



**RUSSIAN
HELICOPTERS**



UTILITY HELICOPTER

of Mi-171 type



Crew: 3



Weight of cargo
on the external sling:
4 000 kg



Contingency power:
2 700 hp



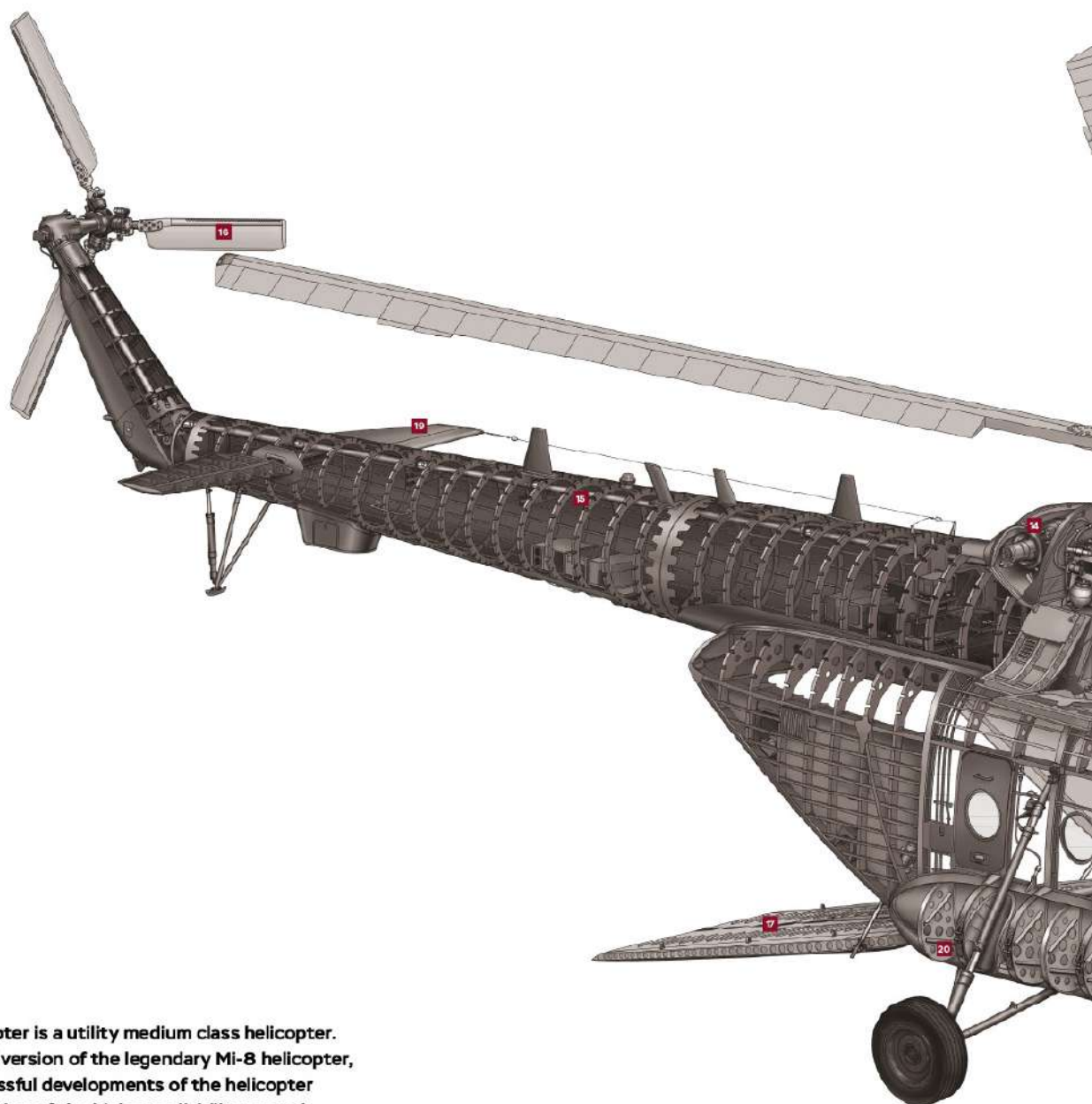
Range with main
fuel tanks:
715 km



Maximum speed:
250 km/h



MTOW:
13 000 kg



Mi-171 type helicopter is a utility medium class helicopter. It is a heavily modified version of the legendary Mi-8 helicopter, one of the most successful developments of the helicopter industry. The combination of the highest reliability proved by millions flight hours, mission flexibility, high performance together with state-of-the-art technologies and wide range of equipment allowed Mi-171 utility helicopter to earn operators' trust all over the world.

VARIANTS OF APPLICATION

- **Cargo transportation:**
 - 4 tons inside the cabin/ on the external sling
 - transportation of vehicles
 - transportation of long cargoes
- **Transportation of up to 37 people on folding seats**
- **Transportation of passengers** – up to 26 people on comfortable seats accompanied by a steward
- **VIP/VVIP transport** – exclusive high class interiors
- **Flights to off-shore drilling units** – high safety level and extended-range flights
- **Search and rescue operations** – round-the clock in all weather conditions
- **Medical evacuation** of up to 12 injured people accompanied by a medical attendant
- **Firefighting** – transportation of up to 4000 l of water/ fire-fighting crew, equipment to the site of fire
- **Patrolling** – wide range of mission equipment
- **Construction and assembly works** – accuracy and safety

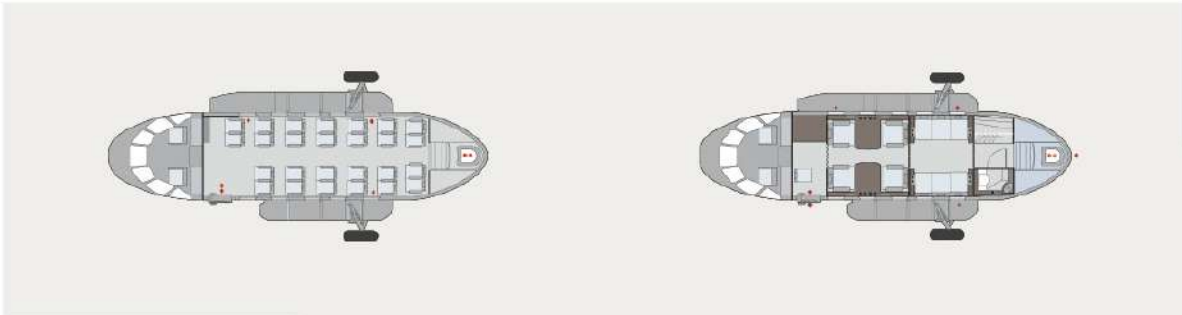
PASSENGER CONFIGURATION/ VIP CABIN

3  crew

12 seats  for VIP passengers

26 seats  passenger seats


12 000 kg  MTOW category A



Passenger configuration layout

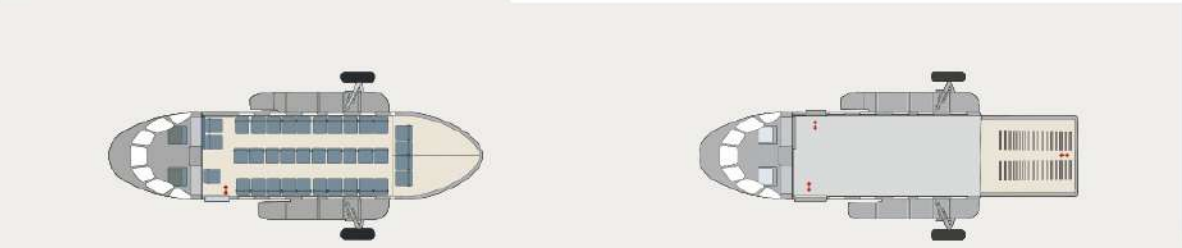
VIP-cabin layout

CARGO CONFIGURATION

4 000 kg  transportation of cargoes on the external sling/ inside cargo cabin

13 000 kg  maximum take-off weight with external cargo

23 m³  cargo cabin volume



Layout with folding seats

Layout of cargo variant with ramp

OFFSHORE CONFIGURATION

>30 min



helicopter flotation period
with deployed emergency
ditching system

2 700 hp

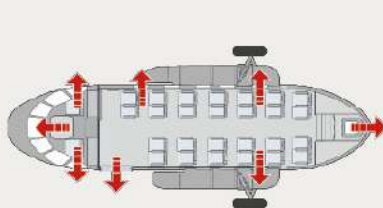


VK-2500-03 engine
contingency power

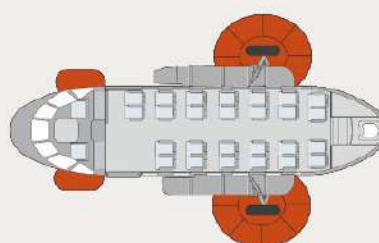
1 065 km



maximum range with two
auxiliary fuel tanks



Emergency exit layout



Layout of emergency exits

SEARCH AND RESCUE CONFIGURATION

250 km/h



maximum flight speed

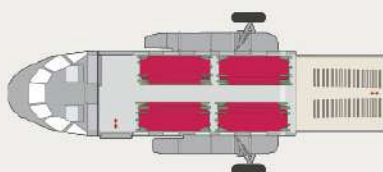
-50°C...+50°C

operating temperatures range

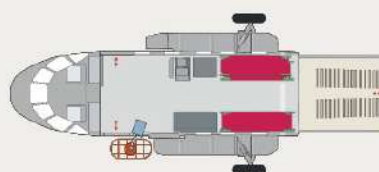
6 000 m



service ceiling



EMS configuration cabin layout



Layout of rescue configuration cabin

EQUIPMENT

COCKPIT

- Shock-absorbing pilots seats with safety belts
- Redundant basic flight instruments
- Windshields with anti-icing system, wipers and alcohol spray system



Fischer shock-absorbing seats with inertia belts



Passenger cabin

CARGO CABIN

- Maximum storage capacity of cargo cabin in the class:
 - cargo cabin (23 m³)
 - passenger cabin (27 m³)
- Capacity:
 - folding seats - up to 37 seats
 - passenger seats - up to 26 seats
 - stretchers - up to 12 seats
- Easy access to the cabin for loading: left sliding door, right widened sliding door, ramp-door (at the side or rear), cargo doors, ramp



VIP-cabin



Folding seats

AVIONICS

Standard avionics:

- altimeter (redundant)
- rate-of-climb indicator (redundant)
- air speed indicator (redundant)
- IAS controller
- compass
- artificial horizon (redundant)
- stand-by artificial horizon
- compass system
- heading indicator
- radio compass
- radio altimeter
- autopilot
- VHF/HF radio station
- intercom system

Optional avionics (produced by leading Russian and foreign manufacturers):

- radar range finder
- ATC transponder
- coding foot-graduated altimeter
- marker receiver
- doppler speed and shift meter
- weather radar
- automatic direction finder
- horizontal situation indicator
- GPS/GLONASS
- altimeter, rate-of-climb indicator, air speed indicator with British scale of measurement
- navigation and electronic indication suite with multifunctional LCD displays («glass cockpit»)
- emergency beacon
- emergency radio station
- stand-by VHF radio station
- aircraft and ground proximity warning systems
- underwater sonic beacon



Modern avionics

HIGH SAFETY LEVEL

- IAC AR type certificate
- Self-sealing fuel tanks
- Steel oil tanks and oil pipes
- Extended emergency hatches
- Redundant main systems



IAC AR type certificate for VIP configuration of Mi-171 helicopter



IAC AR type certificate for Mi-171 helicopter

ENGINES

- Two reliable TV3-117VM engines proved by million operation hours
- The provision is made for installation of more powerful VK-2500-03 engines
- Flight with OEI (in emergency situation) with maximum take-off weight
- Climbing with OEI (in emergency situation) with standard take-off weight
- Efficient engine air particle separator (2 variants)



PALL engine air particle separator

SPECIAL EQUIPMENT

- Two external hoists for 150 and 270 kg
- Hoist in door opening for 300 kg
- Hoist rescue equipment
- Devices for rappelling of up to 4 people simultaneously
- Parachuting devices
- Medical equipment
- Water-discharge device
- Passenger equipment
- Oxygen equipment for pilots and passengers
- Emergency ditching system
- Loudspeaker station
- Adaptation of the cockpit for the use of NVG
- Gyro-stabilized electro-optical system
- Search light (2 variants) (including IR filter)
- External sling (4,000 kg)
- Lashing equipment
- Non self-propelled vehicles loading device



Rescue operations

SYSTEMS

- Redundant hydraulic system
- Anti-icing system
- Firefighting system ensuring protection of all basic compartments
- Redundant power supply system with two brushless fire-proof generators
- System of: internal and external lighting, air conditioning, heating and ventilation

WIDE RANGE OF OPERATING CONDITIONS

- Any time of day
- VFR and IFR (visual flight rules and instrument flight rules)
- Various climatic conditions
- All latitudes
- IFR weather conditions
- Temperature -50° +50°C



Medical evacuation



LPG-150 hoist



Gyro-stabilized electro-optical system



Search floodlight

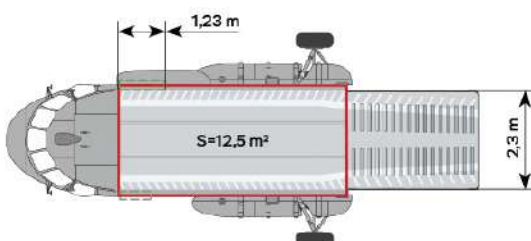
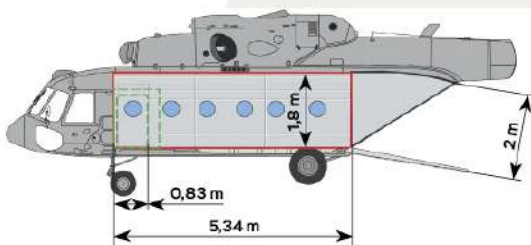


Operation with external sling

Mi-171



- 1 Weather radar antenna
- 2 Pitot
- 3 Pilot's shock-absorbing seat
- 4 Gyro-stabilized electro-optical system/ FLIR
- 5 Search floodlight
- 6 Main rotor blade
- 7 Hoist for 300 kg
- 8 External hoist for 150 kg
- 9 Loudspeaker
- 10 Engine
- 11 Main gearbox
- 12 Main rotor hub
- 13 Vibration damper
- 14 Auxiliary power unit
- 15 Transmission tail shaft
- 16 Tail rotor
- 17 Ramp
- 18 Air-conditioning and heating system
- 19 Stabilizer
- 20 Main fuel tank
- 21 Engine Air Particle Separator





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