

Gold Medal 2023 – awarded products

PLANTS:

1. DAŃKOWSKIE ALVARO – Winter rye

DANKO Hodowla Roślin Sp. z o.o.

Dańkowskie Alvaro, a variety of population rye with an outstanding yield. It is a very early variety. Perfect adaptation to different climate and soil conditions. High tolerance to soil acidity. It has a very good disease resistance. A variety with a slightly shortened stem and high resistance to lodging, which ensures the safety of cultivation. Fine, thick grain. High quality parameters, for milling and baking purposes. Low susceptibility to ergot. Amazing tillering ability.



2. ELEKTRA – Winter wheat Variety

HODOWLA ROŚLIN STRZELCE Sp. z o.o. IHAR Group

ELEKTRA winter wheat is a variety with above-average yielding potential. Importantly, high yields were confirmed in years with different weather conditions. ELEKTRA meets the assumptions of the 'Green Deal', because thanks to its very good resistance to fungal diseases, reduced doses of plant protection products can be used in its cultivation. Farmers will undoubtedly appreciate its advantages, as well as its impressive ears so any ELEKTRA plantation cannot be left unnoticed.



3. Rekrut spring barley

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

It has a very good health profile with good resistance to powdery mildew, rhinchosporium and dark brown blotch. It is characterised by good resistance to lodging before harvest. The COBORU (Central Research Centre for Cultivar Testing) standard since 2021.



4. MHR Nela meadow clover

Małopolska Hodowla Roślin Sp. z o.o.

MHR Nela is a diploid variety with an exceptionally high yield potential and very high protein content. Resistant to periodic water shortages, and in high humidity conditions shows high resistance to infection by fungal diseases. It grows back quickly after swaths and forms a dense compact sward that does not allow for heavy weed growth. The average yield of seeds is 4.5 q/ha, and in favourable conditions up to 6 q/ha. Dedicated to mowing (for green fodder and hay) both in pure sowing and in mixtures with grasses. Variety entered into National Registry in 2022.



5. SM Giewont maize

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

The best-yielding variety in terms of dry and fresh weight in the mid-late group in the two-year registration studies in 2020 and 2021 by the Central Research Centre for Cultivar Testing (COBORU). It builds very tall plants with rich foliage, one of the highest tested varieties in its group. Recommended for cultivation for energy silage throughout the entire country – a very large share of cobs in the harvested mass. During the registration tests, it obtained the highest yield of NEL units in its earliness group – 106% of the standard.



6. AGAT Narrow-leaved lupine

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

In the 2017-18 registration experiments, it achieved the highest seed yield of all narrow-leaved lupine varieties, 111% of the standard. A variety of typical height for the species, branching. Very stiff plants, with very high resistance to pod cracking and very resistant (highest resistance) to fusarium wilt. Seeds of medium thickness with reduced alkaloid content (0.014%) and average protein content. Recommended by the Central Research Centre for Cultivar Testing for cultivation in the following voivodeships: Kujawsko-Pomorskie 2021, Lubuskie 2021, łódzkie 2021, Mazowieckie 2021, Podkarpackie 2021, Podlaskie 2021, Pomorskie 2021, Śląskie 2021, Warmińsko-Mazurskie 2021, Wielkopolskie 2021, Zachodnio-Pomorskie 2021.



7. Zorba Narrow-leaved lupine

Poznańska Hodowla Roślin Sp. z o.o.

Zorba is a new sweet variety of blue lupine from 'Poznańska Hodowla Roślin'. The plants ripen very evenly and the variety is characterised by a phenomenal yield of seeds, which has been confirmed in the tests carried out by the Central Research Centre for Cultivar Testing. The seeds have one of the highest protein content among the varieties available on the market.



8. MEDALION – Winter triticale variety

HODOWLA ROŚLIN STRZELCE Sp. z o.o. IHAR Group

MEDALION – the first leafless winter triticale variety registered in 2020. The lack of bones is an additional advantage when preparing greens and silage from triticale. Since 2022, MEDALION has been a fertility standard of the Central Research Centre for Cultivar Testing which emphasises the high yield potential of this variety. It is characterised by very good winter hardiness, high resistance to fungal diseases and lodging. MEDALION dynamically develops in autumn and spreads very well, so it can be successfully sown later.



9. Liberia winter wheat

Poznańska Hodowla Roślin Sp. z o.o.

Winter wheat Liberia is the latest variety from Poznańska Hodowla Roślin. It is characterised by the best features such as: high and stable yielding in various conditions, very good grain quality parameters, high winter hardiness and outstanding resistance to diseases and lodging.






10. RUMBA F1 Radish

PLANTICO – Hodowla i Nasiennictwo Ogrodnicze Zielonki Sp. z o.o.

Early variety with spherical, hard and even roots. The skin is thin, shiny, bright red. The flesh is matt white, delicate in taste. It shows a very low tendency to cracking and tearing of beads. Short, half-raised leaves, perfect for budding. The vegetation period is approx. 29–31 days. The variety is recommended for cultivation in the ground in spring and under unheated covers in early spring and autumn.



<p>11. TILMOR spring barley</p> <p>DANKO Hodowla Roślin Sp. z o.o.</p> <p>Tilmor is a spring barley variety. The highest yielding variety in 2021, and one of the highest yielding varieties in 2022. For different climatic and soil conditions. It tolerates drought well. For less intensive cultivation technology. Very good resistance to all tested diseases. Medium-early, medium height, beautifully presented in the field, very good resistance to lodging. Very thick, nice grain with very good uniformity. Very good tillering ability.</p>	 <p>The image shows a close-up of golden-brown Tilmor spring barley spikes. In the top left corner, there is a logo for 'International Agricultural Fair polagra PREMIERY' and a 'GOLD MEDAL 2023' award. In the bottom right corner, there is a logo for 'DANKO' featuring a stylized green and yellow plant.</p>
<p>12. TRIBUTO winter triticale</p> <p>DANKO Hodowla Roślin Sp. z o.o.</p> <p>Tributo is a winter triticale variety. The highest yielding variety in Poland. Medium-late earing and medium-early maturing variety. Medium-height plants with good resistance to lodging. Excellent disease resistance and high health. High winter-hardiness (5.0). Good resistance to sprouting of grain in the ear. Beautiful, even grain with high protein content. Excellent tillering ability, low seeding standards. It is a small variety with a silvery colour and beautiful long spikes.</p>	 <p>The image shows a field of Tributo winter triticale with silvery-grey spikes. In the top left corner, there is a logo for 'International Agricultural Fair polagra PREMIERY' and a 'GOLD MEDAL 2023' award. In the bottom right corner, there is a logo for 'DANKO' featuring a stylized green and yellow plant.</p>
<p>13. TROFEUM – Spring barley variety</p> <p>HODOWLA ROŚLIN STRZELCE Sp. z o.o. IHAR Group</p> <p>Spring barley TROFEUM is a variety that is currently one of the highest and most stable yielding varieties of spring barley in Poland. This result is achieved thanks to the synergistic effect of combining above-average resistance to fungal diseases, good resistance to lodging, increased tolerance to reduced soil pH and tolerance to periodic water shortages. An additional advantage of the TROFEUM variety is its very high grain density.</p>	 <p>The image shows a close-up of green Trofeum spring barley spikes. In the top left corner, there is a logo for 'International Agricultural Fair polagra PREMIERY' and a 'GOLD MEDAL 2023' award. In the bottom right corner, there is a logo for 'Hodowla Roślin STRZELCE' featuring a stylized blue and yellow plant.</p>
<p style="text-align: center;">MACHINERY:</p>	

1. AGRI JACOBUS. Autonomous laser system for non-chemical weed control in agricultural and vegetable crops.

AGROCOM POLSKA, Wrocław University of Technology, Jerzy Koronczok

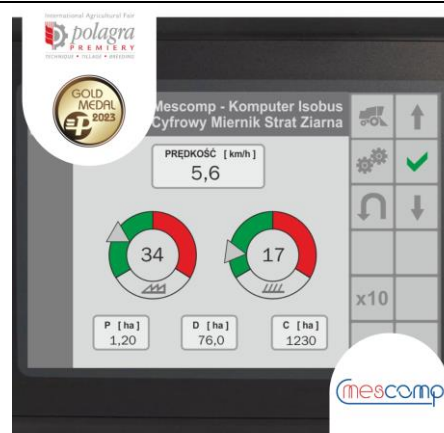
AGRI JACOBUS is a pioneering response to the growing demands of food consumers and the progressive restrictions on the use of plant protection products. The autonomous AGRI JACOBUS robot, moving autonomously around the field, recognises weeds in real time using a vision system in row plant crops, e.g., sugar beets, and then, using precisely directed laser radiation, stops the life functions of undesirable plants. The AGRI JACOBUS system is powered entirely by electricity. This platform enables functional customisation and scaling to specific needs.



2. Digital grain loss metre for combine harvesters working with Isobus monitors

Mescomp

Mescomp's patented Digital Grain Loss Metre counts every lost grain hitting the measuring beam, does not require calibration and objectively reports losses in thousands of seeds per hectare. Designed to be installed on the latest combine harvesters with a radial straw spreader where traditional loss sensors requiring calibration are useless. The device has very clear graphics displayed on the Isobus monitor screen, a service centre located in Poland and, like all Mescomp devices, it is very easy to use.



3. Internet Platform for Advising and Decision Support in Integrated Plant Protection – eDWIN

Wielkopolska Agricultural Advisory Centre in Poznań

Four electronic services: warnings against hazards in the field, current meteorological data, support for decisions regarding the timing and amount of plant protection products used, and simplified contact with the agricultural advisor – such support is offered to farmers by the eDWIN advisory platform, which has been available on the market since June 2022. The eDWIN platform is another step towards digitisation, modernisation of Polish agriculture supporting farmers in their daily work.



4. EM LIZARD – AUTONOMOUS FEED PUSHING SYSTEM

GAMA GROUP SZEPIETOWSCY Sp. J.

The machine PREMIERED at this year's EUROTIER 2022 fair in Hannover, Germany. EM LIZARD is an autonomous vehicle manufactured and designed entirely in Poland. The machine and the auger are driven by brushless BLDC motors through planetary gears, which ensures maintenance-free operation.



5. FuelMaster® 2500 L

Kingspan Water & Energy Sp. z o.o.

The FuelMaster® 2500 L diesel fuel storage and distribution tank is characterised by reliability, trouble-free operation and a 10-year warranty. Its double-jacket construction ensures protection of the stored substance, and the lockable housing prevents unauthorised access. The ergonomic distribution box ensures convenient access and use. The intelligent level and flow measuring system provides full control over the operation of the pump, filler, liquid level management and alerts – everything from the level of an intuitive mobile application.



6. SKAVSKA HALE 13M ARCHED HALL

SKAVSKA HALE Sp. z o.o.

The SKAVSKA 13M arched hall is a well-thought-out, durable structure, which is universal in use. Innovative improvements to the structure, and at the same time care for the environment by optimising the amount of raw materials used are implemented, while maintaining resistance to weather conditions. Each stage of production is subject to TUV control and certification, which is important because the structure has been specially designed for all wind and snow zones in Poland and Europe. The innovations introduced in this model help to reduce condensation, increase the usable volume, as well as resistance to snow and gusts of wind. The 13M model allows you to store crops, machinery and is perfect for animal husbandry. The design assumptions allow expansion and change of purpose during operation.



7. Irriget.com – online satellite irrigation decision support service

Wasat Sp. z o.o.

Irriget.com provides precise information on the current moisture conditions in the fields. The results of satellite and meteorological data analysis, presented in an intuitive way, without the need for additional devices or measuring stations, allow you to estimate the amount of water that evaporates from each part of the field each day. This information enables quick and very convenient monitoring of the situation in the fields and making optimal decisions related to the date, place and dose of irrigation.



8. JCB 542-70 AGRI PRO TELEHANDLER

JCB / PPHU GAŁKOWSKI Sp. z o.o.

New AGRI PRO – 50km/h Parameters: 4.8 litre, 4-cylinder engine – JCB DieselMAX Stage V. 175 HP (129kW), 690Nm at 1500 rpm. High speed DualTech transmission – 50kph 160l/min – Variable flow hydraulic piston pump Larger heavy duty JCB 10 stud axles European type of tractor approved as T1B tractor.



9. MLT 850-145V+ Telehandler

Manitou Polska Sp. z o. o. (a branch of the French manufacturer Manitou BF) / Przedsiębiorstwo Usługowo-Produkcyjne AGROMIX Sp. z o. o

The MLT 850-145 V+ telehandler is a machine with a load capacity of 5 tons and a working height of 7.6 meters. It has the highest technical parameters in the class of comparable machines on the market! Intelligent and innovative solutions affect productivity, operator comfort and significantly reduce the total cost of ownership (TCO).



10. Mzuri Pro-Til 4Tx Combined cultivator and seed drill

MZURI-WORLD Sp. z o.o.

The Pro TIL 4Tx is a multi-tasking machine. This allows for a much larger, better and more effective use of the fields. With Pro TIL 4Tx, you can experiment with sowing of different types of fertilisers and plant seeds. This results in maintaining high fertility and capability of the soil. The Pro-TIL 4Tx machine also has the SELECT function that allows you to change the row spacing at the touch of a button. This feature allows for wide spacing of 72.6 cm necessary for sowing grain maize, sunflower or rapeseed.



11. A platform supporting harvest forecasting and monitoring on a regional scale

SatAgro Sp. z o.o.

The platform supporting harvest forecasting and monitoring was created for companies that contract, purchase and process agricultural produce on a regional scale. Its main goal is to support logistics and optimise the harvest at every stage. The platform is the result of several years of cooperation with large sugar mills in the United States. The solution has been adapted to the European market, which is characterised by smaller arable fields and a more diverse cultivation culture.



12. RAUCH AERO 32.1 Fertiliser spreader

KUHN-MASZYNY ROLNICZE Sp. z o.o.

A precise pneumatic fertiliser spreader. High level of fertilisation quality. The advantage of the RAUCH AERO 32.1 mounted pneumatic fertiliser spreader is efficiency combined with the highest precision, even in the case of fertilisers with problematic volatile properties. The AERO 32.1 precision spreader is characterised by the accuracy of dosing and spreading the fertiliser. External factors such as wind, fertiliser quality or slope do not affect the spreading pattern and thus the precision of spreading the fertiliser. The technology of spreading fertilisers currently introduced by RAUCH also makes a huge contribution to environmentally friendly agriculture. The RAUCH AERO 32.1 pneumatic spreader is designed for farms where the highest precision, exceptional cost-effectiveness of fertilisation and high efficiency regardless of weather conditions are important. For farms using variable dosing maps, this spreader allows the use of variable fertiliser dosing on each of the four sections separately, which is an ultra-precise solution.



13. MEPU M4-45 Mobile dryer

MEPU OY

The M4-45 mobile dryer is the best choice and one of the few such a highly advanced product designed for drying all kinds of cereal grains. A wide range of optional equipment allows you to configure a highly automated, environmentally-friendly and economical grain dryer that uses the latest solutions to guarantee work efficiency, unprecedented in other products of this type, with relatively low labour costs.



14. DirectInjekt System – Additional direct power supply

AMAZONEN-WERKE H.DREYER SE&Co.KG, AMAZONE POLSKA Sp. z o.o.

The DirectInjekt system allows for the quick and flexible use of an additional plant protection product that meets the needs in specific field conditions. Its advantages include the saving of costs and working time, the cost of operating the machine, the reduction of plant protection products, environmental protection, as well as the optimal condition of crops and optimal yield.

