

#PrecisionFromAbove

 **Diamond**
AIRCRAFT



DA62 MPP SPECIAL MISSION AIRCRAFT

Meet the World's most Versatile and Efficient Special Mission Aircraft

Ready for New Challenges



Diamond Aircraft, headquartered in Austria with facilities in Canada and China, is one of the leading aircraft manufacturers in General Aviation. Founded in 1981, Diamond has pioneered many aviation firsts, achieved numerous milestones and received many industry awards. More than 5,500 Diamond aircraft are flown by private pilots, professional flight schools and institutions worldwide.

The Aircraft

Built with a robust carbon-fibre composite structure the DA62 MPP is powered by two 180 hp Jet-A1 piston engines. The Garmin G1000 NXi glass cockpit with integrated autopilot assists the crew to significantly reduce in-flight workload.

Versatility

The DA62 MPP can be used in a wide range of mission scenarios, including ISR, law enforcement, border patrol, maritime surveillance and aerial survey or flight inspection.

Operating Cost

Building highly efficient aircraft is a pillar of Diamond Aircraft's strategy to have the most economical aircraft in its class. The combination of high fuel efficiency and 100 hour maintenance intervals results in the lowest operating costs.

Tailored Concept

Our 'POD' philosophy of utilising a wide range of external containers that can accommodate most mission equipment available on the market, allows for efficient system integration.

SURVEILLANCE MISSIONS ENVIRONMENTAL INTELLIGENCE SURVEY FLIGHTS

Our Individual Brands

One Platform, different Missions



GUARDIAN

MISSION APPLICATION

- » Border Patrol
- » Maritime Surveillance
- » ISR Operations

EXAMPLE CONFIGURATION

Nose: EO/IR Camera
Belly: RADAR
Compartment: Line-of-Sight Data Link

The GUARDIAN keeps a watchful eye over the area of operation, loitering unnoticed overhead with unrivalled endurance. The information gathered by its sensors is transmitted in real-time via data link to decision-makers on the ground. Each year, government organisations fly more than 100,000 mission hours.

VANGUARD

MISSION APPLICATION

- » Search and Rescue
- » Disaster Management
- » Environmental Monitoring

EXAMPLE CONFIGURATION

Nose: EO/IR Camera
Belly: ViDAR
Compartment: IMSI-Catcher

The VANGUARD provides life-saving intelligence and situational awareness to rescue teams on ground for up to 8 hours. Monitoring damage to critical infrastructure caused by earthquakes, floods or fires, and locating missing people, are key capabilities of the DA62 MPP VANGUARD.

SURVEYSTAR

MISSION APPLICATION

- » Mapping/ Photogrammetry
- » Airborne Laser Scanning
- » Mineral Exploration

EXAMPLE CONFIGURATION

Nose: Airborne Laser Scanner
Belly: Large Format Camera
Compartment: Flight Management System

Highest precision combined with efficiency make the SURVEYSTAR a perfect cost-effective mapping aircraft. Thanks to the multi-sensor capability, a wide range of missions can be offered to meet various requirements. No matter whether you use lidar, a large format camera or a combination of both - with the SURVEYSTAR this is possible.

Turn Key Solution

360° Service for the Safety of Tomorrow



Like no other special mission aircraft supplier, the MPP concept offers a 360° turnkey solution with a single point of contact concept. Through our agnostic approach, we will guide you through the entire process from the definition of the problem to the successful completion of the mission.

Mission Equipment

As a turnkey solution, the MPP concept covers every step of your successful mission. We procure, integrate, test and validate your customised mission equipment.

Ground Stations

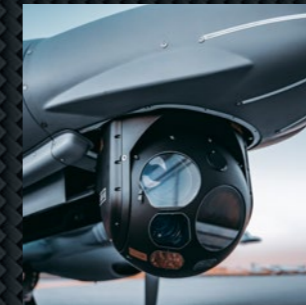
Our ground stations are tailored to meet individual customer requirements, ranging from mobile deployable solutions to the installation of complete command and control centres.

Trainings

The EASA-certified training organisation provides factory training to the highest standards for pilots and maintenance technicians. The MPP concept includes mission flight training and sensor operator training.

Support

With over 100 authorised service centres around the world, Diamond has a strong and extensive support network to ensure prompt support and spare parts supply.



Unique Features

Efficiency and Engineering at it's Best



Ultra-Low Direct Operating Cost



11 USGal in total per hour at 55% power



Up to 8 Hours of Endurance



Full Composite Airplane



JET-A1 Engines



Low Noise- & IR Signature



DA62 MPP Technical Specifications

Power Plant

| | | |
|-------------|---|--|
| Engine | 2 x Austro Engine AE 330 turbocharged common-rail injected 2.0 liter jet fuel engine with 180 HP and EECU single lever control system | |
| Propeller | 2 x MT propeller MTV-6-R-C-F/CF 194-80 3-blade constant speed propeller | |
| Fuel Grades | Jet A-1, Jet A, TS-1, RT, No. 3 Jet Fuel, JP-8 | |

Performance (MTOM, ISA)

| | | |
|--|-----------|----------|
| Minimum Operations Speed | 76 KIAS | 140 km/h |
| Maximum Cruise Speed (FL140 ft, MCP) | 192 KTAS | 356 km/h |
| Fuel Tank Capacity | 86 USGal | 326 l |
| Certified Service Ceiling | 20,000 ft | 6,096 m |
| Max. Range at 50% Power in total | 1,264 nm | 2,341 km |
| Take-Off Distance (50 ft obstacle / ISA MSL) | 2,897 ft | 833 m |
| Landing Distance (50 ft obstacle / ISA MSL) | 2,556 ft | 779 m |

Mass & Balance

| | | |
|-----------------------|-----------|----------|
| Maximum Take-Off Mass | 5,203 lbs | 2,360 kg |
| Empty Mass | 3,803 lbs | 1,725 kg |
| Payload Crew & Fuel | 1,268 lbs | 575 kg |

Specifications are based on clean aircraft without sensor or mission equipment. Specifications can differ depending on the specific sensor equipment. The above quoted data are approximately specifications and may change without notice.

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