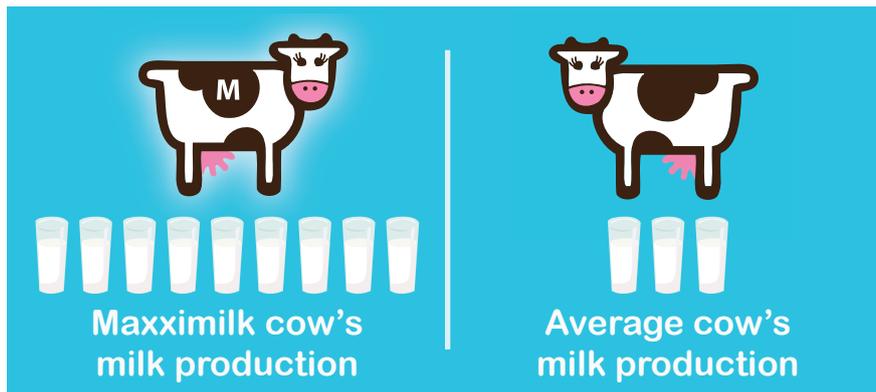




Maxximilk's ready-for-transfer-pedigree-embryos enable dairy farmers to dramatically boost milk yields and profitability...in record time



### [Raise a new herd of champion dairy cows in only 32 months](#)

Maxximilk produces highest quality in-vitro-ready-for-transfer-pedigree-embryos. These embryos enable dairy farmers to bypass decades-long breeding programs and rapidly acquire a new herd of champion milk-producing cows. All genetic materials are derived only from superior bulls and cows with average annual milk yields of at least 11.5 tonnes.

### [The superior genetics of Maxximilk's cows and bulls](#)

**Cows:** In 2008, Israel's estimated national herd of 100,000 Holstein-Friesians produced an average annual yield per cow of 11,950 Kg of milk, 374 kg of protein and 413 kg of fat (That same year, the best performing cow yielded over 18,400 Kg of milk!).

This extraordinarily high yield is not simply "milk". It is rich, top-quality milk, with remarkably low bacterial and somatic cell counts. Genetic advances have also resulted in smaller calves for easier calving, thereby reducing veterinary costs and fertility problems.

**Bulls:** Bulls are selected by a panel of breeding experts for their ability to transmit outstanding genetic characteristics that give highest yields of milk and milk components; excellent fertility; longevity; and for cows with exceptionally healthy udder characteristics.

### [Embryo transfer accelerates genetic progress](#)

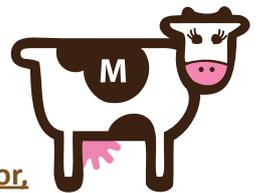
Embryo transfer is an excellent tool for rapidly improving genetics, increasing milk production and simultaneously improving disease control. Unlike artificial insemination, which involves the use of sires only, embryo transfer radically accelerates the rate of genetic progress. This is because when it comes to **maximising genetic excellence**, genetic materials taken from a superior female **as well as** a superior sire are indispensable.

## Maxximilk Products



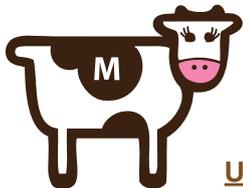
### Elite sexed female embryos

Embryos produced from oocytes collected from elite females; the top 0.3% of Israel's highest Holstein milking cows fertilized with sexed semen from proven Holstein bulls. These embryos have the potential to develop into cows that yield approximately some 21% more milk than Israel's annual average of 11,950kg.



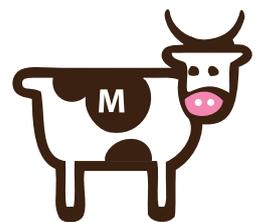
### Genetically superior, sexed, female embryos

Embryos produced from oocytes that are collected from superior females; the top 20% of Israel's highest Holstein milking cows fertilized with sexed semen from proven Holstein bulls. These embryos have the potential to develop into cows that yield some 9% more milk than Israel's annual average of 11,950kg.



### Unsexed high-potential milk-production embryos

Embryos produced from assorted oocytes collected from Israel's average Holstein milking herd fertilized with semen from proven Holstein bulls. These embryos have the potential to develop into cows that produce a similar annual average milk yield to that of Israel's dairy herd (11,950kg).



### Beef cattle embryos

Embryos produced from oocytes and semen collected from quality purebred beef cattle. These embryo consignments can be sexed or unsexed.

*Maxximilk regularly achieves a 90% success rate for sexed female embryos.*



## **Maxximilk Embryologists**

With extensive experience in the field of domestic animals, Maxximilk's embryologists combine cutting edge cryobiology and reproduction techniques. They specialize in...

- The production of highest quality in-vitro-ready-for-transfer-pedigree embryos
- In-vitro fertilization
- Cutting-edge cryopreservation (freezing) methods
- Embryo sexing

## **State-of-the-art IVF laboratory**

The Company meets all international regulatory and quality control requirements for in vitro embryo production. Ready-for-transfer-embryos are cultured and cryopreserved in disease free environments, ready for shipping at a moment's notice.

## **Bio-technologies**

### **In Vitro Fertilization**

Oocytes (eggs) from top-performance donor cows are co-cultured in vitro (in the laboratory) for fertilization, with semen from pedigree bulls. Embryos are kept in a culture medium to develop further. During this process, each and every embryo is evaluated for its potential to achieve a pregnancy. Only embryos that exhibit excellent morphological characteristics are selected for cryopreservation.

### **Embryo-Sexing**

The use of sexed embryos is a particularly effective way to increase herd size without spending money for replacement heifers and without hosting heifers from other farms (with all the disease risks involved.)

### **Cryopresevation**

Maxximilk's nitrogen slush, cryopreservation technology has put the Company in pole position. Field-tests have shown a fourfold pregnancy success-rate over traditional cryopreservation methods (40% for Maxximilk as opposed to 10% for traditional cryopreservation methods). Produced and cryopreserved under the strictest international quality control standards, Maxximilk embryos can be stored for unlimited periods.



## The Advantages of Maxximilk embryos

- High milk-yield potential (More milk from fewer cows).
- Sperm and eggs collected from top-performance dairy cows and bulls.
- Only embryos with excellent morphological criteria are selected for transfer.
- Gender-selection of embryos enables radically improved herd management.
- State-of-the-art cryopreservation procedures increase pregnancy in recipient cows to an average rate of 40% (as opposed to 10% for traditional methods).
- Embryos are produced under the strictest international standards.
- Enhanced cattle health resulting from increased disease control.
- Elimination of disease-risks involved in hosting heifers from other farms.
- Individual ready-for-transfer-embryos are stored in liquid nitrogen at a temperature of minus 196°C. Embryos can be stored for unlimited periods and are ready for shipping at a moment's notice.
- Whilst prohibitive transportation expenses for live animals are eliminated, the cost of shipping an entire herd in the form of cryopreserved embryos is less than the price of a regular airfare!

## Comprehensive Support Services

Clearly, innumerable parameters contribute to the realisation of outstanding milk yields. Excellent genetics are indispensable but they account for only one aspect of successful dairy farming. Maxximilk's team can provide professional support services, whilst steering large dairy enterprises towards radically increased milk production. The Company is fortunate in having outstanding agricultural engineers with hands-on, international experience in dairy herd management – experts who can help you achieve the highest milk yields.

Maxximilk has the experience and the ability to assist you with any program in all of its aspects. After studying your project, the Company will be delighted to make detailed proposals that fulfil all your requirements.

## For more information please contact us:

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