



DMD
GROUP



MINISTRY
OF DEFENCE
OF THE SLOVAK REPUBLIC

DMD

GROUP



guns & barrel
production



self-propelled artillery
systems production



ammunition
production



- zts -
Š P E C I Á L

ABOUT

The company has 80 years tradition in production of military equipment and has at the disposal technology for the production of guns and barrels in calibre range from 30 mm up to 155 mm. Over 50 types approx. 50 000 units of weapons produced from 1937.

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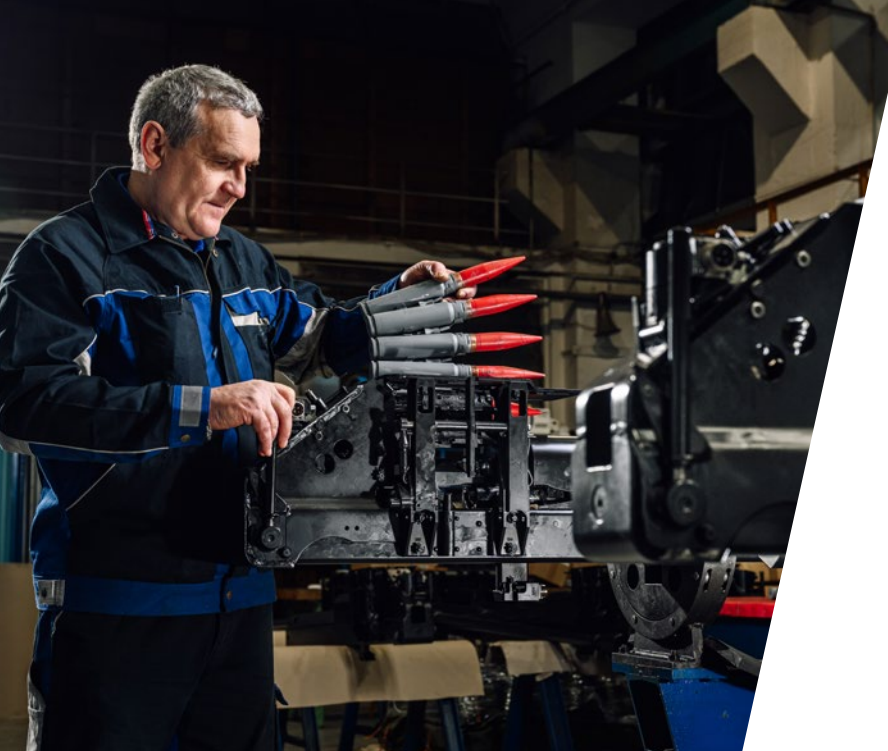
▼ Barrels

BARREL'S PRODUCTION PROGRAM

Complete production and repairs of gun barrels ranging from 30 mm up to 155 mm:

- ▶ 30 mm cannon for BMP-2
- ▶ 73 mm cannon for BMP-1
- ▶ 100 mm cannon for T-54, T-55
- ▶ 81 mm, 98 mm and 120 mm mortar barrels
- ▶ 125 mm tank gun for T-72
- ▶ 125 mm modernized tank gun GTS-125
- ▶ 152 mm cannon for SpGH DANA
- ▶ 155 mm/39 cal. Barrel for the 155 K 83-97 Howitzer
- ▶ 155 mm/45 cal. cannon for SpGH ZUZANA model 2000
- ▶ 155 mm/52cal. cannon for SpGH ZUZANA 2





▼ 30 mm automatic gun

GTS-30 (2A42)

The 30 mm automatic gun is designed for firing at light armored targets within a distance up to 1500 m, non-armored targets within a distance up to 4000 m and also low-flying subsonic targets up to 2000 m within a slant distance of 2500 m. The gun can be fired in single shots or in burst (low or high rate of fire). It offers reliable functioning under sever condition such as temperature range from +50 °C up to -50 °C in rain, dust, frost or in a very dry environment. Ammunition types: 30×165 mm AP, HE, HEI, APFSDS-T. Serial production is ongoing in ZTS – ŠPECIÁL.





▼ DVK-30

One-man turret

Main features:

- ▶ light, compact, tested, easy to operate and maintain
- ▶ effective firing on the move at day and night
- ▶ high probability hit by first shoot
- ▶ high accuracy calculation of ballistic parameters
- ▶ turret is easily installable on a variety of wheeled and tracked vehicles
- ▶ utilization of combat proven weapons systems,
- ▶ ammunition and FCS providing for effective conduct of combat at any weather conditions, day or night
- ▶ ATGM
- ▶ Target tracking



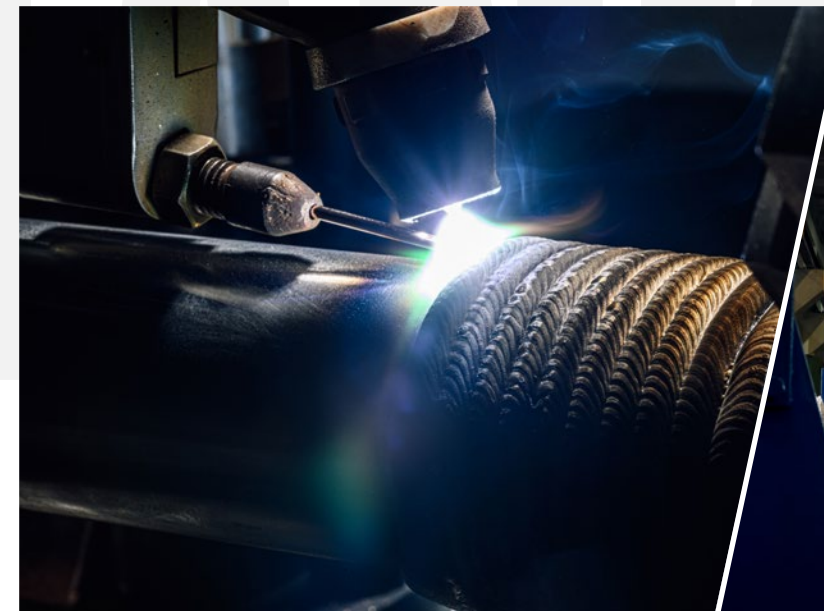
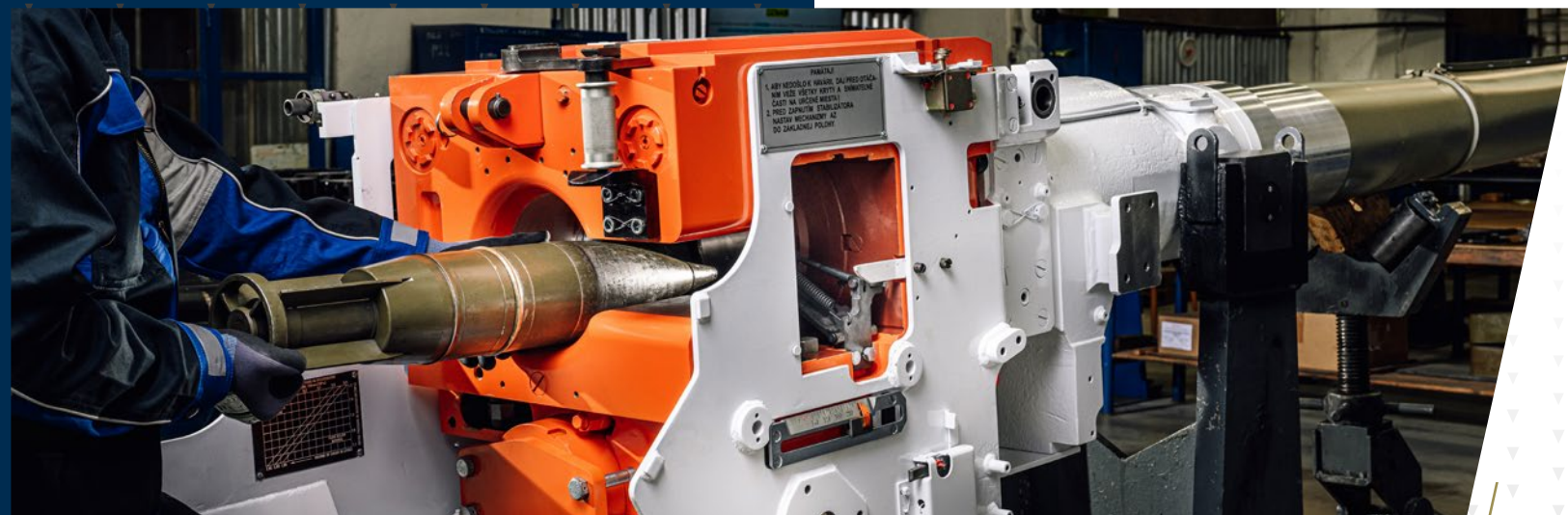


▼ 125 mm tank gun

GTS-125

Installed in a tank serves to accomplish following tasks:

- ▶ Fight against tanks and other armoured means of the enemy
- ▶ Neutralization and destruction of artillery
- ▶ Destruction and disabling of fire means and troops
- ▶ Recoil mechanism mounted symmetrically to the barrel axis
- ▶ Increased volume of the bore evacuator
- ▶ Barrel guidance within the cradle prolonged into the gun shield
- ▶ Increased first round hit probability by 23% compared to standard 2A46 gun





ABOUT

Konštrukta Defence operates as a design, development & testing authority since its establishment in 1953. It also operates in an area of production, assembly, repair, and maintenance processes of military equipment.

It performs providing services in the below areas:

design, development and manufacture of a variety of weapon systems and related electronics and control systems;

modernization and upgrade programmes, maintenance and repairs of both military and dedicated equipment operated by armed forces;

services of specialized testing performance such as mechanical, climatic, environmental tests, shooting testing, weapon and ammunition testing, certification for pyrotechnical articles and explosives for civilian usage, extension of ammunition service life, etc.

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▼ Self-propelled artillery systems

155 mm 52 cal.

The KONŠTRUKTA – Defence Family of 155 mm 52 cal. Self-propelled Guns represents the state-of-the-art autonomous Artillery Systems fitted with fully automatic loading system and externally mounted gun providing very comfortable and highly protected worksites to the crewmembers enabling the concentrated performance of firing mission and tasks without demanding physical effort.

They are featuring:

- ▶ Far distant range, high rate and accuracy of fire
- ▶ Supply of carried ammunition ready to fire adequate to fulfil the various scenario of firing tasks
- ▶ MRSI mission capability
- ▶ Short time to set the system into and out of action
- ▶ On-board Computerized Fire Management System, MVR, INS, GPS and up-to-date instrumentation equipment
- ▶ DELOSYS Artillery Command and Fire Control System integrated with an open architecture to be adapted to existing systems already deployed by user
- ▶ High mobility under various landscape conditions
- ▶ A/C, NBC System, Fire Suppression System
- ▶ Ballistic and Mine Protection, Laser and Radar Irradiation Detection and Smoke Grenade Launchers optionally by user's requirements
- ▶ And many others



ZUZANA 2



EVA



DIANA

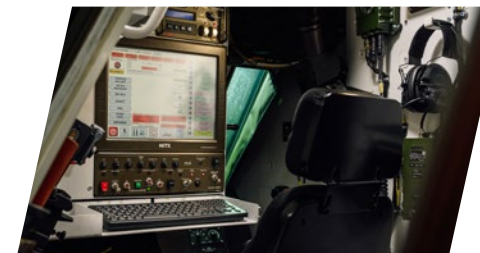
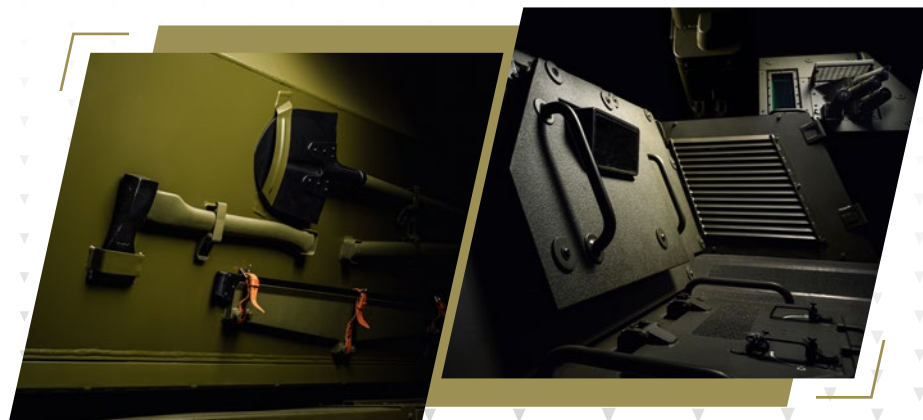


▼ Zuzana 2

represents the basic model based on the military TATRA 8×8 chassis. It is operated by four crew members. With a combat weight of 33.8 tons, it carries forty pieces of complete rounds ready to fire. Any NATO standard ammunition is compatible to be fired from the weapon system.

Technical specification

4	Crew men	40	Ammunition carried /ready to fire pcs	33,8	Combat weight tons
8×8	With engine in rear chassis	80	Travel speed km/h	600	Range of action km



Shooting characteristics

- 5 rounds in the first minute
- 13 rounds in three minutes
- 2 rounds per minute in manual mode of operation
- Multiple round simultaneous impact
- Shoot and scoot tactics





Leading artillery system

ZUZANA 2 is a flagship product designed and manufactured by KONŠTRUKTA – Defence. It belongs into the group of the most advanced artillery systems available worldwide. The new howitzer platforms will form part of the Slovak Army's Integrated Artillery Fire System and will be employed in a wide spectrum of operations in support of mechanised and motorised battalions at home and on NATO and EU operations.

ZUZANA 2





▼ Eva

Utilizes entirely the same powerful and proven gunnery system however, the architecture of the weapon system is rearranged in order to make the system lighter and more flexible to be deployed to various destination locations. It can be mounted on either 6 × 6 or 8 × 8 platform configurations based on the customer's preference obviously with relevant combat weight response. Three crewmembers operate the system from the inside of an armor-protected cabin.

Technical specification

3 Crew
men

90 Travel
speed
km/h

700 Range
of action
km



▼ Diana

Represents a very heavy-duty configuration of 155 mm 52 cal. Self-propelled Artillery System while integrating the autonomous weapon superstructure of ZUZANA 2 into the reinforced tracked chassis of the main battle tank. In this way, it is completing the scope of tactical deployment of weapons into the toughest demanding conditions and various scenarios for the Armed Forces users. The DIANA carries 40 complete rounds ready to fire loaded in turret magazines, plus another 22 rounds are stored in the hull compartment.

Technical specification

4 Crew
men

52,3 Combat
weight
tons

60 Travel on
road speed
km/h

650 Range
of action
km





▼ Unikar.O1

The Unikar.O1 Sanitary Vehicle based on a Mercedes UNIMOG 4023 chassis with excellent high off-road capacity and 4x4 drive uses modern technologies and is equipped with proven systems established within NATO Armies and thus addressing the present demanding requirements of military users.

It is designed to transport up to nine persons – driver and two passengers in a cabin plus doctor and 3 sitting and 2 lying patients in an ambulance compartment.

The ambulance is completely furnished with modern medical equipment covering Intraxx (Integrated Vehicle Component System), FERNO suspension system on the walls of the console superstructure with the possibility of modular addition to the equipment – infusion material and equipment, devices for managing the life-threatening conditions, rescue and protective material, patient handling equipment, immobilization equipment, ventilation-breathing set, diagnostic equipment and additional equipment.



▼ Delosys 1

DELOSYS Artillery Command and Fire Control System

The DELOSYS Is a comprehensive artillery command and fire control system to be deployed on battalion and battery levels in conjunction with various artillery units.

It is an open C4I system designed to automate battlefield command and fire control using the latest technology and software means. The system can be easily adjusted to fit any existing national fire command and control systems currently in service.

It incorporates the below functionalities:

- ▶ Calculating the topographic information;
- ▶ Processing the meteorological information;
- ▶ Computing the firing data using differential equations;
- ▶ Using the digital maps;
- ▶ Fire planning.





ABOUT

Company established in 1937, dealing with development, production and sale in area of mechanical engineering, electrotechnics and special production focusing on ammunition.

The company is able to offer a wide range of 30 mm ammunition for the 2A42 Canon, mortar bombs of caliber 81 mm, 98 mm, 120 mm. 125 mm ammunition for T-72, 155 mm ammunition capable of being fired from 39, 45 and 52 caliber guns, 152 mm upgraded ammunition and transfer of technology aimed for production and assembly of small, middle and large caliber ammunition.

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▼ Ammunition

- ▶ 30 mm APHC, AP-T, HEI, HEI-T, HE-T practice, HE-T ammunition for cannons 2A42, 2A38, 2A72
- ▶ 81 mm, 98 mm, 120 mm Mortar bombs
- ▶ 122 mm ammunition and 125 mm ammunition
- ▶ 152 mm ammunition
- ▶ 155 mm ammunition for 39, 45 and 52 cal. guns
- ▶ Ammunition components
- ▶ Demilitarization and disposal of ammunition
- ▶ Transfer of technology for production of ammunition and its part
- ▶ Mechanical engineering

▼ Components



▼ Medium Caliber



▼ Mortar



▼ Tank



▼ Artillery

900 mm

600 mm

300 mm

0 mm



Kontakt

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