

# Profile

MESIT has developed and produced highly specialised products and systems. Their quality is verified in the most demanding sectors, such as aviation or military industry. MESIT is one of the leading exporters and importers of aircraft and military equipment in the Czech Republic and a reliable supplier in international contracts. Extensive experience, traditional partnerships and dealerships in many countries allow us to implement demanding projects in the role of general contractor. MESIT companies have the professional capabilities for the realization of challenging tasks.



own development and testing  
in difficult conditions

certification for aircraft  
and military technology

specialised production

service and long-term support

**70**  
YEARS OF TRADITION

**800**  
EMPLOYEES

**7233**  
TYPES OF PRODUCTS

**34**  
COUNTRIES

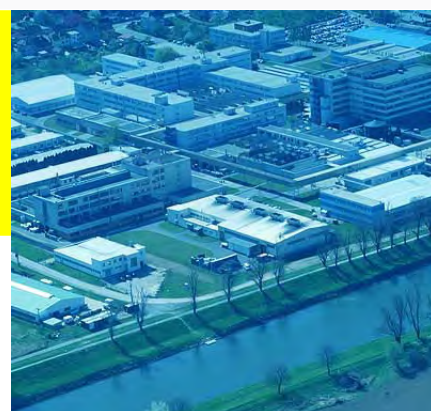
Foundation 1952

Number  
of companies 8

Location Uherské Hradiště, Čenkov (Czech Republic)

Owner OMNIPOL a.s.

**Activities** Aircraft instruments and systems, aircraft support, mechanical parts for aircrafts, tactical communication systems, modernization of airplanes and helicopters, systems for vehicles, specialised parts for transport systems, electromagnetic valves, PCB assembly, time measurement instruments, CNC precision machining, metal surface protection, production of precision castings, production of moulds, large-lot rotary machining, education.



Experience	Radio systems, voice and data communication, vehicular communication devices, fuel-level metering systems, electric power monitoring systems, heating and de-icing systems, cabin air temperature control systems, voltage inverters, thermocouples, instruments for the control of APUs.
Design and engineering	Applications with digital signal processors, high-frequency technology up to 1.5 GHz, microprocessor control technology and programmable logic circuits, switching power supplies and inverters, low-frequency technology including electro-acoustics, transportation control systems for public transport, on-board aircraft instruments, instruments for land vehicles, protection of electronic equipment against the effects of harmful radiation.
Projects	Instrumentation for <b>L159A and L159B aircrafts</b> , <b>ELMS601</b> - System for M601 engine condition monitoring, <b>Project CESAR</b> –Cost Effective Small Aircraft, <b>MISTRAL</b> - EV-55 Outback Instrumentation, <b>MOSTA</b> - Modernization of instrumentation for L410 aircraft, <b>ESYKA</b> - Effective air-conditioning system for commuters and helicopters, <b>LRO</b> - Lunar Reconnaissance Orbiter (NASA), <b>White Rabbit</b> - sub-nanosecond synchronisation and deterministic data transfer (CERN), <b>OPERA</b> - Oscillation Project with Emulsion-tracking Apparatus (CERN), <b>SIGMA</b> - Integration of the SHM to system for ensurance of the continued airworthiness of a small transport aircraft, Integrated Satellite and Terrestrial Navigation Technologies Centre, Research and Development of the Manufacturing Technology of Spacious Thin Wall Aluminium Castings.
Applications	<b>Aeroplanes:</b> L 410 UVP-E, L 410 NG, EV-55, EV-55, L39, L-59, L-159, L-159T1, L-39NG, MI17, MI171, Mi8, Z242, Z143, Z43, Z42... <b>Military vehicles:</b> PANDUR II, DINGO 2CZ, IVECO , LANDROVER, VT-72 CZ, TATRAPAN, TATRA BODVA, T-72 a T-54, BVP1-LOS, PzPK Sněžka , ShKH DANA, M3 Amphibious Rig... <b>Buses, trams, trolleybuses:</b> SOR, ŠKODA Electric, SOLARIS, CEGELEC, IVECO, EKOVA... <b>Train units and locomotives:</b> Regiopanter, Interpanter, 810, 842, 724, 730, 740, 770, 753, MVTV2...
Certificates	Certified Quality Management System according to ISO 9001:2016, ISO 14001:2016, AS 9100, AQAP 2110, EASA Part 145, EASA Part 21, regulation issued by the Civil Aviation Authority (CAA), Technical qualification certificate for suppliers of Czech Railways, Permission of the Ministry of Trade and Industry to carry out foreign trade of military equipment, National Security Authority certification.
Membership	ALV ČR - Association of Aerospace Manufacturers, AOBP ČR - Defence and Security Industry Association, HK ČR - Chamber of Commerce of the Czech Republic, MLK ČR - Moravian Aerospace Cluster.
MESIT members	MESIT holding, a.s., MESIT asd, s.r.o., DICOM, s.r.o., MESIT air, a.s., MESIT machinery, a.s., MESIT Facility Management, s.r.o., MESIT střední škola, o.p.s., MESIT & RÖDERS v.o.s.
Education	MESIT high school - We educate a new generation of electrical and mechanical engineering specialists in full-time and evening study programmes.
Ecology	We protect environment and safety. All MESIT manufacturing plants fulfil the strictest environmental impact standards.

# Aircraft and aerospace industry

The development and production of aircraft instruments is the main pillar of the Group since its founding. We cooperate with both military and civil research institutes and schools. We are reliable professionals; we provide verified technological solutions for civil and military aircraft of many types.

## Aircraft instruments and systems



Experienced developers, state-of-the-art technologies, powerful analysis and simulation tools – all these are prerequisites for our timeless and resistant solutions of aircraft instruments. You can rely on our technical support of the products throughout their life cycle.

## Mechanical parts for aircraft



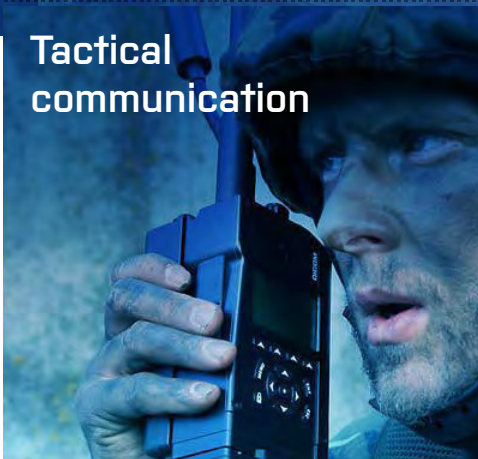
We supply investment castings for leading aircraft manufacturers in the world. The quality system is certified according to AS EN 9100, rev. C, for the aircraft industry. It is commonplace to supply machined castings, including heat treatment, surface treatment and non-destructive testing.



# Defence

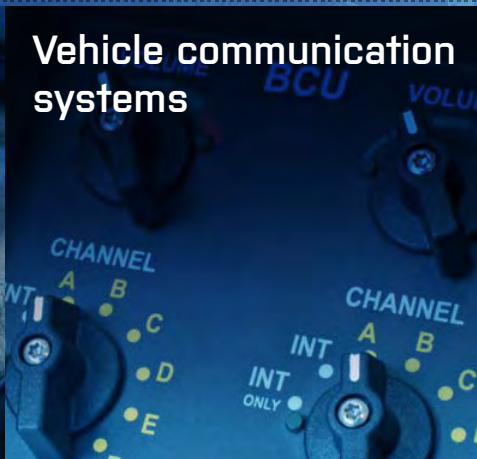
We are a reliable supplier of the armies worldwide. We develop and manufacture tactical communication systems, vehicle intercoms and headsets.

## Tactical communication



Comprehensive and interconnected systems of tactical communication for the support of command and control of military operations. Ensuring voice and data services with the use of superior radio communication technology.

## Vehicle communication systems



Development and production of several generations of vehicle intercoms and active noise reduction (ANR) headsets. Based on the needs of modern armies, we expanded our portfolio to include also tactical loudspeakers, extercoms and other devices.

# Transport industry

Our experience in the aircraft industry and military contracts makes us a reliable supplier of control systems and special parts for the automotive and transport equipment. The whole process including development, production and technical support meets the strictest criteria.

## Systems for vehicles

Vehicle manufacturers and users in the road and rail transport appreciate intelligent and reliable solutions. Our systems for measuring physical quantities, tachographs and monitoring devices meet the strictest technical and legislative requirements.

## Specialised parts for transport systems

Precision castings from aluminium alloys, production of plastic injection moulds and precise CNC machining are traditional sectors of the Group. Precision, quality and reliability are the basis for production of products that are used in supplies to the world's leading automakers and manufacturers of transportation equipment.

## Electromagnetic valves

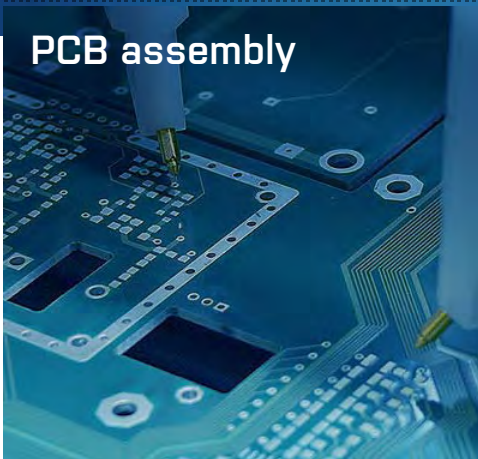
Development and production of electromagnetic valves tailor made to meet specific customer requirements for agricultural and tractor equipment and trucks.



# Electrical engineering

Highly demanding contracts that we perform for our final products within the MESIT Group, are a guarantee of the highest quality and professionalism for our customers.

## PCB assembly



High-quality equipment, elaborate manufacturing procedures, experienced and professionally skilled employees. Thanks to these prerequisites, we can perform contracts quickly and in high quality.

## Timer technology



Top-quality receivers of GNSS (Global Navigation Satellite System) signals, designed for time and frequency transmission. They are used especially in metrological laboratories for comparing time and frequency standards. However, they also find their use in all applications in which it is necessary to maintain a very precise unified time over large areas, e.g., in telecommunications.

# Mechanical engineering

Activities in the field of engineering meet the highest demands on contracts in the aircraft, military and transport technology industry. Thanks to our high quality and proven reliability, we are popular contractors for an increasing range of demanding domestic and foreign customers.

## CNC precision machining and large-lot rotary machining

Custom manufacture of small and medium-sized series of technologically demanding products from steel, aluminium and copper alloys, plastics and titanium. Precise CNC milling, turning and grinding, including manufacture of gear wheels of small modules. Large lots of rotary parts from steel, brass and aluminium, including processing semi-finished products delivered by the customers, on the quality technology of MANURHIN, MIYANO, TORNÁDO, NAKAMURA rotary CNC lathes and KIRA CNC milling centres.

## Metal surface protection

Quality of metal surface treatment verified in the aviation, army and top-quality electrical engineering industry. Galvanizing – zinc galvanizing, nickel galvanizing, tin galvanizing, anodizing, conversion coating, silver dip plating and copper dip plating. Wet painting, including filling, grinding and stoving.

## Production of precision castings and moulds

Production of precision castings from aluminium and copper alloys. We are an important European supplier of the most technologically demanding parts for the aircraft, electrical engineering and automotive industry, health service and optics. We produce moulds for complex technical pressed parts from thermoplastics, thermosets and rubber, in particular for demanding customers from the automotive industry.



# MESIT companies

## ELECTRONICS DIVISION



### MESIT asd, s.r.o.

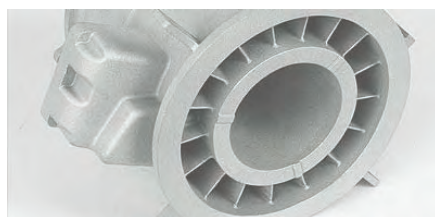
Devices and systems for the most demanding conditions. Aerospace, defence industry, transport and timer technology.



### DICOM, s.r.o.

Research and development (R&D) of tactical radiocommunication systems

## MACHINERY DIVISION



### MESIT machinery, a.s.

Aluminium castings. Precision CNC machining. Surface treatment of metals. Injection moulds. Production of technologically demanding parts.



### MESIT air, a.s.

Electromagnetic air valves. Large-scale rotary machining.



### MESIT & RÖDERS

Casting, tool machining.

## SUPPORT DIVISION



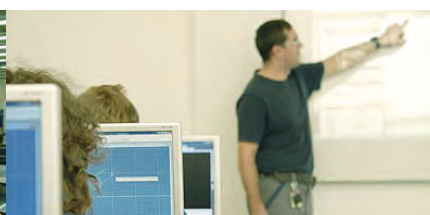
### MESIT holding, a.s.

Strategic management, controlling, human resources and occupational safety



### MESIT Facility Management, s.r.o.

Rental of manufacturing and warehouse space. Management of production infrastructure. Environmental protection.



### MESIT střední škola, o.p.s. (High School)

Electrical and mechanical engineering.