

# Tank Reference

## Eastern Bloc

### Modern Era

#### T-14

|                              |  |
|------------------------------|--|
| <b>Description</b>           |  |
| <b>Primary Armament(s)</b>   | 125mm smoothbore 2A82-1M gun   |
| <b>Secondary Armament(s)</b> | 12.7mm Kord machine gun, 7.62mm PKTM machine gun   |
| <b>Armor</b>                 | Malachit ERA (Explosive Reactive Armor), composite armor, and modular armor  |
| <b>Countermeasures</b>       | Afganit active protection system, smoke grenade launchers, laser warning system  |
| <b>Special Features</b>      | Unmanned turret, integrated command and control systems  |
| <b>Application</b>           | Next-generation MBT designed for modern conflict scenarios; significant electronic warfare, automation, and protection capabilities. |

#### T-72B3 (obr. 2012g.)

|                              |  |
|------------------------------|--|
| <b>Description</b>           | Modernization of the T-72B, introduced in 2012.  |
| <b>Primary Armament(s)</b>   | 125mm 2A46M-5 smoothbore gun   |
| <b>Secondary Armament(s)</b> | 12.7mm NSV machine gun, 7.62mm PKT machine gun   |
| <b>Armor</b>                 | Composite armor, Relikt ERA  |
| <b>Countermeasures</b>       | Smoke grenade launchers  |
| <b>Special Features</b>      | Modern fire control system, improved engine, and overall systems upgrade.  |
| <b>Application</b>           | Extensively modernized version to extend the operational life and capabilities of the T-72 series in modern conflicts. |

#### T-72B3 (obr. 2016g.)

|                              |  |
|------------------------------|--|
| <b>Description</b>           | Further modernization of the T-72B3, introduced in 2016.   |
| <b>Primary Armament(s)</b>   | 125mm 2A46M-5 smoothbore gun   |
| <b>Secondary Armament(s)</b> | 12.7mm NSV machine gun, 7.62mm PKT machine gun   |
| <b>Armor</b>                 | Composite armor, Relikt ERA  |
| <b>Countermeasures</b>       | Smoke grenade launchers  |
| <b>Special Features</b>      | Improved sights, fire control systems, and additional combat enhancements.                           |
| <b>Application</b>           | A more refined version of the T-72B3 with advanced systems to meet contemporary combat requirements. |

#### T-90SA (obr. 2016g.)

|                    |   |
|--------------------|---|
| <b>Description</b> | Updated export version of the T-90 from 2016. |
|--------------------|---|

|                              |  |
|------------------------------|--|
| <b>Primary Armament(s)</b>   | 125mm 2A46M-5 smoothbore gun   |
| <b>Secondary Armament(s)</b> | 12.7mm NSV machine gun, 7.62mm PKT machine gun                           |
| <b>Armor</b>                 | Composite armor, Relikt ERA  |
| <b>Countermeasures</b>       | Smoke grenade launchers, Shtora-1 defensive aid suite                    |
| <b>Special Features</b>      | Enhanced systems tailored to modern export market needs.                 |
| <b>Application</b>           | Modern export variant to meet the requirements of international clients. |

T-90SM (obyekt 188SM)

|                              |  |
|------------------------------|--|
| <b>Description</b>           | Highly advanced version of the T-90.   |
| <b>Primary Armament(s)</b>   | 125mm 2A82-1M smoothbore gun   |
| <b>Secondary Armament(s)</b> | 12.7mm Kord machine gun, 7.62mm PKTM machine gun                               |
| <b>Armor</b>                 | Composite armor, Relikt ERA  |
| <b>Countermeasures</b>       | Smoke grenade launchers, Shtora-1 defensive aid suite                          |
| <b>Special Features</b>      | Modern fire control, enhanced protection, and mobility systems.                |
| <b>Application</b>           | Further evolution of the T-90 series with cutting-edge technology and systems. |

Post Cold War

2S25 Sprut-SD

|                              |  |
|------------------------------|--|
| <b>Description</b>           | Amphibious light tank or self-propelled anti-tank gun developed by Russia.                                       |
| <b>Primary Armament(s)</b>   | 125mm 2A75 smoothbore gun  |
| <b>Secondary Armament(s)</b> | 7.62mm PKT machine gun   |
| <b>Armor</b>                 | Aluminum alloy armor with optional add-on armor kits   |
| <b>Countermeasures</b>       | Smoke grenade launchers  |
| <b>Special Features</b>      | Amphibious capability, airborne deployable, modern fire control system   |
| <b>Application</b>           | Designed for airborne and naval infantry units, capable of engaging tanks, armored vehicles, and fortifications. |

T-80UE-1

|                              |  |
|------------------------------|--|
| <b>Description</b>           | Modernized version of the T-80U.   |
| <b>Primary Armament(s)</b>   | 125mm 2A46M-1 smoothbore gun   |
| <b>Secondary Armament(s)</b> | 12.7mm NSV machine gun, 7.62mm PKT machine gun   |
| <b>Armor</b>                 | Composite armor, Kontakt-5 ERA   |
| <b>Countermeasures</b>       | Smoke grenade launchers  |
| <b>Special Features</b>      | Fire Control System: Enhanced with modern fire control systems for improved targeting and engagement accuracy. |
| <b>Application</b>           | Export variant designed for foreign military customers, with capabilities closely mirroring the T-80U.         |

T-80UM

|                              |  |
|------------------------------|--|
| <b>Description</b>           | Modernized version of the T-80U.               |
| <b>Primary Armament(s)</b>   | 125mm 2A46M-1 smoothbore gun                   |
| <b>Secondary Armament(s)</b> | 12.7mm NSV machine gun, 7.62mm PKT machine gun |

|                         |  |
|-------------------------|--|
| <b>Armor</b>            | Composite armor, Kontakt-5 ERA   |
| <b>Countermeasures</b>  | Smoke grenade launchers  |
| <b>Special Features</b> | Enhanced systems and protection over the base T-80U.                   |
| <b>Application</b>      | Further improved T-80U model with contemporary systems and protection. |

### T-90 (obr. 1992g.)

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|--|--|
| <b>Description</b>                           | A major evolution of the T-72 series, introduced in 1992.              |
| <b>Primary Armament(s)</b>                   | 125mm 2A46M smoothbore gun   |
| <b>Secondary Armament(s)</b>                 | 12.7mm NSV machine gun, 7.62mm PKT machine gun                         |
| <b>Armor: Composite armor, Kontakt-5 ERA</b> |  |
| <b>Countermeasures</b>                       |  |
| <b>Special Features</b>                      | Modern fire control system, improved engine, and protection.           |
| <b>Application</b>                           | Advanced MBT designed to incorporate modern features and technologies. |

### T-90SA (obr. 2004g.)

|                              |  |
|------------------------------|--|
| <b>Description</b>           | Export version of the T-90 designed for specific client requirements.                            |
| <b>Primary Armament(s)</b>   | 125mm 2A46M smoothbore gun   |
| <b>Secondary Armament(s)</b> | 12.7mm NSV machine gun, 7.62mm PKT machine gun   |
| <b>Armor</b>                 | Composite armor, Kontakt-5 ERA   |
| <b>Countermeasures</b>       | Smoke grenade launchers, Shtora-1 defensive aid suite  |
| <b>Special Features</b>      | Tailored to export market needs.   |
| <b>Application</b>           | Export MBT variant for foreign military sales with capabilities closely mirroring the base T-90. |

## Cold War Era

### T-72AV

|                              |  |
|------------------------------|--|
| <b>Description</b>           | An upgraded variant of the T-72A, introduced in the mid-1980s with additional armor enhancements.    |
| <b>Primary Armament(s)</b>   | 125mm 2A46 smoothbore gun  |
| <b>Secondary Armament(s)</b> | 12.7mm NSV machine gun, 7.62mm PKT machine gun   |
| <b>Armor</b>                 | Composite armor, Kontakt-1 ERA (Explosive Reactive Armor)  |
| <b>Countermeasures</b>       | Smoke grenade launchers  |
| <b>Special Features</b>      | Improved protection with the addition of Kontakt-1 ERA, enhanced fire control systems                |
| <b>Application</b>           | Designed to improve survivability against modern anti-tank weapons and enhance combat effectiveness. |

### T-72B (obr. 1984g.)

|                    |   |
|--------------------|---|
| <b>Description</b> | Variant of the T-72 MBT introduced in 1984. |
|--------------------|---|

|                              |   |
|------------------------------|---|
| <b>Primary Armament(s)</b>   | 125mm 2A46M smoothbore gun  |
| <b>Secondary Armament(s)</b> | 12.7mm NSV machine gun, 7.62mm PKT machine gun  |
| <b>Armor</b>                 | Composite armor, Kontakt-1 ERA  |
| <b>Countermeasures</b>       | Smoke grenade launchers   |
| <b>Special Features</b>      | Enhanced optics and fire control systems over earlier models                            |
| <b>Application</b>           | General-purpose MBT with improved protection and capabilities over the base T-72 model. |

### T-72B (obr. 1985g.)

|                              |  |
|------------------------------|--|
| <b>Description</b>           | Further improvement of the T-72B introduced in 1985.                             |
| <b>Primary Armament(s)</b>   | 125mm 2A46M smoothbore gun   |
| <b>Secondary Armament(s)</b> | 12.7mm NSV machine gun, 7.62mm PKT machine gun                                   |
| <b>Armor</b>                 | Composite armor, Kontakt-1 ERA   |
| <b>Countermeasures</b>       | Smoke grenade launchers  |
| <b>Special Features</b>      | Enhanced armor configuration and internal systems                                |
| <b>Application</b>           | Incremental upgrade of the T-72B, maintaining its role as a general-purpose MBT. |

### T-72B (obr. 1989g.)

|                              |  |
|------------------------------|--|
| <b>Description</b>           | Upgrade of the T-72B from the late 1980s.  |
| <b>Primary Armament(s)</b>   | 125mm 2A46M smoothbore gun   |
| <b>Secondary Armament(s)</b> | 12.7mm NSV machine gun, 7.62mm PKT machine gun   |
| <b>Armor</b>                 | Composite armor, Kontakt-5 ERA   |
| <b>Countermeasures</b>       | Smoke grenade launchers  |
| <b>Special Features</b>      | Enhanced protection with the introduction of the more effective Kontakt-5 ERA.                   |
| <b>Application</b>           | Improved protection against contemporary threats, maintaining its role as a general-purpose MBT. |

### T-72B (often referred to as T-72BB)

|                              |  |
|------------------------------|--|
| <b>Description</b>           | An advanced variant of the T-72 series, introduced in 1985 with significant improvements in armor and firepower.                   |
| <b>Primary Armament(s)</b>   | 125mm 2A46M smoothbore gun   |
| <b>Secondary Armament(s)</b> | 12.7mm NSV machine gun, 7.62mm PKT machine gun   |
| <b>Armor</b>                 | Composite armor, Kontakt-1 or Kontakt-5 ERA  |
| <b>Countermeasures</b>       | Smoke grenade launchers  |
| <b>Special Features</b>      | Improved fire control system, enhanced armor protection, capable of firing anti-tank guided missiles (ATGMs) through the main gun. |
| <b>Application</b>           | Designed to counter modern threats with improved protection, firepower, and versatility in various combat scenarios.               |

### T-80

|                              |  |
|------------------------------|--|
| <b>Description</b>           | Soviet MBT, the world's first to feature a gas turbine engine. |
| <b>Primary Armament(s)</b>   | 125mm 2A46 smoothbore gun                                      |
| <b>Secondary Armament(s)</b> | 12.7mm NSV machine gun, 7.62mm PKT machine gun                 |

|                         |   |
|-------------------------|---|
| <b>Armor</b>            | Composite armor   |
| <b>Countermeasures</b>  | Smoke grenade launchers   |
| <b>Special Features</b> | Gas turbine engine providing high power-to-weight ratio.                                  |
| <b>Application</b>      | A unique MBT with a gas turbine engine, offering fast speeds but higher fuel consumption. |

### T-80A

|                              |   |
|------------------------------|---|
| <b>Description</b>           | An upgraded version of the T-80 with improved armor and armament.                             |
| <b>Primary Armament(s)</b>   | 125mm 2A46-2 smoothbore gun   |
| <b>Secondary Armament(s)</b> | 12.7mm NSV machine gun, 7.62mm PKT machine gun  |
| <b>Armor</b>                 | Composite armor, Kontakt-1 ERA  |
| <b>Countermeasures</b>       | Smoke grenade launchers   |
| <b>Special Features</b>      | Improved fire control systems and overall combat enhancements.                                |
| <b>Application</b>           | Enhanced capabilities over the base T-80 model, designed to tackle modern threats of its era. |

### T-80B

|                              |   |
|------------------------------|---|
| <b>Description</b>           | Improvement over the T-80A with various upgrades.                           |
| <b>Primary Armament(s)</b>   | 125mm 2A46-2 smoothbore gun   |
| <b>Secondary Armament(s)</b> | 12.7mm NSV machine gun, 7.62mm PKT machine gun                              |
| <b>Armor</b>                 | Composite armor, Kontakt-1 ERA  |
| <b>Countermeasures</b>       | Smoke grenade launchers   |
| <b>Special Features</b>      | Improved engine, fire control system, and optics.                           |
| <b>Application</b>           | Further refinement of the T-80 series to meet evolving combat requirements. |

### T-80BK

|                              |   |
|------------------------------|---|
| <b>Description</b>           | Command variant of the T-80B.   |
| <b>Primary Armament(s)</b>   | 125mm 2A46-2 smoothbore gun   |
| <b>Secondary Armament(s)</b> | 12.7mm NSV machine gun, 7.62mm PKT machine gun                                      |
| <b>Armor</b>                 | Composite armor, Kontakt-1 ERA  |
| <b>Countermeasures</b>       | Smoke grenade launchers   |
| <b>Special Features</b>      | Additional communication and navigation equipment for command and control purposes. |
| <b>Application</b>           | Command tank variant designed to lead armored formations in battle.                 |

### T-80BV

|                              |  |
|------------------------------|--|
| <b>Description</b>           | T-80B variant with enhanced protection.                                      |
| <b>Primary Armament(s)</b>   | 125mm 2A46-2 smoothbore gun  |
| <b>Secondary Armament(s)</b> | 12.7mm NSV machine gun, 7.62mm PKT machine gun                               |
| <b>Armor</b>                 | Composite armor, Kontakt-1 ERA   |
| <b>Countermeasures</b>       | Smoke grenade launchers  |
| <b>Special Features</b>      | Introduction of Kontakt-1 explosive reactive armor for increased protection. |

|                    |   |
|--------------------|---|
| <b>Application</b> | Enhanced protection to better handle contemporary threats in its operational era. |
|--------------------|---|

## T-80BVK

|                              |   |
|------------------------------|---|
| <b>Description</b>           | Command variant of the T-80BV.  |
| <b>Primary Armament(s)</b>   | 125mm 2A46-2 smoothbore gun   |
| <b>Secondary Armament(s)</b> | 12.7mm NSV machine gun, 7.62mm PKT machine gun                                      |
| <b>Armor</b>                 | Composite armor, Kontakt-1 ERA  |
| <b>Countermeasures</b>       | Smoke grenade launchers   |
| <b>Special Features</b>      | Enhanced communication and navigation equipment for command and control purposes.   |
| <b>Application</b>           | Command tank variant with improved protection, designed to lead armored formations. |

## T-80U

|  |  |
|--|--|
| <b>Description</b>                           | A major upgrade of the T-80 series with advanced features.                                   |
| <b>Primary Armament(s)</b>                   | 125mm 2A46M-1 smoothbore gun   |
| <b>Secondary Armament(s)</b>                 | 12.7mm NSV machine gun, 7.62mm PKT machine gun   |
| <b>Armor: Composite armor, Kontakt-5 ERA</b> |  |
| <b>Countermeasures</b>                       | Smoke grenade launchers  |
| <b>Special Features</b>                      | Modern fire control system, enhanced protection, improved mobility, and engine enhancements. |
| <b>Application</b>                           | Advanced MBT variant designed for modern warfare scenarios.                                  |

## T-80U (45M)

|                              |   |
|------------------------------|---|
| <b>Description</b>           | T-80U variant.  |
| <b>Primary Armament(s)</b>   | 125mm 2A46M-1 smoothbore gun  |
| <b>Secondary Armament(s)</b> | 12.7mm NSV machine gun, 7.62mm PKT machine gun                                    |
| <b>Armor</b>                 | Composite armor, Kontakt-5 ERA  |
| <b>Countermeasures</b>       | Smoke grenade launchers   |
| <b>Special Features</b>      | Enhanced fire control, optics, and other systems.                                 |
| <b>Application</b>           | Further refinement of the T-80U, bringing it up to par with modern MBT standards. |

## T-80UK

|                              |   |
|------------------------------|---|
| <b>Description</b>           | Command version of the T-80U.   |
| <b>Primary Armament(s)</b>   | 125mm 2A46M-1 smoothbore gun  |
| <b>Secondary Armament(s)</b> | 12.7mm NSV machine gun, 7.62mm PKT machine gun  |
| <b>Armor</b>                 | Composite armor, Kontakt-5 ERA  |
| <b>Countermeasures</b>       | Smoke grenade launchers   |
| <b>Special Features</b>      | Advanced communication and navigation equipment.  |
| <b>Application</b>           | Command variant of the T-80U, designed to lead and coordinate armored formations in battle. |

## Post-WWII

### T-34-85M

|                              |   |
|------------------------------|---|
| <b>Description</b>           | An upgraded version of the T-34-85, introduced in the post-World War II period.   |
| <b>Primary Armament(s)</b>   | 85mm ZiS-S-53 gun   |
| <b>Secondary Armament(s)</b> | 7.62mm DT machine gun   |
| <b>Armor</b>                 | Enhanced steel armor compared to the original T-34-85   |
| <b>Countermeasures</b>       | None  |
| <b>Special Features</b>      | Improved engine and transmission, upgraded gun sight and fire control system  |
| <b>Application</b>           | Modernized version to extend the service life of the T-34-85 for use in various roles including training and reserve units. |

### T-55A

|                              |  |
|------------------------------|--|
| <b>Description</b>           | A variant of the T-55 main battle tank, introduced in 1963 with additional features and improvements.          |
| <b>Primary Armament(s)</b>   | 100mm D-10T2S rifled gun   |
| <b>Secondary Armament(s)</b> | 7.62mm SGMT coaxial machine gun, 12.7mm DShK AA machine gun  |
| <b>Armor</b>                 | Improved composite armor, NBC (Nuclear, Biological, Chemical) protection system                                |
| <b>Countermeasures</b>       | Smoke grenade launchers  |
| <b>Special Features</b>      | Enhanced protection against radiation and chemical threats, improved night vision devices                      |
| <b>Application</b>           | Widely used main battle tank, upgraded for better survivability and effectiveness in diverse combat scenarios. |

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Last update: **2025/01/05 07:41**

