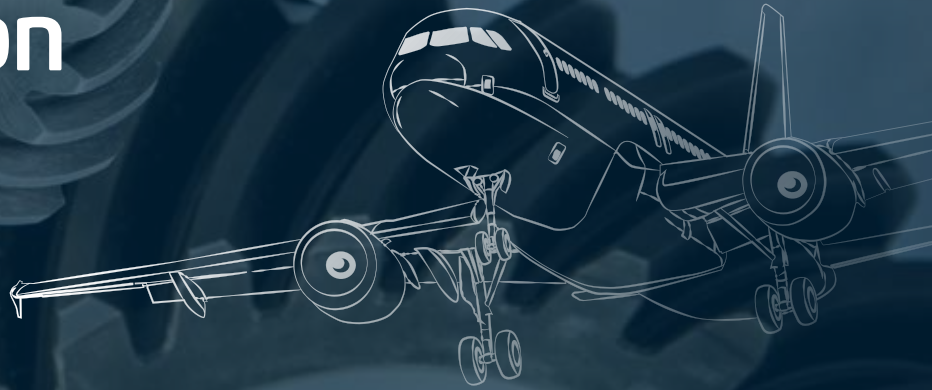


High-Precision Gear-Based Components



For more than five decades, Ashot Ashkelon Industries has been supplying aircraft manufacturers, engine manufacturers, Tier-1 system and subsystem manufacturers around the globe with top quality / high-precision gear-based components. Ashot Ashkelon Industries Ltd. is a vertical integrated global center of excellence for high precision gears, transmissions and actuation components for various applications within the Aerospace & Defense industries.

Ashot Maintains a wide range of capabilities for gear design, production and testing:

- Gear cutting and grinding: up to AGMA 14, up to module 15 and 900 mm diameter.
- Machining: up to 2000 Kg. weight.
- Gear inspection: 1000 mm diameter, 2000 mm length and 725 kg. weight.

As vertically integrated and independent manufacturer of high-precision gear-based components, Ashot Ashkelon Industries Ltd. delivers its customers with top-quality products, on time. Every time.

Ashot Ashkelon Industries Ltd. global footprint offers agility, redundant production capability and complementary gear cutting capabilities which include:

- | | | |
|--------------------|---------------------------------|--|
| • Hobbing | • Broaching | • Surface treatment |
| • Grinding | • Milling | • Coating and painting |
| • Honing | • Turning | • Non Destructive Test (NDT) |
| • Lapping | • Deep hole drilling and boring | • Laboratories
(Chemical, mechanical and metallurgical) |
| • Hypoidal Cutting | • Testing facilities | • Assembly |
| • Shaping | • Balancing | |
| | • Heat Treatment | |

Center of Excellence of High Precision Gears:

- | | | |
|---------------------|-----------------------|-----------------|
| • Spur | • Helical | • Warm gears |
| • Straight bevel | • External helical | • Crowned gears |
| • Spiral Bevel (RG) | • Internal spur gears | • Splines |
| • Zerol® bevel (RG) | | |

Custom-made gears and transmissions:

- | | | |
|-------------------------------|-------------------------------|---------------------------------|
| • High precision detail gears | • Planetary | • Special reduction gear drives |
| • Parallel shaft | • Speed reducers / increasers | |

Ashot Ashkelon Industries Capability List:

Hobbing:

- CNC Vertical & Horizontal
- M1 – M15, D800 / H500

Gear Grinding: up to AGMA 14, D800 / H500:

- External grinding
- Internal grinding

Honing

Lapping

Hypoidal Cutting

Shaping:

- CNC & Convention
- M1 – M10, D1000 / H500

Broaching: Vertical & Horizontal

Bevel Gear Cutting and Grinding (RG).

Heat Treatment

- Hardening and tempering
- Carburizing
- Nitriding
- Carbonitriding
- Nitrocarburizing
- Induction hardening
- Press quenching
- Sub Zero HT
- Solution and Aging Aluminum alloy
- Aging HT steels
- Inert gas HT
- Stress Relief
- Vacuum HT (Hardening, Quenching, carburizing, annealing, solution and aging PH steels, tempering, stress relieve)

Surface Treatment

Shot Peening:

- Automatic Shot Peening (Steel & Glass beads media)
- Robotic Shot Peening

Chemical processing:

- Cadmium
- Copper
- Chrome
- SS passivation
- Alodine
- Black oxide
- Painting

NDT

- MPI (Magnetic Particle Inspection)
- FPI (Fluorescent Penetrant Inspection)
- Nital Etch Inspection

Industry & Regulatory Standards:

- Industry Standards: American Gear Manufacturers Association (AGMA) class up to 14, Din 1
- Regulatory Standards: ISO 9001:2018 / AS9100D
- NADCAP: Heat Treatments, NDT, Conventional Machining as a Special Process, Surface Enhancement, Chemical Process

