

ROTERRA 55 H

Roterra 55 H series

The Tulip Roterra 600-55 H is a six meter hydraulically folding heavy duty power harrow. It is specifically designed for large farmers and contractors who require high work outputs as well as quick and efficient transport. A transport width of less than 3 meters is achieved in a matter of just a few seconds.

The Roterra 600-55 H: a quicker way to a quality of seedbed unrivalled by its competitors

- Standard specification:**
- "club" tines with side fixation for quick exchange with air key
 - hydraulically foldable for transport on public roads large outputs, ideal for surfaces which are divided into different plots
 - rigid headstock and 55 series gear troughs for a prolonged life
 - fitted with 2 independent power harrow units
 - overlapping rotors for optimum crumbling of the soil
 - rigid central drive box for 1000 r.p.m. PTO
 - "floating" system standard with packer rollers Ø500 mm
 - 2 x Walterscheid PTO shaft with shear pin automat
 - easy linkage to Polymat CH seed drill



Hydraulic folding: Two heavy duty hydraulic rams incorporated onto a very robust 3 point linkage frame fold the two 3 m sections vertically for transport in a matter of seconds. For safety when folded, two locking hook shaped latches secure each section in vertical position. The main central gearbox is centrally driven allowing the PTO shaft to run in a straight line from the tractor to considerable reduce wear and tear on the shaft as well as making it easier to fit.

"Floating" system: In work each 3 m section is independently fully floating on a parallel linkage system to ensure a consistent working depth across the full working width in uneven soil conditions. This "floating" system also reduces the weight on the rotating tines and tine holders requiring considerable less power to drive the Roterra 600-55 H as well as reducing wear and tear.



Depth wheels: Two large depth control wheels are fitted as standard and are adjusted by wind handles to set the height of the main support frame. The setting of these frames allows the floating parallel linkage to work at optimum efficiency for the required working depth which is controlled by the rear depth control rollers.



Dept control rollers: In work the depth control rollers are closely spaced in the centre to keep any joining ridge to a minimum. In addition, a spring loaded anti riding device is fitted to virtually eliminate any ridge and give an even level seedbed across the entire working width.



ROTERRA 25 (C) - 35 - 55 (H) series + Accessories

Article number	Description	Transport width mm	Open roller Ø mm	Power required hp	Max. power hp 540/1000 rpm	Weight with OR/PR kg
701-250	Roterra 250-25 C	2500	330	45	95/115	815/975
701-300	Roterra 300-25 C	3000	440	50	115/140	920/1125
701-930-036	Other set of gears instead of standard combination 19/16 (540 rpm)					
701-930-013	Shearpin automatic or shear bolt clutch instead of cam-type cut-out clutch					
701-930-029-001	Mechanical linkage parts					
701-930-017-001	Hydraulic linkage 2 cylinders (max. 1800 kg)					
701-930-005	Track eradicators 2x2 tines					
701-930-009	Levelling board					
701-930-028-001	Spindle kit for levelling board					
701-930-043-001	Non-delivery open roller 250-25 C Ø 330 mm					
701-930-044-001	Non-delivery open roller 300-25 C Ø 440 mm					
701-930-058-001	Non-delivery bearing plates for open roller Ø 330/440 mm					
701-930-006-001	Open roller 250-25 C Ø 440 mm instead of open roller Ø 330 mm					
701-930-026-001	Open roller 300-25 C Ø 330 mm instead of open roller Ø 440 mm					
701-930-030	Extra rods + bolts					
701-930-007	Packer roller Ø 430 mm instead of open roller					
701-930-008	Packer roller Ø 500 mm instead of open roller					
700-250	Roterra 250-25	2500	330	45	95/115	815/975
700-300	Roterra 300-25	3000	440	50	115/140	920/1125
700-930-036	Other set of gears instead of standard combination 19/16 (540 rpm)					
700-930-013	Shearpin automatic or shear bolt clutch instead of cam-type cut-out clutch					
700-930-029-001	Mechanical linkage parts					
700-930-017-001	Hydraulic linkage 2 cylinders (max. 1800 kg)					
700-930-005	Track eradicators 2x2 tines					
700-930-009	Levelling board					
700-930-028-001	Spindle kit for levelling board					
700-930-043-001	Non-delivery open roller 250-25 C Ø 330 mm					
700-930-044-001	Non-delivery open roller 300-25 C Ø 440 mm					
700-930-058-001	Non-delivery bearing plates for open roller Ø 330/440 mm					
700-930-006-001	Open roller 250-25 C Ø 440 mm instead of open roller Ø 330 mm					
700-930-026-001	Open roller 300-25 C Ø 330 mm instead of open roller Ø 440 mm					
700-930-030	Extra rods + bolts					
700-930-007	Packer roller Ø 430 mm instead of open roller					
700-930-008	Packer roller Ø 500 mm instead of open roller					
700-930-023	Star packer roller Ø 440 mm instead of open roller					
700-930-042	Strengthened headstock 25 series for combination with seed drill					
705-300	Roterra 300-35	3000	440	50	130/160	1120/1260
705-350	Roterra 350-35	3500	440	65	--/180	1250/1475
705-400	Roterra 400-35	4000	520	75	--/180	1525/1645
705-450	Roterra 450-35	4500	520	80	--/200	1750/1890
705-930-037	Other set of gears instead of standard combination 20/15 (540 rpm) - 300-35					
705-930-038	Other set of gears instead of standard combination 20/15 (1000 rpm) - 350/400/450-35					
705-930-013	Shearpin automatic instead of cam-type cut-out clutch					
705-930-015	Knife tines					
705-930-016	Long tines 280 mm, only possible in case of stone less soil (only at 300-35)					
705-930-029	Mechanical linkage parts					
705-930-017	Hydraulic linkage 2 cylinders					
705-930-005-002	Track eradicators 2x2 tines					
705-930-009	Levelling board					
705-930-028	Spindle kit for levelling board					
705-930-044	Non-delivery open roller Ø 440 mm					
705-930-045	Non-delivery open roller Ø 520 mm					
705-930-058-001	Non-delivery bearing plates for open roller Ø 440 mm					
705-930-059-001	Non-delivery bearing plates for open roller Ø 520 mm					
705-930-030-004	Extra rods 300-35 Ø 440 mm + bolts					
705-930-007	Packer roller Ø 430 mm instead of open roller					
705-930-008	Packer roller Ø 500 mm instead of open roller					
705-930-023-002	Star packer roller 300-35 Ø 440 mm instead of open roller Ø 440 mm					
705-930-018	Gearbox 45 series (standard for 350/400/450-35)					
705-930-042	Strengthened headstock 35 series for combination with seed drill					
705-930-057	Headstock incl. support beams 55 series instead of 35 series 300/350-35 (std 400/450-35)					
710-300	Roterra 300-55	3000	440	60	--/200	1245/1460
710-400	Roterra 400-55	4000	520	80	--/230	1730/1855
710-450	Roterra 450-55	4500	520	95	--/238	1800/2100
710-500	Roterra 500-55	5000	440	108	--/252	1980/2300
710-600	Roterra 600-55	6000	440	125	--/275	2220/2575
710-930-038	Other set of gears instead of standard combination 20/15 (1000 rpm) - 450-55					
710-930-039	Other set of gears instead of standard combination 24/19 (1000 rpm) - 300/400/500/600-55					
710-930-013-004	Shearpin automatic instead of cam-type cut-out clutch 300/400/450-55					
710-930-029-002	Mechanical linkage parts					
710-930-021	Hydraulic linkage 2 cylinders (max. 2200 kg) 300/400/450-55					
710-930-005-002	Track eradicators 2x2 tines					
710-930-009	Levelling board					
710-930-028	Spindle kit for levelling board					
710-930-044	Non-delivery open roller Ø 440 mm					
710-930-045	Non-delivery open roller Ø 520 mm					
710-930-058	Non-delivery bearing plates for open roller Ø 440 mm					
710-930-059-001	Non-delivery bearing plates for open roller Ø 520 mm					
710-930-008	Packer roller Ø 500 mm instead of open roller					
710-930-023-002	Star packer roller 300-55 Ø 440 mm instead of open roller Ø 440 mm					
711-400	Roterra 400-45 H	2950	440	80	--/180	2060/2280
711-600	Roterra 600-55 H	2950	440	125	--/275	3315/3660
711-930-038	Other set of gears instead of standard combination 20/15 (1000 rpm) - 400-45 H					
711-930-037	Other set of gears instead of standard combination 15/20 (1000 rpm) - 600-55 H					
710-930-009	Levelling board					
711-930-051	Non-delivery open roller Ø 440 mm					
711-930-058-002	Non-delivery bearing plates for open roller Ø 440 mm					
711-930-053	Packer roller Ø 500 mm instead of open roller Ø 440 mm					



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TULIP ROTERRA 25 - 35 - 55 SERIES



Tulip Roterra Power Harrows, top quality designed by the specialists in seedbed preparation. The design and quality of the Tulip Roterra ensures a long and trouble free working life giving outstanding value for money and an unrivalled quality of seedbed in all soils and conditions. Year after year, acre after acre, the ROTERRA meets all your demands and more!

Roterra 25 series

Tulip Roterra 25 Series, gives outstanding value for money and an unrivalled quality of seedbed in all soils and conditions.

Standard specification:

- "Club" tines with side-fixings for quick exchange with the help of an air key.
- three point headstock with heavy duty support beams and a patented, floating suspension of rotor guard
- Rigid torsion-free gear trough with flanged lids for a long life
- Heavy duty drive box
- Central drive suitable for 540 or 1000 r.p.m.
 - Floating system with open roller Ø 330 mm at 2,5 m or Ø 440 mm at 3 m.
 - Foldable soil deflectors, adjustable both horizontally and vertical
 - Walterscheid PTO shaft with Cam-type-cut-out clutch.

A full range of optional extras makes the ROTERRA meet all your demands!

Optional extras:

- PTO with automatic shear pin device instead of a cam-type-cut-out clutch.
- Choice between Packer roller, Roll-Contact Tyre packer roller 3 / 3,5 / 4 m, Packer roller 3 m or star packer roller 3 m.
- Mechanical/hydraulic linkage, for easy combining with a drill or planter.
- Levelling board self adjusting or with spindle adjustment, if required
- Track eradicators 2x2 tines
- Dual and Dual Plus system for 3 m
- Extra set of change gears

Benefits "Club" tines:

Due to the shape, fixing, material and production technique, original, patented Tulip tines guarantee high quality and long life. The tines have a trailing action. The dry loose soil remains on the top and the moist soil underneath is not lifted. At the same time blockage by crop residues is prevented. The patented tines require considerably less power than blades or other tine shapes. A reduction of up to 20% power is possible. In wet soil conditions smearing from round Tulip tines is minimal. The most rigorous specifications are set to: resistance to wear, flexibility, fitting and assembly. The "Club" tines have 15% extra material at the wearing point to give a longer working life and proving better value for money. These "club" tines are fitted by a single Allen headed socket bolt and a unique captivated self locking nut to keep the tines tight in all conditions. Because the bolt is accessible from the side, the tines can quickly and easily be changed by means of a power tool or socket. The small top surface of the tine holder prevents pilling up of dirt between trough and tine holder.

Levelling board: A fully floating levelling board can be supplied as an option for heavy cloddy conditions to give added crumbling of the soil by the tines to ensure the desired quality of seedbed is achieved in all soil conditions. The levelling board which works on a parallelogram system can also be supplied with a wind handle adjustment.



Hydraulic up and over 3-point linkage: An ideal way to attach your drill to the Roterra reducing lifting capacity for one pass seedbed preparation and drilling to give optimum work output, as well as saving time and money. These linkages are of rugged construction featuring two powerful rams to lift the second machine and moving the centre of gravity very close to the tractor. Road safety is ensured by an automatic locking system.



Mechanical 3-point linkage:

A mechanical 3-point linkage kit is a simple and effective way to attach a secondary machine such as a precision drill for example, for soil preparation and drilling in one pass.

Optimum protection of man and machine: The unique, spring-loaded rotor guard is fitted as standard on all Tulip Roterra's to meet the rigid CE safety standards. In addition, stones and other objects are pushed down so that they pass through the rotating tines, thus protecting the more bulky tine holders. An efficient floating soil deflector is also standard to give a perfectly level seedbed between passes.



Roterra 35 series

Tulip Roterra 35 Series, gives a long and trouble free working life with an unrivalled quality of seedbed in all soils and conditions.

Standard specification:

- "Club" tines with side fixing for quick changing with air key
- Three point headstock with heavy duty support beams
 - Extra strong gearbox with flanged lids
 - Heavy duty drive box
 - 300-35 series with central drive. Suitable for 540 r.p.m. or 1000 r.p.m. 350/400/450-35: with extra large crown wheel. Suitable for 1000 r.p.m.
 - Floating system with open roller Ø 440 mm and for 4 m and upwards with open roller Ø 520 mm
 - Walterscheid PTO shaft with Cam-type-cut-out clutch (1 3/8" 6 splines).



Dual push pull kit and Dual plus system:

The Dual Plus, a system for power harrowing, ridge-making and potato planting in one single working pass. With this one pass system you will be planting into incompact soil, shallower soil cultivation, higher build-up of ridges, more even crop development through more effective moisture conservation, saving of labour and tractor power, straight driving characteristics (no side movement), excellent distribution of weight and less power required. During potato harvesting you will see fewer clods in the ridges, cleaner potato sample, and increased harvesting output with less damage.



Central Gearbox: The Roterra is fitted with a gearbox suitable for both 540 and 1000 r.p.m. tractor PTO speed (350/400/450-35 and all 55 series are only suitable for 1000 r.p.m.). A full range of gear sets are available to give the desired seedbed in all conditions and forward speeds. Gears can quickly and easily be changed without the need for tools. The drive shaft is moved further back, enabling close coupling to the tractor.



The power of Tulip... combinations.

The headstock and support frame on the ROTERRA series are heavy duty and ideally suited to mount secondary equipment. POLYMAT seed drills are specifically designed for the ROTERRA. The drill weight is close coupled to the tractor and both drill and power harrow float completely independently of one another whilst in work, eliminating any extra weight being put onto the power harrow. The POLYMAT seed drills are available in 3 m and 4 m widths either wheel mounted or packer roller mounted. Other seed drills or planters can be combined with the Roterra either by mechanical or hydraulic up and over three point linkage. The TULIP DUAL push-pull system enables the ROTERRA to be fitted to the front linkage of the tractor which can offer ways of planting potatoes, vegetables, cereals etc. in one pass. This gives optimum weight distribution for the tractor, saving labour and time as well as a reduction of wheelings. When using the push-pull kit the full range of optional gears sets is available to ensure that the desired seedbed can be achieved at either 540 or 1000 r.p.m. PTO.



Gear trough:

Today, farmers are looking at ways to cut input costs and need machines to give a longer, trouble free working life. This, coupled with the use of much bigger horsepower tractors, has been fully taken into account when developing the ROTERRA power harrow. The "heart" of any power harrow, is the gear trough which is completely sealed to ensure no contamination of the drive gear lubrication, as well as incorporating self lubricating, double sealed, heavy duty bearings. All components in the gear trough are manufactured to stringent quality standards, using the best possible materials, ensuring a long and trouble free working life. In the market our trough is even heavier duty using rigid torsion-free gear trough with flanged lids, large diameter shafts and bearings as well as a large spacing between the top and bottom bearings to give farmers or contractors many years work in the most difficult and arduous conditions.



Track eradicators: These are available as an optional extra to eliminate tractor wheelings and ensuring a level seedbed without wheelings. They are adjustable for both depth and width with a shear bolt safety device fitted as standard.

Cam-type-cut-out clutch: It gives full machine protection with automatic overload cam-type-cut-out clutch; the PTO drive can then be reconnected without the operator leaving the tractor seat. The cams make sure that the machine is protected continuously at the same force.



Roterra 55 series

The Tulip Roterra 55 Serie, A top class machine unrivalled by competitors.

Standard specification:

- "Club" tines with side fixing for quick exchange with air key
- Top class gear trough with extra large distance between top and bottom bearings for long life
- Three point portal type headstock with heavy duty support beams for increased strength and rigidity
- Rigid 1000 r.p.m. drive box. PTO extension
- Reinforced floating system for open roller Ø 440 mm or Ø 520 mm
- Walterscheid PTO shaft with Cam-type-cut-out clutch (1 3/8" 21 splines) for 3 m, 4 m and 4,5 m
- Walterscheid PTO shaft with shear pin automatic (1 3/8" 21 splines)



Dept control rollers: The different rollers in our package make it possible to work with the correct roller for all soil conditions. Due to the "floating" system the Roterra power harrow can break out up wards if necessary independently from the roller. This is eliminating the risk at stony soil.

Open roller: Open rollers with different diameters are available for extra crumbling and compaction of clods. Additional rods can be supplied for extra compaction for 2,5 m and 3 m.

Packer roller: For pressing the soil for a smooth seedbed. The Heavy duty packer rollers are delivered with spring loaded scrapers.

Star packer roller: Can be delivered in 2,5 m or 3 m width. It is condensing the lower layer and breaking the top layer to be less compacted.

Tyre packer roller: Available in 3 m and 4 m. Due to its flexible surface no soil will stick to it, resulting in a very even seedbed.