

VÝVOJ
Martin
INNOVATION SPECIALISTS

member of | MSM GROUP

PROFIL OF MSM GROUP

Leader in the production of **defence and civilian equipment** with a high specialisation in artillery and tank ammunition. It unites traditional companies with a long history - **ZVS** in Dubnica nad Váhom and Snina, **VOP Nováky**, **VÝVOJ Martin** and **FMG** in Granada. Thus, it has the complete production, service and supply cycle in its own hands.

NUMBER OF INCORPORATED COMPANIES

4

NUMBER OF EMPLOYEES

1 300+





PROFIL OF CZECHOSLOVAK GROUP

CSG is an industrial-technological holding company that follows the tradition of Czech, Slovak and foreign companies. It is dedicated **to defence and civil industrial production** and commercial sector.

NUMBER OF INCORPORATED COMPANIES

100+

REVENUES IN 2023

1,73 billion €

NUMBER OF EMPLOYEES

14 000+



PROFIL OF VÝVOJ MARTIN

Expert in **designing** and **manufacturing** mobile and modular towers, navigation systems and special military and civilian containers.

LOCATION

SK

REVENUES IN 2024

19,8 mil. EUR

NUMBER OF EMPLOYEES

110+

ABOUT US

Tradition in research and development since the 1950s, when the development centre was established together with the introduction of tank production in Turčianske machinery Martin.

Beginnings of existence focused on research, development and production of applications for cranes and tanks, gradually adding new types of vehicles.

Current activities - development and production of defence and civil equipment, specialised military containers, modular and mobile air traffic control towers.

Servicing of radar equipment, air defence systems and air traffic services for the Ministry of Defence of the Slovak Republic.

Head office in Martin, development centre and production in Banská Bystrica.



HISTORY

1954 — In Turčianske machinery (ZTS) in Martin, a **development centre** (VVU) is being established, whose mission is to develop and replace old components and materials

1964 — A **new development department** for cranes, BVP, OT and TATRAPAN vehicles is opened

1974 — The company **moves to new facilities** with offices, production and testing halls, where they are still operating today

1981 — **ZTS VVÚ Martin** acquires legal subjectivity and is **the leader** of the scientific research base

1987 — Production departments of **forestry technology and mining locomotives** are established

1998 — A new company **VÝVOJ Martin is established** on the basis of ZTS VVÚ Martin

2005 — Production of **specialised containers** starts

2016 — VÝVOJ Martin enters **the MSM GROUP**

2017 — Completing the development of the **Disk II MSM tower**

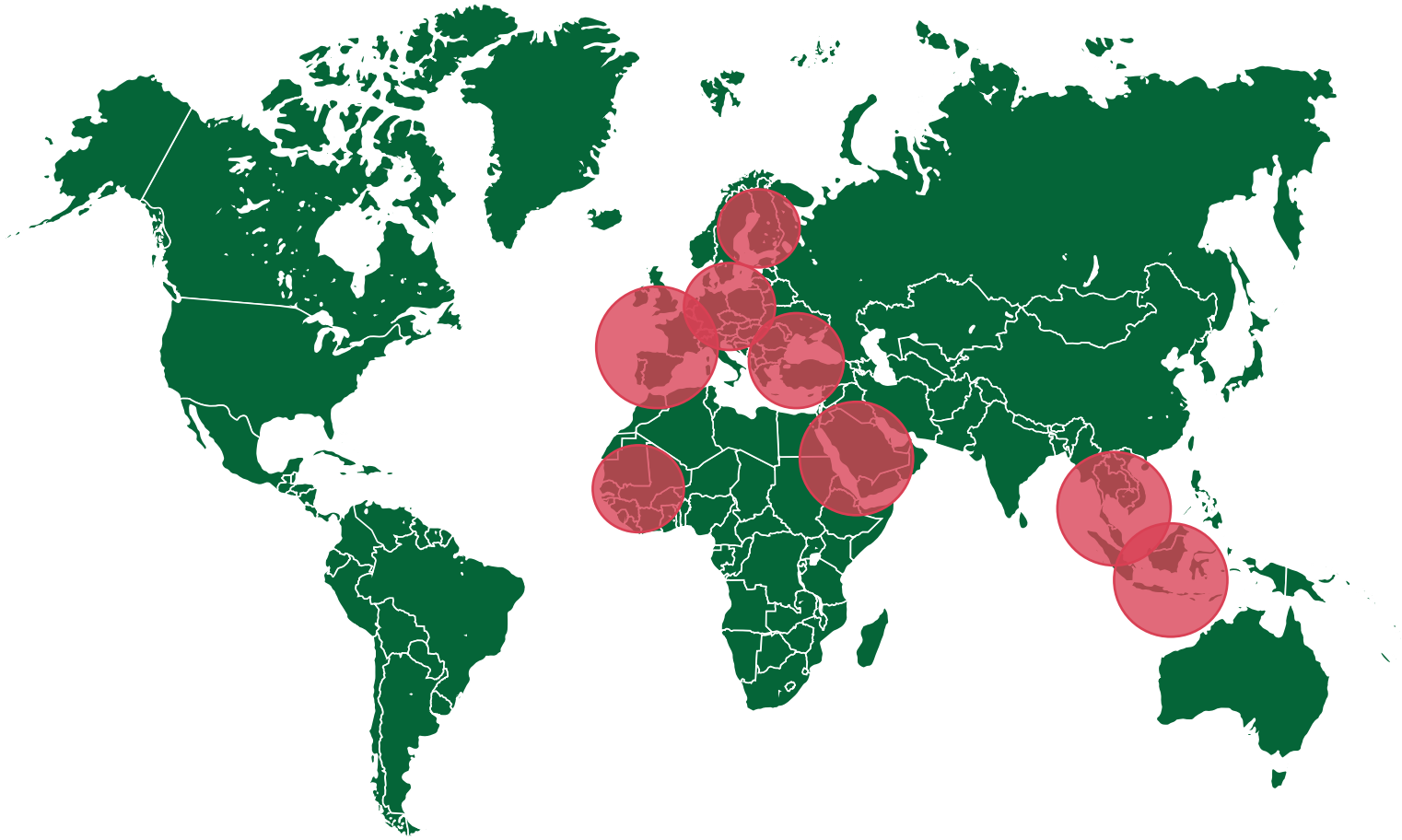
2018 — Completes development of **C130 mobile aero tower** with subsequent sale to India







MARKETS



Strategic regions

More than **70 countries** around the world

PORTFOLIO | PRODUCTS



Civil engineering



Defence technology

C2 SHELTER

Specialised containers designed for the needs of the armed forces

They serve to provide command, control and communications parts of combat operations

Up to 10 basic module types designed and intended for specific positions and functions

ISO 668 1C compliant and include EMC/EMI protection to MIL-STD461F, air conditioning, nuclear, biological and chemical (NBC) protection unit, uninterrupted power supply (UPS) backup, vibration resistant equipment installation, corrosion protection





EMC GenSet

With 1500RPM engine speed is used for powering different kinds of military loads: communication-, command- and control systems during transport and stationery.

The genset consists of diesel combustion engine, full aluminium cover and extension railing kit. The engine uses diesel stored in tank located below the genset. The GS has extended lifecycle and extended time between failures. Power output and powerfactor can change greatly during operation.



Technical data:

1 945 x 900 x 1200 mm (LxWxH)
1 300 kg (including all equipment and diesel fuel tank with volume of 137,5 dm^3)
17,6 kW generator set with prime performance: 20 kVA/16 kW
5,3 l/hour fuel consumption (100% load – 16 kW)
ISO 8528G2 governing class, MIL-STD-461F

CONTAINER POWER UNIT

Power unit in conditions where access to mains electricity is not possible

Power unit performance 120 kW, construction welded from steel profiles and trapezoidal sheets, floor designed as an impermeable emergency catch basin

Soundproof, ventilation openings protected by flaps in IP 65

Equipment: tool and accessory box, internal lighting, safety emergency button TOTAL STOP, mounting socket 400V/16A and specific equipment for the needs of the armed forces according to customer requirements

Basic option also used in the civilian sector, e.g. for radar towers





MOBIL TOWER FOR AIR TRAFFIC CONTROL

Full replacement for standard airport towers, ideal for small and field airports or as a temporary solution in case of failure of the main airport tower

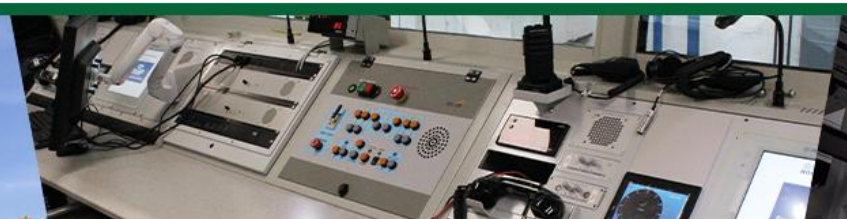
Flexible, functional and comprehensive system for every airport, with ballistic protection and complete military equipment for the defence sector

Includes telecommunications technology, camera systems, with the possibility of a modular version for containers

Transport: on a trailer behind a conventional truck, by air in a Lockheed C-130 Hercules and Alenia C-27J Spartan cargo aircraft









RADAR TOWER WITH POWER GENERATOR

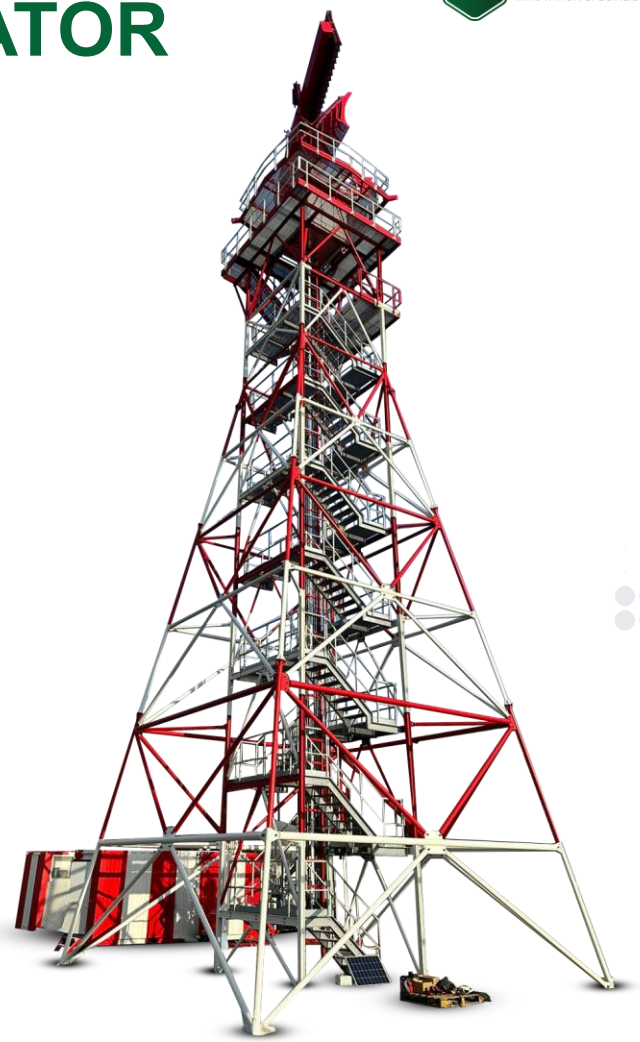
It is used for the right working and positioning of radar and antenna systems to the required height above the ground

The structure consists of assembled blocks of welded steel beams, cable tray and spiral staircase, fixed on a cement base

Adapted to the seismic and weather effects of its location area

Cable tray runs through the entire height, on the top floor - mounting points for anchoring the radar body or antenna

Continuous power supply, as a backup for the radar technology, is provided by the RPU - Radar Power Unit (a container power unit located under the radar tower)









MODULAR TOWER

Advantages over a conventional control tower - lower purchase price and faster construction

The design consists of standard ISO 1C containers and an exterior staircase, complying with all navigation and air traffic control requirements

It can include communication, meteorological, thermal imaging and camera systems. Floors - rest rooms, storage rooms, kitchenette, conference room, sanitary facilities, etc.

The ground floor consists of a container with a diesel generator as a backup source of electricity

Number of tower floors adapted to customer requirements, cabin on top floor - 360° panoramic windows







Container for Emergency Deployment

Mobile unit designed to provide facility services for rescue teams and firefighters in remote deployment areas and disaster zones. Designed and equipped to meet the requirement for survival
of 50 persons for the period of 50 days.

Container consists of following sections:

- Hygienic section with two showers and a chemical toilet
- Changing room
- Kitchen
- Technical area with water tanks
- Storage section

Container for Oil Separation:
Container and its equipment is designed for separation of oil components from water, collecting them and purifying water so that it can be discharged back into the environment without a risk of subsequent contamination.



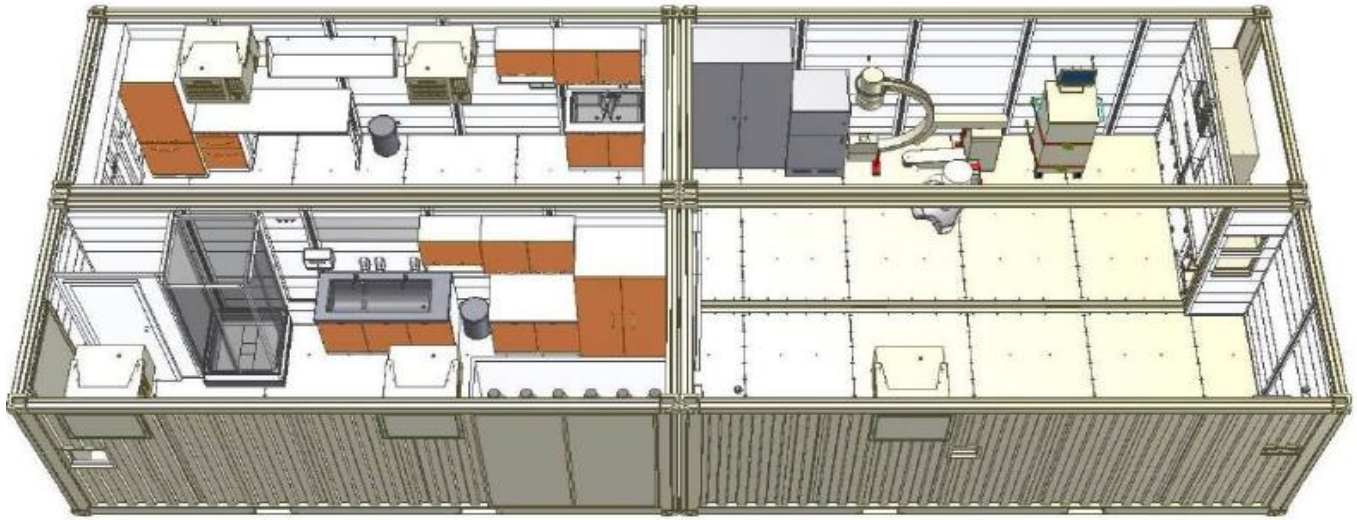




FIELD MEDICAL RESCUE & EMERGENCY SOLUTIONS

VÝVOJ Martin
INNOVATION SPECIALISTS

- Customs design shelters and tents
- Patient / doctor unit
- Operation unit
- Sterilization / Examination / Laboratory
- Bed units
- Sanitary & Power shelters









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Thank you for your attention

www.vyvoj.sk

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