

SEED DRILL PRODUCTION

Made in Slovakia

 **PNEUSEJ**

.SK



PRODUCT CATALOG 2018



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HISTORY

The Agricultural Cooperation Hlohovec was established in 1976, and in addition to its standard agricultural activities, it also provides mechanical engineering with manufacturing Pneusej seed drills. The division Pneusej was founded in 1987.

The main idea behind the founding of the Pneusej machinery was to create Slovak manufactory focused on the production of high quality seeding machines, which would have met the needs of every farmer on domestic and foreign markets. Satisfying farmers' needs has become our first priority, and that is why we are constantly expanding our product range and looking for new ways for satisfying all of our customers. We currently operate on multiple markets across Europe and also in other countries around the world. We offer a wide range of seeding machines for small, medium and large farmers. In our product range we also offer machines for soil preparation and high quality spare parts.

1976 establishment of Agricultural Cooperation Hlohovec

1987 founding of division Pneusej. Beginning of seed drills production. Basic types of seed drills were manufactured, such as M and MT.

1992 rextension of product range for new types of seed drills, that were designed for combination with soil tillage equipment.

2005 extension of product range for wide working width machine MV, which was produced in 5m, 6m, 6.6m and 8m width.

2006 expansion to foreign markets.

2012 technology innovation of production factory

2016 extension of product range for combined seed drill Fantom with soil preparation, and for seed drill Venga with the special modular system.

2017 change of company identity, which brought new colors and new logo.

 PNEUSEJ pneusej PNEUSEJ

*„ Seeding
Your Future ”*

AGROTECHNICAL REQUIREMENTS

Uniform plant emergence is the key factor to achieving high yields. To get the most even plant stand, it is necessary to properly prepare the seeding bed and also to have optimal seed placement. Seed should be placed in constant depth on the bottom of seed bed, where the soil is slightly compacted, and covered with loose soil.

Seed drills Pneusej are characterized with precise seed placement and even seed distribution in each row. Sowing coulters Pneusej creates optimum shape of the furrow, and that ensures placing each seed in uniform depth. Disc coulters allows seeding in rough conditions even on field with high amount of plant residues. The press wheel slightly presses the seed onto the bottom of the seed bed, ensuring good seed to soil contact. That way, the seed has perfect conditions for even emergence and rapid growth of the root system.

Pneusej seed drills are designed not only for seeding into the prepared soil, but also for seeding in minimum tillage systems with higher amount of crop residue. Active or passive soil preparation ensures creation of optimum seed bed and perfect seed placement in one pass, with the possibility of applying fertilizers, which significantly reduces the operations and seeding time.



PNEUMATIC SEEDING SYSTEM

The pneumatic seeding system consist in dosing exact amount of seed into the stream of air. The seed is further transported to the distributor, where is evenly divided into each coulter.



The seed is stored in central hopper and is evenly distributed into all sowing coulters. The main benefit of central dosing system is visible in seeding small amount of seed, which is sowed without any seed-residue and without the necessity to constantly spread the seed across the hopper.

The pneumatic seeding system PNEUSEJ consist of ACCORD dosing unit, which is knows for precise setting of seeding rate, and optimum and even dosage. Operation of dosing unit is simple, changing seeding rate is possible anytime without the need of using any tools or without changing seed roller. For seeding very small amount of seed, it is possible to use microdosage function. Dosing unit can be driven mechanically, or electronically with the possibility to change seeding rate directly from tractors' cab.

It is possible to use pneumatic system for dosing and seed transport for machines with working width 2 to 9 m. It allows automatic tramline management and shut-off of seeding for individual coulters. Versatility, accurate dosage and ease of operation made pneumatic seeding system an essential part of modern seeding machines PNEUSEJ.



Reliability, speed, satisfaction.

SERVICE

Service activity plays a very important role in the sales of agricultural machinery. In order to provide the best service to our customers, our company offers warranty and post-warranty service. We also place great emphasis on technical and practical training of our technical staff. Service vehicles are equipped to allow service technicians to carry out as much of their work as possible directly in the farming yard of our customers.

Company PNEUSEJ works closely with the customers and ensures his satisfaction with operation of the machines. The service of our company professionally and quickly responds to Your requirements. Because the agronomic term does not wait, it is important to respond quickly not only during the season, but also through the whole year.

Wherever you need us, we or one of our business partners are available on site.





Technical support

The customer is the center of attention for Pneusej. Because, we are in close contact with our customers, we are well informed about trends in agriculture and the conditions in which our customers operate. In our tradition, active cooperation with our customers is aimed at better understanding and fulfillment all or their needs and requirements.

Original spare parts

Only original spare parts ensure safety, efficiency and reliability during operation. We offer wide range of spare parts available directly on stock with fast delivery to the customer. To ensure the high quality and durability of spare parts, we take care about the selection of quality materials with high degree of precision in production.

We guarantee the supply of spare parts even for older types of Pneusej seed drills.

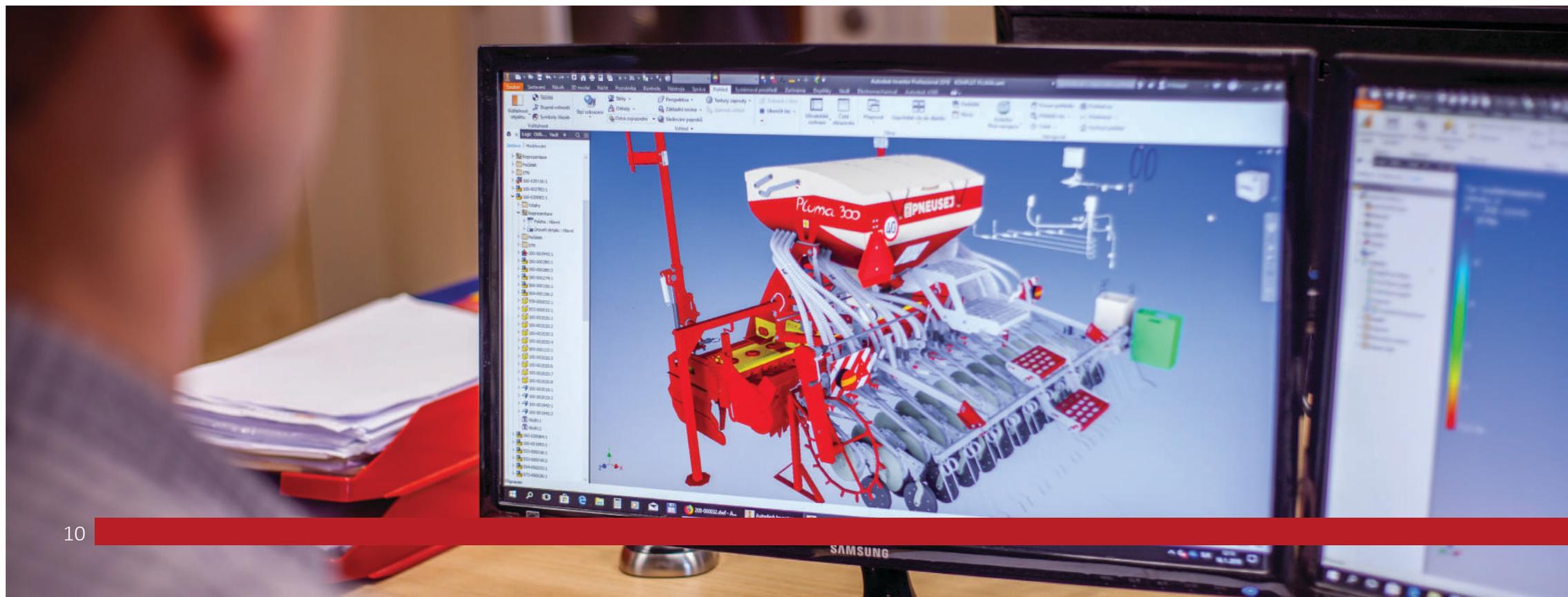


DEVELOPMENT

Development is an integral part of every company in today's dynamic time. That is why our engineering department design new solutions, new models and their parts. All those changes and modifications of seed drill are tested on land with area 4430 ha.

A great deal of testing on new machines takes place in close cooperation with farmers. This kind of shared development work is important, because feedback often leads to better improvement and a new way of thinking.

Thanks to our modern software technology, we can improve technical parameters of our machines, which makes us part of the world's leaders on the market.



PRODUCTION

Production of seed drill starts with the selection of appropriate materials. Therefore, we focus on quality of materials, which enables us to achieve excellent results in strength and durability. The latest technologies for material processing allow us to reach precision and quality that our customers require. Thanks to this, seed drills Pneusej are designed to operate in the most difficult condition.



The environment is not indifferent to us, and therefore we use the technology of surface preparation in electro-static field by powder coating and heating in oven at temperature from 180 to 200 °C. Assembly of seed drill is carried out under the supervision of specialist staff at our company's facility.



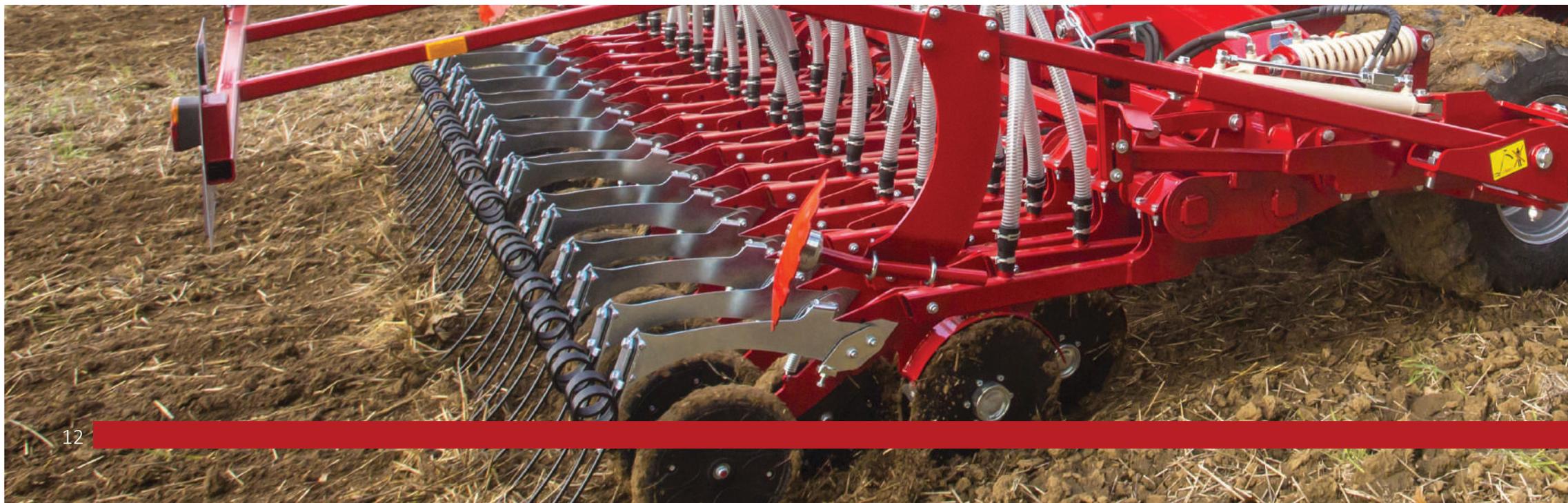
The set of all inputs to production has an impact on the quality of final products, and therefore the quality of the products and the whole production process plays a key role in the production process. In addition to production quality, we take care of the selection of our suppliers and regularly check the quality of the materials supplied.

SOWING COULTERS

The main purpose of the sowing coulters is to put the seed and fertilizer into the soil in required depth and spacing, which ensures uniform plant emergence.

In row seeding system, the furrow formed by the sowing coulters should be firmed (under the seed), and that is why it should be formed by sliding the soil with minimum layer-mixing. The furrow should be closed only after the seed have been stored securely at the set depth at the bottom of the seed bed. Its creation depends on soil properties and preparation, and also on the shape and type of sowing coulters.

According to the individual requirements and the condition of the soil, seed drills Pneusej can be equipped with different types of sowing coulters. Currently, our company offers three types of coulters: Suffolk, DXD, and DD coulters.



Suffolk coulters

Suitable for light soil types with small amount of crop residue.

DXD coulters

Designed for sowing into heaviest soils with large amount of crop residue

RC I

Suitable for: M, MSh, Pluma, MKC, MKC Magna, MT

RC II

Suitable for: Venga, DC Compact

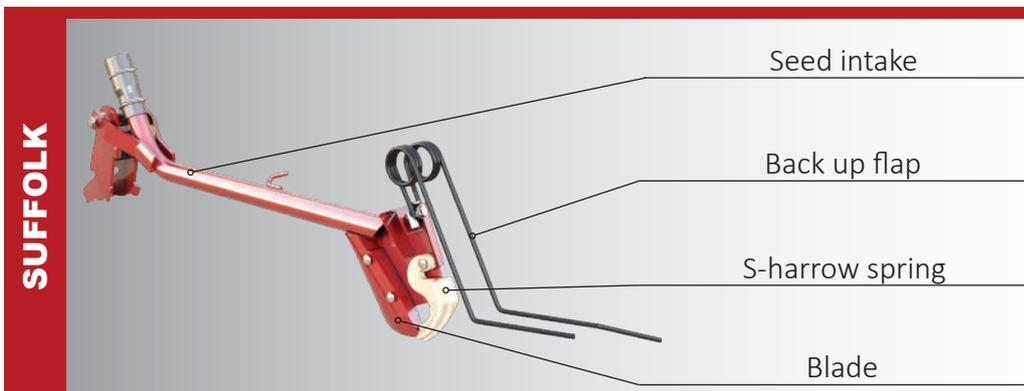
HD

Suitable for: MV

DD coulters

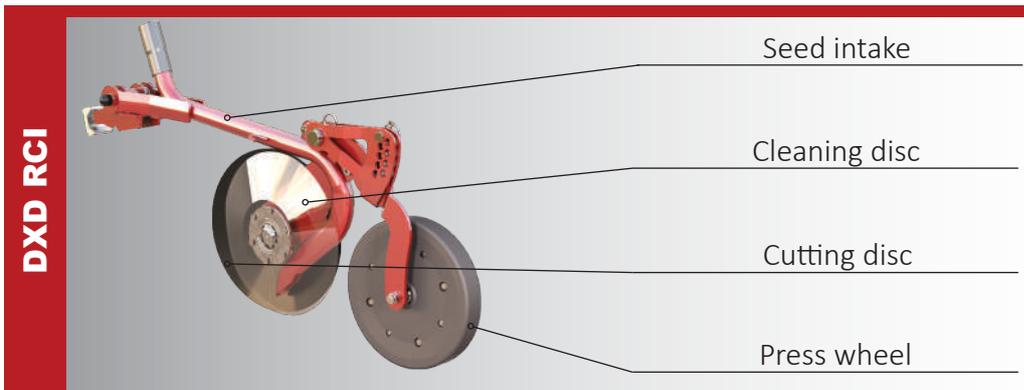
Newly designed double-disc sowing coulters, the main advantage of which is suspension with rubber silent-blocks.





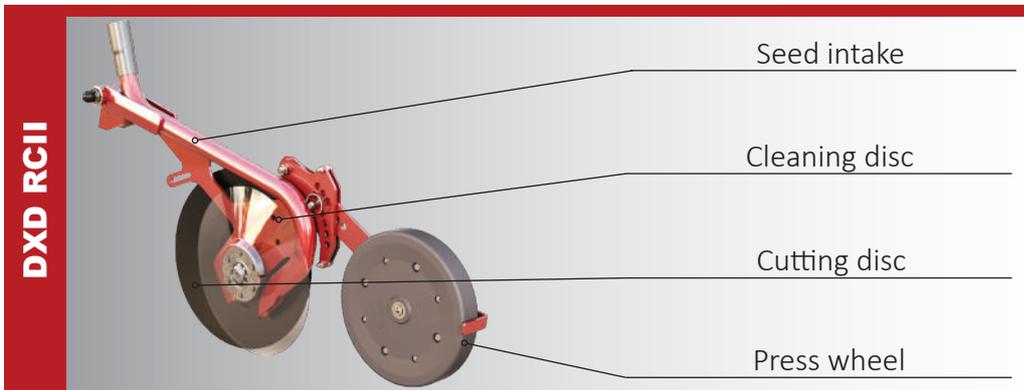
Suffolk coulters are ideally suited for conventional sowing into lighter soils with small amount of crop residue, where they easily overcome obstacles, for example stones or clods. The back up coulter flap prevents accidental coulter blockage. The wearable tip of the coulter is made of special cast iron and is easily replaceable.

- Coulter pressure 27 kg/coulter
- Back up coulter flap
- S-harrow spring
- Suitable for: M, MSh, Pluma, MKC, MKC Magna, MT, MV



DXD sowing coulters are designed for conventional or minimum-tillage sowing in the heaviest soils with large amount of crop residue. Forward disc shifting avoids sticking up the soil on discs and clogging the coulters. Disc diameter is 300 mm.

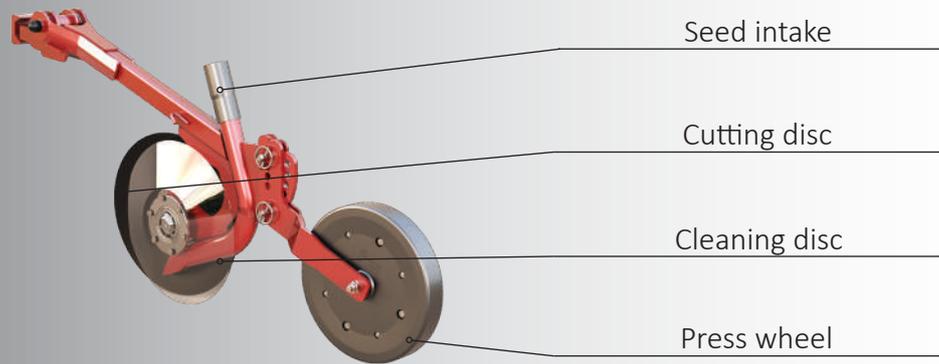
- Coulter pressure 27 kg/coulter
- Press wheel
- Central and individual coulter pressure adjustment
- Suitable for: M, MSh, Pluma, MKC, MKC Magna, MT



DXD sowing coulters are designed for conventional or minimum-tillage sowing in the heaviest soils with large amount of crop residue. Forward disc shifting avoids sticking up the soil on discs and clogging the coulters. Disc diameter is 325 mm.

- Coulter pressure 50 kg/coulter
- Possibility of metal or plastic cleaning disc
- Central coulter pressure adjustment
- Suitable for: Venga, DC Compact

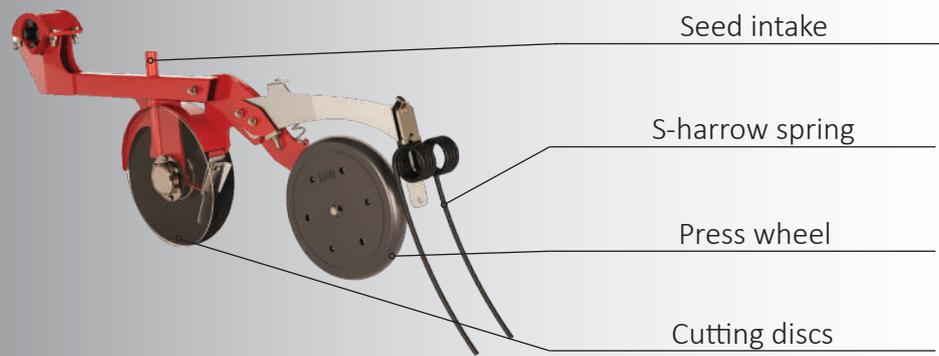
DXD HD



DXD HD differs from DXD RC I in design, where the seed input is at the back of the coulters and they have a square profile. Disc diameter is 300 mm.

- Coulter pressure 35 kg/coulter
- Press wheel
- Central and individual coulters pressure adjustment
- Suitable for: MV

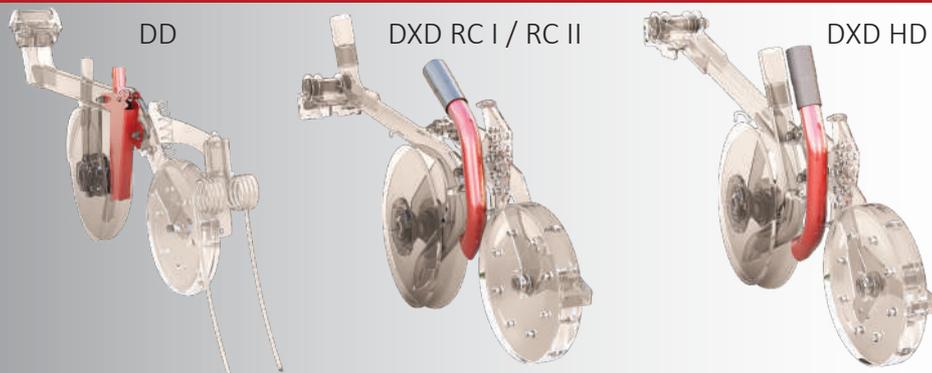
DD



Coulters are suspended with rubber silent-blocks. The length of coulters are the same for the whole working width, which ensures equal pressure on every coulters. Coulters are equipped with press wheels, which help to precisely guide the coulters even at higher speeds, resulting in accurate seeding depth.

- Coulter pressure 120 kg/coulter
- Press wheel
- Disc scrapers
- Suitable for: Fantom, Optimus

FERT APPLICATOR



Suitable for use with sowing coulters DXD and DD. The applicator is a part of the press wheel and is mounted behind the sowing coulters. Fertilizer is applied together with seed in one row. The fertilizer applicator is suitable for machines: M 300-400, MKC 300-400, MKC Magna 300-400, Pluma 250-300, FT Fert 300-400.

ELEKTRONICS

Electronic systems have become an important part of crop production in modern farming, because they have made many new technologies practices available. Sensors and control technologies enables considerable time savings and help to improve effectivity and increase yields. At the same time, they save the environment.

Electronic devices provide information about worked area, working speed, fan speed, and control of seeding together with automatic tramline management. Currently, we use electronic devices from Müller Elektronik, RDS/ Topcon and for blockage control Digitroll.



Drillmat III

Electronic device Drillmat III is user-friendly for its simple and logical control. It is designed for seed drills with mechanical drive of dosing unit. A very compact monitor requires little space in the tractor cab.

Drillmat III offer the following features:

- Fan speed alarm
- Dosing unit rotation alarm
- Seed level alarm
- Electronic hectare counter
- Working speed
- Automatic tramline management (electromagnetic valves)



Drill - Control

Drill-Control offers the control of a single dosing unit with an electric motor. Simple and accurate calibration is done using the calibration button. The system allows the operator to adjust seeding rate during the seeding directly in the cab. The electronic is equipped with preparation for mounting preemergence tramline markers.

Drill-Control offers the following features:

- Electronic drive of dosing unit
- Radar for working speed measurement
- Fan speed alarm
- Dosing unit rotation alarm
- Seed level alarm
- Electronic hectare counter
- Automatic tramline management (electromagnetic valves)



RDS iSOCAN Artemis

iSOCAN Artemis is a flexible system especially suited for controlling pneumatic seed drills with electric drive of two dosing units. The system is ISOBUS compatible and offers possibility of connecting up to 4 electric motor. Touch-screen terminal offers user control the device and to display all information about the machine operation. Using iSOCAN Artemis, it is possible to shut-off half of the seeding width or increase or decrease the seeding rate anytime during work.

RDS iSOCAN Artemis offers following features:

- Electronic drive of dosing unit
- Radar for working speed measurement
- Fan speed alarm
- Dosing unit rotation alarm
- Seed level alarm
- Electronic hectare counter
- Automatic tramline management (electromagnetic valves)
- Displaying working speed
- Shut-off of half working width through terminal





Digitroll

Electronic devices from Digitroll are designed to monitor the seed flow across individual coulters. The electronic is equipped with speed sensor that automatically recalculates the required seed flow, when changing the working speed. This leads to prevent any false alarm.

Calibretta is suitable for seed drill to control seed flow and blockage with 24 – 36 coulters.



Calibra is suitable for seed drill to control seed flow and blockage with 40 – 64 coulters.



Integra is designed to monitor seed and fertilizer flow on seed drills with 24+24k 32+32, 40+40, 48+48 coulters. In addition to seed flow monitoring, it also offers seed level sensing in hopper, fan speed measuring, electronic hectare counter, measurement of dosing unit rotations, and tramline management.



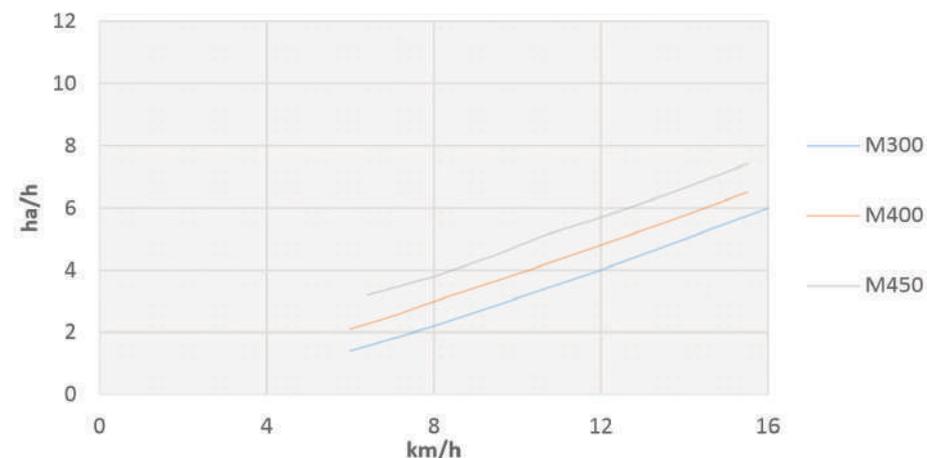
SEED DRILLS

Seed drill PNEUSEJ M

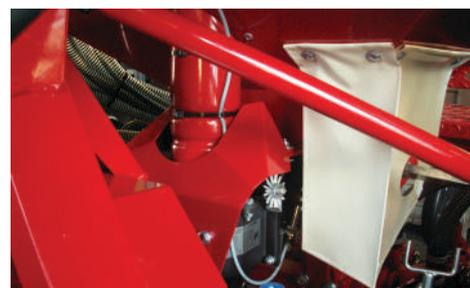
Machine designed for small and medium farms. The placement of the center of gravity near the tractor reduces the power requirement. The machine is connected through three-point hitch directly to the tractor or to the tillage equipment, semi-mounted during work on its own axle. As standard, the machine is equipped with a mechanical fan drive (540 RPM or 1000 RPM). Volume of seed hopper is 1150 liters.

Seed drill PNEUSEJ M is produced with rigid frame and coulter bar in working width 3 m – 4 m – 4,5 m. It is possible to equip the machine with wide tires with dimension 26x12-12”.

Type	M 300	M 400	M 450
Working width (m)	3	4	4,5
No. of rows/ row width (cm)*	20/15	24/16,7	28/16
	24/12,5	28/14,3	32/14
		32/12,5	36/12,5
Hopper capacity (l)	1150	1150	1150
Min. weight without seed (kg) from*	880	1000	1060
Power requirement (HP)	60	80	90
Recommended speed (km/h)	5-12		



*with using DXD RC I





M 450



Small farm



Mounted version



Hopper 1150 l



From 880 kg



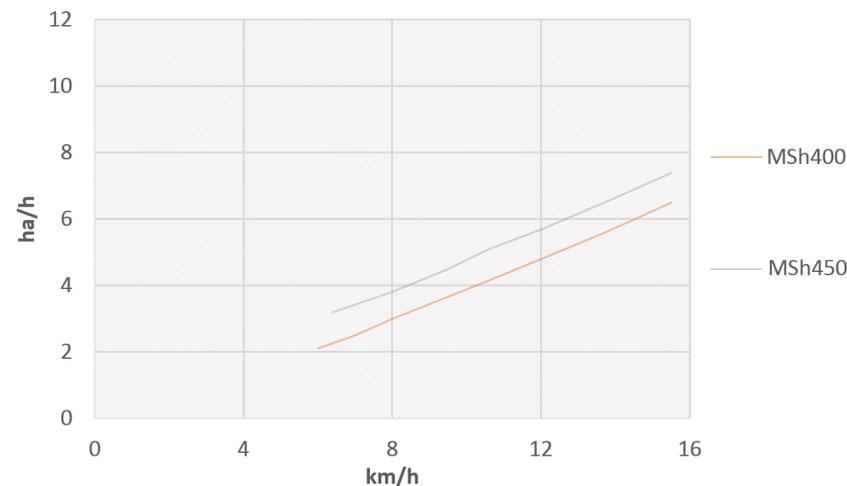
Min. 60 HP

Seed drill PNEUSEJ MSH

Machine identical in design with model Pneusej M. Its main advantage is hydraulically folding frame and coulter bar to 3 m transport width. As standard, the machine is equipped with a mechanical fan drive (540 RPM or 1000 RPM). Volume of seed hopper is 1150 liters. It is possible to equip the machine with wide tires with dimension 26x12-12”.

Seed drill PNEUSEJ MSh is produced in working width 4 m – 4,5 m.

Type	MSh 400	MSh 450
Working width (m)	4	4,5
No. of rows/ row width (cm)*	24/16,7 32/12,5	32/14 36/12,5
Hopper capacity (l)	1150	1150
Min. weight without seed (kg) from*	1080	1190
Power requirement (HP)	80	90
Recommended speed (km/h)	5-12	



*with using DXD RC I





MSH 450



Small farm



Mounted version



Hopper 1150 l



From 1080 kg

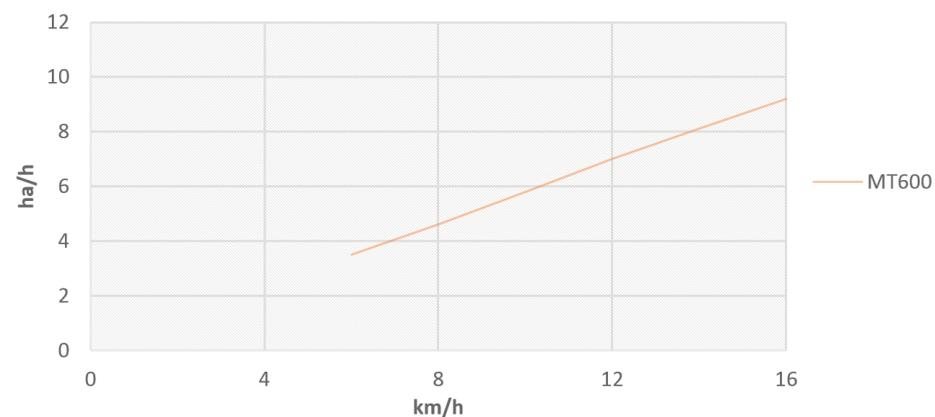


Min. 80 HP

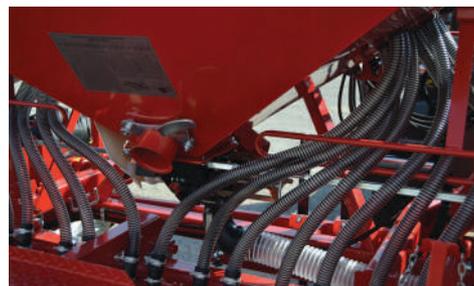
Seed drill PNEUSEJ MT

This machine is designed for medium and large farms. As standard, the machine is equipped with a mechanical fan drive for 1000 RPM. Farmers will appreciate large volume of hoppers (2 x 1150 liters) and working width 6 m with use of low power tractors. The semi-mounted seed drill is connected to the tractor with quick-attached A-frame. The machine is equipped with a drawbar for parallel transport as standard.

	Type	MT 600
Working width (m)		6
No. of rows/ row width (cm)*		40/15 48/12,5
Hopper capacity (l)		2x 1150
Min. weight without seed (kg) from*		1790
Power requirement (HP)		120
Recommended speed (km/h)		5-12



*with using DXD RC I





MT 600



Medium farm



Mounted version



Hopper 2x1150 l



From 1790 kg



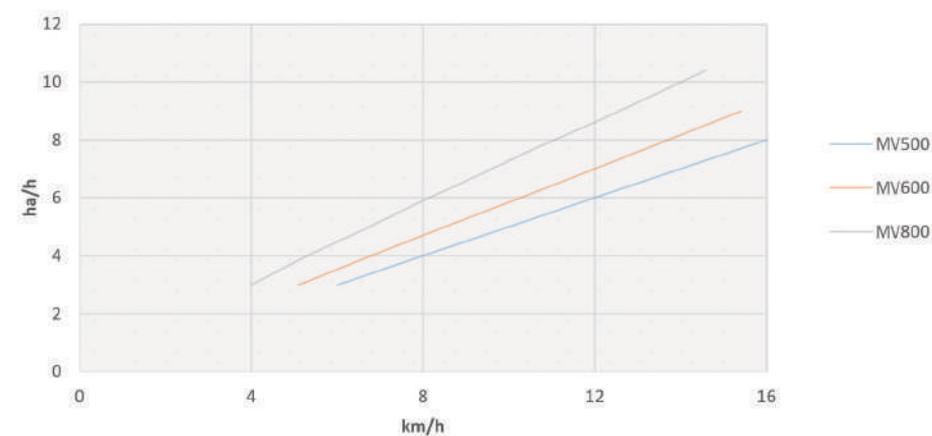
Min. 120 HP

Seed drill PNEUSEJ MV

The pneumatic seed drill MV is an ideal machine for medium and large farms looking for a cost-effective way to seed with high accuracy in conventional tillage practice. Seed drill Pneusej MV is produced in working width 5 m – 6 m – 8 m with foldable frame for 3 m transport width, and can be connected with three-point hitch with a tractor or with a machine for soil preparation. A big advantage is use of large tires with dimension 31x15,5-15”.

Seed drill is equipped with two dosing units Accord with centrally adjustable seeding rate.

Type	MV 500	MV 600	MV 800
Working width (m)	5	6	8
No. of rows/row width (cm)*	36/13,8	40/15	56/14
Hopper capacity (l)	2000	2000	2000
Min. weight without seed (kg) from*	2020	2110	2520
Power requirement (HP)	160	160	180
Recommended speed (km/h)	5-12		



*with using DXD RC I





MV 600



Large farm



Mounted version



Hopper 2000 l



From 2020 kg

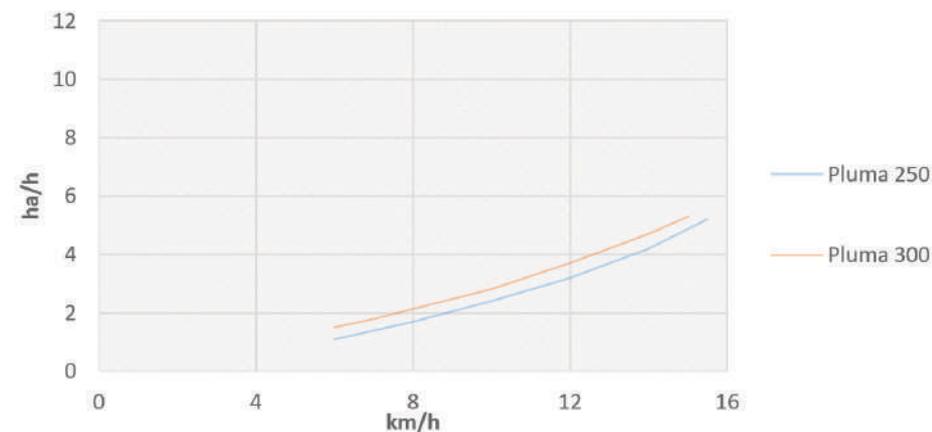


Min. 160 HP

Seed drill PNEUSEJ PLUMA

Lightweight model designed for combination with active or passive soil cultivation machines is primarily designed for small farms. The working width is 2,5 m or 3 m. Mechanical coulter pressure can be adjusted centrally. The capacity of hopper is 850 liters. It is possible to use the machine separately with the use of universal chassis, that can be connected with quick-attach A-frame. Seed drill Pluma can be combined with PPK or PSK power harrows.

Type	Pluma 250	Pluma 300
Working width (m)	2,5	3
No. of rows/ row width (cm)*	20/12,5	20/15 24/12,5
Hopper capacity (l)	850	850
Min. weight without seed (kg) from*	750	760
Power requirement (HP)	115	130
Recommended speed (km/h)	5-12	



*with using DXD RC I





SEED DRILL

PLUMA

PLUMA 300



Small farm



Mounted version



Hopper 850 l



From 750 kg



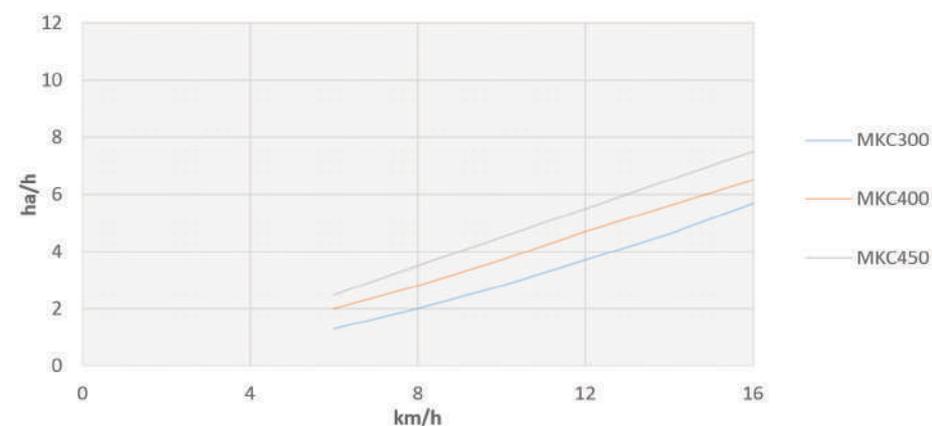
Min. 115 HP

Seed drill PNEUSEJ MKC / MKC- MAGNA

Seed drill MKC is designed for combination with active or passive soil cultivation machines, primarily for small and medium farms. The seed drill is produced in working width 3 m – 4 m – 4,5 m. As standard, the machine is equipped with a 1150 liters hopper, with a possibility to choose increased capacity of 1300 or 1600 liters. It is possible to use the machine separately with the use of universal chassis, that can be connected with quick-attach A-frame. Seed drill MKC can be combined with PSK power harrow.

Robust design of seed drill MKC-Magna ensures good performance under hard conditions. The machine is connected to power harrow or universal chassis for solo seeding, with the use of quick-attach A-frame. The seed hopper has capacity of 1600 liters as standard, and the working width is 3 m – 4 m – 4,5 m.

Type	MKC/Magna 300	MKC/Magna 400	MKC/Magna 450
Working width (m)	3	4	4,5
No. of rows/ row width (cm)*	20/15	24/16,7	28/16
	24/12,5	28/14,3	32/14
		32/12,5	36/12,5
Hopper capacity (l)	1150/1600	1150/1600	1150/1600
Min. weight without seed (kg) from*	1140/1210	1200/1280	1250/1340
Power requirement (HP)	140	160	180
Recommended speed (km/h)		5-12	



*with using DXD RC I





Small farm



Mounted version



Hopper 1150/1600 l



From 1140/1210 kg



Min. 140 HP

Seed drill PNEUSEJ FT1 / FT FERT

Seed drill designed for small and medium farms. An essential advantage of the machine is even weight distribution, which helps to decrease power requirement of the tractor by 20 percent. Seed drill FT1 offers several possibilities of use with seed and fertilizer application. FT1 is primarily designed for combination with Pneusej seed drills.

Front tank FT1 – for seeding is a front mounted seed hopper with capacity 1100 liters, combined with rear mounted coulters. It is possible to add the hopper capacity for another 60 liters. The rear part is produced in working width 3 m – 4 m.

	Type	FT1 300	FT1 400
Working width (m)		3	4
No. of rows/ row width (cm)*		20/15	24/16,7
		24/12,5	28/14,3 32/12,5
Hopper capacity (l)		1100+600	1100+600
Min. hopper weight without seed (kg) from*		480	480
Min. coulter weight without seed (kg) from*		580	640
Power requirement (HP)		110	150
Recommended speed (km/h)		5-12	

*with using DXD RC I

Front tank FT1 – for fertilizer is a front mounted hopper designed as a fertilizer tank with a combination with precision planters (max. 8 rows) and with machines for soil tillage up to 6 m working width. Hopper surface as well as parts of dosing unit are produced to withstand different types of fertilizer.

	Type	FT1 300	FT1 450
Working width (m)		3	4
Hopper capacity (l)		1100+600	1100+600
Min. weight without seed (kg) from*		480	480
Power requirement (HP)		110	150
Recommended speed (km/h)		5-12	

Front tank FT FERT is a machine, that can be used as a combination with PNEUSEJ seed drill for application fertilizer in one row with seed. FT Fert consist of front mounted fertilizer tank, distributor attached to seed drill in the rear part, and delivering tubes. Fertilizer is dosed in front hopper and delivered to the distributor, where it is divided and applied to each row with special outlets. FT Fert is compatible with seed drills PNEUSEJ MKC 300, MKC 400, MKC- Magna 300, MKC- Magna 400, M 300, M 400, Pluma 250, Pluma 300.

Front mounted wheels with platform ensures even weight distribution to the whole tractor width.

	Type	FT Fert 300	FT Fert 400
Working width (m)		3	4
No. of rows (pcs)*		20, 24	24, 28, 32
Hopper capacity (l)		1100	1100
Min. weight without seed (kg) from*		560	570
Power requirement (HP)		110	150
Recommended speed (km/h)		5-12	



Small farm



Mounted version



Hopper 1100 l



From 480 kg



Min. 110 HP

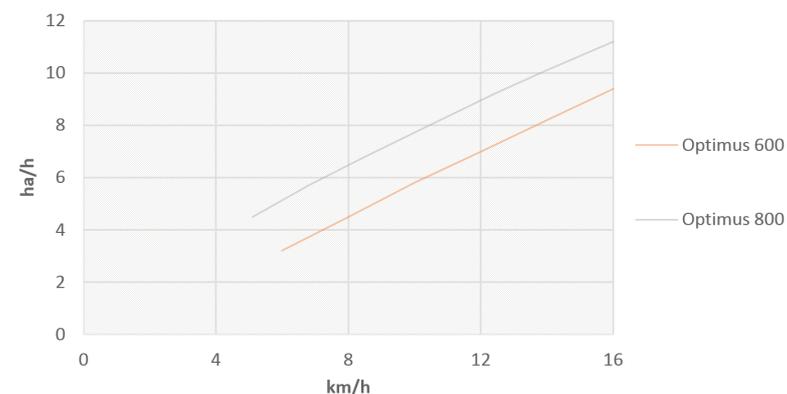
Seed drill PNEUSEJ OPTIMUS

Powerful, efficient, flexible trailed seed drill designed under condition from farmers to increase field efficiency together with lowering power requirement. Farmers will appreciate flexibility of this machine, which can be used in several variants:

- Hopper with capacity 4600 liters for seed, connected with hydraulically foldable coulter bar with DD coulters with working width 6 or 8 m.
- Hopper with capacity 4600 liters divided in two parts (2400 liters for seed, 2200 liters for fertilizer) connected with hydraulically foldable coulter bar with DD coulters with working width 6 m, equipped with fertilizer applicators.
- Hopper with capacity 4600 liters for fertilizer connected with 6 – 8 – 12 row precision planter.

Type	Optimus 600	Optimus 800
Working width (m)	6	8
No. of rows/ row width (cm)*	40/15 48/12,5	54/15 64/12,5
Hopper capacity (l)	4600	4600
Min. weight without seed (kg) from*	5600	6940
Power requirement (HP)	140	180
Recommended speed (km/h)	5-12	

*with using DD coulters





OPTIMUS 600



Large farm



Trailed version



Hopper 4600 l



From 5600 kg



Min. 140 HP

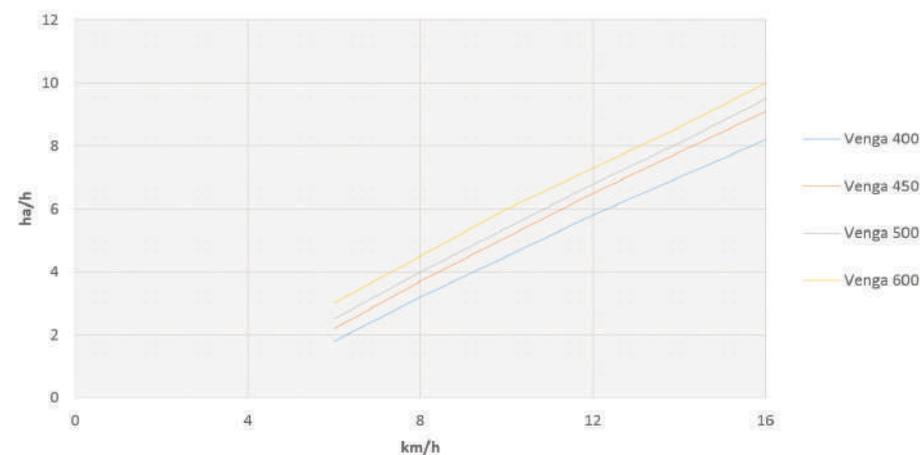
Working width 6 m = 120 HP

Seed drill PNEUSEJ VENGA trailed/mounted

Seed drill designed to meet the requirement of every farmer. Pneusej Venga is a lightweight machine with completely new design. Thanks to modular design the machine is produced in two versions – trailed and mounted. Using integrated hydraulic axle in trailed version, the power requirements are decreased, making this machine suitable for tractors from 80 HP.

New design offers the possibility to use DXD RC II coulters, which put the seed into the bottom of seed bed with high precision. Pneusej Venga is designed to increase field efficiency together with lowering power requirements. Pneusej Venga – reduces inputs, increases yields.

Type	Venga 400	Venga 450	Venga 500	Venga 600
Working width (m)	4	4,5	5	6
No. of rows/ row width (cm)*	24/16 32/12,5	30/15 36/12,5	32/15 40/12,5	40/15 48/12,5
Hopper capacity (l)	1800	1800	1800	1800
Min. weight without seed - Trailed (kg) from*	1560	1660	1760	1960
Min. weight without seed - Mounted (kg) from*	1440	1540	1640	1840
Power requirement – Trailed (HP)	90	100	115	120
Power requirement – Mounted (HP)	140	140	160	160
Recommended speed (km/h)	8-12			



*with using RC II coulters



NEW

SEED DRILL

VENGA



VENGA 600



Medium farm



Trailed version



Mounted version



Hopper 1800 l



From 1560/1440 kg



Min. 90/140 HP

Seed drill PNEUSEJ VENGA trailed/mounted



Modular system

Modular system allows production of this machine in trailed or mounted version. Integrated hydraulic axle carries the entire machine weight, which reduces tractor power requirements. Axle is placed in front of coulters, which provides better stability and control, and seeding from the edge of a field.



Hopper

The seed hopper with capacity of 1,800 liters minimizes downtime. Great accessibility makes filling and cleaning easy. Self-rolling covering canvas enables whole filling opening, preventing it to obstruct during filling with big-bags.



RC II coulters

Innovative design of DXD RC II coulters allow seeding in the heaviest soils with high amount of crop residue. Offset of discs with diameter \varnothing 325 mm causes self-cleaning effect, which reduces sticking the soil to discs and minimizes clogging. Centrally adjustable coulters pressure is 50 kg. Customers can choose between metal and plastic cleaning disc, depending on seeding conditions.



Dosing system

Centrally located ACCORD dosing unit allows to accurately adjust seed rate. Good accessibility ensures easy setup and calibration. Dosing unit drive is handled by an automatic switching system based on the position of the axle. Pnusej Venga can be equipped with electronic drive of dosing unit.



Disc markers

Farmers will appreciate the design of markers, that allow seeding under trees and other obstacles. The disc diameter together with fully adjustable disc angle ensures visible marking even in the hardest conditions. Special construction ensures quick folding, which reduces turn-time on headland and makes it easier to seed around obstacles.



Operator comfort

Comfort of the operator includes centrally adjustable coulter pressure, simple macro and micro seed rate adjustment, convenient access to the hopper and its filling. Farmers will also appreciate high field efficiency with low power requirement and simple operation. All of these factors made seed drill Venga a unique machine.

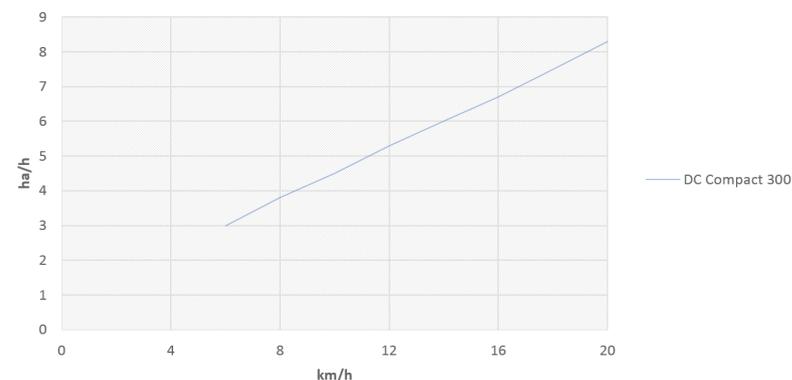
Seed drill PNEUSEJ DC COMPACT

The modified seed drill concept has been designed as an inspiration from customers, that demanded a compact mounted seed drill with soil preparation. Basis of this combination is seed drill MKC 300, which has a strong position in our product range, and its functionality is proven with years of use by many customers. The main design changes include new coulter bar with DXD RC II coulters and press wheels, innovated S-harrow bar, and elongated parallelogram arms.

The seed drill combination is characterized with high working speed up to 20 kph. One of the biggest advantage is also the use of this combination as 3 in 1:

- Combination of seed drill with disc harrows
- Combination of seed drill with universal chassis for solo seeding
- Combination of seed drill with power harrow PSK 300

Type	DC Compact
Working width (m)	3
No. of rows/ row width (cm)*	20/15 24/12,5
Hopper capacity (l)	1150 (1300)
Min. weight without seed (kg) from*	2940
Power requirement (HP)	170
Recommended speed (km/h)	10 - 20
Diameter of working discs (ø mm)	460 or 510



*with using RC II coulters



NEW

SEED DRILL

DC COMPACT



Medium farm



Mounted version



Hopper 1150 l



From 2940 kg



Min. 180 HP

Seed drill PNEUSEJ DC COMPACT



Hopper and operator platform

Seed drill is equipped as standard with a 1150 liters hopper with the possibility to increase the volume on 1300 liters. Operator platform ensures convenient access to the hopper, which makes it easier and more secure to fill and clean the machine. Large filling opening is equipped with a sieve to catch any types of dirt, and its dimensions offers high comfort during filling.



Disc soil preparation

Passive soil preparation with disc cultivator allows use of the machine with high speed even in fields with high amount of crop residue. Special disc shape with a diameter \varnothing 460 or \varnothing 510 mm together with separately suspended holder ensures maximum throughput without clogging.



RC II coulters

Innovative design of DXD RC II coulters allow seeding in the heaviest soils with high amount of crop residue. Offset of discs with diameter \varnothing 325 mm causes self-cleaning effect, which reduces sticking the soil to discs and minimizes clogging. Centrally adjustable coulters pressure is 50 kg. Customers can choose between metal and plastic cleaning disc, depending on seeding conditions.



Tillage depth settings

For creation of optimum seed bed, it is very important to set the proper tillage depth, which can be adjusted up to 15 cm. The tillage depth can be adjusted using hooks on the guide arms, that are located on the side of seed drill. The tillage depth adjustment is very simple and accessible to the operator.



Roller

Roller mounted on disc harrow serves as a support to the machine and to keep proper tillage depth. As standard, the machine is equipped with cage roller with diameter \varnothing 550 mm, or rubber roller with diameter \varnothing 500 mm.

- Rubber roller is designed for lighter soils. The distribution of rubber rings is the same as row spacing, which prepares equal conditions for every coulter
- Cage roller is designed to work in heavier soils. The rolling resistance is low thanks to its large diameter. It is made out of 16 pipes with a diameter \varnothing 38 mm



Hydraulic fan drive

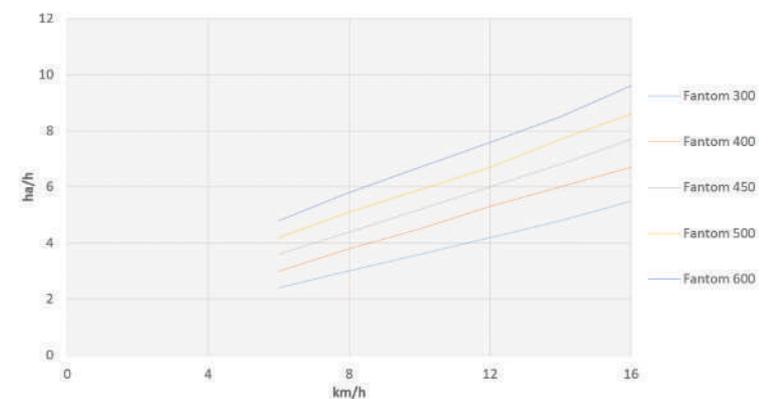
Increases operator comfort, controllability and durability of ventilator. Hydraulic fan drive limits fan speed fluctuations and the consequent coulter clogging. It is possible to combine it with tractors with or without oil flow control.

Seed drill PNEUSEJ FANTOM

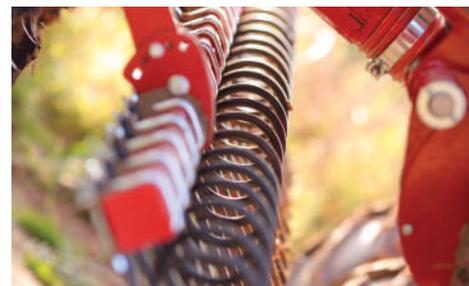
Seed drill designed for achieving maximum efficiency. Pneusej Fantom is designed to minimize working operations and to place the seed with maximum precision. Passive soil preparation allows higher working speed and work with large amount of crop residue.

Thanks to equal weight distribution on pneumatic roller, the surface of the soil is straightened and equally compacted. One pass perfectly prepares seed bed. Pnusej Fantom creates equal conditions for every single seed.

Type	Fantom 300	Fantom 400	Fantom 450	Fantom 500	Fantom 600
Working width (m)	3	4	4,5	5	6
No. of rows/ row width (cm)*	18/16,7 24/12,5	24/16,7 32/12,5	36/12,5	30/16,7 40/12,5	36/16,7 48/12,5
Hopper capacity (l)	3400	3400	3400	3400	3400
Min. weight without seed (kg) from*	3350	4720	5450	5870	6860
Power requirement (HP)	130	160	180	190	240
Recommended speed (km/h)			8-15		



*with using DD coulters



NEW

SEED DRILL

FANTOM



Large farm



Trailed version



Hopper 3400 l



From 3350 kg



Min. 130 HP

Seed drill PNEUSEJ FANTOM



Hopper

As standard, the machine is equipped with hopper with capacity of 3400 liters for seed, which minimizes downtime. It is possible to extend to capacity by 1400 liters with additional fertilizer hopper.

Possibility of fertilizer application:

- Behind DD coulter with fertilizer applicator
- Applying fertilizer in front of first tillage discs



Disc-harrow soil preparation

Passive soil preparation with disc cultivator allows use in environment with large amount of crop residue. The special shape of discs with diameter \varnothing 460 mm or \varnothing 510 mm along with separately suspended console allows maximum material throughput. Spring harrow bar located directly behind the discs prevents creating of lumps and straightens the soil surface.



Pneumatic roller

Wide tires evenly compact the soil and contribute to the seedbed consolidation. The design of pneumatic roller limits plugging, and that helps to increase throughput of the seed drill. Integrated lifting axle improves stability on public roads.



Track tillers

It is possible to equip the machine with track tillers or a smoothing harrow bar, which are located in the front section of seed drill.

- Track tiller eradicate compacted soil behind tractor tires
- Smoothing harrow bar levels the soil surface



DD coulter

Disc coulters DD are newly designed type of coulters, that ensure precise seed placement at the bottom of seedbed. Rubber suspension creates the possibility of continuous pressure adjustment.

Rubber press wheels helps to precisely maintain the seeding depth even at higher speeds. DD coulter are designed to precisely place the seed. Coulter pressure is 120 kg.



Dosing unit

Centrally located dosing system ACCORD enables accurate seeding rate adjustment. Easy access ensures simple calibration and settings. Dosing unit drive can be **mechanical** using stepping wheel, or with **electromotor**.

MACHINES FOR SOIL TILLAGE

Disc harrows PNEUSEJ DC 300

The main advantage of disc harrows DC 300 is separate suspension of every disc, allowing the perfect surface copying. The disc diameter is specified during ordering, currently, two types of disc diameters are available- \varnothing 460 mm or \varnothing 510 mm, which are taken from seed drill Fantom.

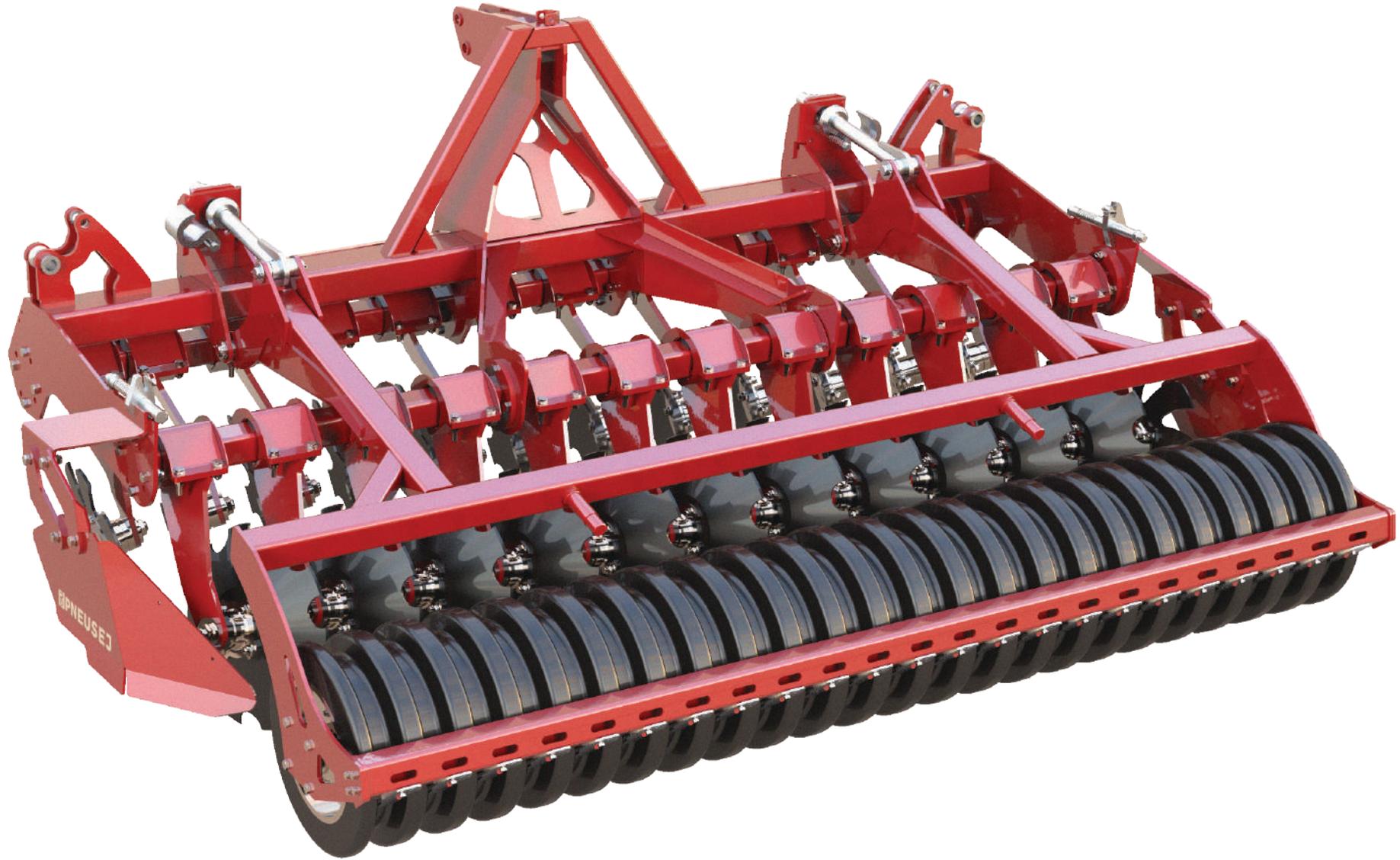


The working depth of discs is up to 15 cm. Disc harrows can be equipped with a cage roller or rubber roller and are connected to the tractor with category 3 three-point hitch. Disc soil preparation allows working in fields with high amount of crop residue. Special disc shape together with separately suspended disc console allows maximum material throughput.

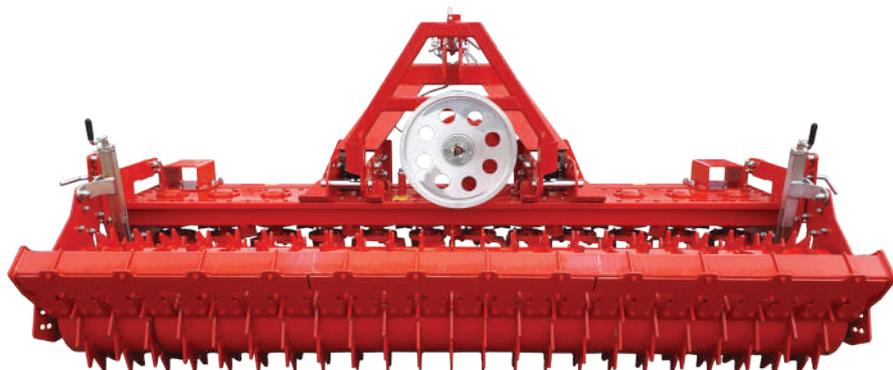
Type	DC 300
Working width (m)	3
Working depth (cm)	do 15
Min. weight (kg) from	1800
Power requirement (HP)	120
Recommended speed (km/h)	10 - 20
Diameter of working discs (\varnothing mm)	460 alebo 510

Cage roller with a diameter \varnothing 550 mm is suitable for use in heavier soil. Rubber roller with diameter \varnothing 500 mm is suitable for use in lighter soil.





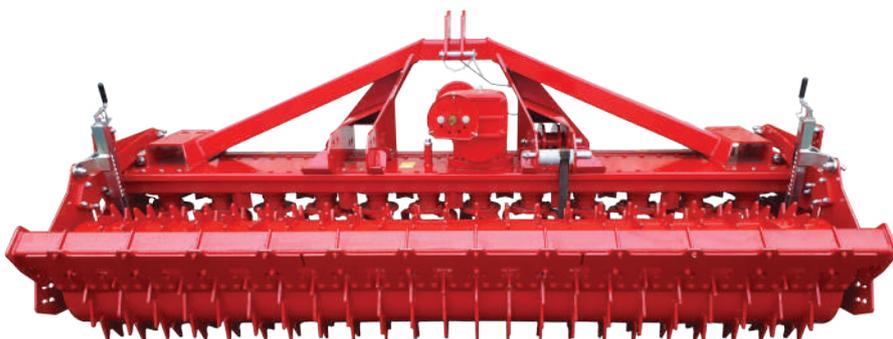
Power harrow PNEUSEJ PPK a PSK



Pneusej PPK

Represents category of light power harrows for tractors up to 120 HP. Power harrow PPK are suitable for seed drill Pneusej Pluma with working width 2,5 or 3 m and are equipped with multi-speed gearbox for 540 or 1000 RPM. The movable side plates ensure proper terrain copying and prevent throwing soil to sides. Working depth is adjustable up to 25 cm using rear roller either hydraulically, or manually with pins.

Floating bottom linkage category II guarantee trouble-free surface copying. Smoothing harrow located between rotary blades and roller smooths the soil surface. It is possible to equip the power harrow with rubber roller with diameter \varnothing 500 mm, packer roller \varnothing 550 mm, cage roller \varnothing 480 mm or knife roller \varnothing 490 mm, and stone protection as additional equipment.



Pneusej PSK

Represents category of heavier power harrows for tractors up to 200 HP. Power harrow PSK are suitable for seed drill Pneusej MKC, MKC Magna and Pluma and are equipped with multi-speed gearbox for 1000 RPM. The movable side plates ensure proper terrain copying and prevent throwing soil to sides. Working depth is adjustable up to 30 cm using rear roller either hydraulically, or manually with pins. Blades are attached with bolts as standard, or with additional with quick-release mechanism.

Floating bottom linkage category II guarantee trouble-free surface copying. Smoothing harrow located between rotary blades and roller smooths the soil surface. It is possible to equip the power harrow with rubber roller with diameter \varnothing 500 mm, packer roller \varnothing 550 mm, cage roller \varnothing 480 mm or knife roller \varnothing 490 mm, and stone protection as additional equipment.



Seedbed cultivator PNEUSEJ PKA

Seedbed cultivator PKA is an alternative of power harrow for combined soil preparation up to 12 cm depth. It is suitable for combination with seed drill Pluma, MKC or MKC Magna with working width 3 or 4 m.

The cultivator consists of 20 or 27 spring tines mounted in three rows. Working depth can be adjusted using rear roller. The machine is equipped with a smoothing bar in the front.



Type	PKA 300	PKA 400
Working width (m)	3	4
No. of tines (ks)	20	27
Tine spacing (cm)	15	15
Working depth (cm)	do 12	do 12
Power requirement (HP)	100	120
Weight with packer roller (kg)	1020	1230
Weight with crosskill roller (kg)	1420	1690
Weight with bar roller (kg)	870	1030
Weight with cage roller (kg)	800	960

Movable plates ensure terrain copying and prevents throwing soil to the sides. It is possible to choose different types of rear roller, for example cage roller \varnothing 450 mm, beam roller \varnothing 410 mm, crosskill roller \varnothing 400 mm or packer roller \varnothing 470 mm.



OTHER AGRICULTURAL MACHINES

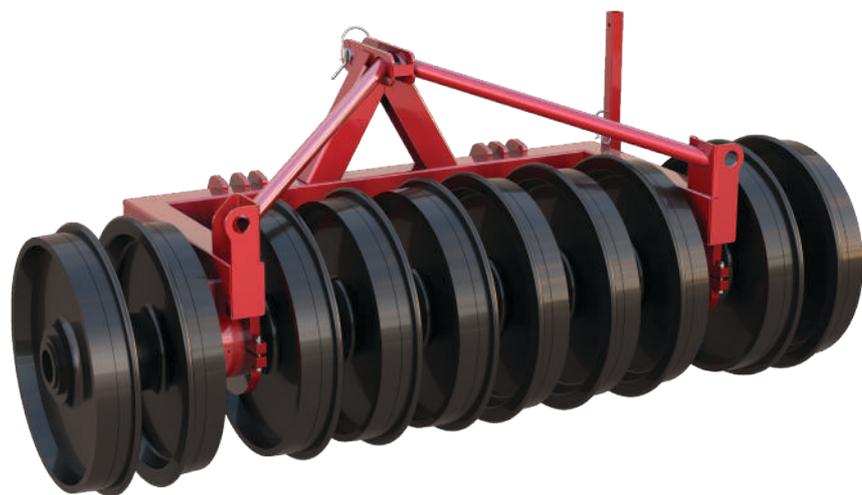
Silage compactor PNEUSEJ UK

Silage compactor provides even compaction of whole area of the silage pit, including edges. Its high weight ensures perfect compaction and destroying air pockets, which helps to increase silage quality.

Advantages:

- Even compaction of whole area of the silage pit, including edges
- Better compaction of silage thanks to high weight
- Destroying air pockets, improving fermentation process
- Better silage quality
- More fluent silage process

Type	UK 6	UK 8	UK 8	UK 10	UK 12
No. of wheels (pcs)	6	8	8	10	12
Width (mm)	3000	2600	3000	3000	3580
Length (mm)	1230				
Weight (kg)	2400	3100	3100	3800	4500





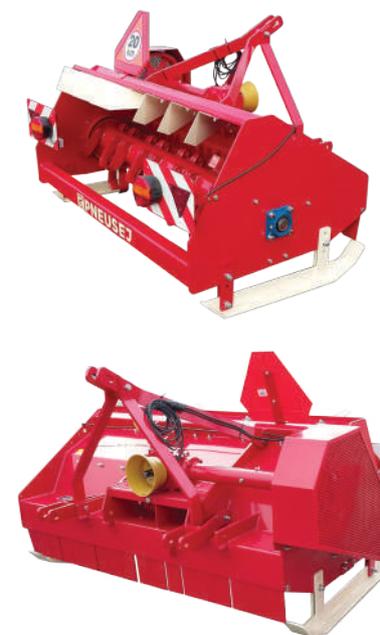
Mulcher PNEUSEJ DU-170

Universal mulcher DU-170 is designed to crush all type of straw, postharvest residues, annual shoots in vineyards and for mulching weed.

To increase the efficiency of the mulcher, it is equipped with two rows of counter blades with the same quality with matched shape as the mulcher cover. Counter blades are welded into blocks and are replaceable. At the front, the mulcher is equipped with hanging plates, which allows the material to enter the mulcher, but prevent it to fly back, which also increases the safety and efficiency of mulching. Width of throwing the material is adjusted by the angle of deflecting wings from 1,7 to 6 m. The rotor is held in place with pivot bearings and is mounted with changeable "S" shaped knives.

The drive of the mulcher is done with PTO shaft and gearbox equipped with a freewheel, which prevents the rotor torque from returning to tractor.

Type	DU-170
Working width (mm)	1700
Efficiency (ha/h)	1 – 3 based on conditions
Branch mulching (cm)	up to \varnothing 2
Width (mm)	1975
Spread width(m)	1,7 – 6 (adjustable)
Rotor rotations (RPM)	2106 (PTO - 540 RPM)
Max. slope (°)	11°
Power requirement (HP)	80
Weight (kg)	640
Max. transport speed (km/h)	20
Max. working speed (km/h)	15





ADDITIONAL EQUIPMENT

3-step stair



Is suitable for types M, MSh, MV, MT, and provides a convenient and secure availability of the seed hopper. Thank to the stair, even filling with bags is not a problem.

4-step stair



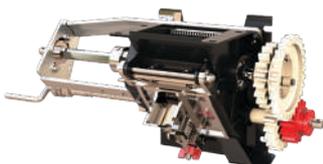
Is suitable for types Pluma and Venga and provides a convenient and secure availability of the seed hopper. Thanks to the stair, even filling with bags is not a problem.

Brake of drive wheel



Serves to stop the dosing unit when the machine is lifted up (on headland) to prevent overseeding. It is suitable for seed drills M, MSh, MV and mounted version of Venga.

Dosing unit in rustles modification



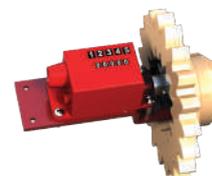
May be used on machines for fertilizer application.

Double coulter pressure



Double coulter pressure for DXD RC I increases down force to 37 kg.

Mechanical hectare counter



Serves to keep track of sown area in hectares. Advantage is ease of use and durability.

Hydraulic coulter pressure



Provides central coulter pressure adjustment directly from tractors' cab. Indicator of coulter pressure is located in the front and it's visible from the cab.

Front packer wheel (4 pcs) with platform



Provides balanced weight distribution on whole width of tractor. Suitable for seed drill FT.

Hydraulic drive of ventilator improves operating comfort, handling and durability of ventilator. Variations in ventilator speed are low and that prevents clogging of coulters also with the possibility to adjust rotation speed. The main advantage is the possibility of easy aggregation with other machines for soil preparation. Maximum allowed pressure in return flow is 5 bars, minimum oil flow is 43 liters/min, operating pressure is 150 bars.

Hydraulic drive of ventilator for all tractors



Is used for tractors without the possibility of oil flow adjustment from tractors' cab. In this case, the oil flow is regulated directly on seed drill using special control valve. Return of hydraulic circuit is equipped with quick coupling PPV3.2019.113 BSP 3/4" (DN20), which has to be connected to free return overflow of tractors' hydraulic reservoir.

Hydraulic drive of ventilator for tractors with valve for flow control



Is used for tractors, where it is possible to adjust oil flow directly from the tractors' cab. Return of hydraulic circuit is equipped with quick coupling PPV3.2019.113 BSP 3/4" (DN20), which has to be connected to free return overflow of tractors' hydraulic reservoir.

Hydraulic quick coupling



PPV3.2019.112 BSP 3/4" (DN20) is recommended to order with hydraulic drive of ventilator if the tractor is not equipped with this coupling on free overflow return.

Quick attach A-frame



Is used for connection of seed drill and machines for soil preparation (for example power harrows). It is produced according to the type of machine for soil preparation. Suitable for seed drills Pluma, MKC and MKC Magna.

Hydraulic lifting of stepping wheel



For front tank FT offers the opportunity to start or interrupt drive of dosing unit without the need to lift the front three-point hitch.

Reduction cover of distributor



Is used to double or triple the row spacing. Big advantage is simple use.

ADDITIONAL EQUIPMENT

Hanging scale



With stainless steel hook for sowing rate control. The 11 mm LCD display ensures good readability. Tare button and data-hold function complete the list of features. Auto-off function switches the scale off after three minutes. Weight range is up to 15 kg, with a readability 20 g.

Reduction cover for shut down of ½ machine



Is used when it is necessary to turn off half of the machine width (for example during first pass used for tramline management). Suitable for seed drills M, MSh, Pluma, MKC, MKC Magna, FT1, Venga and Fantom.

Hopper extension for FT



Increases hopper capacity for 600 liters on FT.

Beam of S-harrow springs



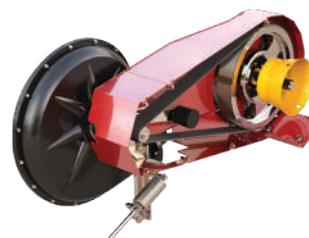
Takes care of optimal seed covering even in a condition with high amount of crop residue. Big advantage is adjustment of angle and pressure of harrows.

Universal chassis for solo seeding with track tillers



Designed for possibility of use machine as solo, with a possibility to mount hydraulic disc markers on chassis frame. Suitable for seed drills Pluma, MKC, MKC Magna, DC Compact.

Mechanical drive – micro grooved belt



Mechanical drive of ventilator for 540 RPM without centrifugal clutch. Suitable for machines M, MSh and Venga.

Mechanical drive – V-belt



Mechanical drive of ventilator for 540 RPM without centrifugal clutch. Suitable for machines Pluma, MKC, MKC Magna and Fantom.

Pre-emergence markers



Marking tracks used as tramlines before seed emergence for use of preemergent fertilizer and pesticide application and are controlled with electronics.

Pre-emergence markers for Fantom



Marking tracks used as tramlines before seed emergence for use of preemergent fertilizer and pesticide application and are controlled with electronics.

Smoother for pneumatic roller for Fantom



Smoothing the tracks made by pneumatic roller.

Spring harrow for Fantom



Smooths surface and improves soil structure.

Track tillers for Fantom



For seed drill Fantom used for cultivating soil behind tractor wheels.

Front smoothing harrow for Fantom



For rough soil surface smoothing.

DEALERSHIP

Pneusej is a dynamically developing company focused on production of seeding machines. Currently, it operates in European Union and other countries all over the world, and is constantly expanding its business activities.



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