



Available for Immediate Shipment!

H14ST-P Single-Use DMS™ Rocket Motor

New Product Information Release 12/7/2023

AeroTech/Quest is pleased to announce the Tripoli certification and immediate availability of our new H14ST-P 29mm x 230mm single-use DMS™ Disposable Motor System™, long burn solid composite propellant, high-power hobby rocket motor.

Our new H14ST-P DMS™ high-power rocket motor was designed by Gary Rosenfield, RCS/AeroTech founder and president, after developing the H13ST-P for the Hamster Dance competition at Black Rock Desert, NV during the BALLS-28 launch. Our new H14ST-P is capable of reaching altitudes over 20,000 feet with an 18.3 second burn time. This low-thrust, long burn high-power hobby rocket motor has the highest total-impulse of any 29mm long burn high-power rocket motor available.

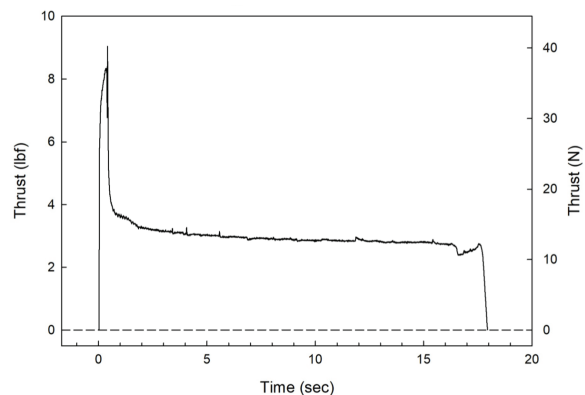
The H14ST-P is offered in two versions, with a built-in thrust ring (*P/N 081400*) and without (*P/N 081400NTR*). This is a great rocket motor for both heavier gliders and lighter weight, high altitude rockets as a single-stage or upper stage low thrust / long burn propulsion system. Featuring AeroTech's fast-burning Super Thunder™ propellant formulation, the H14ST-P delivers a sharp high-thrust spike followed by a reduced sustain thrust for the remainder of the burn.

The H14ST-P delivers 240.12 N-sec (53.98 lb.-sec) of total-impulse with a peak thrust of 42.13 N (9.35 lbs.). This is a "plugged" motor that does not produce delay smoke or contain any ejection charge. Rockets using this type of rocket motor must utilize an electronically-activated recovery system.

H14ST-P Specifications

Diameter: 29mm (1.13")
Length: 230mm (9.06")
Propellant: Super Thunder™
Total Impulse: 240.12 N-Sec / 53.98 lb.-Sec
Burn Time: 18.3 seconds
Peak Thrust: 42.13 N / 9.35 lbs.
Delay Time: Plugged Motor
Propellant Weight: 134 g (4.727 oz.)
Loaded Weight: 230 g (8.113 oz.)

H14ST-P DMS™ Performance



California State Fire Marshal classification and approval has been granted for the H14ST-P DMS rocket motor. It ships with a standard FirstFire™ Initiator, has a suggested retail price of \$62.99 each and may be purchased by consumers 18 years of age or older with a minimum Level 1 TRA or NAR Certification, or by educational institutions, government agencies and licensed commercial entities.

The DMS thrust ring design is protected under U.S. patent No. 10,746,133. TRA certification documents and DMS motor instructions for the H14ST-P are available for download in PDF format from the Resource Library on the AeroTech/Quest website at <http://www.aerotech-quest.com>.