

HALCON

ROCKET MOTORS

BOOST.
ROCKET.
ASSIST.



The RATO (Rocket Assisted Take Off) family consists of five solid rocket motors designed especially for missile and drone applications. The entire family is designed and manufactured by HALCON in the United Arab Emirates.

The family consists of RATO1, RATO2, RATO3, RATO4 and RATO5 boosters which have been developed using state of the art design and performance modeling software with world class manufacturing processes. Each rocket motor in the line has been designed to meet the requirements of specific applications at HALCON.

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S P E C I F I C A T I O N S

	RATO 1 100mm	RATO 2 75mm	RATO 3 60mm	RATO 4 40mm	RATO 5 30mm
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DIMENSIONS

Diameter:	Ø100 mm	Ø75 mm	Ø60 mm	Ø40 mm	Ø29 mm
Length:	936 mm	697 mm	538 mm	370 mm	255 mm

ENGINE

Burning time:	3.4 s	2.5 s	2 s	1.3 s	1 s
Total impulse:	22,320 N·s	9,400 N·s	4,320 N·s	1,200 N·s	960 N·s
Thrust profile:	Neutral burning				
Propellant type:	Composite propellant				

MASS

Total mass:	14.3 kg	6 kg	2.8 kg	1.35 kg	0.7 kg
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OPERATIONAL LIMIT

Temperature:	-40°C to 70°C				
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