

ROTATIVE WEEDER AEROSTAR-ROTATION





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The rotative weeder AEROSTAR-ROTATION combines the advantages of a tined weeder and a rotary hoe. The result is a rotative weeder with a very wide range of applications. The work is carried out by steel pins which are embedded in a plastic disc set at an angle. The individually suspended, rotating working tools uproot and shed weeds, promote the tillage of yield crops and break up even hard soil incrustations without any problems.

This method of working makes the AEROSTAR-ROTATION also very suitable for weeding in mulch sowing. With the hydraulic pressure adjustment the pre-tension of the star wheel carriers can be infinitely varied between relief and load from the tractor cab. The relief goes so far that the star wheels are almost float. This makes the machine ideally suited for difficult soil conditions. In addition, this setting can be used to achieve precise blind weeding. The rotative weeder AEROSTAR-ROTATION, similar to the AEROSTAR-EXACT, can be used in almost all rows, as well as drilled crops.



The special suspension & adjustment of the holder of the star wheel ensures the best possible weeding quality!

| Type/ Working width cm / ft | Sections m / ft | Wheels | Star wheels | from hp/kW | Weight approx. kg / lbs |
|---|--------------------|--------|-------------|------------|----------------------------|
| RIGID, not foldable | | | | | |
| AEROSTAR-ROTATION 150 / 4.9 | 1x1.5 / 1x4.9 | 2 | 10 | 20/15 | 280 / 595 |
| AEROSTAR-ROTATION 300 / 9.8 | 2x1.5 / 2x4.9 | 2 | 20 | 35/26 | 420 / 926 |
| Hydraulic folding | | | | | |
| AEROSTAR-ROTATION 450 / 14.8 | 3x1.5 / 3x4.9 | 2 | 30 | 50/37 | 650 / 1433 |
| AEROSTAR-ROTATION 600 / 19.7 | 4x1.5 / 4x4.9 | 4 | 40 | 65/48 | 810 / 1786 |
| AEROSTAR-ROTATION 900 / 29.5 ¹⁾ | 6x1.5 / 6x4.9 | 4 | 60 | 90/66 | 1560 / 3440 |
| AEROSTAR-ROTATION 1200 / 39.4 ²⁾ | 8x1.5 / 8x4.9 | 4 | 80 | 100/74 | 1890 / 4167 |
| AEROSTAR-ROTATION 1800 / 59.1 ^{2,3)} | 12x1.5 / 12x4.9 | 6 | 120 | 150/110 | 3300 / 7276 |

1) With shear-retraction: no quick coupling bar,
2 central support wheels 18x8.50

2) Transport height 4.4 m (14.4 ft)

3 m (9.8 ft) machine: 1 double acting hydr. remote needed
6 m (19.7 ft) machine: 1 double acting and one single acting hydr. remote
needed

9 - 18 m (29.5 - 59.1 ft) machine: 3 double acting hydr. remotes needed

3) Transport width 6 m (19.7 ft)



STANDARD EQUIPMENT

- ✓ Diameter of the star wheel 500 mm / 19.7" -
tine Ø 6.5 mm / 0.26"
- ✓ Line spacing 15 cm / 5.9"
- ✓ Maintenance free bearing of the star wheels - separate
mounting of each star wheel
- ✓ Hydr. adjustable aggressivity - possibility to push down or lift
the section up, with position indicator
- ✓ Pressure and level compensation between the working
sections
- ✓ Large, bearing mounted rubber support wheels
- ✓ Parking support
- ✓ Robust frame

OPTIONS

Double star-wheel instead of weeder tines in the centre of the machine (recommended for fields with a lot of residues)

For machines with shear-retraction working in light and sandy soils we recommend:

Inside twin wheels 18x8.50-8

Outside single wheels 18x8.50-8

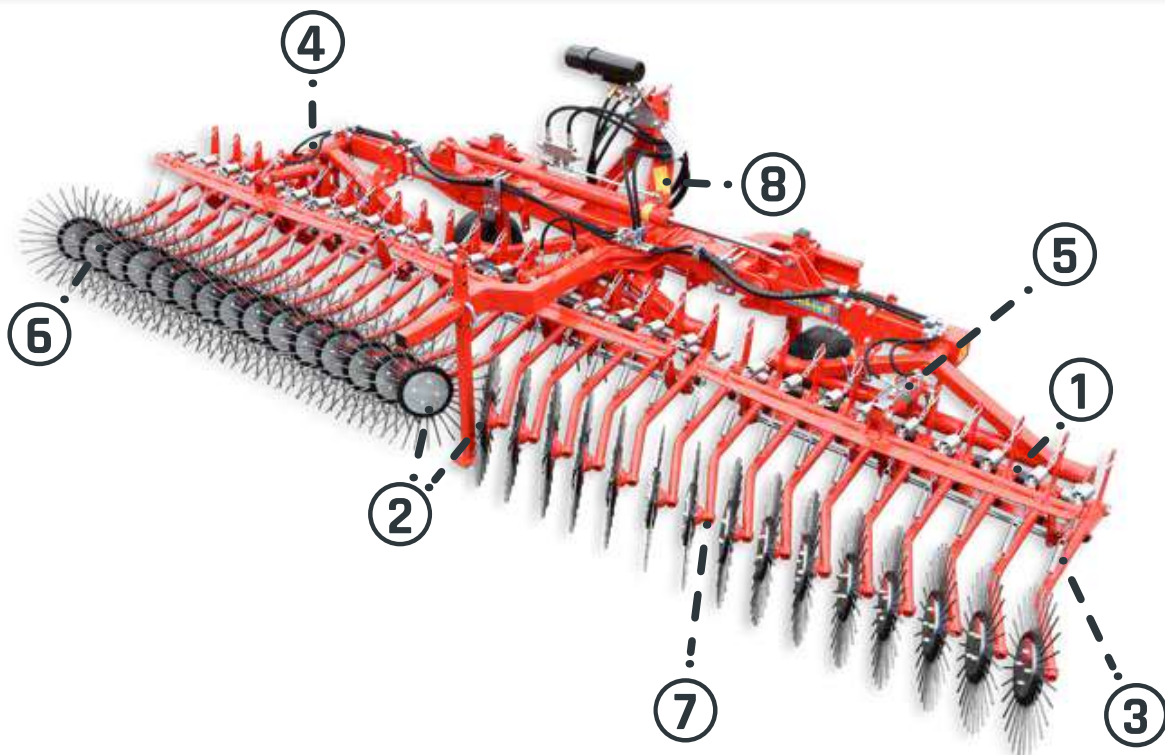
Electrical control valve: combines 2 double acting hydraulic connections to 1 (for machines with shear retraction)

Warning signs with holder and LED-lights

Pneumatic seeding box P-BOX

CONCEPT AEROSTAR-ROTATION

1. **Special mounting** of the star wheels
2. In order to compensate sideforces, **the stars are mounted bi-directional** (line spacing 15 cm / 5.9")
3. **Hydraulic adjustment of aggressivity** - pre-tension of the star wheel carriers can be infinitely varied between relief and load, with position indicator
4. **Hydraulic pressure and level compensation** of the sections for best adaption to the soil surface
5. **Position indicator** of the pressure and level compensation
6. **Diameter of the star wheel** 500 mm / 19.7", tine diameter 6.5 mm / 0.26"
7. **Maintenance free bearing** of the star wheels
8. Working speed **up to 10 km/h / 6.2 mph**







DETAILS AEROSTAR-ROTATION



TRANSPORT LOCK

Transport lock is standard equipment on all machines. All machines up to 6 m (19.7 ft) are locked by a locking bar on the cylinder and machines bigger than 9 m (29.5 ft) with a hydraulic transport lock on the side wings. This provides additional safety when driving on the road or when the machine is parked.

BI-DIRECTIONAL ANGLE

The angle of the inclination of the star wheels is mirror-inverted on half of the machine to prevent a possible side pull. Standard weeder tines are used in the center where there is no star wheel because of the above mentioned above. As an option there is a star-wheel element available.

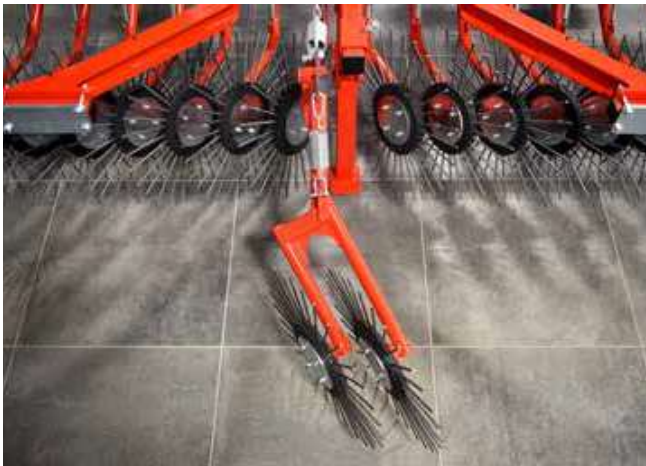


DIAMETER OF THE STAR WHEEL 500 MM / 19.7" - TINE Ø 6,5 MM / 0.26"

The work is done by 6.5 mm / 0.26" thick spring steel tines casted into a plastic disc. Each of these 500 mm / 19.7" star wheels are suspended separately, therefore they adapt perfectly to any surface irregularities. In order to prevent the tines from falling out, they are casted in an u-form into the disc.

LINE DISTANCE OF 15 CM / 5.9"

The discs are mounted at a line distance of 15 cm / 5.9" on sections of 1.50 m (4.9 ft). Even at low working speed, as often required for sensitive crops, the AEROSTAR-ROTATION works effectively.



DOUBLE STAR-WHEEL

Rotation-weeding-element (optional available) instead of normal spring tines for working in the center of the machine (recommended when working in heavy residue).





ADVANTAGES AEROSTAR-ROTATION

CLOGGING-FREE WEEDING IN ORGANIC MATTER OR MULCH-TILL

Due to the rotating stars the machine can handle a big amount of organic matter (in mulch-till fields or in fields with heavy weed infestation) without clogging.



HYDRAULIC ADJUSTMENT OF AGGRESSIVITY

The pressure is comfortably and infinitely adjustable from the tractor's seat. This innovative system uses the power of two counteracting tension springs. By extending the hydraulic cylinder, the tension of the preload spring increases. The pressure on the star wheels increases as well. When retracting the cylinder, the relieving spring is tensioned. If desired the pressure on the star wheels can be reduced, until absolutely no down pressure is left (the star wheels are nearly floating). **Kindly note:** You need experience and knowledge to choose the right aggressivity and working speed for the crop.

IMPROVED BREAKING OF SOIL CRUSTS

Due to a tine pressure of up to 22 kg / 48.5 lbs per tine, it is possible to break up heavy soil crusts. The more aggressively you weed, the slower you should drive.



MAINTENANCE FREE BEARING OF THE STAR WHEELS

The bearings of the stars are maintenance-free and durable. Therefore they remain without clearance even after many seasons and hectares in the field.



PRESSURE ON THE ROTATING STAR WHEELS CAN BE HYDRAULICALLY REDUCED

When working in sensitive crops and light soils the pressure on the rotating star wheels can be hydraulically reduced, until there is no down-pressure anymore and the star wheels are floating. When down-pressure is minimized, the soil has to be very even for optimum performance.

EARLY WEEDING EVEN IN HUMID SOIL

In contrast to the common tine weeder, the AEROSTAR-ROTATION can already be used even if the soil is still moist. This way the rotative weeder has an increased time of application in comparison to the standard tined weeder. This is a great advantage in changing weather conditions.



ADVANTAGES AEROSTAR-ROTATION

EFFECTIVE ALSO IN A LATE GROWTH STAGE

An effective use of the machine is also possible in a late stage of growth, because the rotating wheel does not pull any plants, they simply pass through. The inclined position of the star wheels improves the weeding-effect in the row. Weeds are "swiped out" of the row as long as they are not too well established.



INCLINED MOUNTED STAR WHEELS

The inclined mounting of the star wheels ensures that the weeder cleans itself from residue and it has an important effect on the aggressivity of operation. The faster you drive, the more aggressive the rotative weeder works. The more aggressive the setting, the slower you should drive.

STABLE OPERATION

Due to the solid and strong frame construction the operation of the machine and frame is very steady, even at higher working speeds. In addition, the frame is designed to withstand heavy loads and many seasons of work without any problems.



LARGE FRAME CLEARANCE

A large frame clearance is guaranteed by the position of the sections and the frame. This ensures operation without damaging the crop even when the plants are higher.



**Largest possibility to adjust the tine pressure:
"stroking the soil" or most aggressive crust breaking
up to 22 kg / 48.5 lbs per star wheel element.**