

HRVATSKI VOJNIK



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**SPECIAL
EDITION**



Croatian President and the Croatian Armed Forces Supreme Commander Ivo Josipović is going to visit the ASDA 2011

Adriatic Sea Defense and Aerospace exhibition (ASDA 2011) which is being held under the official support of the Government of the Republic of Croatia, will be opened by Croatian Prime Minister Jadranka Kosor



SPLIT, March 29-31, 2011





Dr. sc. Davor BOŽINOVIĆ,
Minister of Defence

Dear exhibitors and visitors,

On behalf of myself and of the Ministry of Defence, I welcome you to the Adriatic Sea Defence & Aerospace Exhibition, ASDA, which will be held in Split in the Spaladium Arena from the 29th to the 31st of March 2011. The main themes of the fair are armament and military equipment from all three branches of the armed forces, as well as protection and safety equipment. The exhibition was sponsored by the Croatian Government and organized by TNT Production Inc. from the United States.

This exhibition in Split represents an exceptional business opportunity for both domestic and foreign manufacturers of military equipment. We are pleased that our American partners have chosen Split as the best place in this part of Europe for organizing such an exhibition. With this exhibition, Split enters into the same circle as Paris, Moscow and Abu Dhabi. We believe that this exhibition will permanently place Split on the map the world's largest organizers of exhibitions of this kind.

The significance of this international exhibition is manifold. It is primarily of economic significance, as industry of this kind is increasing. The exhibition is a great opportunity to learn about the latest developments in defence technology, about the deepening of military-technical cooperation, and to promote the military industry. It is also a good opportunity for bilateral meetings and for making business contacts.

Finally, I wish all exhibitors a successful show and invite all who are interested to visit the ASDA exhibition and familiarize themselves with modern developments in leading defence technology.



Zoja CRNEČKI,
 Industry and Technology
 Department Managing Director,
 Croatian Chamber of Economy

Croatian defence industry has a task to maintain Croatia's defence potentials and improve the military capabilities of its Armed Forces. That is why Croatian arms and military equipment producers put in significant efforts in order to produce products which are of great quality as well as competitive.

Some producers come from a long tradition in this industry whereas most of them have developed their production based on their previous work connected with civilian needs. This has been done out of necessity and urge to defend the Republic of Croatia during the Homeland War. After the combat activities in Croatia had finished, the producers who had created competitive products of good quality continued manufacturing arms and military equipment. Keeping up with the development of defence products and technology, Croatian manufacturers have been perfecting their products on a regular basis and developing new ones following global standards and trends. Today, they are becoming respected arms and military equipment producers that have proven their capabilities in Croatia and abroad. Croatian defence industry's export activities are increasing each year, while following all the regulation in military equipment export control.

An Affiliation of Producers of Special Purpose Resources was established at the Croatian Chamber of Economy in 2003 and gathers around forty Croatian companies producing arms and military equipment. This is a place of information exchange among the members, as well as a place where joint positions are being created to enable joint participation in domestic and international tenders.

We are facing new challenges in the years to come. Defence budgets are being cut down and extra efforts will have to be invested in order to keep the Croatian products competitive. New military doctrines are being weathered out which, consequently, require new defence products. Croatian accession to the European Union brings a need for adjustments of domestic production potentials to the European Intelligence and Defence Policy goals. Nevertheless, we strongly believe in the success of the Croatian defence industry in overcoming challenges that lie ahead.



International Defense Industry Fair in Split

ASDA – ADRIATIC SEA DEFENSE

Programme of activities during ASDA 2011 Defence Exhibition

March 29, 2011

10.00 – Opening of the Exhibition

Small hall of the Spaladium Arena

10.30 – Tour of the exhibition area by high delegations

Big hall of the Spaladium Arena

11.30 – 12.00 Demonstration exercise by the Croatian Navy and Special Operations Battalion "Sv. Nikola" Barracks, Poljud small port

March 30, 2011

10.00 – 13.00 – International Conference: "Building modern defense capabilities – Crossborder cooperation, pooling and sharing"

Poljud Congress and Restaurant Centre (ex Officer's Club)

Exhibition hours:

March 29, 2011 12.00 p.m. -17.00 p.m.

March 30, 2011 10.00 a.m. -17.00 p.m.

March 31, 2011 10.00 a.m. -15.00 p.m.

www.morh.hr

ASDA 2011 is a decided three-service defense equipment exhibition. More than 130 companies from 23 states are expected to participate at the exhibition. ASDA 2011 is organized by TNT Productions Inc., a US company specializing in organization of international exhibitions. The exhibition is organized with the official support of the Government of the Republic of Croatia and the Ministry of Defence is providing support to the event which takes place in Spaladium Arena in Split.

TNT Productions managing director, Mr. Justin Webb summed up the exhibition's goal as "... a strategic and direct contact between the exhibitors and participants". He has noted that the global defense industry comprises of producers in the fields of high technologies, electronics, software, computer security and high-precision production and development. "A gathering of world's leading companies in Split can contribute to the creation of associations with local entrepreneurs in production initiation processes. Furthermore, it creates possibilities to attract highly technological businesses in Croatia" – said Mr. Webb.

Among many exhibitors at ASDA, two great global fighter jet producers stand out. Eurofighter GmbH is a European consortium that manufactures the Eurofighter Typhoon, a fourth generation fighter jet. It has entered operational use in the air forces of Germany, Great Britain, Italy, Spain, Austria and Saudi Arabia. The second great producer is Saab, the Swedish producer of the fourth generation fighter jet JAS 39 Gripen, commonly used by Swedish, Czech and Hungarian air forces.

In addition to these two, there are many other companies exhibiting at ASDA. Elbit Systems Ltd is one of the leading companies in aerospace, land and naval systems, command-information systems and they also make the Skylark – a mini unmanned aerial vehicle. The US company Air Tractor, manufacturer of AT-802AF firefighting aircraft which is in use in Croatian Air Force is also participating.

There are many leading global companies participating among the producers who work with the Army systems. BAE Systems is presenting a family of its medium tactical vehicles (FMTVs). These army trucks are the basic medium vehicle for the US Army logistic support. Over 50.000 FMTVs have been delivered so far, in over 20 versions, ranging from 2.2-ton to 11.8-ton trucks.

A German company Krauss-Maffei Wegman is presenting its ATF Dingo vehicle. It is an armored vehicle based on Unimog terrain truck's chassis with a V-shaped hull. It is designed to withstand land mines, rifle fire, artillery fragments and NBC-threats. The Dingo's standard armament is a remote controlled Rheinmetall MG3 machine gun turret. The 7.62 mm MG can be replaced with a 12.7 mm MG or a HK GMG automatic grenade launcher.

Another exhibitor this year is Land Rover. They are presenting the Defender, their world-famous four-wheel-drive model. In addition to their standard 4x4 line, Land Rover is going to present a new, 6x6 increased capacity model.

Also, the French Panhard, a well-known military vehicles manufacturer is exhibiting their VBL (Vehicule Blinde Leger) armored vehicle



AND AEROSPACE EXHIBITION

which has been produced in over 2.300 units and is being used in 16 countries. Panhard has produced over 18.000 military wheeled vehicles which have been sold in over 50 countries.

Iveco Defence Vehicle Company from Bolzano, Italy has already produced over 30.000 military vehicles which are being used worldwide. At ASDA 2011 they will be presenting their solutions for the new vehicles and their protection. Under the sea defense theme we are going to see one of the biggest shipbuilding companies – F.R. Lurssen from Germany. This company makes fast attack crafts, mine destroyers and corvettes. Atlas Elektronik Company, which is one of the leading companies in naval electronics and sonar systems, is also participating in this theme.

In the same theme we are going to see Damen Shipyards which has 30 production plants around the world. Also, Austal, an Australian shipyard will have a display. They build LCS innovative aluminum

trimarans, among other things, which are about to enter US Navy official use.

Furthermore, ITT Corporation, one of ten largest US companies in the defense field is also participating. Kongsberg Defense & Aerospace, a Norwegian manufacturer of remote weapon stations and anti-ship missiles is also exhibiting. Next, exhibition visitors will be able to visit the stands of MBDA, a global leader in different missiles systems and of the French Thales Group displaying information systems and services for the aerospace, defense and security markets.

Rafael Advanced Defense Systems Ltd is the manufacturer of Spike, an anti-tank guided missile used in infantry, on fighting vehicles, helicopters and vessels. L-3 WESCAM is presenting their gyroscope-stabilized imaging system for detecting and identifying which is used for tasks such as border or important facilities protection.

ASDA 2011 is also an opportunity to present numerous Croatian defense

industry companies. DOK-ING, de-mining and firefighting machines producer is one of them. They export their products to more than 30 countries. There is also Duro Daković Specijalna vozila, a company that builds AMV 8x8 vehicle in cooperation with the Finnish Patria. These vehicles are being built for the Croatian Armed Forces. In addition, HS Produkt, manufacturer of the worldwide famous HS pistol and the new NATO standardized VHS assault rifle is participating.

Another Croatian company at the exhibition is Šestan-Busch, a company whose protective helmets are being used in over 25 countries. Adria-mar Shipyard which specializes in design, construction and repair of naval vessels and special purposes vessels and the equipment used on them is also participating. There are a number of other Croatian companies at ASDA 2011, including Brodarski Institute which is presenting their project of a reduced vibrations fast ship.

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EXHIBITORS

AUSTRALIA

AUSTAL Shipyards
GLOBETrekker

AUSTRIA

Diamond Aircraft Industries GMBH
Pewag Scheeketten GmbH & Co. KG
Spinner

BELGIUM

Seyntex

BULGARIA

Optix Co

CANADA

L-3 Wescam

CROATIA

Adria-Mar Shipbuilding Ltd.
Agencija Alan
American Chamber of Commerce in Croatia
Benne Valette d.o.o. "Botteri Boats"
BERTA PROJEKT
Brodarski institut
Brodogradilište Kraljevica d.d.
BSO Brodosplit
Cerberus d.o.o.
DAT-CON D.O.O.
DOK-ING
Đuro Đaković Specijalna vozila d.d.
FER-Laboratorij za podvodne sustave i tehnologije
FER - Fakultet elektrotehnike i računarstva Sveučilišta u Zagrebu
Fujifilm
G.T. Automobili d.o.o.
Galeb d.d.
Gavrilović
GEOFOTO
GHR-CHD Grupacija za humanitarno razminiranje u inozemstvu
HS Produkt
HSM informatika d.o.o.
Hidraulika Kurelja d.o.o.
I&I d.o.o.

INKOP

INsig2 Ltd.
IRB Lair
INSTITUT RUĐER BOŠKOVIĆ - LAIR
ISL Spreewerk d.o.o.
Jacquard
JLM Perkovic
Kraljevica Shipyard Ltd.
KROKO
Luveti
MA-RA
Metallic
Montmontaža - Greben d.o.o.
NCP Repair Shipyard
NISSAN
Novi Link
Podravka d.d.
Pomorski centar za elektroniku
REDTECH d.o.o.
RIZ PE d.o.o.
SCAM Marine
Šestan-Busch
Tehnomobil d.o.o.
TEHNOMONT Brodogradilište Pula d.o.o.
TEKSKO MREŽA
TEMAKS HR
U.S. Commercial Service Croatia
Werkos d.o.o.
Zaštita Magazine
Zrakoplovno-tehnicki centar d.d.

CZECH REPUBLIC

Beatronic Supply
Česka Letecka Servisni A.S.

DENMARK

Reson

FRANCE

MBDA Systems
Panhard General Defense
S.E.R.T France
THALES France

GERMANY

Atlas Elektronik
Bruker Daltronik

Cassidian

Cobham Surveillance GmbH
Eurofighter Jagdflugzeug GmbH
F. R. Luerssen
Fujinon
HECKLER & KOCH
Karcher Futuretech
Krauss Maffei Wegman GmbH & Co. KG
Panasonic Marketing Europe GmbH
Rheinmetall MAN Military Vehicles (RMMV)

HUNGARY

Panasonic Marketing Europe GmbH

ISRAEL

Elbit Systems
RAFAEL

ITALY

EDISERVICE SRL
Eurofighter GmbH
FIRECO SRL
IVECO Defence Vehicles
JP4
Panorama Difesa
Selex Sistemi Integrati SPA

NORWAY

Kongsberg Defence & Aerospace
NACRE

POLAND

Dom Samochodowy Germaz SP z.o.o.

ROMANIA

Axis & Associates
IPCE-CA S.A.
Motexco Romania
National Company ROMARM S.A.
PRO OPTICA
ROMAERO S.A.
ROMANIAN MINISTRY OF COMMERCE
ROMCARBON S.A.
ROMTEHNICA S.A.
SYSCOM 18 SRL
TNT Productions Romania SRL

SLOVENIA

AREX d.o.o.
EM.TRONIC d.o.o.
PERIGON d.o.o.

SPAIN

Air Tractor Europe
AIRBUS Military
FAM

SWEDEN

Saab/Gripen

SWITZERLAND

CRYPTO AG
RUAG AG
RUAG Aviation
RUAG Defence
Vectronix

THE NETHERLANDS

DAMEN Shipyards

UNITED KINGDOM

Avon Protection
BAE Systems
Cobham LTD
L-3 Communication TRL
Land Rover
Pearson Engineering

UNITED STATES OF AMERICA

Air Tractor
ARMALITE Inc
INSIGHT TECHNOLOGIES
ITT Corporation
NORSAT International
Otis Technology
Prism Lighting Services LCC
Small Arms Defense Journal
Snap-on Tools International
TNT Productions, Inc
U.S. Embassy – Commercial Department in Zagreb

Source: Organizer

ADRIA-MAR SHIPBUILDING

Adria-mar Shipbuilding Ltd. specializes in design, building and repair of special purpose and naval vessels, and equipment.

Business strategy

Flexibility in cooperation with our customers. Our goal is to define the design objective together with our customer, offering expertise in process.

Quality in performing design, shipbuilding or ship repair task in a reasonable time period.

Long term relationship with our customer through lifetime service and support.

Quality management and quality assurance policy in accordance with EN ISO 9001

Our Team

Every project in our company is carried out by special taskforce assembled for the purpose. We are a team of young and experienced naval architects, marine engineers, and mechanical and electro engineers.

External cooperation

In accordance with our market strategy we consult our partners for service whenever it is necessary. We successfully cooperate with companies and institutions that are prominent in their field of work.

Our Capabilities:

- Design, building and repair of special purpose and naval vessels,
- Design, building and repair of special ship equipment,
- Overhaul of navigation and communication equipment,
- Overhaul of weapon systems (rocket bays, guns),
- Engineering and consulting services,
- Participation in general design, feasibility studies, expert studies, project management and project supervision.



Current projects

OPB31 – patrol vessel

- Length: 30 m
- Speed: 30 kn
- based on PV30-LS project
- S&R duties, EEZ control

OPB39 – patrol vessel

- Length: 39 m
- Speed: 30 kn
- Patrol, S&R duties, EEZ control
- extended mission duration

OPV60 – offshore patrol vessel

- Length: 60 m
- Speed: 27 kn
- EEZ control
- monitoring of sea traffic
- law enforcement duties

References

Patrol vessel PV30-LS;

- 6 units
- Year: 2006 - 2008
- Length: 30 m
- Speed: 30 kn
- Installed power: 2 x 1680 kW
- Commission:
 - Complete design and building of six (6) vessels
 - Crew training

LSTH ships Ibn Haritha, Ibn Ouf

- Year: 2008
- Length: 100 m
- Installed power: 2 x 3350 kW

- Armament: 3 x 2/40mm
- Commission:
 - Repair estimates
 - Overhaul including weapons and C3I systems

Combattante IIG class ship Laheeb

- Year: 2008
- Length: 50 m
- Installed power: 4 x 2000 kW
- Armament: 1 x 76 mm, 1 x 40 mm
- Commission:
 - Repair estimates
 - General overhaul including guns, rocket bays and C3I systems

Hydrographic boat HV01

- Year: 2008
- Length: 8 m
- Propulsion: Jet
- Commission:
 - Design and delivery of boat and hydrographic equipment
 - Crew training

Class rescue vessel AI Munked

- Year: 2006
- Length: 60 m
- Commission:
 - Repair estimates
 - General overhaul including hydrographic equipment, diving bell, rescue submarine, pressure chambers and C3I systems

ALAN AGENCY



Alan Agency is an Agency of the Government of the Republic of Croatia, established for import and export of defence equipment. Alan Agency represents Croatian producers and facilities for defence product segment:

- Import & Export of armament for Army and Police requirements
- Import & Export of armament for commercial purposes
- Sale of army stock surpluses
- Marketing & Market research of production & trade of armament

- Consulting and agency for production and trade of armament
- Agency, mediator and representing activities
- Agency for 'offset' arrangements for



production & trade of armament

- Technology Transfer
- Import-, Export-, Transit Licences mediator services
- Representing Croatian defence product facilities and

producers on international market
Alan Agency is an agency of the Gover-

ment of the Republic of Croatia, established for import and export of defence equipment.

By establish-

ing Alan Agency the Government of the Republic of Croatia remained strict to the

implementation of its transparent policy, by insisting to keep the defence equipment trade transparent and in accordance with the adopted international obligations.

Alan Agency's main task is to create material conditions for increasing efficiency of the armed forces of the Republic of Croatia. With its performance, Alan Agency searches for optimal ways of exploiting financial resources for purchase of defence equipment.

Alan Agency constitutes the meeting point for producers and potential international buyers of armament and military products. Alan Agency acts as an agent in contracting, technology transfer and international technical co-operation regarding armament.



BOTTERI BOATS

For those who know and want to feel a pure pleasure of speed on water.

Small and fast (55 mph), light and adequately built for special tasks of patrolling the rivers and calm waters.

Simple and easy to transport, practically invisible, this boat provides a great element of surprise. The boat is easy to camouflage which makes it concealed.

A large variety of customization is available at clients' request.

It can be fitted with an internal jet boat engine of a far greater power which builds the performance up to 20-30% and reaches top speed of between 70 and 80mph which represents top speed on water. At the same time, fuel consumption is minimal. A trip from Croatian to Italian coast would last no more than two hours in such a boat, which is without a doubt a record time. Surveillance of territorial waters becomes complete using this boat.



There isn't a naval vessel which can escape its watch.

Botteri B 360 is a speedboat constructed, produced and tested for extreme conditions. World champion and world speed record holder W. Smith once said, commenting on Botteri B 360, that it is a supremely well constructed speedboat whose design, hydro and aerodynamics show it is capable of achieving top performance. Mr. Smith added that the boat's design reminds him of the speedboats he drove when setting world records!

Botteri B360 R is the official racing speedboat for the future "Croatian National Championship" races.

BRODARSKI INSTITUTE

Brodarski Institute is a company owned by the Croatian Government and it is represented by three ministries – Ministry of Defence, Ministry of Science, Education and Sport and Ministry of Economy, Labour and Entrepreneurship. The Institute was founded in 1948 as a leading institution in the field of industry, science and technical systems. Since then, the Institute has developed its own military technology and has promoted the science and technology as originators of social and economic development.



As a leading institution for design and development of underwater and surface vessels, the Institute has designed and tested the submarines of the Heroj Class, Sava Class and Una Class, the midjet submarine Velebit and missile corvettes Kralj Petar Krešimir IV and Kralj Dmtar Zvonimir. The Institute has also designed missile corvettes of the Končar Class, frigates of the Split and Kotor Class, and the mine countermeasures vessel Korčula. In addition, Brodarski Institute has designed an underwater mine against surface and underwater vessels, fast patrol crafts of the Mirna Class, amphibious vessels and various other ships and vessels for the Croatian Navy. The most recent project for the Navy is a 40-meter-long patrol boat whose construction is soon to commence.

In September, 1991, Brodarski Institute was peacefully integrated into the system of Republic of Croatia preserving all of its human, laboratory and technical capacities. During the Homeland War, the Institute was developing fighting and logistic vehicles for the Croatian Army. Over 80 projects were completed in the process of arming the Army. After the Homeland War ended, the Institute was transformed into a limited liability company and it started transforming its knowledge in military technology into commercial activities. Today, two thirds of the Institute's business activities are market oriented. The latest activities of the Institute are oriented towards civil shipbuilding engineering, control engineering in hydro power facilities, renewable energy sources and environmental technologies. Hydrodynamics laboratories of the Institute are among best equipped laboratories in all of Europe, featuring two 300-meter towing tanks.

Brodarski institut is also active in many EU and research funds funded projects and it is a member of European Association of Research and Technology Organisations (EARTO). In its long history, the Institute has gone through many stages of development. The continuity throughout those times was maintained by its experts and scientists.



170 people are currently employed with the Institute, the majority of whom are engineers of shipbuilding, ship engineering, mechanical engineering, electrical engineering, metallurgy, physics, chemical engineering, industrial design and experts of other specialties. Great efforts are being invested in education and internship of young people in the Institute. There are currently 27 employees undergoing postgraduate doctoral studies or vocational studies. Professional references in the field of science which our employees hold, their skills and experience, and the equipment, enabled Brodarski Institute to become a science and expert centre of Croatian economy.

Projects

Fast Missile Corvette Kralj Petar Krešimir IV

Displacement (full load)	382 t
Dimensions	53.6 x 8.6 x 2.7
Propulsion	3 M504B-2, diesel engine, 11033 kW MCR,
Speed, max.	36 knots
Complement	33
Armament	8(4) SSM Saab RBS15 1 Bofors SAK 57 mm D70 1 AK-630 30 mm
Fire control	Philips PEAB 9LV 249 Mk2
Navigation	Racal-Decca BT 502
Built in	Kraljevica Shipyard

Inshore mine countermeasure vessel "Korčula"

Length over all	25.65 m
Displacement	173 t
Hull breadth	7.08 m
Draught	2.64 m
Speed, max.	11 čv
Range	1,000 nm at 9 knots
Complement	14
Main machinery	2 MTU 8V183TE62, 365 kW each 2 Holland Roerpropeler stern azimuth thrusters 140kW bow thruster
Gun	1-20 mm M71
Minehunting	1 Super Sea ROVER (Benthos)
Minesweeping	MDL3 mechanical sweep
Radar	Qubit Kelvin Hughes 5000 ARPA, NINAS Mod.
Sonars	Klein 2000
Built in	Montmontaža Greben Shipyard

KRALJEVICA SHIPYARD

The **KRALJEVICA Shipyard, shipbuilding and ship-repairing company, is the oldest shipyard on the eastern coast of the Adriatic Sea.** The continuity of shipbuilding tradition in KRALJEVICA has been lasting uninterrupted since 1729.

The KRALJEVICA Shipyard ranks, in view of its capacities, among medium-sized shipyards (~ 500 employees, area ~ 110,000 m²).

The Shipyard's activities are organised in three main groups:

New building of ships up to 120 m in length and 21 m in beam, up to 10.000 DWT (tankers, dry cargo vessels, Ro-Ro vessels, multipurpose/container vessels, paper carriers, passenger/car ferries, tugs, supply vessels) and other marine constructions.

New buildings, retrofitting and repairing of naval vessels (gun boats, patrol vessels, missile corvettes), coast guard boats, special-purpose ships, fast crafts, light commercial crafts and yachts, built of ordinary or high strength shipbuilding steel and aluminium.

Retrofitting and repairing vessels of up to 25.000 DWT, conversions and modernisation, general repairs, hull repairs, electronics, main and auxiliary engines, generators, electric motors, boilers, automation, etc.; quick underwater hull inspection, hull cleaning and corrosion protection; all kinds of measurements with analysis etc.

One of the main activities of the Kraljevica Shipyard in the past was construction and repair of naval ships, always complying with the highest standards in building various naval unit types, such as multirole patrol vessels, coast guard boats, fast attack crafts, torpedo boats, missile gunboats, landing craft, bar-



ges, tankers and frigates, made of ordinary or high strength ship building steel or aluminium.

KRALJ PETAR KREŠIMIR IV. AND DMITAR ZVONIMIR

The two ships of which we are particularly proud are the first naval vessels built for the Croatian Navy, the modern guided missile gunships R3, "Kralj Petar Krešimir IV" and "Dmitar Zvonimir". They are small, but heavily armed naval units and are designed to be a flagships of the assault naval forces. They can



Length, overall:	53,60 m
Normal displacement (50% fuel and water supplies):	350 t
Maximum cruising speed:	32,5 kn
Maximum navigation range up to:	1700 n.m.

operate as a standalone naval units or as a battle group leaders. Their main maritime capabilities, i.e. speed, maneuverability, seaworthiness, stability, operating range and autonomy, were tailored specially for the Adriatic Sea, both in terms of maritime and naval warfare environment. In order to enable them to fulfill their tasks with a minimal logistic support for a prolonged period, the units have been designed to give their crew an enhanced comfort, ample supplies and an ability for the crew to perform minor repairs on site.

BELING

- engineering, consulting and distribution of the best global manufacturers' equipment
- professional radiocommunication equipment

- audio/video surveillance for special application – covert surveillance
- countersurveillance equipment
- interception
- police equipment



BRODOSPLIT - NAVAL & SPECIAL VESSEL SHIPYARD

“BRODOSPLIT – NAVAL & SPECIAL VESSEL SHIPYARD is one of the subsidiaries of BRODOSPLIT Holding company, and is equipped to design, construct, equip and test large scale of naval and special vessels, from sophisticated warships and submarines to logistic ships, Search & Rescue Vessels and Coast Guard Patrol Vessels.

BRODOSPLIT- BRODOGRADILIŠTE SPECIJALNIH OBJEKATA also has all the facilities necessary to carry out repair, overhaul and maintenance of naval and special purpose vessels. With our skilled engineers and workers we are ready to respond to every request for a modern and efficient naval project.”



Delivered vessels for our

Navy and export :

- Conventional torpedo submarines – 2 pcs.
- Midget submarines – 6 pcs.
- Diver's submersible Type R-1 and R-2 – 18 pcs.

- Multipurpose transportation ships – 3 pcs.
- Landing-minelayers – 3 pcs.
- Training ship - fregate – 2 pcs.
- Shippainting station – 12 pcs.
- Fuel barge – 4 pcs.
- Search & Rescue vessel – 4 pcs.
- Search & Rescue craft – 3 pcs.

DAT-CON

Dat-Con is a company which has been on the market for 19 years and in that time managed to become an exceptional provider of system integration, electronic applications, special measuring and multimedia equipment used in law-enforcement and defense.

The partnerships we established with market leaders in thermal imaging, optics, measuring equipment and communications, such as FLIR, SAGEM, ATN, POLIMASTER, AS&E, MISTRAL, ARGUS and others, opened new paths for the company's development. We made a successful entry into the European and worldwide markets through active participation in international tenders and



thus managed to make a contribution to the surveillance of many state borders and protected facilities by integrating our own system solutions and special equipment.

We would especially like to point out mobile thermal imaging systems (surveillance vehicles customizing), mobile and fixed surveillance systems, Hovercraft SR-81 rescue craft, Golt 20 GPS tracking device, VK-008 case for transfer of money



and other valuables, document control devices, and many other solutions and products.

Our system solutions are based on many years of experience, lasting research, contribution to the institution of knowledge and suggestions and needs of the end-users. For those reasons we are confident that our solutions contribute to overall security and protection on a daily basis.

CERBERUS

Cerberus Company Ltd is the owner of Croshield® brand founded in 2006. In the early beginning, the product range comprised of only a few models of ballistic vests and until today it has expanded on additional ballistic equipment: helmets, visors, plates and tactical equipment as well as textile which we procure from world-known manufacturers. Even though the brand was founded on highly competitive market, constant investment in quality and furtherance of our visual identity were the best policy for becoming a synonym for the best quality ballistic protection on Croatian market. We plan to implement the success and high goals achieved on our territory on the foreign markets as well, and expand the well-known brand. The company and brand are 100% in Croatian ownership.

High potential of our brand was recognized by the Dutch company DSM – the owner and manufacturer of the world's strongest fiber - Dyneema® - with whom we have accomplished a very successful business cooperation. Following the mentioned coo-

peration, Cerberus Ltd is among the first manufacturers of ballistic vests in the world that can offer its clients ballistic inserts made of Dyneema® SB51 fiber – just developed by DSM experts. Dyneema® fibers are known as the world's strongest fibers and that term is fully substantiated with certificates we acquired from a licensed laboratory for testing and analysis of personal ballistic protection: TNO Defence, Security and Safety from Netherland. TNO is also strategic partner of the Dutch Ministry of Defence and as a such it is fully equipped and trustworthy for issuing the mentioned certificates we possess for Croshield® ballistic vests and enclose with every delivery of our products.

Design and functionality of Croshield® products are highly represented by our development team that provides users information in the minimum latency regarding the individual design of ballistic vests which positions us next to the leading world manufacturers of ballistic vests.

CROSHIELD® COMFORT CS 50

Model Comfort CS 50 is a specially designed ballistic vest with a fastener on the front side – it looks like a regular vest, but it provides protection of front, lateral and side of the user's torso. Very comfortable even after long-term wearing.

Product description:

- textile part made of material polyester or Cordura®
- ballistic inserts made of Dyneema® SB21 or SB51
- ergonomic cut supports any movement during the standard tasks of the user
- easy handling of the fastener ensures fast opening of the vest when the user is sitting or driving
- two large pockets for storage on the front side of the vest are closed by thistle
- ballistic inserts are separable for easier maintaining of the textile vest
- standard color black, others on customers request
- sizes S/M/L/XL/XXL and custom made

CROSHIELD® MOLLE CS 75

The vest is intended for helping the army in accomplishing the most demanding tasks and it is made of high quality materials. The vest provides front, lateral and back side protection and it has removable neck and genitals protection.

Product description:

- textile part is made of Cordura® 1000D or 1500D
- ballistic inserts are made of Dyneema® SB21 or SB51
- fully covered with Molle mesh – easy application of different holsters
- embedding ballistic attributes for arms – on request
- embedding the equipment carrier – webbing system - on request
- possibility of individual adjustment to the user's body
- plate pockets (25x30 cm) on the textile vest – on request
- sizes S/M/L/XL/XXL and custom made

CROSHIELD® SECURITY MOLLE CS 55

Security Molle CS 55 for security personnel is covered with Molle mesh so the user can apply gun holster, radio or mobile device pouch on it. The vest provides protection of front, lateral and back side of the user's torso. Molle CS 55 has an ergonomic cut which is fully adjustable to the user's body and is also very modernly designed.

Product description:

- textile part of the vest is made of polyester or Cordura® 750D
- ballistic inserts made of Dyneema® SB21 or SB51

- upper thistle on front side intended for client's logo application
- the vest closes with wide thistle that ensures firm fitting
- ergonomic cut
- Molle mesh sewed on the vest and in the shoulder area – for easy application of different holsters or pouches
- ballistic inserts are separable for easier maintaining of the textile vest
- standard color navy blue, others on customer's request
- sizes S/M/L/XL/XXL and custom made



CROSHIELD® SWAT

Croshield® Swat ballistic vest has a practical and flexible design integrated with excellent ballistic protection. The protective plates can be inserted in the pockets that are embedded in front and side of the vest. The vest has additional equipment that can be delivered on client's request: removable shoulder and neck protection, genitals protection and upper arm protection.

Product description:

- textile vest is made of Cordura® 500D, 1000D and 1500D

- ballistic inserts made of Dyneema® SB21 or SB51
- inserting ballistic protection of arms, genitals and shoulders – on request
- ballistic inserts are separable for easier maintaining of the textile vest
- thistle sewed on front and back side is used for application of ID card, print of a logo or a name
- pocket embedding for ballistic plates (25x30 cm) – on request
- standard color black, others on customer's request
- sizes S/M/L/XL/XXL and custom made

DOK-ING

DOK-ING is a privately owned Croatian company and one of the international leaders in the production of mine clearance systems and other special purpose robotic vehicles. Additionally, DOK-ING Demining is the largest private humanitarian demining company in Southeastern Europe. The company is ISO 9001:2008 certified and is capable of providing custom-made solutions for customers around the world. The DOK-ING headquarters and main production facilities are located in Zagreb, Croatia in a 15,172 m² facility. An additional 14,000 m² facility is located in Slunj, Croatia. To support its global operations, DOK-ING maintains offices in the United States and South Africa.

MINE CLEARANCE SYSTEMS

The MV-4 Mine Clearance System is a tracked, remote-controlled machine designed to clear all types of anti-personnel (AP) mines. Due to its small dimensions and maneuverability, it is suitable for demining housing areas, forest paths, river banks, and other types of terrain that are inaccessible to larger machines. The MV-10 Double Tool Mine Clearance System is designed to clear various types of terrain containing anti-personnel (AP) mines, anti-tank (AT) mines, and unexploded ordnance (UXO). Due to its exceptional power and high clearance rate, the MV-10 is suitable for mine clearance of large areas contaminated with all types of mines and UXO.

HUMANITARIAN MINE CLEARANCE

DOK-ING Demining is the largest commercial humanitarian demining company in Southeastern Europe and has the capacity to perform mechanically assisted mine clearance of approximately 1,000,000 m² per month.

MULTI-PURPOSE FIRE FIGHTING VEHICLES

The MVF-5 Fire Fighting System will help firefighters and other emergency personnel do their job in the most challenging and dangerous conditions. The remote-controlled, tracked vehicles will deliver a significant payload to the source of the blaze without risk to human life. The areas of use include: Oil refineries, chemical plants, chemical storage areas, nuclear power stations, and other high-risk areas.



ĐURO ĐAKOVIĆ SPECIJALNA VOZILA



ĐURO ĐAKOVIĆ SPECIJALNA VOZILA d.d. (DDSV) operates within Đuro Đaković Group. Continuing on a ninety years long tradition in production of railway wagons, Company has manufactured the M-84 main battle tank since 1981.

The headquarter and production premises of ĐĐ Specijalna vozila d.d. are located in Slavonski Brod, a town with approximately 60 000 inhabitants, the administrative and cultural centre of Brodsko-posavska County, located on the left bank of the river Sava, 200 km far from Zagreb.

Being the only producer of Armoured Combat Vehicles in Republic of Croatia and Prime Contractor to Croatian Ministry of Defence for MBT Program and AMV 8x8 Program, the Company is declared and nominated as a strategic partner of the Croatian Ministry of Defence and the Croatian Armed Forces.

The Company's scope of work includes defence program and program of freight wagons as primary programs, but also engineering equipment and industrial cooperation in metal-processing industry as secondary activities.

ĐDSV is certified according to EN ISO 9001 for development, design, production and service of special vehicles and equipment for military purposes, industrial vehicles and steel structures.



PRODUCTION PROGRAM

AMV 8x8 Wheeled Armoured Modular Vehicle

Current serial production of wheeled armoured vehicle AMV 8x8 for Croatian Armed Forces is based on cooperation between DDSV and Finish company PATRIA, realized through the full Transfer of Technology.

Running contract for Croatian MoD enables synergy of own experience with the newest technology standards for basic vehicles, which results with full Company capabilities for:

- manufacturing of different types of armoured vehicles
- integration of a wide range of weapons
- equipping of the vehicles for specific missions
- maintenance of the AMV 8x8 and support throughout the vehicle life cycle

Typical basic configurations:

- AIFV-30, Armoured Infantry Fighting Vehicle, armed with 30 mm automatic gun
- AIFV-12.7, with remote weapon station 12,7 mm
- AICV, Armoured Infantry Command Vehicle
- AAV, Armoured Ambulance Vehicle
- ARRV, Armoured Repair & Recovery Vehicle
- ATGMV, Anti-Tank Guided Missile Vehicle
- DDSV is investing great efforts to step out on international market as a relevant manufacturer of various special vehicles.

Main Battle Tank Program

DDSV started with tank production in early eighties. Based on the license of Russian T-72, new M-84 was significantly improved from the beginning. Integration of FCS brought much higher first round hit probability, and image intensifier sights permitted precise night operating.

From the start of serial production the company has produced more than

700 tanks of M-84 family, including the M-84AB model exported to Kuwait.

Main Battle Tank Program includes:

- M-84 & M-84A basic models of MBT (in service in Croatia, Slovenia, Bosnia and Herzegovina and Serbia),
- M-84AB MBT (upgraded M-84, exported to Kuwait and customized for the Kuwait Army),
- M-84A4 MBT (upgraded M-84 for the Croatian Armed Forces), and
- M-84D – DEGMAN MBT, a new and modernized version developed

according to requests for modernized MBT for Croatian Armed Forces / Croatian MoD.

Combining of high-tech solutions implemented in M-84D and significant experience in third level maintenance results with DDSV's unique approach in offering of MBT fleets modernization packages. MBT maintenance, upgrading and modernization package is based on open architecture structure, fully adjusted to specific customer requests and needs.

RM-03 Mine sweeper

Demining machines, have been brought in DDSV's portfolio in early 2000's as a result of own development. The newest type of heavy, high efficient, remotely controlled machine completed the offer of demining equipment. Demining machines are certified for anti-tank and anti-personnel mine fields clearing, capable to operate in all terrain and vegetation types as well as all weather and climate conditions.

Railway Freight Wagons

DDSV is the only manufacturer of railway freight wagons in the Republic of Croatia. As a reference, during the years Đuro Đaković delivered more than 12.000 cargo wagons and over 2.000 tank wagons. Besides production for the Croatian Railways, DDSV is present on the European market in many countries such as Germany, France, Switzerland and the states of Benelux.

THE FACULTY OF ELECTRICAL ENGINEERING AND COMPUTING

The Faculty of Electrical Engineering and Computing is one of the leading research and educational institutions in the field of computing and electrical engineering in the Republic of Croatia. The quality of study programs has been proven by the international accreditation, and successful integration of education, scientific research and development has been proven through the numerous projects carried out in collaboration with research institutions and private and public sector, both domestically and abroad. As one of the multi-disciplinary laboratories at the Faculty, the Laboratory for Interactive Simulation Systems has extensive experience in the development of complex simulation systems for military use. Research and development activities of the members of Laboratory are concerned with simulator training improvement, while scientific excellence is proven through the publications in leading international scientific and professional journals.

SIMIG 2000

SIMIG 2000 is an indoor simulator for Man-Portable Air Defense System (MANPADS) 9K310 "Igla" (SA-16 Gimlet), which simultaneously supports technical and tactical proficiency training, as well as operator's mental readiness evaluation. The purpose of simulator is training of the novice operators, as well as maintaining the skills of the professional ones. The accurate simulation of "Igla" subsystems, inclu-

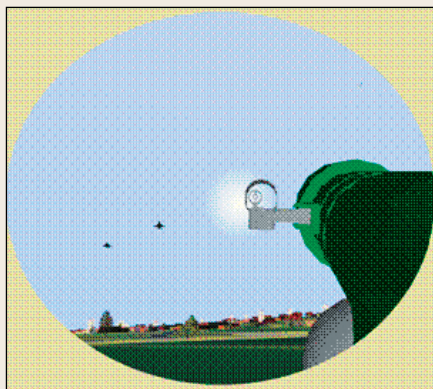
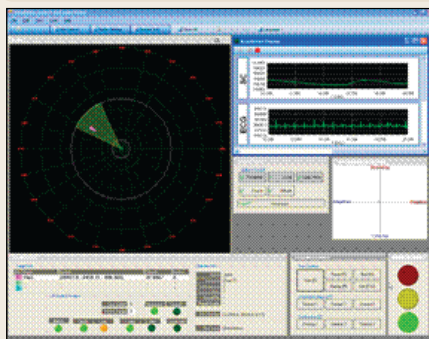
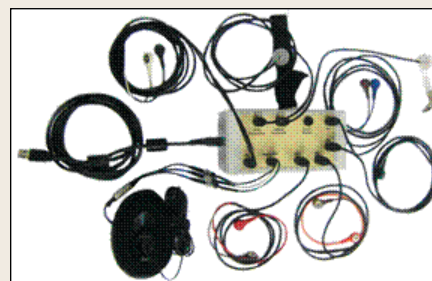
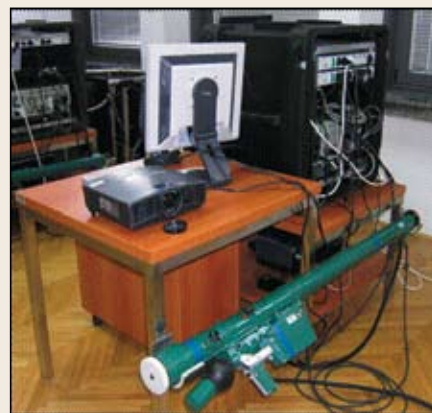
ding the 6DOF missile dynamics model and missile seeker, facilitates highly valuable training. SIMIG 2000 is based on a high-performance multi-processor computer system, which provides real-time simulation of sophisticated missile model and multiple target dynamics, simultaneously visualizing the virtual training environment.

Main features of the simulator are:

- 3D environment for 360° horizontal and $\pm 90^\circ$ vertical FOV
- image displayed on Head Mounted Display, 45° diagonal FOV
- psychophysiological stress indicator monitoring
- control of target trajectory parameters
- IR interference simulation: sun, cloud reflections, and flares
- different types of targets, like fighter aircraft, transport aircraft, helicopter, cruising missile etc.

- possible incorporation in a DIS/HLA networked environment.

Training results are stored and are accessible for further analysis, processing and reports. It is also possible to replay and analyze every aiming/launch, in order to improve the operator's understanding of the mistakes made during the aiming/launch process. Training results can be printed for permanent documentation.



GAVRILOVIĆ

In this day and age, very few meat processing industries can pride themselves on a 320 year old tradition. Gavrilović in Croatia can! In 1690, the first Gavrilović meat processing business was founded by members of the Gavrilović family in Petrinja, a small town on the border of what were then the Austrian Monarchy and the Ottoman Empire. Although it was a small enterprise initially, it soon became a successful meat processing business and, by the middle of the 19th century, a team of diligent and competent experts had helped turn it into a flourishing meat processing industry. In 1821 the First Croatian Factory for the Production of Salami, Lard and Cured and Smoked Meat was founded. The current owner, Đuro Gavrilović, belongs to the eighth generation of owners who are committed to handing down their enthusiasm and love, their knowledge and their expertise from father to son, and from generation to generation. Today's Gavrilović, the market leader in the meat processing industry in the region, caters to true connoisseurs with a fine palate offering an array of top quality products, ranging from high quality pates, salamis, sausages, frankfurters, cooked and dried meat to ready-to-serve meals. Recent history was marked by the acquisition of Puris, the Croatian meat industry specialized in fine poultry products and in that way Gavrilović widened its portfolio of high quality meat products. Production at the Gavrilović meat processing

industry strictly conforms to the highest European and American standards of quality for processed foods and fresh meat. Gavrilović takes great care on a daily basis to ensure that potential risks are eliminated and that its production process is controlled in all its production phases – from raw ingredients procurement and meat processing, to storage and warehousing of goods – by strictly employing the HACCP control system. In 2008 Gavrilović has won a quality assurance reference - ISO 22000 certification, and has thus demonstrated the ability to control all food safety hazards. Gavrilović also holds HALAL and ISO 9001 certification. What do all our products have in common? Special care and dedication in preserving the traditional recipe and exceptional quality. Here are some of the products from our wide assortment:

Canned meat products

Many people have recognised the simplicity and the quality of these products. They require no time preparation and they are consumed on daily basis. Canned meat products can be used for preparation of delicious salads or as an addition to tasty vegetable stew. Luncheon Meat bears the Croatian Quality label and has masterfully maintained its market-leader position for decades. Gavri-



lović was the first food operator in Croatia to produce this kind of canned-meat product.

Spreads

Gavrilović spreads are the ideal choice to start the day, as a picnic meal or on a trip. Centuries of expertise and experience are built into the recipe of Gavrilović spreads. Consumers of all ages love the quick-snack in winning combination: freshly baked bread, pork liver spread and slice of juicy tomato.

Our pork liver spread ("Liver paté") bears the Croatian Creation label and is the absolute market leader among the spreads. It has the original orange-colour design with the smiling face of little girl Jelica. There is no Croatian breakfast without the Gavrilović pork liver paté!

Convenience Food

An excellent and highly-nutritional meal does not necessarily require lengthy preparation; but a quick preparation does not mean less nutritional value. Gavrilović convenience food – made of meat and vegetables by rich creamy sauces – are designed for quick preparation, without putting food quality under question. Our beef stew is definitely the first pick in our wide range of ready-to-serve meals. Pieces of tasty meat in a mildly seasoned sauce guarantee a delicious and nourishing meal in just a few minutes. Gavrilović ready-to-serve meals are in tune with today's busy lifestyle.



GALEB

Galeb company was established on 30th October 1951. For the past sixty years, it has been connecting the tradition and trends in order to satisfy the needs and preferences of its clients and to enter the hearts of the new ones.

The primary activity of Galeb company is production of wearing apparel: underwear, outerwear and nightwear. Our production program includes assortment of products for women, men and children. Products are primarily made of natural fibers (cotton), one part is made of natural regenerated fibers (micromodal) combined with elastan fibers. In the selection of raw and production materials, Galeb only cooperates with reputable suppliers of European origin which results in products which satisfy high quality and ecological norms. As of February 2007 our products bear the Croatian Quality label being awarded by the Croatian Chamber



of Commerce. Galeb owns the certificate awarded by the best known quality certification institute from Germany (Textil-Service-Verglas-und Zertifizierungsstelle from Hohenstein) as a confirmation of high ecological standards for raw materials used in the production process as well as for knitted fabrics and finished products. Samples are sent to the Institute once a year to undergo analysis with the purpose to extend the certificate's validity. We are proud to point out that we carry out the entire production process, from knitting to the finished wearing apparel, within our own production plant. As a result of constant work on innovations and new products, Galeb developed a program of functional underwear for extreme conditions intended for the army, police, firemen, sportsmen and others. This program is produced from special yarns which make these products extremely functional.

GEOFOTO

Geofoto is a Croatian company that offers photogrammetric, geoinformation, cartographic and cadastral services. The company began operating on September 1st, 1993 in Zagreb and its headquarter is in Zagreb. Companies were also founded in London (Geofoto London), La Paz (Geofoto Latinoamerica), Prague (Terramap) and Belgrade (Geofoto Beograd) and there are branch offices in Osijek and Dubai (UAE) as well as sister companies Geofoto-International, Geofoto Air and Infomax.

The main activities of Geofoto are aerial survey, digital photogrammetry, cadastral survey, production of topographic and cadastral databases, design and creation of geoinformation systems and solutions and digital cartography. Geofoto services are recognized through high quality, honest and transparent relationship with the client, strong IT structure and many years of international experience. For the implementation of quality control system Geofoto has earned ISO 9001:2008 Certificate.

Spatial data and information are our core business so we place great focus on clients' database security and protection. Our own information system, space and personnel have been certified to handle classified data. The Facility Security Clearance issued by the Office of the National Security Council enables the company to participate in national, NATO and EU classified tenders and thus strengthen the company's position on the domestic and international markets.

The company and some of its experts are members of many organizations and associations such as Croatian Geodetic Society, Croatian Cartographic Society, Croatian Chamber of Chartered Geodetic Engineers, Croatian Standards Institute, Croatian Academy of Sciences and Arts, EUROGI (European Umbrella Organization for Geographic Information), Spatial Data Interest Community, EU INSPIRE Directive, etc.

The company currently employs 154 people. Our employees work on the state-of-the-art equipment and continuously attend different seminars and courses, publish papers and participate at numerous conferences around the world.

Military Geoinformation Systems

Military Geoinformation Systems are critical technology in the work of the defense and intelligence community. It is a flawless digital map of a certain area which can also be web-based. Users of these systems have access to spatial and environmental data collected, stored and displayed in accordance with NATO standards. They can use them at their workplaces by means of advanced technologies. Geofoto has developed a conceptual solution which uses precise information, flexible communications and dynamic situation photos created for the military. Databases are created in the form of basic tactical military topographic maps in a 1:50 000 scale and JOG-G (Joint Operations Graphic – ground) tactical military maps in a 1:250 000 scale.

Digital orthophoto

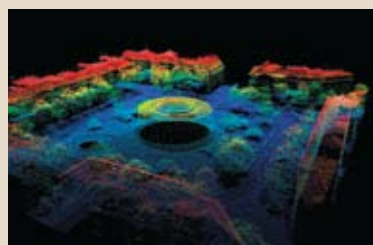
Geofoto specializes in production of digital orthophoto from aerial photogrammetric images and satellite images. Digital orthophoto is a geometrically corrected photograph in a digital format, produced as a result of computer transformation of digital photographs from the central into the orthogonal projection. Generally, the orthophoto is made within shorter period of time than vector maps and it is several times cheaper. The most common scales of analogous orthophotos are 1:5000, 1:2000 and 1:1000. In addition, there has lately been an increase in demand for True ortho, in



which built objects are not projected on the ground, but are considered as height data in the orthorectification process. In this way, objects are presented spatially in a correct manner: object roofs are right above the foundations, without display of the side walls or overlap of surrounding areas.

LiDAR data

LiDAR technology enables collecting altitude data of the terrain, buildings, vegetation and other spatial layers in a swift, accurate and automatized manner. Data acquired through the LiDAR system is especially useful when identifying targets such as tanks and aircraft.



Geofoto recently purchased one of the most modern LiDAR systems which, mounted on an aircraft, uses close range infrared part of electromagnetic spectrum for active data collecting in daylight or during the night, in a shadow, but also in conditions of lower visibility (e.g., under the clouds). Typical 3D visualizations, including enhanced DTM with buildings and vegetation can be made within a few hours.

3D terrain and city models

Geofoto makes different 3D data. They are obtained from aerial photogrammetric images. Spatial resolution of imaging can be up to 8 cm which enables highly detailed and precise level of detail. On the basis of such images and using photogrammetric mapping on specific workstations, 3D data is created of the existing



objects and terrain. After topographic processing, this data is a genuine and reliable source of information in space. 3D data has many uses and the military most often uses them for mission and exercise planning and command, aerial reconnaissance, logistic planning and enemy and friendly forces tracking.

Scale models

Once a 3D model has been created the data is materialized from the digital form using a special 3D printout technology and scale models of different scales are being



made. The scale model comprises a tablet mosaic built on a special base and it is an irreplaceable means of communication and spatial display.

Digitization Centre

Geofoto delivers complete solutions for scanning and vectorization of large size master plans and maps. The kit contains a large format scanner, a software used for conversion of raster files into a vector format (lines and objects) which has a possibility of pattern recognition, an application used for data transformation into UTM projection and different format conversion. In addition, the company provides system application services, training and system maintenance.

CLUSTER FOR HUMANITARIAN DEMINING

Cluster for humanitarian demining Ltd. was established on 17th of July 2008 by registration into court register at the Commercial Court in Zagreb with the aim to promote, lead and co-ordinate developmental activities in humanitarian demining abroad. Now we are in position to offer complete mine action solutions to the global mine action community.

The Cluster, through its founders and associate members, has capacities, resources and knowledge to conduct all activities in the mine action system, such as:

1. Setting-up of and/or assistance in organisation and establishment of national authority for mine action:

2. Humanitarian demining that consists of actions which result in mine and UXO threat removal, and are carried through the following activities:

- Elaboration of the Mine action programme and Humanitarian demining plan
- Carrying-out the general and technical survey in order to collect and process; data on mine suspected, mined or demined areas and/or buildings; data on found and destroyed mines and other technical characteristics of mine suspected areas
- Carrying-out humanitarian demining operations
- Taking-over demined areas and/or buildings after completed survey,
- Marking the mine suspected areas and/or buildings
- Elaboration of the survey and demining projects,
- Conducting QA/QC monitoring during demining and during final inspection.

3. Education of population on mine threat

4. Mine victims assistance, rehabilitation and reintegration

In order to conduct humanitarian demining operations in a safe manner, and in order to have all stakeholders of the demining process maximally protected, the Cluster can, through its founders and associate members, provide professional and quality equipment, such as:

Demining machines, equipment, and workshop for maintenance of the machines with experienced and qualified staff, mechanics, electricians and computing experts.

Protective and safety equipment used in humanitarian demining. The programme encompasses helmets, visors, ballistic vests and bullet-proof vests,

- equipment for mines and UXO detection
- training for divers and underwater demining.

Other than services and equipment for humanitarian demining, we can provide support, primarily equipment-wise, to military and police units through our founders and associate members.

Cluster for humanitarian demining Ltd. – COMPLETE MINE ACTION SOLUTIONS



Combat helmet with visor BK-3 - Šestan-BUSCH Ltd.

Our member produces protective and safety equipment for military, police and sports purposes. The product range primarily covers the manufacturing of protective helmets, and range of plastic mixes.

Šestan-Busch also disposes with own laboratory for testing of its products. These tests are conducted in accordance with national and international standards. Quality of the products is a result of practical experiences gained during war operations in Croatia. The products are produced in accordance with ISO 9002 standard, and the process of production is continuously monitored from receiving of the raw materials to final tests of finished products.

Protective vest against shrapnel/fragments B1 – Borovo Gumitrade Ltd.

Protection from fragments from exploded missiles, grenades, rejected missiles and physical shoots primarily for demining activities. Shape and construction are adapted for the protection of the upper part of the body, shoulders and neck, additionally for genital protection. The basic protection consists of frontal and back sides jointed in shoulder area and in lateral area with elastic joints with over-lapping in combination with Velcro tape. It enables easy adaptation to the body shape and constitution. It is easy to dressing and undressing. Two-part collar with overlapping; frontal part is secured with additional protective part. Ballistic plate is added as a pocket to increase the level of protection.



Demining machine MV-4 – DOK-ING Ltd.

The MV-4 Mine Clearance System is a tracked, remote-controlled machine designed to clear all types of anti-personnel (AP) mines. Due to its small dimensions and maneuverability, it is suitable for demining housing areas, forest paths, river banks, and other types of terrain that is inaccessible to larger machines. The various operating tools for mine clearance and soil processing destroy even the smallest anti-personnel blast pressure mines and the most dangerous types of bouncing fragmentation mines. The machine is remotely controlled from an armored vehicle or from a safe distance. The engine and vital components of the machine are protected by steel armor plates.

Demining machine RM-KA-02 – Đuro Đaković Special Vehicles Ltd.

Machine for humanitarian demining RM-KA-02, developed and produced by ĐĐ Specijalna vozila, is a tracked vehicles, weighs about 14 t, and it is protected from the explosion impact with ARMOX 10 mm steel armour. This is a radio remote controlled system made; for safe removal of thin and dense vegetation; and for destruction of all types of anti-tank and anti-personnel mines in the areas which are inaccessible to heavy demining machines. The operator uses a mobile control system.

Demining machine VF-100 – Istraživač Ltd

Demining machine "VF-100" is located in company Istraživač Ltd., Nustar, Croatia. Working tool (cultivator RF1000) width is 2,6m, and total working tools width is 3,08m. Machine VF-100 has weight of 18 tons without working tools, and total of 22 tons with working tools., it moves on caterpillars, and main engine type is DEUTZ BF 6M 10 15 CP, with power of 300 kW or 408 Hp, hydraulic engine. Power transfer is made possible by cardan.

MONTMONTAŽA-GREBEN SHIPYARD

Montmontaža-Greben d.o.o. is a Croatian shipyard with more than 60 years of experience in design, production and delivery of special purpose vessels for the Navy and the Police – minehunters and landing crafts, fast patrol vessels, training ships, fishing vessels and lifesaving equipment.

Situated in Vela Luka, Montmontaža-Greben d.o.o. continues the work and tradition of the Greben Shipyard, founded in 1948. From the shipyard's foundation until today, teams of experts have developed various types of vessels made of glass reinforced polyester, hull aluminium alloy and hull structural steel. The vessels have been intended for navy, police and ports, for transportation of passengers, as well as lifesaving and rescue at sea.



Great attention is devoted to quality design solutions by adapting the vessels to the customers' requests. Thanks to our own project and technical department with highly educated and specialized personnel, we are capable of meeting any tactical and technical requirements. As for the equipment (engines, generators, electronics, etc.), we install only high quality products by globally renown manufacturers. Our production program also comprises fishing vessels (combined, purse seiners, trawlers, shrimpers...) and

training ships for students of naval schools and universities in the Republic of Croatia.

Montmontaža-Greben Shipyard is particularly proud of its navy and police program comprising minehunters, landing assault crafts, landing utility boats and police patrol boats.

Minehunter type MPMB is a 25 m long vessel intended for the detection, identification and neutralization of bottom influence mines, as well as line sweeping of moored mines. The hull of the vessel is built of GRP and it is specially designed to resist underwater explosions. The essential equipment and the crew are protected as well by resilient mounting, while special attention is paid to the realization of low magnetic and underwater noise signature.

Landing assault craft type LAC 22 is specialized for fast landing, transport of personnel, equipment and armament, transport of vehicles and other equipment up to 10 tons in total weight. The mobile fore ramp enables fast embarkation and disembarkation of personnel and of a light cross-country vehicle.

Landing utility boat type LUB 11 is intended for fast landing, transport of men with personal equipment and armament, and for transportation of miscellaneous

equipment and material. The drive is realized by two diesel engines and two water-jet propulsors, while Z drive is also provided for. The hull and wheelhouse are made of GRP, and fast embarkation and debarkation of personnel and equipment is enabled by means of a mobile ramp on the bow.

Fast patrol craft type POB-24 is designed as a fast, twin-screw craft primarily assigned for the control of state border and territorial sea of the Republic of Croatia and for monitoring, tracking and controlling ships and smaller boats. The hull design enables 35 knots maximum speed, and its modern deep V form enables the maintaining of speed and navigation under unfavourable weather conditions.

Police patrol boat type POB-13 is designed as a fast boat with classic V drive propulsions, and the hull design enables good maneuverability and stability.

The boat type PB-8 (Fenuil) is intended for patrol service on the sea and inland waterways. The hull deck and superstructure are made of GRP in sandwich construction, while the boat is of sharp form suitable for skimming.

HS PRODUKT

HS Produkt is a Croatian firearms company from Karlovac. It is well-known worldwide for the production of semi-automatic pistols and VHS assault rifle. The company started its development path back in 1991 and due to its own knowledge, progress and human resources combined with latest technological achievements today it exports most of

its production to the fastidious world market.

Their products currently

enjoy a well-deserved

reputation at the US market where

Croatian pistol is marketed under the XD (eXtreme Duty) brand. HS Produkt pistols have been National Rifle Association Award Winners three times so far, all in an extremely short period of time and within one year. The company holds various acknowledgments and certificates such as IZVORNO HRVATSKO and EN ISO 9001:2000 awarded for the development and the production of pistols. Today, HS Produkt is one of the largest pistol production companies in the world.

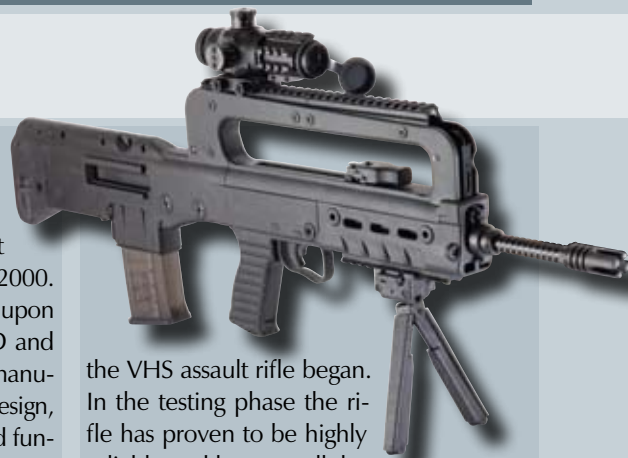


Today's pistols were preceded by several developing designs. By the end of the 1990s, company constructors managed to build the company's most successful handgun of the time - the HS 2000. The latest HS Produkt pistols were built upon the HS 2000 and they are the HS XD and XDM series. These are designed and manufactured using the top materials. Their design, small weight and flawless reliability and functionality have brought recognition by the law enforcement and the armed forces.

After great success in Croatia and in the US, HS pistols became a standard sidearm of many law enforcement and armed forces around the world. Besides the Croatian and the US Armed Forces, these guns are being used in the armed forces of the Former Yugoslav Republic of Macedonia, Bosnia and Herzegovina, Thailand, Malaysia, Indonesia and the Dominican Republic.

HS Produkt has started producing the VHS assault rifle which is soon to become an official rifle for the Croatian Armed Forces.

The development of the Croatian assault rifle started alongside the development of the pistol, back in the early nineties but about four years ago the development of



the VHS assault rifle began. In the testing phase the rifle has proven to be highly reliable and has met all the criteria in full.

VHS assault rifle is produced in two versions – the basic model, VHS-D, and a short barrel model VHS-K. It is a 5.56x45mm NATO bull pup select-fire weapon. The bull pup design shortens the overall length of the rifle while preserving the full length of the barrel. It is made of high-quality steel and resistant polymers and accessories such as under-barrel grenade launcher, detachable bi-pod, optical sighting device or a flash light can be fitted to the rifle.

An Agreement between the Croatian MoD and HS Produkt created conditions for the entire Croatian Armed Forces to be equipped with the Croatian-made assault rifle in the years to come.



HIDRAULIKA KURELJA

Hidraulika Kurelja d.o.o. was established in 1993 and since 1995 is a limited liability company. Its main activity is manufacturing and servicing of hydraulic structures and equipment. The initial activity was only servicing, but gradually the company developed and today has an own manufacturing range of hydraulic equipment, particularly truck and rail vehicles mounted.

The company is situated in Donja Stubica, 30 km from Zagreb, the capital of Croatia. Hidraulika Kurelja d.o.o. currently has 100 employees at its own newly built premises of 6 500 m². There is a branch office in Zagreb.

Our Development and Design office has created a wide range of products to satisfy the demands of the market. We manufacture power supply, road construction and maintenance, railway, water supply, forestry, oil and transport businesses equipment. The company's pro-

ducts are valuable assets of the Engineer and Logistic units in the Croatian MoD. Hidraulika Kurelja is a MEILLER agent and a HIAB, Bertoja, EX. Meiller, Ruthman, Fassi and Atlas authorized service on the Croatian market. Company products can be found in all the republics of former Yugoslavia. There is an identical production company in Serbia which employs 85 people and offers a range of products identical to the ones in Croatia. We are a growing company and are constantly increasing our standards. The ISO 9001/ 2000 certificate proves that our production process is in compliance with international standards in the metal industry. As a major domestic market share holder, in the last few years we have expanded our export, mostly to Austria, Bosnia and Herzegovina, Macedonia, Serbia and Montenegro. Our main priorities are quality products and services as well as customer satisfaction.

HS Produkt

VHS
ASSAULT RIFLE



I&I

I&I d.o.o. Zagreb is a general agent in Croatia for FUJI PHOTO FILM CO., LTD products. The company supplies the Croatian market with the following FUJIFILM products:

PHOTOGRAPHIC SUPPLIES

All types of photo films for amateur and professional photography, photo paper and chemicals for film and photo paper processing.

EQUIPMENT

Full spectrum of film processing devices, analog photofinishing equipment as well as digital imaging processing systems.

ANALOG CAMERAS

Analog cameras with a range of applications – simple amateur cameras, complex APS cameras and highly sophisticated cameras for professional use.

DIGITAL CAMERAS

Due to its own, newly-implemented technology and technical solutions, FUJIFILM takes the lead in the world market of digital cameras. Digital cameras range from simple consumer models to highly capable professional cameras. The line

7x28 M



Stabiscopes Series

gyro-stabilization for perfect image from any vehicle (helicopter, ship, car)
available as 12x40, 16x40 and 12x40 D/N with image intensifier option
waterproof
shock-protected body
usable with standard batteries or external power-supply
mainly used by air force, navy, SAR units and police forces
D/N version available with image intensifier tubes

S 12x40



25x150 MT-SX



150mm Aperture Binoculars

25x150 and 40x150 binoculars are the largest in the world
incredible high resolution and light gathering power
very tough performer even at high sea
fully waterproof
durable, saltwater-proof coating
optional heavy-duty mount available
very comfortable eyepieces
recommendable for long-range surveillance at border guard/coast guard
D/N version with high grade image intensifier tubes available

of products becomes complete with a specialized high-resolution digital image processing and printing system used for fast prints from digital cameras.

MOTION PICTURE FILMS

FUJIFILM is present at the world motion picture films market. The products feature small granularity, high level of sharpness, true tone reproduction and wide sensitivity range which all enable

the cameraman's freedom and amplitude of expression.

FUJI OPTICAL PRODUCTS

FUJINON is one of the world's greatest producers of optical products in science, medicine, industry, TV technology and photography.

I&I is displaying top-class binoculars for military, law-enforcement and special needs at ASDA 2011.

INKOP OBUČA

Croatian firm Inkop Obuca, situated near the capital, is supplying for decades the footwear market with protective and military programs. Following the market trends and investing in the technology and product quality, the company provides a different range of safety, work, fire and military footwear. An annual production exceeding 300.000 pairs, makes Inkop one of the largest footwear manufacturers in Croatia. Inkop uses adhesive and flexible technology and the highest quality materials, complying with Croatian and European standards in the manufacturing process. It is certificated by EN ISO 9001 since 2007.



The production program consist of:

working shoes	Art. 021008 MILITARY BOOT
safety shoes	upper: leather
military boots	lining: Waterproof membrane
fire shoes	sole: PU/rubber
fashion footwear	Art. 021008-2 MILITARY BOOT
Following the market trends,	upper: leather/ cordura
Inkop Obuca uses only top quality	lining: Waterproof membrane
materials, providing all the techni-	sole: rubber
cal requirements and comfort to	Art. 080508-4 MILITARY BOOT
be met.	upper: leather/cordura
Among the many well-accepted	lining: Waterproof membrane
military boots, we will mention	sole: PU/rubber
only few of them:	Art. 080508-4 MILITARY BOOT
Art. 011008-1 MILITARY BOOT	upper: leather
upper: leather	lining: Waterproof membrane
lining: Waterproof membrane	sole: PU/rubber
sole: PU/rubber	

INsig2

INsig2 is active in area of both ICT and physical security. We can design, implement, integrate and maintain the most sophisticated security systems. Our competencies cover good knowledge of principles of IT security governance, design of high-tech physical security systems, integration between logical and physical security systems and maintenance. INsig2 has great experience in securing companies information assets. We already provide consulting services to a number of governmental institutions and private companies.

IT Security program design and implementation

INsig2 consultants are experienced in designing security programs for each company according to the company's business strategy. The security program will ensure that all valuable company's information assets are protected in the most efficient way.

Designing physical protection systems

Physical security system design is one of the critical steps in securing companies physical assets. Knowing the business needs and the sources of threats and risks provides the basis for our experts to propose technical solutions

and organizational policies for operations of physical security systems.

Implementation of physical protection systems

Our experts are capable of implementing a physical security system which includes cabling, equipment mounting (cameras, sensors, locks, etc), connecting and configuring of all components in one integrated physical security system.

Integration between logical and physical security systems

More and more companies have very sophisticated business environments as well as complex internal organization. It is not rare that activities in one business unit influence security threats in another business unit. On the other hand, most of the physical security equipment became IP based. Network cameras are not just cameras any more; they are computers with a processor, a memory and an operating system. All those reasons have led to an enormous growth of need for organizational and technical integration of logical and physical security systems. As an IT company that understands IT technologies very well we have successfully delivered a number of integration projects.

Computer forensics investigation

Nature of the crimes is changing on a daily basis. Thieves do not need guns any more. To-



day, computers are more than enough. Digital evidence are not easy to hide, but they are also not easy to find. Our experts are well educated and experienced in conducting digital forensics investigation, finding digital evidence and preparing reports to be used in courts.

Design and implementation of data centers according to EN1047 norm

Protecting sensitive electronic equipment from fire, dust, humidity, and electromagnetic waves is not an easy task. In the case of fire or some other incident, it is not possible to place data center equipment on some safe location. So, it is important that data center is built according to the European norm EN1047-2. This norm defines what criteria construction elements need to fulfill in order to prevent data center to be destroyed. INsig2 has competencies in designing, building, equipping and maintaining of such highly sophisticated data centers.

HSM INFORMATIKA

The company has built and developed its knowledge since 1990 which led to its current position as a VA distributor. HSM has also expanded its program of expertise and introduced its own solutions as well as expanded the business to the countries in the region in which the company can be competitive. There are three areas in which HSM informatika does business today – cross media publishing, multimedia and eBusiness. Each one of these areas is

covered by a team of know-how professionals. We would like to indicate Adobe as one of the most important companies whose products we distribute. Adobe is a worldwide leader in graphics and web design software, print preparation, distance cooperation and education using Adobe Connect. Document management is made possible by their widely accepted software Adobe Acrobat. Another leading company specializing in graphics design is Corel. The



company is well-known for its WinZip data compression software. In the area of database management, we distribute products made by FileMaker, while our scanner, optical character recognition (OCR), and document management line features products by IRIS and Abbyy.

HSM informatika featured solutions:

Electronic document security, archiving and management

Our offer of electronic document security, archiving and management is based on Adobe Acrobat and Adobe LiveCycle softwares. These Adobe tools create, enable signing and certification together with advanced document protection as well as perform validation of received signed digital documents. PDF/A documents are the only global norm for long-term archiving of electronic documents and their viewing, even after several decades have passed. PDF/A was declared an ISO norm in 2005 and at the end of 2008 it was made a Croatian norm as HRN ISO 19005-1:2008.

Distance education and enterprise

Adobe Connect enables web-based education and cooperation with all participants involved, no matter where they are and without any technological barriers or limitations. It combines real-time and on-demand communication which makes it a unique system on the market.

The quality of delivered content and the simplicity of use are guaranteed owing to the popular Flash format. Using Adobe Connect, you will be able to do web conferencing, conduct online meetings and briefings, and deliver online presentations. You can also do quality eLearning and deliver rich multimedia and/or educational content, tests and effectively monitor the overall eLearning process using the necessary analysis and statistics.

Presentation and education solutions

HSM informatika offers you complete solutions in equipping presentation and conference rooms of all kinds and sizes. In addition, we provide interactive webinar solutions. The company provides full service even to the most demanding presenters and educators by offering projectors for every conference room produced by InFocus and Mitsubishi, LCD and LED screens, projection screens and films by Projecta, all the way to sound systems and interactive smart boards and voting systems by elnstruction.

JLM PERKOVIĆ

Our story of success starts back in 1956 when lathe workshop *Kovnotokarska radnja Perković* was founded in Rijeka. It was established by Mr. Frane Perković after many years of experience in machine metal processing and it was the first such workshop in the region. The workshop's core business was the production of propulsion elements for the machine tool industry, shipbuilding industry, processing industry, etc.

JLM Perković is a small limited liability company but a company that is able to use its professional employees to continuously develop its products and equipment and also deal with the most complex tasks in machine metal processing, especially when it comes to gear wheels. Since its founding, the company aims to technological progress and modernization of its machinery and equipment and invests in permanent professional education of its employees.

The early eighties of the 20th century were the time when Milan Perković built a new company in Matulji near Rijeka, naming it JLM Perković. At this location, Mr. Perković invests in the infrastructure and the modernization of the machinery and also independently develops and patents some solutions in a brand new production line of marine transmissions.

At the beginning of the Homeland War we have developed a 20 mm sniper hand-gun which was exclusively used with the Croatian Army at that time. Fuelled by significant interest in this product, we had started marketing it abroad as well. The export had expanded to many European countries and later on, to different markets around the world. We have developed three models of this weapon and its quality and reliability was widely recognized both at home and abroad.

Continuous development of our products has resulted in new patents and solutions in the hydraulic valve actuators program, and in 2010 we have finished the development of a new product – a



torsion suspension with leaf springs which has an approved patent claim from the State Intellectual Property Office of the Republic of Croatia.

We are one of only four producers in the world that manufacture hydraulic marine transmissions with an angled exit shaft (Marine transmission HBK 480 A). More than thirty years of experience in building marine engines resulted in seven diesel models (14-75 HP), all based on an engine by Perkins Ltd. New models of JLM marine diesel engines are being developed. Currently, they are diesel engines producing 115 to 215 HP and using a turbo fan and an intercooler.

The ISO 9001 certificate acquired in 2008 is a proof of quality and recognition of our products, apart from the products themselves.

We are a growing and reliable partner on domestic and European markets offering great quality, price and delivery terms. We construct, develop and produce our products independently, using the Pro-Engineer 3D CAD-CAM system.

JLM Perković is a member of the following clusters:

- Boatbuilding Cluster L.L.C.
- Agriculture and Forestry Machinery Cluster L.L.C.

Our business policy stems towards meeting our clients' needs in terms of quality, price and delivery terms.



JACQUARD

JACQUARD is a company founded in Zagreb in 1984.

We specialize in producing fabric military patches, rank and other insignia that we have developed and made since the Croatian Army beginnings. We have managed to achieve high precision and wear-resistance of our products using advanced technologies and many years of experience.



The following facts need to be stressed:
- the company developed camouflage insignia in cooperation with professional institutions such as Faculty of Textile

Technology. After conducting remission scanning in the low-frequency InfraRed area we have achieved results that comply with the most demanding international standards.

- registered at NAMSA under 4000054701.

We plan to further develop and enhance our products in the future.

LUVETI

Manufacturing, sales and service of special military and police equipment, firefighting, ecology and civil protection.

Fields of activity:

- EOD / IEDD protection, robots for explosive devices deactivation
- CBRN
- thermal and IR cameras and goggles
- IT equipment
- simulators, live training
- communication equipment
- jammers, X-ray scanners
- ballistic protection
- UAV's
- radars and all other equipment for border controls
- cooling and filtration systems



- complete ecology and firefighting equipment
- other special tools and devices

Distribution and representation of world renowned manufacturers:

- ELBIT SYTEMS – Israel; www.elbitsystems.com
- ALLEN VANGUARD – Canada; www.allenvanguard.com
- TELEROB – Germany; www.telerob.de
- SEMA WORLD – France; www.semaworld.com
- ENVIRONMENTAL DEFENCE

- SYSTEMS – United kingdom; www.edslimited.co.uk
- LOGIC INSTRUMENT – France; www.logic-instrument.com
- PARATECH – U.S.A.; www.paratech.com
- HMS – United Kingdom; www.hazmansol.com
- PROPAPMS – Canada; www.proparms.com
- OIP SENSOR SYSTEMS – Belgium; www.oip.be
- STANLEY HYDRAULICS – USA; www.stanleyhydraulic.com



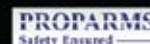
LUVETI

SAFE WITH US

Sales, services and manufacturing of special military and police equipment, fire fighting, ecology and civil protection.



www.luveti.hr



KROKO INTERNATIONAL

Kroko International d.o.o. is a Croatian manufacturer specialized in development and production of military and police equipment. Using its own resources and human potentials, the company has developed over 250 various products, 150 of which are standardized equipment for the members of Croatian Armed Forces and Croatian Police. The company's development and production program consists mainly of development and production of combat vests, ballistic protection vests, tactical vests, backpacks, specialized packs and bags, holsters and pouches, duty belts, uniforms, combat tents and covers, protective gear and other military and police accessories.

We have already completed the processes of development, standardization and implementation of brand new uniform sets for Croatian Armed Forces and Montenegrin Armed Forces. The same work has been done in equipping other friendly forces. Apart from the development and production for the domestic market, the company is successfully developing, producing and retailing its products at foreign markets of Montenegro, Saudi Arabia, Kuwait, United Arab Emirates, Germany, Switzerland and other markets. In the near future the company intends to boost its retail at the foreign military equipment markets and plans and develops accordingly. Substantial funds are being invested in marketing activities so that the company is present at all respectable military equipment exhibitions and fairs.



METALLIC

Metallic d.o.o. is a company established 25 years ago, situated in Rijeka and 100% privately owned. Since 1990, the company has developed and perfected several products catering to the needs of Croatian Armed Forces. The most prominent products are RBG-6 grenade launcher and 40 mm grenade parts (fuse and high-pressure chamber).

The company's modern machine park consists of CNC lathe machines, machining centers, plasma cutters, micro casting and plastic tools.

The latest technologies in electrocoating are used in finishing stages. All production stages are monitored and the company uses a built-in system of ensuring the quality of products.

Through the course of years the grenade launcher made its way to both domestic and foreign markets. With the improvements in production came specific advantages valuable to the users, such as hard chromed barrel, chromed trigger mechanism, stainless steel springs and connecting parts, etc. These improvements especially contribute to the functionality of the weapon in unfavorable weather conditions, to its maintenance, and they



increase durability of the weapon's major parts. Another product of ours, 40mm grenade fuse, has been developed in Croatia in cooperation with top experts. It is a part of the regular production process and it is used in all the grenades of that caliber. The quality of this product has been confirmed by the grenade/fuse technology transfer successfully completed three years ago.

NCP REPAIR SHIPYARD ŠIBENIK

The Austro-Hungarian Navy had been serviced in the Repair Shipyard Šibenik since 1905 and this military vessel repair shipyard maintained its business during the 20th century by hiring top professionals and

earning its hundred-year-old reputation by building and servicing ships.

NCP Repair Shipyard services over 80% of Croatian Navy's fleet today and continues to invest in the modernization of its facilities



and business. Using the experience and knowledge in building military vessels, which are very demanding in terms of their quality and stability, as well as modernizing

the system and our way of doing business that has been conducted by NCP Group, this shipyard has specialized in building and repairing yachts and megayachts.

Over 200 employees of NCP Repair Shipyard work in small teams in 15 specialized workshops.

This is made possible by our production plant covering an area of **110.000** square meters, including **45.000** square meters in sheds and workshops, **48** cranes with up to **20** tons lifting capacity, a **900** ton synchro-elevator and a **1.500**-ton floating dock. Thanks to the **2.000** square meter shed, work is continued even under extreme weather conditions.



Novi Link was established in 2009 as a result of many years of experience and business in satellite communications industry.

An opportunity of doing business with Norsat emerged at a meeting with the company's leading representatives in 2008

NOVI LINK

when it was agreed that a company would be established in Croatia to put the Norsat brand products on both civilian and military markets in the region.

METS exhibition in Amsterdam in 2010 resulted in yet another Norsat product to be offered in Croatia – Blu Box. It is a device used for monitoring and surveillance of the fishing ships.

Novi Link also provides telecommunication services through various operators such as Skylogic, SONEMA, Astra, Net Dish and others using Ku and C bands. We also provide installation and maintenance of these systems.

ASDA 2011 is an opportunity to present Novi Link as the official dealer of Norsat and its products. We will be displaying GLOBETrekker, a sophisticated mobile antenna also known as a top game product in its category by the leading military forces from around the world which are clients of Norsat.

THE PCE - MARINE ELECTRONIC CENTER

The PCE(Marine Electronic Center) company has two profitable centers:

- Electronic Center
 - Manufacturing Center
- Electronic Center main areas of activity:
- Naval combat information and weapon control systems
 - C3I systems
 - Naval internal and external communication systems
 - Secure communication devices and systems

Ship`s inertial navigation, hydro-acoustic and radio-navigation systems

In these areas, Electronic Center is capable for:

- developing and manufacturing products and systems according to user demands
- projecting and instalation of electronic systems on ships and other objects
- servicing electronic systems on ships of all assignments and in all shipyards in the country and abroad
- integration of electrical systems(hardware and software) of different manufacturers and technologies
- technical maintenance of electro-

nical systems on floating and terrestrial objects

- calibration, regulation and fixing of measuring instruments in the frequency range from 0 Hz to 22 GHz
- testing of electromagnetic compatibility of electronical devices
- training of specialised maritime

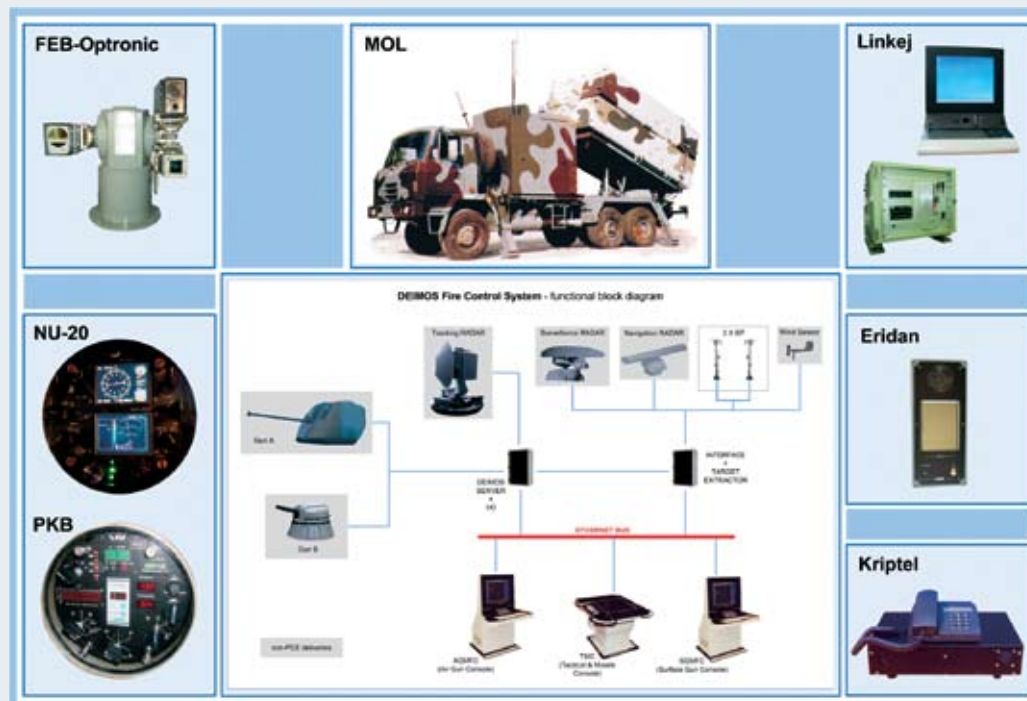
experts in the usage and maintenance of electronic systems

Electronic Center organization:

Within area of 4.000 square meters, business building and few facilities are sited.

Quality Assurance system:

- Certified ISO 9001:2000 by Bureau Veritas (BVQI)



REDTECH

– MILITARY DIVING EQUIPMENT AND EDUCATION

The company specializes in production and distribution of military diving equipment- combat dry suits, buoyancy compensators, underwater dry containers, scooters, and mixed gas air supply systems. A wide range of diving courses and training skills are available for Special Forces and Amphibian units. Out of a wide range of our products at the Adriatic Sea Defense & Aerospace Exhibition, the company presents several new and innovative products such as waterproof transport bag named RedTech CVB2 and PMD a mixed gas supply system for field operations.

CVB 2 is a modular system with two main components – a buoyancy compensator and a waterproof transport bag. The CVB 2 model is designed to transport equipment during swimming or diving where the diver is equipped with a rebreather apparatus which is located on the chest (Drager Lar V, VI LAR, etc.).

The waterproof bag can be vacuumed or inflated. The advantage of vacuum is that it can achieve stability and reduce the volume – buoyancy of waterproof transport bag. The choice between vacuum and inflation depends on the type and weight of the equipment/payload but also on the type of transport. The waterproof transport bag can be quickly and easily separated from the buoyancy compensator. Once out of the water, the transport waterproof bag can be carried on one's back using its own harness system. Using additional RedTech military equipment, the CVB 2 model can quickly and easily be transformed for its use. This is made possible by using an open circuit or other types of rebreather apparatus. RedTech offers possibilities for education and training for the use of buoyancy compensator and the waterproof transport bag.

The PMD is a portable system for preparation and supply of all types of diving mixed gases such as Air, Nitrox and Trimix. It is designed in a manner that, thanks to its small dimensions and weight, it can do a fast and simple job in conditions of field operations. It consists of a device for continuous gas mixing, a mixture analyzer, a booster pump and four outlets for filling the diving cylinders. RedTech offers education and training for the use of PMD system, as well.



RIZ PROFESSIONAL ELECTRONICS (RIZ PE)

The company was founded in 2002. However, the identity of the business can be traced back to 1969 when a company RIZ, telecommunications equipment factory with an orientation to the dedicated production was founded. The company is located in Zagreb in its own production and office space of 700 m² including a warehouse and all equipment required for the development, production, maintenance and servicing of professional electronic equipment, devices and systems.

Key clients of the company are Croatian Ministry of Defence, fire departments and Croatian Ministry of Interior. The production program has been customized to cater the needs of Croatian Armed Forces from the very beginning, even during the Homeland War, and we continue to monitor the needs and enter procurement, production and system maintenance programs. Our contribution in the equipping of vehicles in peacekeeping missions needs to be emphasized as well.

The company is a regional partner of the U.S. corporation ITT, holding a licence approved by the U.S. Department of State. With Croatia becoming a full NATO member state, the company is able to participate in public tenders of other NATO states which was not



possible in the past since all member states buy weapons and military equipment from other members of the Alliance exclusively. In doing so, the principal condition is obtaining the NATO code which is given to every military equipment supplier within NATO by the Alliance and via the Ministry of Defence. The company is one of a dozen companies in Croatia which have the NATO code. In addition, we are able to offer our clients



procurement and import of other equipment that comply with their needs through our worldwide network of contacts and shipping support. RIZ PE also provides other services such as repair, system completion, testing of new equipment, maintenance, technical support, modernization and expert training for our clients' staff.

Main goals of our future business are:

- further cooperation with Croatian MoD in the area of long-term use and repair of military telecommunications systems and planned modernization of the Croatian Army,
- high-end outfitting of the Croatian Army units in peacekeeping operations,
- expansion of cooperation with ITT as our strategic partner which is a carrier of new technologies in the field of telecommunications,
- participation in research and development projects, testing, and equipment standardization with other weapons and military equipment manufacturers,
- participation in offset programmes
- maintaining and improvement of permanent cooperation with our partners, particularly ones from the region, while consulting with competent institutions and organizations such as Ministry of Defence, Ministry of Foreign Affairs, Ministry of Interior and RH Alan.



Products and services:

• Communications booths

Communications booths are intended to be equipped with TMS communications system and equipment kits working in all climate work conditions. They are fitted with tactical VHF and HF radio devices, radio-relay devices, TETRA radio system, satellite terminal and other custom made equipment. Booths are delivered as fixed units, completed in the factory with all necessary licenses issued by authorized organizations regarding electrical installations and other materials used.

• **Mobile communications center** mounted on any vehicle, including armoured vehicles. Used for radio communication.

• **VHF and HF radio sets** (manpack, mobile and stationary)

- HF range: RU-20, TRC-20H

- VHF range: SINGGARS

• **Intercom** - UMR-1, **in-helmet headsets** KF-1, KF-2 and similar equipment for intercom and radio communication inside a vehicle with noise cancellation, weather protection, and protection from impacts on vehicle elements.

- Installation and modernization service in all types of transport, stationary and armoured vehicles and vessels.

- Maintaining in-vehicle communications and dual-net possibilities for command, reporting and acquisition of tasks.

• **Continuous power supply systems** are used for continuous power supply of HF/VHF and other radio systems, either stationary or in-vehicle.

• **Battery chargers, voltage converters, solatrons, solar chargers.**

• **Batteries** (NiCd, NiMH, Li-ion)

• **Repair** of the above mentioned systems and products, **field maintenance, overhaul, technical assistance, new equipment testing, training, providing technical documentation.**

Complete professional communications program, **Motorola** analog and digital radio devices, **TETRA** user devices and microwave links. We also offer all the accessories (batteries, discrete handsets, encryption modules, chargers, etc.) and spare parts for all groups of products. In addition, we offer maintenance documentation and software support. Apart from Motorola accessories, we offer equipment by other manufacturers (Ceotronics, Transcript, Tempco, etc.) and professional audio, video and data communication systems by various brands (prior consultation included) and their accessories.

ŠESTAN-BUSCH

The company ŠESTAN-BUSCH manufactures lines of plastic products and composite products. In the field of military equipment the company produces ballistic protection devices, biological - chemical protection products, plastic parts and other equipment.

ŠESTAN-BUSCH is a modern private company and the manufacture is under continuous control of the company's experts trained for defence production and under the external control of export partners, according to ISO 9002 standard. The company has a constant cooperation concerning the development of new materials with well-known institutes from Croatia, Germany, Italy, the U.S.A., Spain and other countries.

ŠESTAN-BUSCH has modern technologies, which are in compliance with complex demands of military equipment production. The company products reach and surpass the top of world quality of military production and, above all, it is important to mention:

- combat composite helmets which are of high protection level - V50 over 700 m/s.
- personal decontamination kit UPOD M1 and M2,
- different technical items made of plastic materials and for special purposes.

ŠESTAN-BUSCH continually follows and takes part in developing new



PK-RIOT

materials, conducting new research concerning protection and also concerning comfort and design of riot helmets and other products. New protection helmets for riot armoured vehicle and piloting helmets, are being developed and also some other new products which are necessary in the protection of modern soldiers, sportsmen and men.

Šestan-Busch is a winner of "Zlatna kuna" reward as the best small company, in the years 2005 and 2006. It employs 50 workers.

The products are exported to more than 30 countries all over the world. The patents on special production procedure of helmets have been obtained and the ballistic characteristics have been improved by 50 %.

In the year 2008, the company expanded the offer with a new helmet which has no screws. With this improvement all weak points on the riot helmet are avoided. The patents have been obtained for this type of helmet as well.



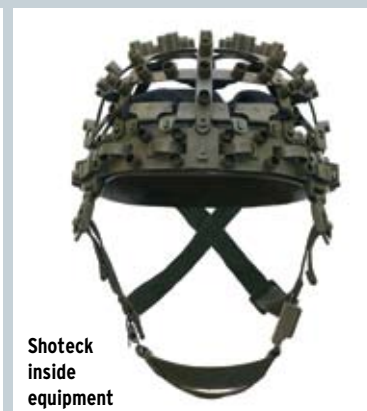
BK-M3, ballistic helmet



BK-3, ballistic helmet



BK-RAZ, ballistic helmet



Shoteck inside equipment

TEHNOMOBIL

Tehnomobil d.o.o. is the leading Croatian company in areas of technical security, building management and risk detection and management. After years of doing business we have become an equivalent for product quality, staff organization and a strong team of engineers providing system planning, designing, engineering, installation and long-term maintenance of highly-professional systems in the areas of: video surveillance, fire detection, gas detection, intrusion detection, access control systems, automatization, special detections, smart home systems, car-park control systems and central monitoring systems.

Our systems can be found in government buildings, banks and other financial institutions, industrial facilities, educational and research institutions, telecommunications, transportation, retail and logistic buildings, hotels, energy industry, etc.

Apart from Croatia, Tehnomobil d.o.o. has branch offices in Sarajevo (Bosnia and Herzegovina), Novi Sad



and Belgrade (Serbia), and Pristina (Kosovo).

We believe that our solutions do more than keep up with our partners' business. They help them manage it. By integrating risk management, security technologies and system management, as well as specific needs of our customers, we offer more than traditional technical safety systems. Our proven solutions offer advantages to organizations of different sizes and businesses. Our experience and expertise enable us to answer specific risk management needs of our partners. Whether our partners need consultation or advice in the design phase or effective solution to a security problem, our expertise and our time is at their disposal.

Rapiscan systems

Because threats are constant and evolving, force protection needs to be continuous, relentless, and ready to go in any environment. Military clients around the world turn to Rapiscan Systems' multi-layered security solutions to identify potential dangers and prevent damage.

RAE systems

RAE Systems offers a broad range of personal and area protection gas detection instruments for civil defense and military applications. These products are ideal for continuous detection of invisible threats such as radiation and toxic and combustible gases in confined spaces—from wing tank entries to more complicated wireless public venue events.

Morpho detection

Morpho delivers products and solutions for governments, national agencies and administrations dedicated to law-enforcement and border control, as well as private companies in need of secure physical or logical access control.

Military teams have a critical need to counter evolving threats against military personnel, equipment and installations. Built around a core of field-proven explosives and narcotics detection technologies, and designed for challenging environments, detection products from Morpho are optimized for military use with user-friendly interfaces and longer battery life for extended operations.

TEHNOMONT

TEHNOMONT is a group of companies, located in Pula, Croatia, oriented to shipbuilding, nautical tourism, and renewable energy sources. Members of the group are TEHNOMONT-BRODOGRADILIŠTE PULA d.o.o. (shipbuilding and ship repair), TEHNOMONT BMN d.o.o. (light steel constructions, solar collectors and water heating plants) and TEHNOMONT MARINA VERUDA d.o.o. (berthing for about 800 boats and yachts).

TEHNOMONT-BRODOGRADILIŠTE PULA d.o.o. (Shipyards) has a tradition of over 100 years, and is able to build any type of steel hulled boat/ship of up to 50 m Length Over All (LOA), and aluminium hulled fast patrol boats of up to 25 m LOA. The Shipyards is building ships on the basis of designs made by carefully selected Croatian and foreign (Scotland, Netherlands) design companies specialized in design of a particular type of ship, and is certified by the Classification Society Bureau Veritas. Shipyards' products are fishing boats of all types, work boats,



first aid and fire fighting boats, boats for tourism, passenger catamarans, and fast patrol boats.

Our experienced workers and staff are the guarantee of high quality and performance. Respectable value of Shipyards' property guarantees efficient financing of any project, and sufficient collaterals for first class bank refund guarantees.

TEKSKO MREŽA

TEKSKO MREŽA d.o.o. is a limited liability company from Zagreb which was initially a Croatian Special Equipment Cluster from October, 1 2006 until August, 1 2009 within the National Centre for Clusters in the Croatian Employers Association (HUP). After the company left the HUP in 2009, it started trading as an independent business under the current name.

The new cluster was founded by MTČ Tvornica čarapa from Čakovec, MTČ Tvornica rublja also from Čakovec, Jacquard Zagreb, GALKO Mali Bukovec and Davor Knitwear stock company from Osijek. The company was joined by two more members in August and September 2009 – JADRAN Galenic Laboratory from Rijeka and IKOM Kovnica from Sesvete near Zagreb. Kunateks, a company from Pregrada joined in 2010 as well.

MTČ Tvornica čarapa produces socks and knitwear and MTČ Tvornica rublja is a stock company that produces men's and women's textiles and clothing as well as sports apparel. Jacquard Zagreb produces fabric patches; flags; labels; sports, police and military insignia; bands; pendants; hats and bags while DAVOR Knitwear is well-known for its knitted fabrics and clothes such as vests, T-shirts, waistcoats and pullovers. GALKO makes leather handbags for all occasions, fashion accessories, business gifts, and other fashion products. IKOM Kovnica produces medals, pins, buckles, plaques, cufflinks, buttons and military rank insignia while JADRAN Galenic Laboratory is an international pharmaceutical company with a wide spectrum of branded generic products, focusing on medicinal products for sensory organs. The latest addition

to our team is KUNATEKS, a protection wear company.

TEKSKO MREŽA holds an office in Kuala Lumpur, Malaysia and represents an international Indonesian textile corporation *PT INDORAMA Synthetics* with an office and a warehouse in Zagreb. The main activities of this cluster are bringing the cluster members closer together, managing joint projects and supply, reducing business costs and increasing productivity and the level of development, carrying out promotional and logistic activities, creating new business opportunities and reaching out to new markets in Southeast Asia.

TEKSKO MREŽA was voted the most successful Croatian cluster last year.

Members of TEKSKO MREŽA are exhibiting their products at ASDA 2011. MTČ Tvornica čarapa and MTČ Tvornica rublja from Čakovec are dis-



playing men's military socks, officer's socks, wool watch caps, and men's military T-shirts and long-sleeve shirts. Jacquard company is exhibiting their fabric patches, rank and other military insignia and IKOM Kovnica is displaying their metal medals, ranks, orders of military merits, plaques and military buckles and buttons used on officer uniforms. Davor Knitwear from Osijek is presenting their line of camouflage vests and officer's vests. GALKO is participating with their leather officer's bags, leather officer's uniform belts and other leatherwear for the military.



In the 22 years of its existence, TEMA has developed a series of electrical motors with permanent magnets ranging from 0.5 to 1,500 kW. These machines are of different nominal rates, supply voltage, technical performance and applications. They are intended

TEMA

for use in industrial plants, transport, shipbuilding and defense industry.

These electrical motors are technological champions in practical realization today, considering their high efficiency, compact and robust design, high level of drive redundancy, low operating temperature and the simplicity of the cooling system.

In order to reach the maximum of their abilities, these types of motors have to use complex energy electronic systems that are run by a powerful industrial computer which runs an advanced algorithm in order to manage

the entire system in real time. For this reason, they are also called electronically commutated motors.

These motors are synchronous and as such can be used as highly efficient, robust and compact motors or as power generators featuring increased RPM and frequency.

Electrical motors with permanent magnets are in serial production in four basic groups – LPMR, LPMG, MWB400 and SPM132. Nominal power of these motors is between 10 and 1,200 kW, nominal speed is up to 3,000 rpm and nominal torque ranges between 70 and 6,500 Nm.

WERKOSGROUP

WERKOSGROUP is an engineering group specialized in the development and production of multipurpose equipment for temporary settlement and storage, protection of humans and material goods in peace and war alike, as well as in case of natural disasters.

Production includes tents, field fold-up beds and mobile systems for flood protection:

- 1. Tents** (small, large, warehouse, sanitation, decontamination, kitchen, air, etc.)
- 2. Fold-up beds** (aluminium and steel construction)
- 3. Mobile flood protection systems** (water barrier, geomembrane for embankment protection against seepage)

Our equipment became recognizable for its multifunctionality, efficiency and installation simplicity and speed. In 2004. Werkos d.o.o. has been awarded NCAGE code A009B (NATO Commercial and Government Entity Code) and NATO stock



number (NSN) for products Tent Large V-01-W and Tent Small M-01-W. The codification into the NATO system is one of important recognitions of high quality necessary for internationalization of our business worldwide.

TENTS:

SMALL – M-01-W; M-09-W – accommodation for max. 3 persons
LARGE – V-01-W; V-09-W/1; V-09-W/1 – accommodation for max. 12 persons

WINTER – Z-09-W – special thermoizolation roof material with installed beds, accommodation for max. 10 persons

SANITATION – S20-09-W; S48-09-W – outer cloth cover with cotton inner lining, accommodation for max. 8 persons (S20-09-W) or max. 20 persons (S48-09-W)

SPECIAL PURPOSES – R40-09-W; R40P-09-W; R37-09-W; R24-09-W – tents for accommodation of persons, material and vehicles, special thermoizolation roof material



WAREHOUSE – V-01-W; H-09-W – accommodation of material and vehicles max. 70 m² (V-01-W) or 84 m² (H-09-W)

AIR – A-09-W – rapid installation/deinstallation, inflated using an air compressor

FOLD-UP BEDS:

ALUMINIUM L-04-W – weight 8 kg, synthetical mattress for easier maintenance

STEEL L-04-W – weight 11 kg, impregnated cotton mattress for improved comfort

MOBILE FLOOD PROTECTION SYSTEMS:

WATER BARRIER a system for swift elevation of flood protection embankments

GEOMEMBRANE FOR EMBANKMENT PROTECTION AGAINST SEEPAGE – prevents seepage of earth embankments during high water levels and especially during longer periods of water pressure onto the embankments.



AERONAUTICAL TECHNICAL CENTER (ATC)

Aeronautical Technical Center (ATC) is a joint stock company founded by the Republic of Croatia. Its core activities include maintenance, overhaul and repair of aircraft (planes and helicopters) as well as aircraft components. It is a part of a 90-year-old aviation tradition in Croatia.

The Centre's facilities spread on a surface of 230.000 m² with a direct access to the Zagreb Airport runway. The company has its own heliport as well.

ATC's employees and its management have a rational, responsible and efficient approach to business as well as all the necessary equipment for aircraft maintenance. Our partners can count on a fast, reliable and high-quality service that includes an innovative and evolutionary approach to the assignments at hand.

The company currently provides maintenance works on the following aircraft:

- aircraft in the military register,
- training aircraft Pilatus PC-9(M) and Bell 206B-3,
- jet fighters MiG 21UMD and MiG 21bis D,
- transport aircraft Mi-8MTV-1 and Mi-171Sh and
- firefighting aircraft CL-415, Air Tractor AT-802A "Fire Boss", and AT-802F.

Apart from the military program, ATC also provides services at the civil market, to aircraft in the civil register. These works mainly include annual structure and engine inspection, interior overhaul and paint work due to registration or validation of the certificate of registration.

ATC is also performing re-attestation of avionics components and minor aircraft components repairs. These activities are going to reach full application in the near future since the company is currently finishing the process of becoming an authorized organization according to EASA Part 145.

High quality of aircraft and equipment maintenance is achieved in well-equipped workshops and laboratories:

- Metrological Laboratory (calibration of measurement and testing equipment),



- Non-destructive Testing Laboratory,
- Chemical Laboratory (polymer, elastomer, seal, coating and adhesives definition) and
- Universal Test Bed ("Testfuchs") for rotating and non-rotating hydraulic components.

Other ATC activities include:

- Mi-8MTV-1 firefighting helicopter buckets are inspected and maintained,
- design and production of ground equipment,
- production of a collection of spare parts,
- construction and production of airborne target systems and
- production of inert training bombs.

The technologies at ATC's hand are as follows:

- 2 axis turning CAD/CAM system,
- 3 axis milling CAD/CAM system,
- 3 axis CAD/CAM engraving,
- galvanization (Zinc coating and anodizing),
- thermal treatment,
- repair welding and
- tube formation.



International Exhibition and Conference for Defense, Homeland Security, Safety & Security and Aerospace

Adria-Mar Shipbuilding Ltd.	STAND 735	Fujifilm	STAND 528	Panasonic Marketig Europe GmbH	STAND 737
Aeronautical-Technical Center		Fujinon	STAND 528	Panhard General Defense	STAND 1817
J.S.C.-Zrakoplovno-Tehnički centard.d.	STAND 2813	G.T. Automobili d.o.o.	STAND 1017	Panorama Difesa	STAND A105
Agencija Alan d.o.o.	STAND 1245	GALEB d.d.	STAND 1245	Pearson Engineering	STAND 523
Air Tractor	STAND 123	Gavrilović d.o.o.	STAND 1823	Perigon d.o.o.	STAND 1035
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Airbus Military	STAND 2615	GHR-CHD Grupacija za humanitaro razminiranje u inozemstvu	STAND 1245	Podravka d.d.	STAND 310
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Atlas Elektronik GmbH	STAND 1235	HS Produkt	STAND 1009	Rafael	STAND 709
AUSTRAL Shipyards	STAND 113	HSM informatika d.o.o.	STAND 105	RedTech d.o.o.	STAND 2113
Avon Protection	STAND 125	I&I d.o.o.	STAND 528	Reson	STAND 1723
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Cobham Surveillance GmbH	STAND 2613	Kongsberg Defence&Aerospace	STAND 729	Selex Sistemi Integrati SPA	STAND 1509
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FAM	STAND A102	NCP Repair Shipyard	STAND 1721	U.S. Commercial Service Croatia	STAND 1229
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		Optix Co.	STAND 137		
		Otis Technology	STAND 1035		

Source: Organizer