

# SEED CATALOGUE

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by nature, improved  
by professionals!**




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# ABOUT “ATAMEKEN-AGRO”



One of the largest agricultural holdings of the Republic of Kazakhstan, JSC "Atameken-Agro" occupies a leading position in its sector. The history of the company has started since 2003.

Over a long period of operation, the holding has united 15 companies specializing in crop production, animal husbandry, storage and processing of grain crops, as well as related construction and sale of agricultural products.

**100 000 +**

tons of export  
products per year

**516 000 +**

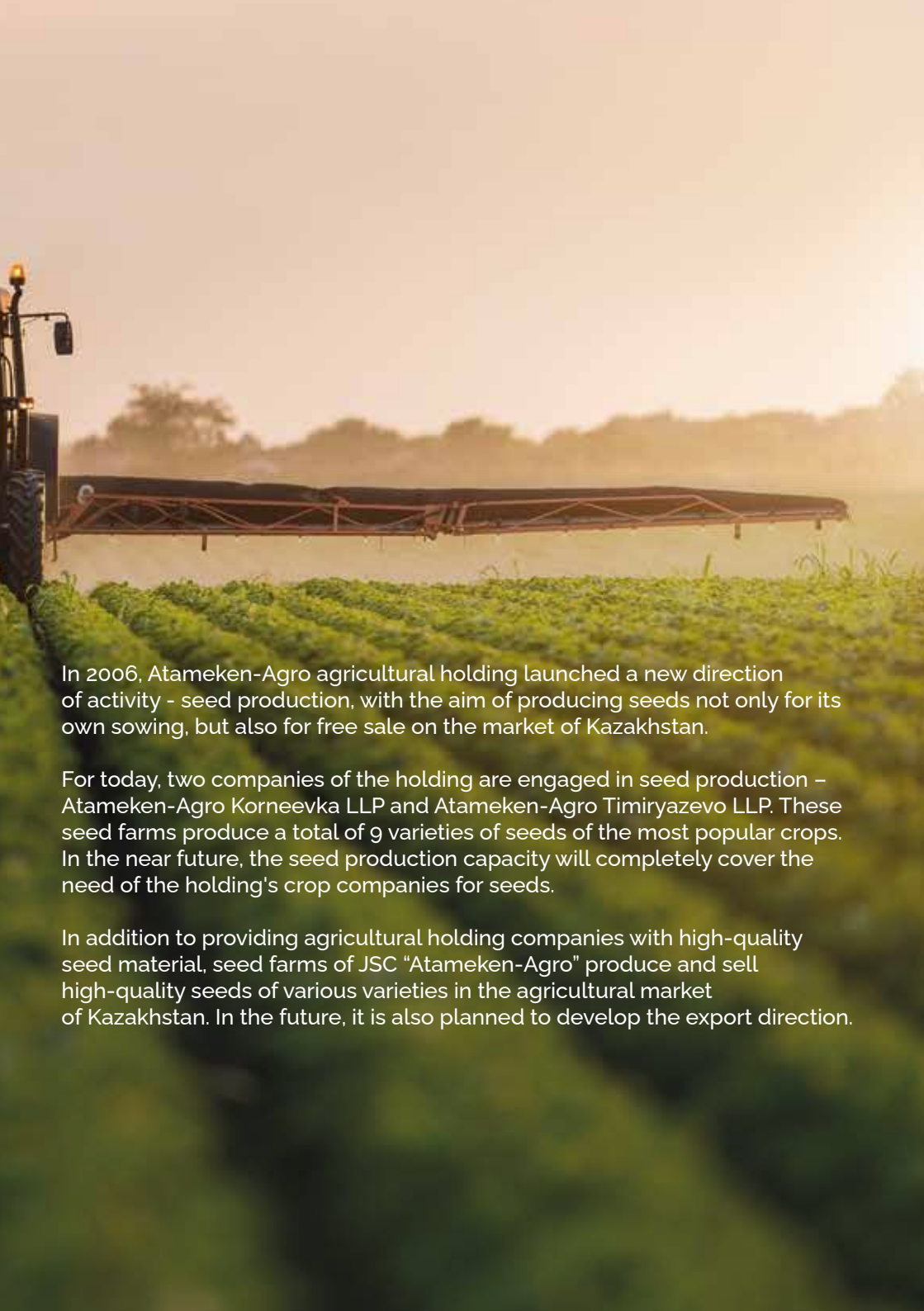
tons storage capacity

**441 000 +**

hectares of land fund

**321 000 +**

hectares of arable land



In 2006, Atameken-Agro agricultural holding launched a new direction of activity - seed production, with the aim of producing seeds not only for its own sowing, but also for free sale on the market of Kazakhstan.

For today, two companies of the holding are engaged in seed production – Atameken-Agro Korneevka LLP and Atameken-Agro Timiryazev LLP. These seed farms produce a total of 9 varieties of seeds of the most popular crops. In the near future, the seed production capacity will completely cover the need of the holding's crop companies for seeds.

In addition to providing agricultural holding companies with high-quality seed material, seed farms of JSC "Atameken-Agro" produce and sell high-quality seeds of various varieties in the agricultural market of Kazakhstan. In the future, it is also planned to develop the export direction.

# THE PLANT FOR THE PRODUCTION OF SEEDS "ATAMEKEN-AGRO KORNEEVKA" LLP

The plant for the production of seeds "Atameken-Agro Korneevka" belongs to the farm of the same name, founded in 2004. The main specialization of Atameken-Agro Korneevka LLP is crop production. As of 2022, the area of the sowing wedge was 20,5 thousand hectares.

The plant-growing direction is represented by the production of cereals (wheat of hard and soft varieties, barley), legumes (red lentils), oilseeds (oilseed flax, sunflower).

Atameken-Agro Korneevka LLP has the status of a seed farm. As part of the strategic development of the seed-growing direction of the agricultural holding, a modern high-tech plant for the production of seeds was built on the basis of the farm in 2020.





Over the past two years, durum wheat varieties of European selection imported from Italy have been under state testing: KENOBI, CABOTO, TEODORICO.

In 2022, the TIREX durum wheat variety was added to the tests.

For today, two varieties are available for free sale: hard spring wheat of the Pearl of Siberia variety and soft spring wheat "Boevchanka". High-quality seed material of both crops is produced at our plant using the latest technologies, gentle fractionation treatment and isolation of so-called strong seeds. The equipment of the plant for the production of seeds "Atameken-Agro Korneevka" was purchased in Ukraine from the industry leader LLC "Fadeev Agro".

Wheat seeds produced at the Atameken-Agro Korneevka plant yield a crop with high quality indicators: vitreous, protein, gluten, grain nature.



## **FADEEV SEED PRODUCTION TECHNOLOGY**

High-quality seeds are a necessary basis for high crop yields without compromising soil fertility and reducing the chemical load on it. The gentle fractional technology of seed preparation, developed by Candidate of Technical Sciences, Associate Professor L.V. Fadeev, fully copes with this task. Non-traumatic equipment is based on aircraft technology.

The essence of the technology is a sparing attitude to the seed material, the allocation of strong seeds (made, heavier at the same size, without micro— and macro-injuries).

The first stage of isolation of strong seeds with high yield properties is their size calibration. Then the calibrated seeds arrive at the pneumatic vibrating table, where of the three variables (size, shape and density), only one variable remains- density, and it is here that exceptionally heavy seeds are sorted, guaranteeing germination.

Fadeev's non-traumatic fractionation technology allows for a good yield of strong seeds that far exceed the existing standards in the market of Kazakhstan in terms of seed qualities.



# NON-TRAUMATIC FACTIONAL TECHNOLOGY OF PREPARATION OF STRONG SEEDS IS BASED ON THE FOLLOWING PRINCIPLES:



## 01

Minimization of macro- and microtraumation of seeds at all stages of processing (gentle technology)



## 02

Calibration of seeds takes into account their fulfillment, i.e. seeds are calibrated by volume



## 03

Separation of seeds by density is carried out exclusively by fractionation

It is this technology of extracting strong seeds from the seed material that gives a significant increase in yield.

# STRONG SEEDS

The main purpose of L.V.Fadeev's gentle fractination method is the production of so-called strong seeds. What exactly is behind this term and what qualities do strong seeds have?

From a biological point of view, strong seeds are the part of seeds that is formed first on the mother plant, as a result of which assimilates are deposited in them first of all. This part of the seeds is considered the most complete both in composition and quantity. Strong seeds are formed and ripen as well first, they are easily threshed. In the historical perspective, strong seeds are exactly those that have ensured the preservation of the plant population for millions of years.



## Examples of strong seeds:

In spikelet wheat, they are usually located in the middle of the ear, where its flowering begins  
Corn has seeds in the middle of the cob (the heaviest and most completed)  
Sunflower has seeds from the periphery of the basket (primarily formed)



## **STRONG SEEDS MEET ALL OF THE FOLLOWING CRITERIA:**

1. Seeds without macro- and microtrauma: not injured during selection, whole.
2. Large seeds.
3. The seeds are calibrated by performance: an extremely important feature, essentially reflecting the amount of nutrients in the seed.
4. Heavy seeds: differ not only in seed density, but also in productivity during replanting.
5. Seeds are treated with drugs and inoculants: in addition to traditional remedies, Fadeev's technology also includes treatment with microbial or mycorrhizal preparations.
6. The seeds are designed for precision seeding drills.
7. Homogeneous seeds are able to form uniform shoots.





## Pearl of Siberia

### Crop:

Spring durum wheat

### Reproduction: 1

**Type of variety:** Medium-ripened variety

**Yield:** 33,6 q/ha

**State register:** he variety has been included to the state register since 2006 for the 9th and 10th regions.

### Features of development:

The bush is erect. The stem is strong, of medium thickness, the straw is hollow. The leaf is intermediate, the wax coating is strongly pronounced, not pubescent. The ear is cylindrical, white color, length 6-8 cm, medium density. The spikelet scales are 10-13 mm oval, the nervation is medium, the tooth is moderately curved, of medium length, the shoulder is raised, narrow, the keel is pronounced strongly.

### Sowing dates:

May 15-16

### Pedigree of the variety:

the Pearl of Siberia variety was obtained by the method of intersort hybridization Antey /Leukurum 6959 /3/Almaz // Omsk ruby /4/Svetlana.

### Vegetation period:

75-95 days

### Seeding rate:

3-3,5 million/piece

### Weight of 1000 grains:

39-45 g

### Disease resistance:

In the field, dusty smut was weakly affected, septoria - medium. It is susceptible to hard smut, brown rust, powdery mildew.

### Resistance to climatic conditions:

Medium drought resistant

### Protection Features:

Standard

### Direction of use:

Food industry

# Boevchanka

## Crop name:

Soft spring wheat

## Reproduction: 1

**Type of variety:** Medium early

**Yield:** 53 quintal per hectare

**State Register:** Included in the state Register for the Ural (9) and West Siberian (10) regions. It is recommended for cultivation in the Republic of Bashkortostan, the Kurgan region and the Southern forest-steppe zone of the Omsk region, as well as in Kazakhstan.

## Features of development:

The variety belongs to strong wheat, is able to form grain with gluten over 40%, has high baking qualities. It is an insurance grade for late sowing.

## Sowing dates:

May 28-June 5

## Pedigree of the variety:

(Saratov 60 x Lutescens 150/86-10) x (Saratov 62xBastian).

## Seasonality:

Spring

## Growing season:

73-85 days

## Seeding rate:

3-4/million/piece for the regions of Northern Kazakhstan

## Weight of 1000 grains:

30-40 g

## Disease resistance:

The variety is moderately resistant to powdery mildew, brown rust and dusty smut in the field. Resistance to lodging is high (5.0 points against 4.3 for the standard).

## Resistance to climatic conditions:

In terms of resistance to drought, the new variety is at the level of standards.

## Protection Features:

Standard

## Direction of use:

Food industry





## **THE PLANT FOR THE PRODUCTION OF SEEDS OF LLP "ATAMEKEN-AGRO TIMIRYAZEVO"**

LLP "Atameken-Agro Timiryazevo" was founded in 2004 and includes such areas of activity as crop production, breeding of beef breeds of cattle and seed production.

Crop production is a priority activity of the farm. Atameken-Agro Timiryazevo LLP is engaged in the cultivation of cereals, legumes and oilseeds, including soft wheat, spring barley, oats, peas, green and red lentils, flax, sunflower. At the time of mid-2022, the area of sowing is more than 34 thousand hectares, and in 2021 the gross harvest of the farm exceeded 33 thousand tons of agricultural products.

Having outstanding results in the quality of the harvest, Atameken-Agro Timiryazevo LLP launched a plant for the production of high-quality seeds in 2008. For today, the plant has been certified for the following crops: wheat, flax.

Atameken-Agro Timiryazevo LLP offers seven varieties of grain and leguminous crops for sale in 2022. Each crop has been thoroughly tested for quality and compliance with the requirements of the state register.

# TECHNOLOGY OF SEED PRODUCTION "ATAMEKEN-AGRO TIMIRYAZEVO"

The plant for the production of seeds of Atameken-Agro Timiryazevo LLP was founded in 2008. The plant produces elite varieties of cereals and oilseeds, consistently propagating the original seed material. Thanks to a well-thought-out selection system, high varietal purity, sowing qualities and productive properties are preserved.

Unlike the cultivation of commercial grain, seed production is closely related to breeding processes and variety testing, therefore modern seed plants use exclusively innovative technologies and professional equipment. Thus, the Austrian equipment of the CIMBRIA brand is installed at the plant of Atameken-Agro Timiryazevo LLP.

Lots of high-quality seed material produced at the Atameken-Agro Timiryazevo plant have certificates of conformity, and also pass the appropriate certification. Our products are guaranteed to pass strict quality and purity control, which gives a pronounced increase in yield among customers.

The Atameken-Agro Timiryazevo plant produces seeds with guaranteed high quality indicators:

purity of at least

**+99,9%**

germination of at least

**+95%**



## Uralosibirskaya 2

### Name of the crop:

Soft wheat

**Reproduction:** Elite / 1 reproduction

**Type of variety:** Medium Late

**Yield:** Potential yield over 60 quintal per hectare

**State register:** The variety is included in the state register in the 13th region (North Kazakhstan region).

### Features of development:

The variety is medium-late. The study of the Uralosibirskaya variety in the Laboratory of Plant Physiology and Biochemistry of the SibNIISC Wildebeest showed that the variety is characterized by increased resistance to adverse abiotic environmental factors, in particular to drought. At the same time, the drought resistance of the new variety is significantly higher than that of the Omsk 35 standard. The Uralosibirskaya variety in the field is significantly below the standard affected by powdery mildew (by 2-3 points). The variety is moderately resistant to brown and stem rust. Resistance to lodging is high.

### Seasonality:

Spring

### Growing season:

78-100 days

### Seeding rate:

3-4mln / ha

### Weight of 1000 grains:

38-48 g

### Disease resistance:

Has high resistance to brown and stem rust.

### Use:

Bakery (strong wheat)



## Omsk 36

### **Name of the crop:**

Soft wheat

**Reproduction:** Elite / 1 reproduction

**Type of variety:** Medium early

**Yield:** Over 65

**State register:** 1, 10, 13 regions

### **Features of development:**

The variety is medium-early. Drought resistance is high. The variety on an infectious background is practically resistant to dusty smut (0.16% vs. 31.1% in Saratov 29), slightly below the standard is affected by powdery mildew (by 1.0 point), the hard smut variety is affected at the standard level. The variety delays the development of brown rust. Resistance to lodging at the level of the Asiev Memory standard.

### **Seasonality:**

Spring

### **Growing season:**

75-86 days

### **Seeding rate:**

3-4 million / ha

### **Weight of 1000 grains:**

40-50 g

### **Disease resistance:**

Resistant to dust smut and leaf pathogens.

### **Direction of use:**

Bakery (strong wheat)





## Shortandinskaya 2012

### Name of the crop:

Soft wheat

**Reproduction:** Elite / 1 reproduction

**Type of variety:** Medium early

**State register:** 1, 10, 12, 13 regions

### Features of development:

A variety of the medium-early type of maturation. The variety is characterized by a slow development of the germination-earring period (40-48 days), rapid filling and maturation in the second half of the growing season (44-52 days). The variety is resistant to drought in all phases of development, which ensures high productivity.

### Seasonality:

Spring

### Growing season:

84-90 days

### Seeding rate:

3-4 million / ha

### Weight of 1000 grains:

3-44 g

### Disease resistance:

Resistant to dust smut and leaf pathogens.

### Direction of use:

Bakery (strong wheat)

## Aina

### Name of the crop:

Soft wheat

**Reproduction:** Elite / 1 reproduction

**Type of variety:** Medium-ripe

**State register:** 1, 10, 13 regions

### Features of development:

The variety belongs to the middle-ripening group. The average yield over the years of competitive variety testing was 36.4 quintal per hectare. The content of protein in the grain is 16.7%, crude gluten is 31.4%, the total baking score is 4.9 points. The variety is highly drought-resistant, able to withstand prolonged absence of precipitation and high temperatures, resistant to lodging.

### Growing season:

80-85 days

### Weight of 1000 grains:

37-44 g

### Disease resistance:

Practically resistant to brown leaf rust

### Direction of use:

Bakery (strong wheat)





## Continental

### **Name of the crop:**

Soft wheat

**Reproduction:** Elite / 1 reproduction

**Type of variety:** Medium early

**Yield:** Potential yield over 80 quintal per hectare

**State register:** 1, 10, 13 regions

### **Seasonality:**

Spring

### **Features of development:**

The variety belongs to the middle early group. High lodging resistance and high crude protein content.

### **Growing season:**

85-90 days

### **Disease resistance:**

Has high resistance to brown rust, septoria and powdery mildew

## Northern

### Name of the culture:

Flax

**Reproduction:** Elite / 1 reproduction

**Type of variety:** Early ripening

**Yield:** 12-25 quintal per hectare

**State register:** 13 region

### Features of development:

Early ripening variety, seed oil content — 47.0–48.0%, iodine number of oil — 183 units. It is suitable for mechanized cultivation. Designed to produce high-quality technical oil and short fiber. It has a high resistance to shedding and lodging. Due to its early maturity and high plasticity, it can be cultivated from the steppe zone to the subtaiga zone. Early maturity is combined in it with good productivity, high oil content of seeds.

### Growing season:

80-104 days

### Seeding rate:

5-7 million / ha

### Weight of 1000 grains:

7-9 g

### Disease resistance:

Highly resistant to fusarium





## Liryna

### Name of the culture:

Flax

**Reproduction:** 1 reproduction

**Type of variety:** Early ripening

**Yield:** up to 26 hundredweight per hectare

**State register:** 1 region

### Features of development:

Lirina is characterized by a stable high yield. A large number of seed pods ensures good and stable yields even with a lower density of standing plants compared to the usual one. Thanks to uniform maturation and good resistance to lodging, trouble-free cleaning is guaranteed. The variety has a high oil content.

### Seasonality:

Spring

### Growing season:

81-86 days

### Seeding rate:

5-6 million / ha

### Weight of 1000 grains:

5-7 g









## OUR CONTACTS

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North KZ, Timiryazevsky district

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