Design Characteristics of Pakistan's Ballistic and Cruise Missiles



Last update: September 2014

Name	Other Names	Туре	Length (m)	Diameter (m)	Payload (kg)	Range (km)	Circular Error Probable (CEP) (m)	Propellant	Status
Hatf-1 ¹		SRBM	6.0	0.56	500	60-70	Unknown	Solid	Limited Operational
Hatf-1A ¹		SRBM	6.0	0.56	500	100	Unknown	Solid	Operational
Hatf-1B ¹		SRBM	6.0	0.56	500	100	Unknown	Solid	Operational
Hatf-2 ²	Abdali, Shadoz	SRBM	6.5	0.56	500	180-200	150	Solid	Operational
Hatf-2A* ²		SRBM	6.5	0.56	500	180-200	30	Solid	Operational
Hatf-3 ³	Ghaznavi	SRBM	8.5	0.80	700	290-400	50-250	Solid	Operational
Hatf-4 ⁴	Shaheen-1	SRBM	12.0	1.00	700	750	200	Solid	Operational
Hatf-4 ⁴	Shaheen-1A**	SRBM	12.0	1.00	Unknown	900	Unknown	Solid	Unknown
Hatf-5 ⁵	Ghauri, Mark III	MRBM	15.9	1.35	700-1200	1500-1800	2500	Liquid	Operational
Hatf-6 ⁶	Shaheen-2	MRBM	17.2	1.40	700	2500	350	Solid	Operational
Hatf-7 ⁷	Babur/Babar	Cruise Missile	6.2	0.52	450-500	750	20-50	Turbojet/Solid	Operational
Hatf-8 ⁸	Ra'ad	Cruise Missile	4.85	0.53	1100	350	20-50	Turbojet	Operational
Hatf-9 ⁹	Nasr	SRBM	6.0	0.40	400	60	Unknown	Solid	Testing

^{*} Updated version with speculated GPS or terminal guidance

Related content is available on the website for the Nuclear Threat Initiative, www.nti.org.



^{**} Variant of an improved Hatf-4 reported in April 2013

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Sources:

Unless otherwise indicated: Strategic Weapon Systems – Jane's Sentinel Security Assessment – South Asia, IHS Jane's, 11 July 2014, http://janes.ihs.com.

Related content is available on the website for the Nuclear Threat Initiative, www.nti.org.



¹Hatf 1, Jane's Strategic Weapons Systems, IHS Jane's, 3 January 2014, http://janes.ihs.com.

²Hatf 2 (Abdali), Jane's Strategic Weapons Systems, IHS Jane's, 10 December 2013, http://janes.ihs.com.

³Hatf 3 (Ghaznavi), Jane's Strategic Weapons Systems, IHS Jane's, 10 December 2013, http://janes.ihs.com.

⁴Hatf 4 (Shaheen 1), Jane's Strategic Weapons Systems, IHS Jane's, 2 June 2014, http://janes.ihs.com.

⁵Hatf 5 (Ghauri), Jane's Strategic Weapons Systems, IHS Jane's, 10 December 2013, http://janes.ihs.com.

⁶Hatf 6 (Shaheen 2), Jane's Strategic Weapons Systems, IHS Jane's, 11 December 2013, http://janes.ihs.com.

⁷Hatf 7 (Babur), Jane's Strategic Weapons System, IHS Jane's, 14 July 2014, http://janes.ihs.com.

⁸Hatf 8 (Ra'ad), Jane's Strategic Weapons Systems, IHS Jane's, 7 January 2014, http://janes.ihs.com.

⁹Hatf 9 (Nasr), Jane's Strategic Weapons System, IHS Jane's, 27 March 2014, http://janes.ihs.com.