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1. In April 1953 the "Typova kota" tank unit, a tank company performing tests with a new type of tank, underwent a refresher course at Milovice. The company was subordinate to an unidentified tank brigade. The new medium tank which it tested is alleged to be a cross between the Soviet T-34 and [redacted]. The features of the Soviet tank are predominant. About ten of the new tanks were tested.

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2. The tank was tested in the following ways:

- a. ramming through brick walls of normal buildings without damage.
- b. ramming the T-34 tank. Frontal ramming left marks on the T-34's armor, while the new tank was undamaged.
- c. using the T-34 tank as a target. Frontal fire failed to damage the T-34. Fire directed at the flanks of the T-34 pierced the armor, however.
- d. Firing on infantry trenches which were reinforced by a wall made of six sandbags at a range of 1,500 meters. Two of the five rounds fired using anti-personnel type ammunition penetrated the sandbags.

3. The following are the main features and technical data of the new tank:

Maximum cruising speed - 70 kilometers in the field, without slopes and obstacles.

Maximum range - 300 kilometers without refueling.

Engine - Tank has two engines. Main engine is of a Diesel type which runs on naphtha. Located in the rear of the tank. 250 horsepower. Air cooling system.

Track - Auxiliary engine is a normal gasoline engine, used mainly for starting the tank and as emergency driving power. Maximum period of use: 15 minutes.

- Fifty centimeters wide, suspended on two cogwheels and three supporting (leading) wheels. Two driving cogwheels are relatively easily removable

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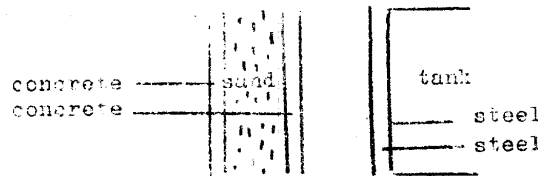
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- from their conical half-shafts. They are secured only by collapsible pegs. Removal of one wheel takes 15 minutes.
- Gun
- Caliber - 90 mm
  - Maximum range - 10 kilometers
  - Automatic loading of five rounds
  - Oil bath cooling.
  - 360 degrees turning system, operated pneumatically
  - Hydraulic (oil) recoil brakes.
  - Hydraulic stabilizer, enabling firing while on move.
- Ammunition
- 250 rounds, stored in front of the main engine. Unknown portion is the proximity fuse ammunition.
- Machine Guns
- Twin-barreled machine guns, located in the frontal part of the tank. Machine guns can be fired individually as well.
- Armor plating
- The width of the armor plating which protects the gun is 6 centimeters.
- Fuel tanks
- Protected by double steel walls and by two walls of concrete. Space between the concrete walls is filled with sand.



- Communications
- Tank transmitter has a range of 20 kilometers. Moreover, the tank is equipped with a special signalling device, giving a one-tone buzz up to 50 kilometers. This serves exclusively to indicate the tank's position and is not used for signalling. The tank commander can keep in touch with all crew members by the telephone.
- Radar
- Placed close to the transmitter and operated by the radio man. Range is ten kilometers.
- Turret loop-hole
- Three centimeters long and five millimeters wide. Combination of mirrors and lenses offers the possibility of round-the-clock observation plus sky observation. Special filter prevents the decomposition of light (sic).
- Cover paint
- Grey-green, uniform color, no camouflage patterns.
- Markings
- No external markings. Factory mark on the engine (letters CKD in a circle)
- Maneuverability
- The tank can turn **within its own tracks**
- Crew
- Five men with the following assignments:
    - Tank commander - 1
    - Gunner - 2
    - Machine gunner - 3
    - Radio man - 4
    - Driver - 5
- The tank commander is connected by a periscope system to the gunner's loop-hole, so that he sees the target and gives fire command simultaneously.
- Producing plant
- It is believed that the tank is made by the CKD Prague (Sokolovo Works) and CKD Stany plants.

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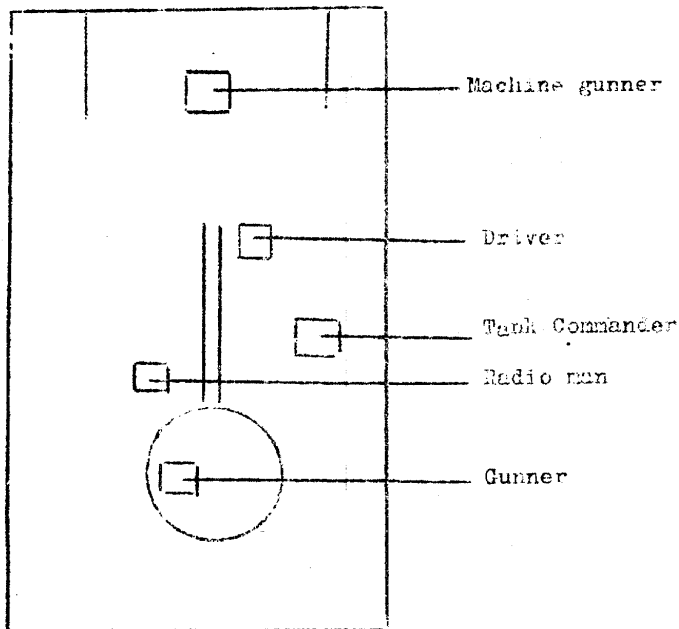
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TANK CREW SCHEME



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