



**VARIANT
IRRIGATION**

RELIABLE IRRIGATION IS A PROFITABLE FARM BUSINESS

Ukrainian brand of irrigation equipment

CATALOG
of irrigation
systems

- pivot irrigation system
- linear irrigation system
- hippodrome irrigation
- variant-irrigation.com.ua

“VARIANT AGRO BUILD” LTD / “VARIANT IRRIGATION”™
is one of the largest manufacturer of wide-coverage
irrigation systems in Eastern Europe.

We are a Ukrainian production and service company that specializes
in **production of irrigation systems for agricultural enterprises.**



We annually execute **more than 100 projects**
for the implementation of irrigation systems.



Leader in the number of produced
irrigation systems in Ukraine.



We export equipment to Europe and the CIS.



Variant Agro Build is the member of the production corporation of ten enterprises working in the field of metal processing and manufacturing of metal processing equipment.



The corporation is in business since 1995.



We have over 20 years of experience in metal processing and brilliant reputation both in Ukraine and far beyond its borders.



Our Customers are companies from 60 countries, including world famous brands.



The headquarters and production facilities are located in Kharkiv, total area of the plant 16,000 m².



Production capacity: 1,000 tons of metal per month, 12,000 tons per year.



Our high-tech production is marked with the European conformity mark «CE» and are certified according to ISO 3834 «Quality requirements for fusion welding of metallic materials», EN 1090 «CE-Marking», ISO 9001 «Quality management systems — Requirements».



The company has accomplished more than 150 projects inside Ukraine.



The equipment produced by Variant Agro Build LLC is included in the List of Ukrainian machinery and equipment for agriculture the cost of which is partially covered by the state.

Headquarters and production facilities of Variant Agro Build LTD

The headquarters and production facilities of Variant Agro Build LTD are located in Kharkiv, Ukraine. Total area of the plant 16,000 m². The factory has the newest high-tech equipment and well equipped warehouse for finished products. The company processes 1,000 tons of metal per month or 12,000 tons per year and this amount is constantly increasing. Own production capacity allows producing equipment for storage of 500 thousand tons of crops per year.



Variant Agro Build LTD has a highly equipped own production.



We produce agricultural equipment of any level of complexity.



Quality control is carried out at all stages of production.



Our QC specialists check every part for compliance with the design documentation.



In 2018 the company passed ISO 3834 certification

In 2018 the company passed the certification according to ISO 3834 «Quality requirements for fusion welding of metallic materials» and EN 1090 «CE-Marking», and a little earlier, in 2017 received a certificate ISO 9001 «Quality management systems – Requirements». By obtaining these certificates the company has once again confirmed its compliance with the high requirements of European quality standards and the right to mark its products with the CE mark (Conformité Européenne - European Conformity).

Our job is to fulfill your wishes!

Own design bureau and production facilities of Variant Agro Build allows to produce irrigation systems of any configuration in order to meet the individual needs of each customer. As a result, our equipment will increase the profitability and the income of your enterprise.



By choosing us you will receive:

- Ukrainian equipment of European quality.
- State compensation for the cost of equipment.
- 100% assembling by our specialists
- 24 months' warranty on equipment manufactured by Variant Agro Build LLC, starting from the date of installation completion.
- Post warranty servicing by our own customer service.
- Availability of components from the manufacturer warehouse.
- Rapid reaction maintenance team working on the whole territory of Ukraine.



VAD VARIANT AGRO BUILD

Crops that can be cultivated under irrigation:



Industrial crops



Cereals

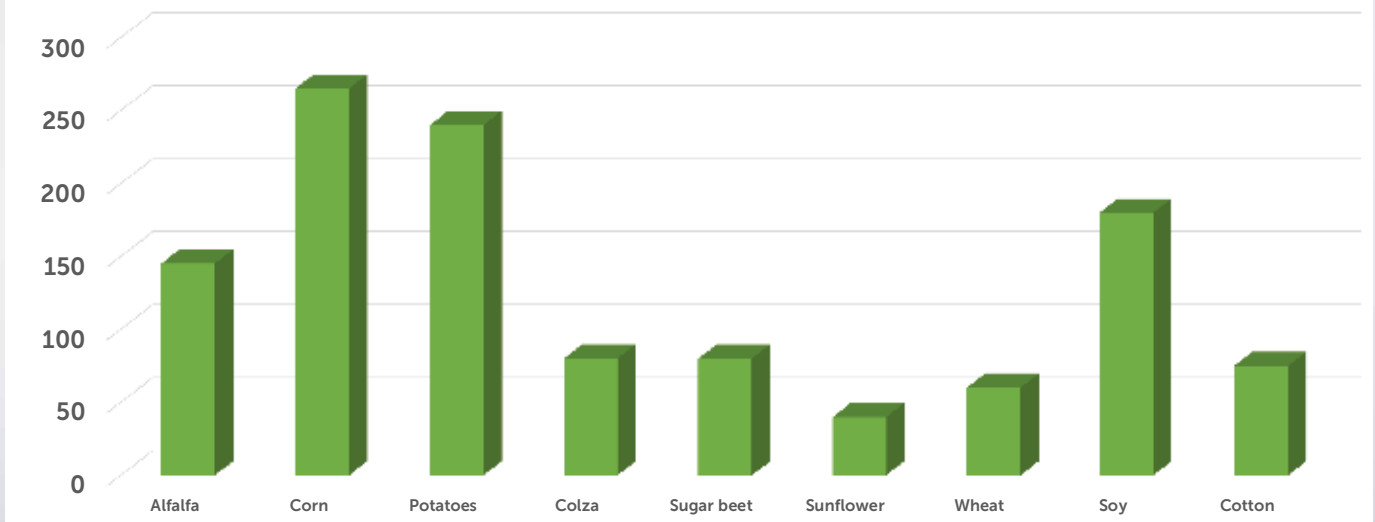


Small grains



Vegetables

Crop yield response to water (%) (at optimal other factors)



Irrigation - an effective method of yield increasing Global warming and saving the ecosystem

Global warming must be kept within 1.5 degrees Celsius and this is an unprecedented challenge. This is stated in the report of UN experts.

“Even at present time scientists are tracing an increase in temperature of about one degree and, as a result, extreme weather conditions, sea levels rising and glaciers melting. An increase in temperature above this level, according to IPCC, can lead to irreversible effects and loss of ecosystems».





Irrigation is one of the key factors in solving weather problems. The frequency of summer droughts is increasing recent years. Reducing of precipitation adversely affects the quality and quantity of the harvested crop.

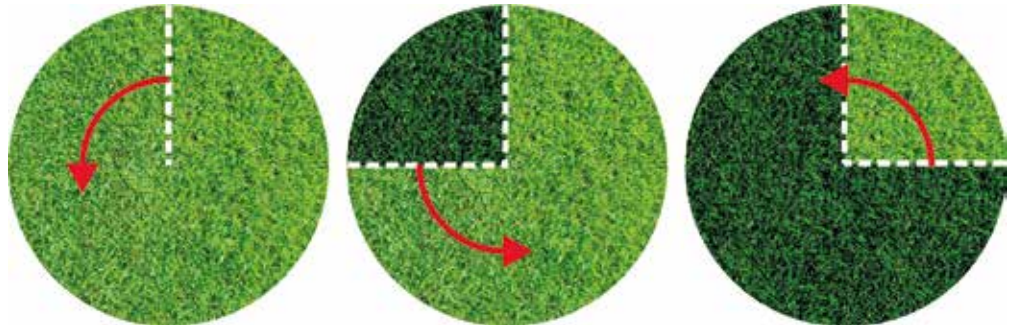
Investments in irrigation system will increase crop yield up to 2 times with minimal labor costs, and will also make your agricultural enterprise stable, highly profitable and independent of climate fluctuations.

Variant Agro Build irrigation systems are suitable for medium and large fields of any areas and configurations.

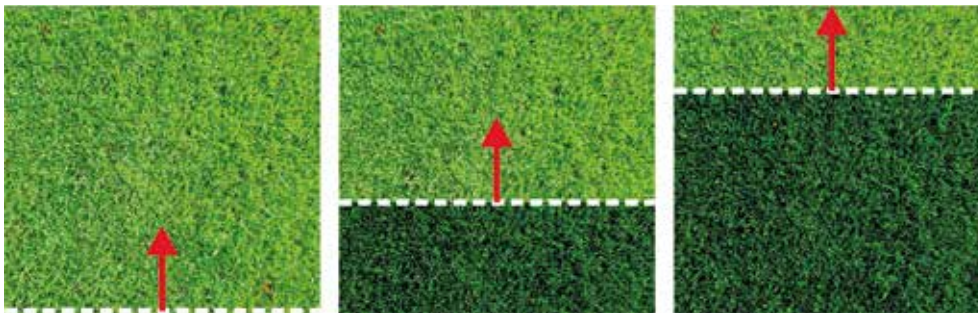
Types of irrigation machines:

Pivot irrigation system

Designed for irrigation of square fields.



Linear irrigation system



Designed for irrigation of rectangular and long fields. The whole structure moves linearly along the irrigated area.

Hippodrome irrigation system

Designed for irrigation of square, rectangular and trapezoid areas, has the ability to make turns at several points.



Advantages of our irrigation machines:

- High economic efficiency.
- Low work pressure.
- Low labor costs.
- The optimal solution for watering the entire area of the field with complex configuration.
- Watering efficiency reaches 99%.

Pivot irrigation system

The base is rigidly fixed, and the rest of the structure moves around by electric drive wheels. Connection to a water source is at central support tower.



Linear irrigation system

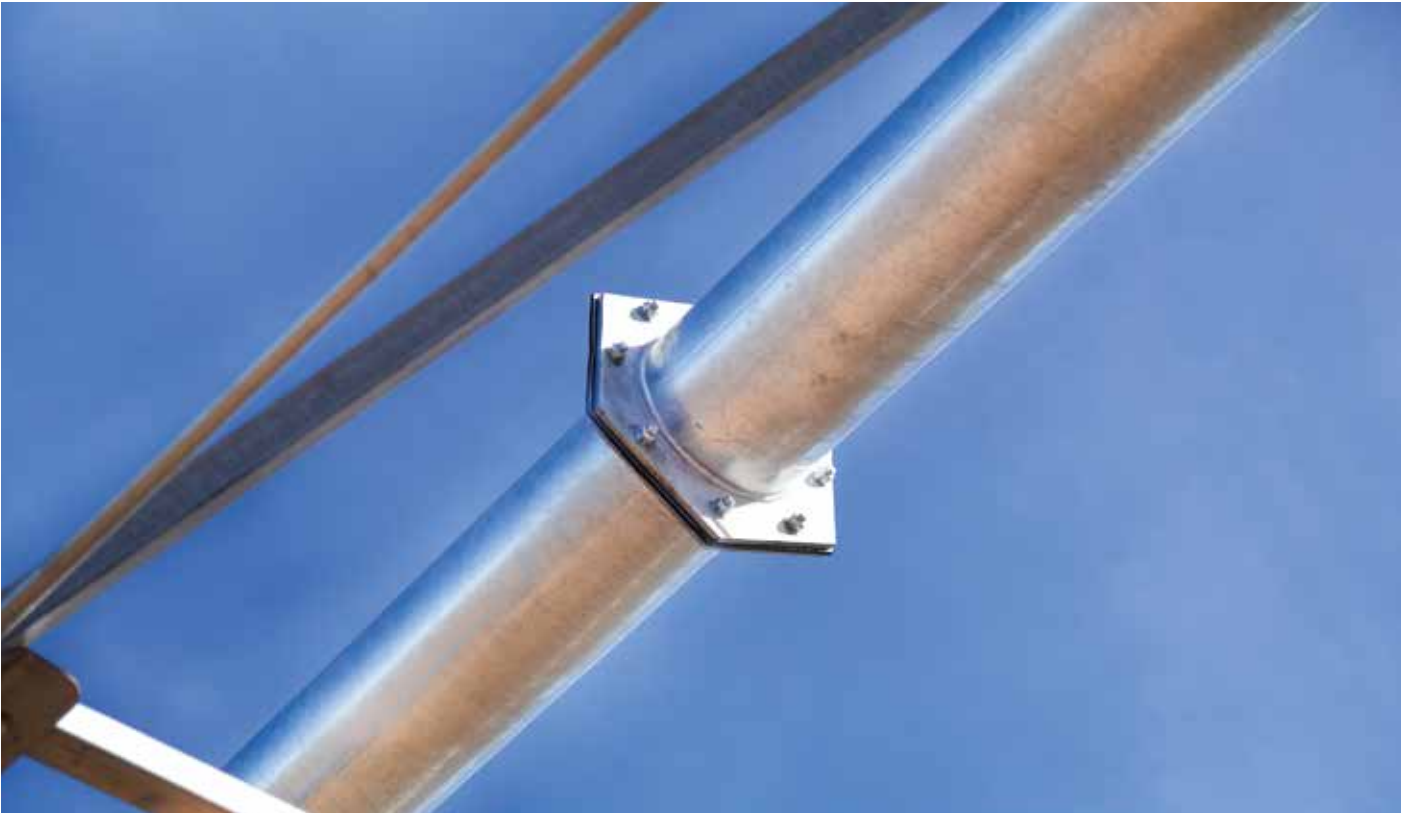
The whole structure moves linearly along the irrigated area. Water is supplied through the hose directly from a hydrant located along the field.



Hippodrome irrigation system

Has the ability to make turns at several points. If necessary, rotates without fastening the central cart. Water is supplied through the hose directly from a hydrant located along the field.



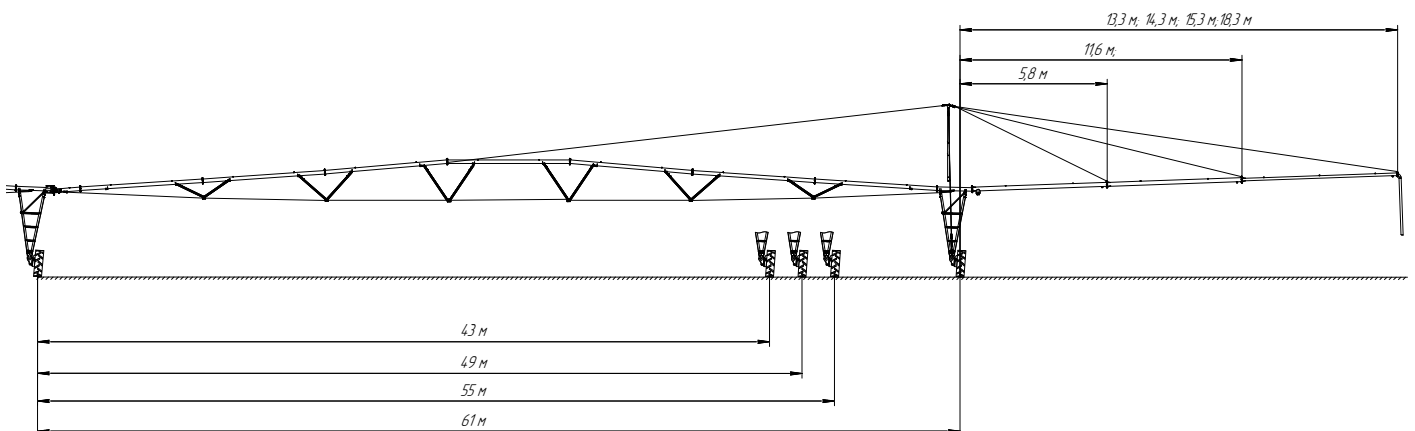


Pipes, sections and console:

In our irrigation machines we use pipes produced by LLC "DMZ Kominmet", Ukraine and «Padana Tubi Profilati», Italy. L-profile for irrigation systems produced by LLC "DMZ Kominmet", Ukraine and ArcelorMittal, Luxembourg. Dimensions, mm: 50x50x4; 80x80x8. All steel components are hot dip galvanized, coating thickness 120-300 microns.

For all types of our machines we use tubes:

- Diameter 168 mm, 219 mm
- Wall thickness 3 mm
- Pipe length in sections 5.8 m
- Console length up to 20 m





Current collector, control cabinet:

For control cabinets and control boxes, where reliability and frequency of operation are very important, we use electrical components from Schneider Electric (France), Weidmüller (Germany), OMRON (Japan), ETI (Slovenia). Current collector, 13 rings, manufacturer Hydrus (USA).





Sprinklers:

Variant Agro Build irrigation systems can be equipped with sprinklers from Senninger Irrigation Inc., USA or Komet, Austria.



Irrigation machine evenly distributes water throughout the covered area. This means that it irrigates the area at a significantly lower level of instant intensity.

In result is less soil compaction and less water runoff .

Booster pump and water cannon:

- Booster pump BP2HL-HY-50, Hydrus, USA
- Water jet Twin 101 ULTRA, Komet Austria GmbH





Mobile support:

- Trapezoidal shape increases the stability of mobile supports.
- Massive bearing L-profile bars provide increased rigidity.
- Optimal force distribution ensures uniform loading of the structural elements and increases service life.
- The wide wheelbase guarantees high stability even on rough terrain and at squally wind.

Control boxes:

The control boxes of our irrigation machines feature original design, response accuracy, minimum stroke of limit switch and reliability within a large number of working cycles. The base and fastening of the boxes are made of galvanized steel, the cover is made of plastic with a rubber seal for additional protection from water penetration into the box.





Gearmotors and wheels:

Irrigation systems of Variant Agro Build LTD are equipped with central gearmotors and wheel gearboxes manufactured by Irrigation Components International Inc., USA.



▪ GERMOTOR, HELICAL 35 RPM, 40:1, 0,75 HP 28 RPM, 50:1, 0,75 HP



▪ Wheel gearbox ICII-152 GB

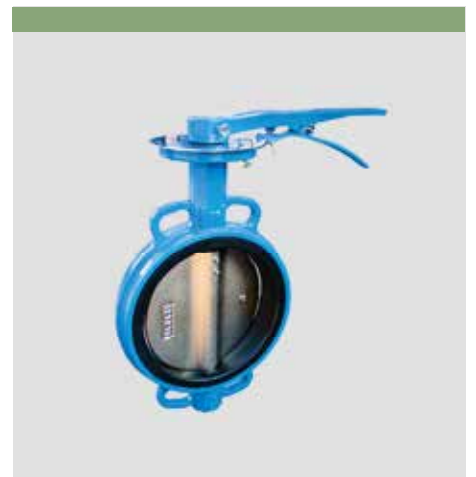


▪ Wheels 14.9R24



Central tower:

Increased strength with reliable design and wide base, special welding technology for the highest stability, optimal hydraulic properties and tightness.



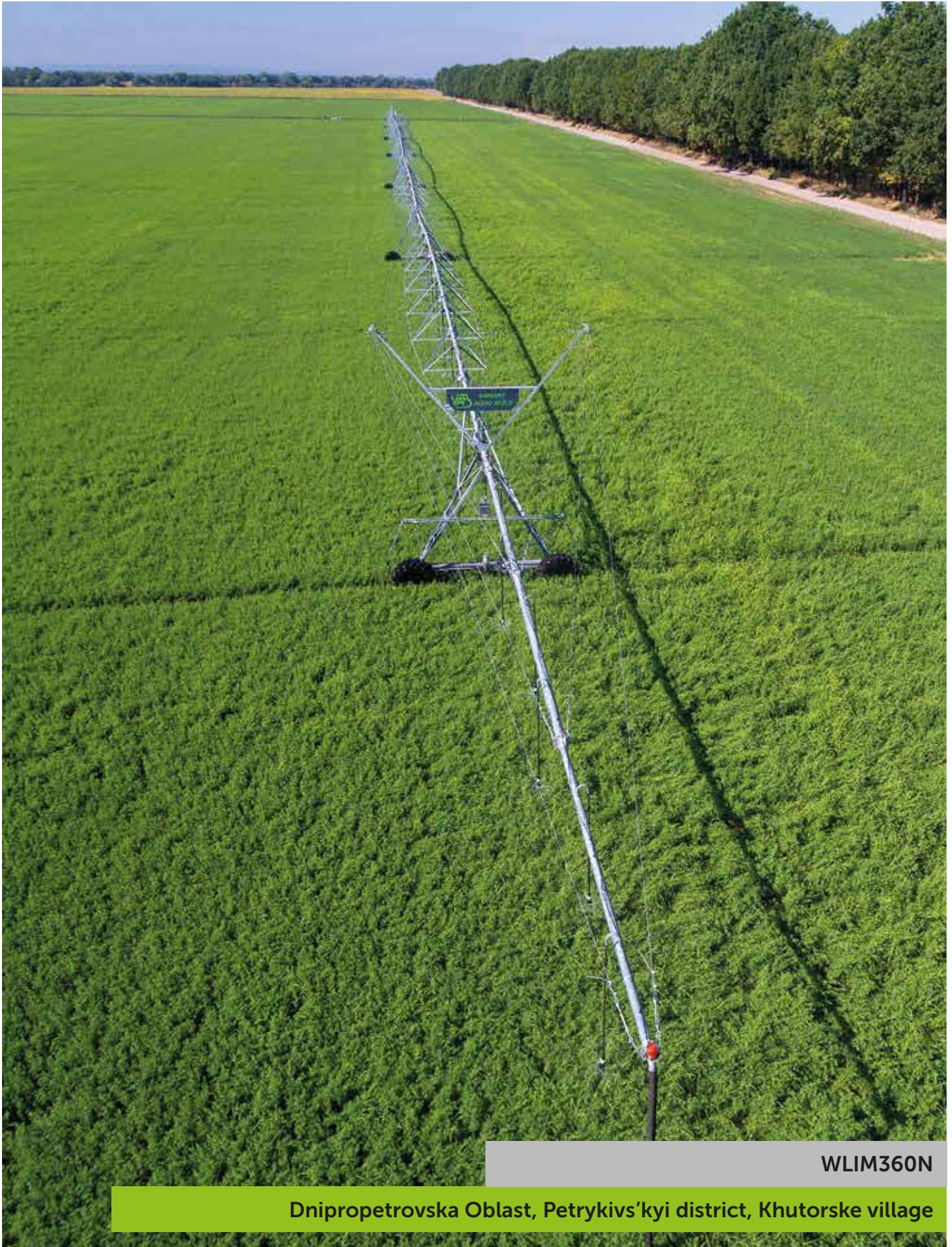
- Central tower height (m): 4.55; 4.60; 4.99 (depending on model).
- Diameter of pipes at central pivot (mm): 168; 219.
- Stabilizing device for movement along the furrow and along the cable.



Diesel generator unit:

Irrigation machines produced by Variant Agro Build LTD can be equipped with the following diesel power units: Europower (Kubota engine), DaLgakistan (Cooper engine) and Wattstream (Perkins engine) of various models with power from 7 kW to 24 kW and fuel consumption from 2 LPH to 7 LPH.





WLIM360N

Dnipropetrovska Oblast, Petrykivs'kyi district, Khutorske village



WCIM614N

Kherson Oblast., Belozerskiy district, Soldats'ke village

Suppliers:

DALGAKIRAN



diesel generator units

Schneider
Electric

electrical components

HYDRUS

current collectors, booster pumps

PADANA TUBI
& PROFILATI ACCIAIO S.P.A.

tubing



ArcelorMittal

L-profiles

Weidmüller 

electrical components

Senninger
Irrigation Inc.

sprinklers

ETI

electrical components

 **komet**

sprinklers, end water jets

OMRON

contactors



central and wheel gearboxes


 **Lovato**
electric

relay and fuse terminals



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