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NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



Secret Noforn

25X1



imagery analysis report

TOM B - New Soviet Probable
Attack Helicopter (S)



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## TOM B-NEW SOVIET PROBABLE ATTACK HELICOPTER (S)

1. A new probable attack helicopter, with the interim designator TOM B, was observed at the Moskva Mil Design Bureau and Experimental Facility Tomilino  (Figure 1). This helicopter has a narrow fuselage, a pointed nose, podded engines mounted high on each side of the fuselage, and an unswept tailboom. Initial mensuration reveals the following approximate dimensions: fuselage length, fuselage width, distance from main rotor hub to nose, engine pod length, width of fuselage across the engine pods, The overall appearance resembles that of the United States-built Hughes AH-64 APACHE (Figure 2),1 although the APACHE is approximately two meters shorter. (S/WN)  2. Although no main rotor blades were present on the coverage, attachē photography of the helicopter on (Figure 3) shows a five-bladed main rotor system, a three-bladed starboard-mounted tail rotor, and stub wings with two attachment points each.2 This photography also shows a tandem seating cockpit, reverse tricycle landing gear, and a port-mounted horizontal stabilizer at the top of the vertical tail pylon. On the underside of the fuselage are at least three unidentified pods and what appears to be a three-panel nose aperture. (S/WN)	22 22 22 22
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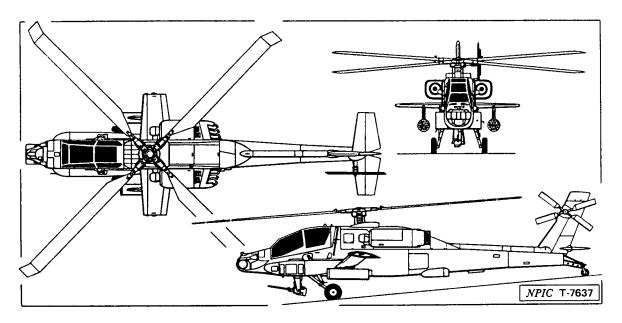
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**FIGURE 2. U.S. APACHE HELICOPTER** 

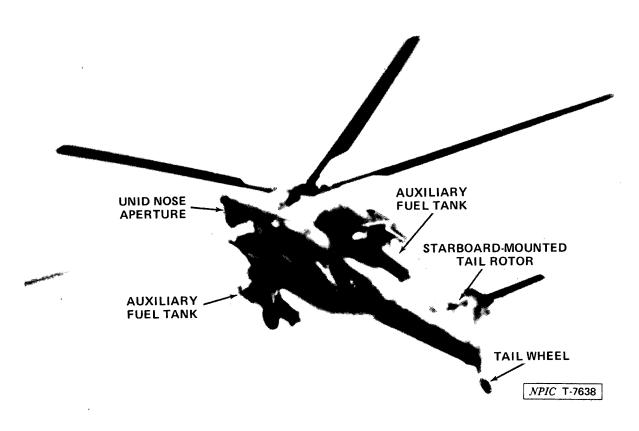


FIGURE 3. TOM B IN FLIGHT

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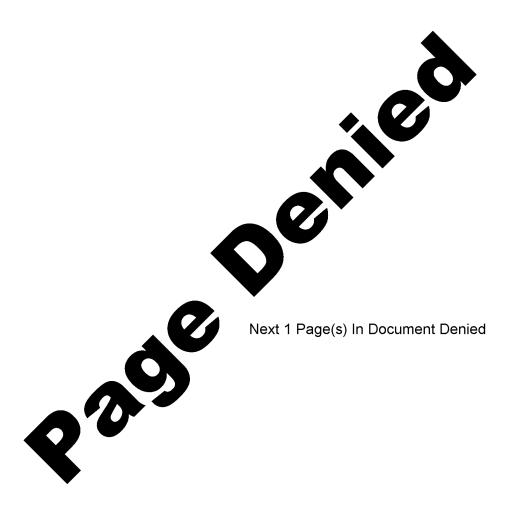
3. Although the coverage was the first overhead sighting of a flight test prototype, collateral information indicated that a prototype attack helicopter, designated the Mi-28 (V-28 was the prototype designator), has been under development since 1977. The prototype was reported to have podded, side-mounted engines, stub wings, and a starboard-mounted tail	25 <b>X</b> 1
rotor. <sup>3</sup> The many similarities between the TOM B and the description of the MI-28 suggest that the two are probably the same. (S/WN)	
area at Tomilino (Figure 4). On subsequent imagery of better interpretability, such details as podded engines and a slender, pointed nose could be confirmed (Figure 5), and the following approximate measurements were made: length, about width at widest part of the cockpit area, about width across the engines, about distance from rotor	25X1 25X1 25X1 25X1
5. In addition to the static test prototype, the Mil Design Bureau has built two new rotor test cages since 1981, one at Moskva Helicopter Test Area Bykov Figure 6), and one at Tomilino (Figure 7). (S/WN)	25 <b>X</b> 1
This test rig would be compatible with a helicopter approximately 17 meters in length, such as TOM B, and, like the TOM B, has a three-bladed, starboard-mounted tail rotor. On a	25X1 25X1 25X1
7. The test stand and cage at Tomilino (Figure 7) are unusual in two respects. This is the first test stand and cage built at the experimental plant; all previous Mil-associated rotor blade testing was done at Bykov. This test stand also has two small, separate (dual), probable power/control buildings. The cage has a diameter of 23 meters and was constructed between March 1981 and July 1982. (S/WN)	
roor interpretability precluded a determination of the rotor system diameter or the number of	25X1 5X1
9. From the foregoing, it appears that intensive testing of flight characteristics and individual systems of the TOM B is under way and that prototype testing has not yet entered the weapons test phase. The TOM B is the Soviets' first known development of a medium helicopter that has no troop transport capability and appears, therefore, to be designed specifically for a ground-attack (and possibly air-attack) role. (S/WN)	

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		REFERENCES			
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SMALL-FORMAT IM	AGERY				
Figure No.	Agency	Accession No.	Date	Classification	
3	DIA	N/A	1983	CONFIDENTIAL NOFORN	25 <b>X</b> 1
MAPS OR CHARTS					
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2. FSTC. Weekl	y Wire Item DTG 09	1330Z Nov 83, New Sovie	t Attack Helico <sub>l</sub>	pter V-28 (CONFIDENTIAL	25 <b>X</b> 1
3. CIA. ated with the		oter Production Plants, Res r Plant i/n Mil. (C) 15 Jul 8		s, and Personalities Associ- FIAL/WNINTEL)	25X1
		is report are welcome. The loitation Group, NPIC,	ney may be dire	ected to	25 <b>X</b> 1 25 <b>X</b> 1
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