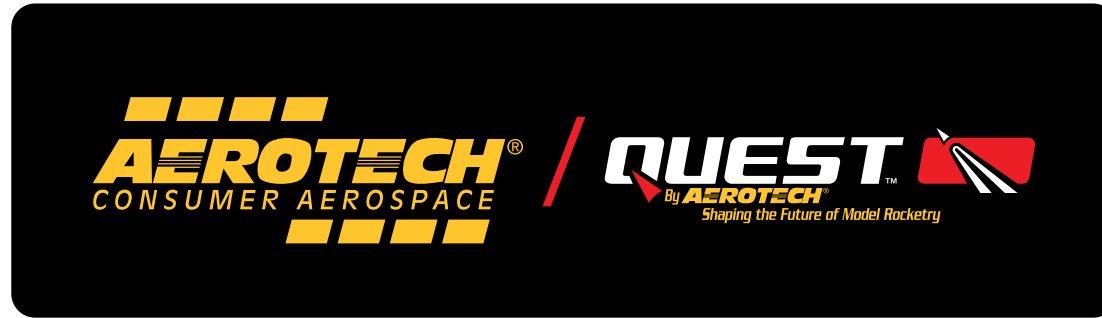




Manufacturers' Forum

Virtual NARCON 2025

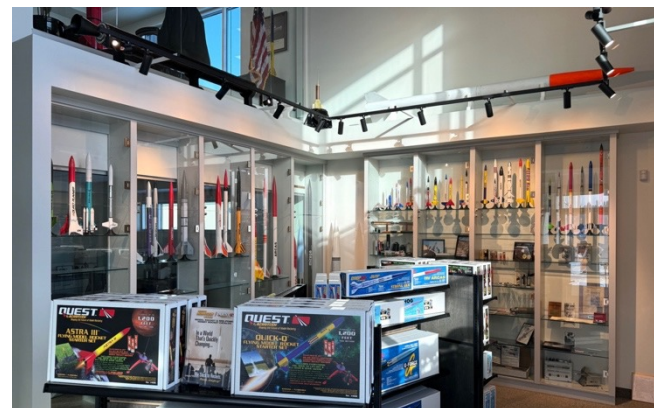
National Association of Rocketry

February 22, 2025

2024-Our Best Year Ever!



- Record sales for both AeroTech and ISP
- Facility grand opening and 4th of July parade were a great success
- Second year of teaching modern solid propulsion introduction course at SUU
- Museum of Composite Propellant Hobby Rocketry and Museum Store are open to the public



Recap of Last Year's Releases



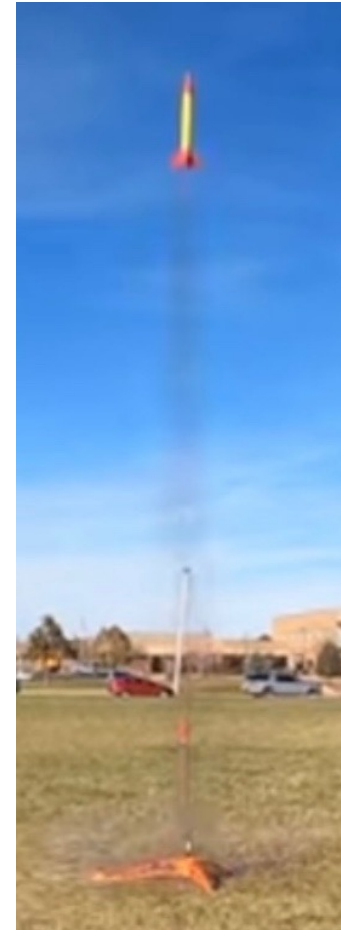
- **iLaunch Wireless Launch Controller**
- Your cell phone becomes the launch controller
- Now uses 4 X 3.2V LiFePO4 batteries for higher voltage (>13V) and the ability to function most initiators
- Advertised range up to 150 feet (but 355 feet was reported by a customer!)
- Small launch box attaches to your launch pad
- Six (6) safety interlock systems including a removeable key switch
- Two-handed, two-button operation
- Automatic 5-second countdown is reset if either hand is removed from a button
- \$79.99 MSRP introductory price (\$99.99 after March 15)



Recap of Last Year's Releases



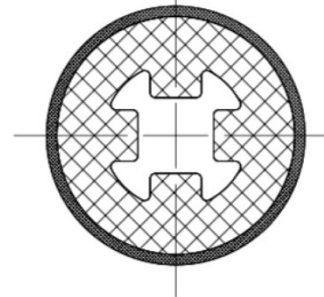
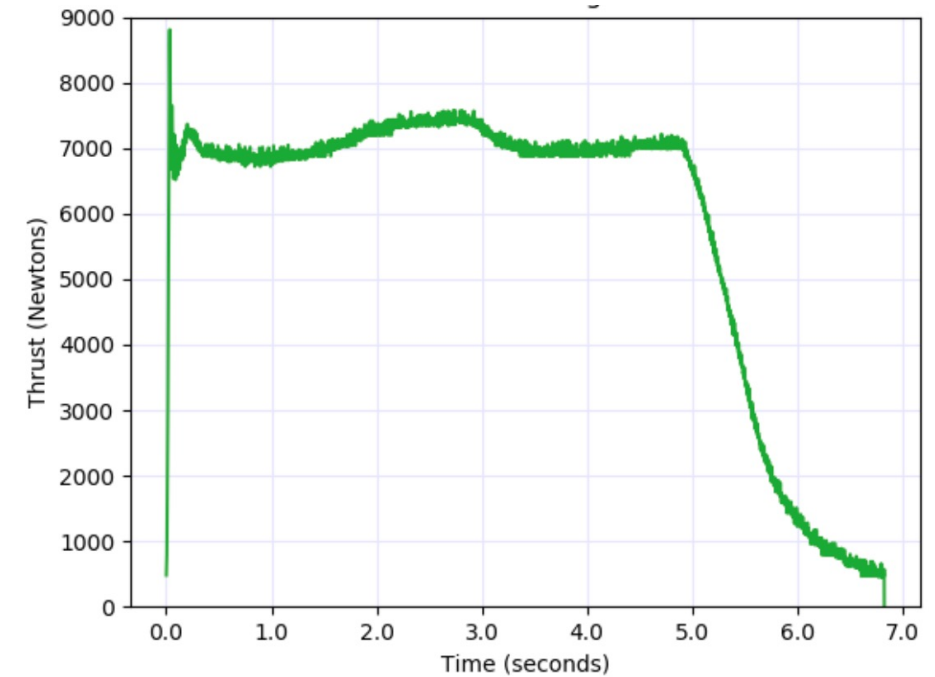
- **B14T Q-Jets**
- Bernard Cawley: Best performing 'B' motor?
- Blue Thunder™ propellant
- Phenolic nozzle
- 5.0 N-sec total impulse
- 0.4 sec burn time
- 2.3 g propellant weight
- 17.8 g total weight for -7 sec delay
- 3, 5 & 7 second delays
- TRA certified
- \$11.99 MSRP for a complete 2-pack that includes FirstFire Micro Initiators, recovery wadding and Q-Pics



Recap of Last Year's Releases



- **O6000W-P DMS™ Motor**
- White Lightning™ propellant single-grain wagon wheel core
- 152mm diameter x 1,120mm long
- 39,620 N-sec total impulse
- 6.77 sec burn time
- 22,000 g propellant weight
- 31,520 g total weight
- Plugged with no smoke
- Ideal for lifting heavy rockets to high altitudes, boosting 2-stage rockets for Karman line attempts, and collegiate group projects
- NAR certified, not for consumer sale in California
- Several hobby & commercial sales to date
- \$9,999.99 MSRP





Seasonal Production Update



• Seasonal Production Plan for 2024-2025

- This plan included the entire listing of 48 seasonally produced rocket motors
- We offered these motors to all AeroTech/Quest dealers and/or distributors during a time period beginning Tuesday, January 30, 2024, and ending Friday, February 16, 2024
- Customers had 2-1/2 weeks to place orders with their dealers for the listed seasonally produced items
- No direct consumer sales of the seasonally produced motors were accepted
- All seasonal motor orders have been shipped or in process of being shipped
- Next seasonal production run is anticipated to be in 12-18 months

AEROTECH
CONSUMER AEROSPACE

QUEST
by AEROTECH
Shaping the Future of Model Rocketry

AEROTECH MID-POWER & HIGH POWER ROCKET PRODUCTS
ORDER FORM
Prices Effective October 14, 2022. Prices and availability Subject to change without notice.

Bill To Address:
Name _____
Address _____
City, State, Zip _____
Day Phone _____
Credit Card No. _____
Expiration Date _____
Name on Card _____
Date of Order _____
Your PO No. _____

Ship To Address: (if different from above) This is a ☐ **residential** ☐ **business address**
Name _____
Address _____
City, State, Zip _____

IMPORTANT:
The sale of "G" motors and all model and high power RMS reload kits to persons under 18 years of age is currently prohibited by federal law. Individuals must be 18 years of age to purchase high power hardware. Proof of age (such as a copy of a driver's license) must accompany all orders for "G" motors and RMS reload kits. The consumer must be a current member in either the National Association of Rocketry or Tripoli Rocketry Association and be a certified Level 1 (R/L) or Level 2 (J/K/L) or Level 3 (M/N/O) high power user, and 18 years of age or older, to purchase high power reload kits.
(*) Asterisk indicates item can ship domestic U.S. Mail ground surface (Parcel Post). This means no haz fee is incurred when shipping RMS reload kits and single-use motors by surface mail. For more details, please refer to the Resources page located on our website at www.aerotech-rocketry.com.
Aerotech produces a variety of composite propellant formulations including White Lightning (W), Super White Lightning (WS), Blue Thunder (T), Black Jack (J), Black Max (F), Redline (R), Warp-5 (N), Mojave Green (G), Metalstorm (M), Dark Matter (DM), Super Thunder (ST), New Blue Thunder (NT), Classic (C) & Propellant-X (X).
Rocket propellant abbreviations indicated in the brackets are listed after the time delay/cast phase number on single-use and LMS™ rocket motors and mid-power RMS™ reload kits. The propellant abbreviation is listed after the average thrust number on DMS™ rocket motors and high-power RMS™ reload kits.

Qty	Part Number	Description	Price Each	Price Total
ENERJET® by AeroTech Standard Line Single-Use Mid-Power Rocket Motors				
24mm x 70mm Single-Use Motors				
(Fits kits designed for black powder 'D' & 'E' motors.)				
	52004	*E20-4W (2-pak)	\$ 33.99	\$ -
	52007	*E20-7W (2-pak)	\$ 33.99	\$ -
	53004	*E30-4T (2-pak)	\$ 33.99	\$ -
	53007	*E30-7T (2-pak)	\$ 33.99	\$ -
	64404	*F44-4W (2-pak)	\$ 38.99	\$ -
	64408	*F44-8W (2-pak)	\$ 38.99	\$ -
24mm x 95mm Single-Use Motors				
(Fits kits designed for black powder 'E' motors.)				
	63004	*F30-4FJ	\$ 25.49	\$ -
	63006	*F30-6FJ	\$ 25.49	\$ -
	63008	*F30-8FJ	\$ 25.49	\$ -
	63204	*F32-4T	\$ 25.49	\$ -
	63206	*F32-6T	\$ 25.49	\$ -
	63208	*F32-8T	\$ 25.49	\$ -
29mm x 83mm Single-Use Motors				
(Fits kits designed for 29mm black powder 'E' & 'F' motors.)				
	66704	*F67-4W (2-pak)	\$ 43.99	\$ -
	66706	*F67-6W (2-pak)	\$ 43.99	\$ -
	66709	*F67-9W (2-pak)	\$ 43.99	\$ -
	77405	G74-4W (2-pak)	\$ 57.99	\$ -
	77406	G74-6W (2-pak)	\$ 57.99	\$ -
	77409	G74-9W (2-pak)	\$ 57.99	\$ -
	62004	*F20-4W (2-pak)	\$ 43.99	\$ -
	62007	*F20-7W (2-pak)	\$ 43.99	\$ -
	62304	*F23-4FJ (2-pak)	\$ 43.99	\$ -
	62307	*F23-7FJ (2-pak)	\$ 43.99	\$ -
	62704	*F27-4R (2-pak)	\$ 43.99	\$ -
	62708	*F27-8R (2-pak)	\$ 43.99	\$ -
	64204	*F42-4T (2-pak)	\$ 43.99	\$ -
	64208	*F42-8T (2-pak)	\$ 43.99	\$ -
29mm x 83mm Classic ENERJET® Single-Use Motors				
	65212	*F52-5C S/U 29mm (2-pak)	\$ 43.99	\$ -
	65214	*F52-8C S/U 29mm (2-pak)	\$ 43.99	\$ -

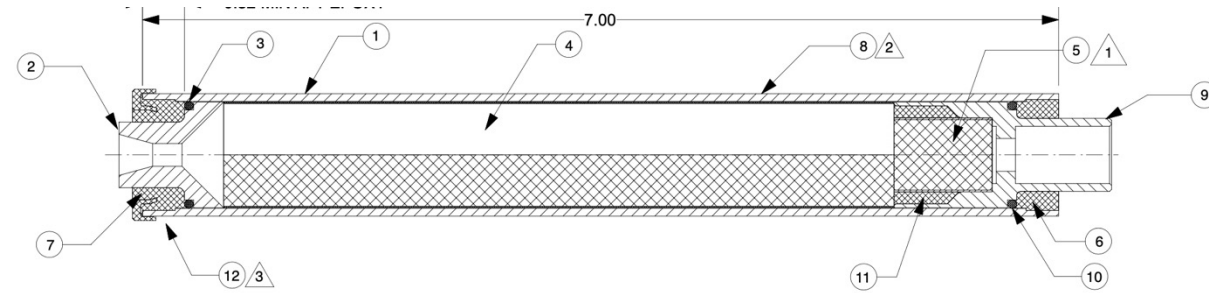
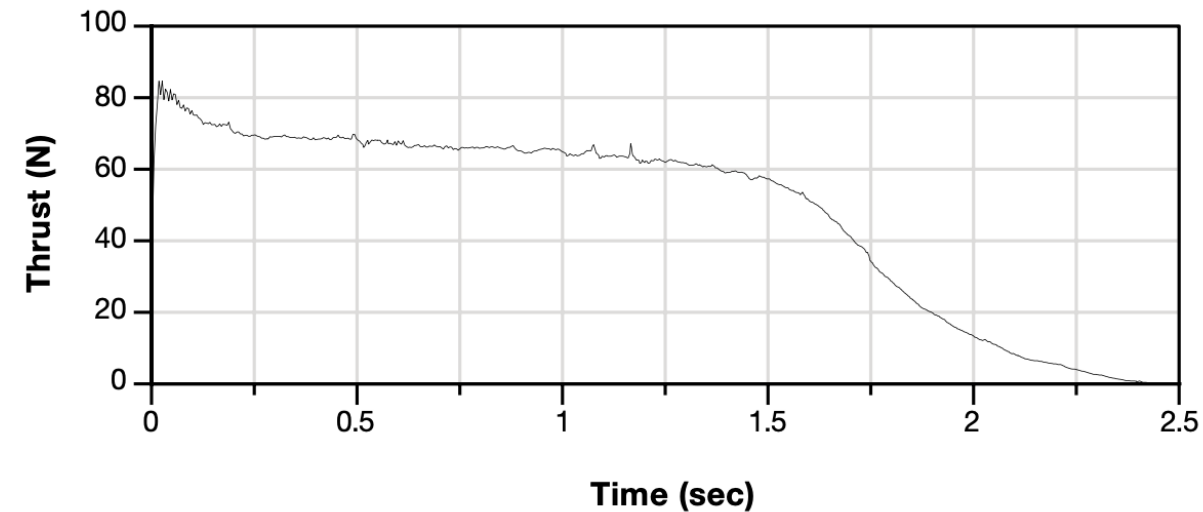
New Products For 2025



G55W-14A 24mm DMS Motor



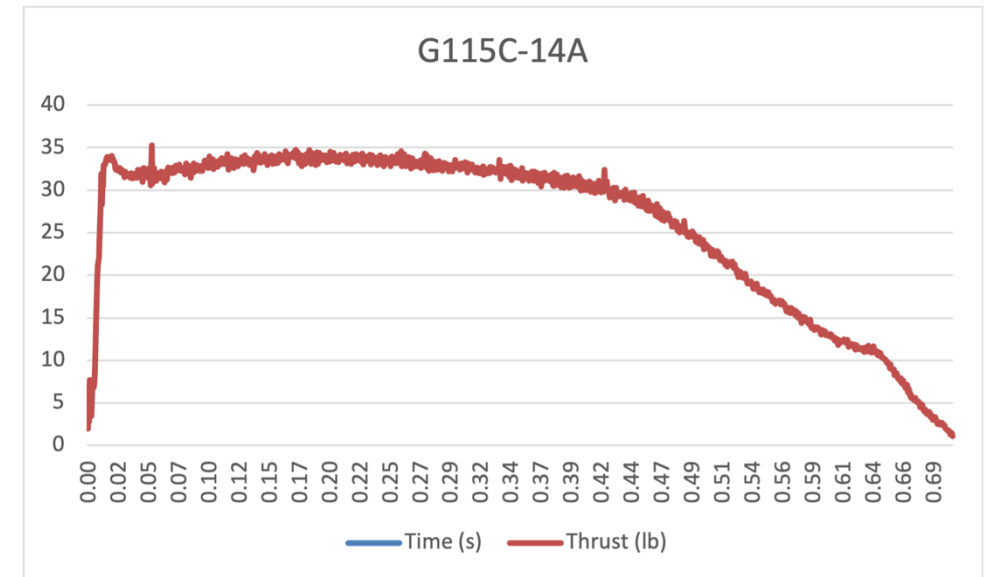
- Similar to the original G55W single-use motor but DMS™ with adjustable delay and ejection
- Filament-wound fiberglass casing
- Approx. 120 N-sec total impulse
- 2.0 sec burn time
- Approx 150 N peak thrust
- 62.5 g propellant weight
- Approx. 110 g total weight
- Great for high altitude flights in small rockets and for sending those heavy 24mm motor mount rockets to new heights!
- TRA certification & CSFM approval pending
- \$38.99 estimated MSRP
- Anticipated availability late 2025



G115C-14A 29mm DMS Motor



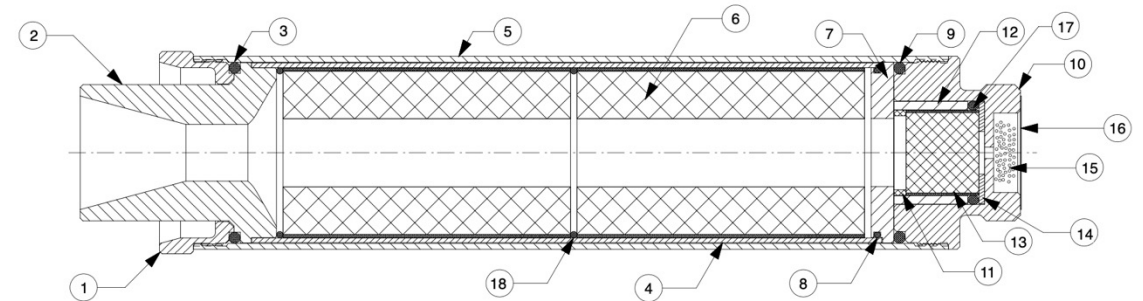
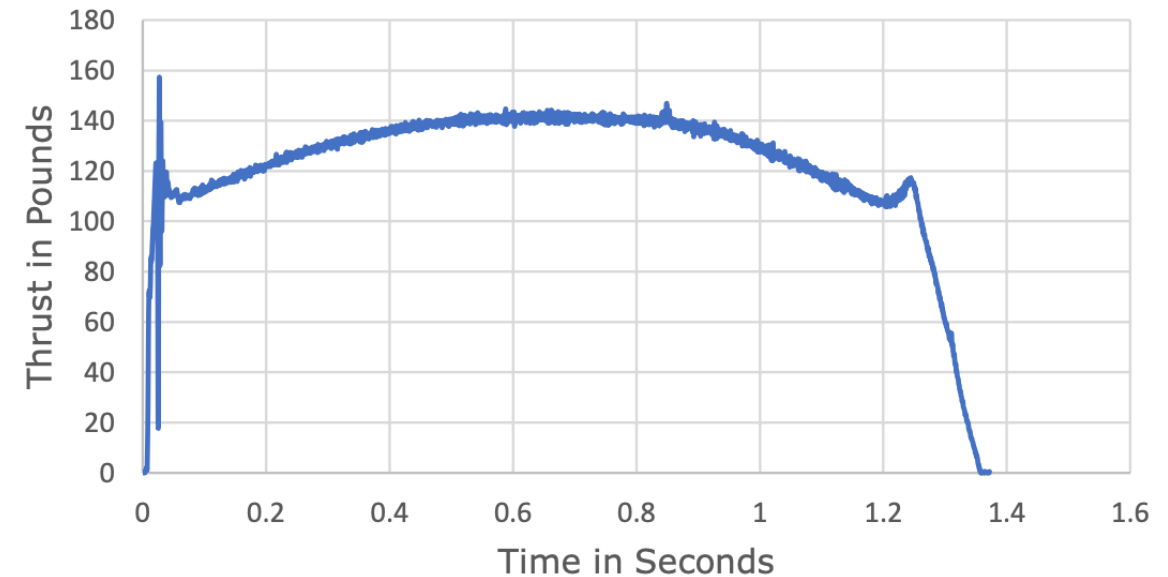
- Filament-wound fiberglass casing
- Uses a faster version of AeroTech Classic™ propellant
- 82 N-sec total impulse
- 0.7 sec burn time
- 151 N peak thrust
- 38.6 g propellant weight
- 101 g total weight
- Adjustable delays
- Best for heavy rockets on small fields
- TRA certification & CSFM approval pending
- \$37.99 estimated MSRP
- Anticipated availability mid-2025



J550ST-14A 54mm RMS Reload



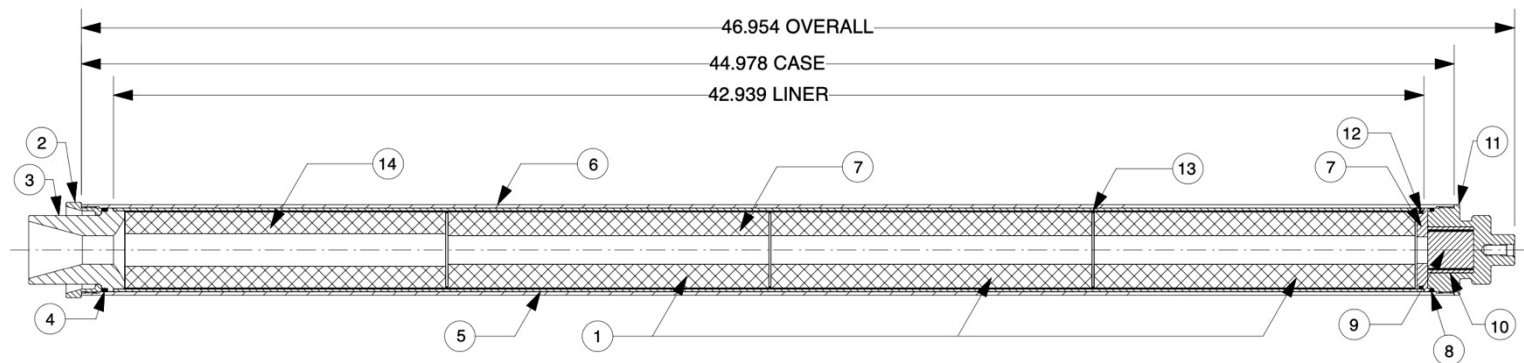
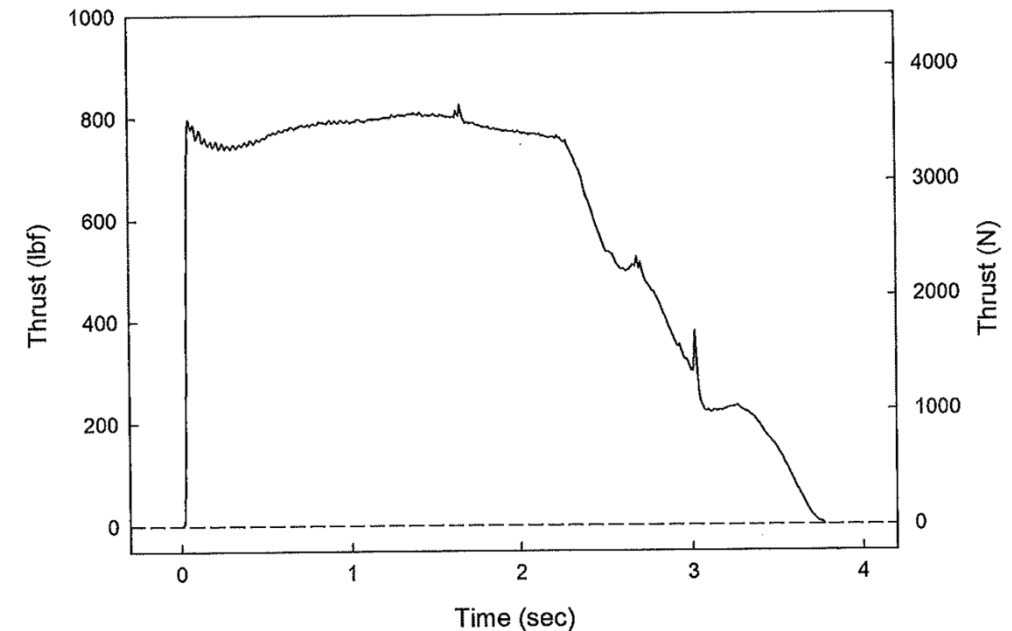
- Super Thunder™ propellant core burner
- Formerly the J615ST using the Aerospike nozzle (discontinued), now with single-throat nozzle
- Designed for RMS-54/852 hardware
- 733 N-sec total impulse
- 1.34 sec burn time
- 628 N peak thrust
- 370.5 g propellant weight
- 820 g total weight
- Great for boosters and heavy single-stage rockets for flights on small fields
- TRA certification & CSFM approval pending
- \$109.99 MSRP
- Availability late 2025



N2700W-PS 75mm RMS Reload



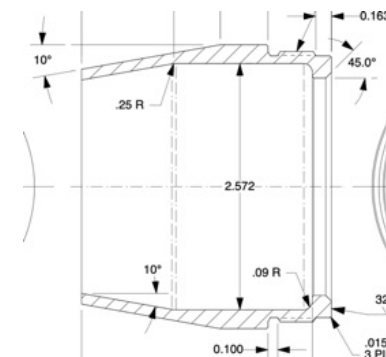
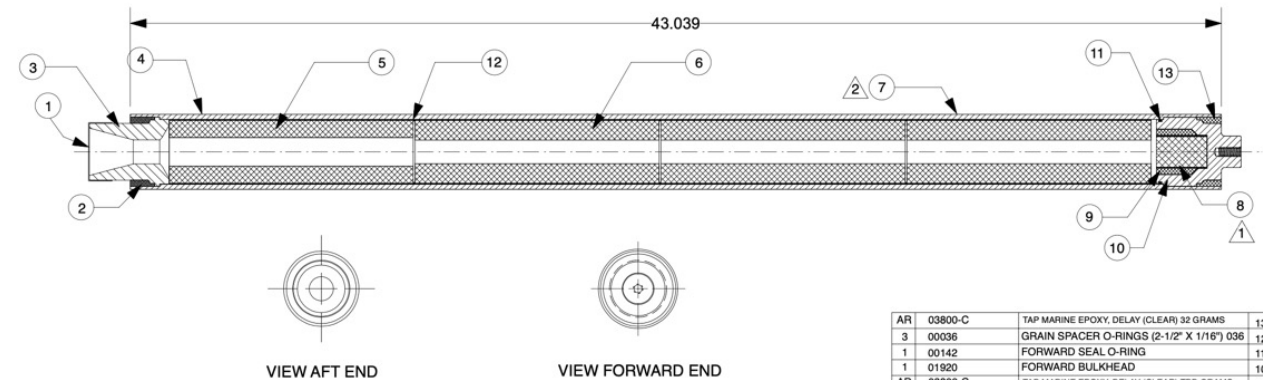
- White Lightning™ propellant core burner
- Designed for the new RMS-75/10240 hardware
- 10,322 N-sec total impulse
- 3.8 sec burn time
- 4,625 N peak thrust
- 5,275 g propellant weight
- 9,058 g total weight
- Designed as an upper stage for the \$10,000+ AeroTech Space Challenge™
- TRA certified (not available in California)
- \$779.99 MSRP, P/N 13270P
- Availability mid-2025



75/10240 RMS Motor Hardware

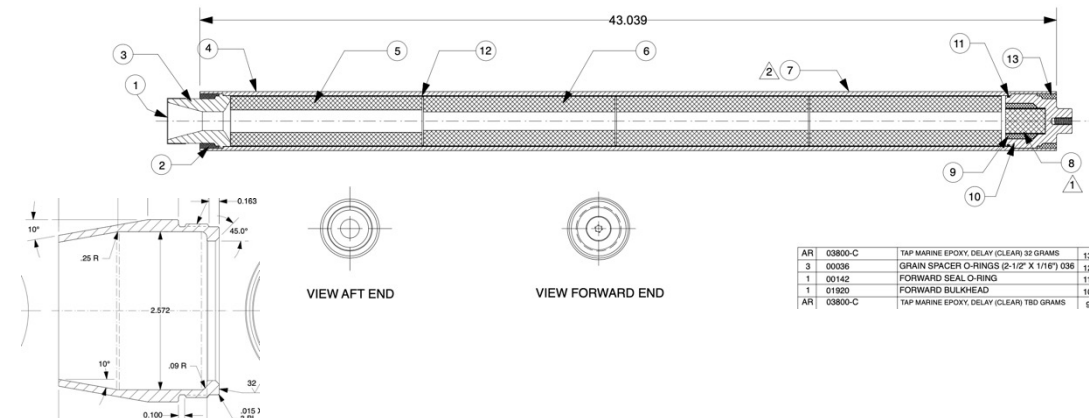
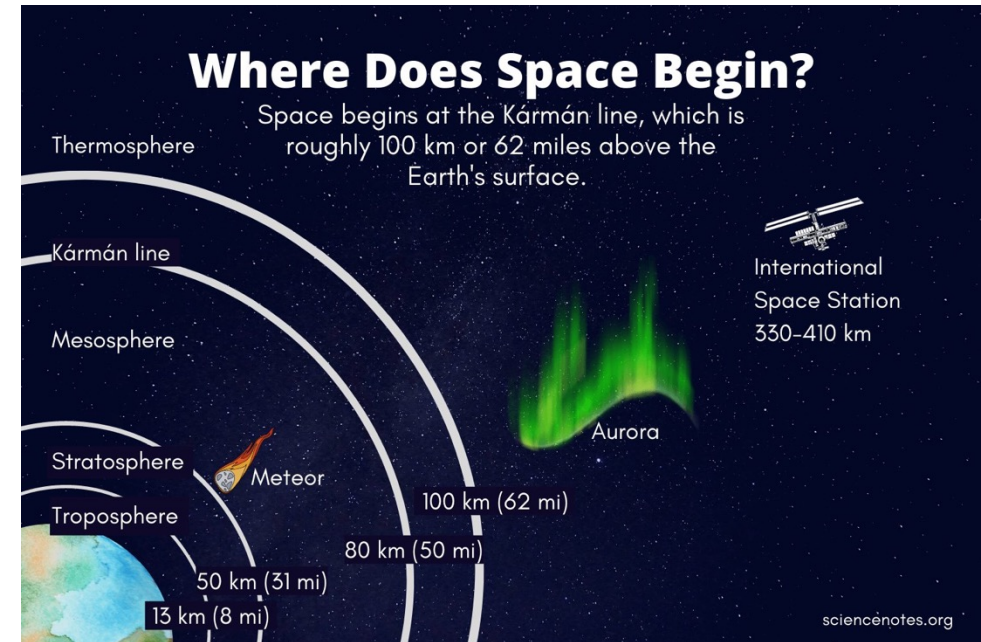


- “8-grain” length case
- Hardware required for the new N2700W reload kit
- Casing \$699.99 MSRP includes SSFSD
- “Flush” aft closure option \$119.99
- “Tailcone flush aft closure” option \$209.99 MSRP
- “No smoke charge” forward closure option \$149.99 MSRP
- Available now



The \$10,000+ AeroTech Space Challenge

- This was supposed to be conducted last year, but timing issues caused it to slip to 2025
- National contest to be flown during ARLISS/XPRS or BALLS in the Black Rock Desert
- Goal is to be the first person to fly 100 km (62 miles) above ground level using certified AeroTech high-power motors totaling no more than 40,960 N-sec
- **\$10,000 cash prize from AeroTech and more \$\$ expected from additional sponsors**
- N2700W RMS reload is now certified and available soon, and the matching 75/10240 hardware is now available
- A full 'M'-class 75mm DMS motor is also designed
- Both 75mm motors are intended for upper stage use with the 98mm O5500X as a booster



Classic Enerjet Nike-Ram™

- Finally!!
- Re-engineered by Enerjet historian Bob Sanford
- 35mm/1.38" diameter
- 61cm/24" long
- 113g/4.0oz empty weight
- Streamer recovery
- Flies on E24C, F52C & F67C Classic Enerjets and other AeroTech Motors
- Flights up to a mile high!
- Available mid-2025
- \$29.99 MSRP



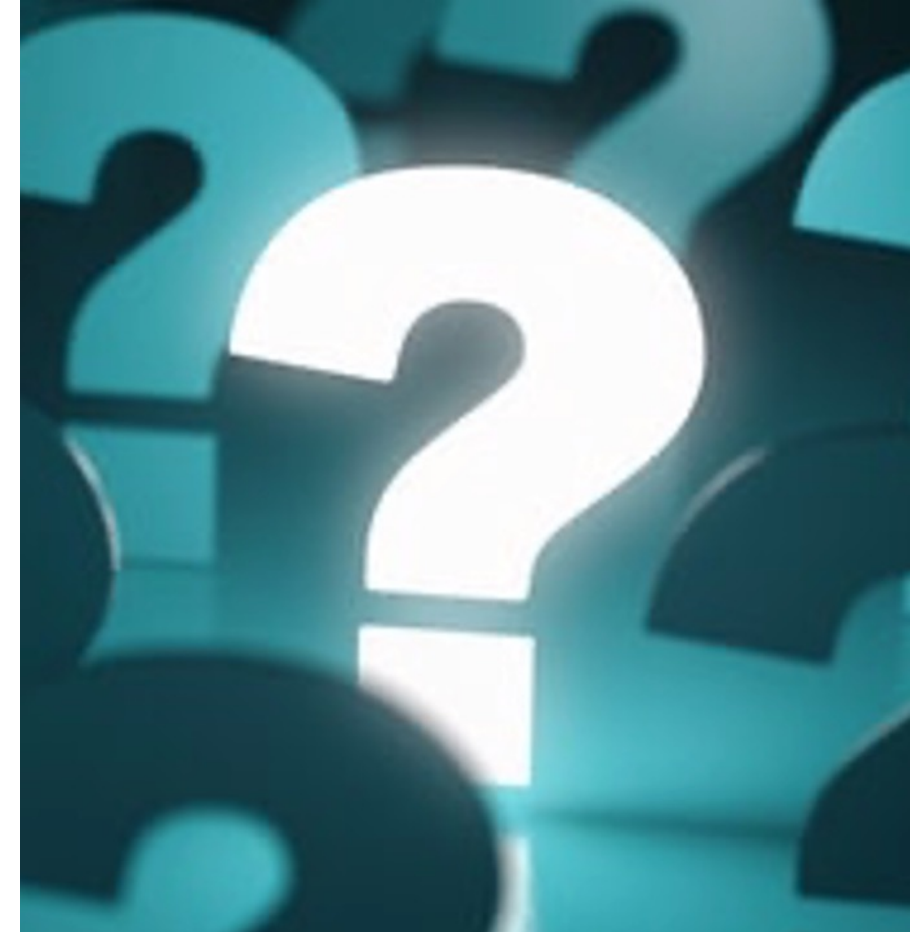
Products that are on hold...



Products that are on hold...



- **...But not forgotten!**
- L2795ST-PS RMS-75/3840 reload
- J1265ST-14A 54mm DMS motor
- K62N-P 54mm DMS motor
- K76WN-P 54mm DMS motor
- N1100W-PS 98mm DMS motor
- N1975W-PS 98mm DMS motor



Products that are on hold...



- The AeroTech/Quest Division of RCS Rocket Motor Components, Inc. has experienced significant growth in 2023 and 2024. At the same time the Industrial Solid Propulsion (ISP) Division of RCS RMC, Inc. has also experienced astronomical growth in the aerospace and defense side of our business. As the world has changed greatly in the past 2 1/2 years, ISP/RCS has become a significant supplier of drone booster assist motors and other solid composite propellant products to the American military and defense industry. In order to continue to support and protect America's warfighters, we have been required to ramp-up our production capabilities by several times. In order to affect the availability of our current product line offerings as little as possible, we have had to make the difficult decision to hold back on many of our 2023 and 2024 new high-power large rocket motor products. All of these anticipated new products will eventually be introduced in 2025 and 2026, as a variety of capital improvements, industrial upgrades and new employee hires begin to significantly increase our propellant yield and motor assembly process. We appreciate your patience and understanding as we continue to support our American and allied warfighters worldwide.



And of Course...

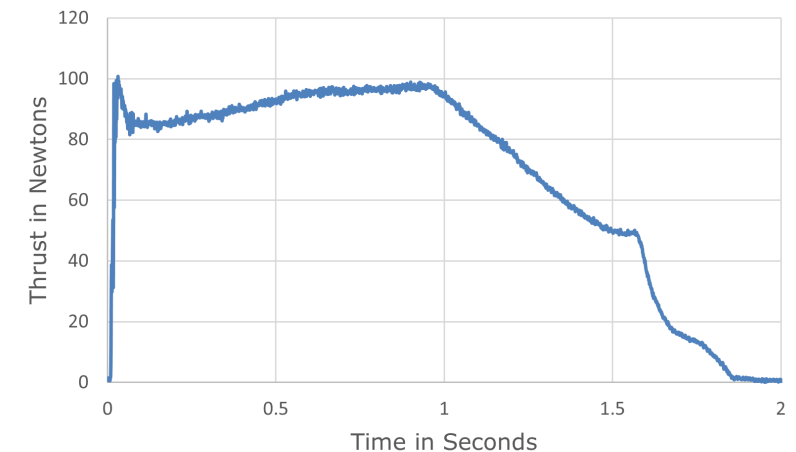


There's One More Thing...

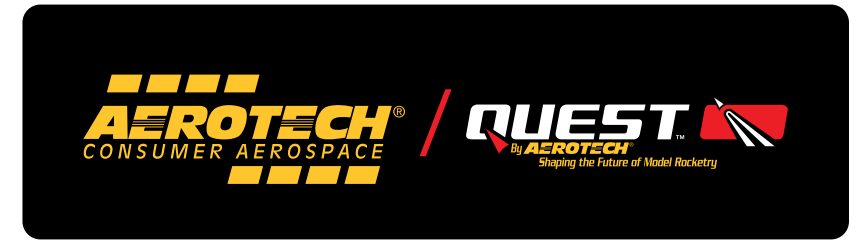


Classic Enerjet 30™ 29mm SU Motor

- G73-7, 11 & 15C
- Original fiberglass-cased and graphite nozzle version was sold by Centuri/Enerjet for their commercial customers in the early '70s
- Molded phenolic casing
- AeroTech Classic™ propellant
- 132 N-sec total impulse
- 1.8 sec burn time
- 100 N peak thrust
- 62.3 g propellant weight
- Approx. 128 g total weight
- A great all-around 'G' motor with the Enerjet vibe
- TRA certification & CSFM approval pending
- \$38.99 MSRP
- Anticipated availability mid-2025



NARCON 2025 Manufacturers' Forum Summary



- Museum and museum store open now
- The iLaunch wireless launch controller and the B14T Q-Jets were our big hits for 2024 and will continue to be this year
- Nike-Ram kit will finally be available in 2025
- The \$10,000 AeroTech Space Challenge is happening!
- The N2700W and 75/10240 hardware will be available for the contest, along with several custom closures
- The G73C will be the final motor in the 29mm Classic Enerjet series
- I want to thank Dane Boles, Karl Baumann, Jeremy Nelson, Kyle Anderson and the entire AeroTech/Quest/RCS team for helping to bring these new products to reality



Questions?



Thank you for your
participation and attention, and for
supporting us these 43 years!

