

# Fortis AS



A NEW DEFINITION OF FLEXIBILITY AND PRECISION



# Fortis AS

ROBUST FRAME AND OPTIMUM TINE LAYOUT  
FOR TRACTOR POWERS UP TO 700 HP

- 4-bar design and a tine spacing of 27 cm ensure low horsepower requirement and intensive mixing
- Robust design for hardest conditions and long service life

- Large selection of packer options for intensive consolidation
- Maintenance-free TerraGrip tine system with a release force of 550 kg and a very long service life



The Fortis AS is a robust cultivator that was developed from scratch. The objective was to design a cultivator that takes into account the increasing tractor horsepower and also meets the new requirement on clearance for more mixing quality of organic material.

To meet all these demands, the Fortis AS has a 4-bar design which with a tine spacing of 27 cm and a frame height of 850 mm which provide an enormous clearance even at maximum working depth. The tine spacing of 27 cm helps the mixing quality. Due to the large radius of the tine deflector, the well-known TerraGrip tine system ensures a low horsepower requirement in the field. The design of the 4-bar layout is striking. In this respect, the developers came up with something special: The last tine bar was extended to get as closely as possible to the levelling discs and at the same time create enough space for the transport wheels. Thus, the flow of soil is perfectly led into the levelling discs and an excellent levelling is achieved. The transport wheels can be moved safely away from the working area and does not impede the flow of soil in the machine. This contributes to an enormous clearance combined with a perfect levelling quality.

Depending on the application, the HORSCH Fortis AS can be set up to optimum working conditions and to the customer requirements. As standard, the machine is equipped with a weight transfer system to increase traction that transfers a vertical load of up to 1.2 t to the rear axle of the tractor. The drawbar and chassis of the machine are used to transfer the weight via the top cylinder to the tractor drawbar. If required, the weight transfer system can, of course, be switched off. The well-proven MulchMix point system with its wide range of point and wing options also contributes to the flexibility of this machine. Last but not least, the packer: the farmer can choose between three packer options. With regard to double packers, the machine can be equipped with the well-known SteelFlex or the double Rollpack packer. Depending on the customer requirements, the double packers can be pre-tensioned hydraulically. This pre-tensioning prevents the first packer roller from sinking in and thus, increases the load-carrying capacity. The OptiRoll packer with a large diameter of 76 cm is available as a single packer. It excels due to its high carrying capacity on light soils as well as the high clearance between the rubber rings.



Fortis AS carrying out primary soil cultivation



Perfect levelling due to compact design

# TerraGrip III

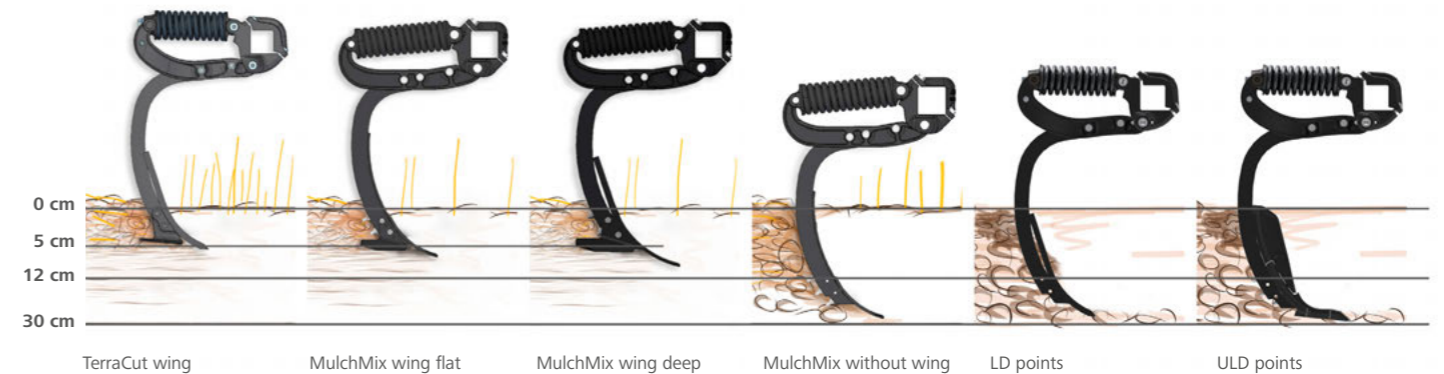


TerraGrip III – release effect

The TerraGrip tine system impresses due to its flexibility with regard to the various point and wing options. The low horsepower requirement and the excellent mixing behaviour are due to the curved shape and the low angle of the point.

- Release force from 500 to 550 kg (depending on the model)
- Flexible mounting of point and wing options
- Low horsepower requirement due to curved deflector
- Optimum residue mixing even at shallow working depths

# Points and wings



Due to the wide range of point and wing combinations the cultivator can be used for almost all cultivation depths from shallow cutting at 3 to 4 cm to primary soil cultivation. This increases the application range enormously.



TerraGrip III

## TerraCut wing

- Wings on the left and right side for all TerraGrip tines
- Cutting width: 40 cm
- Low setting angle
- Excellent penetration behaviour due to angle of the point

## MulchMix wing flat/deep

- Wings on the left and right side for all TerraGrip tines
- 34.5 cm wide wings
- Two setting angles depending on the working depth
- Available as standard and a carbide version

## MulchMix without wing

- Deep loosening and intensive mixing of the soil
- Working depths: 15 to 30 cm
- Various carbide versions

## LD points

- LD = Low Disturbance point
- 40 mm wide point for deep loosening without moving too much soil
- Working depth: 20 to 30 cm

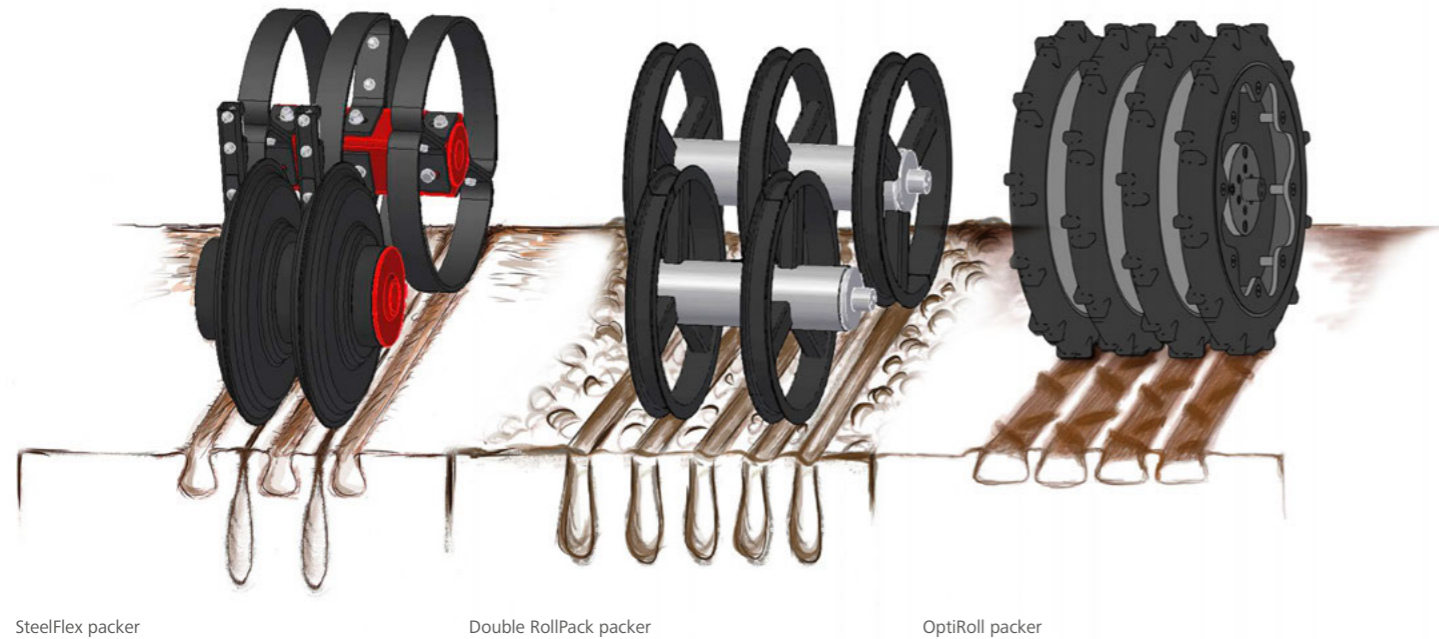
## ULD points

- ULD = Ultra Low Disturbance point
- Point width: 25 mm, very little soil movement
- Leading point to get below compaction zones

# PACKER SYSTEMS

VERSATILE FOR OPTIMUM RESULTS

The depth effects and the main applications of the different HORSCH packer versions.



Steelflex packer

Double RollPack packer

OptiRoll packer

## Steelflex packer

- SteelDisc packer 58 cm Ø for deep consolidation
- RingFlex packer 60 cm Ø for fine soil production on the surface
- Weight per m working width: 442 kg

## Double RollPack packer

- Steel ring roller with a diameter of 55 cm
- Deep strip consolidation
- Flexible conditions of use
- Weight per m working width: 130 kg

## OptiRoll packer

- Excellent rolling characteristics
- OptiRoll packer Ø 73 cm
- Weight per m working width: 376 kg

- Central element to determine the working quality
- Depth control
- Different consolidation depending on the requirements
- Perfect working quality in wet and dry conditions
- Appropriate germination bed for volunteer crops and weeds
- Rough, loose soil structure for medium and heavy soils
- Final finishing of the seed horizon

## Rigid packer frame with single and double packers

The rigid packer of the Fortis AS ensures an even consolidation and an enormous flexibility. Due to two additional adjustment plates, the spacing between the two packers and the height of the first packer can be set to optimum working conditions and working height.

- Wide range of packer options
- Depending on the conditions, the spacing and the height of the packer can be adjusted via several adjustment plates
- Different consolidation zones depending on the packer



Rigid packer frame with double RollPack packer



Rigid packer frame with double packer

## Hydraulically pre-tensioned packer

The hydraulically pre-stressed packer allows the farmer to individually and quickly react to changing working depths and conditions. Due to the pre-tension, weight can be transferred from the front to the rear packer roller. Thus, consolidation and crumbling can be adapted to the conditions.

- Rear packer roller can be pre-tensioned
- Front packer roller is less pressured
- Prevents the machine from sinking in soft conditions



Hydraulically pre-tensioned packer



Steelflex packer with hydraulically pre-tensioned RingFlex

# TECHNICAL DATA

Fortis AS	6 AS	7 AS	9 AS
Working width (m)	5.60	6.70	8.90
Transport width (transport position) (m)	2,99	2,99	2,99 (3.50 with mech. TerraGrip)
Transport height (m)	3,50	3,99	3,99 (4.30 with mech. TerraGrip)
Length (m)	9.30	9.30	9.50
Axle load (kg)	6700 - 7800	7300 - 8600	9200 - 11000
Vertical load (kg)	500 - 1450	600 - 1500	1100 - 2400
Tyre size support wheels	400/60-15.5	400/60-15.5	520/50-17
Tyre size transport wheels	550/45-22.5	550/45-22.5	550/45-22.5 or 385/65 R22.5
Number of tines	21	25	33
Tine spacing in one row (cm)	108	108	108
Tine spacing (cm)	27	27	27
Frame height (mm)	850	850	850
DA control devices	2 (+ 1 depending on option)	2 (+ 1 depending on option)	4
Horsepower requirement (kW/hp)	260 - 400 / 350 - 550	290 - 440 / 400 - 600	370 - 510 / 500 - 700
Implement attachment lower link	Cat. III/III - III/IV - IV/IV	Cat. III/III - III/IV - IV/IV	Cat. III/III - III/IV - IV/IV
Implement attachment adjustable drawbar	Hitch Ø 42, 51, 71 mm	Hitch Ø 42, 51, 71 mm	Hitch Ø 42, 51, 71 mm
Implement attachment ball head	K 80	K 80	K 80





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All specifications and diagrams are approximate and not binding. Technical features and design are subject to change.

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