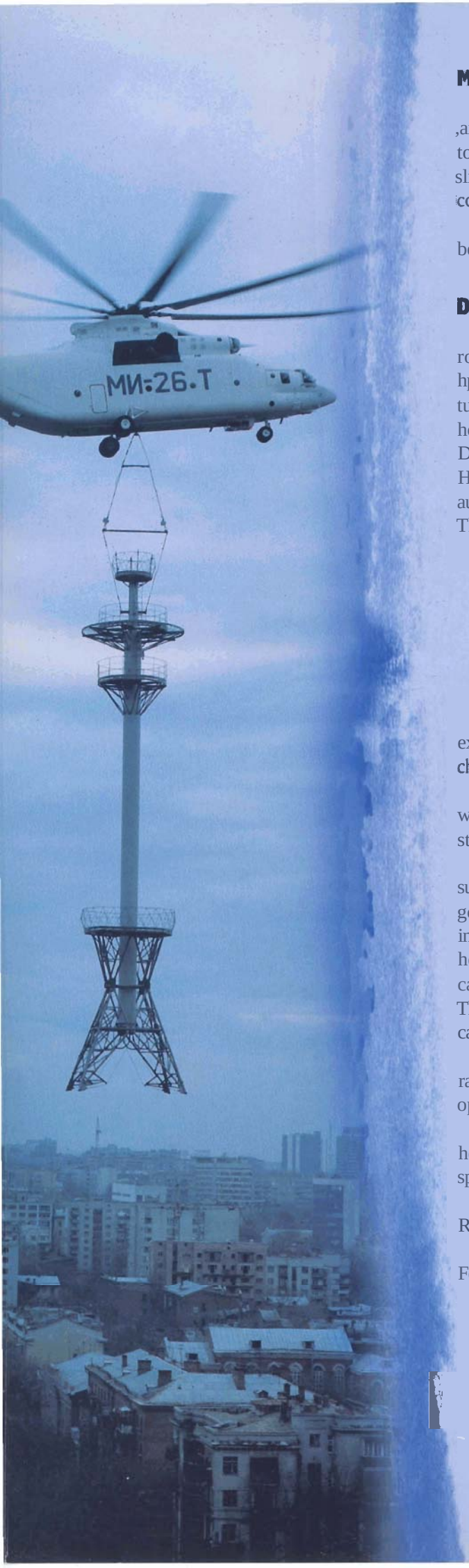
Heavy-Lift Military Transport Helicopter

Mi-26

BASIC CHARACTERISTICS

Power plant	2 x D-136 turbo-shafts
Take-off power, hp	2 x 10,000
Take-off weight, kg:	
normal	49,650
maximum	56,000 *
Max payload capacity, kg	
inside fuselage	20,000
on external sling	20,000
Fuel load, kg:	
main fuel tanks	9,323
auxiliary fuel tanks	11,480
Dimensions (w/o rotors), m:	
length	33.747
width	6.150
height	8.145
Main rotor diameter, m	32
Cargo compartment dimensions, m:	
length (at the floor level)	12.08 **
width (at the floor level)	3.25
height	2.91 - 3.17
Crew, persons	5
Flight speed (ISA, altitude - 500 m), km/h:	
maximum	295
cruising	255
Hovering ceiling, OGE (ISA), m	1,800
Service ceiling (ISA), m	4,600
Flight range (ISA, 5% emergency fuel reserve, altitude - 500 m), km:	
with 20,000 kg cargo	575
with full fuel in main tanks	800
ferry	1,905

* 54,000 kg with a cargo on external sling
** 15 m with the loading ramp.



MISSIONS

The Mi-26 helicopter is intended to enhance troops mobility by ,airlifting personnel and war materiel. Combat cargoes weighing up to 20 tons can be transported inside the fuselage or suspended on an external sling. The Mi-26 lifts up the greatest payload than any other world's helicopter produced in series does. It has set 14 world records.

Designed by Mil Moscow Helicopter Plant the Mi-26 helicopter has been manufactured by "Rostvertol" Plant, Rostov-on-Don, since 1980.

DESIGN FEATURES

The Mi-26 helicopter has a classic layout with an 8-blade main rotor and 5-blade tail one. Its two D-136 turbo-shaft engines rated 10,000 hp each, provide operations in a wide range of altitudes and air temperatures, and, even with one engine failed, the Mi-26 can take-off and continue horizontal flight. The engine is unrivalled in terms of specific fuel consumption. Dust protection devices fitted to the engines prevent their erosive wear. Helicopter systems can be operated autonomously fed by the onboard auxiliary power unit.

The following design features serve to increase the Mi-26's survivability:

- armoured crew cabin;
- crew armour vests;
- fuel tank porous filler;
- supply tank protection;
- fire-extinguishing equipment;
- redundant/duplicated main control circuits, hydraulic and electric systems.

To reduce the helicopter's IR signature the engines are fitted with exhausr heat suppressors. The Mi-26 also can be fitted with the ASU-2V chaff/flare dispensers.

Avionics set ensures reliable VFR/IFR day/night navigation in any weather conditions, as well as radio communications with ground-based stations and other helicopters.

The cargo cabin can accommodate one heavy-weight combat vehicle such as an armoured personnel carrier or infantry fighting vehicle. Bulky cargoes are loaded with the assistance of two pulley blocks and tackle with lifting capacity of 1,500 kg. To load/carry heavier cargoes (up to 5,000 kg) the helicopter is equipped with a monorail motor hoist, Loading process and carriage of the suspended cargo can be monitored via an onboard TV system. The Mi-26 troops-carrying version can accommodate up to 82 troopers who can deliver small arms fire making use of pivots installed at the portholes.

The Mi-26 medical evacuation version is equipped with removable racks for stretchers (capacity - 60 casualties), medical and oxygen equipment, operations rooms.

Notwithstanding its significant dimensions and weight the Mi-26 helicopter can be operated autonomously for a long time without requiring specialised airfield facilities for its maintenance.

The Mi-26TS civil version has been certified in accordance with Russian Airworthiness Standards based on the US FAR-29 Standard.

Follow-on upgrading of the Mi-26 helicopter envisages:

- introduction of advanced flight control and navigation systems providing for round-the-clock operation and high-precision navigation in adverse weather conditions;
- replacement of the main and tail rotor metal-alloy blades with composite ones;
- installation of more powerful engines enabling transportation of two armoured vehicles of APC/IFV type inside the cargo cabin at a time.

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