

# Birleştirilmiş CAR/NAR/TRA Sertifikalı Roket Motor Listesi

NAR üyelerine bir hizmet olarak, NAR Standartları ve Test Komitesi (S&T) NAR fırlatmalarında kullanılmak için sertifikalandırılmış tüm roket motorlarının bir listesini yayınlamıştır. NAR, Tripoli Rocketry Association (TRA), ve Kanada Roketçilik Kurumu (CAR) olarak, karşılıklı bir sertifika politikası yürürlüğe girdiğinden, tüm kuruluşlar tarafından sertifikalandırılmış motorlar bu listede yer almaktadır. Tüm kuruluşların üyeleri, motorunuz ülkenize nakliye için uygun görüldükten (ABD’de DOT sertifikası) sonra herhangi bir organizasyonda onaylanmış motorları kullanabilirler.

Bu liste, bir motorun belirli bir tarihte "süresinin dolduğunu" gösterebilir. Bu durum, genel kullanıma ilişkin söz konusu olan motorun sertifikasının belirtilen tarihte iptal edileceği anlamına gelir. Son kullanma tarihi motor sertifikasının iptal edilmesinden üç yıl sonra olarak kabul edildiğinden dolayı, önceden satın aldıkları motorları kullanmaları için pilotlara zaman tanınır. Son kullanma tarihi geçtikten sonra, motorlar artık kullanılmamalıdır. Bu bağlamda bir motor süresinin dolduğu şeklinde listelendikten sonra, aynı tipteki yeni imal edilmiş motorlarda otomatik olarak kullanım için onaylanmamış sayılırlar. Sertifikasyon için yeniden test edilecekler ve ayrı ayrı listeleneceklerdir.

NAR sertifikalı motorların listesindeki eklemeler, silme işlemleri ve değişiklikler kullanıma girdikçe NAR bültenlerinde yayınlanacaktır. Ayrıca, aşağıdaki Web sitesinde elektronik olarak da yayınlanacaktır:

- NAR Web site [nar.org](http://nar.org)

Yarışma Direktörleri gibi, NAR sertifikalı motorların en yeni listesini isteyen kişiler S&T Sekreteri ile temasa geçebilir:

Ed Pattison-Gordon  
[rdedwa@comcast.net](mailto:rdedwa@comcast.net)

Ayrıca, sorular S&T Başkanlığına yönlendirilebilir:

Jack Kane  
23 Bungay Road  
Mansfield, MA 02048

John Lyngdal  
17775 SW Janell Court  
Beaverton, OR 97006  
503-341-8858  
[john.w.lyngdal@exgate.tek.com](mailto:john.w.lyngdal@exgate.tek.com)

NAR S&T tarafından test edilmeyen motorlarla ilgili sorular aşağıdaki adreslere yönlendirilmelidir:

- TRA: Alan Whitmore, Başkan, Tripoli Rocketry Association Motor Test Komitesi
- CAR: Thomas Raithby, Başkan, Kanada Roketçilik Kurumu Motor Test Komitesi

Daha fazla bilgi isterseniz, S&T Motor Data Sheets from NARTS’den S&T Motor Veri Sayfalarının basılı kopyalarını sipariş ediniz. Bu rapor NAR S&T tarafından sertifikalandırılmış mevcut her bir motorun veri sayfalarından oluşmaktadır. Her veri sayfası irtifa simülasyonlu bilgisayar programlarında kullanılmak üzere test ateşleme değerleri ile birlikte bir itme kuvveti eğrisi, 32 veri noktasından fazla ölçülmüş ortalama itme kuvveti ve toplam itici kuvvetini içerir.

## Motor Tipi Anahtarı

- S - Tek kullanımlık motoru belirtir.
- R - Sadece üretici tarafından tedarik edilen kovan, kapaklar, nozül ve itici yakıtla sertifikalandırılmış tekrar doldurabilir bir motoru belirtir.
- H - Hibrit motoru belirtir.
- T - Tribrit motoru belirtir.
- ! – Sarı renkte, yüksek ışıklı kıvılcımlı bir motoru belirtir: daha fazla dikkat gerektirir.
- (a) - Sadece Animal donanımı ile kullanımında sertifikalandırılmıştır
- (HP) - Toplam itici kuvveti ne olursa olsun yüksek bir güç motoru olarak bahsedilen motor.

## Üretici Kısaltmaları Anahtarı

- Aerotech - AeroTech, ISP, or Dr Rocket

- Alpha - Alpha Hybrid Rocketry, LLC
- Animal - Animal Motor Works
- Apogee - Apogee Components
- Cesaroni - Cesaroni Technology Inc.
- Contrail - Contrail Rockets LLC
- Estes - Estes Industries
- Gorilla - Gorilla Motor
- Hypertek - Hypertek
- Kosdon/AT - Kosdon by AeroTech
- Loki - Loki Research
- PML - Public Missiles Ltd.
- Propulsion - Propulsion Polymers
- Quest - Quest Aerospace
- RATTworks - R.A.T.T. Works Precision Rocket Motors
- Roadrunner - RoadRunner Rocketry
- SkyRipper - Sky Ripper Systems
- WCH - West Coast Hybrids

## İtici yakıt Ağırlık Kısaltmaları

cc - (santimetre küp) hibrit motordaki nitröz hacmini belirtir

## Yarışma Onaylı Kayıt Anahtarı

- Evet - NAR yarışmaları için izin verilmiş motor.
- BEKLEMEDE - Şu anda yarışmalar için izin verilmese de izin verilmesi bekleniyor.
- HPR - Yüksek güç motoru olduğundan yarışmalar için izin verilmez.
- Hayır - Yaygın olmadığından yarışmalar için izin verilmez.

Not: "Yarışma onaylı" NAR ABD Model Roket Spor Yönetmeliği uyarınca yapılan yarışmalarda kullanılmak üzere onaylandığı anlamına gelir. Bu ibare HPR yarışmalarında veya FAI yarışmalarında kullanılmak üzere onaylanmış ile aynı değildir.

## Not

Herhangi bir sütundaki N/A - işareti sertifika kuruluşu tarafından sağlanmayan bilgiyi belirtir

**Yayınlama:** 03 Ocak 2019

Tip Tanımı	Üretici	Boyutları (mm)	İtici kuvvet (N-san)	İtici yakıt Ağırlığı (g)	Test Kurumu	Yarışma Onaylı	Yarışma Kullanım Sonu
S <a href="#">1/8A.2 (MicroMaxx)</a> -1	Quest	6 x 26	0.135	0.4	NAR	Hayır	
S <a href="#">1/8A.5 (MicroMaxxII)</a> -1,NE	Quest	6 x 26	0.22	0.5	NAR	Evet	
Tip Tanımı	Üretici	Boyutları (mm)	İtici kuvvet (N-san)	İtici yakıt Ağırlığı (g)	Test Kurumu	Yarışma Onaylı	Yarışma Kullanım Sonu
S <a href="#">1/4A3T</a> -3	Estes	13 x 45	0.62	0.8	NAR	Evet	
Tip Tanımı	Üretici	Boyutları (mm)	İtici kuvvet (N-san)	İtici yakıt Ağırlığı (g)	Test Kurumu	Yarışma Onaylı	Yarışma Kullanım Sonu
S <a href="#">1/2A3T</a> -2,4	Estes	13 x 45	1.25	2	NAR	Evet	
S <a href="#">1/2A6</a> -2	Estes	18 x 70	1.25	2.6	NAR	Evet	
Tip Tanımı	Üretici	Boyutları (mm)	İtici kuvvet (N-san)	İtici yakıt Ağırlığı (g)	Test Kurumu	Yarışma Onaylı	Yarışma Kullanım Sonu

S	<a href="#">A3T-2,4</a>	Quest	13 x 55	1.71	3.6	NAR	Hayır
S	<a href="#">A3T-4</a>	Estes	13 x 45	2.5	3.3	NAR	Evet
S	A3-4,6	Quest	18 x 80	2.5	2.1	TRA	Evet
S	<a href="#">A6-4</a>	Quest	18 x 70	2.5	3.5	NAR	Hayır
S	<a href="#">A6-4</a>	Quest	18 x 70	2.3	3.5	NAR	Hayır
S	<a href="#">A8-0</a>	Estes	18 x 70	2.15	3.84	NAR	Evet
S	<a href="#">A8-3</a>	Quest	18 x 70	1.86	3.6	NAR	Hayır
S	<a href="#">A8-3,5</a>	Estes	18 x 70	2.5	3.3	NAR	Evet
S	<a href="#">A10T-0</a>	Estes	13 x 45	1.88	3.57	NAR	Evet
S	<a href="#">A10T-3,P</a>	Estes	13 x 45	2.5	3.8	NAR	Evet

Tip Tanımı	Üretici	Boyutları (mm)	İtici kuvvet (N-san)	İtici yakıt Ağırlığı (g)	Test Kurumu	Yarışma Onaylı	Yarışma Kullanım Sonu
S	<a href="#">B4-2,4</a>	Estes	18 x 70	5	6	NAR	Evet
S	<a href="#">B4-4</a>	Quest	18 x 70	3.84	10.4	NAR	Hayır
S	B4-4,6	Quest	18 x 80	4.86	3.6	TRA	Evet
S	<a href="#">B6-0</a>	Estes	18 x 70	4.9	5.6	NAR	Evet
S	<a href="#">B6-0,4</a>	Quest	18 x 70	5	6.5	NAR	Hayır
S	<a href="#">B6-2</a>	Quest	18 x 70	5	6.5	NAR	Hayır
S	<a href="#">B6-2,4,6</a>	Estes	18 x 70	5	5.6	NAR	Evet
S	<a href="#">B6-4</a>	Quest	18 x 70	4.85	6.5	NAR	Hayır

Tip Tanımı	Üretici	Boyutları (mm)	İtici kuvvet (N-san)	İtici yakıt Ağırlığı (g)	Test Kurumu	Yarışma Onaylı	Yarışma Kullanım Sonu
R	<a href="#">C3.4-P</a>	Aerotech	18 x 72	9.22	5.2	NAR	Evet
S	<a href="#">C6-0</a>	Quest	18 x 70	8.8	11	NAR	Hayır
S	<a href="#">C6-0,3,5,7</a>	Estes	18 x 70	9	10.8	NAR	Evet
S	<a href="#">C6-3,5</a>	Quest	18 x 70	8.5	11	NAR	Hayır
S	<a href="#">C6-3,5</a>	Quest	18 x 70	8.76	12	NAR	Hayır
S	<a href="#">C11-0,7</a>	Estes	24 x 70	9	12	NAR	Evet
S	<a href="#">C11-3,5</a>	Estes	24 x 70	9	12	NAR	Evet
S	C12-4,6,8	Quest	18 x 70	9.8	10.4	TRA	Evet

Tip Tanımı	Üretici	Boyutları (mm)	İtici kuvvet (N-san)	İtici yakıt Ağırlığı (g)	Test Kurumu	Yarışma Onaylı	Yarışma Kullanım Sonu
R	<a href="#">D2.3-P</a>	Aerotech	18 x 72	17.21	10.7	NAR	Evet
S	<a href="#">D5-4,6</a>	Quest	20 x 96	17.61	24	NAR	Hayır
S	<a href="#">D5-P</a>	Quest	20 x 88	19.6	25	NAR	Hayır
R	<a href="#">D7-RC</a>	Aerotech	24 x 70	20	10.5	NAR	Evet
S	<a href="#">D8-0,3,5</a>	Quest	24 x 70	18.59	22	NAR	Hayır
R	<a href="#">D9-4,7</a>	Aerotech	24 x 70	20	10.1	NAR	Evet
S	<a href="#">D10-3,5,7</a>	Aerotech	18 x 70	18.3	9.8	NAR	Evet
S	<a href="#">D10-3,5,7</a>	Apogee	18 x 70	18.3	9.8	NAR	Evet
S	<a href="#">D11-P</a>	Estes	24 x 70	18	24.5	NAR	Evet
S	<a href="#">D12-0,3,5,7</a>	Estes	24 x 70	17	21.1	NAR	Evet
R	<a href="#">D13-4,7,10</a>	Aerotech	18 x 70	20	9.8	NAR	Evet
R	<a href="#">D15-4,6</a>	Aerotech	24 x 70	20	8.9	NAR	Evet
S	D16-4,6,8	Quest	18 x 78.6	12.4	12.5	TRA	Evet
S	<a href="#">D21-4,7</a>	Aerotech	18 x 70	20	9.6	NAR	Evet

Tip Tanımı	Üretici	Boyutları (mm)	İtici kuvvet (N-san)	İtici yakıt Ağırlığı (g)	Test Kurumu	Yarışma Onaylı	Yarışma Kullanım Sonu
R <a href="#">D24-4,7</a>	Aerotech	18 x 70	18.5	8.8	NAR	Evet	
S <a href="#">E6-4,6,8,P</a>	Aerotech	24 x 70	37.8	22	NAR	Hayır	
S <a href="#">E6-4,6,8,P</a>	Apogee	24 x 70	37.8	22	NAR	Evet	
R <a href="#">E6-RC</a>	Aerotech	24 x 70	40	21.5	NAR	Evet	
R <a href="#">E7-RC</a>	Aerotech	24 x 70	30	17.1	NAR	Evet	
S <a href="#">E9-0</a>	Estes	24 x 95	28.5	35.8	NAR	Hayır	
S <a href="#">E9-4,6,8,P</a>	Estes	24 x 95	28.5	35.8	NAR	Evet	
R <a href="#">E11J-3</a>	Aerotech	24 x 70	31.7	25	NAR	Evet	
S <a href="#">E12-0,4,6,8</a>	Estes	24 x 95	27.24	35.9	NAR	Evet	
R <a href="#">E12J-RC</a>	Aerotech	24 x 70	36	30.3	NAR	Evet	
S <a href="#">E15-4,7</a>	Aerotech	24 x 70	35	16.2	NAR	Evet	
S <a href="#">E15W-P</a>	Aerotech	24 x 70	40	20.1	NAR	Evet	
S <a href="#">E16-0,4,6,8</a>	Estes	29 x 114	33.38	40	NAR	Evet	
R <a href="#">E16-4,7</a>	Aerotech	29 x 124	40	19	NAR	Evet	
R <a href="#">E18-4,8</a>	Aerotech	24 x 70	39	20.7	NAR	Evet	
S <a href="#">E20W-4,7,10</a>	Aerotech	24 x 65	35	16.2	NAR	Evet	
R E22SS-13A	Cesaroni	24 x 69	24.2	13.4	CAR	Evet	
R <a href="#">E23-5,8</a>	Aerotech	29 x 124	37	17.4	NAR	Evet	
S E25R-4,7,P	Roadrunner	29 x 76	38.7	20.6	TRA	Hayır	
R <a href="#">E28-4,7</a>	Aerotech	24 x 70	40	18.4	NAR	Evet	
S <a href="#">E30-4,7</a>	Aerotech	24 x 70	33.6	17.8	NAR	Evet	
S <a href="#">E30-4,7</a>	Estes	24 x 70	33.6	17.8	NAR	Evet	
R E31WT-15A	Cesaroni	24 x 69	26.1	11.2	CAR	Evet	
R E75VM-17A	Cesaroni	24 x 69	24.8	10.4	CAR	Evet	

Tip Tanımı	Üretici	Boyutları (mm)	İtici kuvvet (N-san)	İtici yakıt Ağırlığı (g)	Test Kurumu	Yarışma Onaylı	Yarışma Kullanım Sonu
S <a href="#">F10-4,6,8</a>	Apogee	29 x 93	74.3	40	NAR	Evet	
R <a href="#">F12-2,5</a>	Aerotech	24 x 70	45	30	NAR	Evet	
R <a href="#">F13-RC</a>	Aerotech	32 x 107	63	32.3	NAR	Evet	
S <a href="#">F15-0,4,6,8</a>	Estes	29 x 114	49.61	60	NAR	Evet	
R <a href="#">F16-RC</a>	Aerotech	32 x 107	80	62.5	NAR	Evet	
S <a href="#">F20-4,7</a>	Aerotech	29 x 83	51.75	30	NAR	Evet	
S F21W-4,6,8	Aerotech	24 x 98	55	30	TRA	Hayır	
R <a href="#">F22-4,7</a>	Aerotech	29 x 124	65	46.3	NAR	Evet	
S <a href="#">F23FJ-4,7</a>	Aerotech	29 x 73	56	32	NAR	Evet	
S <a href="#">F23FJ-4,7</a>	Aerotech	29 x 83	41.2	30	NAR	Evet	
R <a href="#">F23SK-RC</a>	Aerotech	32 x 107	70	37.8	NAR	Evet	
R <a href="#">F24-4,7</a>	Aerotech	24 x 70	50	19	NAR	Evet	
S <a href="#">F25W-4,6,9</a>	Aerotech	29 x 98	80	35.6	NAR	Evet	
S <a href="#">F26FJ-6</a>	Estes	29 x 98	62.2	43.1	NAR	Evet	
S <a href="#">F26FJ-6,9</a>	Aerotech	29 x 98	62.2	43.1	NAR	Evet	
S <a href="#">F27R-4,8</a>	Aerotech	29 x 83	49.6	28.4	NAR	Evet	
R F29IM-12A	Cesaroni	29 x 98	54.8	30.9	CAR	Evet	
S <a href="#">F30FJ-4,6,8</a>	Aerotech	24 x 90	47	31.2	NAR	Evet	
R F30WH/LB-6A	Cesaroni	24 x 133	73.1	40	CAR	Evet	

R	F31CL-12A	Cesaroni	29 x 98	55.5	25.7	CAR	Evet
R	F32WH-12A	Cesaroni	29 x 98	52.8	29.9	CAR	Evet
S	<a href="#">F32T</a> -4,6,8	Aerotech	24 x 90	56.9	25.8	NAR	Evet
R	<a href="#">F35W</a> -5,8,11	Aerotech	24 x 95	57.1	30	NAR	Evet
S	<a href="#">F35</a> -6,10	Roadrunner	29 x 112	76.5	40.1	NAR	Hayır
R	F36SS-11A	Cesaroni	29 x 98	41.2	29.5	CAR	Evet
R	F36BS-14A	Cesaroni	29 x 98	51.5	25.6	CAR	Evet
R	<a href="#">F37</a> -6,10,14	Aerotech	29 x 99	50	28.2	NAR	Evet
R	<a href="#">F39</a> -3,6	Aerotech	24 x 70	50	22.7	NAR	Evet
R	<a href="#">F40</a> -4,7,10	Aerotech	29 x 124	80	40	NAR	Evet
S	<a href="#">F42T</a> -4,8	Aerotech	29 x 83	52.9	27	NAR	Evet
S	<a href="#">F44W</a> -4,8	Aerotech	24 x 70	41.46	19.7	NAR	Evet
S	F45R-5,8,P	Roadrunner	29 x 93	62.3	30	TRA	Hayır
R!	(HP) F50SK-13A	Cesaroni	24 x 133	59.7	31.7	CAR	HPR
S	<a href="#">F50T</a> -4,6	Estes	29 x 98	80	37.9	NAR	Evet
S	<a href="#">F50</a> -4,6,9	Aerotech	29 x 98	80	37.9	NAR	Evet
S	<a href="#">F50T</a> -6	PML	29 x 98	80	37.9	NAR	Hayır
R	<a href="#">F51NT</a> -10	Aerotech	24 x 95	55.11	26.5	NAR	Evet
R	F51CL-12A	Cesaroni	24 x 133	75	33	CAR	Evet
R	F51BS-13A	Cesaroni	24 x 101	49.9	22	CAR	Evet
R	<a href="#">F52</a> -6,8,11	Aerotech	29 x 124	78	36.6	NAR	Evet
R	F59WT-12A	Cesaroni	29 x 98	57	26.1	CAR	Evet
S	<a href="#">F60</a> -4,7,10	Roadrunner	29 x 112	75.9	38.1	NAR	Hayır
R	<a href="#">F62FJ</a> -10	Aerotech	24 x 95	47.57	32.2	NAR	Beklemede
R	F62T-S,M,L	Aerotech	29 x 89	51	30.5	TRA	Evet
R	<a href="#">F63R</a> -10	Aerotech	24 x 95	49.5	27.6	NAR	Beklemede
S	<a href="#">F67W</a> -4,6,9	Aerotech	29 x 83	61.12	30	NAR	Beklemede
R	F70WT-14A	Cesaroni	24 x 101	52.9	22.5	CAR	Evet
R	F79SS-13A	Cesaroni	24 x 133	67.8	40.1	CAR	Evet
R	(HP) F85WT-15A	Cesaroni	24 x 133	73.6	33.7	CAR	HPR
R	(HP) F120VM-14A	Cesaroni	29 x 98	56	25.3	CAR	HPR
R	(HP) F240VM-15A	Cesaroni	24 x 133	68.3	30.3	CAR	HPR

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R	<a href="#">G12</a> -RC	Aerotech	32 x 107	93	51.1	NAR	Evet
R	G25W-10A	Aerotech	29 x 124	109.48	97	TRA	Evet
R	<a href="#">G33</a> -5,7	Aerotech	29 x 124	100	72.2	NAR	Hayır
R	G33MY-9A	Cesaroni	29 x 187	143.1	79.1	CAR	Evet
S	<a href="#">G38FJ</a> -4,7	Aerotech	29 x 98	94	55	NAR	Evet
S	G39-6,10,P	Roadrunner	29 x 140	103	58.6	TRA	Hayır
S	<a href="#">G40</a> -4,7	Estes	29 x 124	97.1	55.1	NAR	Evet
S	<a href="#">G40W</a> -4,7	PML	29 x 124	120	55.1	NAR	Hayır
S	<a href="#">G40W</a> -4,7,10	Aerotech	29 x 124	97.1	55.1	NAR	Evet
S	G45-6,10,P	Roadrunner	29 x 140	110	58.6	TRA	Hayır
R	G46-11A	Cesaroni	38 x 127	127.3	62.5	CAR	Evet
R	G50IM-15A	Cesaroni	38 x 127	150	77.7	CAR	Evet
R	<a href="#">G53FJ</a> -5,7,10	Aerotech	29 x 124	90.9	60	NAR	Evet
R	G54RL-12A	Cesaroni	29 x 187	159.1	86.5	CAR	Evet

R	<a href="#">G54</a> -6,10,14	Aerotech	29 x 124	85	46	NAR	Evet	
H	(HP) G55-P	WCH	38 x 308	150.6	142cc	CAR	HPR	
R	G57CL-12A	Cesaroni	29 x 142	107.8	51.4	CAR	Evet	
R	G58WH-13A	Cesaroni	38 x 127	136.8	76.3	CAR	Evet	
R	G60-12A	Cesaroni	38 x 127	139.4	78.4	TRA	HPR	
R	G60-14A	Cesaroni	38 x 127	134.2	68.3	CAR	HPR	
R	G61W-S,M,L	Aerotech	38 x 106	110.5	61.5	TRA	Evet	
H	(HP) G63-P	SkyRipper	29 x 305	85	75cc	TRA	HPR	
R	<a href="#">G64</a> -4,8,10	Aerotech	29 x 124	120	62.5	NAR	Evet	
R	G65WH/LB-8A	Cesaroni	24 x 228	144.3	80	CAR	Evet	
R	G66LR-15A	Loki	38 x 120	134.457	72	TRA	Evet	
R	G67R-S,M	Aerotech	38 x 106	110	60	TRA	Evet	
R	G68WH-13A	Cesaroni	29 x 142	107.8	59.9	CAR	Evet	
R	G69-12A	Cesaroni	38 x 127	128.8	62.5	TRA	Evet	
R!	(HP) G69SK-14A	Cesaroni	38 x 127	117.15	198	TRA	HPR	
R!	(HP) G69SF-17A	Loki	38 x 127	106.1	63	TRA	HPR	
R	<a href="#">G69N</a> -P	Aerotech	38 x 106	136.7	62.2	NAR	Evet	
H	(HP) G69-P	SkyRipper	29 x 406	128	125cc	TRA	HPR	
\$	G70CT-18A	Loki	38 x 120	119.0677	64	TRA	HPR	
R	<a href="#">G71R</a> -4,7,10	Aerotech	29 x 124	107	56.9	NAR	Hayır	
S	<a href="#">G74W</a> -4,6	Aerotech	29 x 83	82.74	39.3	NAR	Evet	
S!	(HP) G75M-4,7,10	Aerotech	29 x 124	120.39	66.8	TRA	HPR	
R	G75J-S,M	Aerotech	29 x 194	135.6	104.3	TRA	Evet	
R	<a href="#">G76G</a> -4,7,10	Aerotech	29 x 124	115	60	NAR	Evet	
S	<a href="#">G77R</a> -4,7,10	Aerotech	29 x 146	102.9	58.1	NAR	Evet	
R	G77R-S,M	Aerotech	29 x 150	105	58	TRA	Evet	
R	G78BS-15A	Cesaroni	38 x 127	140.9	67	TRA	Evet	
S	<a href="#">G78G</a> -4,7,10	Aerotech	29 x 146	109.9	59.7	NAR	Evet	
R	G79SS-13A	Cesaroni	38 x 127	129	100	CAR	Evet	
S	<a href="#">G79W</a> -4,7,10	Aerotech	29 x 146	108	60.1	NAR	Evet	
R	G79W-S.M.L	Aerotech	29 x 150	108.6	62	TRA	Evet	
S	G80NT-14A	Aerotech	29 x 128	132.17	62.5	TRA	Evet	
R!	(HP) G80SK-14A	Cesaroni	29 x 142	92.9	50	CAR	HPR	
R	G80LW-17A	Loki	38 x 127	122.5	60	TRA	Evet	
S	<a href="#">G80T</a> -4,7	PML	29 x 124	120	56.9	NAR	Hayır	
S	<a href="#">G80</a> -4,7,10	Aerotech	29 x 124	120	56.9	NAR	Evet	
S	<a href="#">G80</a> -4,7,10	Roadrunner	29 x 140	105.7	54.7	NAR	Hayır	30/12/2017
S	<a href="#">G80T</a> -7,10	Estes	29 x 128	136.6	62.5	NAR	Evet	
S	<a href="#">G80T</a> -7,10,13	Aerotech	29 x 128	136.6	62.5	NAR	Evet	
R	(HP) G82W-S,M,L	Kosdon/AT	29 x 206	141	84	TRA	HPR	
R	(HP) G83BS-14A	Cesaroni	29 x 142	107.4	51.1	CAR	HPR	
R	(HP) G84GR-10A	Cesaroni	24 x 228	131	77.3	CAR	HPR	
R	(HP) G88SS-11A	Cesaroni	29 x 142	84.3	59	CAR	HPR	
R	(HP) G94IB-18A	Loki	38 x 120	121.1148	62	TRA	HPR	
R!	(HP) G100SK-14A	Cesaroni	24 x 228	114.5	63.3	CAR	HPR	
H	(HP) G100-P	Contraail	38 x 407	146	140cc	TRA	HPR	
R	(HP) G104T-S,M,L	Aerotech	29 x 125	81.5	43.9	TRA	HPR	
R!	(HP) G106SK-14A	Cesaroni	29 x 187	138.3	75	CAR	HPR	
R	(HP) G107WH-12A	Cesaroni	24 x 228	139.1	75.7	CAR	HPR	

R	(HP) G115-13A	Cesaroni	38 x 127	140.6	61.8	CAR	HPR
R	(HP) G117WH-11A	Cesaroni	24 x 228	142.3	79.1	CAR	HPR
R	(HP) G118BS-15A	Cesaroni	29 x 187	159.1	76.7	CAR	HPR
H	(HP) G123-P	Contrail	38 x 407	142	140cc	TRA	HPR
S	(HP) G125T-14A	Aerotech	29 x 127	124.807	62	TRA	HPR
R	(HP) G125RL-14A	Cesaroni	29 x 187	159.6	81.9	CAR	HPR
H	(HP) G125-P	SkyRipper	38 x 406	145	120cc	TRA	HPR
R	(HP) G126WT-13A	Cesaroni	29 x 142	116	52.1	CAR	HPR
R	(HP) G127RL-14A	Cesaroni	24 x 228	137.3	70.5	CAR	HPR
H	(HP) G130-P	Contrail	38 x 407	100	140cc	TRA	HPR
R	(HP) G131SS-14A	Cesaroni	29 x 187	125.2	88.6	CAR	HPR
R	(HP) G135R-SML	Kosdon/AT	29 x 206	146	90	TRA	HPR
R	<a href="#">(HP) G138T-14a</a>	Aerotech	29 x 124	157.1	70	NAR	HPR
R	<a href="#">(HP) G142-6,10,14</a>	Aerotech	29 x 113	84.3	38.6	NAR	HPR
R	(HP) G145PK-15A	Cesaroni	24 x 228	139.7	66.7	CAR	HPR
R	(HP) G150BS-13A	Cesaroni	24 x 228	142.5	65.9	CAR	HPR
H	(HP) G170PVC-P	Contrail	38 x 406	82.9	140cc	TRA	HPR
R	(HP) G185-12A	Cesaroni	38 x 127	128	62.1	CAR	HPR
H	(HP) G234-P	Contrail	38 x 414	118	90cc	TRA	HPR
R	(HP) G250VM-14A	Cesaroni	29 x 142	110	50.6	CAR	HPR
H	(HP) G300-P	Contrail	38 x 406	100	90cc	TRA	HPR
R	(HP) G339-P	Aerotech	38 x 106	110	48	TRA	HPR

Tip Tanımı	Üretici	Boyutları (mm)	İtici kuvvet (N-san)	İtici yakıt Ağırlığı (g)	Test Kurumu	Yarışma Onaylı	Yarışma Kullanım Sonu
R	H42MY-10A	Cesaroni	29 x 231	83.5	105.5	CAR	HPR
S	H45W-10A	Aerotech	29 x 203	309.176	172	TRA	HPR
S	H45W-14A	Aerotech	38 x 202	296.74	180	TRA	HPR
R	H53MY-12A	Cesaroni	29 x 276	234.2	131.9	CAR	HPR
R	H54WH/LB-10A	Cesaroni	29 x 187	167.7	96.6	CAR	HPR
S	H55W-6,10,14	Aerotech	29 x 191	162.3	99.7	TRA	HPR
H	H70-P	Propulsion	38 x 464	237	217cc	CAR	HPR
H	H70-P	RATTworks	29 x 457	204.3	135.8cc	TRA	HPR
R	H73J-S,M	Aerotech	38 x 152	185.6	142.7	TRA	HPR
H	H78-P	SkyRipper	29 x 523	172.9	185cc	TRA	HPR
R	H87IM-12A	Cesaroni	29 x 187	167.9	92.7	CAR	HPR
R	H90CL-12A	Cesaroni	29 x 187	164.2	77.1	CAR	HPR
R	H90LR-14A	Loki	38 x 177	234.4	120	TRA	HPR
R	H97J-S,M	Aerotech	29 x 238	177.3	137.1	TRA	HPR
S	H100W-10A	Aerotech	38 x 155	226.83	136	TRA	HPR
R	H100IM-15A	Cesaroni	38 x 186	286.4	154.4	CAR	HPR
<b>R!</b>	<b>H100SF-17A</b>	<b>Loki</b>	<b>38 x 177</b>	<b>201.5</b>	<b>120</b>	<b>TRA</b>	<b>HPR</b>
H	H100-P	WCH	38 x 403	247	189cc	CAR	HPR
R	H110WH-14A	Cesaroni	38 x 186	269.1	152.6	CAR	HPR
R	H112J-6,10,14	Aerotech	38 x 191	261.1	191.2	TRA	HPR
<b>S!</b>	<b>H115DM-14A</b>	<b>Aerotech</b>	<b>29 x 203</b>	<b>176.52</b>	<b>113</b>	<b>TRA</b>	<b>HPR</b>
R	H118CL-12A	Cesaroni	29 x 231	216.2	102.8	CAR	HPR
R	H120-14A	Cesaroni	38 x 186	260.7	136.6	CAR	HPR
H	H121-P	Contrail	38 x 508	225	185cc	TRA	HPR



R!	H123SK-12A	Cesaroni	29 x 231	176.5	100	CAR	HPR
R	H123-14A	Cesaroni	38 x 186	232.4	123	CAR	HPR
R	H123W-6,10,14	Aerotech	38 x 152	223.6	119	TRA	HPR
H	H124-P	SkyRipper	38 x 533	225	220cc	TRA	HPR
R	H125-12A	Cesaroni	38 x 186	265.6	125	CAR	HPR
R	H125CT-18A	Loki	38 x 390	240.428	122	TRA	HPR
R	H128W-S,M,L	Aerotech	29 x 194	172.9	93.6	TRA	HPR
R	H130W-14A	Aerotech	38 x 154	213.187	123	TRA	HPR
R	H130W-P	Kosdon/AT	29 x 291	247	140	TRA	HPR
R	H133BS-14A	Cesaroni	29 x 187	163.3	76.7	CAR	HPR
R	H135WH-12A	Cesaroni	29 x 231	216.7	119.8	CAR	HPR
S	H135W-14A	Aerotech	29 x 216	225.84	82	TRA	HPR
R	H140CL-11A	Cesaroni	29 x 276	268	128.5	CAR	HPR
R	H140VM-14A	Cesaroni	29 x 187	167.7	75.9	CAR	HPR
H	H141-P	Contrail	38 x 508	241	185cc	TRA	HPR
R	H143SS-13A	Cesaroni	38 x 186	247	187	CAR	HPR
R	H144LW-17A	Loki	38 x 190	239.3	126	TRA	HPR
R	H148R-S,M,L	Aerotech	38 x 152	206	122	TRA	HPR
R	H151RL-15A	Cesaroni	29 x 231	207.2	109.1	CAR	HPR
R	H152BS-15A	Cesaroni	38 x 185	275.9	137	TRA	HPR
R	H153-13A	Cesaroni	38 x 186	258	143.9	TRA	HPR
H	H155-P	SkyRipper	38 x 533	229	220cc	TRA	HPR
R	H159GR-15A	Cesaroni	29 x 320	298.2	176.6	CAR	HPR
R	H160CL-12A	Cesaroni	29 x 320	311.7	154.2	CAR	HPR
R!	H160SK-14A	Cesaroni	29 x 276	220.5	125	CAR	HPR
R	H160LB-15A	Loki	38 x 177	260.1	120	TRA	HPR
R	H163WT-14A	Cesaroni	29 x 187	166.3	78.2	CAR	HPR
R	H165R-M,L	Aerotech	29 x 194	165	90	TRA	HPR
R!	H170M-14A	Aerotech	38 x 192	319.9	182.5	TRA	HPR
R	H170BS-14A	Cesaroni	29 x 231	217.1	102.3	CAR	HPR
R	H175SS-14A	Cesaroni	29 x 231	166	118.1	CAR	HPR
R!	H178DM-14A	Aerotech	38 x 192	283	177	TRA	HPR
R!	H180SK-14A	Cesaroni	29 x 320	258	150	CAR	HPR
R	H180W-S,M,L	Aerotech	29 x 238	217.7	125	TRA	HPR
S	H182R-14A	Aerotech	29 x 203	216.78	115	TRA	HPR
R	H186RT-20A	Gorilla	38 x 249	312.12	178	TRA	HPR
R	H194RL-14A	Cesaroni	29 x 276	260.3	136.4	CAR	HPR
S	H195NT-10A	Aerotech	29 x 222	236.09	107	TRA	HPR
R	H200BS-14A	Cesaroni	29 x 276	260.8	127.9	CAR	HPR
H	H200BS-P	Contrail	54 x 762	269	N/A	TRA	HPR
R	<a href="#">H210R</a> -10,P	Aerotech	29 x 238	220	110.8	NAR	HPR
H	H211	Contrail	38 x 508	206	185cc	TRA	HPR
R	<a href="#">H220T</a> -6,10,14	Aerotech	29 x 238	220	106.4	NAR	HPR
H	H222-P	Contrail	38 x 406	161	140cc	TRA	HPR
R	H225-14A	Cesaroni	38 x 186	273.2	123.6	CAR	HPR
R!	H225BL-P	Gorilla	38 x 249	226	162	TRA	HPR
R!	H226SK-14A	Cesaroni	29 x 365	305	175	CAR	HPR
R	H233RL-14A	Cesaroni	29 x 320	311.5	163.7	CAR	HPR
R	H237SS-13A	Cesaroni	29 x 276	206.2	147.6	CAR	HPR



R	H238T-6,10,14	Aerotech	29 x 194	165.5	85	TRA	HPR
R	H242T-6,10,14	Aerotech	38 x 152	231.7	115	TRA	HPR
H	H246-P	Conrail	38 x 508	222	185cc	TRA	HPR
H	H248PVC-P	Conrail	38 x 719	261.5	275cc	TRA	HPR
R	H250G-S,M,L	Aerotech	29 x 239	219.5	120	TRA	HPR
R	H255BS-14A	Cesaroni	29 x 320	315.4	153.4	CAR	HPR
R	H255WT-14A	Cesaroni	29 x 231	229.3	104.3	CAR	HPR
R	<a href="#">H268R</a> -10,14,P	Aerotech	29 x 333	320	166	NAR	HPR
H	H277-P	Conrail	38 x 712	292	370cc	TRA	HPR
R	H295SS-13A	Cesaroni	29 x 320	252.7	177.1	CAR	HPR
H	H300-P	Conrail	38 x 508	161	185cc	TRA	HPR
H	H303-P	Conrail	38 x 508	170	185cc	TRA	HPR
R	H340SS-14A	Cesaroni	29 x 365	287.3	206.7	CAR	HPR
H	H340-P	Conrail	38 x 719	304.5	275cc	TRA	HPR
R	H399WT-12A	Cesaroni	29 x 320	282.2	132.6	CAR	HPR
R	H400-13A	Cesaroni	38 x 186	255	122.4	TRA	HPR
R	H410-14A	Cesaroni	29 x 187	167.70	75.9	CAR	HPR
R	H500-17A	Loki	38 x 295	317	156	TRA	HPR
S	H550ST-14A	Aerotech	38 x 206	312.06	176	TRA	HPR
R	H550ST-14A	Aerotech	38 x 193	309.98	154	TRA	HPR
R	H565-A	Cesaroni	38 x 245	319.8	165	CAR	HPR
R	H669-P	Aerotech	38 x 152	221	98	TRA	HPR
R	H999-P	Aerotech	38 x 203	319.9	147	TRA	HPR

Tip Tanımı	Üretici	Boyutları (mm)	İtici kuvvet (N-san)	İtici yakıt Ağırlığı (g)	Test Kurumu	Yarışma Onaylı	Yarışma Kullanım Sonu
R	<a href="#">I49N</a> -P	Aerotech	38 x 184	383	190.8	NAR	HPR
R	I55MY-9A	Cesaroni	38 x 245	294.6	223.8	CAR	HPR
R	<a href="#">I59WN</a> -P	Aerotech	38 x 232	486	251.7	NAR	HPR
S	I65W-10A	Aerotech	54 x 217.9	634.967	377	TRA	HPR
S	I65W-10A	Aerotech	38 x 216	634.428	420	TRA	HPR
S	<a href="#">I65W</a> -P	Aerotech	54 x 235	630.5	369.7	NAR	HPR
H	I80-P	Propulsion	38 x 646	460	383cc	CAR	HPR
H	I80-P	RATTworks	29 x 730	360	276cc	TRA	HPR
H	I90L-P	RATTworks	29 x 921	493.8	361cc	TRA	HPR
R	I100RL/LB-17A	Cesaroni	54 x 236	613.6	350.1	CAR	HPR
R	I110LW-M,L	Loki	38 x 305	487	289	TRA	HPR
H	I110-P	WCH	38 x 606	499.7	334cc	CAR	HPR
R	I115W-S,M,L	Aerotech	54 x 156	409.3	229	TRA	HPR
H	I117-P	SkyRipper	38 x 914	592	580cc	TRA	HPR
R	I117FJ-S,M,L	Aerotech	54 x 156	364.9	253	TRA	HPR
H	I119-P	SkyRipper	38 x 711	407	400cc	TRA	HPR
R	I120IM-15A	Cesaroni	54 x 143	501.8	263.1	CAR	HPR
H	I130(300CC098J)-P	Hypertek	54 x 546	470.6	300cc	TRA	HPR
H	I136(300CC098J2)-P	Hypertek	54 x 546	507	300cc	TRA	HPR
S	I140W-14A	Aerotech	38 x 203	335.53	183	TRA	HPR
R!	<b>I140SK-14A</b>	Cesaroni	54 x 143	395.6	210.4	CAR	HPR
H	I145FX(300CC098JFX)-P	Hypertek	54 x 546	541	300cc	TRA	HPR
H	I147-P	SkyRipper	38 x 711	519	400cc	TRA	HPR

R	I150BS-11A	Cesaroni	54 x 152	465.1	224	TRA	HPR
R	I154J-6,10	Aerotech	38 x 241	378	252.8	TRA	HPR
H	I155HP-P	Contrail	38 x 719	541	370cc	TRA	HPR
H	I160-P	Propulsion	38 x 646	484	383cc	CAR	HPR
R	I161W-S,M,L	Aerotech	38 x 191	328.7	178.6	TRA	HPR
R	I165CS-17A	Cesaroni	54 x 69	518.2	230.1	CAR	HPR
R	I170G-10A	Aerotech	54 x 174	418.54	227	TRA	HPR
R	I170-14a	Cesaroni	38 x 245	382	187.5	CAR	HPR
R	I170S-L	Kosdon/AT	38 x 314	374	182	TRA	HPR
R	I175WH-14A	Cesaroni	38 x 245	411.4	228.9	CAR	HPR
R	I180W-14A	Aerotech	38 x 201	325.584	186	TRA	HPR
R!	<a href="#">I180SK-14A</a>	Cesaroni	38 x 245	338.43	394	TRA	HPR
R	I195-16A	Cesaroni	38 x 245	396.2	204.9	CAR	HPR
R	<a href="#">I195WW-18</a>	Animal	38 x 249	358	192.2	NAR	HPR
R	I195J-6,10,14	Aerotech	38 x 299	426.1	272	TRA	HPR
R	I200W-6,10,14	Aerotech	29 x 333	324.5	186.5	TRA	HPR
R	I204IM-13A	Cesaroni	29 x 320	347.7	185.4	CAR	HPR
R	I205-13A	Cesaroni	38 x 245	380.9	206.1	TRA	HPR
S	I205W-14A	Aerotech	29 x 304	339.342	207	TRA	HPR
H	I205(300CC125J)-P	Hypertek	54 x 546	469	300cc	TRA	HPR
R	I210LR-14A	Loki	38 x 292	489.8	240	TRA	HPR
H	I210-P	Contrail	38 x 915	497	550cc	TRA	HPR
R	I211W-6,10,14	Aerotech	38 x 248	441.6	238	TRA	HPR
R	I212SS-14A	Cesaroni	38 x 245	364	275	CAR	HPR
R	I215R-S,M,L	Aerotech	54 x 156	397	208	TRA	HPR
R	I216CL(I)-14A	Cesaroni	38 x 367	636.1	312.5	CAR	HPR
R	I218WT-14A	Cesaroni	54 x 152	491.2	230	TRA	HPR
R	<a href="#">I218R-6,14,P</a>	Aerotech	38 x 203	330	172.7	NAR	HPR
R!	<a href="#">I220SK-20</a>	Animal	38 x 249	358	201.9	NAR	HPR
H	I221-P	Contrail	38 x 712	370	370cc	TRA	HPR
H	I222(300CC125J2)-P	Hypertek	54 x 546	519	300cc	TRA	HPR
R!	<a href="#">I223SK-14A</a>	Cesaroni	38 x 303	434.05	494	TRA	HPR
R	I223GT-20A	Gorilla	38 x 249	327.93	181	TRA	HPR
R	I224CL-15A	Cesaroni	29 x 365	381.5	182.5	CAR	HPR
R	I225FJ-6,10,14	Aerotech	38 x 250	368	264	TRA	HPR
H	I225FX(300CC125JFX)-P	Hypertek	54 x 546	527.5	300cc	TRA	HPR
R	I229T-S,M,L	Aerotech	54 x 156	411	206	TRA	HPR
R	I235WC-P	Gorilla	38 x 249	324	313	TRA	HPR
R	I236BS-17A	Cesaroni	38 x 243	413	204	TRA	HPR
R	I240-15A	Cesaroni	38 x 303	555.8	279	TRA	HPR
R	I242WH-15A	Cesaroni	38 x 303	548.2	305.2	CAR	HPR
R	I243WH-13A	Cesaroni	29 x 365	381.7	212.1	CAR	HPR
R	I245G-S,M,L	Aerotech	38 x 201	334.07	187	TRA	HPR
H	I247WS-P	Contrail	54 x 711	637	N/A	TRA	HPR
H	<a href="#">I250-P</a>	Alpha	54 x 711	540	353.8	NAR	HPR
H	I250HP-P	Contrail	38 x 719	430	275cc	TRA	HPR
R	I255-16A	Cesaroni	38 x 303	517.3	273.2	CAR	HPR
H	I260(440CC172J)-P	Hypertek	54 x 614	570.4	440cc	TRA	HPR
R	<a href="#">I271BB-20</a>	Animal	38 x 258	390	188.7	NAR	HPR

<b>S!</b>	<b>I280DM-14A</b>	<b>Aerotech</b>	<b>38 x 355</b>	<b>561.44</b>	<b>355</b>	<b>TRA</b>	<b>HPR</b>	
R	I280F-L	Kosdon/AT	38 x 314	382	182	TRA	HPR	
R	I284W-6,10,14	Aerotech	38 x 299	607.3	315.9	TRA	HPR	
R	<a href="#">I285R</a> -10,14,P	Aerotech	38 x 250	420	230.2	NAR	HPR	
R	I285-15A	Cesaroni	38 x 303	510.1	272.4	TRA	HPR	
R	<a href="#">I285GG</a> -20	Animal	38 x 258	353	206.5	NAR	HPR	
R	I287SS-15A	Cesaroni	38 x 303	486	363	CAR	HPR	
H	I290-P	Contrail	38 x 922	430	460cc	TRA	HPR	
<b>R!</b>	<b>I297SK-15A</b>	<b>Cesaroni</b>	<b>38 x 367</b>	<b>542.8</b>	<b>591</b>	<b>TRA</b>	<b>HPR</b>	
R	<a href="#">I300T</a> -6,10,14	Aerotech	38 x 250	440	221.6	NAR	HPR	
R(a)	<a href="#">I301W</a> -18	Kosdon/AT	38 x 370	554	310	NAR	HPR	
R	I303BS-16A	Cesaroni	38 x 302	537.6	270	TRA	HPR	
R	I305FJ-6,10,14	Aerotech	38 x 299	452	330	TRA	HPR	
H	I307-P	Contrail	38 x 915	573	550cc	TRA	HPR	
H	I310(440CC172J)	Hypertek	54 x 645	574.5	440cc	TRA	HPR	
R	I310S-S,L,P	Kosdon/AT	38 x 368	633.8	316.3	TRA	HPR	
<b>R!</b>	<b><a href="#">I315SK</a>-20</b>	<b>Animal</b>	<b>38 x 370</b>	<b>572</b>	<b>333.7</b>	<b>NAR</b>	<b>HPR</b>	
<b>R!</b>	<b>I316SF-17A</b>	<b>Loki</b>	<b>38 x 292</b>	<b>432.2</b>	<b>240</b>	<b>TRA</b>	<b>HPR</b>	
R	I324RT-20A	Gorilla	38 x 370	526.46	299	TRA	HPR	
R	<a href="#">I325WW</a> -18	Animal	38 x 370	594	316.8	NAR	HPR	
<b>R!</b>	<b>I327DM-14A</b>	<b>Aerotech</b>	<b>38 x 337</b>	<b>539</b>	<b>354</b>	<b>TRA</b>	<b>HPR</b>	
H	I333-P	Contrail	38 x 922	556	460cc	TRA	HPR	
R	I345-15A	Cesaroni	38 x 245	408.58	185.4	CAR	HPR	
S	I350R-10	Aerotech	38 x 355	634	348	TRA	HPR	
R	I350SS-16A	Cesaroni	38 x 367	601	413	CAR	HPR	
R	I357T-S,M,L	Aerotech	38 x 203	342	170	TRA	HPR	
R	I360-15A	Cesaroni	38 x 367	625.5	334.6	TRA	HPR	
R	I364FJ-6,10,14	Aerotech	38 x 337	570	396	TRA	HPR	
R	I366R-M,L	Aerotech	38 x 299	539	300	TRA	HPR	
R	I370F-P	Kosdon/AT	38 x 368	634.3	316.9	TRA	HPR	
R	<a href="#">I375GG</a> -20	Animal	38 x 370	596	340.2	NAR	HPR	
R	I377CT-18A	Loki	38 x 640	522.2865	250	TRA	HPR	
R	I389GT-20A	Gorilla	38 x 370	553.15	303	TRA	HPR	31/12/2014
<b>R!</b>	<b>I392BL-18A</b>	<b>Gorilla</b>	<b>38 x 370</b>	<b>446.12</b>	<b>270</b>	<b>TRA</b>	<b>HPR</b>	
R	I396LS-17A	Loki	38 x 406	611	372	TRA	HPR	
H	I400-P	Contrail	38 x 922	432	550cc	TRA	HPR	
R	I405LW-17A	Loki	38 x 305	493.2	252	TRA	HPR	
R	I430LB-15A	Loki	38 x 292	532.6	240	TRA	HPR	
R	I435T-6,10,14	Aerotech	38 x 299	568.9	273	TRA	HPR	
R	I450F-L	Kosdon/AT	38 x 368	633	302	TRA	HPR	
R	I455VM-16A	Cesaroni	54 x 143	474.9	212.7	CAR	HPR	
R	I462WC-18A	Gorilla	38 x 370	556.73	292	TRA	HPR	
R	I470-15A	Cesaroni	38 x 303	540.1	247.2	CAR	HPR	
S	I500T-14A	Aerotech	38 x 355	614.45	248	TRA	HPR	
H	I500-P	Contrail	38 x 712	336	275cc	TRA	HPR	
R	I540WT-16A	Cesaroni	38 x 367	635	269.4	CAR	HPR	
R(a)	<a href="#">I550R</a> -20	Kosdon/AT	38 x 370	575	295	NAR	HPR	
R	I566-16A	Cesaroni	38 x 245	370	183.6	CAR	HPR	
R	I599N-P	Aerotech	54 x 156	404.9	195	TRA	HPR	

R	I600R-M	Aerotech	38 x 337	597.3	330	TRA	HPR
H	I727-P	Contrail	38 x 922	611	410cc	TRA	HPR
H	I747-P	Contrail	38 x 719	431	225cc	TRA	HPR
R	I800-16A	Cesaroni	38 x 303	419	221	CAR	HPR
R	I1299N-P	Aerotech	38 x 250	422	192	TRA	HPR

Tip Tanımı	Üretici	Boyutları (mm)	İtici kuvvet (N-san)	İtici yakıt Ağırlığı (g)	Test Kurumu	Yarışma Onaylı	Yarışma Kullanım Sonu
R	J90W-S,M,L	Aerotech	54 x 243	707.3	426	TRA	HPR
R	J94MY-P	Cesaroni	38 x 367	644	372.9	CAR	HPR
R	J99N-P	Aerotech	54 x 244	945.2	556	TRA	HPR
H	J115(440CC076J)-P	Hypertek	54 x 614	474	440cc	TRA	HPR
H	J120FX(440CC076JFX)-P	Hypertek	54 x 614	758	440cc	TRA	HPR
S	J135W-S,M,L	Aerotech	54 x 368	1069	663	TRA	HPR
R	J140WH/LB-P	Cesaroni	54 x 329	1210.6	680	CAR	HPR
H	J140-P	Propulsion	38 x 881	664	596cc	CAR	HPR
H	J144-P	SkyRipper	38 x 914	699	580cc	TRA	HPR
<b>R!</b>	<b>J145SK-19A</b>	<b>Cesaroni</b>	<b>54 x 236</b>	<b>699.1</b>	<b>417</b>	<b>CAR</b>	<b>HPR</b>
R	J150MY-P	Cesaroni	38 x 500	949.2	567.7	CAR	HPR
H	J150-P	Contrail	38 x 922	654	550cc	TRA	HPR
H	J160-P	RATTworks	38 x 1219	667	490cc	TRA	HPR
R	J167WC-P	Gorilla	54 x 326	950	600	TRA	HPR
H	J170(440CC098J)-P	Hypertek	54 x 614	728	440cc	TRA	HPR
R	J175LW-PS	Loki	54 x 330	1146	630	TRA	HPR
R	J180T-S,M,L	Aerotech	54 x 230	764	437.1	TRA	HPR
H	J190FX(440CC098JFX)-P	Hypertek	54 x 614	827	440cc	TRA	HPR
R	J210-16A	Cesaroni	54 x 236	836	396	CAR/NAR	HPR
H	J220(440CC110J)-P	Hypertek	54 x 645	721	440cc	TRA	HPR
H	J222-P	Contrail	38 x 1227	928	830cc	TRA	HPR
<b>R!</b>	<b>J230SK-P</b>	<b>Animal</b>	<b>54 x 326</b>	<b>995</b>	<b>525.7</b>	<b>NAR</b>	<b>HPR</b>
H	J234-P	Contrail	54 x 922	1033	910cc	TRA	HPR
R	J240-16A	Cesaroni	54 x 236	806	446	CAR	HPR
H	J242-P	Contrail	38 x 1220	752	830cc	TRA	HPR
R	J244WH-14A	Cesaroni	54 x 236	867.2	472.1	CAR	HPR
H	J245-P	Contrail	54 x 719	644	530cc	TRA	HPR
H	J246-P	Contrail	38 x 922	673	550cc	TRA	HPR
<b>R!</b>	<b>J250SK-15A</b>	<b>Cesaroni</b>	<b>54 x 236</b>	<b>682.8</b>	<b>406</b>	<b>TRA</b>	<b>HPR</b>
H	J250-P	Contrail	38 x 711	430	370cc	TRA	HPR
H	J250(440CC125J)-P	Hypertek	54 x 614	744.5	440cc	TRA	HPR
R	J250FJ-S,M,L,XL	Aerotech	54 x 241	711.6	511	TRA	HPR
H	J261G-P	SkyRipper	54 x 727	1248	830cc	TRA	HPR
H	J263G-P	SkyRipper	54 x 607	844	550cc	TRA	HPR
R	J270GR-13A	Cesaroni	38 x 367	650.3	376	CAR	HPR
S	J270W-14A	Aerotech	38 x 355	703.39	381	TRA	HPR
H	J270FX(440CC125JFX)-P	Hypertek	54 x 614	802.2	440cc	TRA	HPR
H	J272-P	Contrail	54 x 922	1065.5	910cc	TRA	HPR
R	J275W-S,M,L,XL	Aerotech	54 x 230	774	472	TRA	HPR
H	J277WS-P	Contrail	54 x 914	1031	N/A	TRA	HPR
R	J280SS-16A	Cesaroni	54 x 236	716.5	512	CAR	HPR

R	J285-15A	Cesaroni	38 x 360	684	327	CAR	HPR	
R	J290WH-15A	Cesaroni	38 x 367	683.6	381.5	CAR	HPR	
H	J292-P	Contrail	54 x 719	734	530cc	TRA	HPR	
R	J293BS-13A	Cesaroni	54 x 236	837.8	414	TRA	HPR	
R	J295-16A	Cesaroni	54 x 320	1196.3	594	CAR	HPR	
H	J295FX(440CC172JFX)-P	Hypertek	54 x 552	655	440cc	TRA	HPR	
R	J300-15A	Cesaroni	38 x 360	694	345.4	TRA	HPR	
R	J315R-L,P	Aerotech	54 x 230	763.3	438	TRA	HPR	
H	J315-P	Hypertek	81 x 552	998.8	440cc	TRA	HPR	
R	J316PK-17A	Cesaroni	38 x 367	654.3	337.9	CAR	HPR	
R	J320LR-14A	Loki	38 x 406	721	372	TRA	HPR	
R	J325-P	Cesaroni	54 x 326	1099	537	CAR	HPR	
R	J330-16A	Cesaroni	38 x 419	765	392	CAR	HPR	
H	J330FX(835CC172JFX)-P	Hypertek	81 x 552	1051	835cc	TRA	HPR	
H	J333-P	Contrail	38 x 1220	752	830cc	TRA	HPR	
R	J335-15A	Cesaroni	38 x 367	649.2	341.5	CAR	HPR	
H	J335BG-P	Contrail	54 x 719	679	530cc	TRA	HPR	
H	J337B-P	SkyRipper	54 x 727	1073	830cc	TRA	HPR	
R!	J340M-14A	Aerotech	38 x 336	651.7	365	TRA	HPR	
H	J345-P	Contrail	38 x 1227	891	735cc	TRA	HPR	
H	J348B-P	SkyRipper	54 x 607	716	550cc	TRA	HPR	
R!	J350SF-PS	Loki	54 x 327	931	574	TRA	HPR	
R	J350W(0.5""core)"-S,M,L	Aerotech	38 x 337	670.1	361.1	TRA	HPR	
R	J350W(.425 core)-S,M,L	Aerotech	38 x 337	697.4	381.1	TRA	HPR	
R	J354WH-16A	Cesaroni	38 x 421	818.7	457.8	CAR	HPR	
R	J355-16A	Cesaroni	54 x 329	1189.5	669	CAR	HPR	
H	J355-P	Contrail	54 x 712	678.9	530cc	TRA	HPR	
R	J357BS-17A	Cesaroni	38 x 360	657.6	338	TRA	HPR	
R	<a href="#">J357WW</a> -P	Animal	54 x 326	1000	548.1	NAR	HPR	
H	J358-P	Contrail	54 x 922	913.9	910cc	TRA	HPR	
R	J360-15A	Cesaroni	38 x 419	826	413.1	TRA	HPR	
R	J360SM-16A	Cesaroni	54 x 320	1015.9	606	TRA	HPR	
R!	<a href="#">J365SK</a> -P	Animal	54 x 403	1125	702.3	NAR	HPR	
R!	J365BL-P	Gorilla	54 x 326	852	498	TRA	HPR	
R	<a href="#">J370GG</a> -P	Animal	54 x 326	1040	598.3	NAR	HPR	
R	J380SS-16A	Cesaroni	54 x 320	1043	769	CAR	HPR	
R!	J381SK-15A	Cesaroni	38 x 421	659.9	688	TRA	HPR	
R	J394GR-13A	Cesaroni	38 x 500	970.4	572.1	CAR	HPR	
R	J395-P	Cesaroni	54 x 326	1079.3	573	CAR	HPR	
R	J395RT-P	Gorilla	N/A x N/A	1026	524	TRA	HPR	
R	J400SS-16A	Cesaroni	38 x 419	700	490	CAR	HPR	
R	<a href="#">J400RR</a> -P	Animal	54 x 326	1100	558	NAR	HPR	
R	J400-P	Cesaroni	54 x 326	976.9	723	CAR	HPR	
R	J401FJ-S,M,L	Aerotech	54 x 314	1115.4	730	TRA	HPR	
R	J405S-L	Kosdon/AT	38 x 476	722	367	TRA	HPR	
R	J410-16A	Cesaroni	38 x 421	773.8	409.8	CAR	HPR	
R	J415W-S,M,L	Aerotech	54 x 314	1232	697	TRA	HPR	
H	J416-P	Contrail	54 x 922	1130	910cc	TRA	HPR	
R	J420CL-15A	Cesaroni	38 x 500	1007.8	479.6	CAR	HPR	

R	J420R-S,M,L	Aerotech	38 x 337	658	345	TRA	HPR	
S	J425R-14A	Aerotech	38 x 356	675.51	359	TRA	HPR	
S	J425R-14A	Aerotech	38 x 356	680.33	631	TRA	HPR	
R	J425BS-16A	Cesaroni	38 x 419	78309	406	TRA	HPR	
R	J430WT-18A	Cesaroni	54 x 236	821.1	384	CAR	HPR	
S	J435WS-P	Aerotech	38 x 356.5	774.1	352	TRA	HPR	
R	<a href="#">J440BB-20</a>	Animal	38 x 370	653	313.1	NAR	NAR	
R	J440BB-P	Animal	54 x 326	1109	528.4	CAR	HPR	
R	J449BS-15A	Cesaroni	54 x 320	1260.5	624	TRA	HPR	
R	<a href="#">J450ST-P</a>	Animal	54 x 326	1070	533.1	NAR	HPR	
<b>R!</b>	<b>J450BL-P</b>	<b>Gorilla</b>	<b>54 x 402</b>	<b>1121</b>	<b>658</b>	<b>TRA</b>	<b>HPR</b>	
R	J453WH-16A	Cesaroni	38 x 500	1012.6	585.5	CAR	HPR	
R	J460T-S,M,L	Aerotech	54 x 230	806	386	TRA	HPR	
S	J466SW-14A	Aerotech	38 x 356.5	774.1	352	TRA	HPR	
R	J475BB-P	Animal	54 x 403	1233.4	704.5	CAR	HPR	
R	J475-P	Cesaroni	54 x 326	1024.9	723	CAR	HPR	
R	<a href="#">J480BB-P</a>	Animal	54 x 326	1165	556	NAR	HPR	
R	J485WC-PS	Gorilla	54 x 326	1059.7	552	TRA	HPR	
R	J500ST-20A	Animal	38 x 370	660	327	TRA	HPR	
R	J500G-S,M,L	Aerotech	38 x 344	693.35	375	TRA	HPR	
R	J510WL-L	Aerotech	38 x 584	1162.36	662	TRA	HPR	
R	J520W-13A	Aerotech	38 x 480	671.3	381	TRA	HPR	
<b>R!</b>	<b>J520SK-16A</b>	<b>Cesaroni</b>	<b>38 x 510</b>	<b>658</b>	<b>498</b>	<b>TRA</b>	<b>HPR</b>	
R	J520W-P	Aerotech	38 x 1080	730.6	381	TRA	HPR	
R	J520F-S,M,L	Aerotech	38 x 368	645.93	327	TRA	HPR	
R	J525LW-P-SM	Loki	54 x 330	1112.5	625	TRA	HPR	
R	J528LW-17A	Loki	38 x 419	741	374	TRA	HPR	
R	J530IM-15A	Cesaroni	38 x 500	1115.5	576.5	CAR	HPR	
R	J535BT-P	Gorilla	54 x 327	1113.799	590	TRA	HPR	
R	J540R-S,M,L,P	Aerotech	54 x 314	1161	679	TRA	HPR	
H	J555-P	Contrail	38 x 1220	795	735cc	TRA	HPR	
R	J570W-S,M,L	Aerotech	38 x 479	973	535.8	TRA	HPR	
R	J575FJ-S,M,L	Aerotech	38 x 479	805	519	TRA	HPR	
R	J580SS-17A	Cesaroni	38 x 510	896.3	550	TRA	HPR	
R	J595BS-16A	Cesaroni	38 x 510	985	510	TRA	HPR	
R	J600RL-16A	Cesaroni	38 x 510	998.6	688	TRA	HPR	
R	J605F-L	Kosdon/AT	38 x 476	737	367	TRA	HPR	
R	J607WC-18A	Gorilla	38 x	677.94	360	TRA	HPR	
H	J642-P	Contrail	54 x 922	1092.6	910cc	TRA	HPR	
R	J712LB-15A	Loki	38 x 406	751.9	372	TRA	HPR	
R	J745-P	Cesaroni	54 x 326	1196.4	549	CAR	HPR	
R	J750SP-16A	Loki	38 x 622	942	617	TRA	HPR	
R	J760WT-19A	Cesaroni	54 x 329	1265.7	576	CAR	HPR	
H	J800-P	Contrail	38 x 1227	928	685cc	TRA	HPR	
R	J800T-S,M,L,XL	Aerotech	54 x 314	1295	619.4	TRA	HPR	
R	J825R-M	Aerotech	38 x 479	970	497	TRA	HPR	
R	J1026CT-14A	Loki	38 x 625	1266.86	616	TRA	HPR	
R	J1055-17A	Cesaroni	54 x 236	746.6	358	CAR	HPR	
R	J1299N-P	Aerotech	54 x 230	845	371.6	TRA	HPR	



R	J1365-P	Cesaroni	54 x 326	932.4	444	CAR	HPR
R	J1423N-P	Aerotech	54 x 230	845	371.6	TRA	HPR
R	J1520-17A	Cesaroni	54 x 329	1092.5	1026	CAR	HPR
R	J1799N-PS	Aerotech	54 x 314	1066.11	540	TRA	HPR
R	J2135N-P	Aerotech	54 x 314	1261	557.4	TRA	HPR

Tip Tanımı	Üretici	Boyutları (mm)	İtici kuvvet (N-san)	İtici yakıt Ağırlığı (g)	Test Kurumu	Yarışma Onaylı	Yarışma Kullanım Sonu
R	K160CL-6	Cesaroni	54 x 404	1525.5	772	CAR	HPR
R	K185W-S,M,L	Aerotech	54 x 437	1417.2	836.8	TRA	HPR
R	K222WC-P	Gorilla	54 x 402	1315	800	TRA	HPR
H	K234-P	Conrail	54 x 1220	1657	1490cc	TRA	HPR
R	K235WC-P	Gorilla	75 x 368	2049	1189	TRA	HPR
H	K240(835CC125J)-P	Hypertek	81 x 552	1292	835cc	TRA	HPR
H	K240H-P	RATTworks	64 x 908	1844.7	1507cc	TRA	HPR
S	K250W-P	Aerotech	54 x 673	2484	1543	TRA	HPR
S	K250W (LMS)-P	Aerotech	54 x 649	2342	1400	TRA	HPR
R	K250LWM-P-SM	Loki	54 x 499	1607	938	TRA	HPR
H	K257G-P	SkyRipper	54 x 912	1733	1130cc	TRA	HPR
R	K260CL-P	Cesaroni	54 x 572	2285.1	1149.3	CAR	HPR
R	K261WH/LB-P	Cesaroni	54 x 488	2020.9	1151.9	CAR	HPR
H	K265SP-P	Conrail	54 x 1219	1684	1490cc	TRA	HPR
R	K270W-S,M,L,XL	Aerotech	54 x 579	1968	1188	TRA	HPR
R	K300CL-P	Cesaroni	54 x 649	2546	1265.7	CAR	HPR
H	K300-P	Conrail	75 x 1016	1909	2050cc	TRA	HPR
H	K321-P	Conrail	54 x 1220	1570	1490cc	TRA	HPR
R	K327WC-P	Gorilla	54 x 491	1616	1000	TRA	HPR
H	K347B-P	SkyRipper	54 x 912	1529	1130cc	TRA	HPR
T	K350TR-P	RATTworks	64 x 914	1861	1170cc/250ml	TRA	HPR
R	K350LWM-P-SM	Loki	54 x 736	2374	1400	TRA	HPR
R	K360WH-13A	Cesaroni	54 x 329	1280.9	708.2	CAR	HPR
R	<a href="#">K365RR</a> -P	Animal	75 x 244	1675	946	NAR	HPR
R	K375WP-P	Aerotech	54 x 570	2228.14	1292	TRA	HPR
R	K400GR-14A	Cesaroni	54 x 404	1596.7	924.3	CAR	HPR
R	K400S-S,M,L	Kosdon/AT	54 x 403	1386.2	721.8	TRA	HPR
H	K404-P	Conrail	75 x 1016	2441	2050cc	TRA	HPR
<b>R!</b>	<b>K411BL-PS</b>	<b>Gorilla</b>	<b>75 x 368</b>	<b>1785.75</b>	<b>1132</b>	<b>TRA</b>	<b>HPR</b>
R	K445-17A	Cesaroni	54 x 404	1636.3	792	CAR	HPR
R	<a href="#">K450BB</a> -P-SM	Animal	75 x 244	1845	881.6	NAR	HPR
<b>R!</b>	<b>K454SK-19A</b>	<b>Cesaroni</b>	<b>54 x 404</b>	<b>1363.7</b>	<b>769.2</b>	<b>CAR</b>	<b>HPR</b>
R	K455-P	Cesaroni	54 x 403	1483	716	CAR	HPR
H	K456-P	Conrail	75 x 813	1628	1400cc	TRA	HPR
R	K458W-P	Aerotech	98 x 275	2464.6	1425	TRA	HPR
H	K460-P	WCH	75 x 762	1988	1493cc	CAR	HPR
<b>R!</b>	<b>K465DM-14A</b>	<b>Aerotech</b>	<b>54 x 401</b>	<b>1281</b>	<b>866</b>	<b>TRA</b>	<b>HPR</b>
R	K470ST-P	Animal	75 x 302	1679	826	TRA	HPR
R	<a href="#">K475WW</a> -P	Animal	54 x 403	1400	728.6	NAR	HPR
R	K480W-PS	Aerotech	54 x 570	2273.26	1318	TRA	HPR
R	K490GR-16A	Cesaroni	54 x 488	1978.4	1155.4	CAR	HPR



R	K500-18A	Cesaroni	54 x 404	1595.6	892	CAR	HPR
R!	<a href="#">K500SK-P</a>	Animal	75 x 368	1811	1123.5	NAR	HPR
H	K500SP-P	Contrail	54 x 1524	2237	N/A	TRA	HPR
R	K510-P	Cesaroni	75 x 350	2486	1197	CAR	HPR
R	K513FJ-S,M,L,XL	Aerotech	54 x 410	1496.3	974	TRA	HPR
R!	<a href="#">K515SK-16A</a>	Cesaroni	38 x 500	1653.9	961.5	CAR	HPR
R	K520WH-17A	Cesaroni	54 x 404	1710.5	944	CAR	HPR
R	K520RT-P	Gorilla	N/A x N/A	1356	698	TRA	HPR
H	K525WS-P	Contrail	54 x 1219	1620	N/A	TRA	HPR
R	K530SS-16A	Cesaroni	54 x 404	1412	1025	CAR	HPR
R	<a href="#">K530GG-P</a>	Animal	54 x 403	1410	796.7	NAR	HPR
R!	<a href="#">K533BL-P</a>	Gorilla	54 x 491	1420	900	TRA	HPR
S	K535W-14A	Aerotech	54 x 358	1421.535	1264	TRA	HPR
S	K535W-14A	Aerotech	54 x 358	1414.766	770	TRA	HPR
R	K535-P	Cesaroni	54 x 403	1441.8	764	CAR	HPR
R!	<a href="#">K540M-14A</a>	Aerotech	54 x 401	1596.3	876.7	TRA	HPR
H	K543BS-P	Contrail	76 x 813	2096	1450cc	TRA	HPR
R	K550W-S,M,L,XL	Aerotech	54 x 410	1568	889.1	TRA	HPR
R!	<a href="#">K555SK-P</a>	Animal	54 x 492	1300	862	NAR	HPR
R	K555WH-P	Cesaroni	75 x 350	2406.2	1407	CAR	HPR
H	K555BG-P	Contrail	54 x 1220	1687	1490cc	TRA	HPR
R	<a href="#">K560RR-P</a>	Animal	54 x 430	1480	750	NAR	HPR
R	K560W-P-SM	Aerotech	75 x 396	2511	1425	TRA	HPR
R	K570-17A	Cesaroni	54 x 488	2062.9	990	CAR	HPR
R	<a href="#">K570WW-P</a>	Animal	54 x 492	1700	914.6	NAR	HPR
R	K575SS-P	Cesaroni	75 x 395	2493	1803	CAR	HPR
R	K590-P	Cesaroni	54 x 403	1336.5	964	CAR	HPR
R	K600WH-17A	Cesaroni	54 x 488	2129.8	1180	CAR	HPR
T	K600TR-P	RATTworks	64 x 1219	2170	1476cc/370ml	TRA	HPR
R	<a href="#">K600WW-P-SM</a>	Animal	75 x 368	2500	1223.3	NAR	HPR
R	K600F-S,M,L,P	Kosdon/AT	54 x 403	1428.5	724.3	TRA	HPR
R	<a href="#">K605RR-P</a>	Animal	75 x 368	2410	1231	NAR	HPR
R!	<a href="#">K610SK-P</a>	Animal	54 x 491	1531	861	CAR	HPR
R	K627LR-5,7,11,14	Loki	38 x 1200	1518.691	688	TRA	HPR
R	K630BS-15A	Cesaroni	54 x 404	1679.4	912	TRA	HPR
H	K630-P	Contrail	75 x 813	1341	1400cc	TRA	HPR
R	K630WC-PS	Gorilla	54 x 403	1414.8	736	TRA	HPR
R	K635-17A	Cesaroni	54 x 488	1994.4	1115	CAR	HPR
R	K650SS-16A	Cesaroni	54 x 488	1749.5	1281	CAR	HPR
R	K650PK-21A	Cesaroni	54 x 488	1997.1	1135	CAR	HPR
R	K650T-P	Aerotech	98 x 289	2405.7	1280	TRA	HPR
R	<a href="#">K650RR-P</a>	Animal	54 x 492	1840	931	NAR	HPR
H	K654BS-P	Contrail	75 x 711	2132	1400cc	TRA	HPR
R	K660-17A	Cesaroni	54 x 572	2437	1177	CAR	HPR
R	K661BS-P	Cesaroni	75 x 350	2430.4	1182	CAR	HPR
R	K665-P	Cesaroni	54 x 403	1379.9	964	CAR	HPR
R	<a href="#">K670GG-P</a>	Animal	54 x 492	1751	1014	NAR	HPR
R	K670-P	Cesaroni	54 x 491	1806.1	955	CAR	HPR
R	K670WC-PS	Gorilla	75 x 368	2364.72	1184	TRA	HPR

R!	K675SK-18A	Cesaroni	54 x 572	2009.6	1140	CAR	HPR	
H	K678-P	Contrail	75 x 1016	1847	2050cc	TRA	HPR	
R	K680R-P	Aerotech	98 x 289	2358	1316	TRA	HPR	
R!	K690SF-PS	Loki	54 x 483	1616	920	TRA	HPR	
R	K695R-M,L,P	Aerotech	54 x 410	1514	903	TRA	HPR	
R	K695BT-P	Gorilla	54 x 403	1463.04	681	TRA	HPR	
R	K700W-P	Aerotech	54 x 568	2261	1303	TRA	HPR	
R	<a href="#">K700BB</a> -P	Animal	54 x 430	1650	745	NAR	HPR	
R	K700-P	Cesaroni	54 x 491	1659.6	1205	CAR	HPR	
R	K700RT-P	Gorilla	54 x 492	1691	856	TRA	HPR	
H	K707-P	Contrail	75 x 813	1386	1400cc	TRA	HPR	
R	K710BB-P	Animal	54 x 491	1791.4	880.7	CAR	HPR	
R	K711WH-18A	Cesaroni	54 x 572	2377.2	1398	CAR	HPR	
R!	K735SK-P	Cesaroni	75 x 350	1955.2	1173	CAR	HPR	
R	K740CS-18A	Cesaroni	54 x 404	1873.9	846.2	CAR	HPR	
R	K750-18A	Cesaroni	54 x 572	2352.5	1321	CAR	HPR	
R(a)	<a href="#">K750W</a> -P	Kosdon/AT	54 x 728	2468	1315	NAR	HPR	
R	K763GT-P	Gorilla	54 x 491	1740.27	975	TRA	HPR	
H	K777-P	Contrail	75 x 1017	1833	2050cc	TRA	HPR	
R	K780BS-15A	Cesaroni	54 x 488	2107.8	1140	TRA	HPR	
R	K780R-P	Aerotech	75 x 395	2371	1268	TRA	HPR	
R	<a href="#">K800BB</a> -P	Animal	54 x 492	1950	914	NAR	HPR	
R	K805G-P	Aerotech	54 x 401	1762	871.1	TRA	HPR	
R	K805WC-PS	Gorilla	54 x 492	1765	920	TRA	HPR	
R!	K815SK-P	Cesaroni	54 x 649	2303.7	1342.1	CAR	HPR	
R	K820BS-17A	Cesaroni	54 x 572	2383	1164	CAR	HPR	
R	K828BT-P	Gorilla	54 x 492	1786.141	966	TRA	HPR	
R	K828FJ-S,M,L,XL	Aerotech	54 x 579	2052.15	1450	TRA	HPR	
R!	K830SF-PS	Loki	54 x 726	2287	1376	TRA	HPR	
R	K850DM-16A	Aerotech	54 x 549	1863.13	1224	TRA	HPR	
R	K855-P	Cesaroni	54 x 491	1725.2	1205	CAR	HPR	
H	K888BM-P	Contrail	76 x 1016	2400	2050cc	TRA	HPR	
R	K940WT-18A	Cesaroni	54 x 404	1632.7	768	CAR	HPR	
R	<a href="#">K950ST</a> -P	Animal	54 x 492	1860	887.4	NAR	HPR	
R	K960LWB-P-SM	Loki	54 x 499	1946	960	TRA	HPR	
R	<a href="#">K975WW</a> -P-SM	Animal	54 x 728	2450	1357.3	NAR	HPR	
S	<a href="#">K990DM</a> -14A	Aerotech	54 x 610	1867.13	1224	NAR	HPR	
R	K1000S-P	Kosdon/AT	54 x 728	2592.7	1301	TRA	HPR	
R!	<a href="#">K1000SK</a> -P-SM	Animal	54 x 728	2120	1297	NAR	HPR	
S	K1050W-P	Aerotech	54 x 676	2530	1362.2	TRA	HPR	
R	K1050W-PS	Aerotech	54 x 648	2426	2240	TRA	HPR	
R	<a href="#">K1075GG</a> -P	Animal	54 x 728	2400	1399.9	NAR	HPR	
R!	K1075SK-P	Cesaroni	54 x 728	2245.1	1259	CAR	HPR	
R	K1085WT-P	Cesaroni	75 x 350	1125	2412	CAR	HPR	
R	K1100T-S,M,L,XL	Aerotech	54 x 398	1472	771	TRA	HPR	
R	K1103X-14A	Aerotech	54 x 401	1789.5	830	TRA	HPR	
R	K1127LB-14A	Loki	38 x 625	1284.61	624	TRA	HPR	
R	K1130BB-P	Animal	54 x 728	2550.7	1334	CAR	HPR	
R	K1185GT-P	Gorilla	54 x 728	2460	1314	TRA	HPR	31/12/2014

R	K1200-16A	Cesaroni	54 x 488	2014	960	CAR	HPR
R	K1250WW-P	Animal	54 x 491	1950.9	915	CAR	HPR
R	K1275R-P	Aerotech	54 x 568	2224.9	1170	TRA	HPR
R	K1440-17A	Cesaroni	54 x 572	2437	1129	CAR	HPR
R	K1499N-P	Aerotech	75 x 260	1321	604	TRA	HPR
R	K1620-P	Cesaroni	98 x 240	2436.9	1193	CAR	HPR
R	K1720-P	Cesaroni	54 x 403	1176.2	592	CAR	HPR
R(a)	<a href="#">K1750R-P</a>	Kosdon/AT	54 x 728	2423	1253	NAR	HPR
R	K1999N-P	Aerotech	98 x 275	2569	1195	TRA	HPR
R	K2000VM-P	Cesaroni	75 x 350	2329.9	1102	CAR	HPR
R	K2045-17A	Cesaroni	54 x 404	1407.6	716	CAR	HPR
R	K2050ST-PS	Aerotech	54 x 381	1384.74	674	TRA	HPR

Tip Tanımı	Üretici	Boyutları (mm)	İtici kuvvet (N-san)	İtici yakıt Ağırlığı (g)	Test Kurumu	Yarışma Onaylı	Yarışma Kullanım Sonu
H	L200(1685CC098L)-P	Hypertek	75 x 1031	2639	1685cc	TRA	HPR
H	L225FX(1685CC098LFX)-P	Hypertek	75 x 1031	2789	1685cc	TRA	HPR
R	L265MY-P	Cesaroni	54 x 649	2644.6	1603	CAR	HPR
R	L339N-P	Aerotech	98 x 302	2793	1796	TRA	HPR
H	L350(1685CC125L)-P	Hypertek	75 x 1031	3042.9	1685cc	TRA	HPR
H	L355FX(1685CC125LFX)-P	Hypertek	75 x 1031	2851	1685cc	TRA	HPR
H	L369-P	Conrail	75 x 1347	3829	3200cc	TRA	HPR
R	L395MY-P	Cesaroni	75 x 757	4936.8	3423	CAR	HPR
R	L400W-PS	Aerotech	98 x 444	4654.6	2696	TRA	HPR
R	L425WC-PS	Loki	76 x 498	3372	1837	TRA	HPR
H	L475(1685CC172L)-P	Hypertek	75 x 1031	2774	1685cc	TRA	HPR
R	L480LR-P	Loki	76 x 498	3203.4	1830	TRA	HPR
H	L535FX(1685CC172LFX)-P	Hypertek	75 x 1031	2994	1685cc	TRA	HPR
H	L540(2800CC172L)-P	Hypertek	75 x 1387	4615	2800cc	TRA	HPR
H	L550(1685CCRGL)-P	Hypertek	75 x 1031	3095	1685cc	TRA	HPR
H	L570FX(2800CC172LFX)-P	Hypertek	75 x 1387	4716	2800cc	TRA	HPR
H	L575(2800CCRGL)-P	Hypertek	75 x 1387	4831	2800cc	TRA	HPR
R	L585IM-P	Cesaroni	75 x 350	2653.4	1449.8	CAR	HPR
H	L600-P	RATTworks	64 x 1066	3152	1858cc	TRA	HPR
H	L600-P	WCH	75 x 1016	3161	2363cc	CAR	HPR
R	L610-P	Cesaroni	98 x 394	4842	2415	CAR	HPR
H	L610FX(1685CCRGLFX)-P	Hypertek	75 x 1031	3131	1682cc	TRA	HPR
H	L625FX(2800CCRGLFX)-P	Hypertek	75 x 1387	4951	2800cc	TRA	HPR
R	L640DT-P	Cesaroni	54 x 649	2772.2	1293	CAR	HPR
R	L645GR-P	Cesaroni	75 x 486	3419.8	2072	CAR	HPR
R!	<a href="#">L666SK-P</a>	Animal	75 x 870	2700	1646.7	NAR	HPR
R	<a href="#">L700BB-P-SM</a>	Animal	75 x 368	2590	1193.9	NAR	HPR
R	L730-P	Cesaroni	54 x 649	2765	1351	CAR	HPR
H	L740FX(2800CC200MFX)-P	Hypertek	75 x 1438	5033	2800cc	TRA	HPR
R	<a href="#">L777WW-P-SM</a>	Animal	75 x 497	3140	1762.3	NAR	HPR
R!	<a href="#">L780SF-PS</a>	Loki	76 x 498	3006	1772	TRA	HPR
R	L789RT-PS	Gorilla	75 x 498	3251.78	1796	TRA	HPR
R	L800-P	Cesaroni	75 x 486	3759	1795	CAR	HPR
H	L800-P	Conrail	75 x 1372	3759	3200cc	TRA	HPR

R	L805WH-P	Cesaroni	54 x 649	2833	1640	CAR	HPR	
R!	L820SK-P	Cesaroni	75 x 486	2945.6	1760	CAR	HPR	
R	L840CT-P	Loki	78 x 499	3889.93	2074	TRA	HPR	
R	L850W-P	Aerotech	75 x 531	3642	2075	TRA	HPR	
R	L851WH-P	Cesaroni	75 x 486	3683.2	2110	CAR	HPR	
S	L875DM-PS	Aerotech	54 x 653	3887.4	2608	TRA	HPR	
R	L890SS-P	Cesaroni	75 x 530	3762	2670	CAR	HPR	
R	<a href="#">L900RR</a> -P	Animal	75 x 497	3450	1771	NAR	HPR	
R!	L900DM-PS	Aerotech	75 x 653	3787	2594	TRA	HPR	
R	L910CS-P	Cesaroni	75 x 350	2856.1	1270	CAR	HPR	
R	L930LWB-P-SM	Loki	75 x 499	3587	1836	TRA	HPR	
R	L935IM-P	Cesaroni	54 x 649	3146.8	1567	CAR	HPR	
R	L952W-P-SM	Aerotech	98 x 427	4656	2749.7	TRA	HPR	
H	L970(2800CC300M)-P	Hypertek	75 x 1438	5098	2800cc	TRA	HPR	
R	L985-P	Cesaroni	54 x 728	2664.6	1295	CAR	HPR	
R	L985GT-PS	Gorilla	75 x 497.84	3580	1875	TRA	HPR	31/12/2014
R	L990BS-P	Cesaroni	24 x 649	2771	1369.4	CAR	HPR	
R	L995RL-P	Cesaroni	75 x 486	3618	1912.5	CAR	HPR	
S	L1000W-18A	Aerotech	54 x 635	2666.327	1484	TRA	HPR	
R	L1000S-P	Kosdon/AT	54 x 728	2592	1301	TRA	HPR	
R	L1030-P	Cesaroni	54 x 649	2787.9	1516	CAR	HPR	
R!	L1040DM-PS	Aerotech	75 x 653	3769	2602	TRA	HPR	
R	L1040R-PS	Loki	54 x 727	3707.7	1746	TRA	HPR	
R	L1050BS-P	Cesaroni	75 x 786	3727	1774	CAR	HPR	
R	<a href="#">L1060GG</a> -P-SM	Animal	75 x 497	3622.6	1917.8	NAR	HPR	
R!	L1065BL-BS	Gorilla	75 x 787	4209.66	5329	TRA	HPR	
R	<a href="#">L1080BB</a> -P	Animal	75 x 497	3700	1717	NAR	HPR	
R	L1090SS-P	Cesaroni	75 x 665	4815	3490.3	CAR	HPR	
R	L1090W-PS	Aerotech	54 x 623	2671.28	1468	TRA	HPR	
R	<a href="#">L1100RR</a> -P-SM	Animal	54 x 728	2576	1346	NAR	HPR	
R	L1111ST-P	Animal	75 x 497	3480	1642	TRA	HPR	
R	L1115-P	Cesaroni	75 x 621	5015	2394	CAR	HPR	
R	L1150R-P	Aerotech	75 x 530	3517	1902	TRA	HPR	
R	L1150WC-PS	Gorilla	75 x 498	3575.7	1974	TRA	HPR	
R	L1170FJ-PS	Aerotech	75 x 665	4229	2805	TRA	HPR	
H!	L1222SF-P	Contraail	75 x 1524	3895	3200cc	TRA	HPR	
R	L1276RR-PS	Animal	54 x 728	2729	1475	TRA	HPR	
R!	L1290SK-P	Cesaroni	76 x 785	4701.1	2705	CAR	HPR	
R	L1300R-P	Aerotech	98 x 443	4567	2632	TRA	HPR	
R	<a href="#">L1300BB</a> -P-SM	Animal	54 x 728	2672	1314	NAR	HPR	
R	L1350CS-P	Cesaroni	75 x 486	463.1	1905	CAR	HPR	
R	L1355SP-P	Cesaroni	75 x 621	4025.5	3012.4	CAR	HPR	
R	L1390G-PS	Aerotech	78 x 531	3948.7	4104	TRA	HPR	
R	L1395-P	Cesaroni	75 x 621	4895.4	2364.9	CAR	HPR	
R!	<a href="#">L1400SK</a> -P	Animal	75 x 785	4744	2829.4	NAR	HPR	
R	L1400F-P	Kosdon/AT	54 x 728	2640	1248	TRA	HPR	
R	L1400LW-P-SM	Loki	54 x 736	2850.6	1400	TRA	HPR	
R!	L1400M-PS	Aerotech	75 x 653	4900.9	2648	TRA	HPR	
R!	L1410SK-P	Cesaroni	75 x 757	4828.3	2875	CAR	HPR	

R	L1420R-P	Aerotech	75 x 443	4603	2560	TRA	HPR	
H!	L1428SF-P	Contrail	76 x 1753	4733	3200cc	TRA	HPR	
R	L1482LB-P-SM	Loki	54 x 497	3882	1839	TRA	HPR	
R	L1500T-P	Aerotech	98 x 665	5089.3	2490.9	TRA	HPR	
R	L1520T-PS	Aerotech	75 x 518	3715.9	1854	TRA	HPR	
R	L1685SS-P	Cesaroni	75 x 757	5069.3	3773.1	CAR	HPR	
R	L1720WT-P	Cesaroni	75 x 486	1688	2660	CAR	HPR	
R	L2050LW-PS	Loki	54 x 1041	4802.43	2388	TRA	HPR	
R	L2200G-P	Aerotech	75 x 653	5104	2518	TRA	HPR	
R	L2300G-P	Aerotech	54 x 728	2756	1310	TRA	HPR	31/12/2018
R	L2375WT-P	Cesaroni	75 x 621	2225	4864	CAR	HPR	
R	L2500ST-P	Aerotech	98 x 5120	4679	2313	TRA	HPR	
H	L2525GF-P	Contrail	75 x 1524	4681.4	3200cc	TRA	HPR	
R	L3150-P	Cesaroni	98 x 394	4807.8	2386	CAR	HPR	
R	L3200-P	Cesaroni	75 x 486	3300.3	1555	CAR	HPR	
S	L11000W-18A	Aerotech	54 x 635	2684.4	2194	TRA	HPR	

Tip	Tanımlı	Üretici	Boyutları (mm)	İtici kuvvet (N-san)	İtici yakıt Ağırlığı (g)	Test Kurumu	Yarışma Onaylı	Yarışma Kullanım Sonu
R	M520-P	Cesaroni	98 x 548	7278.5	3713	CAR	HPR	
R	<a href="#">M650W</a> -P	Aerotech	75 x 801	5964	3351	NAR	HPR	
R	M685W-PS	Aerotech	75 x 911	7560.8	4320	TRA	HPR	
H	M700-P	WCH	75 x 1473	5592	3951cc	CAR	HPR	
H	M711BS-P	Contrail	75 x 1371	5507	3200cc	TRA	HPR	
H	M740(2800CC200M)-P	Hypertek	75 x 1438	5143	2800cc	TRA	HPR	
R	M745WC-PS	Gorilla	75 x 785	5368	2900	TRA	HPR	
R	<a href="#">M750W</a> -P	Aerotech	98 x 732	9325	5300	NAR	HPR	
R	M795-P	Cesaroni	98 x 702	10133	4892	CAR	HPR	
R	M840WH/LB-P	Cesaroni	75 x 879.3	7521.2	4249	CAR	HPR	
R	M900-P	Loki	76 x 785	5332.4	3030	TRA	HPR	
H	M900-P	RATTworks	69 x 1828	6463.5	3716cc	TRA	HPR	
H	M956(3500CCRGM)-P	Hypertek	98 x 1166	6421	3500cc	TRA	HPR	
H	M960FX(2800CC300MFX)-P	Hypertek	75 x 1438	5126	2800cc	TRA	HPR	
H	M1000(4630CCRGM)-P	Hypertek	98 x 1405	9155	4630cc	TRA	HPR	
H	M1001(5478CCRGM)-P	Hypertek	98 x 1438	9835	5478cc	TRA	HPR	
H	M1010FX(4630CCRGMFX)-P	Hypertek	98 x 1405	9114	4630cc	TRA	HPR	
H	M1015FX(3500CCRGMFX)-P	Hypertek	98 x 1166	6334	3500cc	TRA	HPR	
R	M1025WC-P	Gorilla	98 x 870	9581	5329	TRA	HPR	
H	M1040FX(4630CCRGMFX)-P	Hypertek	98 x 1438	10098	4638cc	TRA	HPR	
R	M1060-P	Cesaroni	98 x 548	7441	3622	CAR	HPR	
R!	M1075DM-PS	Aerotech	98 x 649	5571	3846	TRA	HPR	
R	M1085WC-PS	Gorilla	75 x 1039	6958	3932	TRA	HPR	
R	M1101WH-P	Cesaroni	75 x 621	5197.6	2993	CAR	HPR	
R	M1160GR-P	Cesaroni	75 x 757	5880.2	3454	CAR	HPR	
R!	M1200SF-PS	Loki	76 x 785	5122.6	2968	TRA	HPR	
R	M1230IM-P	Cesaroni	75 x 621	5506.5	2900	CAR	HPR	
R	M1290WH-P	Cesaroni	98 x 548	7649.3	4295	CAR	HPR	
R	M1297W-P	Aerotech	75 x 665	5416.6	2722	TRA	HPR	
R	M1300IM-P	Cesaroni	75 x 757	6438.2	3437	CAR	HPR	

R!	M1305M-PS	Aerotech	98 x 649	6891	4080	TRA	HPR	
R	M1315W-P	Aerotech	75 x 801	6713.5	3499.4	TRA	HPR	
S	M1340W-PS	Aerotech	98 x 556	7368.911	2585	TRA	HPR	
R	<a href="#">M1350WW</a> -P-SM	Animal	75 x 785	5725	2927.3	NAR	HPR	
S	M1350W-PS	Aerotech	75 x 622	5178.154	4808	TRA	HPR	
R	M1355RT-PS	Gorilla	75 x 787	5164.65	5216	TRA	HPR	
R	M1400-P	Cesaroni	75 x 757	6251	2992	CAR	HPR	
R	M1401WH-P	Cesaroni	75 x 757	6268.3	3508	CAR	HPR	
R	M1419W-P	Aerotech	98 x 579	7755.5	4077	TRA	HPR	
R	M1450-P	Cesaroni	98 x 702	9955	4830	CAR	HPR	
R(a)	<a href="#">M1450W</a> -P	Kosdon/AT	75 x 1039	7813	4150	NAR	HPR	
R	<a href="#">M1480RR</a> -P-SM	Animal	75 x 785	5800	3000	NAR	HPR	
H	M1491BM-P	Contrail	76 x 1372	5675.6	3200cc	TRA	HPR	
R	M1500G-P	Aerotech	75 x 653	5220	2631	TRA	HPR	
R	M1520BS-P	Cesaroni	98 x 548	7579	3602	CAR	HPR	
R	M1540IM-P	Cesaroni	75 x 757	6819.4	3624.4	CAR	HPR	
R	M1545GR-P	Cesaroni	75 x 1025	8186.7	4835	CAR	HPR	
R	M1550R-P	Aerotech	75 x 801	5600	3170	TRA	HPR	
R	M1560WT-P	Cesaroni	98 x 394	5342	2452	CAR	HPR	
R!	M1565BL-P	Gorilla	98 x 870	7533	4992	TRA	HPR	
H	M1575-P	Contrail	98 x 1524	6547	5300cc	TRA	HPR	
R	M1590CL-P	Cesaroni	75 x 893	7544.6	3590	CAR	HPR	
R	M1600R-P	Aerotech	98 x 579	7084	4026	TRA	HPR	
R!	M1610BL-PS	Gorilla	75 x 1039	5973.52	3654	TRA	HPR	
R	M1630TT-P	Cesaroni	75 x 1039	8212.1	3948	CAR	HPR	
R	M1665WC-PS	Gorilla	75 x 787	5705.01	5579	TRA	HPR	
R	M1670BS-P	Cesaroni	75 x 757	6041.7	2956.1	CAR	HPR	
R	M1675PK-P	Cesaroni	75 x 757	6162	3019	CAR	HPR	
R!	<a href="#">M1730SK</a> -P	Animal	98 x 870	8115	4945.2	NAR	HPR	
R!	M1770SK-P	Cesaroni	75 x 893	5933.4	3520	CAR	HPR	
R	M1780NT-PS	Aerotech	75 x 653	5783	2560	TRA	HPR	
R!	M1790SK-P	Cesaroni	98 x 702	8088.9	4706	CAR	HPR	
R	M1800FJ-P	Aerotech	98 x 665	8200	9163	TRA	HPR	
R	M1800BS-P	Cesaroni	98 x 702	9867.7	4802	CAR	HPR	
R	M1810RL-P	Cesaroni	75 x 757	6132	3196	CAR	HPR	
R	M1830CS-P	Cesaroni	75 x 621	5603.7	2542	CAR	HPR	
R	M1845NT-PS	Aerotech	98 x 597.9	8307.79	3772	TRA	HPR	
R	M1850W-P	Aerotech	75 x 924	7680	4009	TRA	HPR	
R	M1850GG-P	Animal	75 x 781	5920	3375	TRA	HPR	
R	M1882LW-PS	Loki	76 x 787	6303	3130	TRA	HPR	
R	M1890-P	Cesaroni	98 x 702	9875.6	5280	CAR	HPR	
R	<a href="#">M1900BB</a> -P	Animal	75 x 785	6100	2733	NAR	HPR	
R	M1939W-P	Aerotech	98 x 732	10482	5719.1	TRA	HPR	
R	M1969SF-PS	Loki	76 x 1038	7295.78	4266	TRA	HPR	
R	M2000R-P	Aerotech	98 x 732	9218	5368	TRA	HPR	
R	M2020IM-P	Cesaroni	75 x 757	8429.4	4349	CAR	HPR	
R	M2045BS-P	Cesaroni	75 x 893	7388	3547	CAR	HPR	
R!	M2050SK-P	Cesaroni	76 x 1039	6744.6	3870	CAR	HPR	
R	M2075SS-P	Cesaroni	75 x 893	6286.6	3982	CAR	HPR	



R!	M2080SK-P	Cesaroni	75 x 1025	6827.3	4107	CAR	HPR	
R	M2100G-P	Aerotech	98 x 598	7802	3948	TRA	HPR	
R	M2150RL-P	Cesaroni	75 x 893	7455.4	3835	CAR	HPR	
R!	M2200SK-P-SM	Animal	75 x 1039	6350	3766	NAR	HPR	
R	M2245-P	Cesaroni	75 x 1025	9976.7	5074	CAR	HPR	
R	M2250CS-P	Cesaroni	75 x 621	5472.2	2489	CAR	HPR	
H	M2281BF-P	Conrail	75 x 1524	5481	5300cc	TRA	HPR	
R	M2400T-P	Aerotech	98 x 597	7717	3692.6	TRA	HPR	
R	M2500T-P	Aerotech	98 x 751	9671	4711.2	TRA	HPR	
R	M2500GG-P-SM	Animal	75 x 1039	7800	4248	NAR	HPR	
R	M2505-P	Cesaroni	98 x 579	7450	3339	CAR	HPR	
R	M2550LB-P-SM	Loki	76 x 785	6502	3065	TRA	HPR	
H	M2700BS-P	Conrail	98 x 1524	6034	5300cc	TRA	HPR	
H	M2800BG-P	Conrail	98 x 1524	6060	5300cc	TRA	HPR	
R(a)	M2900R-P	Kosdon/AT	75 x 1039	7310	3755	NAR	HPR	
R	M2925WC-PS	Gorilla	75 x 1039	7897.8	3820	TRA	HPR	
R	M3000ST-P	Animal	75 x 1039	7367	3819	TRA	HPR	
R	M3000LW-PS	Loki	76 x 1039	8924.3	4350	TRA	HPR	
R	M3100WT-P	Cesaroni	75 x 757	6117.8	2903	CAR	HPR	
R	M3400WT-P	Cesaroni	98 x 702	9994.5	4452	CAR	HPR	
R	M3500R-P	Aerotech	75 x 1039	7310	3755	NAR	HPR	
R	M3700WT-P	Cesaroni	75 x 803	6800.3	3019	CAR	HPR	
R	M4500ST-P	Aerotech	98 x 7680	7277	3425	TRA	HPR	
R	M4770-P	Cesaroni	98 x 548	7312.4	379	CAR	HPR	

Tip	Tanımı	Üretici	Boyutları (mm)	İtici kuvvet (N-san)	İtici yakıt Ağırlığı (g)	Test Kurumu	Yarışma Onaylı	Yarışma Kullanım Sonu
R	N1000W-P	Aerotech	98 x 1046	14126	7925	NAR	HPR	
R	N1100-P	Cesaroni	98 x 1046	14005	6790	CAR	HPR	
R	N1560WH-P	Cesaroni	98 x 1239	16803	9946	CAR	HPR	
R	N1720WC-PS	Gorilla	98 x 1213	14236.77	7456	TRA	HPR	
R	N1800WH-P	Cesaroni	98 x 702	10366.9	5727	CAR	HPR	
R	N1975GR-P	Cesaroni	98 x 1010	14271.6	8560	CAR	HPR	
R	N2000W-P	Aerotech	98 x 1046	13347.1	7752.6	TRA	HPR	
R	N2020WW-P	Animal	98 x 870	10281	5160.9	NAR	HPR	
R	N2200PK-P	Cesaroni	98 x 1010	12066.4	6122	CAR	HPR	
R	N2500-P	Cesaroni	98 x 1010	13633	6778	CAR	HPR	
R	N2501WH-P	Cesaroni	98 x 1010	15227.2	8496	CAR	HPR	
R	N2540GR-P	Cesaroni	98 x 1239	17907	10700	CAR	HPR	
R	N2600GG-P	Animal	98 x 870	10607	5591.4	NAR	HPR	
R!	N2600SK-P	Cesaroni	98 x 1010	11077.3	6618	CAR	HPR	
R	N2700BB-P	Animal	98 x 870	11452	5147.1	NAR	HPR	
R	N2712WC-PS	Gorilla	98 x 870	10812.7	5286	TRA	HPR	
R	N2800WW-P	Animal	98 x 1213	14802	7694.7	NAR	HPR	
R	N2850BS-P	Cesaroni	98 x 1010	13766.9	6759	CAR	HPR	
R!	N2876SK-PS	Animal	98 x 122	11939.73	13675	TRA	HPR	
R	N2900CL-P	Cesaroni	98 x 1239	17613.7	8449	CAR	HPR	
R	N3180-p	Cesaroni	98 x 1010	14200.1	7460	CAR	HPR	



R	N3300R-PS	Aerotech	98 x	1059.46	14041.36	7512	TRA	HPR
R	N3301WH-P	Cesaroni	98 x	1239	19317.6	10658	CAR	HPR
<b>R!</b>	<b>N3400SK-P</b>	<b>Cesaroni</b>	<b>98 x</b>	<b>1239</b>	<b>14263.3</b>	<b>8282</b>	<b>CAR</b>	<b>HPR</b>
R	N3800BS-P	Cesaroni	98 x	1239	17631.7	8449	CAR	HPR
R	N3800LW-PS	Loki	102 x	1041	12490.28	6124	TRA	HPR
R	<a href="#">N4000BB-P</a>	Animal	98 x	1213	16,461	7565.7	NAR	HPR
R	N4100RL-P	Cesaroni	98 x	1239	17790.3	9101	CAR	HPR
R	N4800T-P	Aerotech	98 x	1201	19361	9570.8	TRA	HPR
R	N5600WT-P	Cesaroni	98 x	1010	13628.2	6363	CAR	HPR
R	N5800CS-P	Cesaroni	98 x	1239	20145.7	9021	CAR	HPR
R	N10000-P	Cesaroni	98 x	1010	10347	5200	CAR	HPR

Tip	Tanımı	Üretici	Boyutları (mm)	İtici kuvvet (N-san)	İtici yakıt Ağırlığı (g)	Test Kurumu	Yarışma Onaylı	Yarışma Kullanım Sonu
R	O2645BL-P	Gorilla	152 x 1206	24333	15149	TRA	HPR	
<b>R!</b>	<b>O3700SK-P</b>	<b>Cesaroni</b>	<b>161 x 957</b>	<b>29919.9</b>	<b>17157</b>	<b>CAR</b>	<b>HPR</b>	
R	O4900BS-P	Cesaroni	161 x 957	37148.5	17700	CAR	HPR	
R	O4925WC-P	Gorilla	152 x 1219	33005.07	16575	TRA	HPR	
R	O5100-P	Cesaroni	161 x 803	29990	13245	CAR	HPR	
R	O5800-P	Cesaroni	161 x 754	30605.7	13950	CAR	HPR	
H	O6300-P	Conrail	156 x 1829	27244	15000cc	TRA	HPR	
R	O8000-P	Cesaroni	161 x 957	40960	18610	CAR	HPR	
S	O25000VM-P	Cesaroni	132 x 1407	30795	14471	CAR	HPR	