

# Agricultural machinery in Russia. Tractors.

# What is agriculture?

- <u>Agriculture</u> is the science or art of cultivating the soil, growing and harvesting crops, and raising livestock.
- The art of making land more productive is practiced throughout the world – in some areas by methods not far removed from the conditions of several thousands of years ago and in other areas with the aid of science and mechanization, as a highly commercial type of endeavor.
- Agriculture still drafts into its service more of the world's aggregate manpower than all other occupations combined.

## What is agricultural machinery?



Agricultural machinery is machinery used in the operation of an agricultural area or farm.

## What is a tractor?

Tractor is a high-power, low-speed traction vehicle and power unit mechanically similar to an automobile or truck but designed for use off the road.



- The two main types of tractors are wheeled, which is the earliest form, and continuous track.
- Tractors are used in agriculture, construction, road building, etc., in the form of bulldozers, scrapers, and diggers.
- A notable feature of tractors in many applications is the power-takeoff accessory,



## Facts and figures

- 1855 Andrei Terentyev artisans and Moses Creek created the first Russian threshing machine.
- 1888 Fyodor Blinov mechanic built the world's first model of crawler tractor.
- 1893 Yakov Mamin invented the plow with two plowshares.
- 1910 Yakov Mamin created tractor "Dwarf", later known as the "Russian tractor".
- In 1917 there were 165 tractors in Russia.
- 1921 SNK (Soviet government) decree "On agricultural engineering".

At this time, the release of tractors engaged in Kolomna and Kharkiv Locomotive Factory, Obukhov plant. Most mass production of tractors was organized at the "Red Putilovets" (tractor "Fordson Putilovets").



#### Facts and figures

- \* 1926 started producing tractor cultivators for continuous tillage.
- 1928 started production of tractor plows.
- In 1928, the country produced 1,300 tractors.
- 1930 commissioned in 1930 Stalingrad Tractor Factory design capacity of 144 tractors a day. Since that time, the Soviet Union began the mass production of tractors.

## Stalinets S-65 (1937-1941)



#### Facts and figures

- 1931 was built Kharkov Tractor Factory.
- 1932 started production of tractor potato harvesters.
- 1933 was built Chelyabinsk Tractor Plant.
- 1937 USSR on the annual production of combine harvesters went to 1st place in

the world - 44 thous thousand in the U.S.

## Tractor "Universal" (1934-1940, 1944-1955)



At "Communard" started production of the first Soviet har



By the beginning of the Great Patriotic War, the Soviet Union occupied the first place in the world for the production of crawler tractors.



- During the war, many tractor factories were destroyed, some of them have relocated to the east of the country and produced for the front.
- 1944 resumed production of tractors.

After the war, the construction of new

enterpri



#### Facts and figures

- 1946 started production of the first tractor with a closed cabin S-80.
- 1947 started production of the first self-propelled combine harvester S-4.
- 1948 Minsk Tractor Works started production of the first Soviet skidder KT-12.
- 1956 started production of the first industrial tractor S-100.
- 1957 started production of the first Soviet high-power industrial tractor diesel-electric drive DET-250.
- 1960 USSR won first place in the world to produce tractors.

## Tractor DET-250



# DT-54 (1949-1979)



#### Facts and figures

- 1975 came the first Soviet tractor with front cabin-industrial tractor-bulldozer T-330.
- 1983 launched Europe's largest tractor, designed to work as a crawler dozer, T-800
- 1991 disintegration of the USSR, was part of factories abroad.
- 2001 state-owned company established Rosagroleasing for the program of state support for agricultural producers and support leasing program.
- 2003 was founded Concern Tractor plants, uniting the main Russian producers of tractors.

#### **Tractor T-800**



# Kirovets K-744



## Road bulldozer Kirovets K-702



#### Types of tractors:

- crawler tractor skidding choker,
- forest fire crawler tractors
- mowers
- forwarders
- loaders and forklifts based tractors
- truck tractors

#### Types of tractors:

- wheeled tractors
- crawler tractors
- crawler skidders
- transport tractors
- wheeled tractor self-propelled chassis
- wheeled cotton tractors
- bulldozers

# Tractor VT-200



### Harvester Don-1500



# DT-75



## MTZ-80



## Firefighting vehicle Onegec 310



### Give a name to the tractor:





**T-800** 

**DET-250** 

MTZ-80





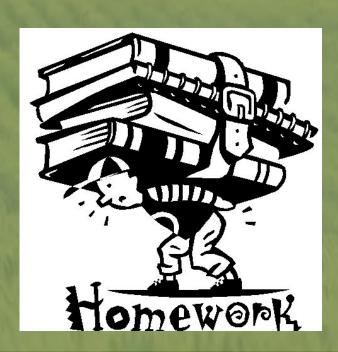
K-702

## Answer the questions:

- What is agriculture?
- 2. What machinery do we call agricultural?
- Which are two main types of tractors?
- Since what time did the Soviet Union begin the mass production of tractors?
- 5. When did Russia start production of the first tractor with a closed cabin

#### Home task:

Describe the main technical characteristics of any tractor.



#### Resources:

- https://en.wikipedia.org/
- http://www.britannica.com/tech nology/tractor-vehicle
- http://go.mail.ru/search\_images

# Thank you for your work!

