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Perma-Agrartecnic

Seedy

MASTER OF PLANTING



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ONE BY ONE

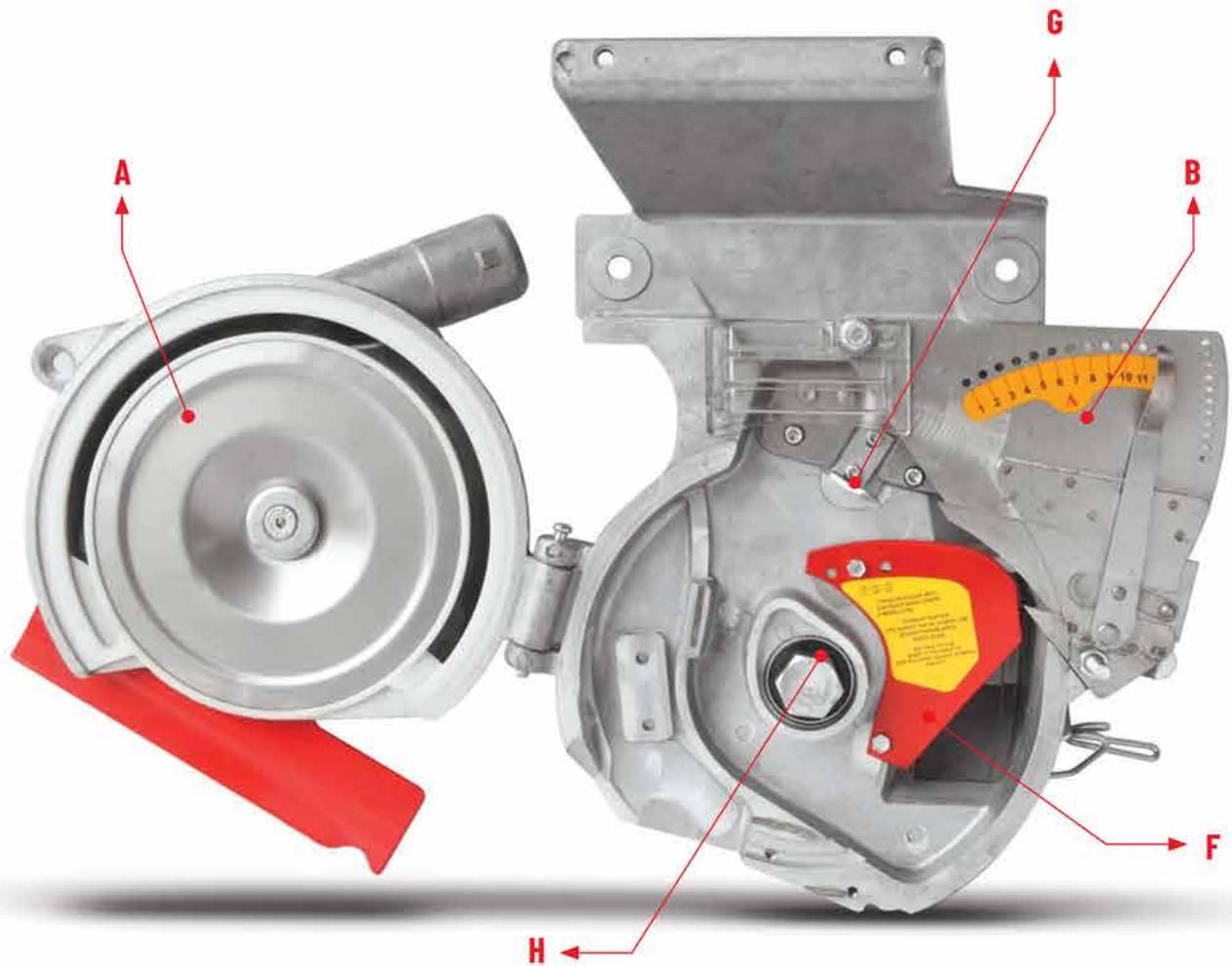
This machine which is called pneumatic precision sowing machine, is an agricultural machine which is driven only by cardan shaft and PTO shaft of the tractor and works with hydraulic lifting unit of the tractor and universal 3-point hanging system.



You can perform precision sowing and sow different kinds of seeds into all kinds of cultivated soil types with this equipment. Sowing machine operates with the help of a pneumatic system and can be equipped with various accessories such as additional sowing units such as a fertilizer tank. The most important feature of the sowing machine is the ease of use as well as the simplicity of its design.

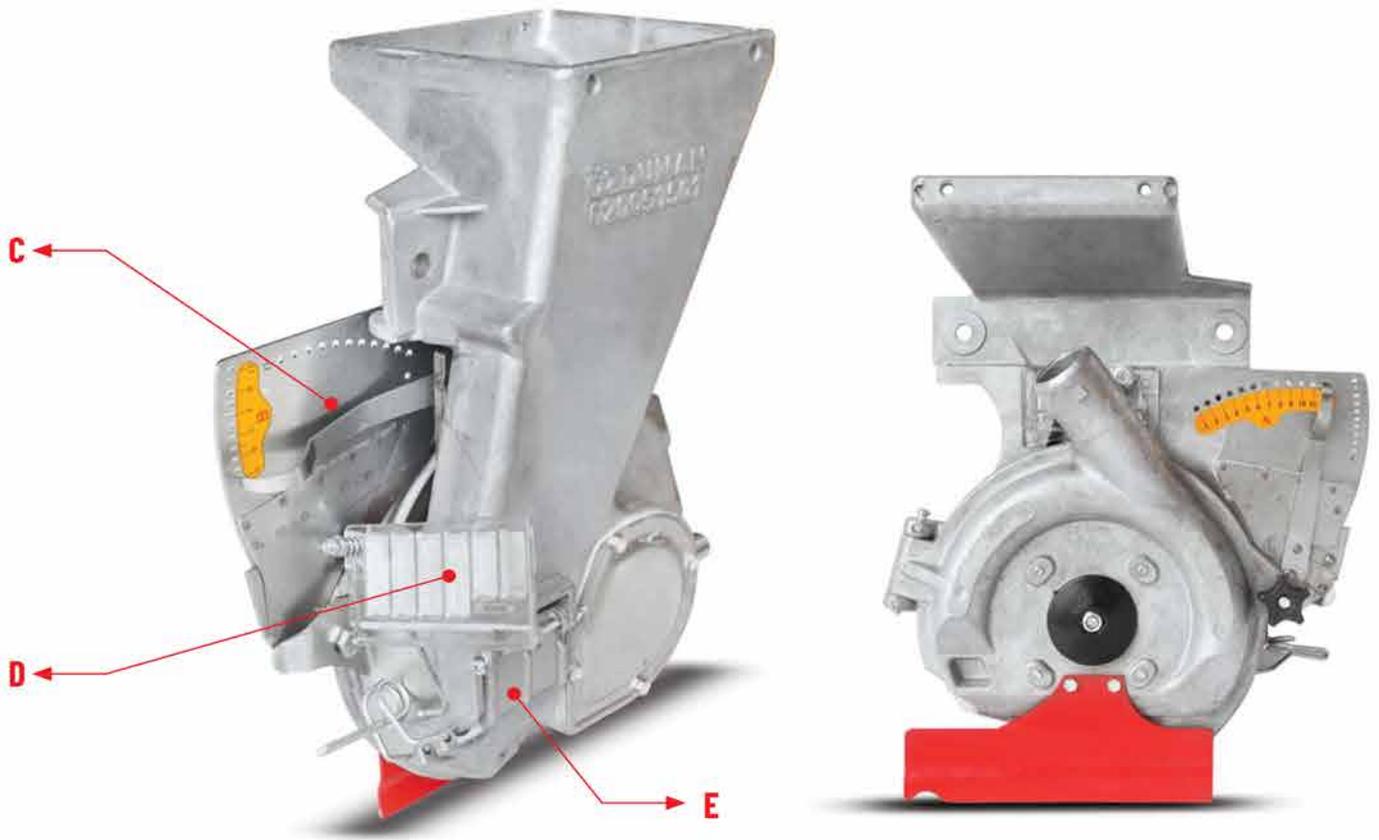
SEEDY sowing unit ensures that all kinds of seeds can be sown one by one in every soil condition due to double disc for maximum efficiency, ie. without wasting seeds.

Aluminium Unit



Perforated plates (disc) should be placed in each distributor (sowing units) suitable for the type of the seed to be sown. It should be noted that seed should not get in the disc holes. Thanks to suction (vacuum) created by the fan (aspirator), seeds are sucked and stick to the perforated plates and hold there. With the rotation of the disc, seeds that hold on to the holes go down to the bottom of the sowing unit and seeds fall to the soil with the effect of gravity after vacuum is turned off.





A | **Unit Cover**

B | **Coarse adjustment:** It is a system built in the sowing unit, which allows seeds to fall on the soil one by one precisely.

C | **Precision Setting:** It is a system built in the sowing unit, which allows small seeds to fall on the soil one by one precisely.

D | **Observability:** There is an observation window to monitor regular adhesion of the seed disc and seed.

E | **Seed Cleaning:** It provides easy cleaning of the remaining seeds in the tank at the end of sowing and while changing the seed.

F | **Curtain:** Seed flow control cover can be adjusted in different positions. Width of the seed entrance channel is adjusted and it prevents excess seed from overflowing from the distributor. This cover may need to be adjusted for the slope of the land or for small seeds.

G | **Precision Thrower:** It prevents sticking of different sizes of seeds on the disc as double and guarantees that double seeds don't fall on the soil.

H | **Stable Bearing:** It allows the disc to turn without pausing thanks to bearing placed in sowing unit.

Axe Type



- A Parallelogram:** By copying the soil surface with the help of steel arms, it allows the seeds to fall to equal height.
- B Covering The Seed:** They are mounted on the right and left sides of the sowing leg and cover the seed to prevent losing temper of the soil which is opened for sowing seed by sowing leg.
- C Seed Soil Contact:** It is made of alloy steel and it is resistant to breakage and abrasion. Thanks to its V shape, it forms a smooth sowing line and helps to open V shaped seed bed suitable for heavy soil conditions.
- D Preliminary Preparation For Seed Sowing:** It cleans the area in front of the sowing leg by scraping soil and clods in front of the sowing leg in the field which is sown and it performs ground preparation for sowing.



- E** | **Seed Tank:** 55-liter seed tank with a large volume is used for each seed variety.
- F** | **Depth Adjustment:** It provides adjustment opportunity to sow various seeds in different depths.
- G** | **Pressure Spring:** A force must be created on the ax so that the sowing unit ax can open a groove on the soil. This pressure should be reduced or increased depending on different soil types. Pressure is increased due to this system.
- H** | **Closer Wheel:** Rear wheel closes seed grooves with different settings without hardening and enables covered seed to come out of soil easily.
- I** | **Unit Lock:** To increase unit spacings for sowing technological seeds, it allow the unit to be disconnected without changing the machine design.
- J** | **Continuous Sowing:** Drive shaft which doesn't require maintenance, which has unit cancellation system and safety pin against forcing, guarantees a proper sowing.

Disc Type



- A** | **Seed Tank:** 55-liter seed tank with a large volume is used for each seed variety.
- B** | **Unit Lock:** To increase unit spacings for sowing technological seeds, it allow the unit to be disconnected without changing the machine design.
- C** | **Depth Adjustment:** It provides adjustment opportunity to sow various seeds in different depths.
- D** | **Scraper:** It is equipped with adjustable scraper that adheres to the pressure wheel and prevents it from ruining soil surface.
- E** | **Closer Wheel:** Rear wheel closes seed grooves with different settings without hardening and enables covered seed to come out of soil easily. V-type pressure wheel has 3 settings which are “press, width and crossness” and each can be adjusted individually.
By throwing dry soil to direction where seed will come out, it prevents formation of duff or in other words, duff layer on the soil to a certain extent.
- F** | **Pressure Wheel:** It prevents discs from bursting the soil while tearing discs are opening the seed bed and allows the seeds to meet at the same level.



- G** **Parallelogram:** By copying the soil surface with the help of steel arms, it allows the seeds to fall to equal height.
- H** **Pressure Spring:** A force must be created on the disc so that the sowing unit disc can open a groove on the soil. This pressure should be reduced or increased depending on different soil types. Pressure is increased due to this system.
- I** **Continuous Sowing:** Drive shaft which doesn't require maintenance, which has unit cancellation system and safety pin against forcing, guarantees a proper sowing.
- J** **Seed Soil Contact:** It helps to open V-shaped seed bed which is 373 mm in diameter and 3 mm in thickness, suitable for heavy soil conditions.
- K** **Preliminary Preparation For Seed Sowing:** It cleans the area in front of the sowing leg by scraping soil and clods in front of the sowing leg in the field which is sown and it performs ground preparation for sowing.



Seed Drop in Axle Type Seeding Unit

Thanks to the seeding unit which is axle type performs successful planting in all conditions especially in stony conditions. Depending on the small or coarse seed types, upon request can be installed different sizes of axle seed bed openers. Cast axes are made of special alloy steel casting material which will not wear easily.



Seed Drop in Disc Type Seeding Unit

In the sowing units, the seed bed is opened by discs. Each sowing unit has 2 discs made of special material. The sowing units are disc type and thanks to cutting disc which can be installed in front of the chassis can be used in the fields of processed or semi-processed conditions with residues. Thanks to the rubber wheels on both sides of the sowing units, depth adjustment can be made precisely in all kinds of soil conditions.

1st Position



2nd Position



Rear wheel closes seed grooves with different settings without hardening and enables covered seed to come out of soil easily. V-type pressure wheel has 3 settings which are “press, width and crossness” and each can be adjusted individually. By throwing dry soil to direction where seed will come out, it prevents formation of duff or in other words, duff layer on the soil to a certain extent.



It prevents discs from bursting the soil while tearing discs are opening the seed bed and allows the seeds to meet at the same level.

FAN

Seeds are enabled to adhere to the disc with vacuum effect. In this way, adhered seeds are enabled to drop on the line opened at the desired intra-row distance. Fan absorbs by means of the vanes on it by being driven by PTO shaft of the tractor.



VACUUM METER

Different vacuum values are needed for various seed types and varieties you will sow. If you don't set this vacuum value well, some problems occur. If you set low vacuum value, you may encounter problems such as failure of seeds to hold on to the disc or if the vacuum value is too high, the disc may stick to the seal because of overloading and cause motion wheels to turn difficultly. To make this value visible, vacuum meter is placed on the fan.

TRANSMISSION

In order to make intra-row setting, there is a drive wheel on the machine with transmission. You can easily adjust row spacing of the seed you want to sow with the help of gears.



DAMPER

Motion wheels move with friction force. It disrupts wheel's contact with the ground on poorly cultivated lands which are not smooth, causes wheel jamming and disrupts sowing precision. Damper adjustment enables the machine to steepen or become closer to the ground.

Adjustment of damper makes sliding into soil easier for the machine and prevents the wheel from dragging. To prevent this, wheel is manufactured as articulated and tensioned with spring. There is a stop bolt on the articulated point where the wheel is connected in order to enable the wheels to operate in the same range.

Suitable for all Conditions



TURBO DISC

Turbo discs placed in front of the discs in 330 mm diameter and in front of tearing discs in heavy soil conditions, play an important role in the preparation of suitable seed beds.



EPTH WHEEL HAVING HOLES

It prevents clogging of tearing discs in high moist and clay soil and allows regular sowing.



GARBAGE CLEANER

Garbage cleaner placed in front of the tearing disc in land with stems, scatters stems to the right and left sides and brings the seed together with the soil.



SEED PRESSURE WHEEL

After the seeds falling from the seed groove, fall on the seed bed, it applies pressure on them and brings them together with the moist soil. It is effective for especially coated seeds. Thanks to the scraper on the wheel, it prevents the seeds and soil from sticking on the wheel.

Suitable for all Conditions

PRESSURE WHEEL TYPES



CLOSER WHEEL

Rear wheel closes seed grooves with different settings without hardening and enables covered seed to come out of soil easily. V-type pressure wheel has 3 settings which are “press, width and crossness” and each can be adjusted individually. By throwing dry soil to direction where seed will come out, it prevents formation of duff or in other words, duff layer on the soil to a certain extent.



CAST WHEEL WITH NOTCHED SHEET

It provides ideal usage in the less cultivated land having stems due to its closing feature.



CAST WHEEL

It provides ideal usage in the less cultivated dry land due to its closing feature.

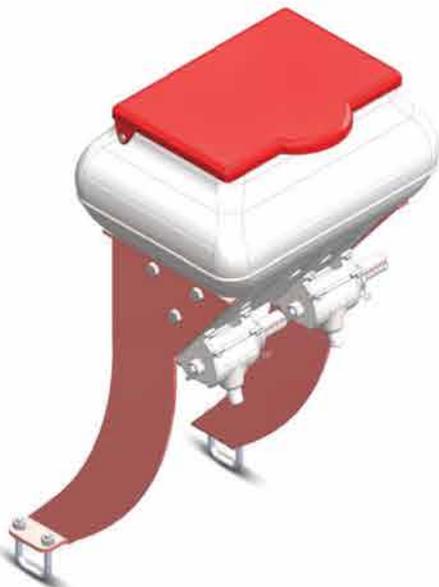


Depending on the request of the user, it enables fertilization during sowing thanks to fertilizer tanks made of plastic and inox.



MICROGRANULE TANK

16 liter microgranule tank is adapted to the machine. Microgranule which affects the development of the seed during the sowing stage, provides very low amounts of spreading.



Suitable for all Conditions

FERTILIZER DISCHARGE COVER

Discharge covers for fertilizer tank cleaning.



SIEVE

Sieve system that prevents fertilizer from jamming.

HELICALGEAR

Aluminum helical gear which ensures continuous spreading of fertilizer.



FERTILIZER ADJUSTMENT LEVER

Fertilizer adjustment lever is available to adjust fertilizer spreading rate.

SPRING AX LEG

In order to provide proper fertilizer spreading for roughly prepared soil, self-spring ax leg is placed.



FERTILIZER DISCHARGE LEVER

There is a fertilizer discharge lever on fertilizer tank. Fertilizer should be discharged completely after sowing is completed, otherwise fertilizer distributors may get clogged as the fertilizer will oxidize. This is made to eliminate this and facilitate discharging operation.



DISC FERTILIZER LEG

For roughly and precisely prepared soil types, it opens fertilizer bed with a double disc and forms a suitable fertilizer bed..

Suitable for all Conditions

INDEPENDENT HYDRAULIC MARKER

It provides easy use thanks to the independent hydraulic marker attached to the machine depending on the user's request.



DECARE METER

It allows to measure the sown land digitally in decares.

HELICAL GEAR

Aluminum helical gear which ensures continuous spreading of fertilizer.



FRONT PRESSURE WHEEL

Pressure wheel is on the front side of the sowing unit. It provides the balance of the unit together with the soil scraper and closer wheel and ensures that sower ax does not rise above the ground much.

Note:

Pressure wheel is only used for sowing beets. It can be mounted on the machine if desired.

SOWING CONTROL DEVICE

By controlling seeds falling from the units during sowing and by informing the unit in case of failure at the same time, it provides controlled sowing.



TRAFFIC SET

By making the machine manufactured in different working widths visible, it provides safe transportation.

Fixed Chassis



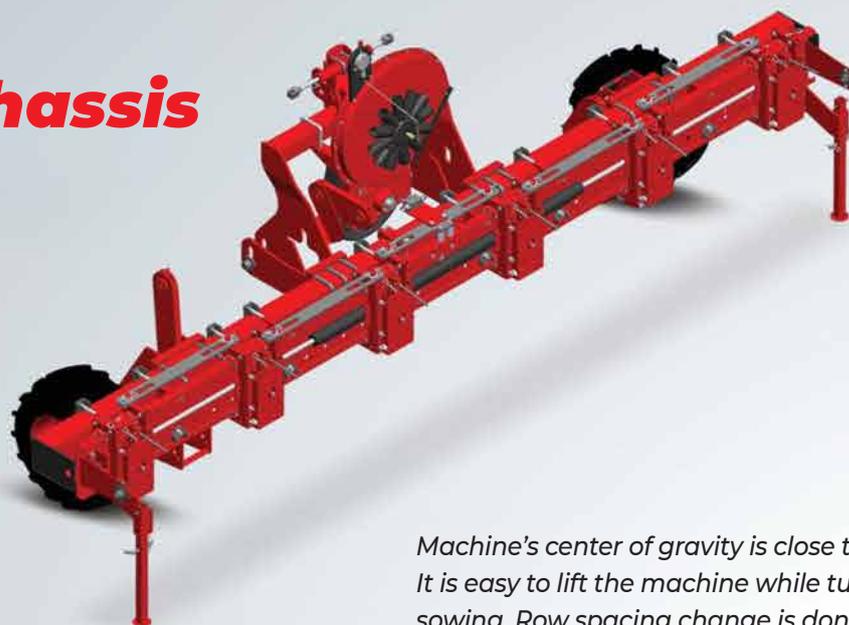
Machine's center of gravity is close to the tractor. It is easy to lift the machine while turning during sowing. Row spacing change is done manually.

	Unit	HVM 4	HVM 5	HVM 6	HVM 8	HVMD 4	HVMD 5	HVMD 6	HVMD 8
Number Of Units	Pcs	4	5	6	8	4	5	6	8
Total Length	cm	200	200	200	200	200	200	200	200
Total Height	cm	160	160	160	160	160	160	160	160
Total Width	cm	300	300	380	600	300	300	380	600
Distance Between Rows	cm	25x90							
Seed Capacity	lit.	45 x 4	45 x 5	45 x 6	45 x 8	45 x 4	45 x 5	45 x 6	45 x 8
Fertilizer Case Vol.	lit.	175 x 2	175 x 2	175 x 2	175 x 4	175 x 2	175 x 2	175 x 2	175 x 4
Fertilizer Capacity	kg	170 x 2	170 x 2	170 x 2	170 x 4	170 x 2	170 x 2	170 x 2	170 x 4
PTO (Rpm)	d/d	540	540	540	540	540	540	540	540
Weight Without Fertilizer Hopper	kg	700	850	1000	1300	950	1020	1250	1500
Weight With Fertilizer Hopper	kg	950	1100	1250	1500	1150	1220	1450	2000
Tyre Dimension	inch	500 x 15							
Min. HP	hp	60	70	80	100	60	70	80	100

Our company has the right to make changes on the machines without prior notice.



Sliding Chassis



Machine's center of gravity is close to the tractor. It is easy to lift the machine while turning during sowing. Row spacing change is done hydraulically.

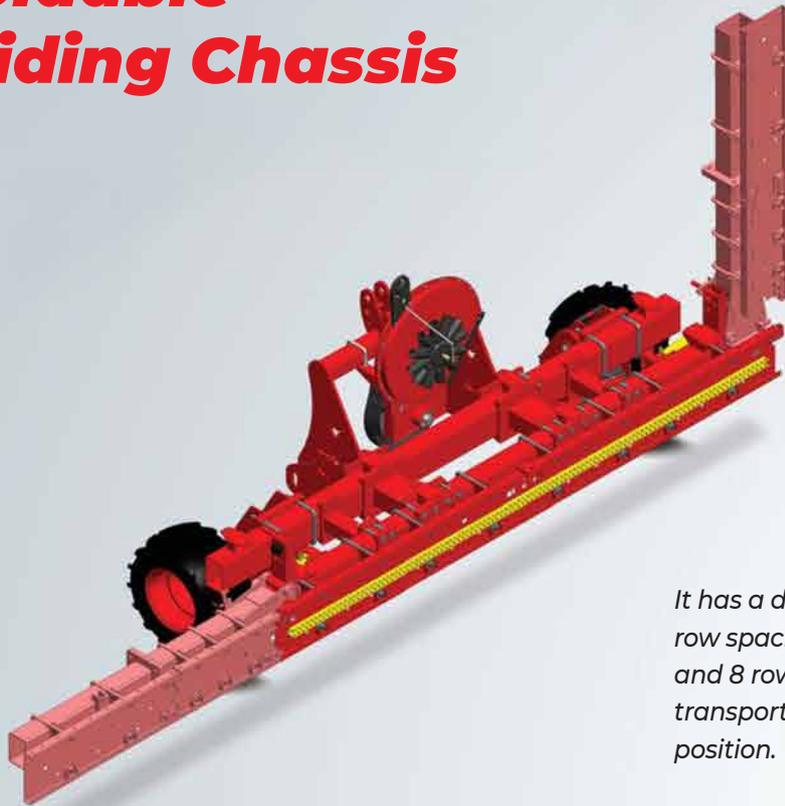


	Unit	HVM -K 5	HVM -K 6	HVMD-K 5	HVMD-K 6
Number Of Units	Pcs	5	6	5	6
Total Length	cm	240	240	240	240
Total Height	cm	160	160	160	160
Total Width	cm	350	400	350	400
Distance Between Rows	cm	45 - 70	45 - 70	45 - 70	45 - 70
Seed Capacity	lit.	45 x 5	45 x 6	45 x 5	45 x 6
Fertilizer Case Vol.	lit.	175 x 2	175 x 2	175 x 2	175 x 2
Fertilizer Capacity	kg	170 x 2	170 x 2	170 x 2	170 x 2
PTO (Rpm)	d/d	540	540	540	540
Weight Without Fertilizer Hopper	kg	1000	1160	1170	1400
Weight With Fertilizer Hopper	kg	1200	1360	1370	1600
Tyre Dimension	inch	6,5/80-12	23x10,50-12	6,5/80-12	23x10,50-12
Min. HP	hp	80	90	80	100

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Foldable Sliding Chassis



It has a design that allows to adjust the desired row spacing hydraulically for machines with 6, 7 and 8 rows and allows transition from transportation position on the road to work position.

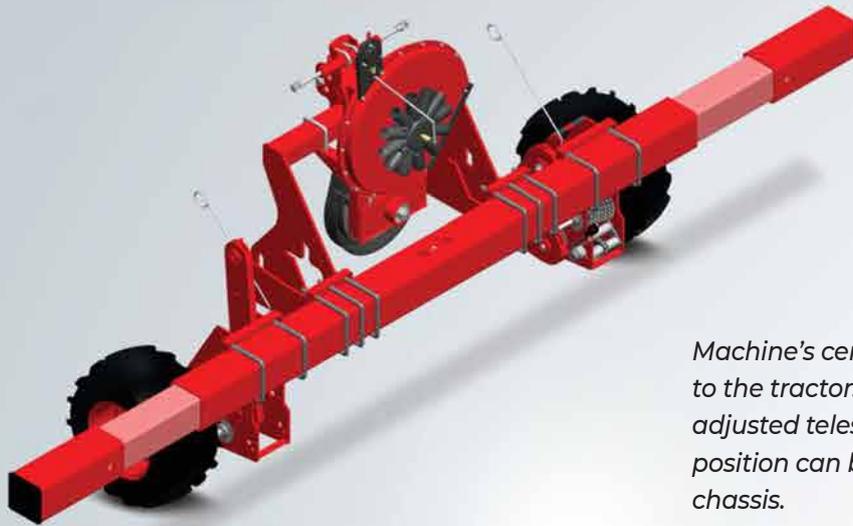


	Unit	HVMD-FK6	HVMD-FK8
Number Of Units	Pcs	6	8
Total Length	cm	245	245
Total Height	cm	250	250
Total Width	cm	438	588
Transport Width	cm	300	300
Seeding Distance (Variable)	cm	45-50-60-70-75	45-50-60-70-75
Seed Capacity	lit.	40	40
Fertilizer Capacity	lit.	900	900
PTO (Rpm)	d/d	540	540
Weight	kg	2100	2685
Tyre Dimension	inch	23x10 , 50-12	23x10 , 50-12
Min. HP	hp	120 - 140	150 - 170

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Single Telescopic Chassis



Machine's center of gravity is close to the tractor. It has a structure that can be adjusted telescopically. Work position and road position can be easily adjusted thanks to the chassis.

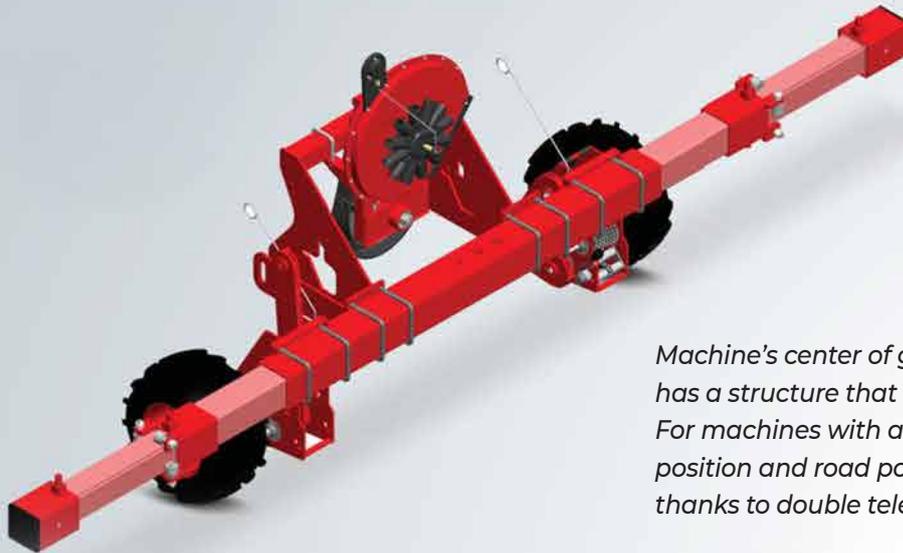


	Unit	HVM-T 6	HVMD-T 6
Number Of Units	Pcs	6	8
Total Length	cm	200	200
Total Height	cm	187	187
Total Width	cm	400	400
Distance Between Rows	cm	70 - 75	70 - 75
Transport Width	cm	320	320
Height Without Fertilizer Hopper	cm	155	155
Seed Capacity	lit.	40 x 6	40 x 6
Fertilizer Case Volume	lit.	175 x 2	175 x 2
Fertilizer Capacity	kg	170 x 2	170 x 2
PTO (Rpm)	d/d	540	540
Weight Without Fertilizer Hopper	kg	1300	1000
Weight With Fertilizer Hopper	kg	1600	1300
Tyre Dimension	inch	500 x 15	500 x 15
Min. HP	hp	90	90

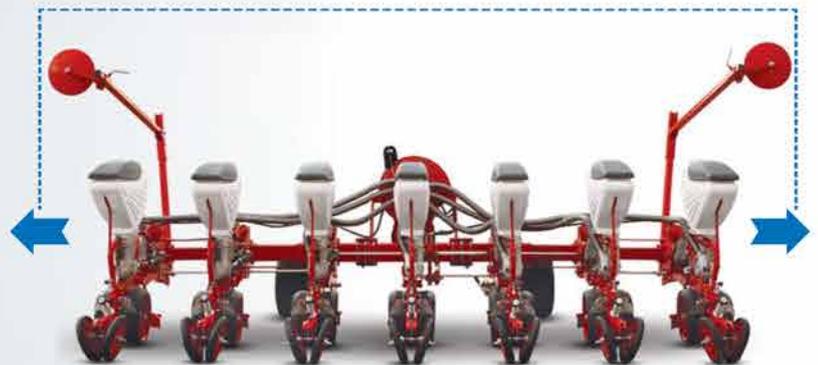
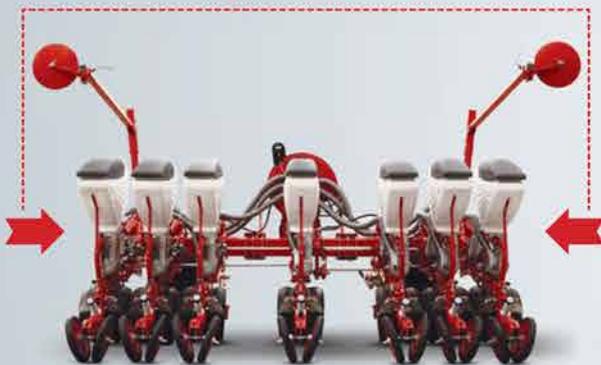
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Double Telescopic Chassis



Machine's center of gravity is close to the tractor. It has a structure that can be adjusted telescopically. For machines with a large number of units, work position and road position can be easily adjusted thanks to double telescopic chassis.



	Unit	HVM-DT 6	HVM-DT 7	HVMD-DT 6	HVMD-DT 7
Number Of Units	Pcs	6	7	6	7
Total Length	cm	200	200	200	200
Total Height	cm	187	187	187	187
Total Width	cm	400	400	400	400
Distance Between Rows	cm	70 - 75	70 - 75	70 - 75	70 - 75
Transport Width	cm	320	320	320	320
Height Without Fertilizer Hopper	cm	155	155	155	155
Seed Capacity	lit.	40 x 6	40 x 6	40 x 6	40 x 6
Fertilizer Case Volume	lit.	175 x 2	175 x 2	175 x 2	175 x 2
Fertilizer Capacity	kg	170 x 2	170 x 2	170 x 2	170 x 2
PTO (Rpm)	d/d	540	540	540	540
Weight Without Fertilizer Hopper	kg	1300	1600	1600	1900
Weight With Fertilizer Hopper	kg	1800	2100	2100	2400
Tyre Dimension	inch	23x10, 50-12	23x10, 50-12	23x10, 50-12	23x10, 50-12
Min. HP	hp	90	100	110	120

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Stubble Drill Chassis



It is a structure that allows the connection of options used for enabling the machine to sow in difficult field conditions.





Arrowed Sowing Chasis





It is the chassis that facilitate the use of machines with low horsepower but with more working width. There is a system which is attached to the tractor's draw bar and allows it to stand on two wheels while turning.

Chassis With Transportation System





It is a chassis with wider working width but made for transportation by holding from the side to avoid transportation problems on the road because of width.

Twinrow Seeding System



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AT TIME...

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BAERTSCHI dealers stock the necessary parts for your machines to minimize downtime.

Seedy

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