

 **HORSCH**

# Fortis AS

FLEXIBILITY AND PRECISION REDEFINED





# Fortis AS

STRONG FRAME AND OPTIMAL TINE DISTRIBUTION FOR TRACTOR POWERS UP TO 850 HP

- 4-bar design with a tine spacing of 27 cm combines low horsepower requirement and intensive mixing
- Robust design for the hardest operating conditions and durability

- Wide selection of packer options for intensive consolidation
- Maintenance-free TerraGrip tine system with 570 kg release force and highest durability



The Fortis AS is a heavy cultivator that has been completely redeveloped. The objective was to develop a cultivator that, on one hand, accounts for the increased tractor powers of recent years, and on the other hand, responds to the new requirements on clearance, organic material on the field, and mixing quality.

To meet this set of requirements, the Fortis AS was equipped with a 4-bar design which with a row spacing of 27 cm and a frame height of 850 mm ensures an enormous clearance even at maximum working depth. The row spacing of 27 cm improved the mixing quality. The well-known TerraGrip tine system ensures a low horsepower requirement in the field due to its large radii at the tine shank. The design of the 4-bar frame of the Fortis is striking. The developers came up with a special gimmick. The tine shank of the last bar was extended to get as close as possible to the leveling discs while simultaneously providing enough clearance for the transport wheels. This ideally directs the flow of soil into the leveling discs achieving a perfect levelling. The transport wheels can be moved far out of the working range and thus does not obstruct the soil flow of the tines in the machine. This contributes to an enormous clearance with perfect levelling quality.

Depending on the operating conditions, the HORSCH Fortis AS can, of course, be individually adapted to customer requirements and operating conditions. The machine is equipped as standard with an integrated weight transfer system to increase traction which transfers up to 1.2 tons of vertical load to the rear axle of the tractor. A part of the machine's subframe is used to transfer the weight via the top cylinder to the drawbar. If required, the weight transfer system to increase traction can, of course, be turned off. The well-known MulchMix point system with its wide selection point options and wings also contributes to flexibility. Finally, the packer: Here you can choose between three packer options. For the double packers, the well-known SteelFlex packer and the double RollPack packer are available. Depending on the customer requirements, the double packers can be pre-tensioned hydraulically. By pre-tensioning, the sinking of the first packer roller can be prevented, thus increasing the load-bearing capacity. For the individual packers, the Opti-Roll packer with a large diameter of 73 cm is available. It excels due to a high load-bearing capacity even on light soils and the high clearance between the rubber rings.



Fortis AS doing primary soil cultivation



Perfect levelling due to compact design

# TerraGrip III

# Points and wings



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 tine design
- Optimum residue mixing even at shallow working depths



Due to the wide range of point and wing options, 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 point wing shallow/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 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 point width for deep loosening without moving much soil
- Working depth 20 to 30 cm

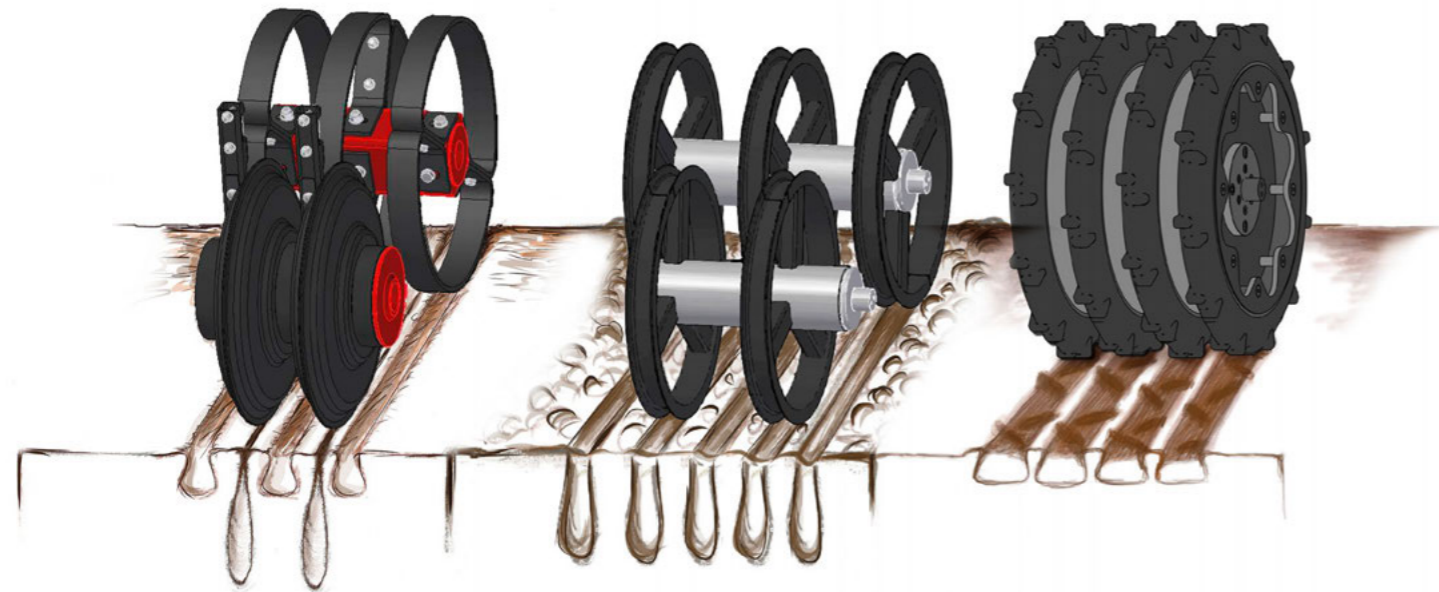
## ULD points

- 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  
Ø 55 cm

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 rollers with a diameter of 55 cm
- Deep strip consolidation
- Can be used in all situations
- Weight per meter 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 horizo

## Rigid packer frame with single and double packers

The rigid packer combines even consolidation with simultaneous flexibility in the *ortis AS*. By means of two additional hole segments, the distance between the two packers and the height of the first packer can be adjusted to the conditions and the working depth.

- Wide selection of packers
- Depending on the operating conditions, the distance and height of the packer can be adjusted using several hole segments.
- Different consolidation horizons depending on the packer



Rigid packer frame with double RollPack packer



Rigid packer frame with double packer

## Hydraulically pretensioned packer

The hydraulically pretensioned packer allows the farmer to individually and quickly respond to changing working depths and soil conditions. Due to the pre-tensioning, weight can be transferred from the front to the rear packer roller. Thus, the consolidation and crumbling can be adjusted according to the site.

- The rear packer roller can be pretensioned
- Relief of the front packer roller from any load
- Prevents sinking in light soils



Hydraulically pretensioned packer



SteelFlex packer with hydraulically pretensioned RingFlex

# TECHNICAL DATA

Fortis AS	6 AS	7 AS	8 AS	9 AS
Working width (m)	5,60	6,70	8,27	8,90
Transport width (m)	2,99	2,99	3,00	2.99 (3.50 with mech. TerraGrip)
Transport height (m)	3,50	3,99	4,00	3.99 (4.30 with mech. TerraGrip)
Length (m)	9,30	9,30	9,20 - 10,20	9,50
Axle load (kg)	6700 - 8200	7300 - 8800	10000 - 11000	9100 - 11500
Vertical load (kg)	500 - 1450	600 - 1500	620 - 1000	1100 - 2400
Tyre size support wheels	400/60-15.5	400/60-15.5	400/60-15.5	520/50-17
Tyre size transport wheels	550/45-22.5	550/45-22.5	385/65 R22.5	385/65 R22.5
Number of tines	21	25	29	33
Tine spacing in one row (cm)	108	108	114	108
Tine spacing (cm)	27	27	28,5	27
Frame height (mm)	850	850	850	850
DA control devices	2 (+ 1 per option)	2 (+ 1 per option)	3 - 4 (depending on option)	4
Horsepower requirement (kW/hp)	260 - 400 / 350 - 550	290 - 440 / 400 - 600	370/500	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	Cat. III - III / III - IV / IV - IV
Implement attachment adjustable drawbar	Towing eye Ø 42, 51, 71 mm	Towing eye Ø 42, 51, 71 mm	Towing eye Ø 42, 51 or 71 mm	Towing eye Ø 42, 51, 71 mm
Implement attachment ball head	K 80	K 80	K 80	K 80
OptiRoll packer Ø (cm)	73	73	73	73
SteelFlex packer Ø (cm)	58 / 60	58 / 60	58 / 60	58 / 60
Double RollPack packer Ø (cm)	55	55	55	55





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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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