

DMS™ Disposable Motor System™ Data Sheet

AeroTech's Growing Line of Single Use Motors With Adjustable Delay & Ejection Charge

AeroTech's DMS line ushers in a new era of ease of use, low cost, versatility and spectacular performance to the modern hobby rocketry market!



29mm Diameter

Motor	Part No.	Length	I _t	T _{max}	T _b	T _d	Prop Wt.	Total Wt.	Certification	Price, ea.
G80NT	078014	4.88	137	109	1.7	14	62.5	128	TRA	\$20.99
G125T	071214	4.88	128	160	0.95	14	59.6	125	TRA	\$20.99
H115DM	081114	8.00	172	126	1.5	14	113	205	TRA	\$29.99
H135W	081314	8.00	226	152	1.7	14	121	211	TRA	\$29.99
H182R	081814	8.00	218	192	1.2	14	115	207	TRA	\$29.99
H195NT	081914	8.00	236	254	1.16	14	107	196	TRA	\$29.99
I205W	092014	12.00	345	253	1.7	14	188	315	TRA	\$39.99

38mm Diameter

Motor	Part No.	Length	I _t	T _{max}	T _b	T _d	Prop Wt.	Total Wt.	Certification	Price, ea.
H100W	081014	6.12	234	131	2.3	14	121	261	P	\$35.99
H45W	0845P	7.98	320	87	6.0	PS	180	364	TRA	\$39.99
H550ST	085514	7.98	320	667	0.57	14	145	315	TRA	\$39.99
I140W	091414	7.98	336	181	2.4	14	183	356	TRA	\$42.99
I280DM	092814	14.03	561	386	1.9	14	355	616	TRA	\$59.99
I500T	095014	14.03	620	613	1.24	14	312	576	TRA	\$59.99
J270W	102714	14.03	703	356	2.6	14	381	642	TRA	\$62.99
J425R	104214	14.03	676	452	1.6	14	364	631	TRA	\$62.99

54mm Diameter

Motor	Part No.	Length	I _t	T _{max}	T _b	T _d	Prop Wt.	Total Wt.	Certification	Price, ea.
I65W	0965P	8.58	640	178	9.0	PS	377	752	TRA	\$83.99
J250W	102514	8.58	716	331	2.8	14	363	708	P	\$89.99
K535W	115314	14.10	1,434	655	2.8	14	745	1,264	TRA	\$129.99
L1000W	121018	25.00	2,714	1,261	2.7	18	1,400	2,194	TRA	\$199.99

75mm Diameter

Motor	Part No.	Length	I _t	T _{max}	T _b	T _d	Prop Wt.	Total Wt.	Certification	Price, ea.
L875DM	12875P	25.12	3,800	1,035	4.3	PS	2,472	4,577	TRA	\$319.99
M1350W	13135P	25.12	5,293	1,779	3.9	PS	2,690	4,808	TRA	\$399.99

W = White Lightning™, T = Blue Thunder™, J = Black Jack™, FJ = Black Max™, NT = New Blue Thunder™, R = Redline™, N = Warp 9™, X = Propellant X™, M = Metalstorm™, DM = Metalstorm Dark Matter™, ST = Super Thunder™, P = Pending, PS = Plugged w/smoke

Length in inches, I_t = Total Impulse in N-sec, T_{max} = Maximum Thrust in N, T_b = Burn Time in seconds, T_d = Delay Time in seconds (max), Propellant and Total Weights in grams.

The time delay of many DMS motors may be shortened using AeroTech's new Universal™ Delay Drilling Tool, which is available from AeroTech and its dealers for only \$9.99 each.



All motors feature a glass-reinforced composite phenolic nozzle, molded or filament-wound fiberglass casing, a new molded plastic bulkhead and ship with a FirstFire™ or FirstFire Jr.™ igniter and a built-in thrust ring. Thrust rings on DMS motors are designed to fit standard motor retainers.

Motor performance information including a sample time-thrust curve and physical specifications are printed on the motor label.

AEROTECH
CONSUMER AEROSPACE

DMS™ G80T-14A New Blue Thunder™ Disposable Motor System™ Model Rocket Motor

Motor Specifications
 Total impulse: 137 N-sec (30.8 lb-sec)
 Burn time: 1.7 sec
 Peak thrust: 24 lbs (109 N)
 Delay time: 14 sec max (adjustable)
 Propellant wt.: 62.5 grams (2.2 oz.)
 Loaded wt.: 128 grams (4.5 oz.)

WARNING-FLAMMABLE: SALE TO PERSONS UNDER 18 YEARS OF AGE PROHIBITED BY FEDERAL LAW. DO NOT SMOKE when using these motors or use in the vicinity of open flames. CAUTION: Keep Out of Reach of Children. Read instructions before use. Use only in accordance with instructions. Ignite by electrical means only. Follow NAR & TRA safety codes at all times. Motor hot after firing.

Certified by the Tripoli Rocketry Association (TRA) • Made in U.S.A. • www.aerotech-rocketry.com
AeroTech Division, RCS Rocket Motor Components Inc., 2113 W. 850 N.St., Cedar City, UT 84721

AEROTECH
CONSUMER AEROSPACE

DMS™ H195T-14A New Blue Thunder™ Disposable Motor System™ High Power Rocket Motor

Motor Specifications
 Total impulse: 236 N-sec (53.1 lb-sec)
 Burn time: 1.16 sec
 Peak thrust: 57 lbs (254 N)
 Delay time: 14 sec max (adjustable)
 Propellant wt.: 107 grams (3.77 oz.)
 Loaded wt.: 196 grams (6.91 oz.)

WARNING-FLAMMABLE: Read instructions before use. Use only in accordance with instructions. Keep away from open flames and other heat sources. Sale to persons under 18 years of age prohibited by federal law. For use only by certified high-power users 18 years of age or older. Ignite by electrical means only. CAUTION: Follow NAR & TRA safety codes at all times. Motor hot after firing.

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DMS motors are packaged in a distinctive yellow shipping tube with AeroTech logos printed on the outer spiral wrapping, and the same motor label applied to the outside of the tube for easy identification and performance evaluation by the flyer. Caps on the ends of the tube are applied externally and are easy to remove by the customer.



DMS motors are different from previous and existing reloadable and single-use motors in the following important ways:

- No hardware to buy, load, clean or lose
- High strength, light weight filament-wound fiberglass or molded glass-phenolic casings
- User adjustable time delays in 2-second increments
- User adjustable ejection charge
- Complete performance data and physical specifications printed on the outer packaging and motor label
- High reliability due to less potential for user error while retaining superior customer adjustability of delay time and ejection charge
- Low cost

The DMS motor design and the Universal Delay Drilling Tool are patent pending.



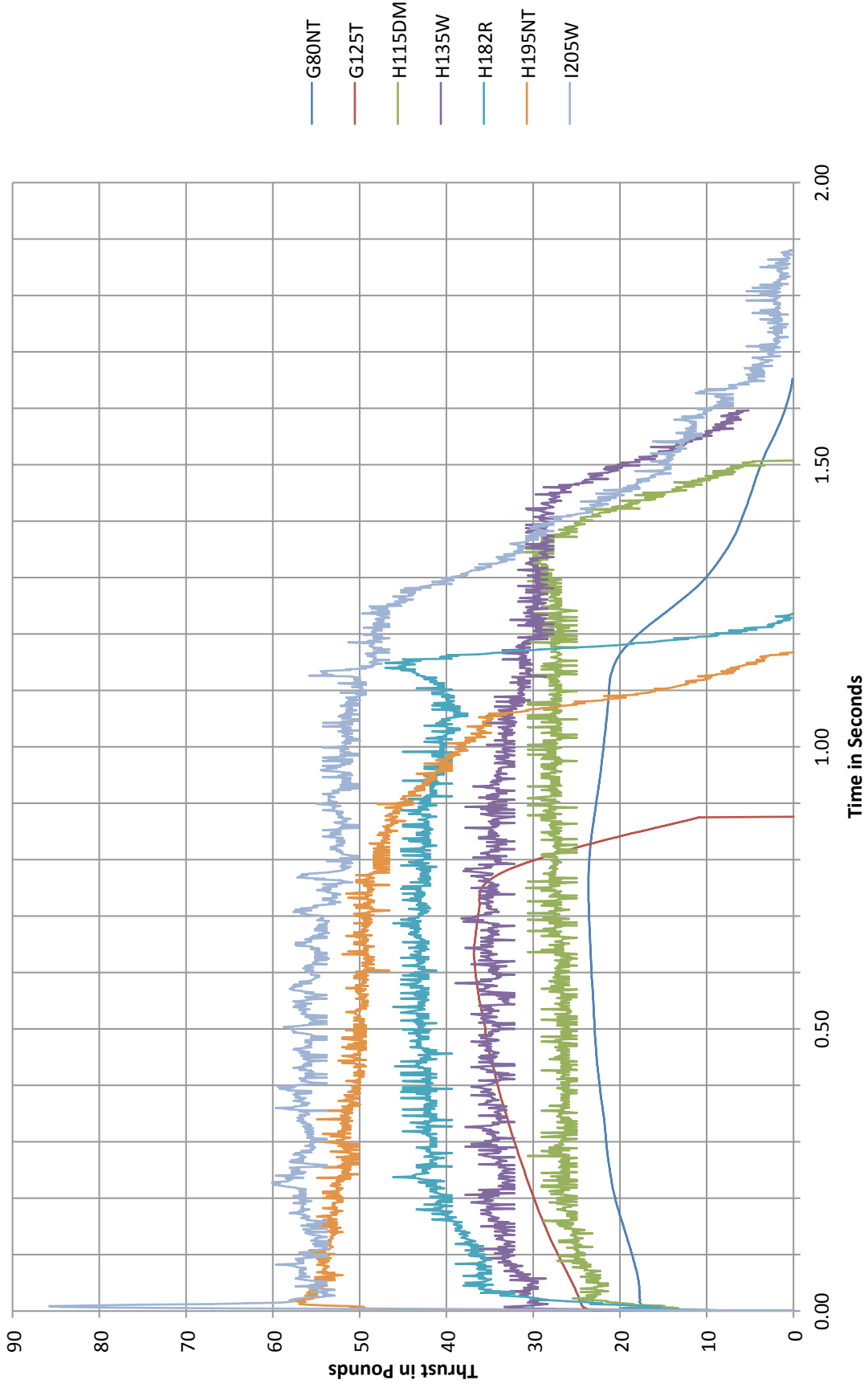
"DMS- when you just want to fly!"

Prices and specifications subject to change without notice.

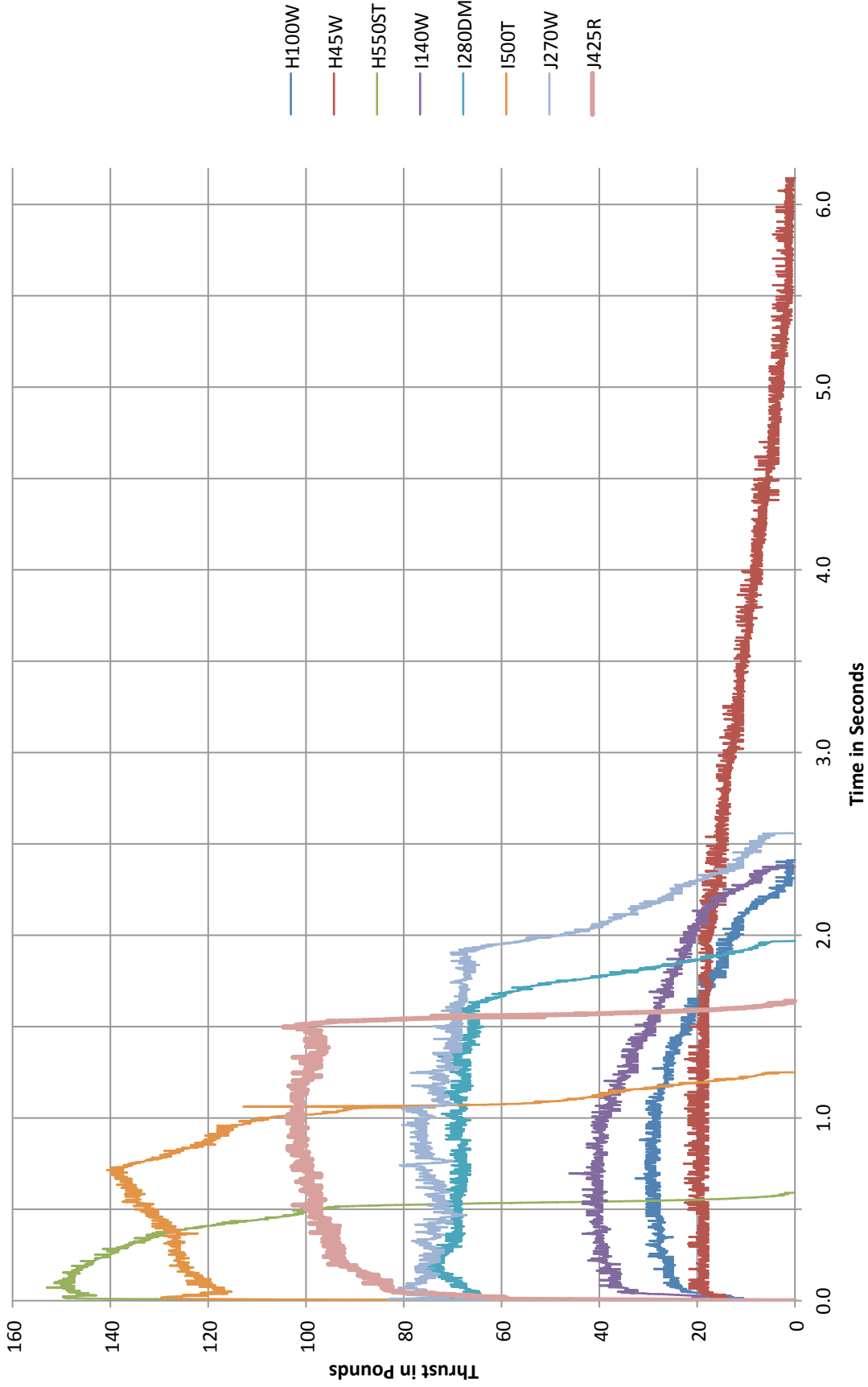
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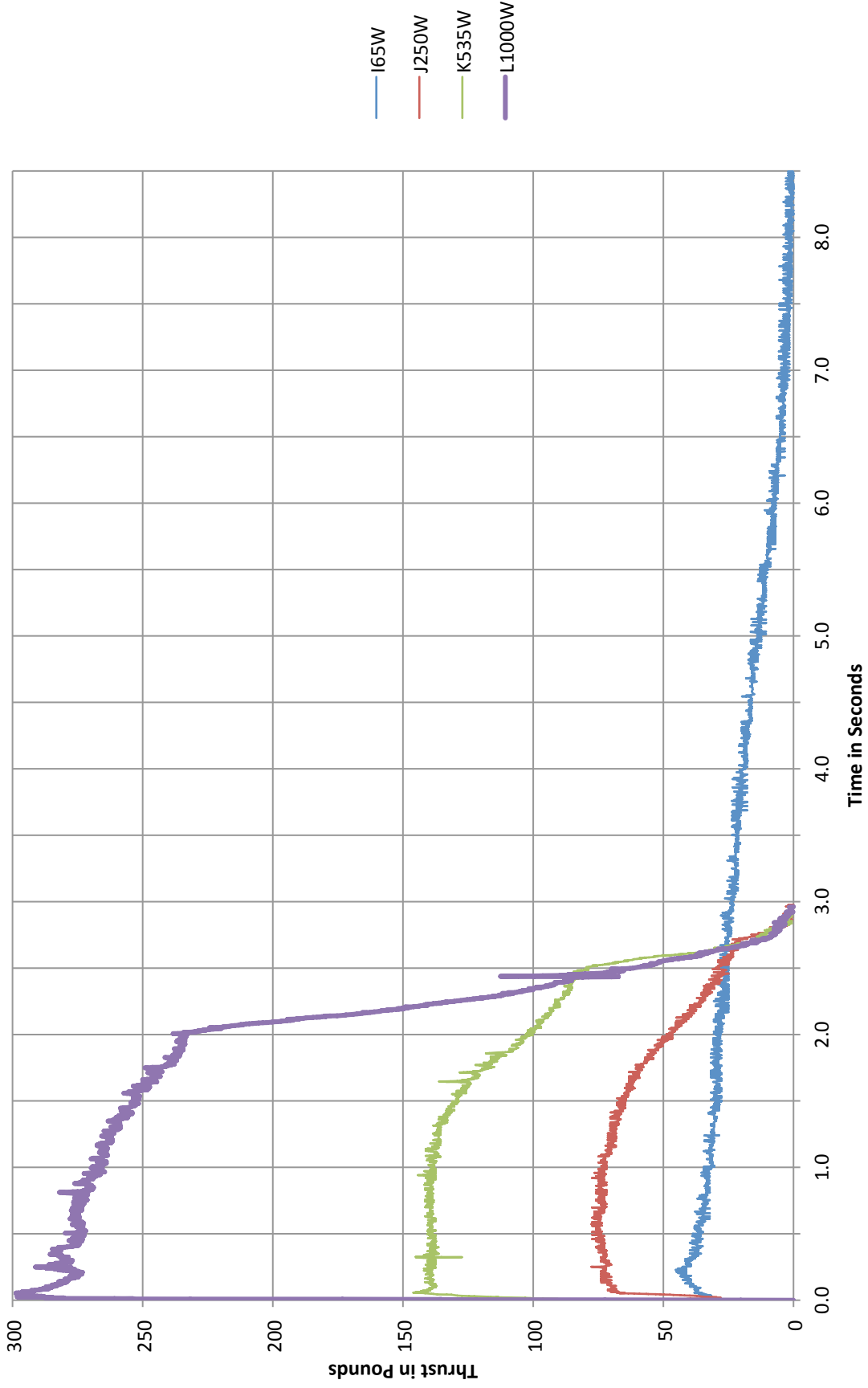
29mm DMS™ Time-Thrust Curves



38mm DMS™ Time-Thrust Curves



54mm DMS™ Time-Thrust Curves



75mm DMS™ Time-Thrust Curves

