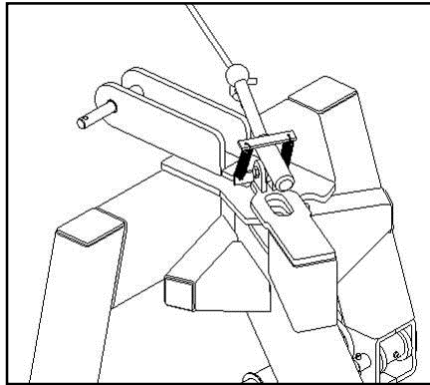
Pos.2: Top link attachment in loose position. (Turn left with the hay fly!).

Pos.3: Top link attachment locked in transport position.

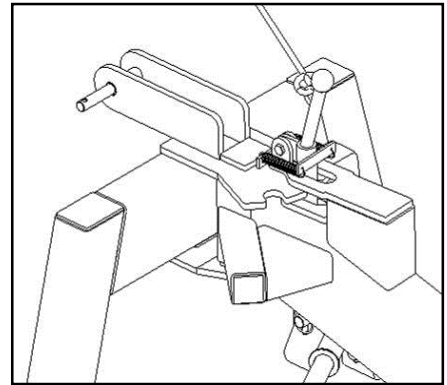
The hay fly is designed to turn left without difficulty when the top link attachment is in loose position (pos. 2). If you wish to turn right, it is necessary to lift the machine, and the top link attachment must be in locked position (pos. 1).



Pos 1

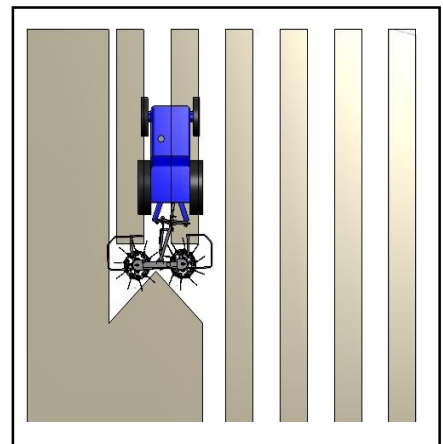
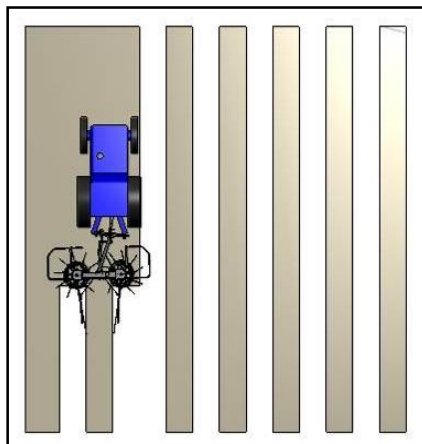
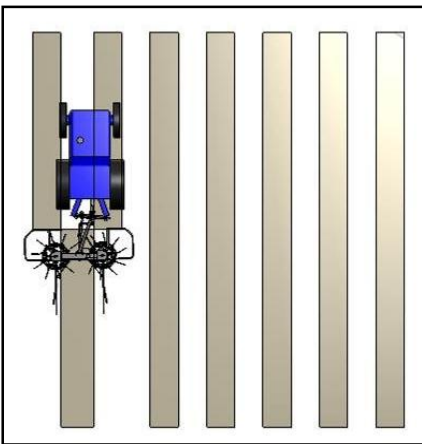
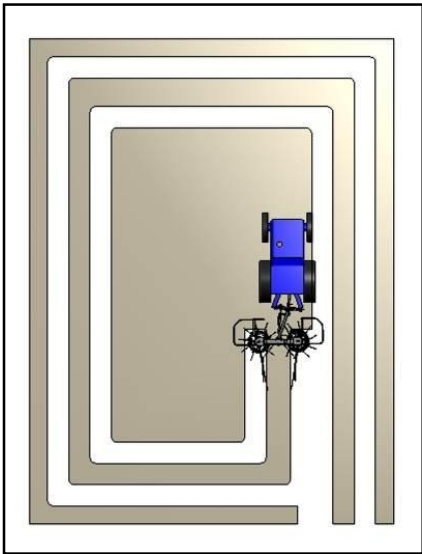


Pos 2



Pos 3

POSSIBLE APPLICATIONS



LUBRICATION AND MAINTENANCE

1. After each 5 hours of work, the lubricator nipples in the interior tube of the power transmission shaft must be lubricated.
 2. After each 10 hours of work, the 2 lubricator nipples of the gearbox must be lubricated.
- When the season is over, the machine must be cleaned and made ready for the next season.

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.

