TRADA

PIC®
Danish Lines

Gene Transfer Center

Brand-new level supplies of high- and precise-index elite genes directly from Russia

Otrada is the exclusive producer and distributor of PIC Danish Lines in Russia, Kazakhstan, Armenia and Georgia

Mission – provide Russian pork producers with access to the highest genetic potential through supply of tested boars' semen directly from Russia.

OVER 15 YEARS IN THE MARKET

2022 – start of high-index semen sales directly from Russia!

Construction of the first PIC Danish Lines' Gene Transfer Center in Russia is the implementation of global pig markets' advanced approach to the elite genes distribution.

- High-index boars PIC Danish Lines
- Up-to-date laboratory
- Superior level of biosecurity
- Advantageous location near M4 highway

250
elite boars*

350 000
semen doses per year

* The project's second phase envisages an increase up to 500 heads and 700 000 semen doses per year

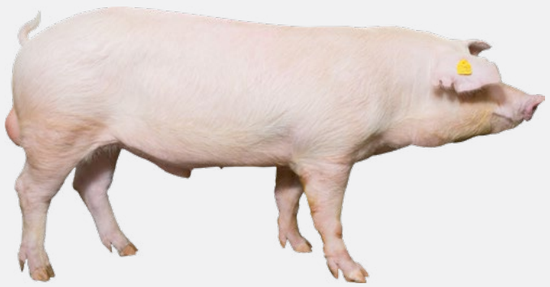
Otrada’s Gene Transfer Center

Stanovoe village, Lipetsk region, Russia

Laboratory with innovative equipment

- Full automation: collection, filling and analysis for consistent quality of the doses and human factor minimization
- Traceability and rigorous European standards
- Accurate assessment of concentration, motility, morphology, and fertility
- First time in Russia: on-site analysis for bacteria level in semen
- Doses for intrauterine and conventional insemination
- Delivery by air or by road
- Reliable temperature monitoring
- High-quality extender
- Detailed reports on semen quality

Dam Lines



Otrada Landrace

Dam line semen

GGP*	**130+**
GP**	**120+**

Otrada Yorkshire

Dam line semen

GGP*	**130+**
GP**	**120+**

Terminal Line

Otrada Duroc mix***

Terminal boar semen

Profit Max	**130+**
Profit+	**115–129**
AI standard	**100–114**

We offer supplies of semen from high index boars with proven efficiency.

* GGP – Semen for production of GP gilts

** GP – Semen for production LY gilts

*** Indexes at the off test. Indexes at delivery are ProfitMax 113+, Profit+ 98–112, AI standard 85–97

Index value reflects the boars' genetic potential

High precision of the indexes due to genomic selection, phenotyping, and individual testing.

Individual testing of feeding efficiency (feed intake, weighing, intramuscular fat, loin depth and backfat scanning), leg score.

GNX Program based on the data collection from commercial pig farms for more precise breeding decisions.

Comparison of semen categories

	Profit+ vs AI standart	ProfitMax vs Profit+	ProfitMax vs AI standart
Live daily gain, g	**+9.7**	**+12.0**	**+21.7**
Feed conversion, kg/kg	**−0.016**	**−0.020**	**−0.036**
Loin depth, mm	**+0.62**	**+0.78**	**+1.40**
Wean to slaughter mortality, %	**−0.40**	**−0.50**	**−0.90**

Genetic lag entails less beneficial cost of meat production

Annual decline of boar potential

↓18 index points

↑0.001 kg/kg feed conversion per index point

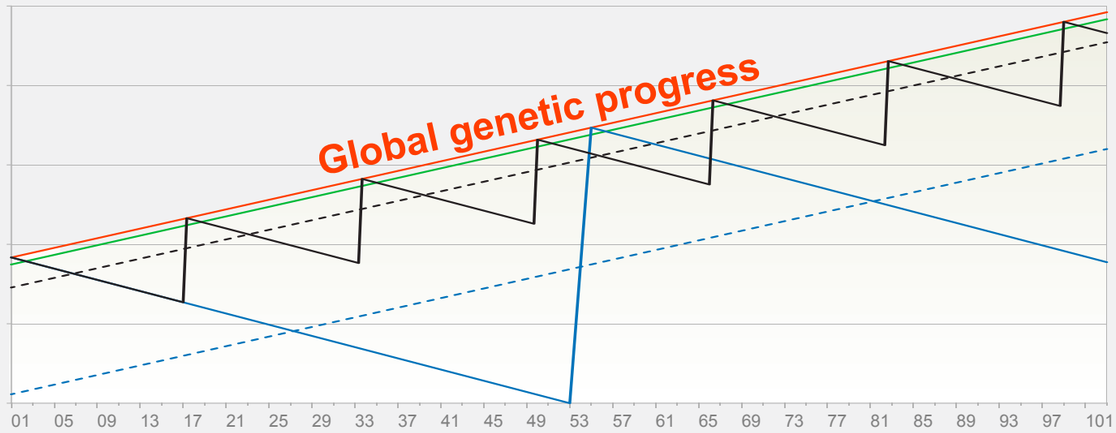
↑0.009 kg/kg average feed conversion

Example of lost profit due to feed conversion per 80 000 sows

80 000 sows × **32** hogs sold per sow per year × **130** kg × **0.009** kg/kg × **20** RUB/kg

= **60 000 000** RUB/year

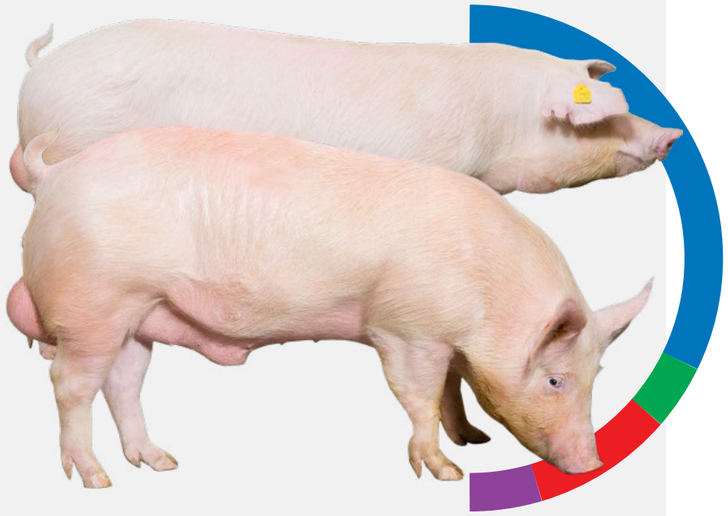
Semen supplies represent the most efficient way of maintaining the genetic potential



Benefits of semen supplies

	Own boar stud	Semen supplies
Genetic potential	< Elite farms	= Elite farms
GGP genetic diversity	No	Yes
ASF, PRRS risk	Yes	No
Need for arranging a boar stud	Yes	No
Need for quarantine	Yes	No
Need for a laboratory	Yes	No
Criticality of high-qualified staff	Yes	No

Dam lines



Breeding goals

REPRODUCTION
- Total born
- Stillborn
- Semen quality (motility/morphology)
- Number of teats

ROBUSTNESS
- Pre-wean survival
- Birth weight
- Leg score
- Umbilical hernia
- Scrotal hernia
- Cryptorchids

EFFECTIVE GROWTH
- Growth
- Feed intake

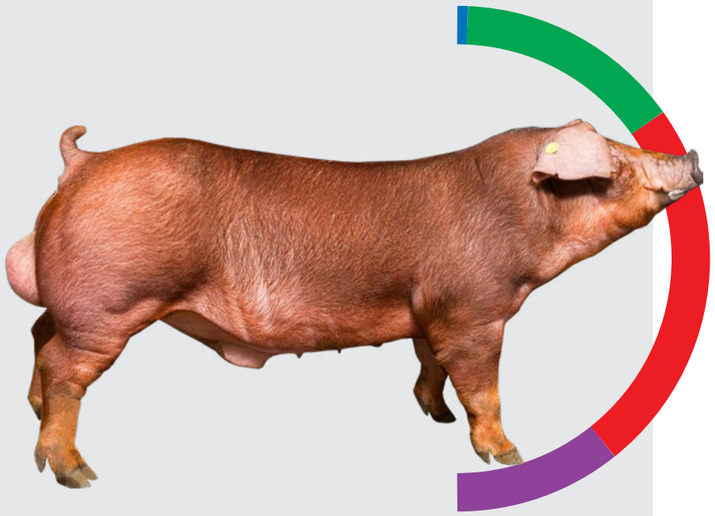
CARCASS AND MEAT CHARACTERISTICS
- Fat depth
- Loin depth

PIC Danish Lines breeding program

Several improvements vs. other Danish gene producers

- Piglet survival rate and robustness
- Piglet uniformity at birth
- Mother abilities and number of teats
- Sow robustness
- Weight gain and feed conversion up to 130 kg
- Boar semen quality
- Meat quality

Terminal line



Breeding goals

REPRODUCTION
- Semen quality (motility/morphology)

ROBUSTNESS
- Wean to finish survival
- Leg score
- Umbilical hernia
- Scrotal hernia
- Cryptorchids

EFFECTIVE GROWTH
- Growth
- Feed intake

CARCASS AND MEAT CHARACTERISTICS
- Fat depth
- Loin depth
- Primal yield
- Tenderness
- pHu loin
- IMF

Terminal line superior potential

Results of Otrada Duroc boars' testing

Parameter	ТОП 10 %
Index	148
Weight at 140–150 days, kg	130
Live daily gain, g	905
Daily gain (35–130 kg), g	1 370
Feed conversion (35–130 kg), kg/kg	1.78
Loin depth, mm	76.9
Back fat depth, mm	10.7

OTRADA

Otrada's Gene Transfer Center is a fast and efficient way to receive elite genes directly from Russia

Contact us if you have any questions on semen supplies

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