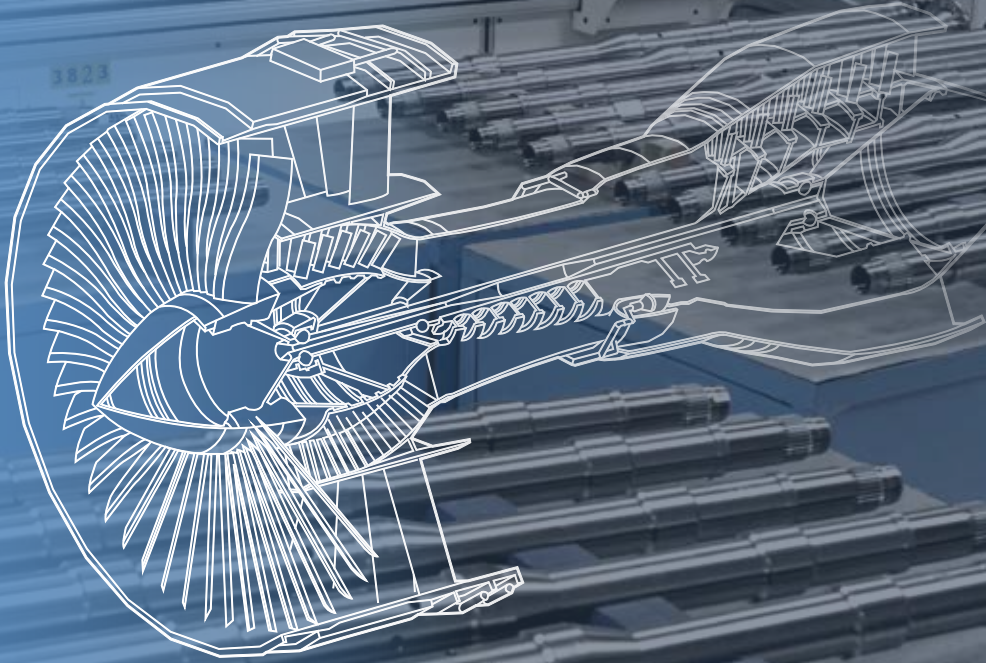




Advanced manufacturing and turnkey solutions for the international aerospace industry



JET ENGINE SOLUTIONS

Advanced capabilities and cutting-edge technology centers

For more than 5 decades, Ashot Ashkelon Industries has been supplying a wide range of solutions – including Turbine Engines High & Low Pressure Shafts; Engine Gearbox Driveshaft; Gearbox and Gears for a diverse installed base –covering Narrow Body Commercial platforms; Regional Jets; Business Jets; Military platforms (Fixed & Rotary Wing) and UAV.

Ashot's comprehensive expertise in engine shaft and parts production is based on cutting –edge technology centers and stringent quality standards as well as qualified personnel. A commitment to quality approach adheres to industry quality standards – AS9100D, ISO 9001:2015 and NADCAP certification for in-house special processes such as:

- Manufacturing engineering
- Deep hole boring and drilling up to 2.5 meters
- Turning & milling
- Gear and spline cutting (external and internal spline) and gear grinding
- Grinding and honing
- Heat treatments and surface treatments
- Non-destructive testing
- Coating and painting
- High speed balancing



Heat treatments department



Shafts production cell



Shaft balancing machine



HIGH LIFT SYSTEMS AND LANDING GEARS

Comprehensive solutions for a broad range of aviation applications

Ashot is renowned for high-level expertise and decades of experience in the design and manufacture of high lift system components and assemblies, and a comprehensive line of landing gear components, that meet the strictest aerospace standards.

Ashot is fully equipped to provide systems and subsystems from structural parts to turnkey solutions, delivered directly to aircraft assembly lines.

- Universal joints (U-joints)
- Plunging joints
- Diaphragm couplings
- Steady bearing joints
- Articulating joints
- Various types of transmissions and gearboxes (Kink, T and Bevel)
- Lever Bearing Arms (LBA)
- Long and short shafts for rotary actuation
- Actuation components for Landing Gear



Universal joints



Robot assembly line for universal joints



High Lift Systems production cell



TUNGSTEN WEIGHTS

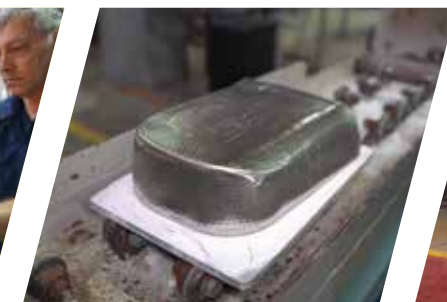
Dedicated Tungsten Sintering Plant

Ashot is a leading source for tungsten-based heavy metals in the aerospace industry. Our tungsten products are installed in a variety of aircraft and serve as balance weights in the wing fuselage, vertical (rudder) and horizontal (elevator) stabilizers, helicopter rotors (bifilar), propellers, and aerospace instruments. Our balance weights are primarily flight safety products.

Ashot's world-class sintering facilities and qualified personnel enable the manufacture of a wide range of tungsten alloys, from standard to tailor-made alloys according to customer requirements. Our state-of-the-art systems include metallurgical, chemical, and mechanical laboratories, and ICP spectroscope, scanning electron microscope, and other methods of chemical and mechanical analysis. Advanced machining capabilities and qualified personnel enable the manufacture of a wide range of part shapes, sizes, and weights.



Sintering Furnace



Sintered tungsten block



Nitrogen furnace



VERTICALLY INTEGRATED COMPANY

Full in-house processes and control: From development to delivery

Vertical integration ensures full control over all processes for the entire production and supply chain. With a strong emphasis on concurrent engineering, Ashot offers improved capabilities, superior quality, and on-time delivery.

All production and special processes are in-house, including machining (turning and milling), gear cutting and grinding, heat and surface treatments, assembling facilities, test benches for final inspection and testing, and 2D matrix encoding. We supply our products directly to the aircraft assembly lines.

We enjoy strong supplier relationships with leading Original Equipment manufacturers (OEM), as well as with governmental and defense organizations. Our customers benefit from long-term supply agreements and full turnkey production.



Capabilities

In-house processes: Built-to-print and built-to-spec

Offering a broad range of high-level built-to-print and built-to-spec turnkey products, Ashot is recognized as a premier supplier for leading OEMs in the aerospace industry.

Innovative solutions for aerospace components

Our R&D department develops built-to-spec product designs including geometric design, gear design, stress analysis material selection and test rigs, for metal and composite components. All designs comply with aerospace standards.

Quality

Quality control and testing

Ashot's Quality Management System complies with a wide range of customer specifications and applicable industry standards. All measuring, test equipment and tooling is calibrated in-house according to regulatory standards and customer requirements. In-house metallurgical, chemical, and mechanical laboratories enable strict quality control of incoming materials, as well as heat treatments and surface treatment processes.

Certifications:

- AS9100D
- NADCAP
- ISO 9001:2015
- ISO 45001
- ISO 14001



About Ashot

Ashot specializes in the manufacture of jet engine shafts, gears, transmissions, gearboxes, high lift systems components, landing gear components and tungsten products for the aerospace and defense industries. A leading source of cutting-edge systems and components, we offer decades of experience, innovative R&D, a highly professional team, and a strong commitment to provide world-class standards, end-to-end service, and exceptional customer satisfaction.

Our fully owned US subsidiary Reliance Gear specializes in the manufacturing of custom precision gears and assemblies for a wide variety of industries, including defense, aerospace, agriculture, mining, marine, oil and gas, printing, construction, industrial and commercial markets. Reliance Gear is an expert in lapped & ground tooth bevel gears sets and parallel axes gears.



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