



PGZ

POLISH ARMAMENTS GROUP

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PGZ

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Turnover
\$2 B+

Employment
17,5 K+

Production
sites 100+

Assets
\$3 B+

Ministry of National Defence
of The Republic of Poland



POLISH ARMAMENTS GROUP



AIR



SEA



LAND



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- ✓ One of the largest groups in Europe
- ✓ NATO standards and highest quality
- ✓ Modern and price efficient
- ✓ Competitive and flexible
- ✓ More than 100 production facilities
- ✓ Selling own products to many countries
- ✓ Local customer support to provide highest reaction standards



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ToT projects



Training

Consultancy

J. V.

R & D

Production

Implementation

Maintenance

Service

Utilization

Covering full life-cycle of products



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PGZ in the Polish Armed Forces Technical Modernization Plan



14 armament modernization programs

PGZ Product Domains

AIR

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land platforms



air platforms



sea platforms



electronic equipment
and IT



anti-aircraft defense



ballistic weapons
and defense



ammunition
and missiles



gun and
missile artillery



aerospace and
satellite technologies



cyber technologies

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Rosomak



**AMV WITH 12,7
mm TURRET**



AMV ROSOMAK M



MEDIVAC



**AMV ROSOMAK
HITFIST 30 mm**



DRIVING INSTRUCTION

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ZDPSR SOŁA – is a modern, multitask three-dimensional (3D) radar designed to detect and indicate airborne targets and missile/ mortar rounds targets and hovering helicopters
Manufacturer: PIT-RADWAR S.A.

POPRAD – is a short-range anti-aircraft system capable of destroying air targets at low and middle altitudes, using homing guidance missiles
Manufacturer: PIT-RADWAR S.A.



KOBRA system



GROM – four missile launchers
Manufacturer: MESKO S.A.



KMW-3 – day/night thermal imaging camera
Manufacturer: PCO S.A.

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MANPADS

PGZ offers the widely recognized **GROM-M MANPADS** class anti-aircraft missile set, intended for combating airborne targets, including in particular airplanes and helicopters.

Danger zone – up to 5,500 m

Missile calibre – 72 mm

Average flight speed – 580 m/s

Working temperature range – from -35°C to $+50^{\circ}\text{C}$



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Army ATGM Spike



PPK SPIKE – is an anti-tank missile system for combating tanks and armored vehicles as well as combat helicopters at a distance between 200 and 4,000 m. SPIKE, with a 107 mm caliber missile, is equipped with an optoelectronic, tandem-charge self-guidance warhead (with a television camera and an argon-cooled infrared detector), enabling the transmission of image from the missile warhead to the launcher's display via a fiber-optical link
Manufacturer: MESKO S.A.

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Artillery Equipment

WLR LIWIEC – state-of-the-art
mobile weapon locating radar
Manufacturer: PIT-RADWAR S.A.



60 mm mortar
Manufacturer:
ZM Tarnów S.A.



98 mm mortar
Manufacturer:
HSW S.A.



120 mm mortar
Manufacturer:
HSW S.A.



KRAB – 155 mm self-propelled howitzer
Maximum speed, road – 60 km/h
Fire zone – 40,000 m
Max. rate of fire – 6 shots/min for 3 min
Additional machine gun – 12.7 mm WKM-B
Manufacturer: HSW S.A.,
Cooperation: ZM Tarnów S.A.

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Armored Equipment

PT-91 / PT91-Ex – proved and reliable tanks with high quality optoelectronic equipment enabling day and night operations

Max. tank weight – 45,900 kg / 47,500 kg
Maximum speed, road – 60 km/h / 65 km/h
Engine power – 625 kW / 735 kW
Manufacturer: ZM “BUMAR-ŁĄBĘDY” S.A.



WZT-3 – armored recovery vehicle intended for service of tanks and other vehicles participating in operations on the battlefield

Max. vehicle weight – 42,000 kg
Maximum speed, road – 65 km/h
Engine power – 625 kW
Armament – 12.7 mm large-caliber machine gun
Manufacturer: ZM “BUMAR-ŁĄBĘDY” S.A.



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Heavy Truck Vehicles & Engineering Equipment



JELCZ 4x4 – JELCZ mark 442.32 type platform truck is 2-axle, all-wheel-drive (4x4), high-mobility vehicle. The chassis is adapter to on-road and off-road drive and meets ADR requirements.

Chassis weight – 9,600 kg

Max. engine power – 240 kW

Engine – MTU 6R106TD21 EURO III

Gear box – 9 gears

Working temperature range – from –30°C to +50°C



JELCZ 6x6 – is the basic vehicle adapted for semi-trailers for the purpose of carrying military equipment, characterized by high mobility on hard-surfaced roads and off-road

Chassis weight – 14,500 kg

Max. engine power – 316 kW

Engine – IVECO FPT CURSOR 10 EURO III

Gear box – 16 gears

Working temperature range – from –30°C to +50°C

Available options: 4x4, 6x4, 6x6, 8x6, 8x8



JELCZ 8x8 – JELCZ mark P882.53 chassis is 4-axle, all-wheel-drive (8x8), high-mobility vehicle. The chassis is adapter to on and off road drive and meets ADR requirements.

Chassis weight – 18,500 kg

Max. engine power – 393 kW

Engine – IVECO FPT CURSOR 13 EURO III

Gear box – 16 gears

Working temperature range – from –30°C to +50°C

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Heavy Truck Vehicles & Engineering Equipment



MG-20 DAGLEZJA-G – assault bridge on tracked chassis

Water or terrain gaps width – up to 20 m
High mobility
Quick and fully automated unfolding
High level of active and reactive protection
of vehicle and crew
Possibility of pedestrian passing
Manufacturer: OBRUM Sp. z o.o. & cooperation: ZM „BUMAR-ŁABĘDY” S.A.



MS-20 DAGLEZJA – accompanying bridge on wheeled chassis

Water or terrain gaps width – up to 20 m
High mobility
Short time of unfolding
Possibility of pedestrian passing
Authorization for public roads
Tractor: JELCZ C662D.43
Manufacturer: OBRUM Sp. z o.o. & cooperation: Jelcz Sp. z o.o.

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Individual Soldier Equipment



MSBS – 5.56 mm modular firearm system



96 BERYL – 5.56 mm assault rifle



UKM 2000 P – 7.62 mm machine gun



WN-1T – image data display.



MU-3M KOLIBER – night vision monocular



GSBO-40 – 40 mm single-shot
RGP-40 – 40 mm multi-shot



PPS – 9 mm semi-automatic subcompact pistol



PR-15 RAGUN – 9 mm semi-automatic pistol



PM-06 GLAUBERYT – 9 mm sub-machine pistol



PM-06 GLAUBERYT – 9 mm sub-machine pistol



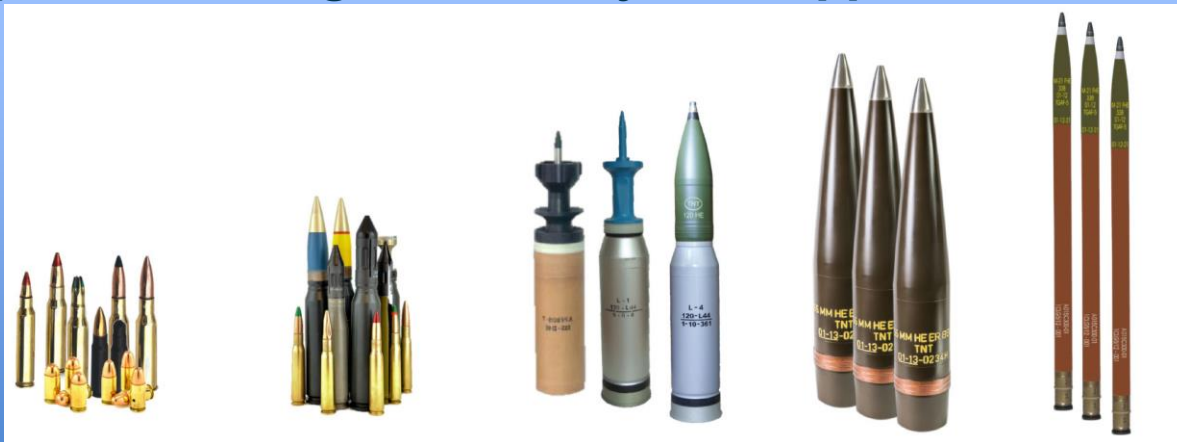
PM-98 GLAUBERYT – 9 mm sub-machine pistol

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Operational Programs – Army Fire Support (Ammunition)



SMALL CALIBER AMMUNITION
(Design, Utilization)

5,56 x 45
7,62 x 51
7,62 x 39
7,62 x 54 R
9x18 Makarov & 9x19 Parabellum

MEDIUM CALIBER AMMUNITION
(Design, Production, Utilization)

12,7x99
20x102
23x152
30x173
35x228

MEDIUM CALIBER AMMUNITION
(Design, Production, Utilization)

12,7x99
20x102
23x152
30x173
35x228

ARTILLERY AMMUNITION

122 mm
152 mm
155 mm

**FENIKS 122 mm ROCKET M-21
FHE**

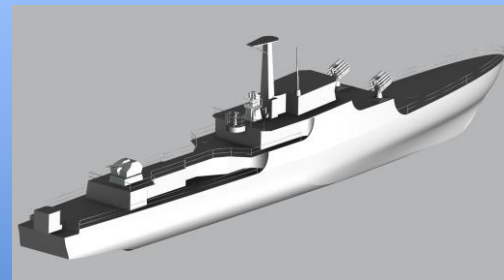
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Naval Platforms

- ✓ *COMMAND & CONTROL SYSTEMS*
- ✓ *UNDERWATER WEAPON SYSTEMS*
- ✓ *MARITIME INFRASTRUCTURE PROTECTION SYSTEMS*
- ✓ *RADIO COMMUNICATION AND DATA EXCHANGE SYSTEMS*
- ✓ *PRODUCT TESTING & CERTIFICATION*



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UAV's (Unmanned air vehicles)

Unmanned aircraft system E-310

Ultimately the system will be adapted for operation in "Swarm" formation.

Range – 150 km

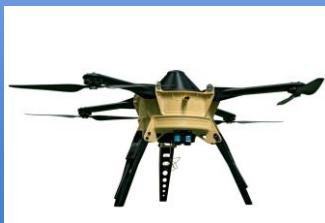
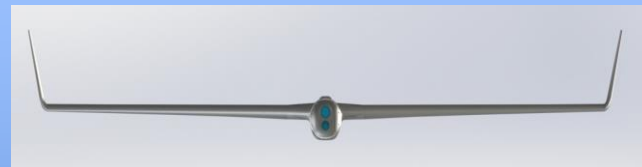
Max. flight duration – up to 15 hours

Flight ceiling – up to 5,000 m

Speed range – 120–210 km/h

High-class multi-sensor head – EO/IR (Electro-Optic/Infrared) cameras, LRD (Laser Rangefinder Designator), LTM (Laser Target Marker), which enable day and night operation

SAR (Synthetic Aperture Radar) – a high resolution radar with circular observation, enabling imaging of objects at large distances in harsh weather conditions (fog, precipitation).



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Simulators and Training Systems

SK-1 – complex simulator system for land vehicle
Training stations for driver, gunner and commander
State-of-the-art visual simulation technology
Interior of the vehicles identical as real
Manufacturer: OBRUM sp. z o.o.



Armored Vehicle-Launched Bridge Simulator – virtual training system for armored bridge laying
Manufacturer: OBRUM sp. z o.o.



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Modernization and Maintenance



PGZ provides maintenance and modernization of combat vehicles, wheeled and tracked vehicles, as well as artillery and anti-aircraft missile sets (also post-Soviet equipment)



PGZ maintains and modernizes state-of-the-art combat airplanes and helicopters (also post-Soviet equipment, including in particular F16, MIG 299, SU-22, Mi-8 and Mi-17)



PGZ overhauls, modernizes and converts various types of warships and civil vessels (also post-Soviet equipment)

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R&D Programmes



Modern 3D long range radar



New Heavy Fighting Vehicle
(GEPARD)



Remote-Controlled Weapon System
(RCWS)



155 mm Self-Propelled Howitzer
(KRYL)



Multiple Launch Rocket System
(HOMAR)

CIVIL PRODUCTION



SCIENCE AND RESEARCH VESSELS

Science vessels are ships used to carry out research at sea both scientific and commercial eg. For mining nad fishing companies.

BUSSES PRODUCTION



Our ultimate goal is

Long-term cooperation

to be achieved through

G2G partnership

Flexibility of „big enough” company

Reliability of 2 B\$, State owned organization

Efficiency and high quality with mature products



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THANK YOU FOR YOUR ATTENTION



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