



INDUSTRIAL HOLDING

TRADITION IS THE **FUTURE**



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SLOVAK TRAINING ACADEMY





Tradition is the future

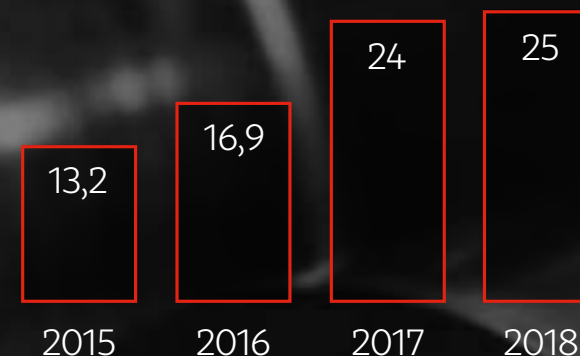
www.czechoslovakgroup.cz

CZECHOSLOVAK GROUP a.s.

Industrial holding

- › Czechoslovak Group (CSG) is a holding company with firm roots in the Czech and Slovak industrial tradition. The group provides a solid foundation for the current and future development of established brands which have a strong reputation in the manufacturing sector, specializing in both the defence industry and civilian production. In 2018, the members of the group achieved total sales of 25 billion CZK and employed over 8200 people.
- › CSG specializes in the engineering, automotive, rail, aviation and defence industries. The group has a strong focus on export markets, and its constantly growing customer base extends across all continents.
- › The group's production portfolio is wide and varied, ranging from wristwatches to railway brakes, trucks, radar systems and navigation systems for civilian production and the defence industry.

Holding sales in CZK billions



Number of employees





With a TATRA,
you make the road!



www.czechoslovakgroup.cz

TATRA TRUCKS a.s.

Tradition, reliability, performance

- › Production of trucks for the armed forces, the construction industry, mining, forestry, agriculture and firefighting. Special military vehicles with the option of enhanced ballistic protection for the crew, special technical solutions custom-developed to individual client specifications.
- › Vehicles for the toughest terrain and the most extreme climates. Offering unrivalled durability and reliability, TATRA takes you where other vehicles cannot go.
- › Unique chassis concept with a central 'backbone' tube and independently suspended swinging half-axes.
- › More than 150 years of tradition – the oldest automotive manufacturer in Central Europe, and the third oldest in the world. TATRA is a true legend.



TATRA TRUCKS a.s.

Extreme performance

- › TATRA is famous for its unique chassis concept, based on a central 'backbone' tube and independently suspended swinging half-axes. First developed in the 1920s, the TATRA chassis concept still remains unrivalled today.
- › TATRA vehicles have been developed to cope with the most demanding terrain while providing high levels of user comfort and low maintenance costs. Combined with excellent stability when turning and on sloping ground, TATRA vehicles offer a unique solution that has found loyal customers all over the world.
- › Durable and comfortable, safe and reliable – that's TATRA.



TATRA T-810 Tactic II



TATRA FORCE 8x8
recovery vehicle with armoured 4-door cab



TATRA TACTIC 6x6
cargo truck with tail lift platform

TATRA TRUCKS a.s.

A unique vehicle concept

- › TATRA's civilian production is represented by the TATRA PHOENIX and TATRA TERRA ranges. The company also produces special-purpose and military vehicles in the TATRA FORCE and TATRA TACTIC ranges.
- › TATRA's key customers on the Czech and Slovak markets are the Czech Army, the Czech National Fire Service, the Slovak Armed Forces, and commercial customers including Revitrans a.s. and Slovakia's national forestry management company. Major export markets include Russia and the former CIS countries, Israel, India, the Persian Gulf states, Australia, as well as European markets.
- › The unique handling and performance of TATRA trucks excels in the world's toughest endurance racing events. TATRA racing trucks have achieved outstanding success in the Dakar Rally and the Africa Eco Race.



TATRA PHOENIX 6x6
multipurpose telescopic excavator

TATRA TITAN

TATRA PHOENIX 6x6
log truck with trailer



Flexibility and efficiency



www.czechoslovakgroup.cz

“We used to make planes, now we make trucks. But our passion for technical perfection remains unchanged.”

AVIA Motors s.r.o.

A tradition revived

- › AVIA produces truck in category of 12 tonnes.
- › AVIA – maximizing efficiency in construction, distribution and municipal services.
- › Excellent flexibility with multiple configuration options. Customers can choose from several variants of wheel-bases, 4x2 or 4x4 drive systems, two power versions of the engine, 17.5" or 19.5" wheels – enabling each vehicle to be customized according to individual requirements.
- › The lightest chassis and the highest payload in the class. Low fuel consumption and excellent performance. AVIA trucks are highly efficient, saving both time and money.
- › The compact cab makes AVIA trucks ideal for narrow city streets and difficult conditions. The well-designed, comfortable interior provides a pleasant working environment.
- › AVIA has an extensive network of authorized dealers and servicing centres. AVIA ROAD ASSISTANCE is available to all AVIA users at all times.



Modern interior



Spare parts



Spare parts



BRAKE
SYSTEMS

Brake systems and components for rail vehicles

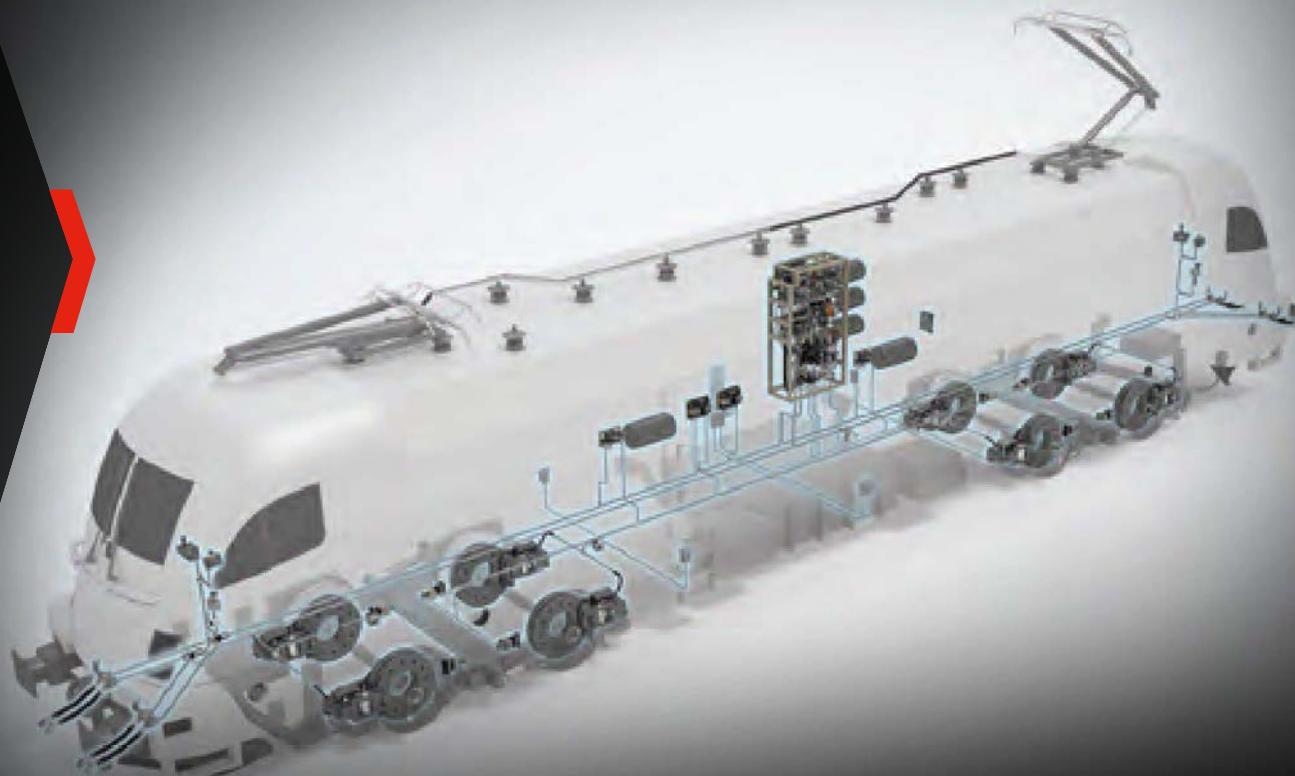
www.czechoslovakgroup.cz

“We largely contribute to rail transport security”

DAKO-CZ, a.s.

Patent-protected brake system solutions

- › Production of pneumatic, electromechanical and hydraulic brake systems for rail vehicles. Brake systems and components for freight and passenger cars, suburban units, locomotives, metro cars and trams.
- › Brake systems and components are supplied to leading global manufacturers including Siemens and Stadler. Rail vehicles with DAKO-CZ brakes operate not only in Europe, but in China, India, Malaysia, Indonesia, Algeria and Saudi Arabia.
- › DAKO-CZ has its own in-house development team with a modern testing laboratory, enabling the company to respond rapidly and flexibly to changing customer requirements. Inspired by over two centuries of tradition, quality is at the heart of everything DAKO-CZ does.



Brake components DAKO for metro in Kuala Lumpur. Source: Siemens



Electromechanical brake system for tram vehicle Moderus Gamma Poznań



Brake system DAKO-CZ Green solution



ELTON hodinářská, a.s.

- › PRIM – the only Czech watchmaker.
- › Completely handmade (including the mechanical movement), special collections (evening wear, sports watches, limited editions, art editions), custom-made watches to individual specifications.
- › Watches for corporate clients, custom-made to individual specifications – more than just an ordinary promotional gift item.
- › Renovation services for old PRIM watches including historic models.
- › PRIM has been making wristwatches in Nové Město nad Metují since 1949.



Watch installation



Case polishing



Printing the dialplate by tampon printing

Production, repair and modernization
of special military vehicles



EXCALIBUR ARMY spol. s r.o.

Development and production of military equipment

- › Production and supply of vehicles for armed forces and rescue services.
- › Production and sale of spare parts for military wheeled and tracked vehicles.
- › Complete servicing and modernization of proven types of combat vehicles and spare parts.
- › In-house development of new vehicle types.
- › Sales of weapons, ammunition and other military equipment.



AM-70 EX mobile bridge



TMVA DECON-17 decontamination vehicle



TREVA-15 recovery vehicle



EXCALIBUR ARMY spol. s r.o.

Modernization potential

- › Renovation and modernization of proven tracked and wheeled vehicles and increasing their usefulness in present and future missions.
- › Design and implementation of tailor-made adjustments and upgrades.
- › Development cooperation with CSG partner companies and important foreign military equipment producers.



MEXCA infantry fighting vehicle



BM-21 multiple-launch rocket systém



DANA M2 self-propelled howitzer

EXCALIBUR ARMY spol. s r.o.

7 decades long tradition of production, repairs and renovation

- › Background and know-how for partial repairs and complete overhauls
- › Production and supply of parts for securing equipment life-cycle
- › Continuous tradition of production and repairs of military equipment since 1951



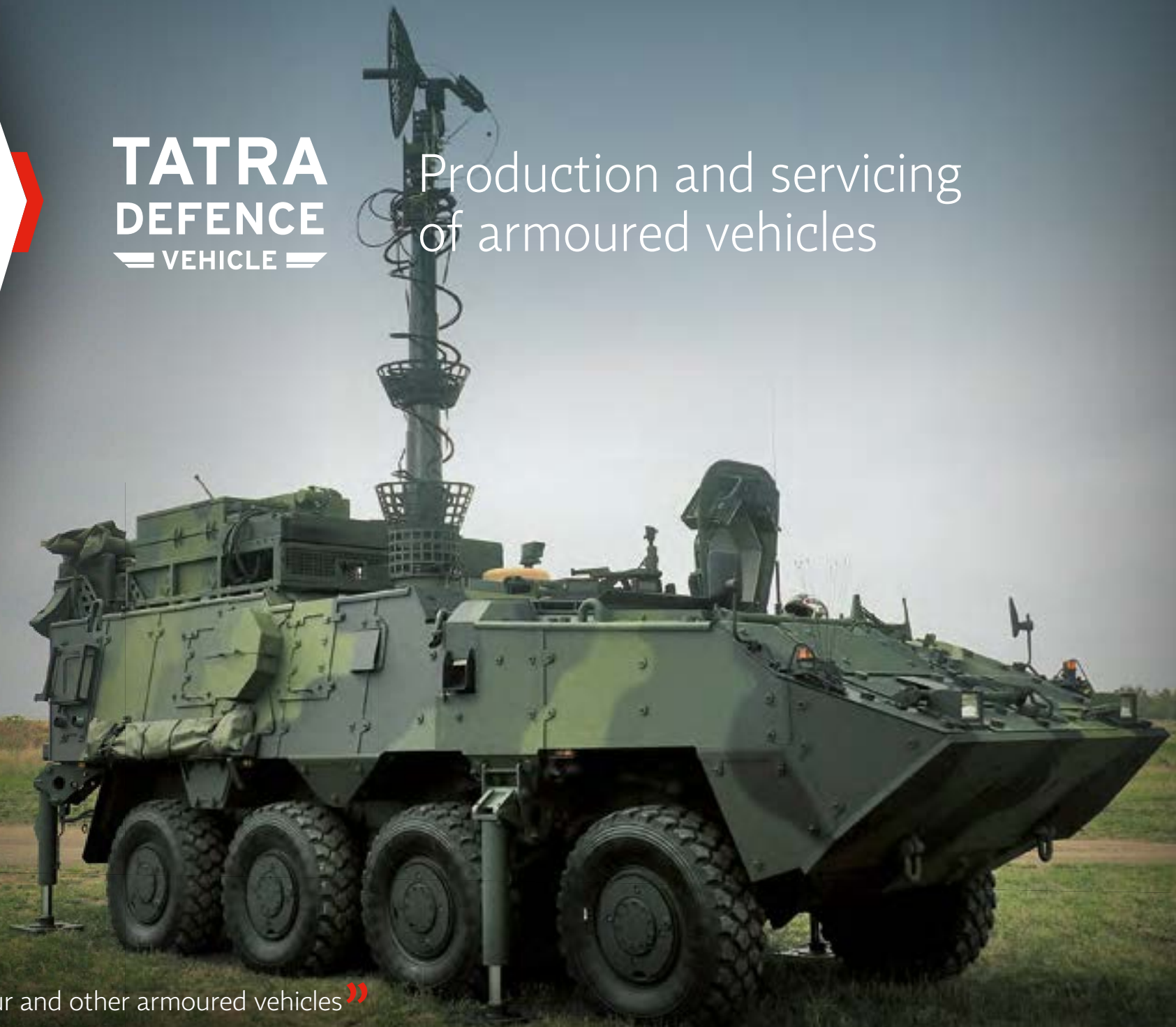
BMP-1



RM-70 multiple-launch rocket systém



Engines and power units



Tatra Defence Vehicle a.s.

PANDUR armoured personnel carriers

- › Exclusive rights to produce, sell and service the PANDUR II family of armoured personnel carriers for the Czech Republic and other selected markets in Eastern Europe and Asia.
- › Development and production of armoured vehicles on TATRA chassis.
- › Production of Titus armoured vehicles in conjunction with TATRA TRUCKS.
- › Warranty and after-warranty servicing, supply of spare parts, training for crews and maintenance teams, complete vehicle life cycle management.



Expert in the production
and life cycle of ammunition,
mobile air towers and containers

“The companies of the MSM Group cover a wide range of industries –
ammunition, weapons, military equipment, aircraft electrical systems, and IT”

MSM Martin s.r.o.

Ammunition, radio navigation and vehicles

MSM Ammunition

- Development, production and sale of ammunition. Repair, inspection and disposal of special ammunition. Training ammunition and dummy ammunition.
- Production lines.
- Airbag disposal.
- Surface treatment.

MSM Airport Solutions

- Radio navigation systems – NDB NAVYRA-500: omnidirectional beacon navigation system, powerful track-mounted dual-radio transmitter to ensure safe aircraft landing, for civil and military use.
- Radio communication systems – mobile Air Traffic Control towers.
- Ground power unit.
- Maintenance of military electrical systems.

MSM Land Systems

- Maintenance, repair and modernization of military vehicles.
- Production and authorized servicing of TATRA vehicles.
- ISO containers.
- Sales of spare parts.



Mobile Air Traffic Control tower



Production and modernization of ammunition



Special container 40' HC Double door

Production of specialist containers,
container and box bodies

“ We supply the right container for the job ”

KARBOX s.r.o.

Containers for NATO

- › Design and production of certified container solutions on a turnkey basis.
- › Special containers, container workstations and box bodies for military and civilian customers.
- › Complete servicing and repairs of containers and box bodies.
- › In-house design and development team.



TATRA 8x8 with container body



TATRA 6x6 fire engine



Extendable body

“Ammunition specialists – mechanical and electrical engineering, special production”

ZVS holding a.s.

Ammunition and mechanical engineering

- › Development, production and sale of large, medium and small calibre ammunition: mechanical and electrical engineering, special production.
- › Military and handgun ammunition, shotgun ammunition for sports and hunting.
- › Metalworking and sheet metal forming (cutting, bending, rolling, spot welding, powder coating), pressing hollow pieces, transformers, electronics.



125 mm tank ammunition APFSDS-T



Ammunition for sports and hunting



P20/P21 light compact semi-automatic pistol

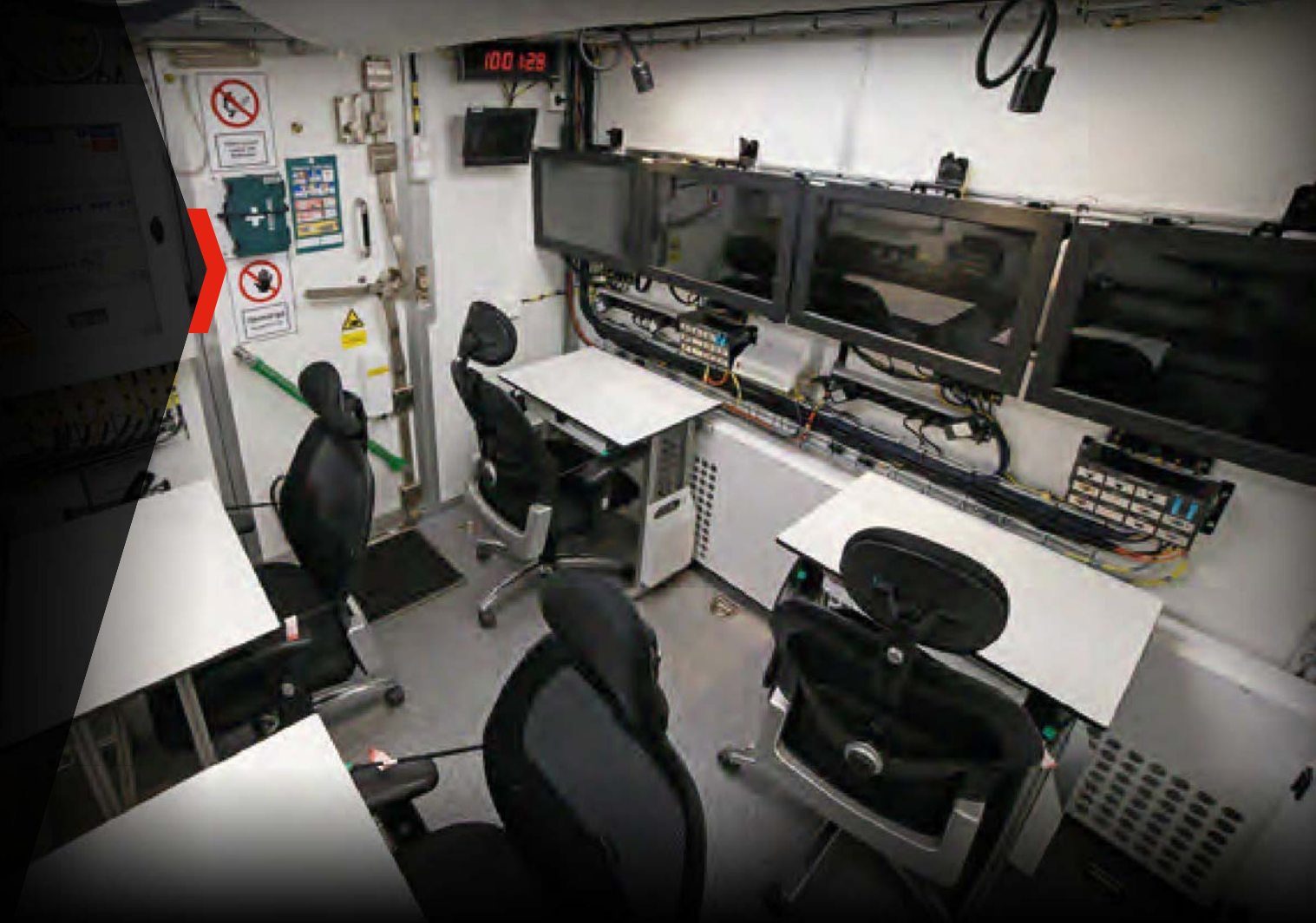


Design and construction,
civilian and military technology

VÝVOJ Martin a.s.

Specializing in innovation

- › Complete development solutions for design and construction of civilian and military technology.
- › A major player in the defence industry in Slovakia and throughout the world. Production and maintenance of wheeled vehicles and container equipment for armed forces and rescue services.
- › Secure ISO containers with integral power source and customized equipment tailored to individual requirements, mobile C2/C3/C4 systems, power sources for military equipment, servicing and modernization of military vehicles.



Production and development of civilian technology



ISO container with integral power source



TATRAPAN 8x8 container carrier



**european
air services**

A complete range
of aviation services

www.czechoslovakgroup.cz

EUROPEAN AIR SERVICES s.r.o.

Sales, modernization and training

- › Complete aviation support covering the procurement and sale of new and used helicopters and airplanes, establishment of spare parts supply chains and customers' in-house maintenance facilities. Operation and maintenance of aircraft for companies and individuals.
- › Standardized and custom-tailored training programmes for civil and military pilots, equipment operators and engineers – basic PPL/CPL training, type rating and advanced procedures, mission and tactical training.
- › Fleet of 16 helicopters for training, aviation services and VIP transport – MD-500E, S-300C, Bell 206, AS-355N, UH-60 and Tecnam P90.
- › Founding partner of the Slovak Training Academy – a centre of excellence for helicopter pilot training.



Advanced training



Basic PPL / CPL training



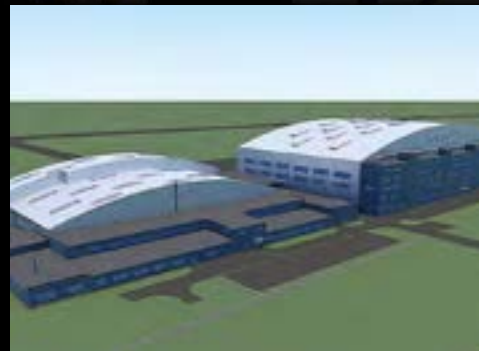
Aircraft sales and modernization

“Aircraft maintenance and repair,
cabin reconfiguration, aircraft conversion”

JOB AIR Technic a.s.

The largest Czech aircraft maintenance centre

- › One of the largest aircraft maintenance/repair hangars in Central/Eastern Europe. Capacity of up to 2 wide-body and 6 narrow-body aircraft at any one time. Basic and specialist training of aircraft mechanics.
- › EASA Part 145 and FAA approved maintenance centre, EASA Part 147 and Part 66 approved mechanic training organization.
- › Maintenance of Boeing 737 Cl and 737 NG, Airbus A320 family and Airbus A330.



“Active radars from Pardubice
control air traffic all over the world”



ELDIS Pardubice, s.r.o.

New generation radars

- › Airport surveillance radars, precision approach radars, Air Traffic Control systems.
- › Customized turnkey solutions for customers in more than 25 countries worldwide. All phases of the delivery process: Research & Development, production, software, installation, maintenance of equipment throughout its entire operational life.
- › ELDIS Pardubice radar systems are used by Czech Air Navigation Services at civil airports and by the Czech Ministry of Defence at military airports.
- › ELDIS Pardubice radar systems cover more than 90% of India's air space and control the vast majority of all commercial flights in India.



PAR-E precision approach radar



Air Traffic Control systems



RL-2000 / MSSR-1 collocated airport surveillance radar
RL-2000 / MSSR-1

RETIA, a.s.

Modern radar systems

- › Development, production and installation of radar systems, C4I systems for military use and localization systems for security operations. Integration of electronic systems into military vehicles. Modernization of obsolete radar and SAM systems. Partner in the production and installation of MADR 3D radar systems for the Czech Army.
- › ReDat recording systems deliver a complete solution for voice, image, data and HID recording and processing for ATM/ATC applications, contact and dispatch centres. The system offers advanced voice analysis, quality management and a wide range of integration options.
- › Customers include the Ministries of Defence of the Czech Republic, Vietnam, Slovakia, Finland and Poland; the Czech Rail Infrastructure Management Company; Telefonica O2, T-Mobile, and Vodafone; the Czech Integrated Emergency Services; and air navigation services in the Czech Republic (ŘLP), India (AAI), Morocco (ONDA), Algeria (ENNA), Poland (PAZP) and Spain (ENAIRE).



Modernization of P-18 radar



In-house R&D



ReDat recording system



CS-SOFT

Development of certified Air Traffic Management systems

www.czechoslovakgroup.cz

“An expert partner offering top-quality solutions”

CS SOFT a.s.

Development of Air Traffic Management systems

- › Develops, implements and maintains certified ATM systems (ACC, APP, TWR) meeting various end user's requirements with flexible delivery and high quality after-sales support. CS SOFT products, including ATCO Simulators, Tracker or CWS are designed both for civil and military use and comply with the highest demands for functionality, safety and reliability, which are defined by industry regulations.
- › An experienced team of experts and several development centres collaborating with leading Czech universities.
- › A wide range of customers around the world – including Czech Air Navigation Services, Oro Navigacija (Lithuania), the Israel Airports Authority and Slovenian Air Navigation Services.



ATCO Simulator



ATM system



Air-traffic Training centre tower workplace



Česká letecká servisní a.s.

Avionics integration

- › Unique cutting-edge European aerospace company providing a complete range of services for the integration of avionics systems and special equipment in civil and military aircraft and helicopters for domestic and international partners.
- › Complete turnkey solutions for sales, technical design, production, integration and certification – including warranty and after-warranty servicing.
- › Leading provider of modernization solutions for military aircraft and helicopter platforms in Central Europe.





Unique training centre for helicopter pilots



www.czechoslovakgroup.cz

Slovak Training Academy s.r.o.

Pilot training in Košice, Slovakia

- › Modern aviation technology combined with unrivalled professionalism of pilots, flight instructors and technicians.
- › More than 12 years' experience of providing aviation services. A complete range of training – basic, advanced, special training for civil and military personnel, aviation services, commercial air transport.
- › 16 helicopters and several flight simulators are available for best price-to-value aviation training. One of the types operated by STA is the Sikorsky UH-60 Black Hawk, which makes STA the only commercial operator of this type of helicopter in Europe.





Design, development and general engineering services



www.czechoslovakgroup.cz

New Space Technologies s.r.o.

Engineering, design and development centre

- › Complete technical documentation and subsequent 3D modelling using the latest technologies.
- › Optimization of structures to improve weight, production costs and production technologies. Complete development and production of manufacturing and mounting jigs.
- › Strength analysis (static, dynamic, fatigue) and aerodynamic analysis.
- › In-house development of the CANTAS UAV, which is capable of vertical take-off and landing. Four family members – CANTAS Ap, CANTAS A, CANTAS E and CANTAS S. Each type is designed for a different application, which is reflected in different endurance, speed and range parameters. All types are suitable for both military and civilian purposes.



Engineering office



Testing room UAV/GA



Innovative design in 3D CAD

Tatra available for everyone



TRUCK SERVICE GROUP s.r.o.

Tatra available for everyone

TSG in cooperation with production plant TATRA TRUCKS A.S. comes to the market with a new business concept.

- › Own financing of TATRA PHOENIX vehicles
- › Short-term / long-term vehicle rentals TATRA PHOENIX
- › Renovation of older TATRA vehicles
- › Purchase of older vehicles TATRA per contra account
- › Service of older TATRA vehicles
- › Sale of used TATRA vehicles
- › Sales of original TATRA spare parts



Export agency representing
Czech and Slovak companies
on international markets

EXCALIBUR INTERNATIONAL a.s.

Individual customized solutions

- › Large-scale international projects – including project funding.
- › Customized solutions designed to individual customer specifications – from delivery to after-sale services.
- › A full range of solutions – from delivery of individual products/services to complete investment projects in military and civil industries.



Complete logistics services



Land and airspace coverage



Complete equipment for armed forces

Main markets of Czechoslovak Group



www.czechoslovakgroup.cz





Partner companies

MGV 270

MCU 700



KOVOSVIT MAS
machine your future



VITKOVICE
VITKOVICE HEAVY MACHINERY

Partner
companies



KOVOSVIT MAS
machine your future

Production of machine tools

www.czechoslovakgroup.cz

“Comprehensive services, individual solutions,
unrivalled quality and outstanding service”

KOVOSVIT MAS a.s.

Precision, durability, service

- › KOVOSVIT MAS has almost eight decades of tradition as a machine tool producer. Its portfolio is targeted mainly at subcontractors in the automotive, power engineering, aviation and mechanical engineering industries.
- › Fully automated robotic production lines help minimize production time. Complete solutions from the planning stage to the final application. Operator training, technical support and maintenance, spare parts.
- › KOVOSVIT MAS offers its customers a complete range of services, with individual solutions, a flexible approach and products of unrivalled quality.



3-axis vertical milling centre



Multifunctional milling centre for hi-tech products



Hybrid technologies – 3D metal printing

Partner
companies



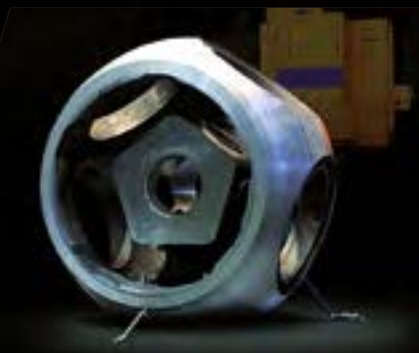
Castings, forgings and engineering
for heavy engineering

www.czechoslovakgroup.cz

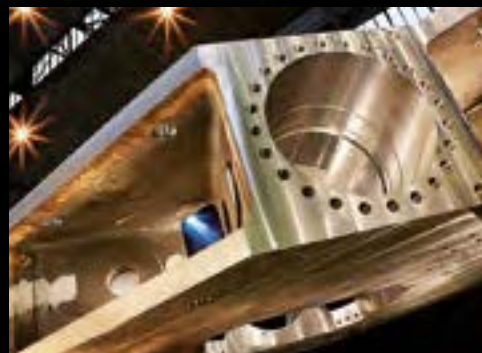
VÍTKOVICE HEAVY MACHINERY a.s.

A tradition that stands out

- › Since its establishment in 1828, the company has built an impressive reputation as an engineering partner with a global reach.
- › Our vision and experiences in the heavy engineering and energy industry do not only influence the Czech industrial environment, but also significantly influence global investment and development projects.
- › The company's product portfolio includes products for a wide range of industries – from deliveries of complete engineering solutions for steelworks, rolling plants, special heavy industry equipments, or surface mines, over castings and precision machined forgings for power engineering, shipping, steel, cement and mining industries to supply of raw ingots, forged bars and also rolled rims for rail and tramway transport.



Castings



Forgings



Engineering



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