

HOPSTEIN FARMING IMPLEMENTS

Our main objective is to provide the local and rural farmer with all farming requirements at an affordable, yet effective way.

All spares are readily available, including the infrastructure to repair all products sold with exceptional service guaranteed. Below is A condensed list of products and implements we can supply i.e.

- Generators
- Mounted irrigation systems
- Rotovators
- 4 Row seed planters
- 6 Row seed planters
- 1,2m Slasher mower
- Trailer
- Brick Making Machines
- 4 – Wheel tractors
- 30hp 4x2 and 4x4
- Hammer Mills
- Diesel Engines “AgriHop”.
 - o 12Hp - 15 Hp - 20-Hp Electric
- Centrifugal pumps.
- De – Watering pump.
- Cannon & Tripod PY1 – 40
- Trailer mounted Pumps.
- Generator / welder single phase A.C.
- Service and repairs.
- Training on the use of the equipment supplied.
- Full range of Spares.

Below are various applications of the “AgriHop” Tractor, including the specifications of all the farming implements that can be used when farming.

2-WHEEL TRACTOR	IMPLEMENTS
4-WHEEL TRACTORS	4-WHEEL TRACTORS IMPLEMENTS

2-WHEEL TRACTORS

Use in a walk-behind or ride-on manner.

Incredibly versatile, with a large range of interchangeable implements.

Driven by the 12 hp diesel engine.

8 gears, 6 forward and 2 reverse. Top speed of 17 km/h.

PTO is via three V-belts.

The tractor can be used with a range of implements, many of which are featured below.

It can pull a 2,5 ton capacity trailer.

Single-tine ripper with 100 mm Ox-bit.
Maximum ripping depth of 250 mm.



IMPLEMENTS

Single-share plough, can plough over a hectare per day.
300 mm single-share plough.

Plough can be raised and lowered to adjust depth and facilitate travel to and from the field of work.
Both the ripper and plough fit onto the tool bar.

Powered disc plough is a unique item of equipment and is driven directly from the tractor gearbox.
Perfect for use in lighter sandy soils.

This plough has a third wheel and seat and can thus be used in ride-on or walk-behind functions.

Three discs rotate at approximately 100 r/min angled at 15° off the centre line of the tractor.

Tilling can be carried out at a brisk 10 km/h.

Plough to a depth of 210 mm.

The final effect is an even, billiard-table finish.

Ideal for preparation prior to planting or for tilling in between vines or orchard trees.

Double-share walk-behind plough, ideal for small kitchen gardens or for awkward or small areas.

Extremely manoeuvrable.

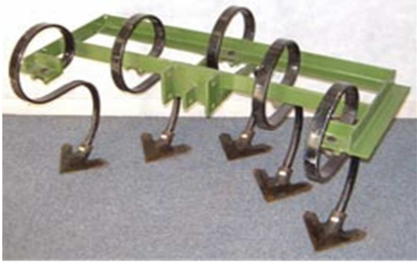
Available in 2-disc or 2-share form.



Diamond harrow, has 20 tines and attaches to the tool bar.

It is a well-known, tried and tested implement used throughout Africa.

Working width of 900 mm.



Cultivator, has 5 S-tines and attaches to the tool bar.
It is used for weeding in between crops.
Working width of 900 mm.

Ridger, attaches to tool bar.
Used to prepare ridges for growing crops such as potatoes or tomatoes where flood irrigation may be employed.
Fully adjustable working width.

Rotovator, has a third wheel and seat and can thus be used in ride-on or walk-behind functions.
Rotovation depths of up to 220 mm.
Rotovation width of up to 600 mm.
Speeds for rotovation from 1 to 12 km/h.
Two types of tine: 'chisel' for stony soils and the curved tine for more freshly turned soil.
Ideal for use in preparing seedbeds, especially in tunnels, or weeding between crops and in horse lunge arenas.



4-row planter

For large or medium sized seeds.
Attaches to tool bar.
Available with or without a fertiliser bin.



The 6-row planter

Plants 1 - 6 rows over a total width of 1,2 m.

Designed specifically for rice and wheat, but is equally effective at dispensing other small to medium-sized seed.

Effective for sowing grass seed.

Has a 48 x 100 mm tine rotovator for "fluffing up" the soil.

Drills can plant seed to a depth of up to 60 mm.

Lightweight roller seals the seedbed without compacting.



Slasher mower

Twin bladed and can be used for cutting veld grass or for lawns and fairways.

Extremely effective for cutting firebreaks, which presents good opportunities for entrepreneurs.

It is both robust and powerful.

1,2 m width and the cut height can be varied from scarifying to 80 mm.



Harvester

Specifically for cutting dry grasses such as wheat and rice.

Sickle bar of 1,3 m.

Cuts to a minimum stubble height of 60 cm.

Forms windrows, which makes it ideal for harvesting grain crops such as wheat, barley and rice.

Front mounted.

Practical operating speed of 5 km/h.



Crop sprayers

Hydraulic pump is mounted on the AgriHop tractor and can deliver up to 20 bar.
Discharges between 36 and 40 litres/min.
Working pressure is 3 MPa maximum and 1 - 2,5 MPa nominal.
The pump must always have fluid (may not operate dry).
Narrow width of tractor allows closer row spacing.
Hand spray guns are also available.



Irrigation (See section above)

Irrigation pumps with capacities of 22m³/h at 40 m head and 30m³/h at 45 m head are available.
They can be used in stationary or tractor-mounted applications.
The great advantage of having a tractor-mounted pump is that it can be driven back to a secure facility after use.
Pumps are equipped with recessed impeller and mechanical seal.
Spray cannon and tripods are also shown above.

TRANSPORTATION

2,5 ton standard trailer handles work on rough or smooth terrain.
Ideal for taking products to market, workers to the field or for collecting stone and cement for building projects.
Hitches to the AGRIHOP tractor in such a way that it forms a solid four-wheel vehicle, which is articulated in the centre. This provides added stability.
Fixed side flaps provide seating for passengers and space for larger loads.
The load bin measures 2,4 x 1,0 x 0,52 m (1.25 m³) and is provided with a removable tailgate.
The complete trailer weighs 500 kg.



The 2,5 t tipper version is exactly the same design, but is equipped with a hydraulically operated tipping device.

Flatbed trailer

1,4 x 2,45m in floor area.

Same springs, axles and tyres used as with the standard trailer.



Other special trailers.

Trailers for spreading compost.

Trailers with mounted generator sets.

Utility trailer (Kalahari).

Trailers with mounted de-watering pumps.



4-WHEEL TRACTORS

30 hp 4 x 2 and 4 x 4 TRACTORS

TRACTOR SPECIFICATIONS		300G (4 x 2)	304G (4 x 4)
Drive type		4 x 2	4 x 4
Overall dimensions: L x W x H (m)		3,17 x 1,4 x 1,5	3,4 x 1,4 x 1,5
Wheel track	Front (mm)	To steering wheel 1,56 1 030, 1 130, 1 230	1 200
	Rear (mm)	1 050, 1 150, 1 250, 1 350, 1 450	
Wheel base (mm)		1 670	1 730
Ground clearance (mm)	Under front axle	350	360
	Under rear axle	378	378
Rated traction force (N)	In dry fields	6 200	6 800
	In paddy fields	4 000	4 850
Construction mass (kg)		1 230	1 327
Minimum turning radius (m)		2,60	
Theoretical speed (km/h)	Forward	1,38, 2,23, 3,62, 6,31, 7,18, 11,56, 18,74, 32,69	
	Reverse	1,80, 9,30	
Engine type	3-cylinder, upright in-line, radiator cooled, 4-stroke, swirl chamber		
12-hour rated power (kW/hp)		22,0/27,2	
Rated fuel consumption (g/kW/h)		< 275	
Rated speed (r/min)		2 500	
Bore x stroke (mm)		90 x 95	
Total displacement (litres)		1,812	
Clutch		Linkage type, dual function	
Gearbox		(4+1) x 2, planar 3-shaft for main transmission, epicyclic gearing for auxiliary transmission	
Main drive		One pair of spiral bevel gears	

Differential		Bevel gear	
Differential lock		Jaw lock	
Final drive		Spur gear, external gearing	
Tyres	Front	5,00 - 15 (stripe pattern)	11,2 - 24 (herringbone)
	Rear	11,2 - 24 (herringbone)	
Steering gear		Full hydraulic	
Brakes		Disc brake	
Hydraulic system	Lifting capacity at 610 mm behind lift point (kg)	465	
	3-point suspension	Category: 1	
PTO shaft	Rotating speed (r/min)	540, 1 000	
	Spline size	6 35 rectangular spline	



4-WHEEL TRACTOR IMPLEMENTS

4-wheel tractors have 3-point lifts and a standard 540 r/min PTO.

Most conventional implements can be attached to the tractors.

Some of the implements that are used are shown below, including the 2,5 and 4 ton rough-terrain trailers.

DOUBLE-SHARE PLOUGH

Furrow width	200 mm	Total working width	400 mm
Ploughing depth	170 - 220 mm	Field capacity	0,14 - 0,19 ha/h
(at a speed of 4,4 - 6,0 km/h)			

14-DISC HARROW

Working width	1 300 mm	Number of discs	12
Disc diameter	460 mm	Mounting	3-point
Overall dimensions	1590 x 1230 x 830 mm	Maximum depth	100 - 140 mm
Weight	200 kg	Rear	0, 17, 20, 23
Angle of disc gangs	Front 0, 14, 17, 20		

ROTOVATOR

Tilling width	1 100 mm	Number of blades	20 or 24
Mounting	3-point	Power required	11 - 15 kW
PTO speed	540 r/min	Tilling depth	120 - 200 mm
Shaft speed	220 r/min	Working speed	8 - 10 km/h
Shaft turning radius	245 mm	Overall dimensions	800 x 1 410 x 830mm

PLANTER

Overall dimensions	1200 x 1800 x 900 mm	Power required	11 - 15 kW
Weight	185 kg	Number of rows	Up to 4
Row width	540 mm	Seeding depth	30 - 50 mm
Maximum seeding width	2 160 mm		

OTHER IMPLEMENTS AVAILABLE

AUGER

Number of different sizes up to 500 mm.

Optimum depth of 800 mm.

Ideal for drilling holes for fence poles or for planting trees, but bear in mind that the hole must be squared off prior to planting the tree to stop the roots growing in a circle.

SPRAYING SYSTEMS

The plastic 'bowser' holds 180 litres.

Horizontal or vertical spray bars can be employed.

High-pressure spray pump driven via V-belt.

0,9 m SLASHER MOWER

Standard 540 r/min PTO is used to drive a 0,9 m wide slasher mower.

2,5 ton HEAVY-DUTY TRAILER

Rough-terrain trailer.

Trailers for the 4-wheel tractors are fitted with a pneumatic braking system.

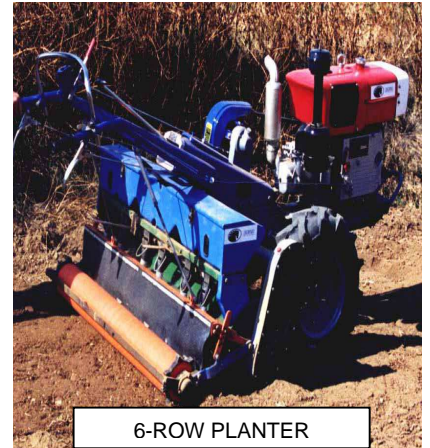
Tipper trailer is optional.



AGRIHOP



CULTIVATOR



6-ROW PLANTER



4-ROW PLANTER



TRACTOR DRIVEN MAIZE MILL

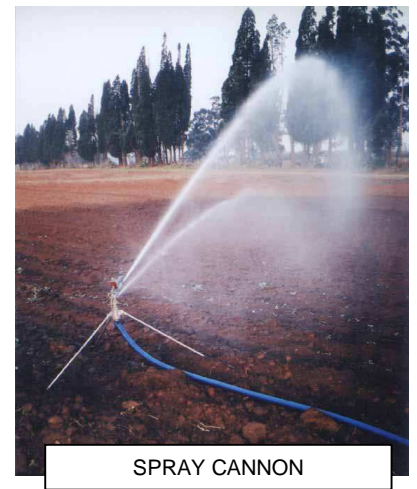


Slasher Mower



PUMP MOUNTED ON TRACTOR

Hammer Mill – Diesel engine hammer mill



SPRAY CANNON



2.5 TON CAPACITY TRAILER

ROTOVATOR

