



PT. GARUDA ANGKASA BIRU

■ AIRCRAFT MAINTENANCE ■ REPAIR ■ OVERHAUL ■ SUPPLIER



COMPANY PROFILE

Excellence in Aviation
Maintenance, Repair & Overhaul

Data Perusahaan



Nama Perusahaan

PT. GARUDA ANGKASA BIRU

Alamat

Jl. Cireundeu Raya

Ruko Bali View Point Blok A No. 6-7 Pisangan,

Tangerang Selatan 15419

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Fax : +62-21-7408310

Email : garudaab8@gmail.com

Akte Pendirian

Notaris H. Dana Sasmita, SH

No. 40

Tanggal 08 Desember 2005

Pengesahan Kemenkumham

No. C-00384 HT.01.01. TH 2006

Tanggal 05 Januari 2006

Penanggung Jawab

Nurul Masjidah, SE

Direktur Utama

SIUP: 503/000162/00053-DPMPTSP/30-08/PB/XII/2017

TDP: 30.08.1.46.01602

NPWP: 02.504.440.5-411.000

API: 280801519-P

NIB: 9120208310543



Kapabilitas Perusahaan



- Supply & Overhaul Helicopter & Component MI-17



- Supply & Overhaul Engine and Component PT6T Series



Kapabilitas Perusahaan



● Repair & Overhaul Avionics, Radio, Instrument of Aircraft



● Supply Spareparts and Component of Helicopters & Aircrafts



Representasi



CÔNG TY CỔ PHẦN DỊCH VỤ KỸ THUẬT TRỰC THĂNG HELICOPTER TECHNICAL SERVICE COMPANY

Add: Vung Tau Airport, No. 36, 30/4 str., Ward 9, Vung Tau City, Vietnam
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Email: contact@helitechco.com.vn - Website : www.helitechco.com.vn



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Pratt & Whitney Canada

A United Technologies Company



Licenses and Certificates



Certificate of conformity № АТИ-110319.005 by the Ministry of Transport of Russian Federation for supply and repair of aviation equipment.



License № 12584-AT by the Ministry of Industry and Trade of the Russian Federation for development, manufacturing, testing and repair of aviation equipment.



Certificate of conformity AT GOST ISO 9001-2011/GOST PB 0015-002-2012 for quality management system by the Institute of test programs and military equipment for development, piece-production and individual wholesale, repair of the types of military production.



Pengalaman Perusahaan



Overhaul 2 Unit Helikopter Mi-17V5 PI 1500 Jam/7 Tahun

No Keputusan : 1281/DN/ALUT/PUSPNB/2019
Pemberi Tugas : Mabes TNI Angkatan Darat Jakarta

Pengadaan Sucad Harmen Engine dan Airframe Casa NC-212 P-850

No Keputusan : KTR/02/02-04/I/2019
Pemberi Tugas : Mabes TNI Angkatan Laut Jakarta

Pengadaan Sucad Lisment dan Avionic Casa CN-235 P-864

No Keputusan : KTR/13/02-04/I/2019
Pemberi Tugas : Mabes TNI Angkatan Laut Jakarta

Pengadaan Sucad Engine & Airframe Harmen Bolkow BO-105

No Keputusan : KTR/23/02-04/VII/2018
Pemberi Tugas : Puspenerbal Surabaya

Perbaikan / Pengadaan Komponen Engine Helikopter Bell 412

No Keputusan : 716/DN/ALUT/PUSPNB/2018
Pemberi Tugas : Mabes TNI Angkatan Darat Jakarta

Perbaikan Komponen Engine Helikopter Bell 412

No Keputusan : 1257/DN/ALUT/PUSPNB/2017
Pemberi Tugas : Mabes TNI Angkatan Darat Jakarta

Perbaikan/Pengadaan Komponen Lisira Pesawat Terbang/Helikopter

No Kontrak : 1778/DN/ALUT/PUSPNB/2017
Pemberi Tugas : Puspenerbad Jakarta

Pengadaan dan Pemasangan Vibration Damper Helikopter MI-17V5

No Kontrak : 371/DN/ALUT/PUSPNB/2017
Pemberi Tugas : Mabes TNI Angkatan Darat Jakarta



Pengalaman Perusahaan



Line Maintenance Skadron-12/Serbu Puspenerbad

No Keputusan : SPK/431/IV/2017
Pemberi Tugas : Skadron-12/Serbu Way Kanan Puspenerbad

Pengadaan Accessories Engine Helikopter Bell 412

No Keputusan : 1090/DN/ALUT/PUSPNB/2017
Pemberi Tugas : Mabes TNI Angkatan Darat Jakarta

Pengadaan Suvad Engine & Airframe Pesud Casa NC-212

No Keputusan : KTR/02/02-04/2017
Pemberi Tugas : Puspenerbal Surabaya

Jasa Pengecatan 3 Unit Helikopter MI-17

No Keputusan : KJB-02/DN/PALKOMLEK/I/2017/BABEK
Pemberi Tugas : Badan Pembekalan TNI Jakarta

Jasa Mantle/Dismantle Helikopter MI-17

No Kontrak : KJB-02/DN/PALKOMLEK/I/2017/BABEK
Pemberi Tugas : Badan Pembekalan TNI Jakarta

Pengadaan Suku Cadang NC-212 APBN-P

No Kontrak : TRAK/1402/XI/2016/APBN-P
Pemberi Tugas : Baranahan Kemhan Jakarta

Pengadaan dan Perbaikan Line Maintenance Skadron-11/Serbu

No Kontrak : 633/DN/ALUT/D-11/iIV/2016
Pemberi Tugas : Skadron-11/Serbu Puspenerbad Semarang





CÔNG TY CỔ PHẦN DỊCH VỤ KỸ THUẬT TRỰC THĂNG HELICOPTER TECHNICAL SERVICE COMPANY

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Tel: (+84.64) 3577754/55

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Email: contact@helitechco.com.vn - Website : www.helitechco.com.vn





Based good ties among engineering Helicopter Factories of SNG union and Vietnam, on March 03, 1994, by which signed a contract to establish “Bienhoa Joint-Venture Helicopter Repairing Company”, BHC for short.

We had maintained and overhauled many helicopters and related accessories for more 16 years for domestic and foreign customers as: SSFC, NSFC, Alpac Ltd. (Russia), Mesco Airlines Ltd. (India), Jagson Airlines Ltd. (India), Hevilift Ltd (Australia), Lao Air, VIP squadron of Cambodia...with high reliability. And at the same time also actively promoted trade with countries in the region. Concurrently, we always improve quality systems, technical library and human resource in order to enhance the quality for finished goods and to ensure development sustainability.



Mr. Tran Ngoc Hung
General Director

In 2004 with the anticipation of SFC Vietnam, the company would be a repairing, maintaining technical aviation facility dynamically, diversified and to be a confident address of domestic and foreign customers.

From date May 25, 2010, the new name of our company which called: HELICOPTER TECHNICAL SERVICE COMPANY and abbreviated should be: HELITECHCO. We wish the new name will bring a new wind for next bright generation and always together inherit such achievement from the old one.

With nonstop endeavour we are progressively master of technology; improve positively and totally in order to conform with helicopter manufacturers requirements and international standard. Accordingly, we were appreciated and certified by aviation authorities.

Present members of Helitechco including:

● **VIETNAM**

- 1- Vietnam Helicopter Corporation.**
Add: 172 Truong Chinh street, Dong Da district, Ha Noi city.
- 2- Ministry of Defense Helicopter Repairing Company (A42 plant)**
Add: Bien Hoa airport, Dong Nai Province.

● **FOREIGN**

- 3- MIL helicopter engineering factory.**
Add: No 2, Sokolnichenskival street, Moscow city, Russia.
- 4- KAZAN Manufacturing helicopter plant.**
Add: Kazan city, Russia.
- 5- SERVET Limited Company**
Add: 107113 Moscow, Russia.





HELITECHCO

HELICOPTER TECHNICAL SERVICE COMPANY

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GROUND SUPPORT AND MAINTENANCE EQUIPMENT

AVIATECHSUPPLY Ltd. has experience of many years in design engineering and manufacturing of Ground Support and Maintenance Equipment for aircraft and aggregates repair and maintenance:

- Ground equipment;
- Tools and devices;
- Portable ground units;
- Test and control benches.

We are ready to deal with inquires for manufacturing of aviation equipment under Your technical requirements.

Tel.: +7 (383) 362 04 95
Fax: +7 (383) 200 29 09

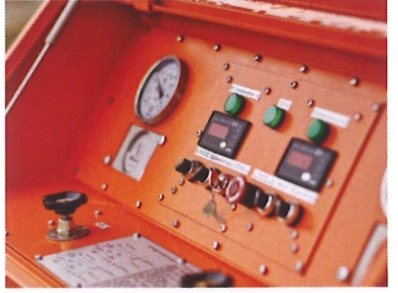
heli@aviats.com
aviats.com



PORTABLE GROUND UNITS

At the bottom of our own equipment production lies the experience of close working relationship with our Clients, knowledge of their needs and demands. At the present days we offer the fully efficiency own designed and produced equipment for on-ground servicing of the following aircraft systems:

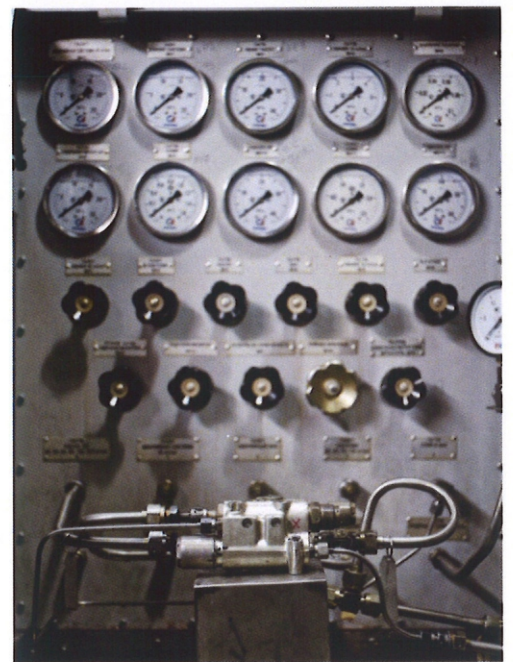
- Hydraulic;
- Air;
- Fuel;
- Oil;
- Fire protection;
- Anti-icing;
- Cooling.



TEST AND CONTROL BENCHES

Our Company makes design engineering and manufactures benches for check (approval) tests of aircraft systems and aggregates:

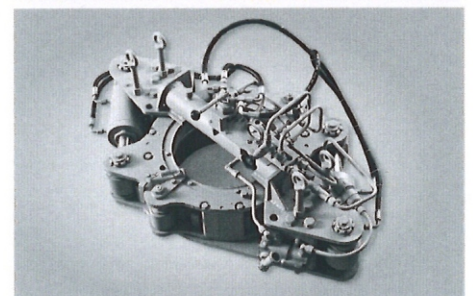
- Hydraulic panel testing benches;
- Fuel pumps;
- Hydraulic pumps;
- Convertors;
- Pressure automatic devices;
- Off-loading automatic devices;
- Aircraft compressors;
- Hydraulic boosters;
- Generators;
- Pipe-line testing benches;
- Transmission system testing benches.



TOOLS, DEVICES AND GROUND EQUIPMENT

We offer wide range of tools, devices and ground equipment for supporting, maintenance and testing of such aircraft types as Mi-2, Mi-8, Mi-17, Mi-26, Ka-32 as well as for Russian-manufactured fixed wing aircrafts.

- Hydraulic tongs;
- Tyre changers;
- Holder-up devices;
- Stairs and stepladders;
- Tow bars;
- Trolleys;
- Trestles;
- Different devices for components testing during maintenance of aircraft;
- Devices for schedule maintenance of hydro, air and fuel aircraft systems;
- Tools and tool sets.





GROUND SUPPORT AND MAINTENANCE EQUIPMENT

AVIATECHSUPPLY LTD. produces a wide range of Ground Support & Maintenance Equipment for schedule and technical maintenance of the aircrafts at the parking area, covered accommodations and hangars.

- Ladders and traps – universal, folding, dismantable, with adjusting of the working area;
- Trolleys;
- Tow bars;
- Trolley docs;
- Lifting equipment;
- Supports;
- Technological chassis.



JSC «Ural Works of Civil Aviation»

УУСА



www.uwca.ru

REPAIR OF TV2-117A (AG) TYPE ENGINES

▶ The overhaul of engine TV2-117 and its components is carried out under the supervision of the manufacturing facility Perm Engine Company OJSC at the Ural Works of Civil Aviation.

Our plant has developed and uses an automated measurement system (AMS) for the testing of the TV2-117A (AG) engine and its components.

Our technologies and repair management are continuously improving and growing.

Unique, copyright-protected technologies used in the process of repairing aviation equipment are:

- gas-plasma splatter (restoration of the inner diameter of rotor rings of engine TV2-117A, AG, and inner diameter of the 1st engine support frame for engines TV2-117A, AG);
- manufacturing of honeycomb seals;
- electron beam welding;
- plasma splatter for restoration of parts geometrics;
- production of graphite sealing rings for the 2nd engine support frame in TV2-117 AG engines;
- soldering in a protective atmosphere (guide wheel repair by replacing 100% of blades);

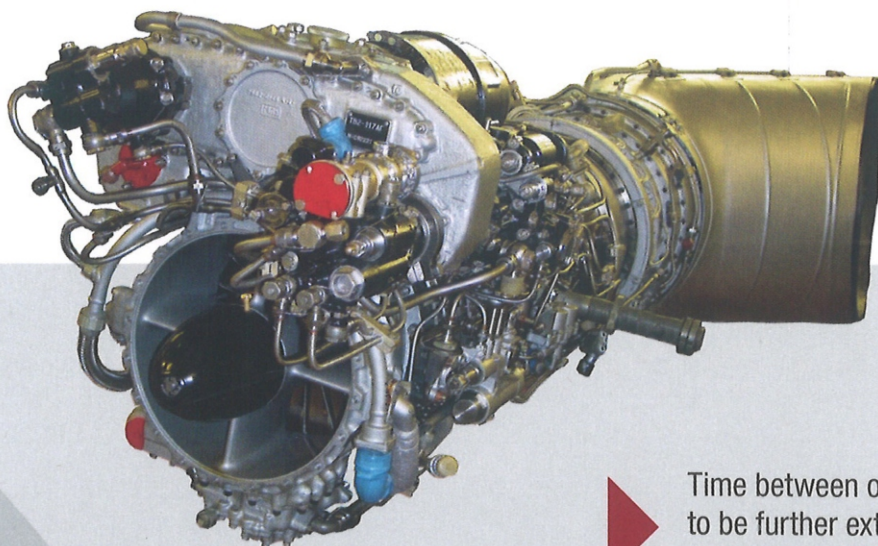
- high-energy vacuum-plasma technology for the protection of TC rotor blades and nozzle vanes from high-temperature erosion (SDP-2 diffusion coating).

Our plant has developed and successfully uses unique technological processes in the restoration of geometric dimensions of rotor compressor parts for TV2-117A, AG engines and in the application of protective erosion-resistant coatings:

- restoration of parts geometrics using a laser surface coating method;
- restoration of blade geometrics using an argon-arc welding method with subsequent mechanical treatment;
- protection of compressor parts from the erosive effects of air-sand mixtures using a method of ion-plasma spraying of the EP-7 coating with a mixed nitride-titanium-zirconium base.

Complete overhaul of TV2-117A engines and their components in accordance with the «Overhaul manual» began in 1973. In May of the same year, after a complete overhaul, five TV2-117A engines were produced at UWCA.

In 1986, we established complete overhaul of TV-117AG engines with graphite sealing rings for the 2nd engine support and the conversion of model «A» into «AG», enacted by technical bulletins.



▶ Time between overhaul – 1,500 hours to be further extended to 2,000 hours. Service life limit – 12,000 hours.

REPAIR OF TV3-117 TYPE ENGINES (all modifications)

The overhaul of all models of engine TV3-117 and its components is carried out under the supervision of the manufacturing facility JSC «Klimov» at the Ural Works of Civil Aviation.

Our plant has developed and uses an automated measurement system (AMS) for the testing of the TV3-117 engine and its components.

Technologies and repair management are continuously improving and growing.

Our plant has developed and successfully uses unique technological processes in the restoration of geometric dimensions of rotor compressor parts for TV3-117 engines and in the application of protective erosion-resistant coatings protection of compressor parts from erosive deterioration using the ion-plasma spraying method.

Unique, copyright-protected technologies used in the process of repairing aviation equipment are:

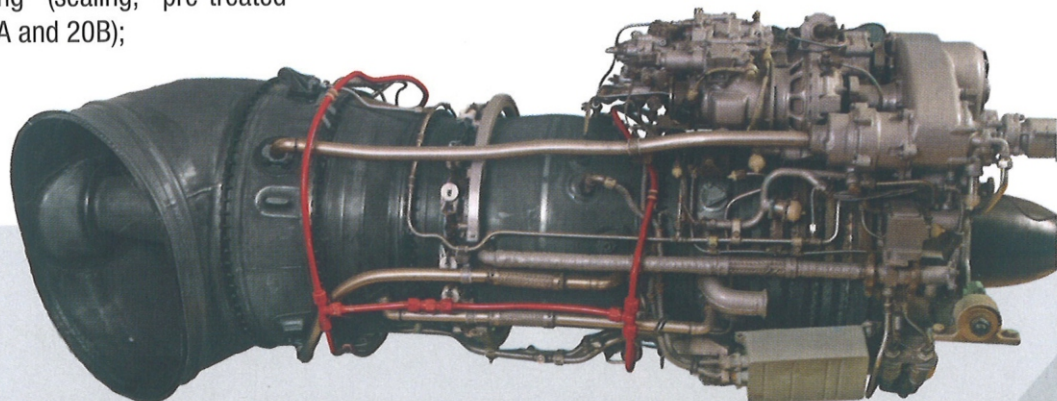
- application of the erosion-resistant coating EP-7 to compressor blades using ion-plasma spraying to prevent erosive deterioration of the engine air flow duct;
- high-energy vacuum-plasma technology for the protection of TC rotor blades and nozzle vanes from high-temperature erosion (VSDP-11 diffusion coating);
- plasma spraying (sealing, pre-treated coating such as KNA and 20B);

- gas-plasma splatter (restoration of the inner diameter of rotor rings of engine TV3-117 and the outer surface of the axles of the oil pump block in TV3-117 engines);
- manufacturing of honeycomb seals;
- electron beam welding;
- plasma splatter for parts geometrics restoration;
- production of graphite rings for the support frame;
- soldering in a protective atmosphere (guide wheel repair by replacing 100% of blades);
- electro-spark deposition;
- surface plastic hardening of compressor rotor blades of TV3-117 engines using 1 tbsp. of microspheres and pellets.

Modifications of NP-3VM, VMA into units NP-VM-T, VMA-T result in an increase in lifespan up to 6000 hours.

Much work is being done to improve the lifespan of purchased parts installed in repaired aircraft.

In November of 1995, we mastered the localized repair of TV3-117 engines and the complete overhaul of TV3-117 engines (all models) and their components since October 1996. At JSC UWCA, we perform the modification of engines TV3-117 V, VK into TV3-117 engine model VM, per specific requirements.



Time between overhaul – 1,500 hours.
Service life limit – 4,500 hours
to be further extended to 7,500 hours.

REPAIR OF GTD-350 ENGINES

The engine was repeatedly improved during operation. The recent modification of GTD-350, IV series, has an improved structural configuration.

The GTD-350 gas turbine engine is intended for operation together with Mi-2 helicopter power unit consisting of two GTD-350 engines and VR-2 gear box.

UWCA, JSC has been providing overhaul services for GTD-350 engines since 2003.

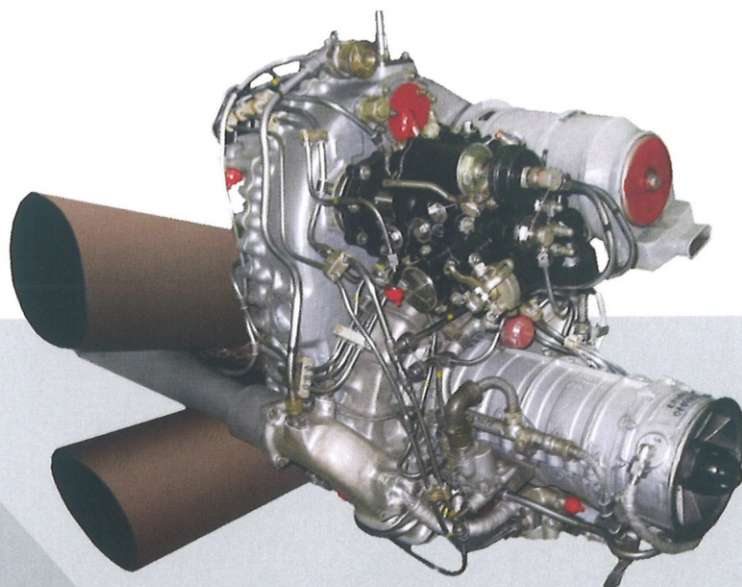
The repair process includes application of all advanced methods used for restoration of component parts.

The structural characteristics are improved during repair work through a number of modifications:

- providing the transition liner with an additional stiffening plate;
- retrofitting of the second support housing to improve performance of the bearing.



Time between overhaul – 1,000 hours.
Service life limit – 4,000 hours.



REPAIR OF VR-8A, VR-14, VR-24 MAIN GEARBOXES

▶ The main gearboxes of the VR family boast high reliability and long service life.

UWCA, JSC performs repair of VR-8A, VR-14, and VR-24 main gearboxes intended for operation in power units for Mi-8MT, Mi-14, Mi-17, Mi-8, Mi-8T, Mi-24, Mi-25, and Mi-35 helicopters.

When repairing main gearboxes, the Company applies special technological processes:

- electrospark alloying;
- strengthening and hardening;

- spraying (the shaft of the freewheel clutch of VR-8A gearbox);
- surface plastic deformation of component parts in VR-8A and VR-14 gearboxes as well as NK engines.

UWCA extends time between overhaul of VR-8A gearbox.

VR-8A

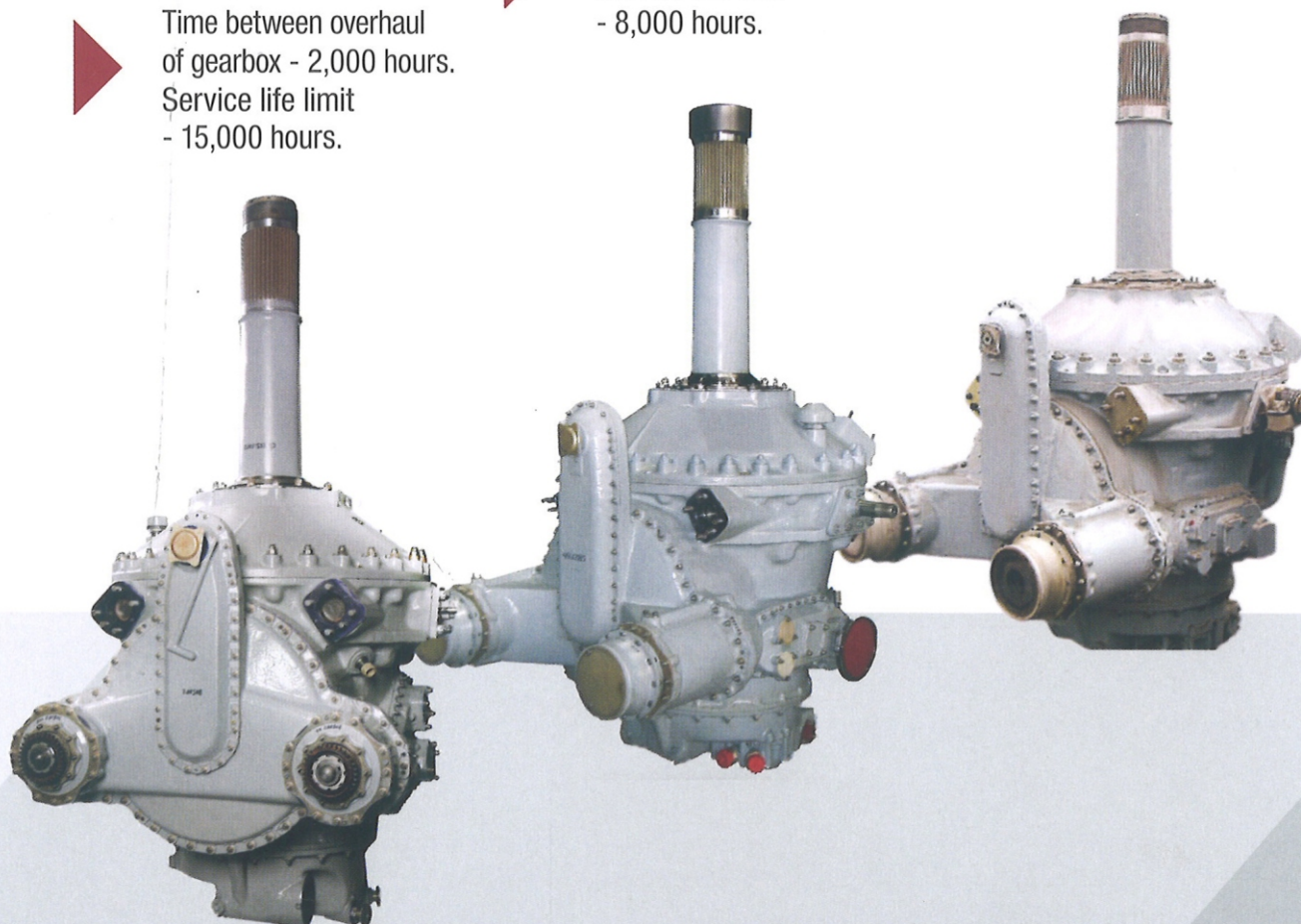
▶ Time between overhaul of gearbox - 2,000 hours.
Service life limit - 15,000 hours.

VR-14

▶ Time between overhaul of gearbox - 2,000 hours.
Service life limit - 8,000 hours.

VR-24

▶ Time between overhaul of gearbox - 1,000 hours.
Service life limit - 3,000 hours.

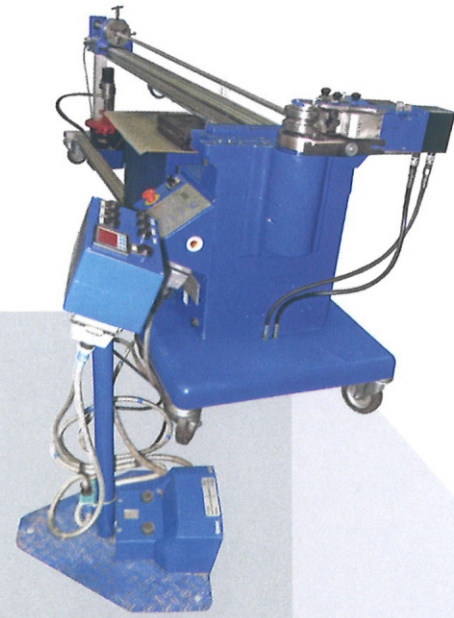
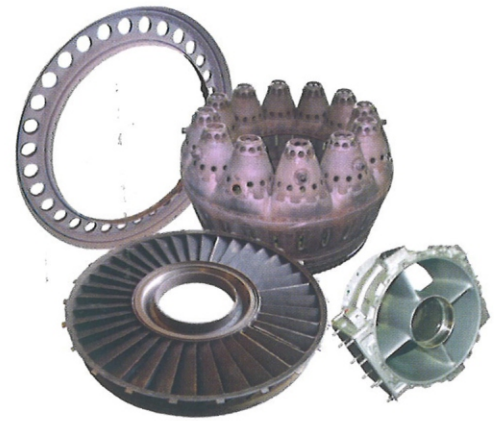


MANUFACTURING ENGINE COMPONENTS



UWCA, JSC takes pride in its certified small-scale manufacturing and the shortest time required to launch production of new items.

The Company's product list features more than 3,240 item names of component parts for aircraft engines. All parts have valid certificates.



MANUFACTURING OF BELL 407 HELICOPTER

▶ In 2015, the Ural Works of Civil Aviation was awarded a permit to assemble American Bell 407 helicopters.

Bell 407 is a light multi-purpose helicopter with a single Allison (Rolls-Royce) gas-turbine engine equipped with a digital electronic control (FADEC) system. The engine develops a maximum take-off power of 643 kW (862 shp). The helicopter has main and tail rotors.

The fuselage is made of composite materials represented by carbon fiber, glass fiber and aluminum. The helicopter is equipped with the latest Garmin G1000H navigation system and can seat up to 7 people, including the crew; the maximum useful load carrying capacity is 1,137 kg; the maximum cruise speed is 259 km/h.

Bell 407 has gained a reputation of one of the most comfortable and reliable helicopters; its maneuverability makes it multifunctional in performing different missions in evacuation, law enforcement, construction, etc.



MANUFACTURING OF L 410 UVP-E20 AIRCRAFT

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▶ In 2016, UWCA was awarded a permit to assemble Czech L 410 UVP-E20 aircraft.

The all-metal high-wing L 410 UVP-E20 aircraft has two GE H80-200 turbo-prop engines and AV-725 propellers. It is designed for transportation of passengers on regional routes. The L 410 seating arrangement can accommodate 19 passengers. The aircraft can also be used for cargo transportation and other missions.

The L 410 family aircraft are used in more than 50 countries worldwide. The L 410 has the highest demand in Russia, Africa, Southeast Asia, South America and Europe. The aircraft boasts excellent STOL capability in challenging weather conditions.

The L 410 UVP-E20 aircraft conforms to the ST302-L 410 UVP-E20 certificate; it is approved by the Interstate Aviation Committee; it is approved for manufacturing and operation in the Russian Federation.





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