

New at



PRO-HORTI
Horticultural Contracting Exhibition

International Trade Fair of Agricultural Mechanisation

polagra 2010
P R E M I E R Y

TRACTORS • MACHINES • SEEDS • CHEMICALS FOR AGRICULTURAL APPLICATIONS

AG BAG Polska Sp. z o.o.

AG BAG Grain Bagger

AG BAG Grain Bagger machine is designed for bagging and storage of dry and wet grain (including food grains) and various wet food industry by-products. The technology ensures inexpensive and flexible storage of valuable crops without high capital investment into silos or warehousing facilities.

AG BAGGER CT8

AG BAGGER CT8 machine is designed for composting organic matter, although, alternatively, it can be used for packaging, for instance, whole sugar beet to plastic sleeves. Sugar beet is one of most effective substrates for biogas production on condition that it can be safely stored throughout the year. AG BAG technology ensures packaging and year-round storage of the valuable substrate in plastic sleeves. The machine can be driven by a tractor or it can be equipped with its own drive motor.

Krampe's Bandit

Krampe's BANDIT farm trailer has a rubber bidirectional moving floor. Therefore, the load can be safely, easily and carefully loaded and unloaded without hydraulic cylinders and pushers. The rubber floor is driven by two motors located at the front and the back of the machine. The unit has significantly lower kerb weight, which translates into savings of 1.2 to 1.9 ton. Thus, it can be used for transporting heavier materials, such as soil or sludge.

AGCO Sp. z o.o.

Valtra S-series

The new line of large Valtra S-series tractors includes five models with power ranging from 270 to 370 HP. The base and heart of the new S-Series is AGCO Sisu Power engine (known as Sisu Diesel so far) 8,4CTA-4V and AGCO Variable Transmission (AVT). AGCO variable transmission (AVT) is a proven technology that lets tractor operators improve work in many ways. The S-series introduces advanced selective catalytic reduction (ACR) engine technology to farm machinery engines.

Valtra N-Series and T-Series extended with Direct and Versu versions

Valtra N-Series and T-Series tractors have been extended with versions with new Direct transmission systems equipped with variable transmission, and Versu with multi-ratio Powershift transmission.

Specific Powershift gears in the five-ratio system is switched using three buttons ergonomically situated in the operator's armrest. In the variable transmission tractors the driver selects the range using a lever, controls the speed with the accelerator pedal and the direction with a left hand operated shuttle. The new models of Versu and Direct T-Series and N-Series can be easily recognized by new engine bonnet and rear mudguards. Versu and Direct tractors are extremely easy to operate. All the new tractors are equipped with Load-Sensing hydraulics and have many optional accessories to choose from.

Challenger 680B

The new 680B model is a combination of innovativeness and proven in every respect rotary harvester technology. The proven unloading system, large header and high-power engine ensure increasing the machine's efficiency. Owing to its 12.5 l Caterpillar® C13

ACERT™ engine with enormous 459 HP, the harvester is more flexible and efficient and consumes less fuel. The enormous tank can hold as many as 12,300 liters of grain, which improves performance by extending continuous harvesting periods with fewer crop unloading breaks. The machine is equipped with the largest header in the sector: it is 3.55 m long and 800 mm wide, which significantly increases the harvesting performance. The new 680B model is maximum efficiency with lower cost per ton.

Agrarada

FL 720

FL 720 is a combination of machines we already know: receiving hopper, sorting table and store loader. It was presented for the first time at this year's Agri Technika. The field station ensures very good reception of the product, its efficient sorting, separating good crop by workers and gentle loading onto transport vehicles. It gives you clean product that can be sent to the client without further sorting or any other handling operations.

Agri Con Sp. z o.o.

Trimble AgFmx parallel driving system terminal

The latest Trimble AgFmx parallel driving system terminal with a double receiver communicating with GPS and GLONAS satellites and an RTK system radio modem control operation of automated steering systems: EZ-Steer and Autopilot.

AgriPort Data Port

Internet platform for storing any GIS data related to farming operations of every farm, such as field areas and outlines, registry data, soil maps, agricultural usability maps, elevation maps, satellite and photographs, register of agricultural procedures, and other.

Growth Regulator Module for Yara N-Sensor system

The module lets you precisely regulate growth regulators depending on field diversification by measuring biomass. It can ensure savings of 10 to 20 percent on the cost of chemical treatment and evenness of the crop field.

Agro-Sur

Indoor sprinkler arm

Indoor sprinkler arm is equipped with a fast drive engine and a complete set of drive rails, fasteners, hoses and power cables, including fasteners for fastening rails to the facility's structure. The watering nozzles are made of high-grade stainless steel. The nozzle slit has a flange protecting the nozzle against mechanical damage. Dosatron Di 16 proportional feeder installed on the arm is connected to water mains and its only driving force comes from the pressure of water: it makes the feeder suck in concentrated preparation, doses it and mixes with water.

Outdoor sprinkler arm

Sprinkler arms for field production ensure very high accuracy of watering, which translates into economical water handling. It is an ideal solution for all types of crops.

The arm's structure is made of zinc-plated steel. A system of strain lines ensures proper balancing of the whole sprinkling machine. The arm has a drive and transmission system that can move the machine at 1.5 to 25 m/min. The drive trolley is equipped with special deflectors ensuring proper positioning of the hose and power line during operation.

Agrotech Baryczka

Thaler

The new line of Thaler loaders is not only a new design but also reflection of loader users' concepts: their suggestions were taken into consideration when designing the machines.

Thaler is equipped with a new Bosch-Rexroth steering hydraulic system, Bucher hydraulic distributors and Comer axles. All the machines are slightly longer and lowering the center of gravity add even more stability and considerably increased capacity parameters. The turning angle (60 degrees) ensures incredible manoeuvrability even with the greater overall dimensions. Lowered by 12 cm, the operator seat is comfortable and gives the feeling of stability. The machines are the only loaders with hydraulic and pneumatic absorbers further increasing work comfort, and an automated system for cleaning dry air filter.

Alchemik

Briquetting machine for sawdust, straw and other organic matter

Fully automated briquetting machines for pressing sawdust, straw and other organic matter. All the mechanical operations are performed hydraulically and are controlled by a system of electronic sensors with a Siemens computer. What is new in our offer is a briquetting machine with capacity of up to 150 kg/h with 5.5 kW nominal power, which considerably reduces the overall operating cost because the actual energy consumption at 150 kg/h capacity is as low as 3.5 kW/h.

Alpego Sp. z o.o.

Chisel

Chisel is a tool for penetrating deeper subsoil layers, breaking compacted soil and airing it. Chiseling prevents forming of water pools and lets rainwater freely seep deep into subsoil. Through the loosened soil, moisture will easily get to the surface layers, watering the thirsty roots. The tine penetration angle has been optimized and the needed tractor power is relatively low. Chisel width can be double of the plow width the tractor usually uses.

Rotary harrow with TWIN FORCE system

The rotary harrow is equipped with special tines for low power consumption and preventing blocking by soil, and TWIN FORCE system with rotors mounted on cone bearings. The casing is reinforced for better protection against wear and tear and damage caused by stones. Owing to its unique construction, the harrow can be used for greater depths.

Pneumatic drill AS 3

Air Speed 3 pneumatic drill is equipped with an innovative system for transporting seeds from a front container to an intermediate container in the back of the tractor, and then to the distributor. AS 3 drill combines advantages of traditional seeders with containers only in the front and drills with containers in the back.

Aqua-Rol Sp. z o.o.

Hose-reel sprinkler machines OCMIS VR

Vario Rain (VR) sprinkler machines are high-tech products. The reel drum is mounted directly on the chassis and the special wheel positioning ensures easy manoeuvring of the large machine even when the space is limited. The toothed wheels and rims are made of top-grade, hard and durable steel. Construction of the sprinkler machine ensures continuous operation for thousands of hours. The hose guide assembly has a roller with a large diameter. The machines have a new turbine, even more efficient and resistant to wear and tear, and a 4-gear, fully synchronized transmission. Another improvement is the semi-automatic transmission and reel interlocking system. The used reel drive system minimizes energy losses. This line includes 48 models of large machines in 5 categories.

BIOMASSER® MOBILE

Mounted on a wheeled trailer, BIOMASSER® MOBILE is a machine for briquetting straw and hay. BIOMASSER® MOBILE line is designed for pressing straw, hay and other grass plants using BIOMASSER® technology and makes up a complete production line mounted on a wheeled trailer. The solution makes it easy to move the briquetting plant to where the material is stored, for instance to a stack of straw bales at the field or a barn, and start pressing briquettes right there.

Avant Polska

Avant 420

The latest model of Avant 400 Series is a multi-purpose loader, our response to clients' needs. It is a compact, economical, universal loader driven by a Diesel engine with enough power to efficiently operate all year round. Avant 420 combines efficiency, versatility, manoeuvrability, ergonomics and safety of work.

BOTT Agro

ALBUZ AD-AC, AVI 80 and TVI

AD-AC set, AVI 80 and TVI are ALBUZ ceramic sprayers mounted on spraying machines to be used in orchards. They are designed for best penetration of high tree crowns and environmental protection during crop spraying.

ALBUZ ESI

The 6-nozzle ceramic ESI sprayers by ALBUZ are mounted on double enclosures of adjustable application hoses and ensure precise RSM dosing. Using this application system, you'll be sure that the fertilizer gets exactly where it is needed: in the plant root system. The angle between the two sprayers is adjustable, which, given the various row spacing and the risk of overdosing the fertilizer, is very important.

Brinkman Polska Sp. z o.o.

Transplanter

Transplanters are robots used for the automatic transplanting of seedlings from multicell plug trays into bigger plug trays or pots. With its fingers, the robot draws out a seedling from a tray cell and puts it into a pot fed by the potting machine. The robot can be equipped with a few or few dozen fingers. On request, we can produce machines equipped with a maximum of 48 transplanting heads. Every head has its own drive unit for vertical and horizontal movement.

Visser seeder

Visser precise seeders are suitable for all kinds of variously shaped seeds including coated and very small ones. Parameters can be set up to sow a few (3 or 4) seeds into one cell of the plug tray. The seeders can be used for various types of plastic and styrofoam plug trays, non-standard trays such as very deep styrofoam plug trays for the production of forestry seedlings.

Bury Maszyny Rolnicze

KBT PLUS Disc Harrow

Semi-suspended compact KBT PLUS 8.0 m disc harrow is a farming machine suitable for crops spaced 4, 5, 6 and 7 meters. KBT PLUS disc harrows have unique technical solutions and solid construction. They are designed mainly for post-harvesting crops and plow-free agriculture. Other uses include covering aftercrops, mixing fertilizers and manure with soil and loosening very compacted soil. The main advantage of the harrow is the working assembly consisting of toothed discs suspended on individual springs. It

greatly improves penetration of soil, even dry, and, at the same time, protects the discs against damage. KBT PLUS semi-suspended compact disc harrows are hydraulically retracted, which facilitates driving on public roads.

Chemiroi

Compact loader 3507H JLG®

3507H JLG® is the first model of a new line of JLG compact loaders. The curved engine bonnet, reducing failure frequency related to blocking and dust getting inside during operation, covers Tier III Deutz engine with 102 HP. 3507H model also ensures comfortable work environment: the cabin has been elevated, which considerably improved visibility, and the curved bonnet gave the operator a good view of the right side. The rear wheels have power steering, so adjusting geometry is really easy.

Claas Polska Sp. z o.o.

ARION 400

Features and dimensions of CLAAS ARION 400 tractor line position it between ARION 500 and AXOS. The new ARION 400 line combines advantages of many tractor classes, such as manoeuvrability, limited height, lifting capacity of up to 6.5 tons and maximum authorized total mass 8.8 t (an extraordinary feature for 4-cylinder compact tractors). With total height of 2.74 m and length of 444 cm, ARION 400 is a really compact unit. The new ARION 400 is also very comfortable. Let's start with a lot of space in the soundproof cabin. There is enough space for a passenger seat. The large windows ensure good view in any direction and the glazed sunroof (optional) lets the operator watch the front loader when lifted. Gears are comfortably shifted with buttons, so the operator does not have to take the hands off the controls.

AVERO 240

AVERO 240, the new Claas harvester, is a compact machine positioned precisely between Dominator 150 and TUCANO 320. The harvester is designed for all the farms that want to build an own machine park. The key element of AVERO 240 is a completely new design of the thresher and separator assembly based on 4 straw walkers combined with Accelerated Pre Separation assembly (APS). A lot of comfort hard to find in the class is added in the new AVERO 240 by its high-tech cabin. Very spacious, air-conditioned VISTA CAB is equipped with a passenger seat and adjustable three-position steering column. It features a cooled compartment, a radio with a CD player supporting MP3 format, Bluetooth hands-free system, a USB port, and a SD card slot. Up to eight side floodlights ensure perfect visibility at dusk and during night time.

Tucano with CLAAS HYBRID system

The new TUCANO HYBRID is an upper medium class harvester. TUCANO 470 with 326 HP Mercedes Benz engine and TUCANO 480 with 365 HP Caterpillar unit have been designed as pilot machines in Hybrid technology. Their potential significantly exceeds the one of TUCANO 450. The performance boosting hybrid system, so far restricted to LEXION class, now is used in TUCANO 470 and TUCANO 480. The difference compared to LEXION is that instead of two rotors, TUCANO has one but with a greater diameter. The HYBRID SYSTEM offers proven features. The number of rotations per minute of the APS thresher can be set independently of the rpm rate of the ROTO PLUS separator. Therefore, the whole process can be individually adjusted to the variable harvesting environment and work conditions throughout the day. It guarantees smooth threshing with very high throughput. The new VISTA CAB with pneumatically cushioned driver seat and fully-equipped passenger seat let the operator continue harvesting long summer days.

Case IH

Puma CVX

Puma CVX is an extension of the well-known and appreciated line of Puma tractors equipped with variable transmission and a new armrest concept. Owing to the ergonomic positioning of controls in the armrest and indicators placed on the right pillar, Puma CVX tractors are extremely user friendly. For greater comfort of operation, control of opening times and throughput adjustment of all 9 pairs of hydraulic outputs is performed using only one dial, while the 150 l/min hydraulic pump ensures enough output for even most demanding uses. The heavy duty engines very favourably impact work performance. The power management system additionally supplies up to 44 HP for particularly demanding tasks. An automatic 4-wheel drive lock and differential gear as well as active shock absorption of the front axle guarantee safety and comfort.

Crystal Tractor

Crystal ORION

Tractors from ORION line are modern units built on proven subassemblies of renowned German suppliers used by such tractor manufacturers as Same, Deutz Fahr, Fendt, Case, Lamborghini, Valtra. The new line has been designed for clients looking for average and high power tractors characterized by simple and easy operation but ensuring reliability and high performance parameters. The latest ORION units are equipped with Common Rail engines characterized by very low emission of exhaust gasses, meeting the requirements of EURO III standard, low fuel consumption and very high durability and reliability. Owing to the electronic injection control, the engine has high torque at low rpm, which offers a lot of flexibility and power boost.

Defalin

Rolnet Classic

Raschel net consisting of 50 specially weaved warp chains with expanding properties (EXTEND), made of standard triangular elements. The net expands after being pulled from the roll. It has a broad range of applications in crop harvesting, particularly when stored bales are protected from precipitation.

Rolnet Powerful

Raschel net consisting of 50 specially weaved warp chains with expanding properties (EXTEND), made of mixed triangular and trapezoidal elements. Selected central sections of the material include triangular and trapezoidal elements, which makes the weave thicker and thus increases the resistance of the net in the central zone. The net is designed for harvesting heavy materials or when bales are stored in the open for a longer time. The reinforced thicker, more compressed section of the net prevents breaking when the harvested material is moist due to precipitation and swells in the central part of the bale.

Astra

Raschel net consisting of 50 specially weaved warp chains with expanding properties (EXTEND), with symmetrical triangular weave and its mirror reflection. Edge sections of the net are provided with an extra warp thread. As a result, bale edges are better protected, while the symmetrical net weave ensures an excellent spread on the rolls of the baling machine. If allowed by machine design, edge sections of the net overlap bale rims, smoothing out any sharp stalks with additionally thickened edge segments. As a result, the net can be successfully applied to harvesting crops for silaging.

Rolnet S

Raschel net consisting of 50 specially weaved warp chains with expanding properties

(EXTEND), made of standard triangular elements. Edge sections of the net are reinforced with an extra warp thread.

Expom

Goliat

Goliat is a disc harrow compact in construction and easy to operate. Its versatility ensures good mixing of post-harvesting remains and stubble. It is available in the following working widths: 3.0, 4.0, 4.8, and 5.6 m. The work assembly consists of two rows of misaligned discs whose position ensures aggressive cutting of soil in one pass. Aggressiveness of the discs changes with the working depth (regulated using the tractor's hydraulic system).

Tornado

Owing to adjustable tine spacing of the front frame in relation to the rear frame of the cultivator, soil flows more smoothly, even when it is very cloddy. It is designed for cultivation of soil before sowing and loosening surface layers of soil, breaking and crushing clods of dry soil, and compacting it for better capillary ascent of ground water.

Farmer

Farmer F4-6258 and F4-7258

The tractors are equipped with economical 4-cylinder, 2.5 l John Deere engines. Their main advantage is driven front axle with high load. So, the machines have four wheel drive and the assembly's compact and durable construction allows mounting a front loader with high capacity: even up to 1600 kg. The model has a modern transmission system (with a shuttle) with 8 gears for forward driving and 8 gears for reverse, sufficient for using a power take off shaft (PTO) with two work modes (coupled and independent) and two work rpm speeds. A comfortable and safe cabin has been designed for the new models, improving performance and appearance of the tractor.

Farmtrac

Farmtrac 7100 DT

Farmtrac 7100 DT is equipped with Perkins 1104D-44T, a 4-cylinder, 72 kW/98 HP drive unit, meeting the requirements of Euro IIIA standard. ZF's drive system has transmission with 32+16R gears (powershift, inching gears) and the tractor can drive at 40 km/h. The machine's front axle is made by Carraro and the loader's capacity is 4900 kg. Bosch's EHR is its standard feature. The tractor has a comfortable operator cabin. Optionally, it can be equipped with air conditioning and a front PTO and 3-point suspension system.

Farmtrac 690 DT

Farmtrac 690 DT has a 4-cylinder, 64.5 kW/ 87.8 HP Perkins 1104D-44T drive unit meeting the requirements of Euro IIIA standard. The drive system by Carraro has transmission with 24+24R gears that ensures driving at 40 km/h. The loader's capacity is 3100/3500 kg. The comfortable and spacious cabin can be optionally equipped with air conditioning. Other options include a front PTO and 3-point suspension.

Farmtrac 685 DT

Farmtrac 685 has a 4-cylinder, 60.5 kW/ 82.3 HP Perkins 1104D-44T drive unit meeting the requirements of Euro IIIA standard. The drive system by Carraro has transmission with 24+28R gears that ensures driving at 40 km/h. The loader's capacity is 3100/3500 kg. The comfortable cabin can be, at the client's request, equipped with an air-conditioning system. Other options include a front PTO and 3-point suspension.

FarmTrade Dom Handlowy

Jean de Bru-Moliner X disc harrow

It is a cultivation tool for loosening and breaking up compacted soil. Its transport width is 2.5 m, while the working width is 4.4-8.1 m. The machine is horizontally folded. Disc diameters are: 610, 660 and 710 mm. It has an articulated hitch with lower strands, turning in all the directions. The harrow can be used with finishing rollers. Its power demand is 150-420 HP.

Projet suspended field spraying machine

Field spraying machines by Projet are made of top quality polyethylene. Their working widths range from 20 to 28 m. The tank can hold 1000-1500 l. The boom is hydraulically folded; they have height adjustment, a suction filter with an automated cut-off valve, a 30-l mixer with a spring for working with mobile machines. Quick coupling for one-side operation Traktor Control, a flush system with return valve, a tank for washing hands.

Venus NSH 3+1 reversible plow by Goizin

Venus NSH 3+1 reversible plow has many advantages making it a very efficient machine. Dimensions of the frame are 150 x 100 x 8, while the plow body spacing is 90 cm. The plow working width is 1.43-1.63 m. It requires 90-130 HP of power. Other advantages include hydraulic safeguards and skim coulters. The total weight is 1177 kg.

Jean de Bru TERRAPACK cultivation roller

TERRAPACK cultivation rollers are hydraulically folded for transport to 2.5 m. Their working width is 4.2-12.4 m, while power needs range from 70 to 210 HP. Roll force: 650 kg per m².

Faska Sp. z o.o.

Mobile molasses feeder

The mobile molasses feeder doses solution of molasses for nutritive fodders in feeding passages. It increases fodder consumption and limits the amount of leftovers. The unit heats up water to 35-40°C, solubilizes molasses and pours it to a perforated basket in the container, and dozes the solution through nozzles installed on special arms of adjustable height and length. Dosing molasses, the pump also mixes the solution in the container, maintaining the concentration and temperature of the content.

Firmeko

Hermes F1

A new, late-maturing variety (140 days of vegetation) suitable for long storage. It produces very attractive, smooth, cylindrical roots without the tendency for the head to turn green. Strong leaves and good break resistance make it appropriate for mechanical harvesting and washing. It can be used for the production of slices.

Koros F1

One of the earliest varieties in the market (55-65 days from planting) recommended for spring planting (also under covers) and for the autumn cycle. It has uniform, dark green tight flower heads without a tendency for the formation of voids in the stalk, weighing 500-700 g. Being very compact, the plants are easy to harvest. Recommended plant density: 35-40 thousand/ha. Perfect for the supermarkets.

Octopus F1

A new variety suitable for autumn production. The plants are vigorous and healthy, and demonstrate excellent foliage protection. They form tightly packed and long-lasting snow-white curds. Grown for the vegetable processing industry, it produces curds of the highest quality. Recommended plant density: 22-26 thousand/ha.

Fuchs Oil

Agrifarm Stou 10W-40 MC PRO

Agrifarm Stou 10W-40 MC PRO is a multi-purpose SHPD (STOU/MFO) oil of the latest generation based on high-tech MC technology and special additives. It is designed for engines, transmission gear, wet brakes, hydraulic systems in tractors, combine-harvesters, and differential systems with gear interlocking in farming machinery. The product is certified by manufacturers of farming machinery. It can be used for machines made by the largest global manufacturers.

Agrifarm MOT 15W-40

Agrifarm MOT 15W-40 is a modern, year-round, heavy duty engine oil of SAE 15W-40 class manufactured according to a new formula. It has been designed for modern Diesel engines used in farming machines and tractors that require high standards of engine cleanliness and maintenance intervals. Therefore, AGRIFARM MOT 15W40 is recommended especially for engines with turbochargers and without them.

Górnice Zakłady Dolomitowe S.A.

Agricultural lime

Agricultural lime containing magnesium carbonate. The lime very good chemical qualities. It is suitable for a broad range of applications in agriculture and horticulture as a fertiliser helping to deacidify the soil and enriching it with calcium and magnesium. The lime improves the chemical and physical structure of the soil, and the quality traits of crops, thus enhancing health benefits of plant products consumed by humans and animals. The agricultural lime is available in bulk, in 500 kg big bags or in plastic "Dolomit CM" packages of 5, 10 or 20 kg.

Hodowla Roślin Smolice Sp. z o.o. Grupa IHAR

Opoka

Opoka is a mid-early three-line (TC) hybrid variety of fodder maize with the FAO 240 number, recommended primarily for silage. It can be grown all over Poland, with the exception of northern parts of the 3rd maize cultivation area. The main utility value of the variety is its high silage crop of good quality, stable over the years. Very good digestibility parameters of the silage were confirmed in COBORU (Research Centre for Cultivar Testing) registration tests in which Opoka achieved 103.7% of the crop yield standard in fresh weight and 101.1% in the total dry weight crop yield. This ensures high yields expressed in feed units per ha (by an average of 110 units above the standard) and high-energy silage. Opoka is highly valued by Polish farmers: in the third year after registration, it was the fourth most popular maize variety in Poland. It is also reproduced for other European Union markets by an Austrian company.

Muza

Muza is the newest fodder pea variety, registered in 2009, and the first and only one combining a very high yield potential, abundance and rigidity. A distinct feature of the variety is that it produces tall plants with high green mass productivity, which are not liable to lodging and leave the growing site in an excellent condition. The traits are particularly important for eco-farms. The variety gives high and stable yields. It is recommended for cultivation all over Poland, both as a sole crop and in mixtures with cereal crops.

Milwa

Milwa is a very high-yielding fodder-type pea variety. Plants, reaching the height of 75-80 cm, with very rigid stalks, practically non-lodging, mature early and very uniformly. The variety can be cultivated in all regions of the country. It has a low sensitivity to downy mildew and high resistance to grey mildew. Thanks to its benefits, it is becoming

increasingly popular, enjoying the greatest seed distribution of all seed pea varieties.

Horsch

Express 3 TD Pronto

Express 3 TD is a compact, suspended cultivation machine and drill for farms that are smaller, have fragmented acreage, or whenever use of hitched Pronto DC and Sprinter drills is limited. Express TD is a multipurpose tool (after plowing, in mulch and in direct drilling). The drill has all the Pronto DC elements required for cultivation, consolidation, sowing and pressing of seeds in one pass. Owing to its mobility (up to 15 cm), Turbo Disc coulter has a duplication option, ensuring regular and precise sowing of all the seeding material at the desired depth.

J. A. Gaska

Replacement parts for engines and tractors

New and extended portfolio of replacement parts for engines and tractors of western brands.

Replacement parts for combine-harvesters

New and extended portfolio of parts for combine-harvesters by Claas, New Holland, John Deere and other western brands.

Farming presses

New, special farming presses designed for extreme working environments.

John Deere Polska

John Deere 1470/1570

The new line of harvesters John Deere 1470/1570 is a successor of the second line of 1450/1550 models. Compared to their predecessors, many changes have been introduced, improving reliability, durability and facilitating daily maintenance of the harvesters. The crop elevator has been completely redesigned for even smoother collection of crops from the header. The new hydraulic system ensures faster reaction and greater load capacity of the header and greater speeds of the reel. The changes introduced to steering and electric systems, sieves and chopper drives, improve work conditions for the operator and boost the machine's functionality. The new headlights ensure better lighting, which translates into better visibility when working at night. The new harvester line 1470/1570 can be equipped with AutoTrac Universal 200, a satellite guiding system that, after the harvesting season, can be easily moved to other farming machinery.

John Deere 5E-Series

5E-Series of tractors without a cabin (5055E, 5065E and 5075E) are designed for casual farming and specialized farms. The machines have 3-cylinder engines meeting the requirements of Tier III standard and power from 55 to 75 HP. The transmission system in 5E series has 9 forward gears and 3 reverse. The last gear is synchronized. The transmission has a parking lock. The tractors suit particularly well specialized farms, where machines must have limited dimensions, especially height. Comfortable and intuitive operation improves work performance, while the single-piece bonnet facilitates access to the engine during everyday maintenance operations.

John Deere 5M-Series

John Deere tractors of the new 5M series have John Deere PowerTech M, 4.5 l Diesel engines (meeting the requirements of IIIA exhaust emission standard) of rated power from 70 to 100 HP (as in 97/68 EC). Depending on the order, 5M tractors can be equipped with various transmissions. Owing to the compact dimensions, the tractors are a perfect solution for small and medium-size breeding farms. They are best suited for moving

animal fodder, works with a front loader, mowing, baling, transporting and fertilizing. An important feature of 5M-Series tractors is the chassis that takes over the load from the engine and allows mounting of John Deere front loaders and front lifting equipment with not involvement of the engine block. Besides the excellent visibility and unmatched operator comfort, cabins of the 5M-Series tractors are characterized by light interior, completely redesigned dashboards, ergonomic controls, including tilted steering column, and various seat and lighting options.

John Deere 8R-Series

John Deere has announced new models: wheeled tractor 8R and crawler tractor 8RT. According to the company's new coding, the new tractors replace the current 8030-series models. All the 8R and 8RT tractors are equipped with John Deere 9 liter, 4-valve Diesel engines with Common Rail PowerTech Plus with power ranging from 245 to 345 HP. The new CommandView II cabin improves performance by extending operator's work day. John Deere tractors from 8R and 8RT lines have an intelligent total equipment control system (iTEC). Additionally, all the 8R models support AutoTrac satellite guiding system and, optionally, can be equipped with iTEC Pro system for automated driving on U-turns.

John Deere balers and baler-wrappers

New John Deere presses: fixed chamber balers of 600 series and variable chamber balers of 800 series as well as baler-wrappers of 700 series have been equipped with a new press freeing mechanism ensuring faster restoration of the machine's functionality with no crop losses. The bale forming arm has a new design that ensures increasing the density by 15%. During Polagra PREMIERY we will present new products with increased standards, such as baler-wrappers with data exchange, ISOBUS and automated operation option, 864 Premium press equipped with automated press-tractor communication. The model has won a gold medal at Agritechnica 2009 fair in Hannover.

Joskin Polska Sp. z o.o.

Joskin Ferti-CAP

Joskin Ferti-CAP line of manure spreaders are designed mainly for farmers looking for simple, efficient and versatile machinery. The line includes units of 7 to 14 ton capacity. The shell body is made in whole from profiled metal sheet of steel with high elasticity limit (HLE), which gives it exceptional durability. Vertical rollers of Ferti-CAP allow spreading over 8-12 meter wide strips, depending on the type of the spread material. Ferti-CAP spreaders are equipped with spring-suspended drawbars which ensure high comfort of driving.

Joskin Siroko

Joskin Siroko is a small manure spreader designed for farms that have tractors with power from 60 to 150 HP and is an extension of TORNADO 2 spreader line. Siroko has narrow load platform and large wheels. The platform has been narrowed in order to reduce loads when moving the manure to the back of the spreader. The spreading assembly consists of two vertical, slightly tilted rollers. They have teeth made of special Hardox steel that dig into the manure mass (slightly loosened), across the whole layer, and cast it away. In result, the manure is spread in a uniform manner on a wide strip of land (7-8 m), so the operation is very efficient.

Joskin Tetra Cap

Joskin Tetra Cap tipper truck has a self-supporting chassis and 3-way tipping option. The machine, besides high comfort of road driving and safe tipping, is characterized by a narrow chassis allowing use of broad wheels that do not cause ruts on fields. The special design of the chassis manufactured by JOSKIN gives the machine the lowest center of gravity in the category. The chassis is made of zinc-coated (hot dip process) beams with

large cross sections, which effectively protects it against corrosion. Additional options include a tarpaulin cover with front extension, racks for transporting hay bales or extensions for green fodder.

Kalchem

Dragon ZL 10

1.5 m wide articulated loader Dragon ZL 10 with 1 t lifting capacity and 36 HP engine is equipped with hydrostatic drive, has two travel speeds forward and backward, and is controlled using a joystick and a hydraulic shuttle option.

KFMR Krukowiak

Goliat Plus 5000/30/PHB

Goliat Plus 5000/30/PHB is a hitched farm spraying machine with a 5000 l tank and a 30 m field boom, independently extended and retracted. Its improvements include the capacity (so far 4400 l) and a new design of the boom.

Goliat Plus 3500/24/PHB

Goliat Plus 3500/24/PHB is a hitched farm spraying machine with a 4400 l tank and a 24 m field boom, independently extended and retracted. Its new feature is the new boom design.

Heros 1500/21/PHH

Heros 1500/21/PHH is a suspended farm spraying machine with a 1500 l tank and a 21 m wide hydraulic boom. Its new feature is the tank capacity (1200 l so far).

Booms for PHX spraying machines

New widths of booms for PHX field spraying machines. Manufactured so far only up to 15 m, they are currently available as 16 and 18 m options.

ECO potato digger

ECO potato digger: new single-belt, single-row digger for the smallest potato farms. Attractive price below 5000 PLN gross. Launched in 2009 but not yet presented in Poznań.

Korbanek Sp. z o.o.

Gregoire-Besson RWY8

RWY8 Gregoire-Besson is a 6-furrow suspended plow with hydraulic adjustment of working width (Vario system), a centering cylinder for plow turning, hydraulic lateral leveling and body protectors against stones. Key elements of the plow type are two support and transport boogie wheels that perfectly set and stabilize plowing depth and shock absorption of the upper, third point. The upper connector of the tractor is attached to the plow through a hydraulic cylinder (with freely adjustable pressure) that absorbs and limits lateral swinging of the machine during U-turns (no rigid connection, as used so far). The patented solution allows attaching 6 share plows to a tractor with 180 HP.

Fendt 1290 N square baler

Fendt square balers are characterized by stability, durability, and perfect technology based on many years of experience of the brand owned by AGCO Corporation. The baling presses are designed for large farms and service companies. High performance and simplicity of construction are key attributes of Fendt square balers. The effective 2.26 m wide pick-up device ensures thorough gathering of the material. The preliminary baling chamber is filled continuously. Then the material is moved to the main chamber where it is rammed by a plunger moving at 47 strokes per minute. The wrapping devices with double knotting option ensure perfect wrapping of tightly pressed bales. Durability of the wrapping devices is ensured by automated lubrication and cleaning with air. Optionally, Fendt

square balers can be equipped with a cutting device, which is very useful when preparing hay and green fodder.

SULKY DPX 28

SULKYBUREL, a French manufacturer, launches a new fertilizer spreader model: DPX 28. The two-disc, suspended fertilizer spreader has a standard tank of 1500 liters (optional installation of an extension to 2100 l) and a DPX spreading system (with adjustable fertilizer pellet drop point in regard to the spreading disc's center). DPX 28 model can spread fertilizer in the range from 12 m to as many as 28 meters. Standard options of the machine include road lights, spreading calibration test kit and transverse spreading uniformity test kit (proper working width). The spreaders are factory-equipped with mechanical (optionally, with hydraulic) opening of discharge chutes, a tarpaulin, and a Vision DPB computer maintaining the set fertilizer doze irrespectively of the driving speed (communicating with the GPS system).

Massey Ferguson MF 8670

The newly designed line of MF 8600 tractors follows the innovative heritage of Massey Ferguson based on analyzing client needs. The 8600 series includes 5 models with power ranging from 270 to 370 HP. The tractors can be equipped with a Selective Catalytic Reduction system (SCR) ensuring fuel consumption reduction. The models have many new solutions improving operator's work comfort not to be found in other farming tractors. The very spacious, modern, 4-pillar cabin with a new shock absorption system, air vents in the lower part, and a new operator seat with multi-purpose armrest ensure long hours of operation in comfortable conditions.

Fendt 200 Vario series

Tractors of the new 200 Vario series are compact units with maximum power from 70 to 110 HP (as specified in ECE R24). 200 Vario tractors are driven by 3-cylinder Sisu Power engines equipped with a turbocharger, intercooler, Common Rail and AGRex exhaust gas recirculation system. Driving power in 200 tractors is transmitted using Vario gearbox popular and appreciated in larger tractor models. It allows to drive the tractor at 0.02 to 40 km/h. The machine also has a TMS system for shared control of both engine and transmission operation, so as the fuel consumption is as low as possible. The rear hydraulic lifting device with 4200 kg capacity and optional an 2490 kg front lift will prove very versatile and useful at any farm. The tractors have a comfortable, air-conditioned cabin with flat floor, and the ergonomic positioning of controls makes operating the machine simple and easy.

Fendt 800 Vario series

Tractors from the new 800 Vario line have maximum power ranging from 200 to 280 HP (as specified in ECE R24 standard). The drive unit of 800 Vario is a 4-valve version of a six cylinder Deutz Hightech engine. It has a modern Common Rail fuel injection system and AGRex, external exhaust gas recirculation, as well as AdBlue technology, which ensure meeting the new Tier 4 exhaust gas emission standards and make it more environment-friendly. The tractors are equipped with 505 l fuel tanks. Drive is transmitted using renowned Vario systems designed especially for the new 800 series. They allow driving at 0.02 to 60 km/h. The tractor is factory-equipped with TMS system controlling operation of the engine and transmission, so as fuel consumption is as low as possible. The new X5 cabin, so far known from 900-series tractors, is a modern, spacious, and comfortable work place. For better comfort, it has been fitted with modern shock absorption solutions, automatic air-conditioning, and pneumatic cushioning of the operator seat. For special municipal or forestry applications, the 800 series can have reverse driving system installed.

Fendt 9460 X

9460 X is the latest Fendt combine-harvester. It is the first machine of a new X-series line. The hybrid system is a combination of a conventional threshing assembly with transversely positioned drum and separation rotors parallel to the harvester's body. The rotors replace traditional straw walkers. The harvester's threshing system has another important element: a rear beater 376 mm in diameter and a rotor feeder that also distributes the load into individual rotors. The harvester is equipped with more efficient cleaning equipment. We also need to mention the new 7-cylinder AGCO SISU POWER engine with AdBlue technology, 9.8 l capacity and maximum power of 496 HP (including Power BOOT). Comfort of operation has been improved by equipping the cabin with: air-conditioning, pneumatic seat cushioning, adjustable steering wheel, and Datavision onboard computer known from earlier harvester versions.

Massey Ferguson ACTIVA

Massey Ferguson combine-harvesters of ACTIVA series are excellent machines equipped with 5 or 6 straw walkers. Their engine power ranges from 176 to 275 HP and the tank can hold from 5200 to 8800 liters of grain. The threshing system consists of a large, 600-mm drum, rear beater drum and, in S versions, a centrifugal separator with detachable concave option. Activa S also has an additional roller at the crop elevator. It ensures even feeding of the material to the threshing system. Activa harvesters are also characterized by large separation and cleaning surfaces. One of major advantages of ACTIVA harvesters is galvanization. 80% of metal sheet elements in the machine are zinc-coated. That ensures significantly greater durability. Other standard features include a straw chopper that very effectively cuts and spreads the straw. MF Activa harvesters have also a very comfortable cabin (air-conditioned, heated) ensuring excellent work conditions. The controls are arranged in an ergonomic manner, increasing ease and intuitiveness of operation. All the Activa harvesters have hydrostatic drive that makes work easier and more effective.

Fendt 9460 R

Fendt 9460 combine-harvester of R series is a heavy duty machine designed for large farms and farming service providers. It is driven by a powerful 459 HP engine. The secret of the harvester's success is the largest on the market threshing and separating rotor, efficient cleaning system, spacious grain tank holding 12,334 liters of crop and grain unloading system that can feed 159 l of grain per second to a height of 4.34 m. The machine is equipped with a 9.2 m wide spreader with PowerFlow system, which means precise cutting and perfect feeding of the crop for threshing. An additional advantage of PowerFlow headers is their suitability for harvesting rape. The heavy duty 8-row chopper guarantees fine cutting of straw and spreading the material at the whole width of the header. Large windows in the cabin improve visibility and maximize the operator's view. The multi-purpose terminal allows quick and precise control of machine settings and displays all the main subassembly parameters during operation.

Köckerling

Vector tiller

Vector tiller has a working width of 4.6 to 8 m. Its advantages include hydraulic setting of working depth from 0 to 35 cm, even spreading and mixing of straw, no clogging, rigid tines with TOPMIX shares, and low cost of operation. It is a versatile machine for plow-free cultivation, pre-sowing cultivation, and post-harvesting works. Fields cultivated with VECTOR grubbers are characterized by very high water absorption and storage in soil. It facilitates humification of organic matter and ensures favorable biological conditions in soil.

RAUCH AXIS 50.1W fertilizer spreader with a weighting system

The new model of RAUCH AXIS 50.1W fertilizer spreader is factory-equipped with a weighting system and a tank of 3000-4000 l capacity. The working widths of AXIS 50.1W range from 12 to 50 m! AXIS 50.1W is yet another step toward precise farming. The machine's key advantages are: an electronic weighting and data processing system and ease of operation. Similarly to other spreaders of the line, AXIS 50.1W is equipped with CDA[®] system, combining exceptional comfort of operation with protection of fertilizer granules, which translates into precision of spreading.

Suspended GF carousel hay tedders of 102 series

The 3 new models of GF hay tedders with a 3-point suspension of 102 GF 422, GF 502 and GF 642 series with working widths 4.2 m (4 carousels), 5.0 m (4 carousels) and 6.4 m (6 carousels) are our answer to the needs of those farmers who seek modern and reliable solutions at affordable prices. The carousels are driven through DIGIDRIVE[®] system renowned for its reliability and minimized operation and maintenance needs. Another advantage of the system is folding of the machine to very small transport and storage dimension. GF tedders of 102 series can be mounted at an angle for turning swaths at meadow edges without throwing of hay onto, for instance, a road.

KUHN RW 1400M wrapper

The hitched round bale wrapper RW 1400 is suitable for using with smaller tractors. The hydraulically controlled loading arm is located on the right side of the machine and can load bales up to 1 ton in weight and 1.2 to 1.5 m in diameter. The supporting frame is equipped with an adjustable-span wheel that ensures changing the machine's transport settings into working settings within a few seconds and safe moving of heavy bales without using counterweights. The wheels are positioned behind the table, which allowed us to lower the table: a very important feature when unloading bales. The solution facilitates gentle lowering of wrapped bales onto the ground and minimizes the risk of damaging the wrapping foil. The machine is controlled manually (M) using 3 levers connected with the valve block using cables.

VB 2190 Opticut variable chamber round baler

VB 2190 variable chamber round balers with ISOBUS system and 1.85 m maximum bale diameter are equipped with an INTEGRAL ROTOR feeding system in which augers located on both sides of the rotor pick up the swath and feed it to the middle part with scrapers and 14 knives. The design ensures smooth feeding and precise cutting of the swath, irrespectively of its weight and dampness. All the KUHN VB variable chamber balers have Progressive Density, gradual tension increasing system. VB 2190 OC14 baler is equipped with a net and twine wrapping system, torsional gauge wheels of the press, automated chain lubrication system, bale ejector and proportional valve regulating the bale core's density level, and PowerPush hydraulic reversible rotor drive preventing clogging with the swath.

Suspended PREMIA[®] 3000 / PREMIA[®] 4000 drills for solo sowing

PREMIA[®] 3000 and PREMIA[®] 4000 are characterized by large wheels. Easy access to coulters truly facilitates spreading calibration test and cleaning the tank. The bottom of the tank has angled compartments ensuring precise sowing of fine material. The machine has been equipped with vertically folded markers with a protecting mechanism for approaching obstacles, a firmer, and a lighting system. The two wheels ensure reliable driving of the groove feed coulters. Opening of the coulters is regulated with a micrometer screw. Performing a spreading calibration test is simple and easy.

SPEEDLINER C 3000

The new model of hitched SPEEDLINER C drill has been designed for medium-size and large farms. 'C' symbol means a machine with special optional equipment and at a special price. Its key advantages include compact construction, high performance, comfort of operation and precise spreading of seeds in soil. Speedliner is a versatile drill and its design is suitable for any farming technology, both involving plowing, and in simple farming.

PROFILE

PROFILE is a series of compact fodder carts with vertical augers, for the first time presented in Poland at Polagra PREMIERY 2010. The new generation of fodder carts with 2 vertical augers has been designed for those farms, where use of machinery for preparing and foraging fodder has so far been limited due to small dimensions of buildings and gates.

Kverneland

Suspended, invertible Kverneland 150 B plow

The new suspended, invertible Kverneland 150 B plow is available in 3 to 5 plow assembly options with assembly spacing of 100 cm and frame clearance 80 cm. The model has cutting bolts (screws) protecting against stones. The plow is equipped with a new 130 head type (for tractors with maximum power 130 HP) and stepwise plow assembly adjustment: 35, 40, 45 or 50 cm. The tool is characterized by a completely new design of plow frog based on a rectangular pipe 80x40 mm manufactured using special heat treatment technology. It ensures the model's light weight and low demand for lifting capacity.

Access passive tiller

The new suspended passive tiller Access is available in working widths of 3.0, 3.5 or 4.0 m and with 2 or 3 rows of reinforced 45x10 mm tines. The model is characterized by a strong, durable frame and a completely redesigned head that makes the cultivator suitable for combining with large, heavy drills, both Kverneland Accord, and models made by other manufacturers. The working depth is controlled through a rear tilling shaft, while a simple bolt is used for regulating the operation. Suspended on a parallelogram, side skids smoothly follow the ground profile. We offer a wide variety of tilling shafts: 550 mm pipe, 500 or 585 solid, 585 mm "Flexline" or 560 mm "Actipack" rubber-protected.

TS EVO coulter drill

The suspended coulter drill for conventional and simple sowing with a pneumatic coulter system. It is available in the following working widths: 4.0, 4.8, 5.0, 5.6 or 6.0 m. The machine is equipped with 5 rows of coulters of fixed 50 kg pressure spaced 12.5 or 15.0 cm. Optionally, a front, hydraulically regulated pulverizing harrow of 'Crossboard' type is available. The hopper's capacity can be 1200, 1700 or 2200 l, which ensures high efficiency. The increased distance between coulter rows and placing the gauge wheels in the central part of the machine ensure optimized copying of the ground and depositing seeds at the desired depth. Its strong and durable tines that, at the same time, cultivate the soil and sow seeds are always spring-protected against stones. The machine is characterized by a simple working depth adjustment system set in 4 points with no tools needed.

Starguide II

Starguide II is an automated system for controlling Kverneland Rau spraying machine sections. The machine uses GPS positioning and records the sprayed area to automatically switch off individual spraying machine sections that overlay areas already sprayed. The overlay reduction system cuts down production spending, saves time and

operator's nerves, as well as reduces the plant stress.

Vicon T-Rex 400-450-500-550 bulk trailers

Vicon bulk trailers are fast unloading, high capacity by weight and volume machines. Their use facilitates the process of collecting and storing crops from fields. Vicon T-Rex 400, 450, 500, 550 models with 40, 45, 50, 55 m³ capacity and load 22, 24, 24 or 34 tons, respectively, are perfectly suited for transport of corn or grass. The machine's design is very compact and the side boards are mounted to very durable side stanchions. Owing to the double chain and slat conveyor and the wide rear hatch unloading is fast and efficient. Optionally, the machine can be equipped with a hydraulic cylinder adjusting the load of the tractor's front axle, which ensures increasing the towing capacity needed in transport.

Lemken Polska Sp. z o.o.

Kristall

Kristall is a new generation of cultivators that was presented for the first time at Agritechnika 2009. It combines the advantages of a compact two-bar grubber with the performance of grubbers with three or more bars. The two-bar Kristall is considerably shorter and more compact than multi-bar cultivators. It ensures reducing the demand for lifting capacity, so smaller tractors can work with greater working widths. The new stubble field grubbers significantly limit the cost of cultivation. The number of tines is optimized for reducing the cost of working elements' replacement and maintenance time.

Compact Solitair

The new Compact Solitair is a fast, compact drill of up to 6 m working width. The pneumatic cultivator drill is a versatile, economical solution for the farms where traditional cultivation and mulch sowing is used. The two rows of notched convex discs of the Compact-Solitair's cultivating assembly guarantee thorough mixing and clogging-free operation, also when there is a lot of organic matter. The hopper of Compact-Solitair holding 4500 liters of grain that can be filled with Big Bags, a front loader or a platform auger, ensures enormous acreage performance.

Zirkon 8

The new model of Zirkon 8 rotary harrow will replace the current Zirkon 7 machines. Available working widths ranging from 2.5 to 4 m, 4 rotors per meter, and tines mutually positioned at 90 degrees ensure stable operation of the machine. During operation, the tines pass one another, so power is transmitted uniformly, even in most demanding conditions. The tub with toothed wheels is manufactured in whole from one piece of thick metal sheet. The new Zirkon 8 has been equipped with a gear box that allows changing the rotor speed. The rotary harrow can be combined with various drills, both mechanical and pneumatic.

Sirius

Sirius suspended spraying machine is available in two versions: as Sirius 7 and as Sirius 9. The hopper size ranges from 1600 to 1900 liters. The whole structure has been designed so as the center of gravity is in the most ergonomic spot. Forces in Sirius are optimally distributed, so as both axles of the tractor are perfectly loaded. It makes it possible to use the machine in any field conditions.

VariTansanit

VariTansanit is a hybrid plow combining the advantages of a suspended and semi-suspended plows, with 105 cm plow assembly spacing and 85 cm frame clearance. The adjustable middle connector transfers load from the supporting wheel of the plow to the tractor's rear axle, which increases the tractor's pulling power and minimizes wheel skidding. VariTansanit can be used with tractors that normally would not have enough power to pull semi-suspended plows with the same number of plow assemblies.

Łuczak Maszyny Rolnicze

PU-4 universal weeder

Designed for mechanical control of weeds in crop fields, especially vegetables. PU-4 is the first weeder removing weeds not only in rows but also between plants, which eliminates the use of weed sprayers and manual hoeing. The weeder loosens and aerates the soil, creating an insulating barrier effectively limiting the evaporation of water during periods of drought. The machine can also be used for spreading chemical and ecological fertilisers, especially those containing microelements.

Maschio Gaspardo Poland

Maschio-Gaspardo DAMA cultivator drill

The new DAMA cultivator drill by Maschio-Gaspardo is a combination of a mechanical drill and an active harrow. The drill is mounted on an active Maschio harrow. The machine is characterized by particularly strong structure. Each of the harrows is reinforced and protected against stones. The reinforcement consists in doubling the bottom and walls of the tub housing the gear driving the rotors. The rotors, or tine holders, to be precise, are round, so their durability is greater. The harrows are protected against stones by steel blocks fastened with bolts: they prevent stones getting between the tines and the tub's bottom. Drills are connected to the harrow using a quick couple, so whenever only harrow is needed, uncoupling the drill is not a problem.

Cultivator rippers

Maschio-Gaspardo tiller rippers have tines equipped with quick-replacement fasteners. They are reversible, which significantly increases lifetime of a single fastener. The tine roller has tines made of hardened forgings, which considerably extends their durability.

LARA 850T hydraulic boom

The wide variety of Maschio-Gaspardo ditch and road shoulder mowers features a line of hydraulic arms, i.e. mowers with the mowing head on a boom. The largest offered model is LARA 850 T. It is equipped with a 1.30 m mowing head and its horizontal work range is as much as 8.10 m. The machine's boom has a hydropneumatic shock absorption system, which ensures good terrain copying. Besides, the system supports turning the boom aside when meeting obstacles. Depending on the needs, the working elements can be blades or hammers.

Meprozet Kościan S.A.

Liquid manure furrow applicator

The 3 m wide liquid manure furrow applicator is equipped with two rows of disc coulters. Mixed liquid manure is poured through hoses to furrows made by the first row of coulters. The second row of coulters covers the furrows with soil, preventing oxidization of the manure. Deep application ensures soil fertilization that reduces losses of nitric compounds.

Waste removal trailer line

Meprozet Kościan S.A. portfolio includes a new line of products: waste removal trailers. The capacity can be 14000 liters (with a 3-m disc applicator), 5000 liters (with a 2-m disc applicator) or 6000 liters (in a much cheaper, economy version).

Mescomp

Pumps for Bertolini sprayers

Bertolini pumps stand out for the quality of applied materials and innovative solutions. Other renowned manufacturers use stainless steel for the pump construction but Bertolini

uses acid-resistant steel. To protect pump head against corrosion Bertolini developed the double injection method to replace the technologically simple head plastification. When the aluminum head core is ready it is coated with the layer of plastic during the second injection. Thus protected, the head is resistant to impact and very durable.

Guardian Air spray nozzles from Lurmark-Hypro

Ejector and swirl type Lurmark Guardian Air nozzles for sprays against fungal disease have been specially designed for strong wind spraying. The nozzles produce aerated droplets which are more resistant to the wind drift. They are much smaller than those formed by the conventional ejectors and ensure better plant coverage. The deflection of the stream causes the formation of a whirl which supports the plant penetration at every level. Guardian Air spray nozzles are excellent for pest and fungus prevention spraying of such hard to protect plants as potatoes, beets or rape.

Metal-Fach

Bale platform 11,5T T-009/1

T703 Hera Trailer

The trailer with up to 3.5 t capacity has been equipped with a triangle chassis frame made of closed sections, a rigid drawbar to connect it with the bottom tractor hitches, a single-circuit pneumatic brake system and a lighting system.

Z 593 front loader

Moskit

P113/9 – 10 Mounted field sprayer 1000 l

The 1000 l mounted field sprayer with 12 m or 15 m long spray beam, is an up-to-date machine equipped with numerous subassemblies delivered by renowned manufacturers. A suitably shaped, smooth wall tank holds an integrated 100 litre clean water vessel for equipment rinsing. The efficient 130 or 160 l/min pump feeds 24 or 30 Lechler spray nozzles mounted in the multi-position rotary heads. The optional equipment includes a constant pressure valve which can be also electrically controlled (opening, closing, pressure control), controls, hydraulic beam unfolding, forced beam stabilization or full hydraulic system, a dewaterer for chemicals (Polish or Italian), different kinds of Lechler spray nozzles and spreading hoses.

U811/6–7 semi-mounted combined tilling and sowing machine

This semi-mounted combined tilling and sowing machine is designed for secondary tillage after ploughing or no-tillage treatment made by means of scrapers or active machines. Depending on the kind of soil, the combined tilling and sowing machines can be equipped with different crushing-leveling-compacting rollers such as rod rollers, tubular rollers, string rollers, Crosskill rollers or packers. The machine can be coupled with a drill to allow simultaneous seed sowing.

NDS Grzegorz Michałek

Smartrain 63-150 / 63-125 / 55-170

Smartrain is a new line of hose-reel sprinkler units manufactured by Bauer, Austria. The models currently available (63-150, 63-125, 55-170) are designed for irrigating crops, nursery stock, gardens, grasslands, parks, sports facilities, etc.

Pump systems

Design and production of pump systems based on electric pumps.

Biogas

Solutions for agricultural biogas plants – biomass tanks, fermenting tanks, lagoons, sanitary systems, protection systems, electrical systems including control units to

integrate individual components into a comprehensive, functional solution; equipment for water separation after the biogas process.

New Holland

New Holland T6090

The newest and most powerful tractor in the T6000 line. Powered by a 6-cylinder Common Rail engine with a capacity of 6.7 litres and a power output of 201 HP with the EPM system (165 HP rated power). The 19x6 Power Command transmission allows to switch gears under full load, without using the clutch. The tractor is fitted as standard with 4 pairs of electrohydraulic remote valves, and the IntelliView III colour touch screen mounted on the new SideWinder II armrest. Its light weight combined with large R42 tyres offers unique versatility and the lowest levels of ground compaction.

New Holland T6070 Elite

This model marks the expansion of the T6000 Elite line of agricultural tractors, now to include 6-cylinder/6.7 litre Common Rail engines with 117-141 HP rated power. The maximum lifting capacity of the rear loader reaches almost 8 tonnes. These tractors are fitted as standard with 16x16 Power Shift transmission to enable clutch-free shifting of four gears under full load. Elite tractors are also supplied with 4 pairs of hydraulic remote valves, as well as a fully suspended, air-conditioned cab. Optional accessories include: automatic air conditioning system, sharp-turning SuperSteer axle, integrated front three-point hitch, along with a front three-point hitch and PTO.

New Holland Boomer 8N

Comprising 11 models with rated power from 20 HP to 60 HP, New Holland's Boomer line of compact tractors is ideally suited for green area maintenance (parks, sports fields, golf courses), also being the ultimate choice for hobby farmers. Drawing on the legendary feel of the extremely popular 1947 tractor, Boomer 8N combines original vintage design with innovative solutions borrowed from comfortable cars. It sports a 4-cylinder/50 HP engine, 4-wheel drive, and the Continuously Variable Transmission (CVT) – the automatic, single-pedal system which removes the need to switch gears or use a clutch. The tractor features comfortable control switches and linkages enabling the attachment of various implements, such as a front loader, utility backhoe, etc.

Orlen Oil

Platinum Multi UTTO 10W-30

Representing a new generation of high quality, universal hydraulic and gear oils, the multipurpose Platinum Multi UTTO (Universal Tractor Transmission Oil) is characterised by excellent lubrication, anti-wear and anti-corrosion properties, which are essential during heavy-duty use of modern gears and hydraulic systems. The product offers: perfect compatibility with various sealing materials, resistance to oxidation, superb low-temperature performance, as well as effective shock absorption to the entire system. Its high viscosity grade ensures optimum viscosity-temperature behaviour. Platinum Multi UTTO is designed for lubricating a wide range of gears used in agricultural, construction and industrial equipment (gearboxes, final drives, steering gears, differential gears) as well as heavy duty hydraulic systems. The oil can be used in tractors where the manual gear, driving axles, hydraulic fittings and "wet brakes" are lubricated by one oil system.

Pichon

PICHON B4 and B41 Slurry Mixer

B4 and B41 slurry mixers have been designed for a variety of heavy duty applications. They offer simple operation and unparalleled durability thanks to the hot dip galvanised

body. Two mixing blades and counter blades ensure excellent shredding of straw, producing more homogenous slurry. The large diameter of the propeller shaft guarantees extended product life. The mixer is supplied with a hydraulic actuator and a PTO shaft with shear bolt protection. Total length: 5m (B4), 7m (B41). Weight: 420-620 kg.

**ROPS-FOPS approved enclosed driver's cab for PICHON Loader
BP2 Bi-Directional Autofiller (Right/Left Model)**

PIMR

Machine for single-phase harvesting of common osier

The machine is designed for cutting and shredding osier twigs into chips. Shredded material is transported via a pneumatic conveyor into transport trailers drawn next to the cutting unit.

Pol-Mot Warfama S.A.

AM 765 Mini-Loader

Agromatic 765 loader offers articulated frame-steering and a 3-cylinder/28 HP Diesel engine or a 4-cylinder/37 HP engine. It prides itself on a maximum lifting capacity of 1800 kg and a maximum loading height of 2.7 metres. This compact weightlifting champion sports a higher suspension and large diameter wheels to ensure optimum traction even in extreme working situations, regardless of ground conditions. Agromatic 765 is fitted as standard with a set of parallel levers, enabling load lifting and handling in a horizontal position.

N-265 and N-266 Manure Spreaders

The design of the new spreaders is based on the best tried and tested solutions. They can be used for spreading manure, peat and compost, or for transporting agricultural products. The spreaders are compatible with tractors fitted with a standard rear hitch. Being equipped with pneumatic brakes and an electrical system, they are fully suitable for transporting loads on public roads.

T-670 and T-610 Trailers

Two-axle, 10-tonne agricultural dropside trailers with rear and side unload. They are characterised by lightweight body, sprung suspension, and centrally locked sides. Another trailer can be attached to each of the two models.

Z-555/1 Wrapper

The stationary Z-555/1 bale wrapping machine is a simple-to-use solution, controlled hydraulically from the tractor's cab. It is designed for wrapping single bales of half-dried hay from grass and legume plants, with ca. 60% moisture content, collected using a roll baler. The wrapper is compatible with tractors with the engine power of at least 30 kW (40 HP), fitted with a three-point hitch. The wrapping machine features an electronic wrap counter. The bale is unloaded as the lower arms of the three-point hitch are lifted.

Pol-Mot Foton 824 / 904

Foton makes an excellent choice for farmers looking for comfort, low running costs, and superb performance in all conditions. The comfortable and spacious cab is heated and air-conditioned, offering unrestricted access to ergonomically placed controls. The tractors are fitted with economical engines with direct fuel injection. Optimally stepped transmission makes Foton an irreplaceable partner for both farming and transportation. Front axle drive and hydrostatic steering ensure easier manoeuvring and a more efficient use of engine power, thus enhancing the overall working performance.

PRP Technologies Polska

PRP SOL

PRP SOL is a product designed for improving the soil vital functions. Available in the form of granules, PRP SOL is made of calcium and magnesium carbonate, and minerals unique to the PRP technology. The product is bound together with a soluble plant-based binding agent: lignin sulphonate. Auxiliary process additives used in the MIP method, such as sodium, iron, zinc or boron, are selected and added according to strictly defined requirements (proportions between different elements, degree of oxidation and reduction, origin).

PRP EBV

PRP EBV is a mineral solution stimulating physiological processes, used for plant spraying. PRP EBV is absorbed into the plant through its above-ground parts. Plant fertilisation with mineral substances improves the functioning of plant cells. Increasing the redox state of the plant thanks to the supply of mineral compounds from PRP EBV makes it possible to reduce oxidative stresses. As a result, crops have a more regular growth cycle, maintaining the optimum production potential.

PRP FIX

PRP FIX is a mixture of mineral components designed for the management of animal production waste. PRP FIX affects microbiological processes and modifies the fermentation of organic substances in the desired direction. Animal waste is a by-product of livestock production which can be used as a fertiliser or soil amendment. The quality of the substance affects the climate of livestock facilities, the management of animal waste and its fertilisation value. PRP FIX is available the form of chippings, which facilitates mixing with liquid manure and application on the bedding, also in the presence of animals.

Romanowski

McCormick's T105 Line

Manufactured in Italy, McCormick's T105 line is the replacement for the popular DT-75 caterpillar tractor.

McCormick's G-Max Line

The new G-Max line of 117-157 HP tractors makes an attractive offer for farmers with modest requirements. The four-wheel G-Max tractors (125, 135, 145 and 165) are almost completely free from electronic systems – which are often omnipresent in this power segment – as well as excessively complex transmission and hydraulic systems.

SaMasz

Rotary Tedders

2 new types of rotary tedders (4 and 6 rotors with working widths of 5.3 m and 6.5 m respectively) have been thoroughly upgraded, being supplied with more powerful transmission systems, modernised suspension, new rotor arms, and several other improvements.

SAME Deutz-Fahr

Agrotron TTV 630

Agrotron TTV 630 offers even more power and comfort, now with lower fuel consumption. The main highlight of the new DEUTZ tractor is its 6-cylinder DCR (Deutz Common Rail) turbodiesel engine with DPC (Deutz Power Control) system, power rating of 224 HP (164 kW) and a maximum torque of 851 Nm. The new innovative 4-valve technology comprises DEUTZ common rail fuel injection system, and a patented proprietary external Exhaust Gas Recirculation (EGR) system, which translates into an impressive reduction in both

fuel consumption and exhaust gas emissions, as the cooled exhaust gas is reintroduced into the combustion chamber. Argotron TTV 630 prides itself on improved noise insulation inside the driver's cab, which results in class-leading low noise levels. The new tractor is also extremely user-friendly, offering up to 16 different control functions that can be saved during work or transport, and easily recalled using the same lever.

Scharmüller GmbH & Co KG

Ball hitch programmes

Ball hitch systems find application in the equipment of agricultural machines. Thanks to the clearance-free construction, bigger towing power, and the increased angle of inclination as compared with conventional pin hitches, ball couplings gain more and more recognition among their users.

Axle twist control system

Axle twist control system for tandem and tridem tractors. Thanks to the innovative solution based on modular construction, the system makes full use of its potential, providing better control over the vehicle being driven.

Ball hitch for truck-tractors

The ball hitch for truck-tractors is an up-to-date solution that increases the strength of coupling elements and improves the safety and comfort of driving.

SIPMA S.A.

Variable chamber baling press Z-599

A new Z-599 variable chamber baling press is designed to pick up straw, hay and soilage for hay-silage. It is equipped with an on-board computer to monitor the operation of the troublesome components and control the uniformity of chamber filling. The baling chamber consists of five seamless belts which can make bales from 0.8 m to 1.8 m in diameter. A wide pick-up attachment and rotary feeder considerably improve the capacity of material handling and increase the machine efficiency.

MAJA Z-583 bale wrapping machine

MAJA Z-583 bale wrapping machine is intended for wrapping bales made from semi-dry grass or papilionaceous plants of 40-50% dry matter content. The front-rear technological system enables machine operation in the same direction as a baler (along the field), not crosswise. It ensures quick bale loading and wrapping during travel to the next bale as well as high efficiency. The electronic control panel handles the machine functions and gives the user basic operating parameters. The user's function is limited to picking up bales and pressing the button.

Staltech

T40S cultivating drill machine

T40S cultivating drill machine (4.0 m) is used for tillage in all types of soils to drill cereals and vegetables. It is suitable for opening the soil after winter ploughing, cultivating stubbles, etc. The machine is also adapted for work with a drill. The working depth is controlled by means of a back roller. The machine is typically equipped with a tubular roller.

U170J plough

The U170J plough has been built as a module system construction, with optimum functionality, easy servicing, limited weight against high durability and high efficiency. The plough has step adjustment of the body width: 28, 32, 36, 40 cm, which allows adapting it to various applications and field conditions. It is suitable for deep ploughing of light and medium soils. The machine has been equipped with the system of mechanical protections

– M16 bolts.

Tad-Len

TL3021

TL3021 is the 3000 l field trailed sprayer with a hydraulically folded spraying boom. The working width of the selected model is 21 m. It is equipped with the Muller computer and the hydraulic system for four-time beam folding. The advantage is that each side of the beam can be separately folded and unfolded two times. The perfect machine for medium and large farms.

TL412

TL412 is a mounted field sprayer of 400 l capacity with 12 m long beam, manually folded. The perfect machine for work in small farms.

Tama Polska Sp. z o.o.

Tama Marathon 4200 m

Tama Marathon 4200 m is a new-generation agricultural net suitable for all types of balers. The unique technology makes it possible to achieve maximum length and resistance, while maintaining optimum roll weight.

TECH-KOM

KX 3000 rotary cultivator

New KX 3000 rotary cultivator for tractors with maximum capacity up to 190 KM is well proven technological solution taken over from the family of KG cultivators.

UG 3000 sprayer

New UG 3000 Super sprayer provides higher efficiency owing to the use of a pump with delivery rate of 370 l/min.

UX 6200 Super sprayer

New UX 6200 Super sprayer is the biggest model in the UX family. The main tank capacity is 6200 l.

Genius stubble cultivator

New mounted Genius stubble cultivator has got 3D tooth protection system that has been already proven in Centaur cultivators.

Cayena seeder

New Cayena drill is particularly suitable for sowing into very dry and stony soils.

Torum

Heat recovery dryer

Heat recovery HR dryers ensure energy savings of up to 30% as compared to conventional dryers. New heat recovery dryers can be supplied with the dust removal system that reduces dust emission into the atmosphere.

Unia Group

POLONEZ

The latest technology developments applied in the POLONEZ seeder make it possible to take full advantage of the properties of traditional mechanical drills. The increased spacing of disc coulters enables seed sowing into the soil with post-harvest residues. The central hydraulic hold-down system and the central coulters depth control enable precise coulters positioning in all soil conditions. Alternating double-disc coulters have special holders to mount combined packer and depth wheel units. A new, simple and ergonomic mechanism has been applied to make seeder adjustment tests. It can quickly set up the required

quantity of seeds. A large and easily readable scale used to set up the rate of seeding is especially helpful when sowing small quantities of small seeds.

FOCUS

The newest mounted tilling and sowing equipment with the centre of gravity moved towards the tractor, reduces the force needed to lift the machine. Depending on the soil conditions the attachment can be equipped with one of three aggregates: spring-loaded passive unit (FOCUS), disc mounted passive unit (FOCUS T) and active unit (FOCUS active). The fan powered by the hydraulic motor ensures precise operation of the pneumatic sowing system. Alternating double-disc coulters with the combined packer and depth wheel units make sure that seeds are placed uniformly at the same depth and pressed down to ensure contact with the moist soil. A multistage pressure control and a wide operating range of coulters facilitate sowing in hilly areas.

OMEGA II

A new design for the precise single seeder to sow seeds of beetroots, maize, sunflowers, etc. The pneumatic sowing system operating under partial vacuum ensures great sowing accuracy. OMEGA II can be equipped with discs having different number and diameter of holes depending on the size of seeds to be sown. A new sowing body has two easily adjustable seed scrapers. Simple scraper control has an effect on the sowing accuracy in case of various seed sizes. A special body design facilitates emptying of the seed chamber from the seed residues. Bigger diameter packer wheels are specially profiled. A new coulter is more tear resistant and its shape enables precise seed placement at the required depth. The OMEGA II variant for sowing maize can be equipped with the fully plastic DELTA fertilizer applicator to spread start-up doses of fertilizers.

CROSS combined machine

CROSS zero-tillage combined machine can be equipped with various work tools. It is used both for stubble shallow tilling and for work at the depth up to 25 cm where intensive mixing of crop residues takes place. Working elements of the CROSS L variant include the combination of a triple-row tooth section, overload spring protected, suitable for fast tillage at the depth up to 25 cm and a disc section with 460 mm diameter discs, mounted to the machine body and used for intensive cutting of crop residues and mixing them with the shallow soil.

KOS T breaking unit

KOS breaking units are distinguished by their strong frame with big clearance. The frame design ensures suitable cornering load and stability of the machine. Fuse protection or more work-suitable non-stop type spring protection provides very good operation under various working conditions. KOS T is our new product where double-row cutting and covering disc section with 460 mm diameter discs has been applied. The disc section is overload protected by means of rubber dampers. The working depth of the machine is spot controlled on the frame of the soil packing roller.

IBIS LH 3+1 plough

IBIS LH mounted reversible plough is non-stop type spring protected, fuse protected and hydraulically protected. Operating parameters are controlled by the change of pressure in the hydraulic system, to adapt it to the working conditions. Every plough body is equipped with a hydraulic cylinder instead of a fuse or a suspension spring. All cylinders are connected with gas charged hydraulic accumulator responsible for maintaining the defined release force set up by means of a valve.

IBIS reversible plough with rear support and transport wheel + TERRA H

This new solution combines a hydraulically controlled secondary-tillage roller with the IBIS XL reversible plough and the rear support and transport wheel. In case of obstacles in the field that have to be ploughed around (posts, stones, trees, etc.) or ploughing at the field

border, one cylinder picks up the arm with the work tool whereas the other sets up its toolbar in a position parallel to the plough frame. After passing the obstacle the operator lowers the toolbar which returns to its previous operating position. All changes in this subassembly setting during ploughing are controlled from the tractor cab. TERRA H is available with a working width of 2.0 and 2.5 m.

PLUS sprayers

A new series of PLUS sprayers has been equipped with new polyester tanks. The sprayers will replace currently produced 2,000 and 2,500 l capacity machines with polyethylene tanks. The change has been also made to the sprayer fluid system. The main tank has been equipped with rotating washers. The 2000 l version will be equipped with the new wheel system. Stepless controlled wheelbase within the range of 1.5-1.8 m and 9.5 x 44" wheels guarantee bigger clearance under the sprayer.

EUROPA II sprayers

The biggest PILMET field sprayers are suitable for professional protection. They are equipped with polyester tanks of 4000 l maximum capacity. They will be provided with a new tracking drawbar system to allow the trailed sprayer wheels to follow in the track of the tractor. The system will be manually operated from the control desk or automatically controlled. The Europa II series sprayers have rich standard equipment. In all models it is possible to add a GPS system, automatic control of spraying sections and spray boom height to the control computer.

TYTAN 7 premium

TYTAN 7 premium spreader of 5.5 ton capacity has been equipped with a universal vertical twin-roller adapter with discs. The spreader can be used for spreading lime, poultry dung, peat or compost. A robust, modern design and rich standard equipment allow operators to make optimum use of the machine advantages. The applied tandem driving system enables stable spreader operation under heavy field conditions. Quick motion of the drawbar from the top to bottom position makes it easy to select proper drawbar position to match the tractor.

APOLLO 8

APOLLO 8 spreader, just like other spreaders from this series (APOLLO 11, APOLLO 14), has been equipped with the large wheeled, single axle driving system. Such a system guarantees lower rolling friction and provides good load capacity and manoeuvrability. It also strongly facilitates motion in difficult conditions. The APOLLO 8 spreader is equipped with a universal double roller wide spreading worm adapter as a standard. Two aggressive spreading rollers quickly process manure or other material brought by the floor bars. Large discs with four suitably shaped, wear resistant paddles allow to reach the spread width of even several meters and maintain very good uniformity.

TYTAN 24

TYTAN 24 is a spreader of 18 ton load capacity. Wide tyres and the shock absorbed axle provide proper operating stability in heavy conditions. If a need arises, the spreader can be equipped with a universal double-roller vertical adapter to spread manure and other fine materials or with the disc-type horizontal adapter to spread lime, compost or peat.

Alka XL low-drive mower

Alka XL low-drive, rear mounted, disc mower with forage conditioner is suitable for mowing all kinds of green crops used for direct feeding, hay or further processing. It is characterized by large working width, high efficiency and low power demand. The mower can be equipped with a forage conditioner or a forage crusher. The machine has solid and durable suspension, a levelling hydraulic cylinder to facilitate coupling of the machine to the tractor, and the unique centrally mounted working bar system.

Alka XLC low-drive front mower with the forage conditioner

ALKA XLC front mowers are modern professional machines suitable for mowing all green crops used for direct feeding, for hay or further processing. They can be equipped with a forage conditioner or crusher. Massive, durable suspension as well as innovative centrally mounted working bar system allow the machine to work even in difficult terrain conditions.

df1,9z baling press

The df1,9z baling press is the variable-chamber belt type baler of 2.1 m gathering width. The bale diameter can be adjusted suitably to the needs within the range from 0.8 to 1.87 m. Thanks to the belt design of the pressing chamber the bale is strongly pressed right from the beginning of its forming. The squeezing force is hydraulically and infinitely variable controlled until the maximum value of 200 bar is achieved. The efficient, spiral rotor ensures above average capacity of the feeding system. The df1,9zd version is equipped with a mulcher to obtain high-energy haylage.

Valcent

VertiCrop™ – Vertical farming systems

VertiCrop™ is based on state-of-the-art solutions in science and technology relating to effective vegetable and plant production. Vertical farming systems make it possible to achieve a 20-fold increase in annual yields with a simultaneous 90% reduction of water consumption. A fully controlled environment ensures fast and safe plant growth without the need to use pesticides. Plants are grown in specially designed trays arranged in several tiers in a rotating conveyor system supplying each tray with water and nutrients. VertiCrop™ can be adapted for each climatic region, supplying the local market with fresh fruit and vegetables 365 days a year.

Veles-Agro

PD – 3.3 disc plough

PD – 3.3 disc plough is intended for tillage of soils for grain and industrial crops.

Vogel & Noot Polska

Terra Dig

Terra Dig is a new machine combining the properties of a grubber and a loosener. It is suitable for deep restoration and maintenance of soil structure. The bottom part loosens the soil without mixing its layers. Wings mounted on the working mechanisms make it possible to use no-tillage practices. The hydraulically controlled double hook roller efficiently mixes the loosened soil. The machine is available in sizes from 2.5 to 5 m, with working depth from 55 to 70 cm and with 5 to 11 working teeth secured hydraulically or with a retainer pin.

Zuptor

Mixer 2500 kg

Sometimes the need arises to use the feed mixer as a tank for the ready-made feed. To meet this requirement we have constructed a mixer of 2,500 kg load capacity. The unit can be used as an independent machine or it can operate with a shredder in a process line. The strengths of the mixer are its optimum parameters: height – 3.5 m, diameter – 1.80 m, installed motor power: 5.5 kW, mixing accuracy: 1:10000. It is possible to install the top or bottom filtration system for dust removal.

Grain mills 30 kW

A new type of the suction and force grain mill powered by the 30 KW motor makes it possible to obtain the capacity of 3 tons per hour. Some working components have been made from more wear-resistant materials to prolong the life of spare parts

Multi-way distributor for suction and force mill

The multi-way distributor helps the suction and force grain mill to pick up the grain from many places (from many grain piles, silos, etc.) without loss of crushed grain capacity. From two- to eight-way variants can be available.