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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE TRADEMARK TRIAL AND APPEAL BOARD

Proceeding no.	91227510		
Party	Defendant DJI GmbH		
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Signature	/B. Brett Heavner/		
Date	09/01/2022		
Attachments	2022-09-01 NOR 10 - 3rd Party Use of Phantom.pdf(153015 bytes) DJI154 part 1 DJI001393 - 1440.pdf(5513732 bytes) DJI001443 - 1465.pdf(5585441 bytes) DJI001500 - 1545.pdf(6054041 bytes) DJI001564 - 1605.pdf(5213045 bytes) DJI001609 - 1688.pdf(5342559 bytes) DJI001690 - 1737.pdf(5514266 bytes) DJI001739 - 1789.pdf(5201416 bytes) DJI001793 - 1829.pdf(4904938 bytes) DJI001831 - 1873.pdf(4879345 bytes) DJI001875 - 1919.pdf(5547604 bytes)		

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE TRADEMARK TRIAL AND APPEAL BOARD

VISION RESEARCH, INC.

v.

Opposition No. 91227510

Opposer/Counterclaim Defendant,

Application Serial No. 79/163070

| PHANTOM

DJI GMBH.

Applicant/Counterclaim Petitioner.

DJI GMBH'S NOTICE OF RELIANCE NO. 10 UNDER 37 CFR § 2.122(e)(2)

Pursuant to Trademark Rule 2.122(e)(2) and TBMP § 704.08(b), Applicant and Counterclaim Petitioner DJI GmbH submits of record in connection with this opposition proceeding Internet documents and Internet website printouts of third-party Internet materials under Trademark Rule 2.122(e). The website printouts identified in Applicant and Counterclaim Petitioner's Notices of Reliance show the URL and the date when each web page was printed.

These website printouts show widespread, third-party use of the term PHANTOM for goods and services, including cameras and camera-enabled devices. The exhibits identified in this Notice of Reliance are relevant to establish that Opposer's PHANTOM mark is weak and entitled to a narrow scope of protection.

Exhibit	Description and Relevance		
No.			
DJI154	Third-party internet materials. This exhibit is relevant to demonstrate the weakness of the term PHANTOM. This exhibit qualifies for admission under a notice of reliance as a printed publication across the following Bates Nos.: DJI001393 - 1440, DJI001443 - 1465, DJI001500 - 1545, DJI001564 - 1605, DJI001609 - 1688, DJI001690 - 1737, DJI001739 - 1789, DJI001793 - 1829, DJI001831 - 1873, DJI001875 - 1919, DJI001921 - 1970, DJI001972 - 1992, DJI002019 - 2066, DJI002071 - 2099, DJI002103 - 2113, DJI002116 - 2122,		
	DJI002124 - 2142, DJI002145, DJI002189 - 2234, DJI002237 - 2290, DJI002292 -		

Exhibit	Description and Relevance		
No.			
	2342, DJI002346 - 2348, DJI002357, DJI002389 - 2436, DJI002439 - 2480,		
	DJI002485 - 2530, DJI002534 - 2592, DJI002593 - 2645, DJI002646 - 2696,		
	DJI002701 - 2731, DJI002739 - 2769, DJI002778 - 2824, DJI002826 - 3910,		
	DJI004029 - 5664, DJI005683 - 5757		

Dated: September 1, 2022 Respectfully submitted,

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CERTIFICATE OF SERVICE

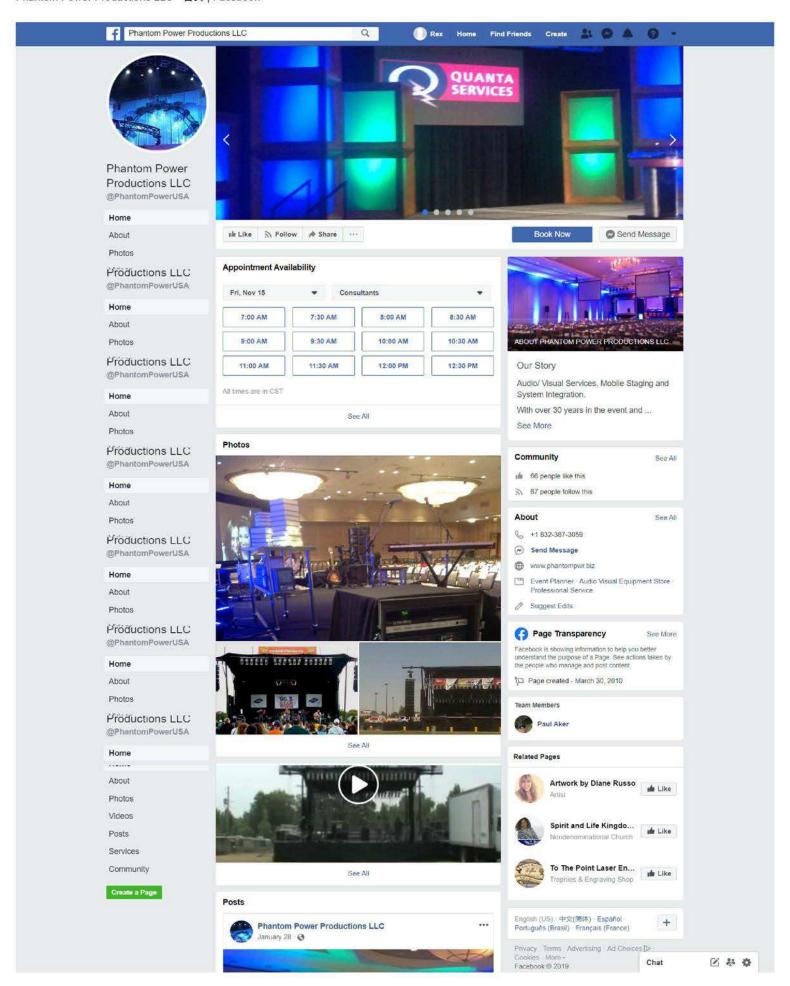
I hereby certify that a true and accurate copy of the foregoing OPPOSER'S NOTICE OF RELIANCE NO. 10 UNDER 37 CFR § 2.122(e) was served via electronic mail, on September 1, 2022 upon counsel for Opposer/Counterclaim Defendant at the following addresses of record:

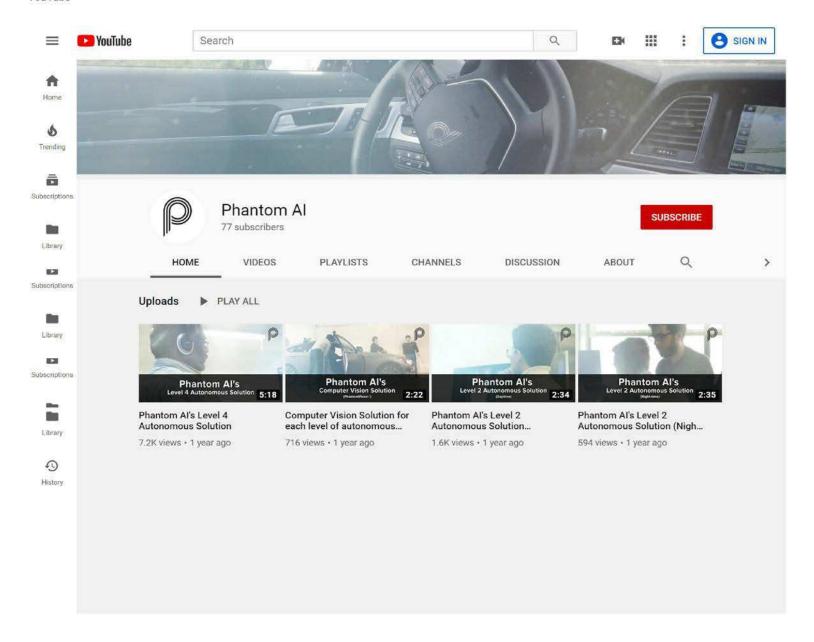
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/ Travis Smith /
Trademark Legal Assistant

DJI154





Valley

32811

PHANTON

Electric Trailer Brake Control



INSTALLATION INSTRUCTIONS

Tools Required:

- Drill with 1/8" Bit
- . 1/4" Nut Driver
- · Phillips Screwdriver
- Wiring Connector Crimping Tool
- · Wire Cutter/Stripper
- · End Wrenches
- · Probe Style Test Light

Additional Material Required:

- · 37194 Valley Brake Control Wiring Kit
- or . 30' 12 Ga. (or Heavier) Wire
 - 30 Amp 12v Auto-Reset Circuit Breaker
 - 10/12 Ga. #10 Ring Terminal
 - 10/12 Ga. %" Ring Terminal
 - 10/12 Ga. 78 Hilling Terrifina • 10/12 Ga. Butt Connectors
 - 14/16 Ga. Wire Tap
 - 4" Cable Ties

www.vtowing.com

JI001395



vour purchase of the PhantomTM trailer brake control module.

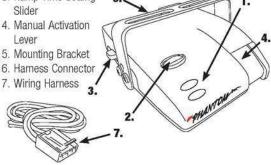
the ultimate in time-based trailer braking. Like its airborne predecessor, the Phantom is a dependable workhorse guaranteed to be a leader in your towing arsenal. Solid state dependability and polarity protection are just a few features the Phantom offers that are not found on many other brake controls.

FEATURES

- The Phantom provides easy-to-understand LED status indicators which assist with precise trailer brake output and ramp time adjustment and additionally communicate a full range of diagnostic information.
- The Phantom Electric Trailer Brake Control is polarity protected. If the positive (+) and negative (-) power leads are reversed, the unit isolates itself from the power input and protects itself from damage.
- Easy Precise Setup Separate controls for output power (gain) and ramp (reaction) time provide convenient setup adjustability.
- Stop Lamp Activation When applying the trailer brakes by utilizing the manual override slider alone, the Phantom will supply power to both the vehicle and the trailer's brake lights.
- . Mounts Anywhere Leveling of the Phantom Electric Trailer Brake Control is not required. This electronic unit is designed to operate in a wide range of positions.
- Easy Installation The Phantom uses a convenient plug-in harness, making installation a snap,
- The Phantom supports 1 to 2 axle trailers (2 to 4 brakes) and is ideal for use on trailers with electronically activated hydraulic braking systems.

CONTROLS / COMPONENTS

- 1. LED Display
- 2. Output Setting Knob
- 3. Ramp Time Setting Slider
- 4 Manual Activation
- 5. Mounting Bracket
- 7. Wiring Harness



MOUNTING

Note: Read all instructions thoroughly before beginning.

The Phantom™ electric trailer brake control can be mounted in a variety of positions, making it easily and comfortably accessible from the driver's position of most any tow vehicle. The unit is designed to be mounted horizontally or vertically, at any angle above or below the dash (Fig. 1, 2 & 3). Below Dash Mounting

1. Determine an appropriate mounting location that is easily accessible from a comfortable seated driving position.

Note: The brake control unit must be securely mounted to a solid surface (i.e. onto

or beneath the vehicles dash) within easy reach of the driver.







Fig. 2

Fig. 3

- 2. Place the mounting bracket into the desired position on the vehicle and mark the location of the bracket mounting slots.
- Using a 1/8" drill bit, drill the holes marked in step 2 into the mounting surface.

Caution: Ensure that the area directly behind the mounting surface is clear of obstructions that may be damaged while drilling.

4. Using a Phillips head screwdriver or a 1/4" nut driver, secure the bracket to the vehicle with the two 1/4" self tapping screws (provided). Take care not to



Fig. 4

strip the holes by over-tightening the screws.

5. Mount the Phantom™ electric trailer brake control into the bracket using the four 1/4" self tapping screws (provided) (Fig. 4). Start with the screw in the single hole position, followed by those in the curved slots for easiest attachment. Caution: Do not use longer screws than those provided.

WIRING

Note: Read all instructions thoroughly before beginning.

The use of proper gauge wire is critical when installing the Phantom electric trailer brake control. Lesser gauge wire may result in less than desirable braking operation. Minimum wire gauges are as follows:

1 - 2 Axle Trailers:
3 - 4 Axle Trailers:
12 Gauge Wire Minimum
10 Gauge Wire Minimum

Soldered connections are favorable when wiring the Phantom[™] electric brake control, however crimp-style connectors are acceptable in making these connections.

Caution: Improper connection of a trailer break-away kit may cause damage to the trailer brake system and/or the brake control.

FOR TOW VEHICLES EQUIPPED WITH ORIGINAL EQUIPMENT FACTORY TOW PACKAGES:

Ensure the tow vehicles brake control power circuit (+) is capable of delivering the required amount of current needed for the trailers braking system (Refer to the tow vehicle and trailer owners manuals). If the brake control power circuit (+) does not meet the demand, wire directly to the battery (steps 1 - 7 following).

Note: As vehicle wiring differs by manufacturer, use of a prewired brake control harness is recommended. Valley offers a wide range of custom harnesses designed to mate directly between the tow vehicle's factory brake control plug and the connector on the Phantom's case. 1. Connect the individual wires from the factory harness to the wiring harness supplied with the Phantom as outlined in the chart at right in the manner stated above.

Caution: As wire colors differ by manufacturer, the vehicle harness wire colors may differ from those on the brake control pigtail. Refer to

the chart, below the tow vehicle's owners manual and the instructions supplied with the original equipment factory connector for correct brake control wiring instructions.

CHEVROLET (Pre 2007)

Light Green White

Dark Blue

Brown



Fig. 5

ORIGINAL EQUIPMENT FACTORY SUPPLIED BRAKE CONTROL CONNECTOR PIGTAILS

Select the connector that matches your factory supplied brake control connector pigtail.

Factory Pigtail

Brake Control Harness

Wire Color

Wire Color

Function

Red	Connect To	Black	12 Volt Positive (+)
Light Blue	Connect To	Red	Stop Light
Black	Connect To	White	Ground (-)
Dark Blue	Connect To	Blue	Trailer Brakes
Brown	Not Used		
DODGE			
White with Red Stripe	Connect To	Black	12 Volt Positive (+)
Blue with White Stripe	Connect To	Red	Stop Light
Green with Black Stripe	Connect To	White	Ground (-)
Blue	Connect To	Blue	Trailer Brakes
DODGE (Alternate)			
Red with Black Stripe	Connect To	Black	12 Volt Positive (+)
White with Tan Stripe	Connect To	Red	Stop Light
Black	Connect To	White	Ground (-)
Blue	Connect To	Blue	Trailer Brakes
FORD			
Red	Connect To	Black	12 Volt Positive (+)

Connect To

Connect To

Connect To

Not Used

Red

White

Blue

Stop Light

Ground (-)

Trailer Brakes

ORIGINAL EQUIPMENT FACTORY SUPPLIED BRAKE CONTROL CONNECTOR PIGTAILS

Select the connector that matches your factory supplied brake control connector pigtail.

Factory Pigtail		Brake Control Harn	ess
Wire Color		Wire Color	Function
FORD (Alternate)			
Pink	Connect To	Black	12 Volt Positive (+)
Red	Connect To	Red	Stop Light
White	Connect To	White	Ground (-)
Blue	Connect To	Blue	Trailer Brakes
Brown	Not Used		
HONDA			
Blue	Connect To	Black	12 Volt Positive (+)
White with Black Sripe	Connect To	Red	Stop Light
Black	Connect Ta	White	Ground (-)
Brown with White Stripe	Connect To	Blue	Trailer Brakes
NISSAN			
Red	Connect To	Black	12 Volt Positive (+)
Red with Green Stripe	Connect To	Red	Stop Light
Black	Connect To	White	Ground (-)
Brown with White Stripe	Connect To	Blue	Trailer Brakes
Red with Light Blue Stripe	Not Used		
TOYOTA			
Black with Green Stripe	Connect To	Black	12 Volt Positive (+)
Green with White Stripe	Connect To	Red	Stop Light
Brown	Connect To	White	Ground (-)
Red	Connect To	Blue	Trailer Brakes
Green	Not Used		
TOYOTA (Alternate)			
Black with Red Stripe	Connect To	Black	12 Volt Positive (+)
Green with White Stripe	Connect To	Red	Stop Light
Brown	Connect To	White	Ground (-)

2. Connect the black 4-pin connector to the back of the Phantom trailer brake control, pushing firmly to seat the connector (Fig. 5).

Connect To

Not Used

Red

Green

3. Connect the factory connector on the harness to the tow vehicle in the manner stated in the vehicle owners manual.

Trailer Brakes

Rlue

WIRING (Continued)

For 2007-Current Chevrolet/GMC Trucks & Full-Size SUV's:

Beginning in 2007, General Motors Corp. eliminated the under dash brake control connector and factory pigtail, replacing it with blunt cut under dash wiring for electric trailer brake controls. located directly above the emergency brake pedal or above the climate control duct. When wiring to these vehicles, the harness supplied with the Phantom™ should be connected directly to these wires in the following manner:

Factory			Brake Contro	o l
Wire Color	Labeled		Wire Color	Function
Red	Batt	Connect To	Black 12	Volt Positive (+)
Light Blue	CHMSL	Connect To	Red	Stop Light
White	Ground	Connect To	White	Ground (-)
Dark Blue	AUX	Connect To	Blue	Trailer Brakes
Orange	Illumination	Not Used		

Caution: Use of the Orange wire indicated above may result in inadequate, pulsing and/or

no braking. Do Not Use.

Additionally, the 12V+ power line located under the hood near the power distribution box must be connected to supply power to the brake control circuit. Locate the Red wire with a Black stripe containing a ring terminal that is coiled and taped to the factory wiring harness under the power brake booster (Fig. 6). Attach this wire to the M8 stud #1 on the side of the power distribution box on



Fig. 6

the driver's side of the engine compartment using an M8 nut (Fig. 7). Note: This nut is not provided and must be purchased separately. Once this connection is made.

locate the second Red wire



Fig. 8

with a Black stripe containing a ring terminal that is coiled and taped to the factory wire harness between the driver's side front fender and the power distribution box (Fig. 8). Attach this wire to the M6 stud #2 on the side of the power distribution box using an M6 nut to complete the 12V+ power circuit to the 7-Way trailer connector at the rear of the vehicle.

Note: This nut is not provided and must be purchased separately.

FOR TOW VEHICLES NOT EQUIPPED WITH ORIGINAL EQUIPMENT FACTORY TRAILER TOW PACKAGES:

The brake control must be spliced into the vehicle's existina

wiring harness as follows:

1. Mount a 30 amp automotive style circuit breaker near the tow vehicle's positive (+) battery terminal. Using a length of 10 ga. stranded wire, strip 5/16" of insulation from one end and attach a 3/8" 12 ga. crimp-style ring terminal. Strip 5/16" from the opposite end and attach a #10 12 ga. crimp style ring terminal. Connect this lead to the circuit breaker terminal labeled "BATT". The opposite end will mount to the vehicle's positive (+) battery terminal during step 12.

Caution: Do not attach to the vehicle's positive (+) battery terminal at this time.

- 2. Feed a length of 10 ga, stranded duplex wire (white & black) from the brake control to the vehicles battery compartment. Caution: When passing wire through sheet metal, always utilize an existing grommet, add a grommet or use silicone rubber to insulate the wire from the hole.
- 3. Attach a 3/8" 12 ga, ring terminal to the White wire, and a #10 12 ga. ring terminal to the Black wire in the same manner as step 2.
- 4. Attach the Black wire to the circuit breaker terminal labeled "ALIX"

Caution: Do not connect the circuit breaker to the vehicle battery at this time.

5. Attach the White wire to the vehicles Negative (-) battery post.

Note: If the brake control is not properly grounded LIGHT GREEN WIRE or is not receiving a proper power supply, it may operate intermittently or not at all. Ensure that the White wire is securely connected to the Negative (-) battery terminal.

- 6. From the driver's area, attach the brake control's Black "POWER" wire to the opposite end of the Black wire attached to the "AUX" side of the circuit breaker using a yellow 10/12 ga. butt connector or by soldering the leads together.
- 7. Attach the brake controls White "GROUND (-)" wire to the opposite end of the White wire leading to the vehicles negative (-) battery terminal using a yellow 10/12 ga. butt connector or by soldering the leads together.

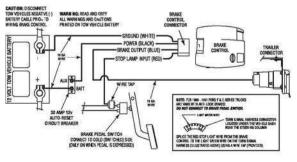
8A. For 1989-1991 Ford E & F-Series Trucks & Vans with anti-lock brakes: (All other vehicles continue to Step 8B). Locate the crescent shaped turn signal harness connector (Fig. 9) located on the steering column under the dash. The connector will have two rows of wires. A row of four wires and a row of seven wires. Attach the brake controls Red "STOP LAMP INPUT" wire to the light green wire (second in the row of seven) with a 14 ga. wire tap. Caution: Do not connect to the Red wire with the Green.

8B. For All Other Vehicles:

Stripe as serious damage may occur.

Locate the stop light switch on the back side of the vehicles brake pedal. Determine which side of the switch is the "cold" or switched side by probing the terminals of the switch with a test light or current meter. The cold terminal will only indicate power when the brake pedal is depressed. Connect the brake controls Red "STOP LAMP INPUT" wire to the cold side of the stop light switch with a 14 ga. wire tap.

9. Feed a length of 10 ga. **Blue** stranded wire from the brake control to the trailer connector at the rear of the vehicle.



Caution: When passing wire through sheet metal, always utilize an existing grommet, add a grommet or use silicone rubber to insulate the wire from the hole.

- 10. Attach the brake controls **Blue** "BRAKE OUTPUT" wire to the **Blue** 10 Ga. wire using a 10/12 ga. butt connector.
- **11.** At the rear of the vehicle, attach the **Blue** wire to the vehicle's trailer connector brake terminal (see the connector's wiring diagram for the correct terminal location).
- 12. Connect the wire from the "BATT" side of the circuit breaker to the vehicle's positive (+) battery terminal.

Note: The Black "Battery" wire must be connected directly to the tow vehicle's positive (+) battery terminal via a self-resetting 30 amp circuit breaker. Do not attempt to connect this wire to the vehicle's fuse panel or other accessory wiring. Failure to connect directly to the vehicle battery may damage vehicle wiring and cause trailer brake failure.

LED DISPLAY

Once the wiring is complete, the Green LED will communicate the brake controls activity:

- Power Conservation
 Mode The trailer is
 connected but no braking event is in process. The Phantom™
 will become instantly active when the vehicle's brake pedal
 is depressed or the manual activation lever is moved.
- Manual Activation
 Lever or Vehicle
 Brakes Applied but No Trailer Connected The Phantom is receiving power and is active.

Manual Activation Lever or Vehicle Brakes Applied - Trailer is connected (output intensity is based on output (gain) setting and the position of the manual

- Ramp Time Adjustment Green LED Flashes
 Manual Activation Lever
 or vehicle brakes are applied and the ramp time setting slider is being adjusted.
- Output (Gain) Green LED Illuminates
 Adjustment Output
 Setting Knob is rotated to display the desire power output setting, (LED intensity is based on output (gain) and the position of the manual lever, if applied).

TROUBLESHOOTING

lever, if applied).

In addition to indicating output power and ramp time settings, the Phantom™ is capable of communicating operating errors via its Red LED indicator.

Short Circuit Situation The trailer brake circuit
 may be shorted to ground (blue wire). Check for improper
 wiring. The unit will reset itself once the situation is
 corrected.

OUTPUT & RAMP TIME SETTINGS

Prior to towing, the Output Power must be adjusted for the individual trailer being towed.

- 1. Connect the desired trailer to the tow vehicle.
- 2. Start the tow vehicle to ensure sufficient battery power is being supplied to the brake control. While parked, depress the brake pedal and rotate the Output Setting Knob located on the top of the brake control to the midway position. The green LED should be illuminated.
- **3.** Continue to press on the brake pedal and position the Ramp Time Setting Slider located on the left side of the control to the rearward position.
- **4.** In an open and controlled area, release the brake pedal and drive forward on a dry level surface at approximately 20 mph. Ensure that ample distance is available for safe braking and slowly apply the brake control's Manual Activation Lever until the trailer brakes fully engage to stop the trailer.

If Trailer Brakes Lock Up:

Reduce power to the trailer brakes by rotating the Output Setting Knob counter-clockwise. Reduced power is indicated by a dimming of the green LED indicator.

If Trailer Braking was Insufficient:

Increase power to the trailer brakes by rotating the Output Setting Knob clockwise. Increased power is indicated by a brightening of the green LED indicator.

- **5.** Continue to repeat steps 5 and 6 until the desired power output has been achieved. The brake control output should be just below the point where the trailer wheels lock up, yet there is sufficient force to allow for maximum brake force.
- **6.** Once the initial output power level has been established, adjust the Ramp Time by performing additional low speed stops (20 mph) utilizing the tow vehicles brake pedal to ensure smooth combination braking between the tow vehicle and the trailer.

If Trailer Brakes are Lagging the Vehicle:

Move the Ramp Time Setting Slider forward (toward the front of the brake control) to increase the speed of trailer brake application.

If Trailer Brakes are Overly Aggressive:

Move the Ramp Time Setting Slider rearward (toward the back of the brake control) to decrease the rate of trailer brake application.

Once the desired Ramp Time has been established, it may be necessary to re-adjust the Power Output Setting (steps 4-5).

Caution: Increasing the power output setting or ramp time setting should NOT be utilized as an option to adjusting or repairing trailer brakes.

NOTE: In certain situations trailer brakes may not be capable of locking up. This situation can be associated with brake wear, overall trailer weight, trailer length and/or wire gauge. If the trailer brakes will not lock up during the setup procedures, it is recommended that all components of the braking system are checked to ensure safe towing.

Caution: On some vehicles, manual operation of trailer brakes will not override the tow vehicle's cruise control operation.

OPERATING TIPS

- Light pressure on the brake pedal will activate the trailer brakes without applying the tow vehicle brakes. This is useful when traversing grades, anticipating stops or correcting trailer sway.
- Periodic adjustment of the Ramp Time and Output Setting Knobs may be necessary to compensate for trailer loading, brake wear and varying road conditions.

- Application of the trailer brakes by utilizing either the brake pedal or Manual Activation Lever will illuminate the trailer's brake lights.
- On some vehicles, the use of hazard flashers may pulse the trailer brakes. To reduce this effect, adjust the Ramp Time to a lower setting, or install a pulse preventor (Valley part no. 37191).

BENCH TESTING

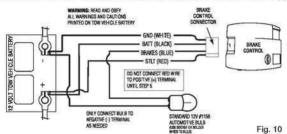
The Phantom™ can be field tested should correct operation be suspect. Remove the unit from the tow vehicle and wire to a 12 volt automotive battery and #1156 automotive bulb as illustrated in fig. 6.

Wiring

- 1. Attach the unit's Blue wire to one side of a standard #1156 12 volt automotive bulb by using a socket or by soldering the wire to the bulb.
- 2. Attach a length of 16 ga. or larger wire to the other side of the #1156 bulb.
 - 3. Attach the White wire to the Negative (-) battery terminal.
 - 4. Attach the Black wire to the Positive (+) battery terminal.

Note: Do not attach the unit's Red wire or the bulb to the battery at this time.

Caution: Do NOT touch the brake control's RED wire to Ground (-)



as this will destroy the unit.

Testing

- Rotate the Output Setting Knob completely clockwise and slide the Ramp Time Setting toward the front of the unit.
- 2. Connect the light bulb to the Negative (-) battery terminal as illustrated in Fig. 10.
- Move the Manual Activation Lever to the left. The unit's green LED indicator should increase in illumination. The light bulb illumination will increase along with the green LED on the brake control.
- **4.** Release the Manual Activation Lever. The green LED indicator and the light bulb should go out.
- **5.** Attach the Red wire to the Positive (+) battery terminal. The unit's green LED and the light bulb should increase in intensity.
- Slowly rotate the Output Adjustment Knob counterclockwise.
 The green LED and the light bulb should smoothly decrease in intensity.
 - 7. Adjust the ramp time setting to the rearward position.
- 8. Disconnect and reconnect the red wire from the battery's positive (+) terminal. The light bulb should light brightly with a minimal delay.
- **9.** If the Blackbird[™] electric trailer brake control does not function as described in the steps above, return the unit to an authorized distributor for service or replacement.

TROUBLESHOOTING GUIDE

	Condition	Display Reads	Possible Cause	Potential Solution
	Display is blank when brake or manual application lever is applied	<blank></blank>	No power to control no ground connection, reversed black and white (power) wires, faulty circuit breaker.	Check and repair connections. See the "wiring" section of this manual.
With Trailer Attached	Green LED does not light up when brake pedal is pressed, but does illuminate when the manual application lever is applied.	<blank> (brake pedal) • (manual)</blank>	No connector or incorrect connection at stop lamp switch on brake pedal or blown tuse in stop lamp circuit.	Check and repair connections. See the "wiring" section of this manual. Check vehicle stop lamp circuit.
	Green LEO lights up immediately after applying battery power only and does not go out.	Green LED	Red wire from brake control is connected to the wrong side of the stop lamp switch or to the wrong switch (cruise control).	Check and repair conrections. See the "wiring" section of this manual.
	No trailer brake output when either brake pedal or manual application lever is applied.	Green LED (Variable Brightness)	No connection between brake control and trailer brakes (blue wire).	Confirm proper connection to trailer harness, confirm connector terminal positions, check trailer wiring.
	No trailer brake output when either brake pedal or manual application lever is applied.	Green LED	Miswired trailer connector.	Confirm trailer connector terminal positions.
	No trailer brake output when either brake pedal or manual application lever is applied.	Blinking Red LED	Short in brake output circuit (blue wire)	Troubleshoot trailer brake wiring circuit per trailer manufacturer's instructions.
	Weak or no trailer brakes.	Green LED (Variable Brightness)	Miswired trailer connector.	Inspect and correct connector positions.
	Trailer brakes always on	<blank></blank>	Miswired trailer connector.	Inspect and correct connector positions.

TROUBLESHOOTING GUIDE

	Condition	Display Reads	Possible Cause	Potential Solution
	Green LED does not light up when brake pedal or manual activation lever is applied.	<blank></blank>	No power to control, no ground connection reversed black and white (power) wires, taulty circuit breaker.	Check and repair connections. See the "wiring" section of this manual.
No Trailer Attached	Green LED does not light up when brake pedal is pressed, but does illuminate when the manual application lever is applied.	<blank> (brake pedal) • (manual)</blank>	No connection or incorrect connection at stop lamp switch on brake pedal or blown luse in stop lamp circuit.	Check and repair connections. See the "wining" section of this manual. Check vehicle stop lamp circuit.
	Green LED lights up immediately after applying battery power only and does not go out.	Green LED	Red wire from brake control is connected to the wrong side of the stop lamp switch or to the wrong switch (cruise control).	Check and repair conections. See the "wiring" section of this manual.
	LED shows power output when brake or manual activation lever is applied.	Green LED	Brake control's blue wire is miswired.	Check and repair connections. See the "wiring" section of this manual.
	Red LED plinking when brake or	Blinking	Short in brake output	Locate and correct

Red LED

circuit (blue wire).

short.

manual activation lever is applied.

SERVICE AND SUPPORT

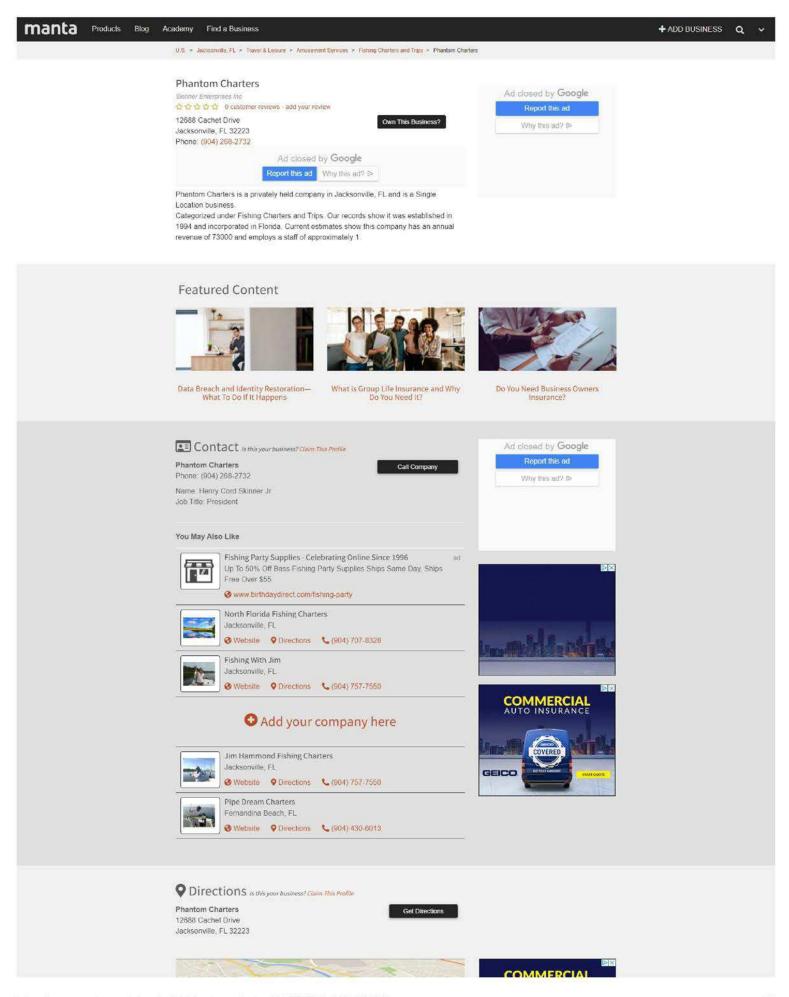
 For additional questions regarding installation and usage, call Valley's Technical Service Support Line at (800) 344-3230 Monday through Friday. 8 am to 5 pm eastern time.

Español

 Para una copia de estas instrucciones en español, visita www.vtowing.com.
 http://www.vtowing.com/isheets/32811sp.pdf

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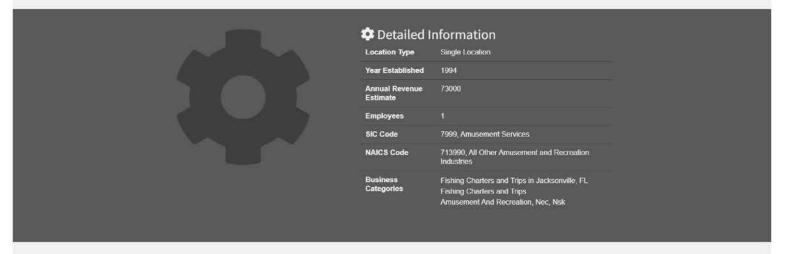
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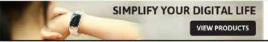




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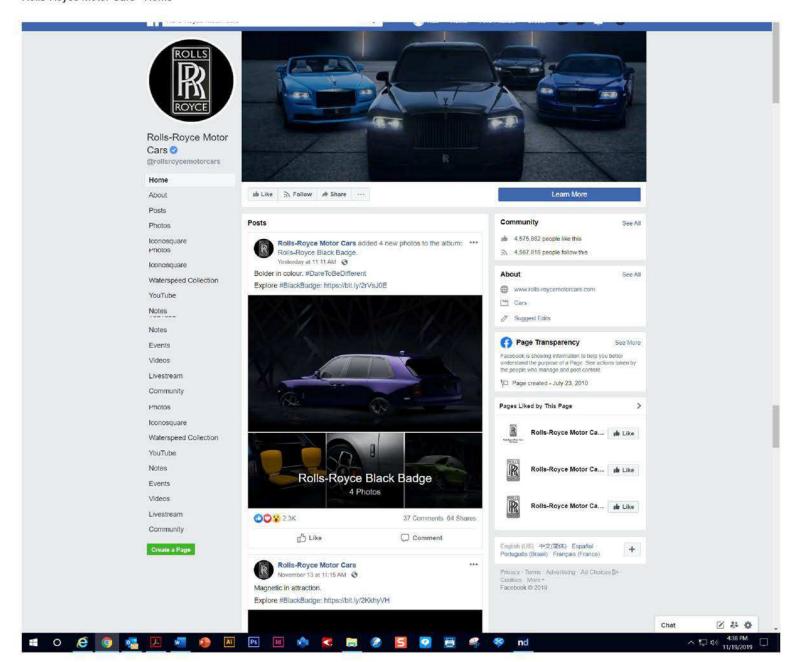
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McDonnell FH Phantom

The McDonnell FH Phantom was a twinjet fighter aircraft designed and first flown during World War II for the United States Navy. The Phantom was the first purely jet-powered aircraft to land on an American aircraft carrier[2][N 1] and the first jet deployed by the United States Marine Corps. Although with the end of the war, only 62 FH-1s were built, it helped prove the viability of carrier-based jet fighters. As McDonnell's first successful fighter, leading to the development of the follow-on F2H Banshee, which was one of the two most important naval jet fighters of the Korean War, it would also establish McDonnell as an important supplier of navy aircraft. [4] When McDonnell chose to bring the name back with the Mach 2-class McDonnell Douglas F-4 Phantom II, it launched what would become the most versatile and widely used western combat aircraft of the Vietnam War era, adopted by the USAF and the US Navy, remaining in use with various countries to the present day. [5]

The FH Phantom was originally designated the **FD Phantom**, but the designation was changed as the aircraft entered production.

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62

McDonnell F2H Banshee

Number built

Developed into

Design and development

In early 1943, aviation officials at the United States Navy were impressed with McDonnell's audacious XP-67 Bat project. McDonnell was invited by the navy to cooperate in the development of a shipboard jet fighter, using an engine from the turbojets under development by Westinghouse Electric Corporation. Three prototypes were ordered on 30 August 1943 and the designation XFD-1^[N 2] was assigned. Under the 1922 United States Navy aircraft designation system, the letter "D" before the dash designated the aircraft's manufacturer. The Douglas Aircraft Company had previously been assigned this letter, but the USN elected to reassign it to McDonnell because Douglas had not provided any fighters for navy service in years.^[6]

McDonnell engineers evaluated a number of engine combinations, varying from eight 9.5 in (24 cm) diameter engines down to two engines of 19 inch (48 cm) diameter. The final design used the two 19 in (48 cm) engines after it was found to be the lightest and simplest configuration.^[7] The engines were buried in the wing root to keep intake and exhaust ducts short, offering greater aerodynamic efficiency than underwing nacelles, [8] and the engines were angled slightly outwards to protect the fuselage from the hot exhaust blast. [6] Placement of the engines in the middle of the airframe allowed the cockpit with its bubble-style canopy to be placed ahead of the wing, granting the pilot excellent visibility in all directions. This engine location also freed up space under the nose, allowing designers to use tricycle gear, thereby elevating the engine exhaust path and reducing the risk that the hot blast would damage the aircraft carrier deck. [9] The construction methods and aerodynamic design of the Phantom were fairly conventional for the time; the aircraft had unswept wings, a conventional empennage, and an aluminum monocoque structure with flush riveted aluminum skin. Folding wings were used to reduce the width of the aircraft in storage configuration. Provisions for four .50-caliber (12.7 mm) machine guns were made in the nose, while racks for eight 5 in (127 mm) High Velocity Aircraft Rockets could be fitted under the wings, although these were seldom used in service. [6] Adapting a jet to carrier use was a much greater challenge than producing a land-based fighter because of slower landing and takeoff speeds required on a small carrier deck. The Phantom used split flaps on both the folding and fixed wing sections to enhance low-speed landing performance. [10] but no other high-lift devices were used. Provisions were also made for Rocket Assisted Take Off (RATO) bottles to improve takeoff performance.[6]



A U.S. Navy FH-1 of VF-17A

Phantom Fighters taxies to the
catapult during carrier qualifications
on the light aircraft carrier Saipan, in
May 1948

When the first XFD-1, serial number 48235, was completed in January 1945, only one Westinghouse 19XB-2B engine was available for installation. Ground runs and taxi tests were conducted with the single engine, and such was the confidence in the aircraft that the first flight on 26 January 1945 was made with only the one turbojet engine. During flight tests, the Phantom became the first naval aircraft to exceed 500 mph (434 kn, 805 km/h). With successful completion of tests, a production contract was awarded on 7 March 1945 for 100 FD-1 aircraft. With the end of the war, the Phantom production contract was reduced to 30 aircraft, but was soon increased back to 60.

The first prototype was lost in a fatal crash on 1 November 1945, [13] but the second and final Phantom prototype (serial number 48236) was completed early the next year and became the first purely jet-powered aircraft to operate

from an American aircraft carrier, completing four successful takeoffs and landings on 21 July 1946, from *Franklin D. Roosevelt* near Norfolk, Virginia.^[1] At the time, she was the largest carrier serving with the U.S. Navy, allowing the aircraft to take off without assistance from a catapult.^[12] The second prototype crashed on 26 August 1946.^[14]

Production Phantoms incorporated a number of design improvements. These included provisions for a flush-fitting centerline drop tank, an improved gunsight, and the addition of speed brakes. Production models used Westinghouse J₃₀-WE-20 engines with 1,600 lbf (7.1 kN) of thrust per engine. The top of the vertical tail had a more square shape than the

rounder tail used on the prototypes, and a smaller rudder was used to resolve problems with control surface clearance discovered during test flights. The horizontal tail surfaces were shortened slightly, while the fuselage was stretched by 19 in (48 cm). The amount of framing in the windshield was reduced to enhance pilot visibility. [6][12]

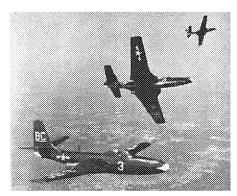
Halfway through the production run, the navy reassigned the designation letter "D" back to Douglas, with the Phantom being redesignated FH-1.^[12] Including the two prototypes, a total of 62 Phantoms were finally produced, with the last FH-1 rolling off the assembly line in May 1948.^[15]

Realizing that the production of more powerful jet engines was imminent, McDonnell engineers proposed a more powerful variant of the Phantom while the original aircraft was still under development – a proposal that would lead to the design of the Phantom's replacement, the F2H Banshee. Although the new aircraft was originally envisioned as a modified Phantom, the need for heavier armament, greater internal fuel capacity, and other improvements eventually led to a substantially heavier and bulkier aircraft that shared few parts with its agile predecessor. [16] Despite this, the two aircraft were similar enough that McDonnell was able to complete its first **F2H-1** in August 1948, a mere three months after the last **FH-1** had rolled off the assembly line. [17]

Operational history

The first Phantoms were delivered to USN fighter squadron VF-17A (later redesignated VF-171) in August 1947;^[18] the squadron received a full complement of 24 aircraft on 29 May 1948. Beginning in November 1947, Phantoms were delivered to United States Marine Corps squadron VMF-122, making it the first USMC combat squadron to deploy jets.^[18] VF-17A became the USN's first fully operational jet carrier squadron when it deployed aboard USS Saipan on 5 May 1948.^{[19][N 4]}

The Phantom was one of the first jets used by the U.S. military for exhibition flying. Three Phantoms used by the Naval Air Test Center were used by a unique demonstration team called the Gray Angels, whose members consisted entirely of naval aviators holding the rank of rear admiral (Daniel V. Gallery, Apollo Soucek and Edgar A. Cruise.)^{[18][20]} The team's name was an obvious play on the name of the recently formed U.S. Navy Blue Angels, who were still flying propeller-powered Grumman F8F Bearcats at the time. The "Grays" flew in various air shows during the summer of 1947, but the team was abruptly disbanded after their poorly timed arrival at a September air show in Cleveland, Ohio, nearly caused a head-on low-altitude collision with a large formation of other aircraft; their Phantoms were turned over to test squadron VX-3.^[1] The VMF-122 Phantoms were later used for air show demonstrations until they were taken out of service in 1949, with the team being known alternately as the Marine Phantoms or the Flying Leathernecks.^{[1][18]}



Three FH-1 Phantoms of VMF-122 in 1949



Three aircraft of the Minneapolis U.S. Naval Air Reserve (front to back): an FH-1 Phantom, an F4U-1 Corsair, and an SNJ Texan in 1951.

The Phantom's service as a frontline fighter would be short-lived. Its limited range and light armament – notably, its inability to carry bombs – made it best suited for duty as a point-defence interceptor aircraft. However, its speed and rate of climb were only slightly better than existing propeller-powered fighters and fell short of other contemporary jets, such as the Lockheed P-80 Shooting Star, prompting concerns that the Phantom would be outmatched by future enemy jets it might soon face. Moreover, recent experience in World War II had demonstrated the value of naval fighters that could double as fighter-bombers, a capability the Phantom lacked. Finally,

the aircraft exhibited some design deficiencies – its navigational avionics were poor, it could not accommodate newly developed ejection seats,^[1] and the location of the machine guns in the upper nose caused pilots to be dazzled by muzzle flash.^[16]

The F2H Banshee and Grumman F9F Panther, both of which began flight tests around the time of the Phantom's entry into service, better satisfied the navy's desire for a versatile, long-range, high-performance jet. Consequently, the FH-1 saw little weapons training, and was primarily used for carrier qualifications to transition pilots from propeller-powered fighters to jets in preparation for flying the Panther or Banshee. In June 1949, VF-171 (VF-17A) re-equipped with the Banshee, and their Phantoms were turned over to VF-172; this squadron, along with the NATC, VX-3, and VMF-122, turned over their Phantoms to the United States Naval Reserve by late 1949 after receiving F2H-1 Banshees. The FH-1 would see training duty with the USNR until being replaced by the F9F Panther in July 1954; none ever saw combat, having been retired from frontline service prior to the outbreak of the Korean War.

Civilian use

In 1964, Progressive Aero, Incorporated of Fort Lauderdale, Florida purchased three surplus Phantoms, intending to use them to teach civilians how to fly jets. A pair were stripped of military equipment and restored to flying condition, but the venture was unsuccessful, and the aircraft were soon retired once again.^[21]

Variants

XFD-1

Prototype aircraft powered by 1,165 lbf (5.18 kN) Westinghouse 19XB-2B engines (J-30). Two built.^[2]

FH-1 (FD-1)

Production version with 1,600 lbf (7.1 kN) Westinghouse J30-WE-20 engines (originally designated FD-1). 60 built.^[2]

Operators

United States

- United States Navy
 - VX-3
 - VF-171 (VF-17A)
 - VF-172
 - Naval Air Reserve
- United States Marine Corps
 - VMF-122
 - VMF-311

Aircraft on display

FH-1

BuNo 111759 - National Air and Space Museum of the Smithsonian Institution in Washington, D.C., United States. [22]
 This aircraft served with Marine Fighter Squadron 122 (VMF-122). It was retired in April 1954, with a total of 418 flight

hours. The aircraft was transferred to the Smithsonian by the U.S. Navy in 1959 [23]

- BuNo 111768 Wings of Eagles Discovery Center in Horseheads. New York. [24] It has had a busy post-retirement life. Formerly a Progressive Aero aircraft c/n 456 (civil registration N4283A) it was placed on display at the Marine Corps Museum. The aircraft was later transferred to the St. Louis Aviation Museum, and then the National Warplane Museum in Geneseo, New York. In 2006 the aircraft was moved its current location. [23] 5 Aug 2016 aircraft is on display in H3 of Pima Air & Space Museum, Tucson, Arizona.
- BuNo 111793 National Naval Aviation Museum at Naval Air Station Pensacola, Florida. [25] This aircraft was accepted by the navy on 28 February 1948. After flying for a brief time with Marine Fighter Squadron (VMF) 122, the first Marine jet squadron, at Marine Corps Air Station Cherry Point, North Carolina, it was stricken from the naval inventory in 1949. The museum acquired the aircraft from National Jets, Inc., of Fort Lauderdale, Florida, in 1983.[23]



FH-1 Phantom on display in Washington, D.C.

Specifications (FH-1 Phantom)

Data from Naval Fighters #3: McDonnell FH-1 Phantom, [26] McDonnell Douglas Aircraft since 1920 [27]

General characteristics

- Crew: 1
- Length: 37 ft 3 in (11.35 m)
- Wingspan: 40 ft 9 in (12.42 m)
- Width: 16 ft 3 in (4.95 m) wings folded^[8]
- Height: 14 ft 2 in (4.32 m)
- Height folded: 16 ft 10 in (5 m)
- Wing area: 273.74 sq ft (25.431 m²)
- Airfoil: root: NACA 66-218 a=.6; tip: NACA 66-215-414 a=.6^[28]
- Empty weight: 6,683 lb (3,031 kg)
- Gross weight: 10,035 lb (4,552 kg)
- Max takeoff weight: 12,035 lb (5,459 kg)
- Fuel capacity: 375 US gal (312 imp gal; 1,420 l) gasoline internal, with optional 295 US gal (246 imp gal; 1,120 l) external belly tank.
- Powerplant: 2 × Westinghouse J30-WE-20 (or J30-P20) turbojet, 1,600 lbf (7.1 kN) thrust each (Westinghouse 19 XB-2B)
- Powerplant: 2 × Aerojet 14AS-1000 D5 JATO bottles, 1,000 lbf (4.4 kN) thrust each for 14 seconds

Performance

- Maximum speed: 505 mph (813 km/h, 439 kn) at 3\30,000 ft (9,100 m)
- Cruise speed: 248 mph (399 km/h, 216 kn)
- Landing speed: 80 mph (70 kn; 130 km/h)
- Range: 690 mi (1,110 km, 600 nmi)
- Ferry range: 1,400 mi (2,300 km, 1,200 nmi) with external belly tank.
- Service ceiling: 41,100 ft (12,500 m)
- Rate of climb: 4,230 ft/min (21.5 m/s)
- Wing loading: 36.4 lb/sq ft (178 kg/m²)
- Thrust/weight: 0.32

Armament

- Guns: 4 × .50 in (12.7 mm) machine guns
- Rockets: 8 × 5 in (127 mm) High Velocity Aircraft Rockets^[6]

See also

Related development

McDonnell F2H Banshee

Aircraft of comparable role, configuration and era

- de Havilland Sea Vampire
- Hawker Sea Hawk
- North American FJ-1 Fury
- Supermarine Attacker
- Vought F6U Pirate

Related lists

- List of fighter aircraft
- List of military aircraft of the United States

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Notes

- 1. The first aircraft to land on an American carrier under jet power was the unconventional composite propeller-jet Ryan FR Fireball, designed to utilize its piston engine during takeoff and landing. On 6 November 1945, the piston engine of an FR-1 failed on final approach; the pilot started the jet engine and landed, thereby performing the first jet-powered carrier landing, albeit unintentionally.^[3]
- The U.S. Navy had earlier used the XFD-1 designation for the prototype Douglas XFD biplane fighter, which did not enter production due to changing Navy requirements.
- McDonnell assistant Chief Engineer Kendall Perkins has stated that this "first flight" was no more than a "hop", and that the real first flight would wait until a second engine was fitted a few days later.^[12]
- 4. Squadron VF-5A, flying the North American FJ-1 Fury, had conducted the navy's first all-jet aircraft carrier operations at sea on 10 March 1948 aboard *Boxer*, but the entire squadron was not considered operational at the time.

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Phantom T5 ROV deep sea drone makes its debut

Posted on February 5, 2016 (https://www.iims.org.uk/phantom-t5-rov-deep-sea-drone-makes-its-debut/) by News Hound (https://www.iims.org.uk/author/newshound/)

Deep Ocean Engineering, Inc., based in the USA has revealed its newest addition to its family of underwater drones, the Phantom T5 ROV.

The applications for use of the Phantom T5 span a broad spectrum of industries, but include port security, vessel inspection, salvage and SAR.

"The Phantom T5 open-frame architecture makes mechanical integrations a breeze, while the dedicated expansion bulkhead connectors, used for both power and telemetry, are provided as standard. In addition, an optional tool skid allows the customer to 'bolt on' their sensors or tools by plugging into the expansion bulkhead connectors for nearly limitless, task-specific, expansion possibilities" said John Bergman, Deep Ocean Engineering, Vice President of Engineering.

Ben Kinnaman, President and CEO of Greensea Systems, Inc., appreciates what a great match the powerful T5 is with Greensea's advanced



(https://www.iims.org.uk/wpcontent/uploads/2016/02/deepocean1.jpg)

The new Phantom T5 ROV from Deep Ocean Engineering (Photo: AJ Cecchettini)

controls. He said, "The (Deep Ocean Engineering) engineers are top-tier, and we are happy to work with such a strong, resilient, and rugged vehicle. We know that integrating any of our navigation, control, and autonomy packages on their ROVs will result in high performance and increased capabilities."

As standard the T5 comes equipped with full HD video (1080i & 0.35 lux) with 20X optical zoom, on-screen videographic overlay mounted on a tilt platform with angle feedback. It has a 300m depth rating (500m optional), LED Lights, and two person portability (39 kg / 86 lbs. dry weight)

Deep Ocean adds that user accessible power/telemetry bulkheads and open frame architecture allow easy expansion and the device also offers minimal topside footprint for rapid deployment. The manufacturers also claim that the device's magnetically coupled thrusters offer the highest thrust to weight ratio and reliability of any ROV in its class.

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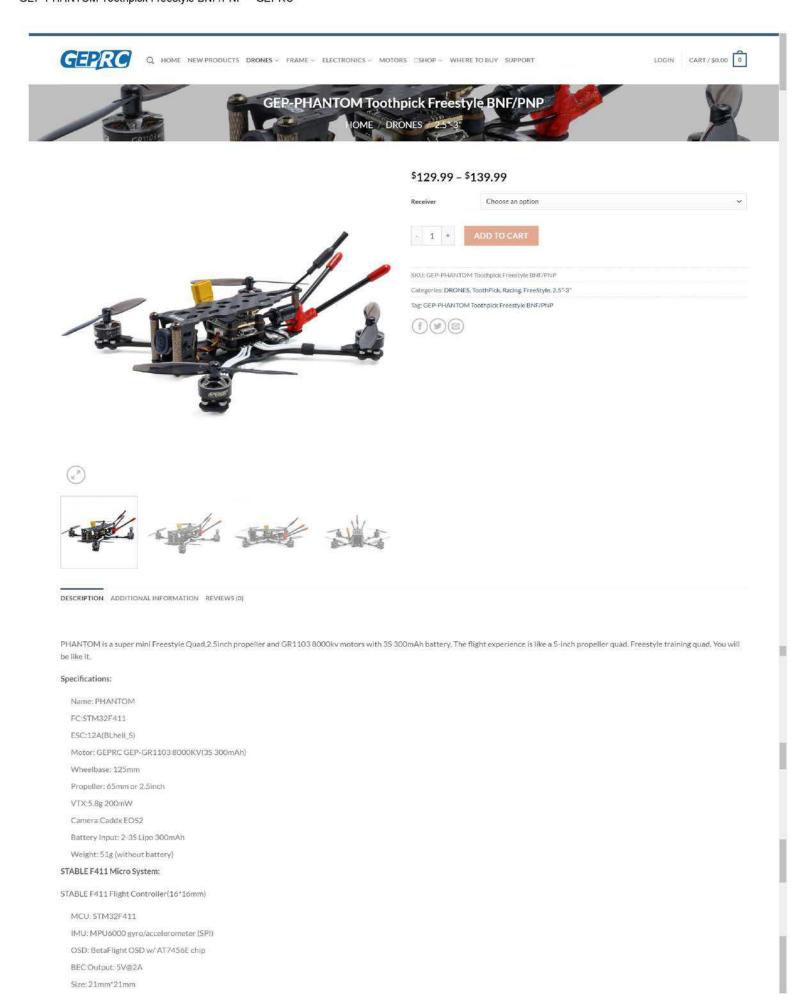


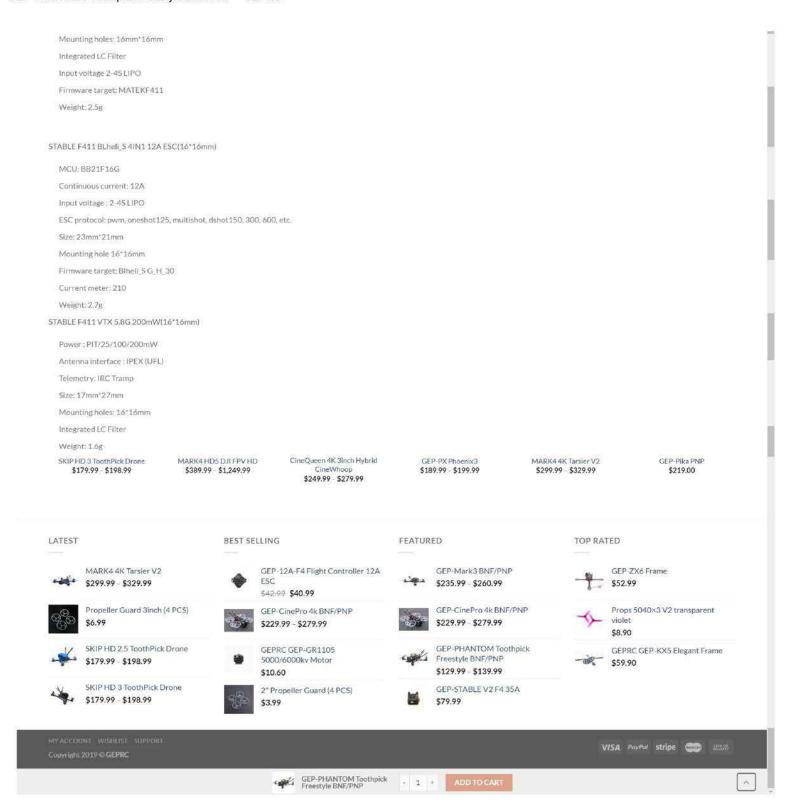


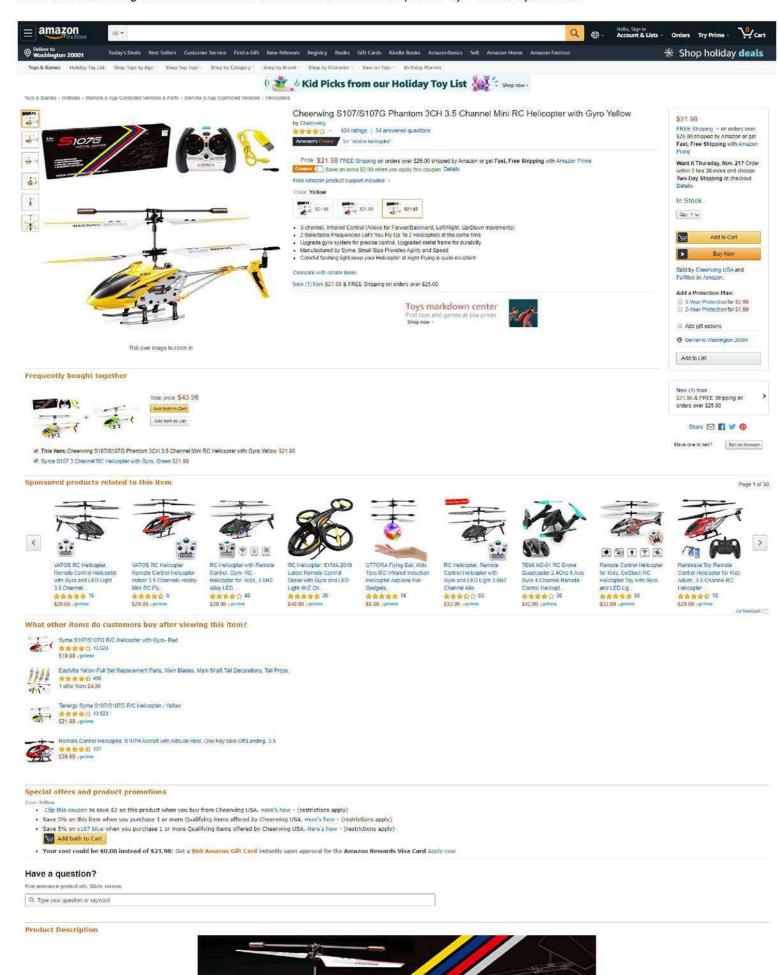














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 Super Wide Infrared Control
 Easy to fly
 Complete Kit, Ready to Fly

- Specifications:

 Main Rotor Diameter (Lower): 190mm

- Valin Rotor Diameter (Lover)* 190mm
 Tall Rotor Diameter: 30mm
 Fusellage Length / 20mm
 Fusellage Length / 20mm
 Fusellage Height: 96mm
 Fuselage With: 30mm
 Power System: 100 motor/2
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 Trenameter Battery; 8 x 1.5 y AA Aliasine Batteries (not included)

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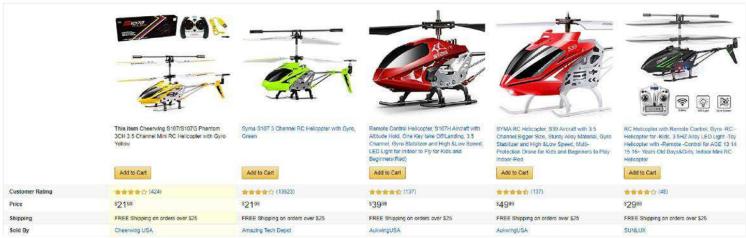


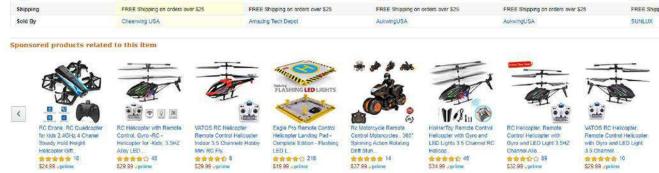
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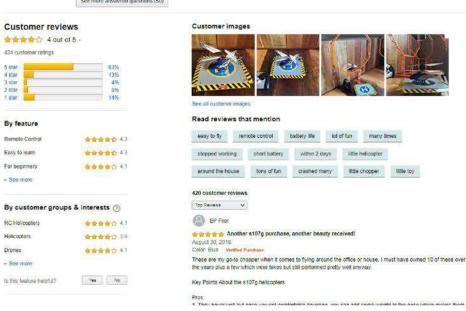
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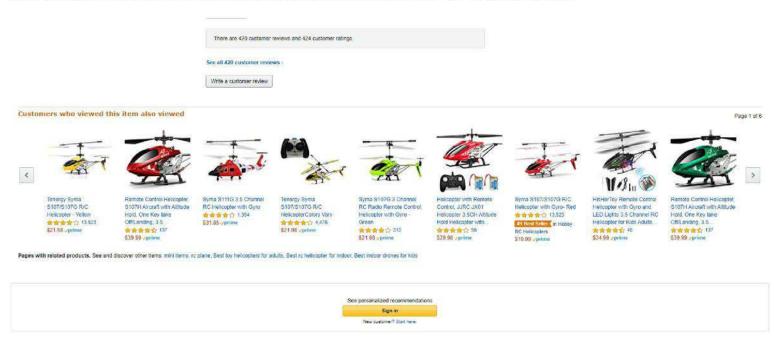
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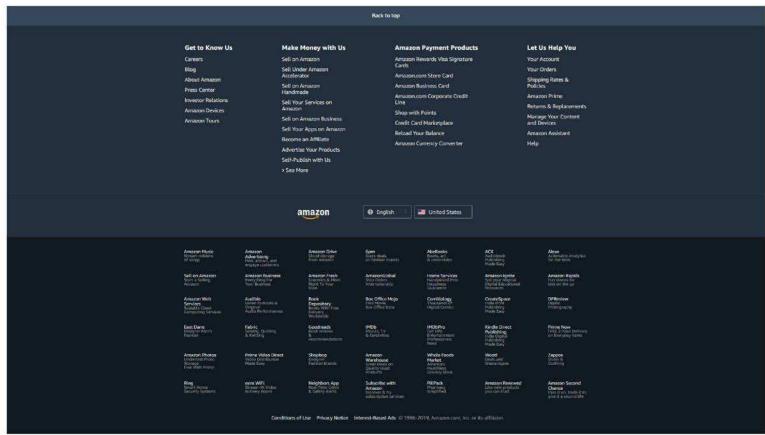


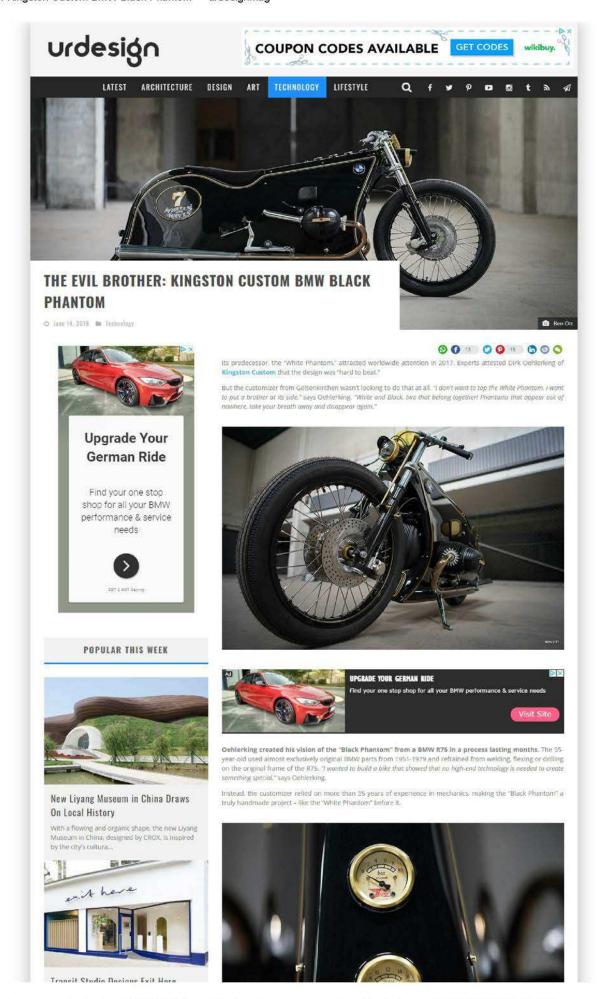
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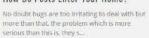
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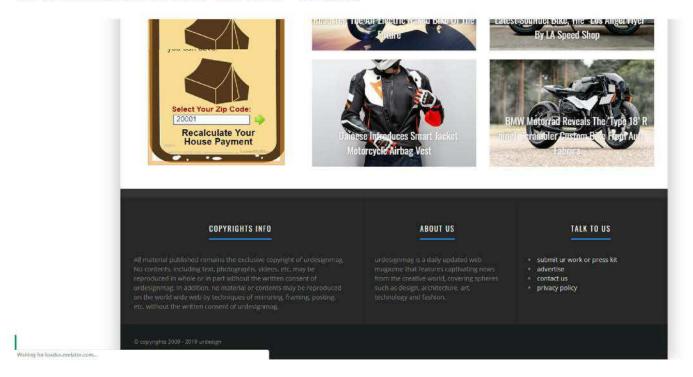


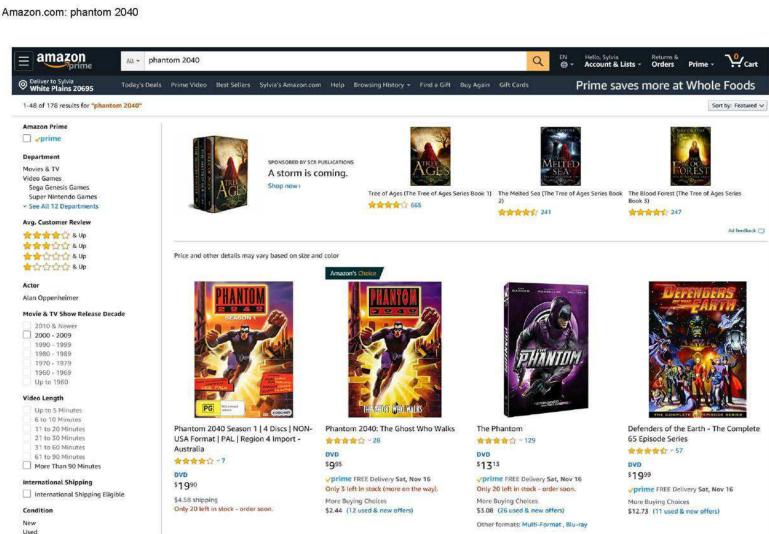
















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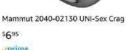
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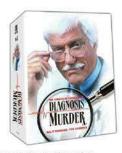


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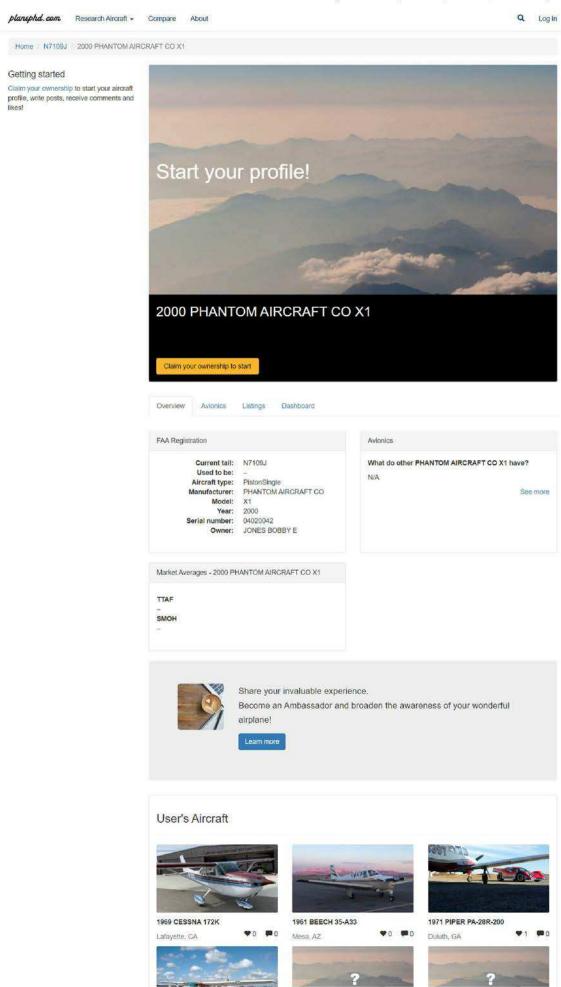




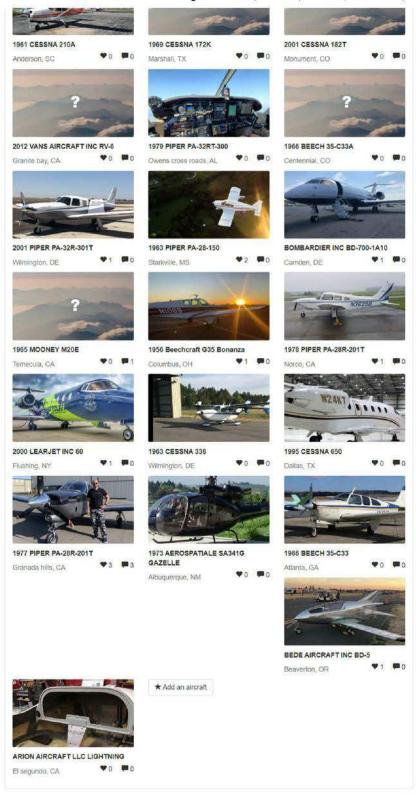
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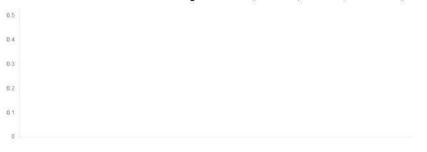
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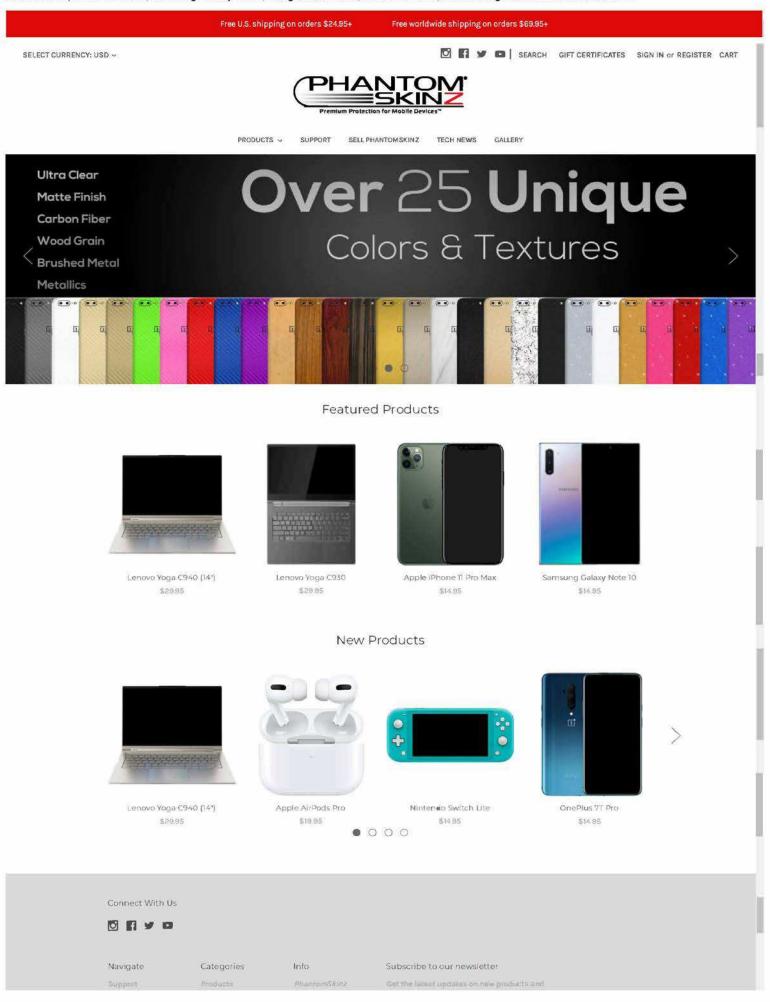


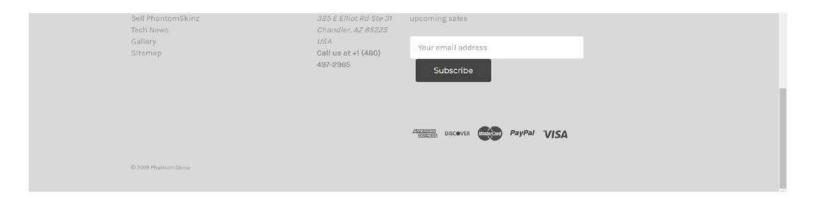
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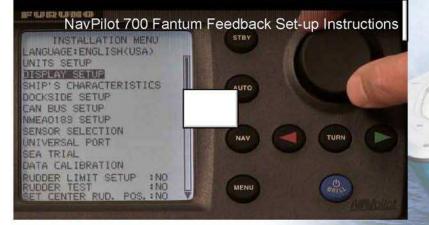


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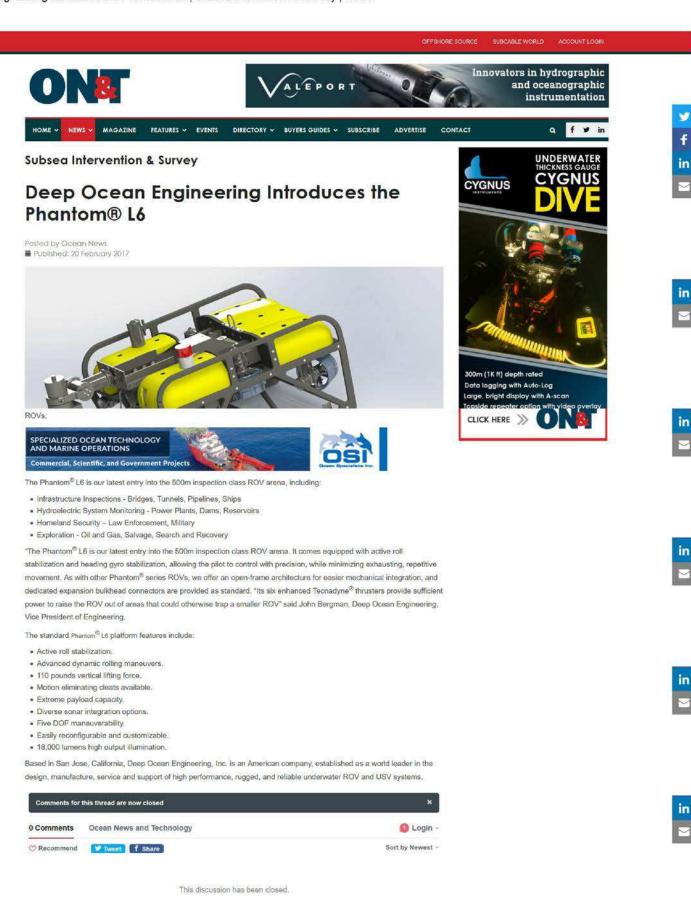
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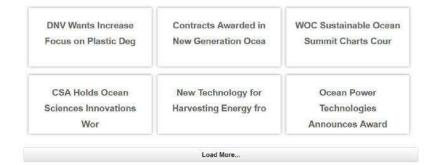
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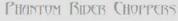
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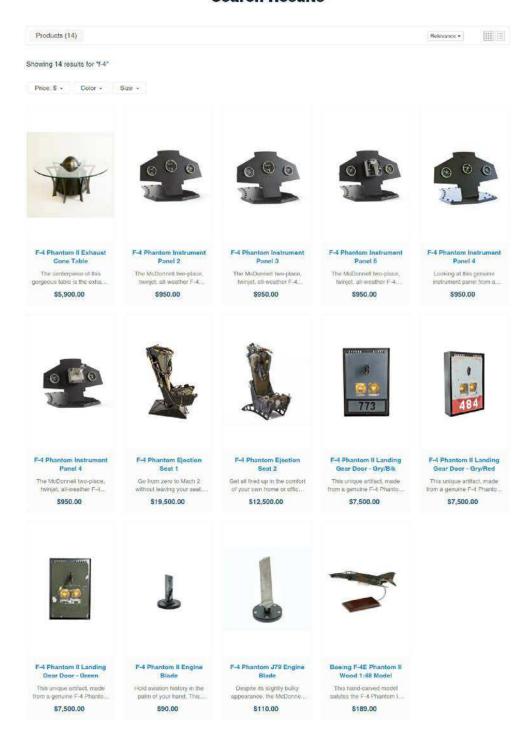
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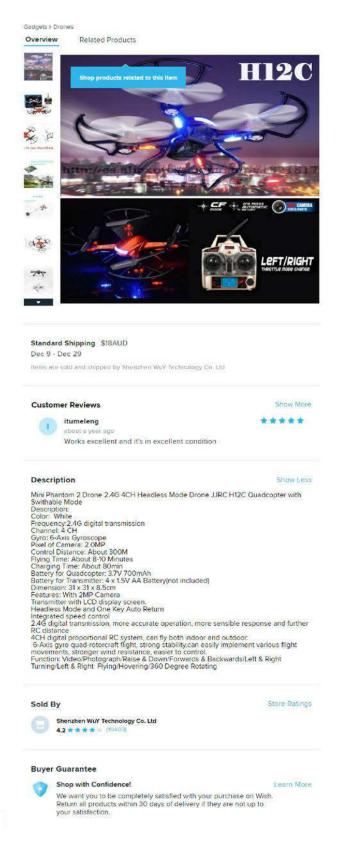
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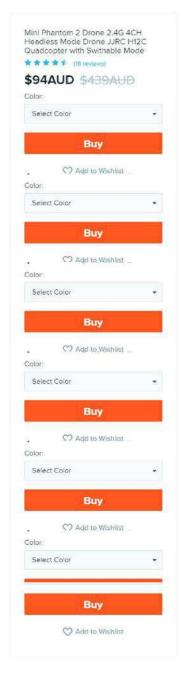
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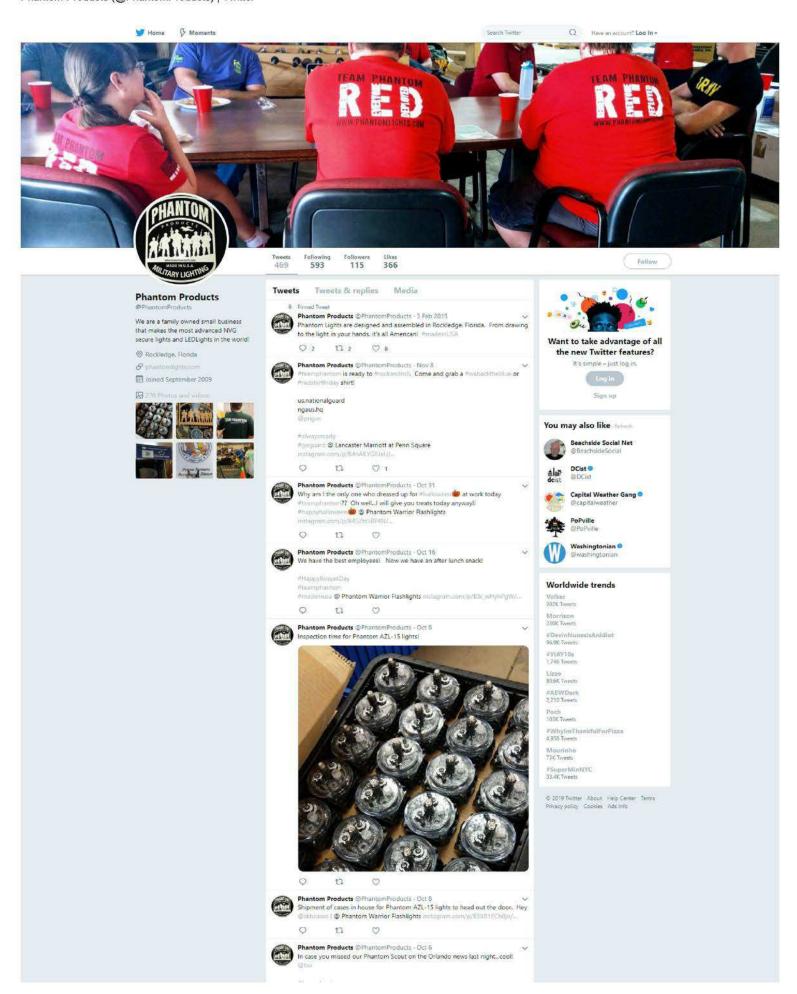


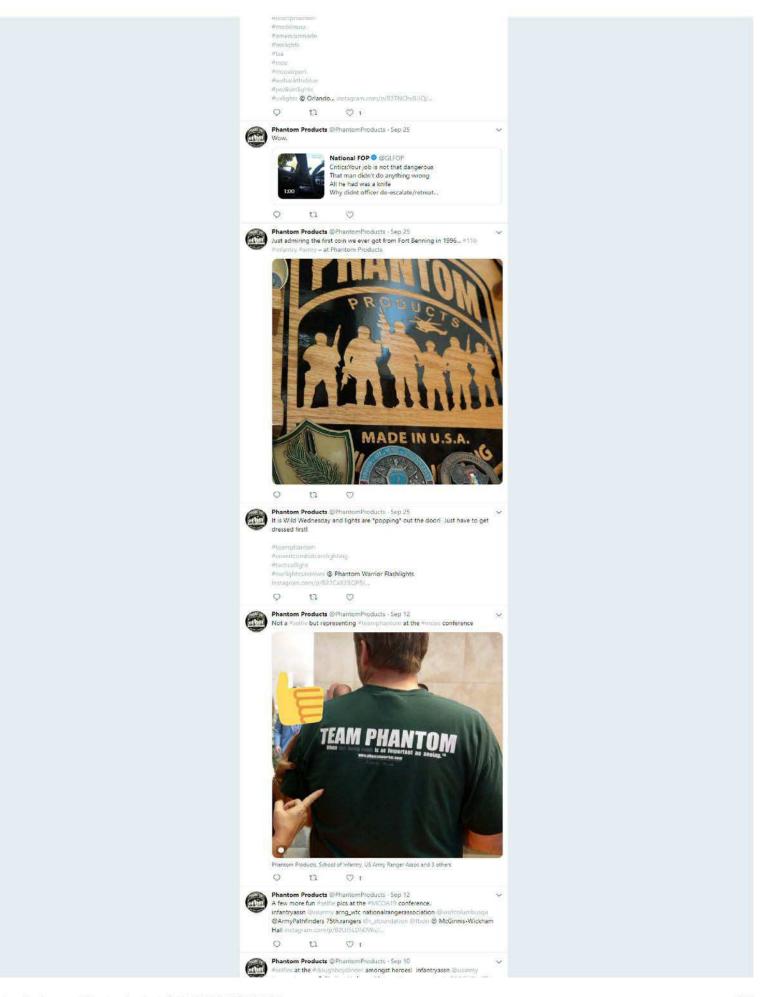


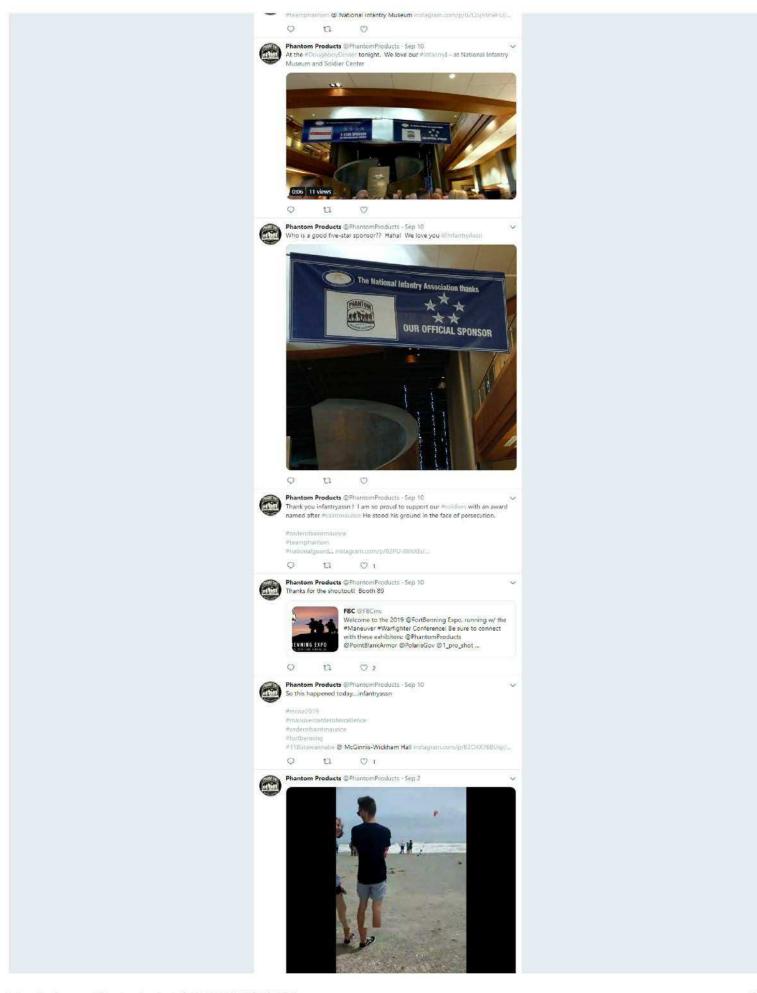




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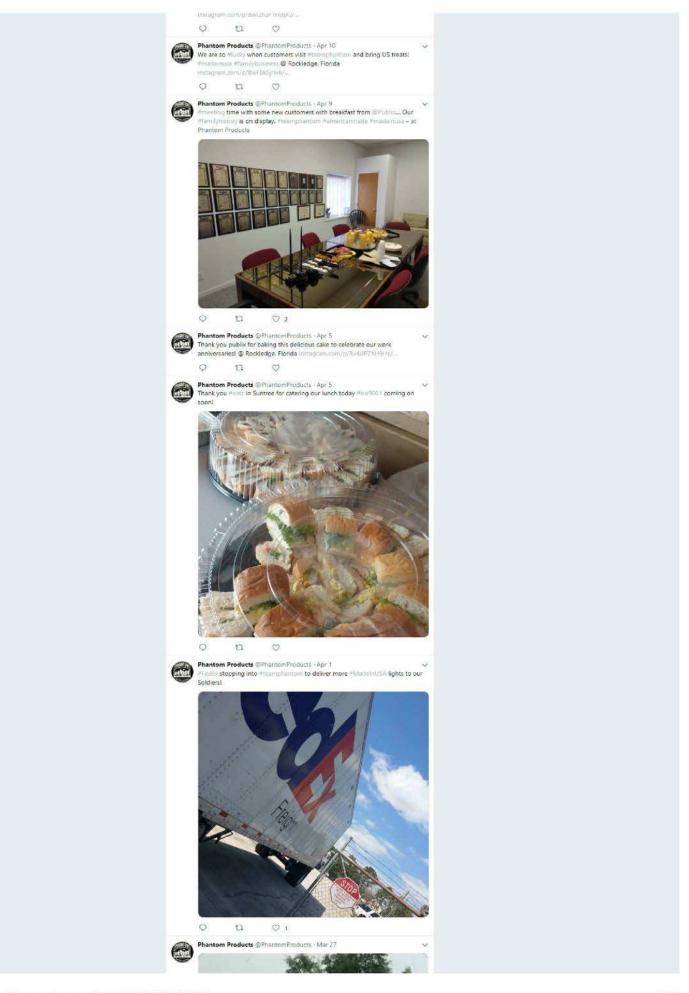


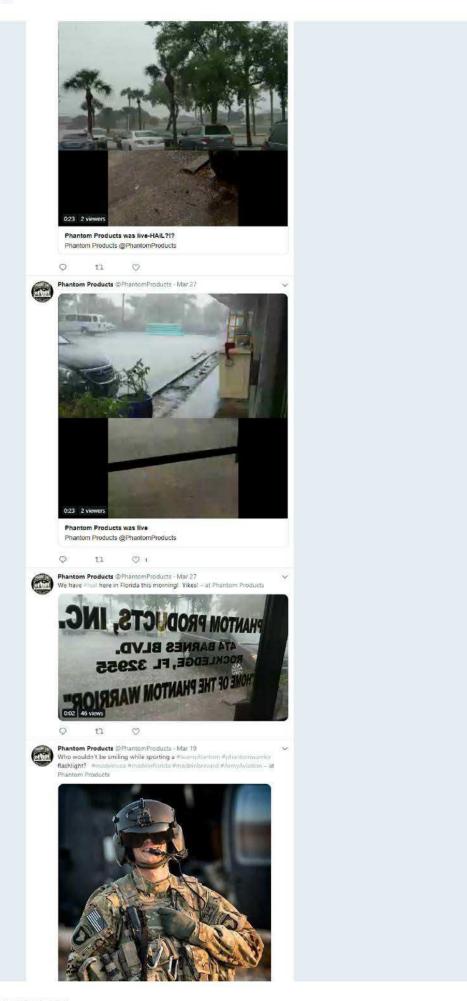


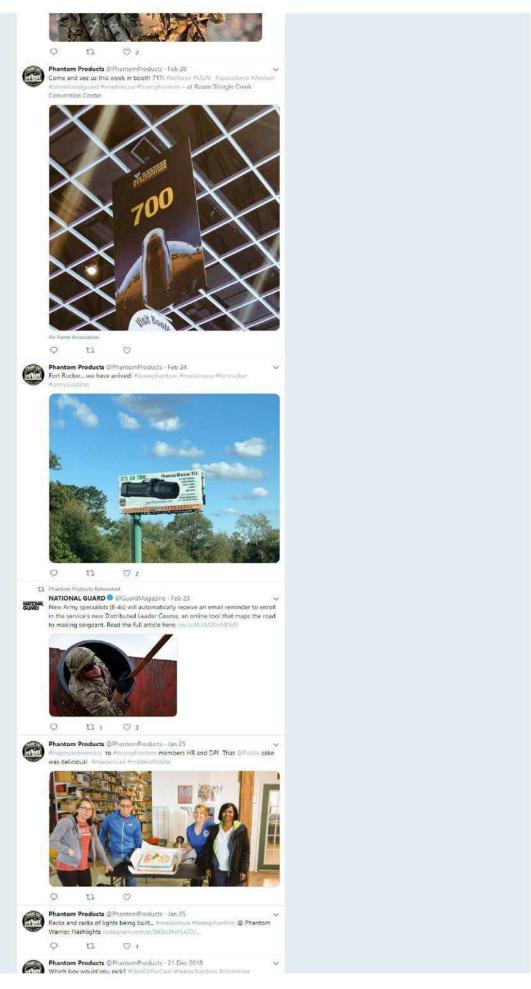


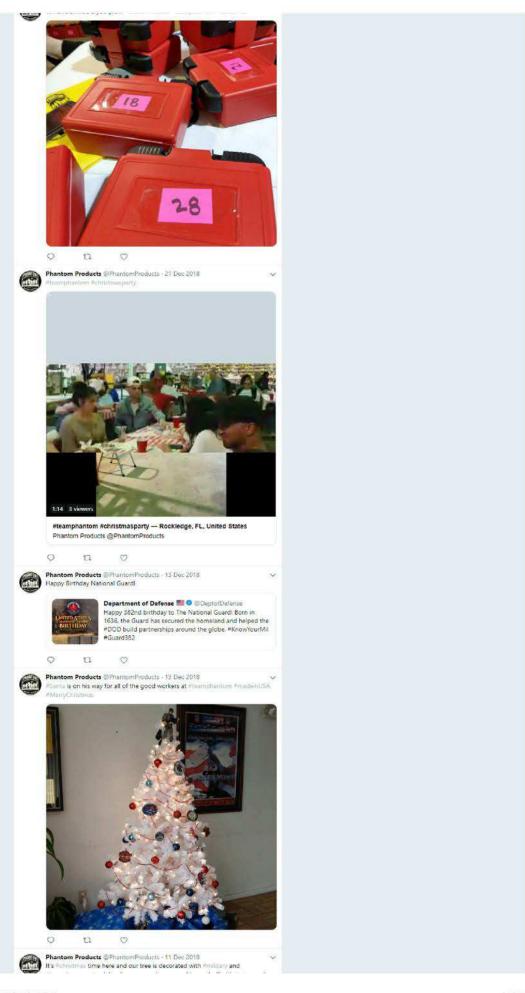


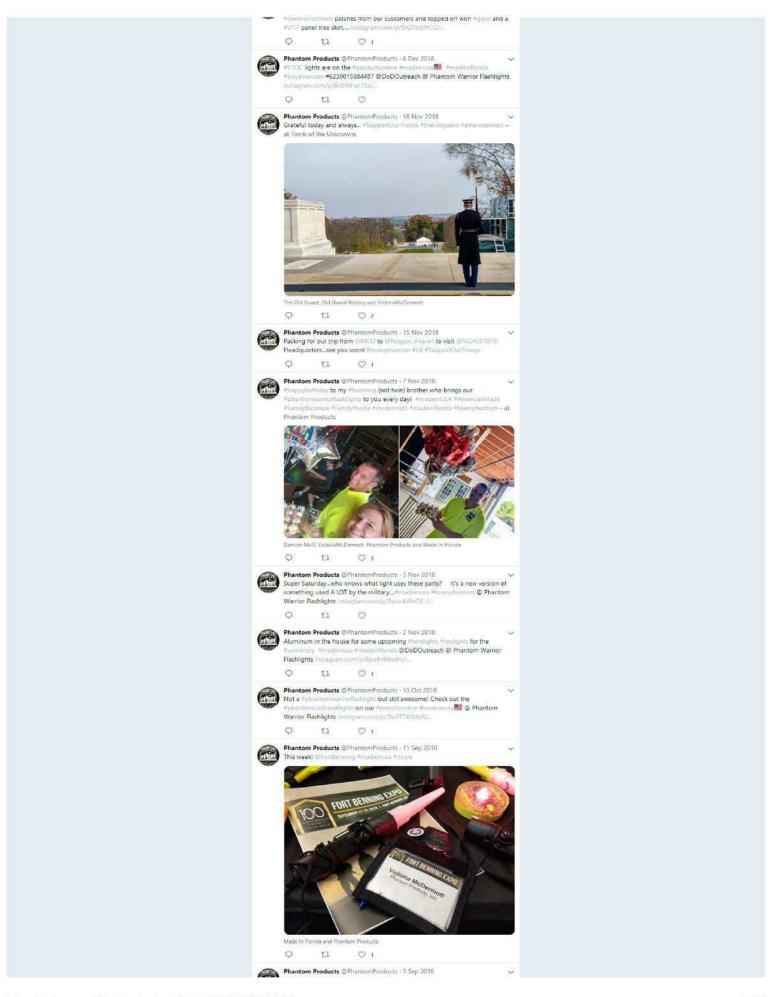


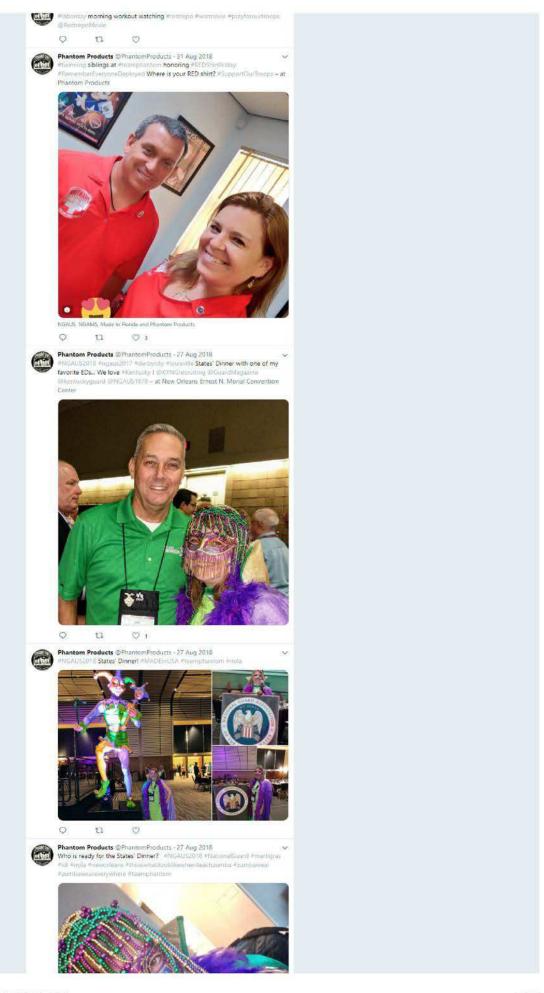


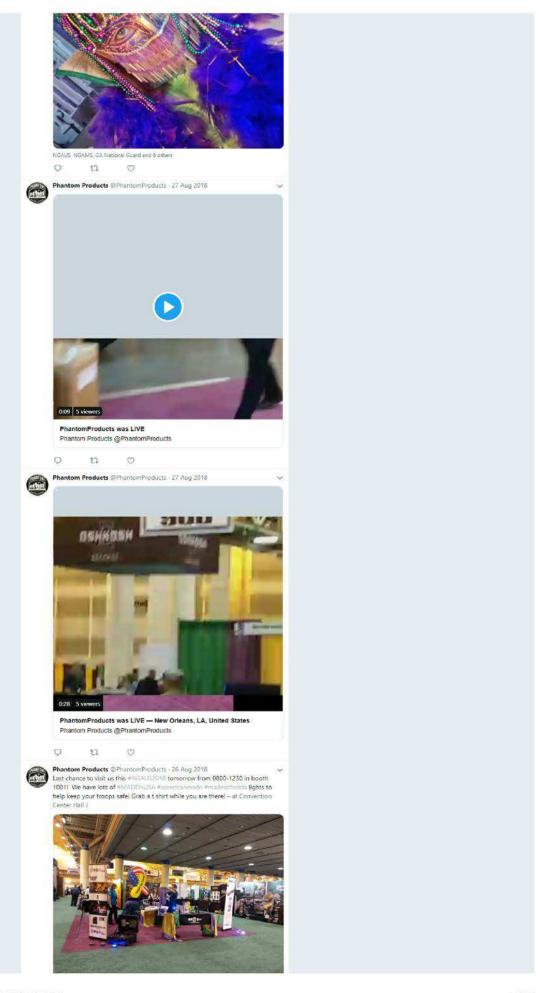




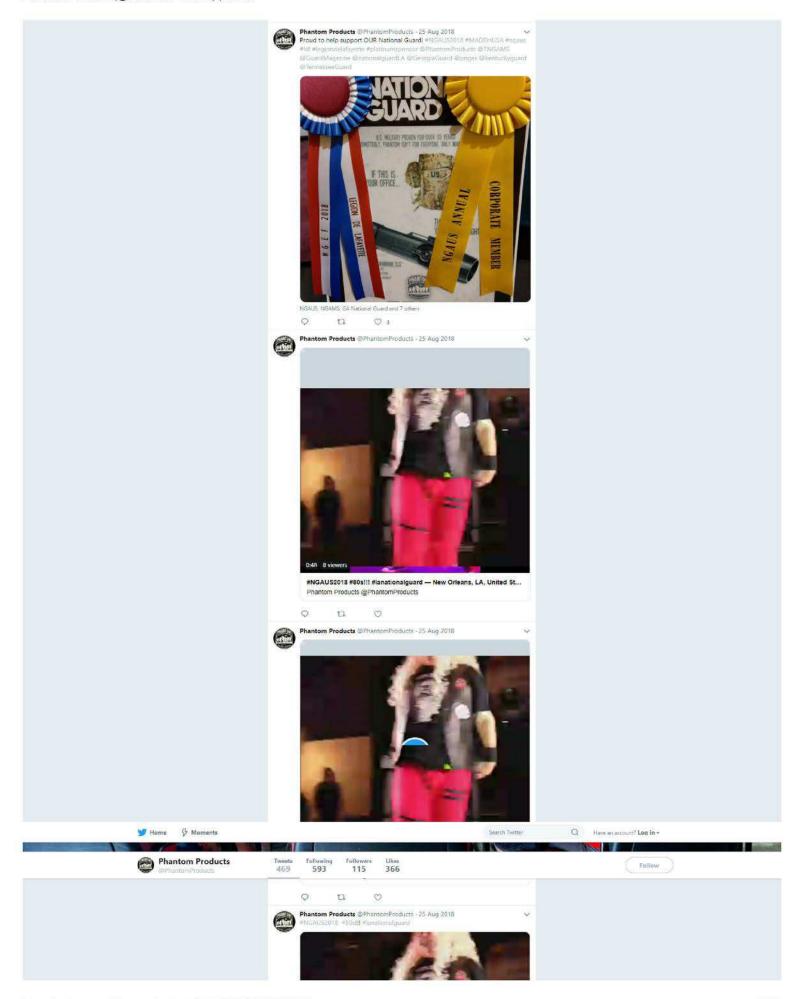


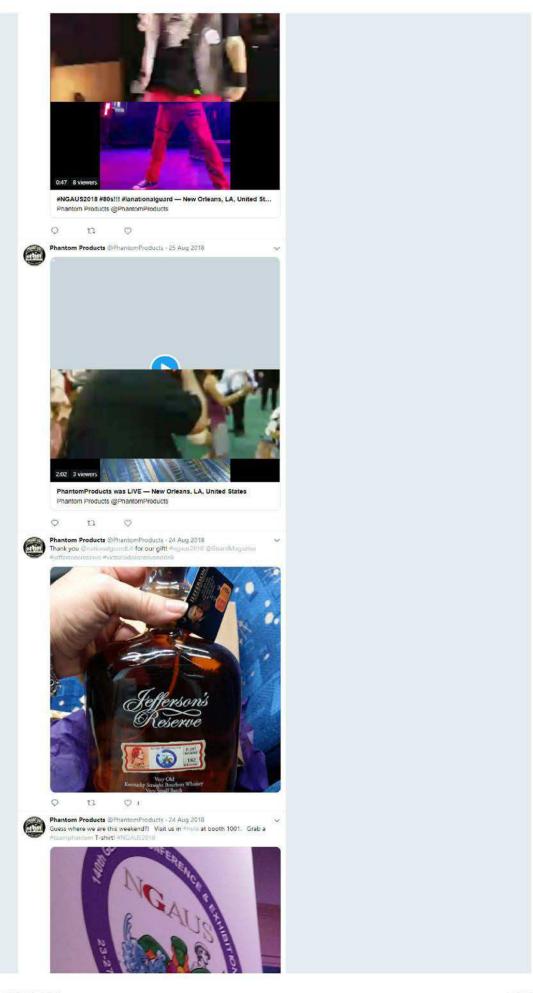




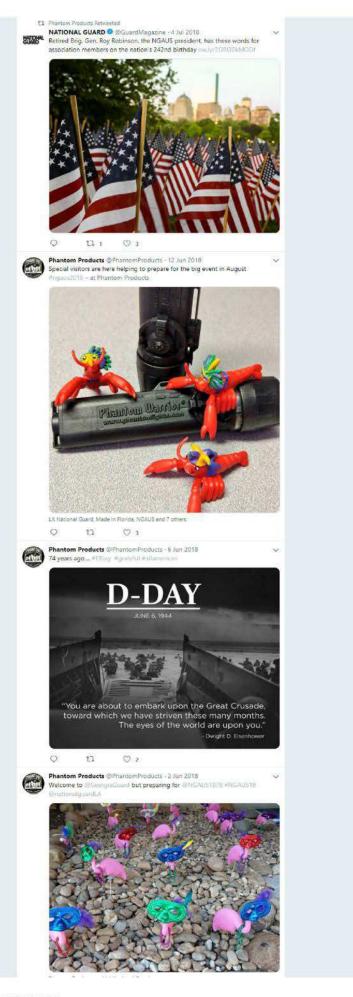


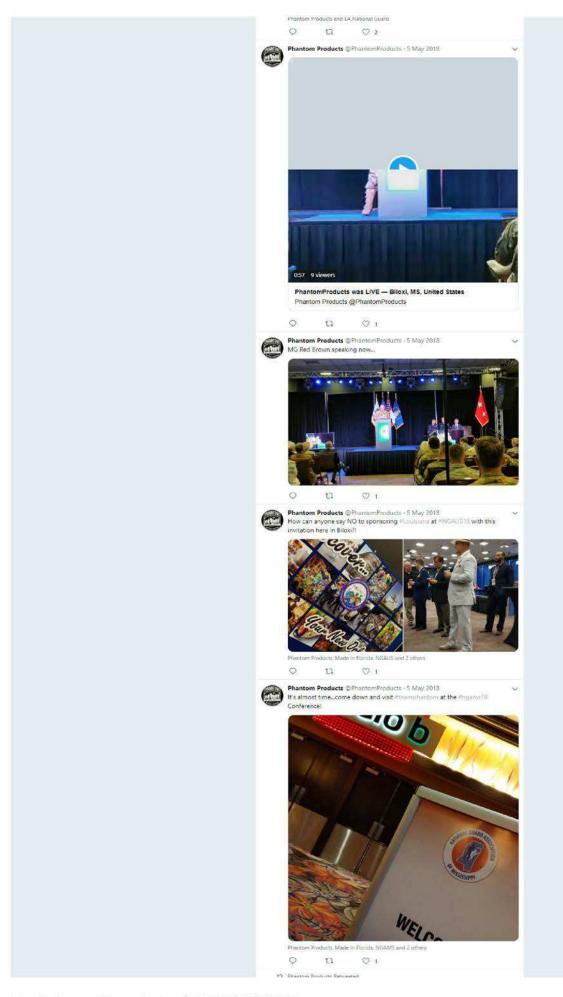


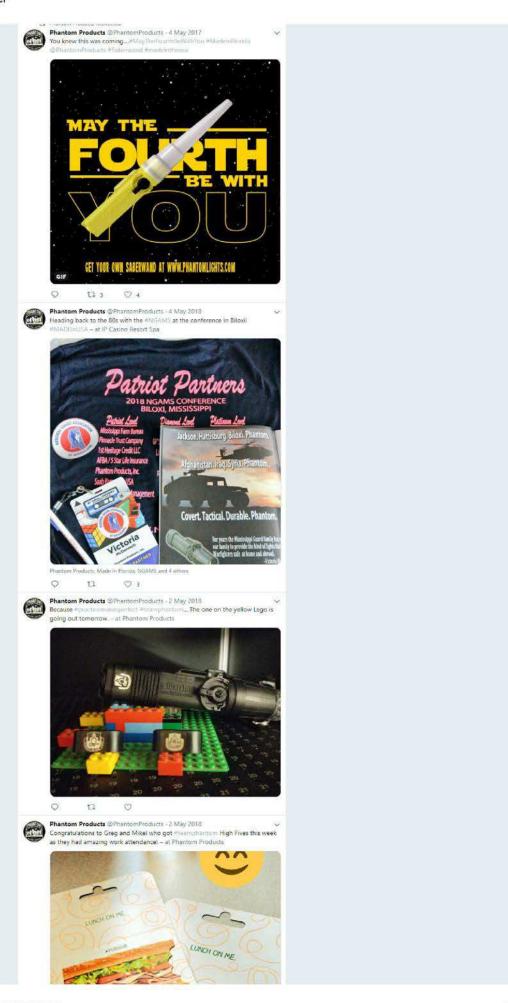


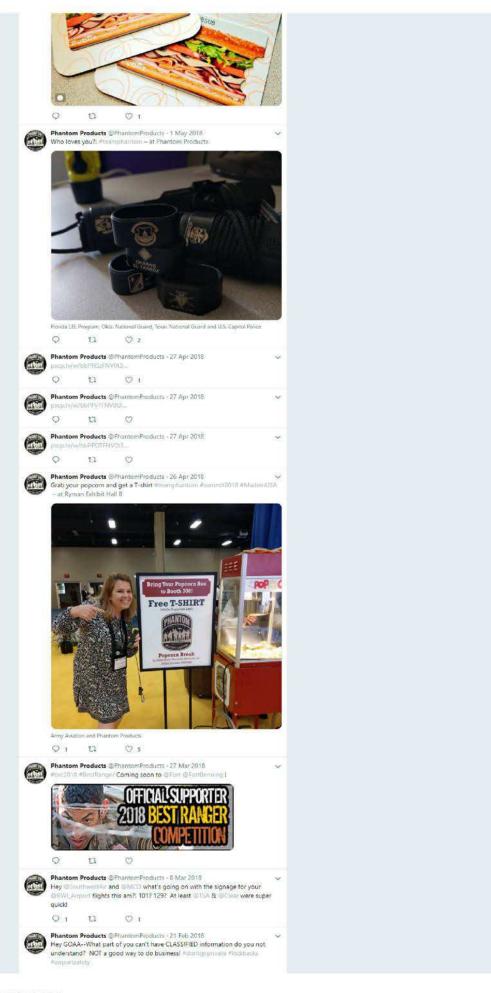


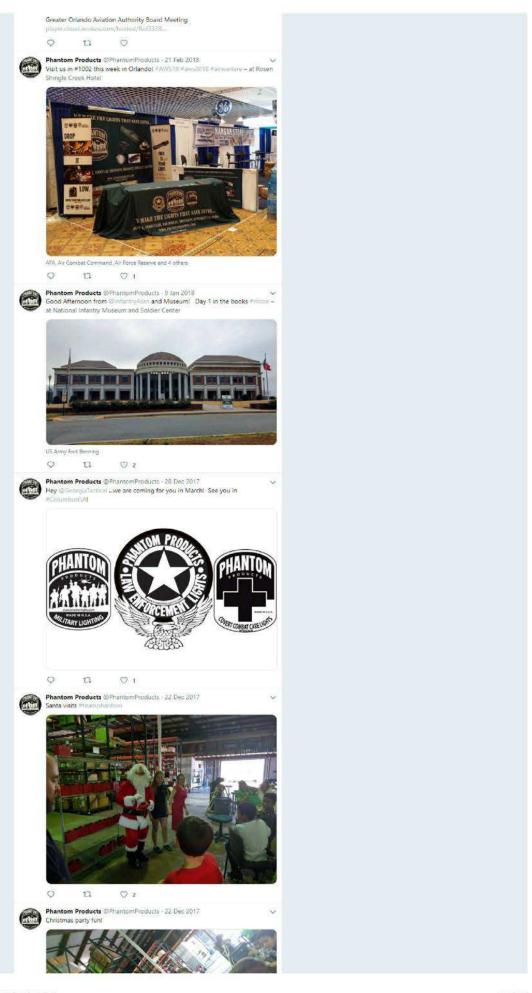


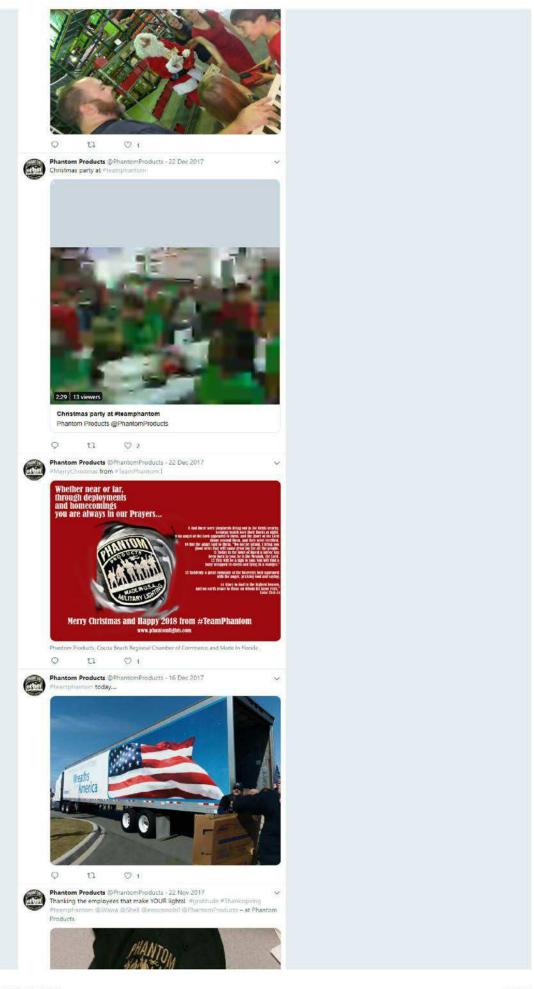




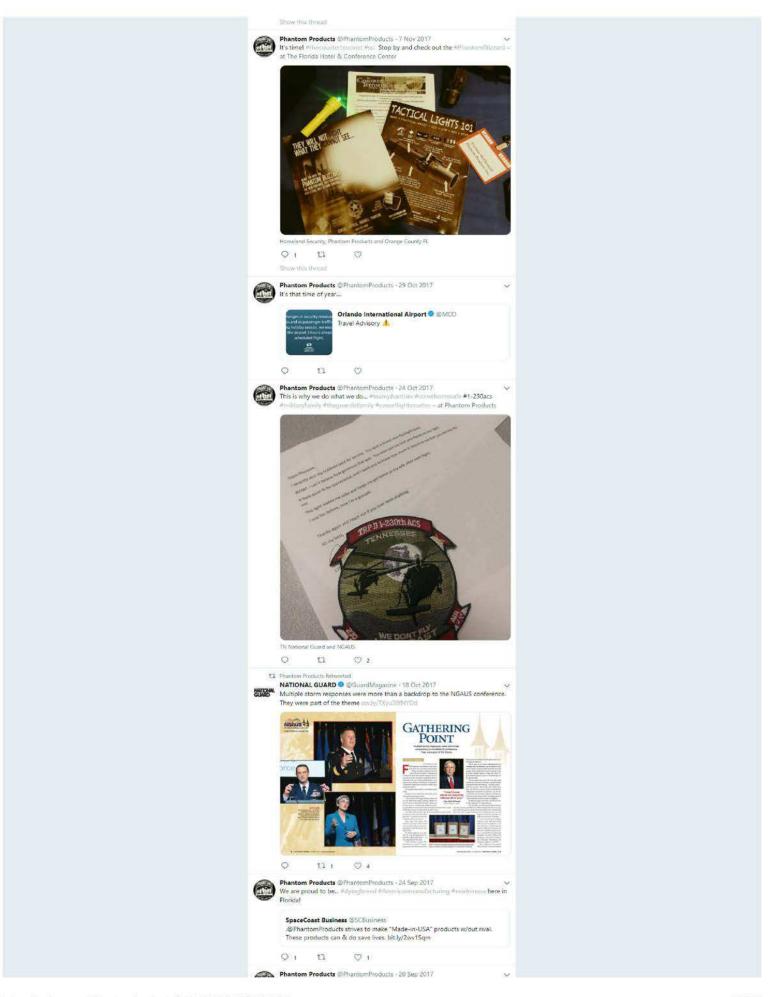


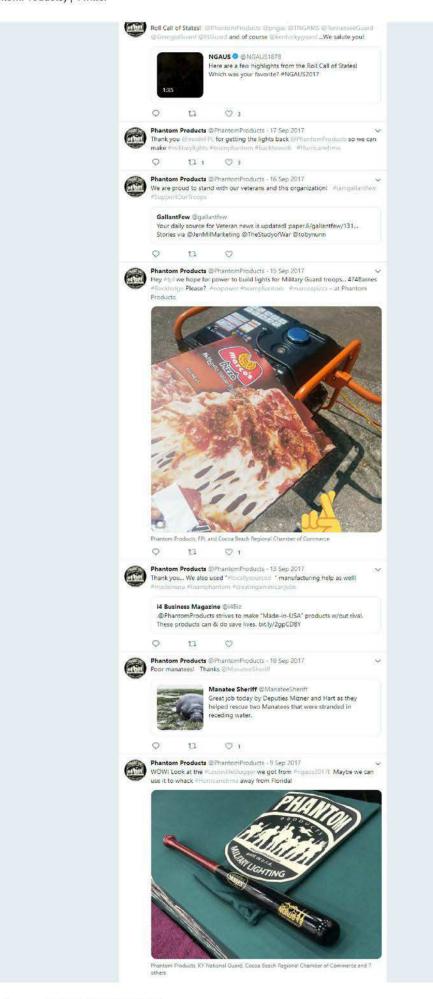


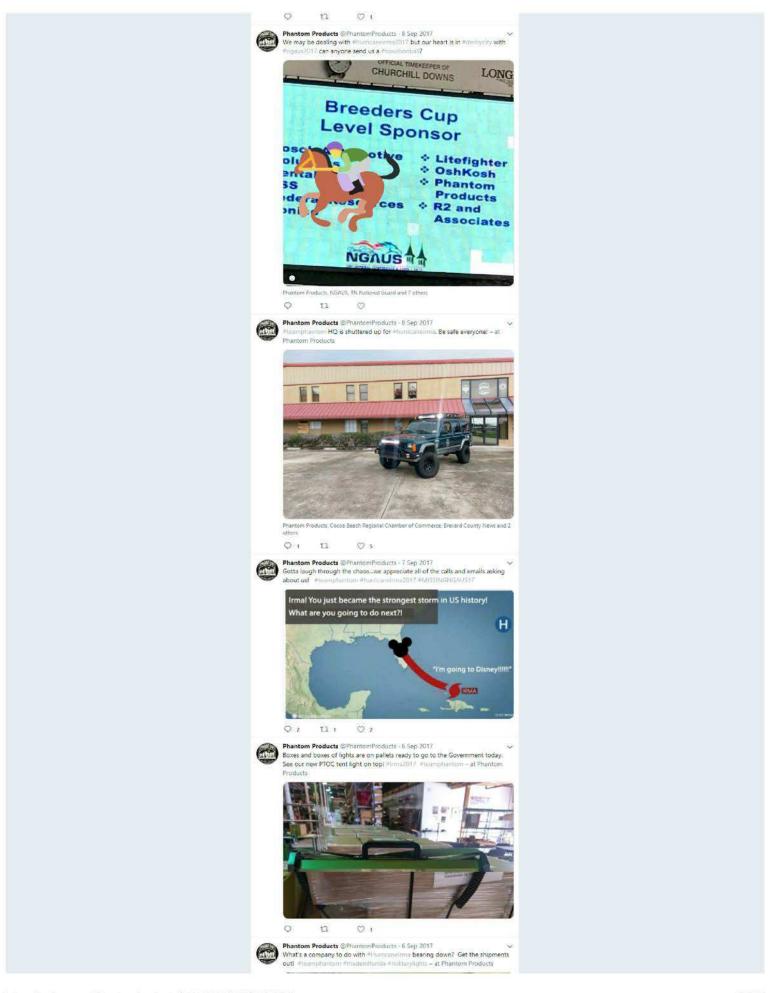


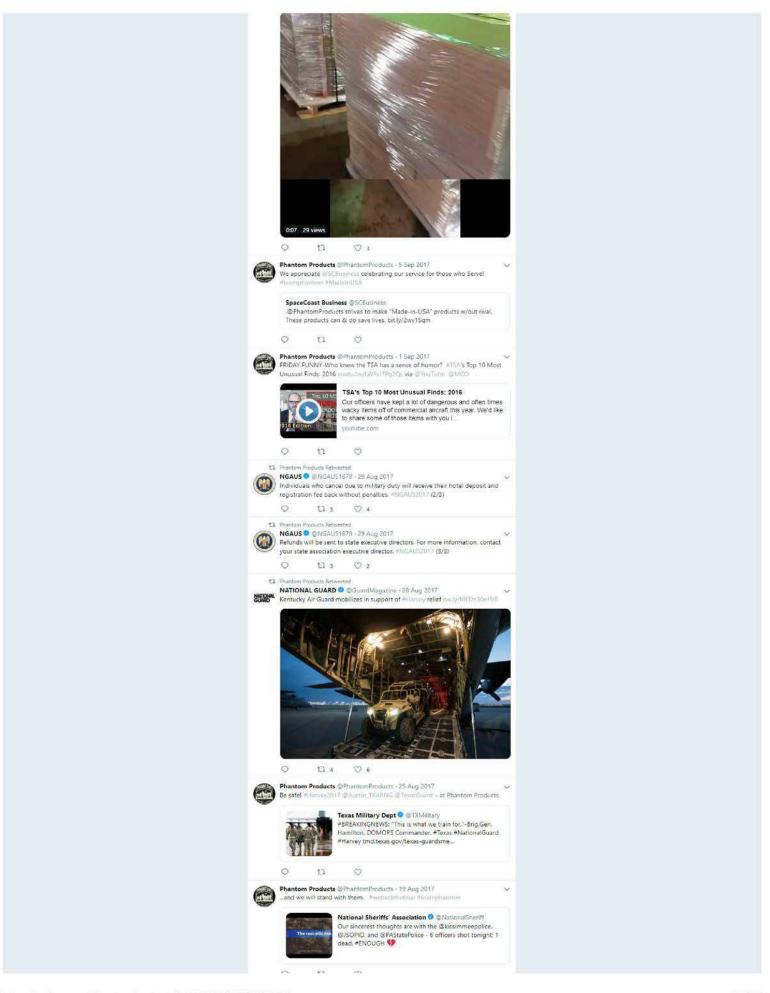


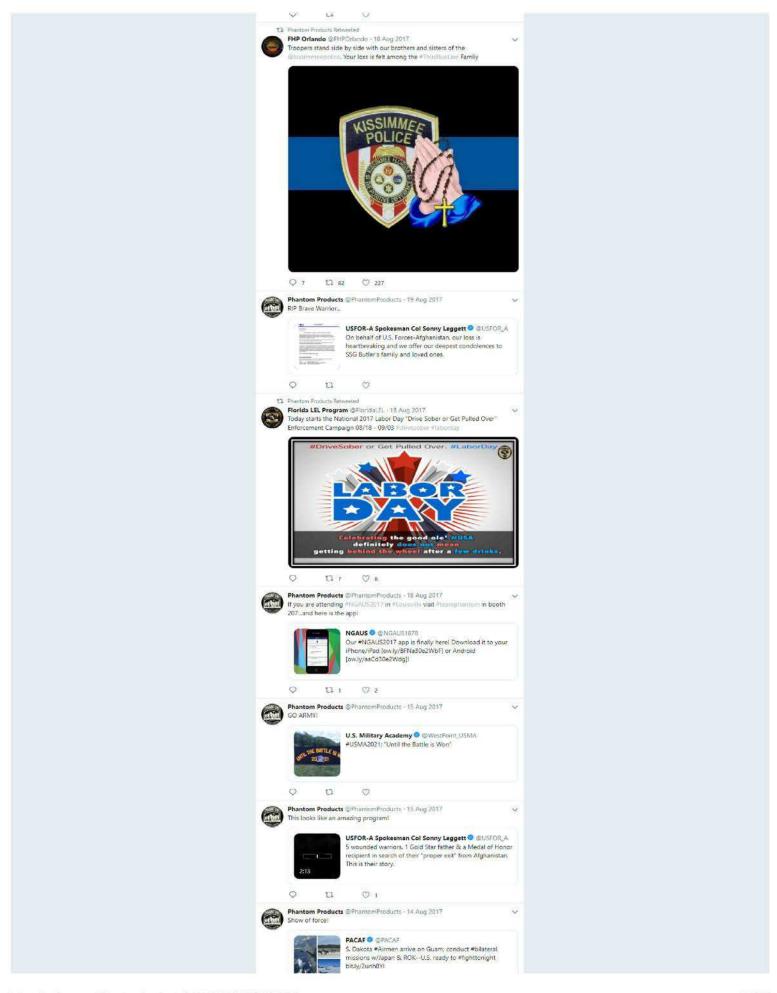


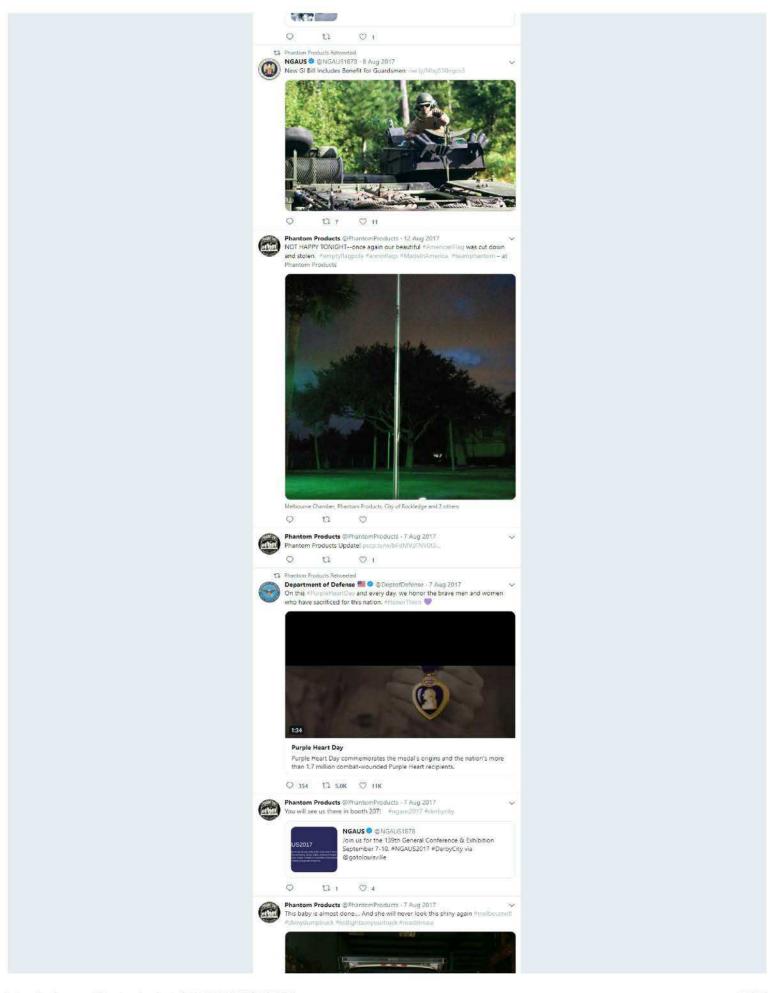






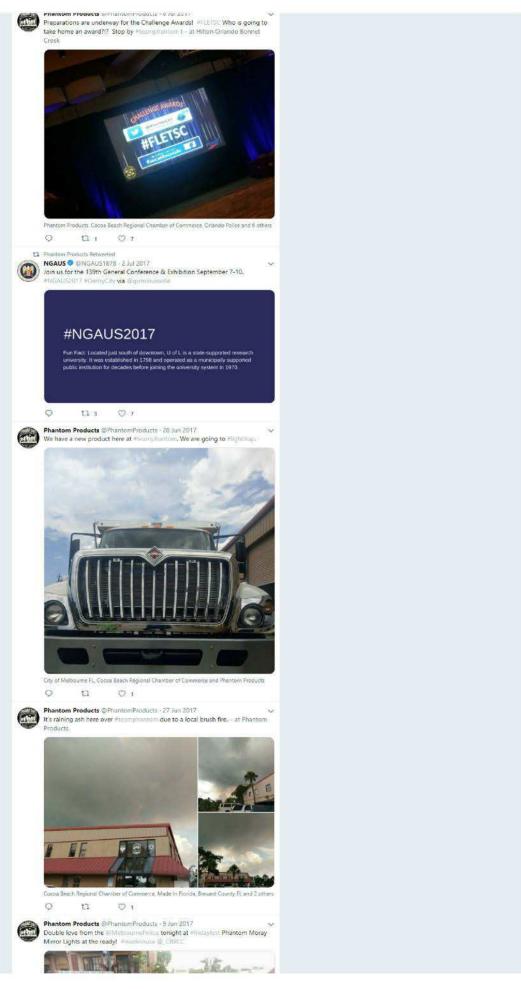


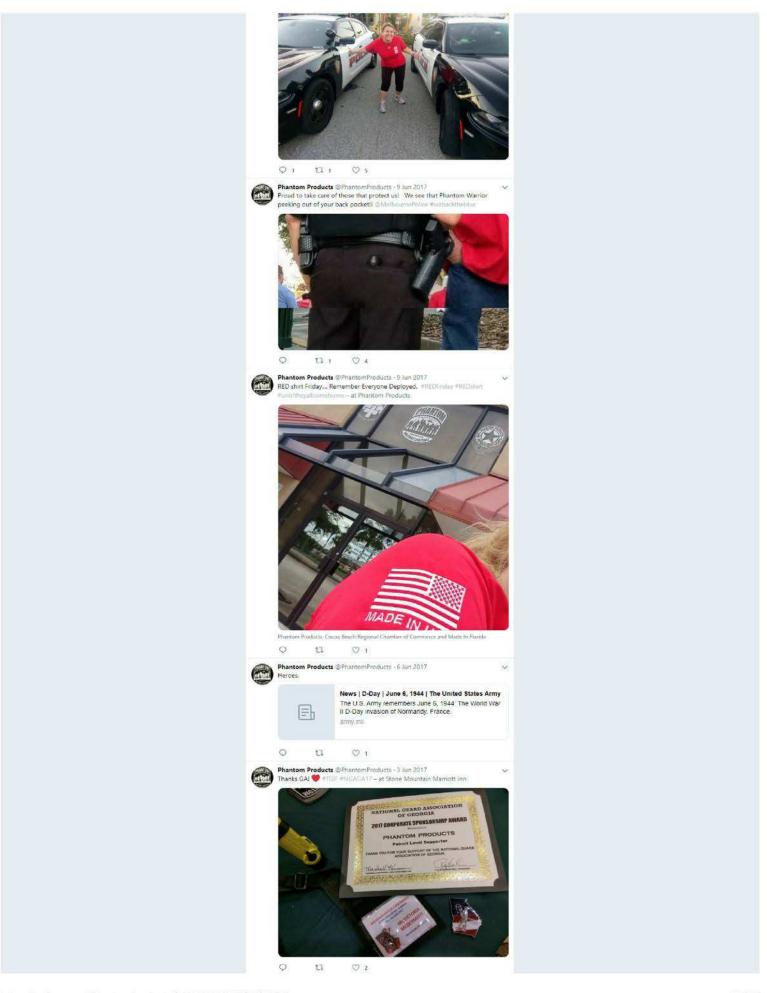




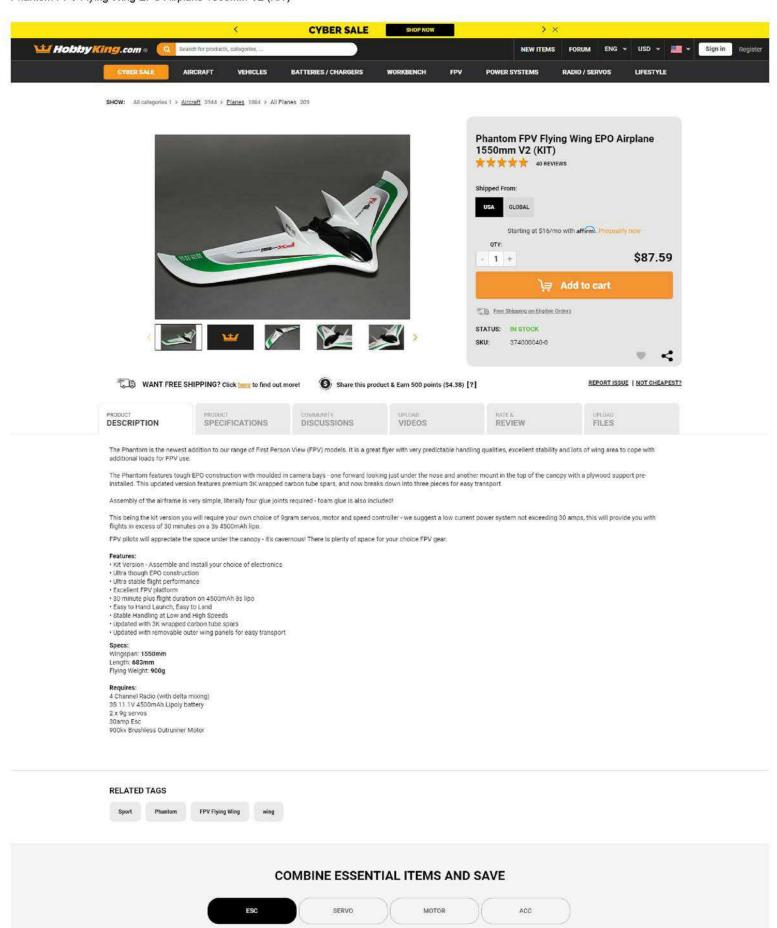












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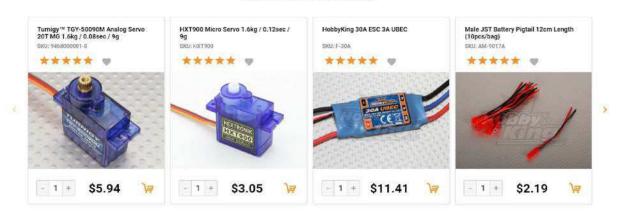
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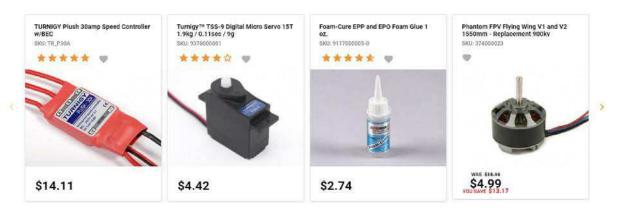
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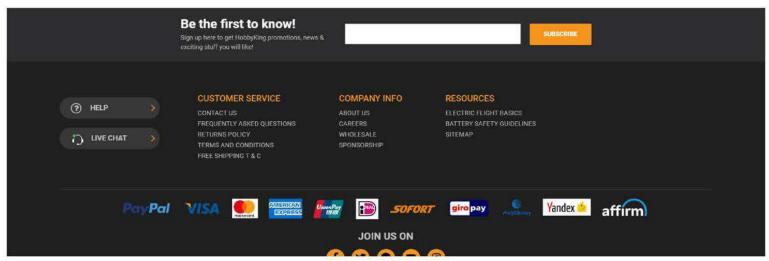


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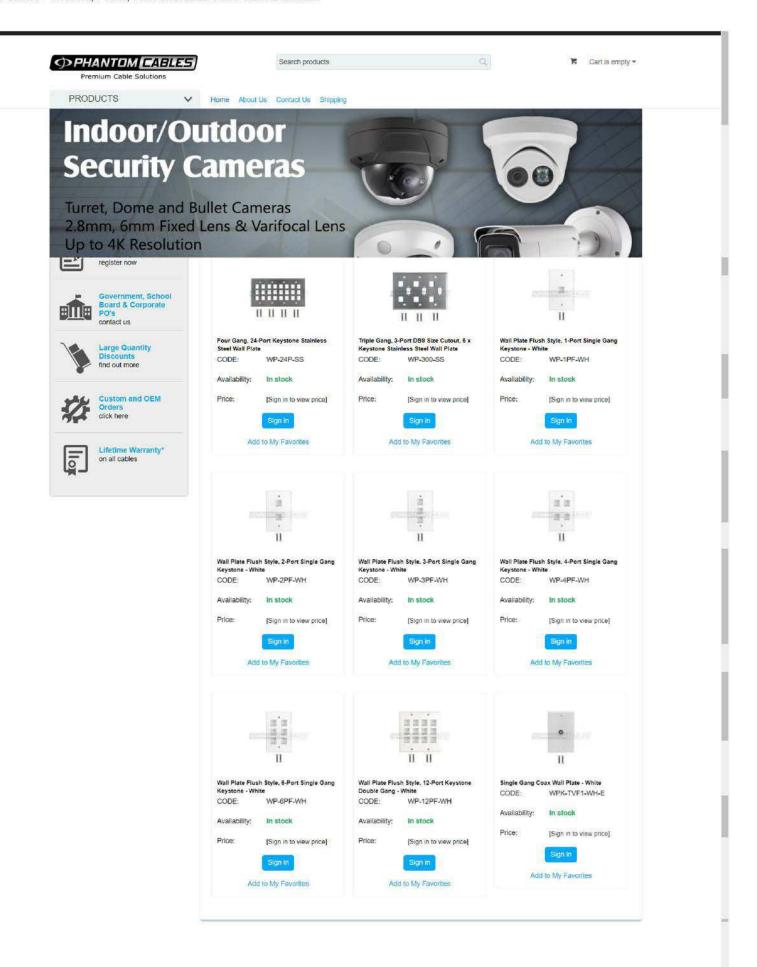


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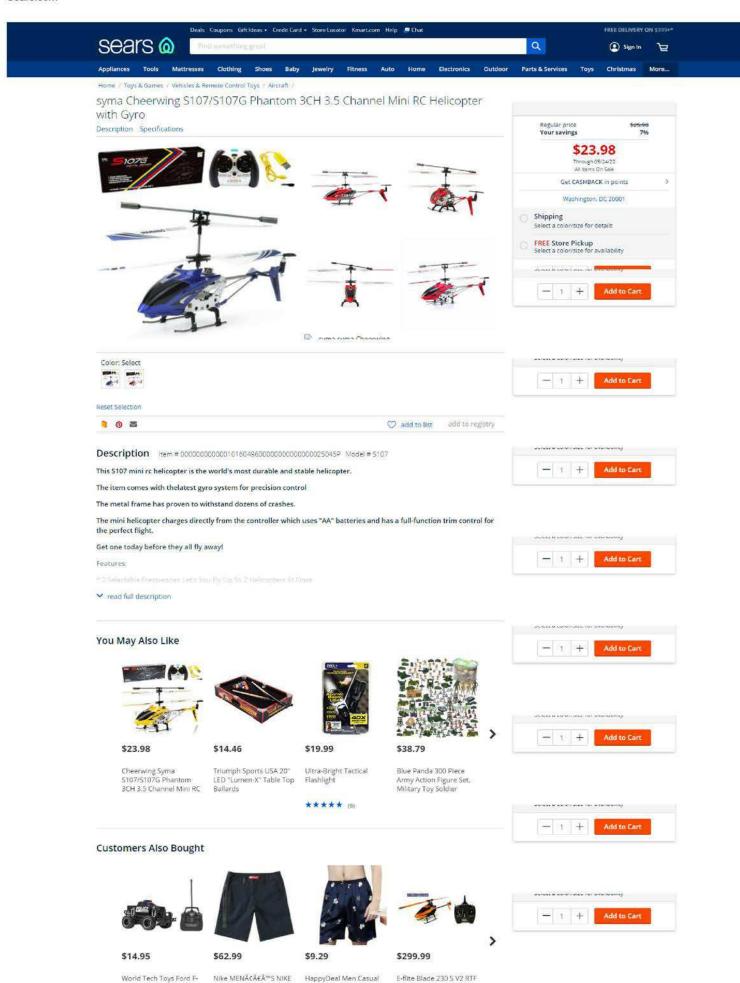


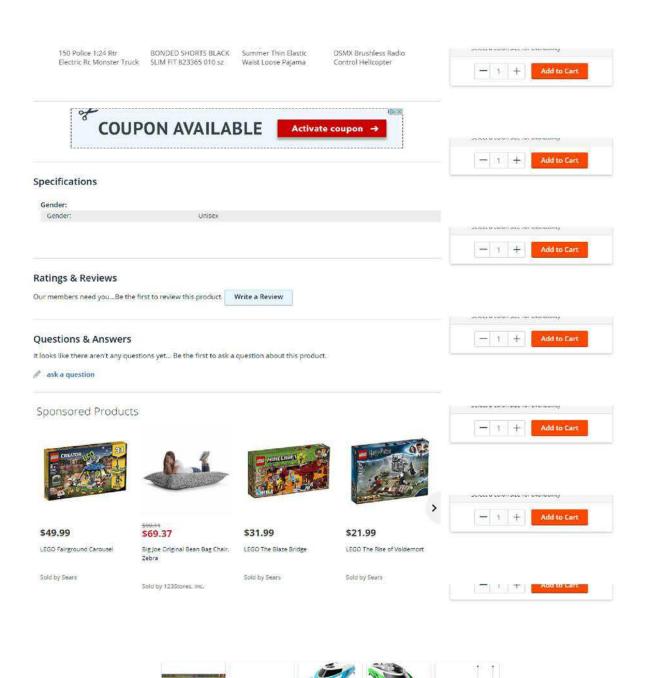


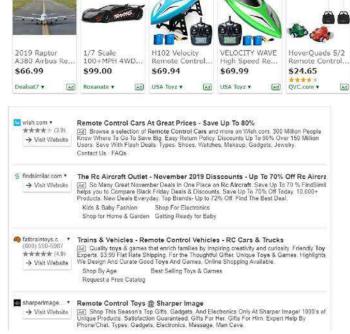






















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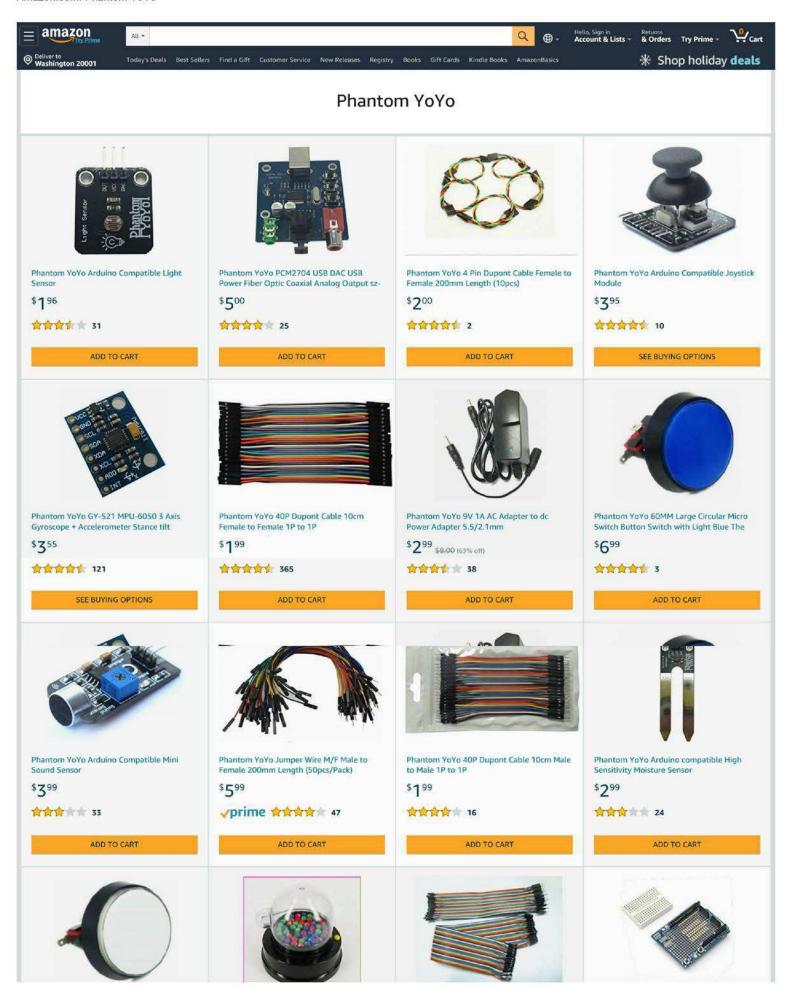


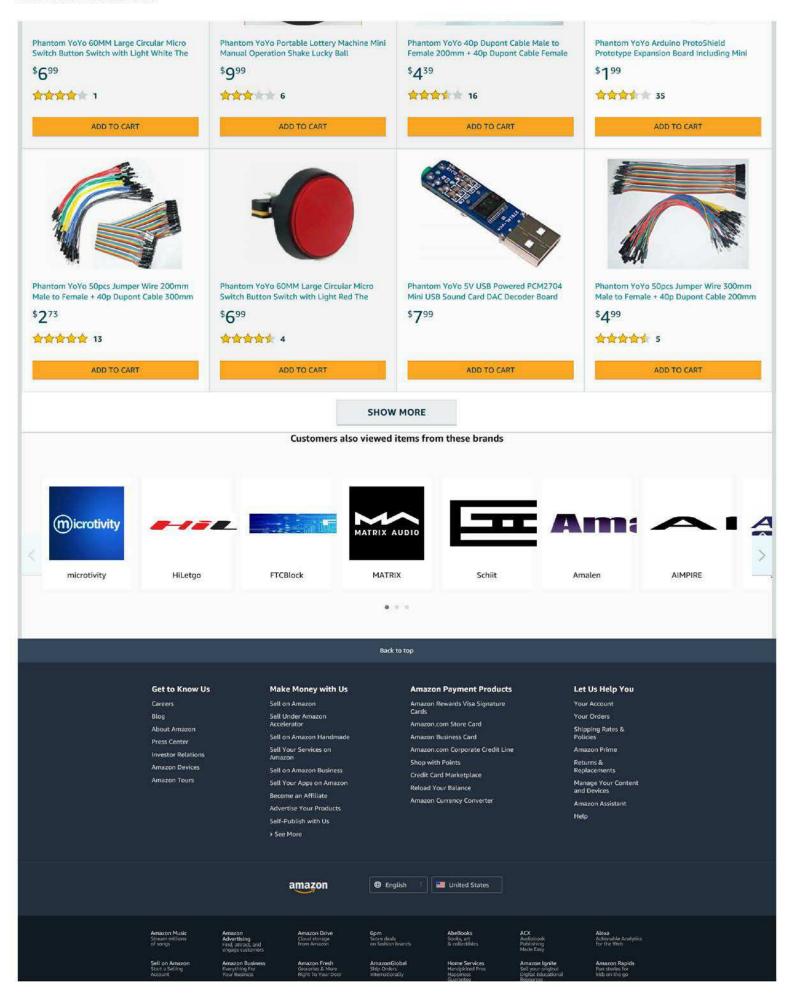
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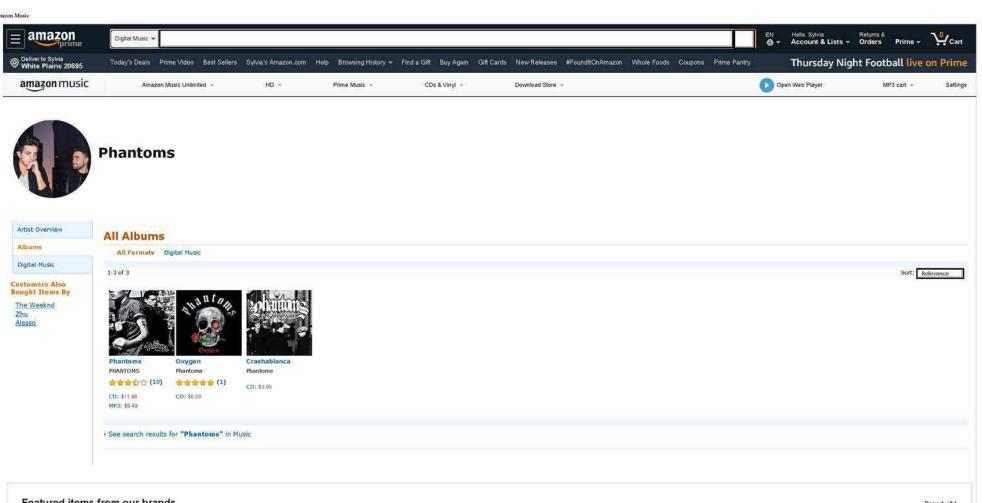




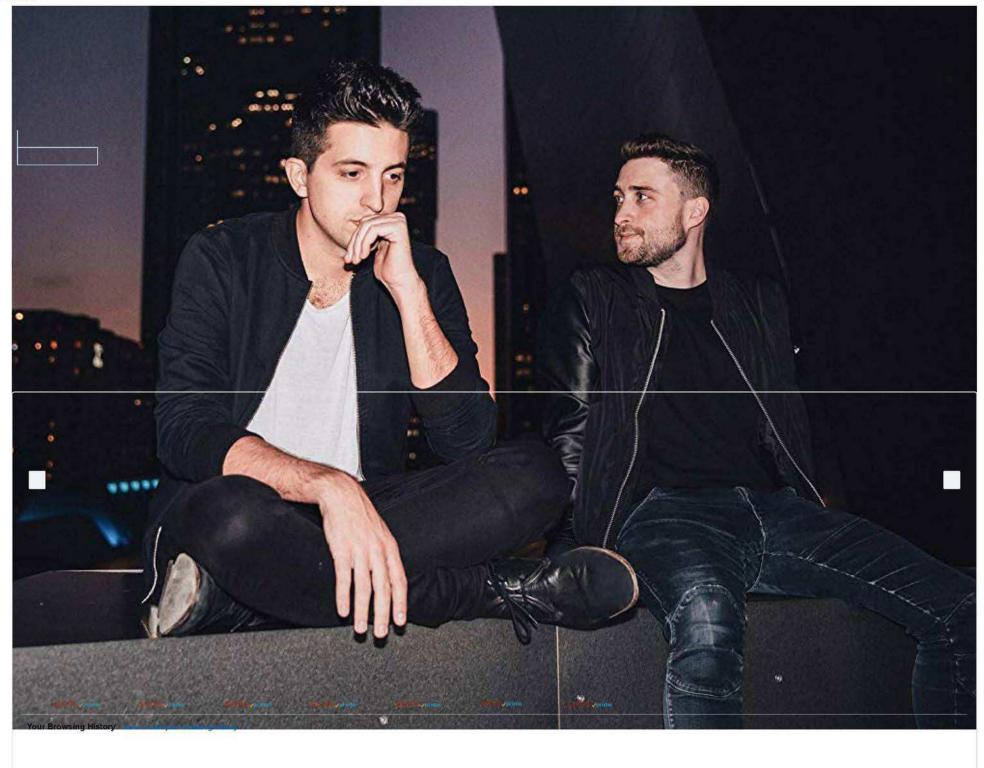




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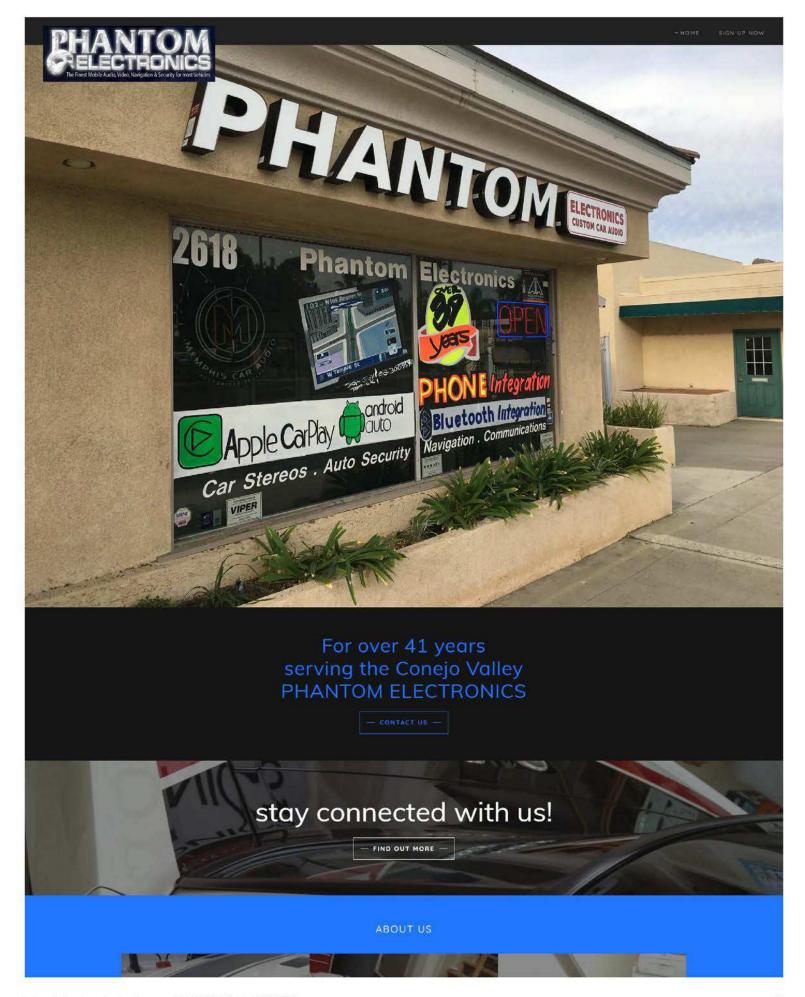


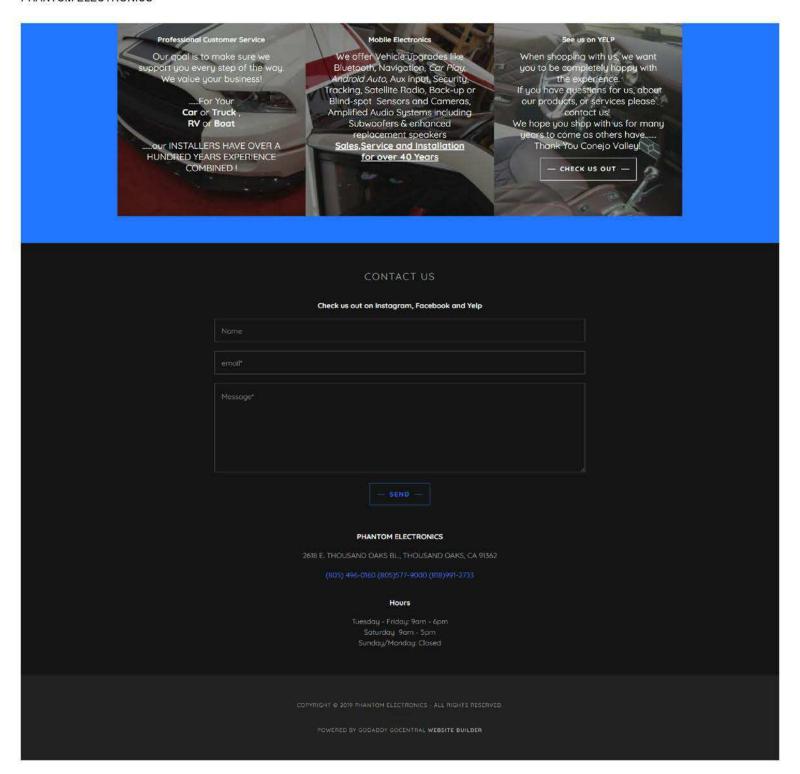


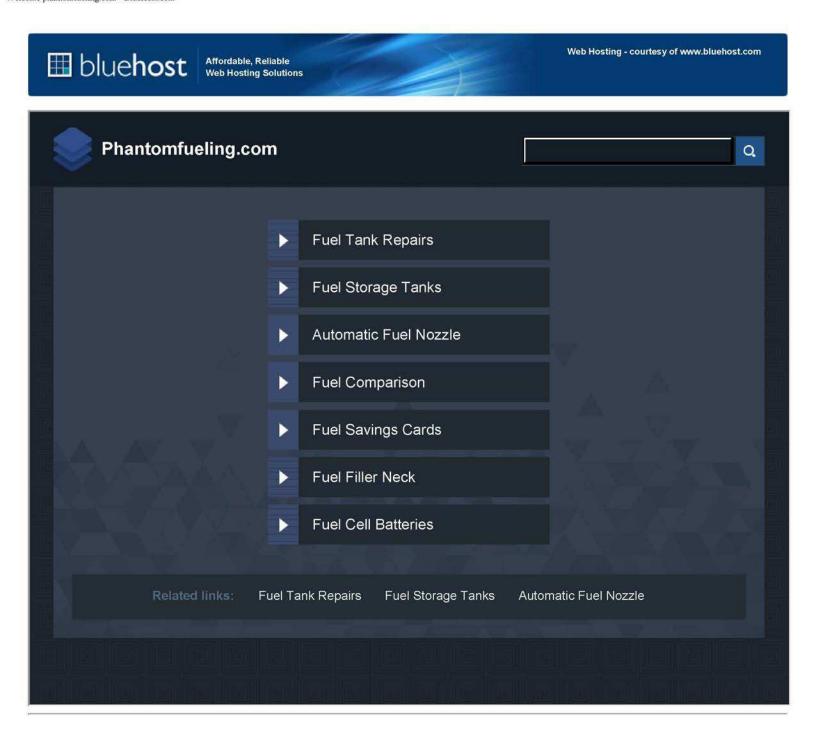




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Sea Phantom: 70mph Boat Flies Above the Waves



Boats are slow. Water drags on a moving body much more than air, which is why hydrofoils and catamarans go so much faster than conventional hulled boats: Less of them touch the speed-sapping water.

The Sea Phantom is a prototype high speed boat which almost flies above the water. The body is shaped into an aerofoil to provide lift, a kind of an upside down wing, which uses the ground effect to push it down onto the water. It's that same way Formula One race-cars hug the ground for grip. Two fully sprung and damped "foils" push against the water, keeping the hull in the air stabilizing the hull and absorbing bumps in rough seas. Think beach buggy for water.

The Sea Phantom uses a regular outboard motor but the lack of drag means it can reach speeds of 70mph, with a 100mph version expected soon. Still in development, the Sea Phantom has been evolving since boat designer David Borman, who made his first boat at 12 years old, came up with the idea.

Future versions will use jet turbine engines and there are civilian pleasure craft on the way, priced at \$400,000 to \$600,000.



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UPDATE: Several comments have pointed out that 70mph is not a big deal for a boat. What is a big deal is doing 70mph with a low powered outboard; it's all about the efficiency. Instead of burning fuel to shove its way through the water, the Sea Phantom glides up away from the drag.

Also, I made an error. There are in fact two kinds of ground effect. The one which pushes down is the used by cars to get better grip. The other kind causes a drop in drag as an aircraft nears the ground. This is the one used by the Sea Phantom.

www.youtube.com/watch?v-

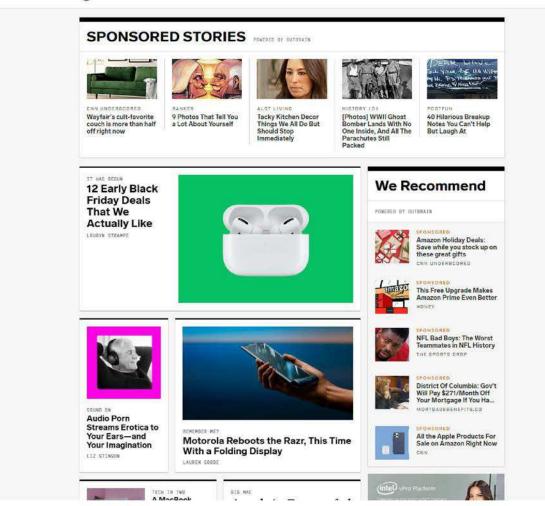
Product page [Maritime Flight Dynamics via Neatorama]



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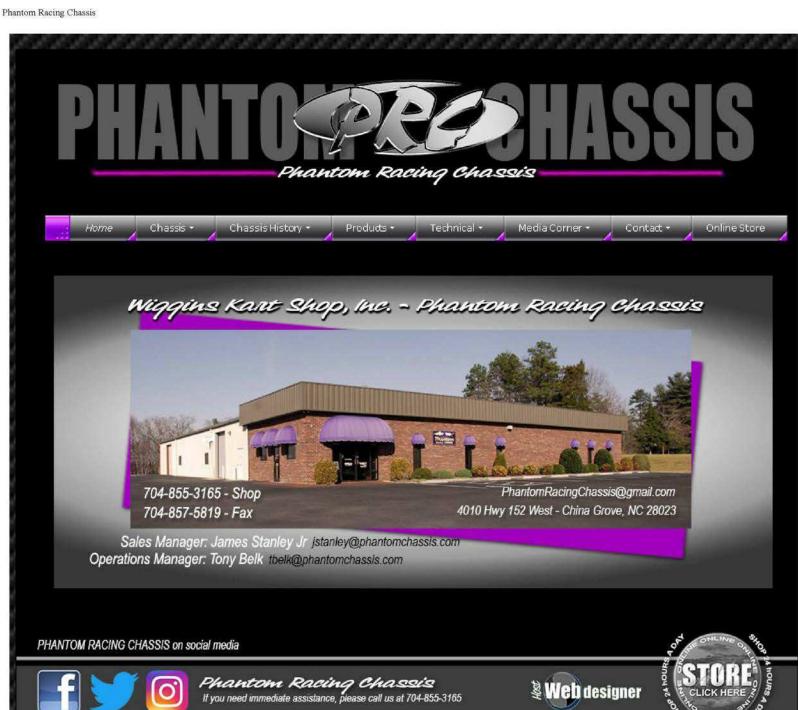
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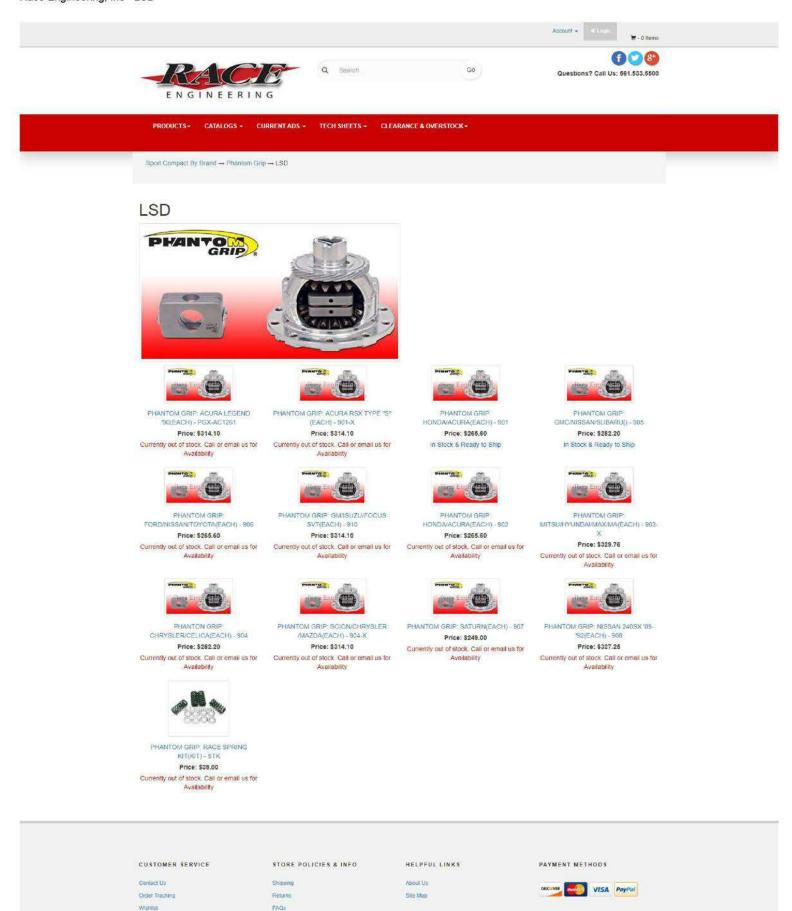










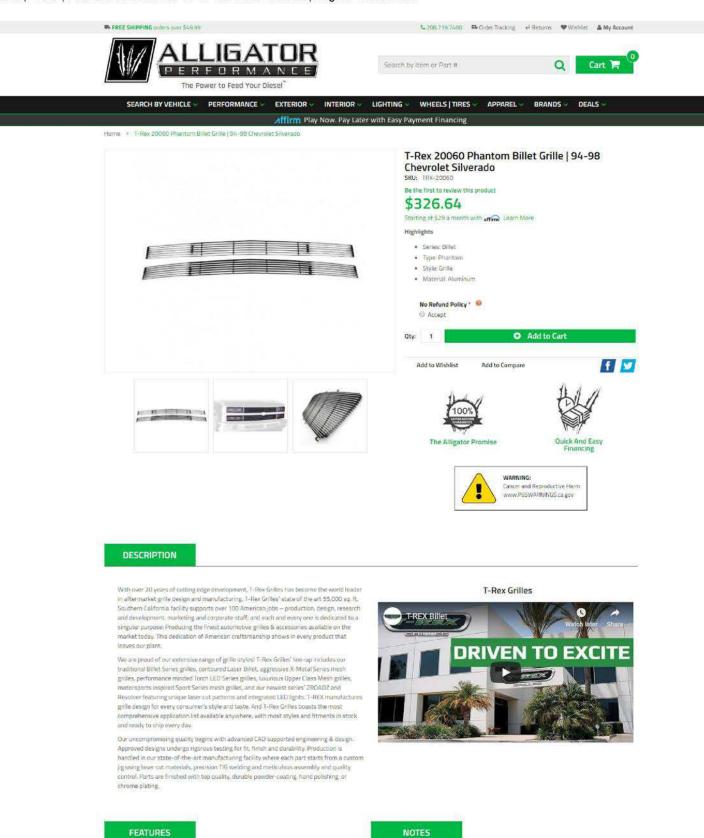


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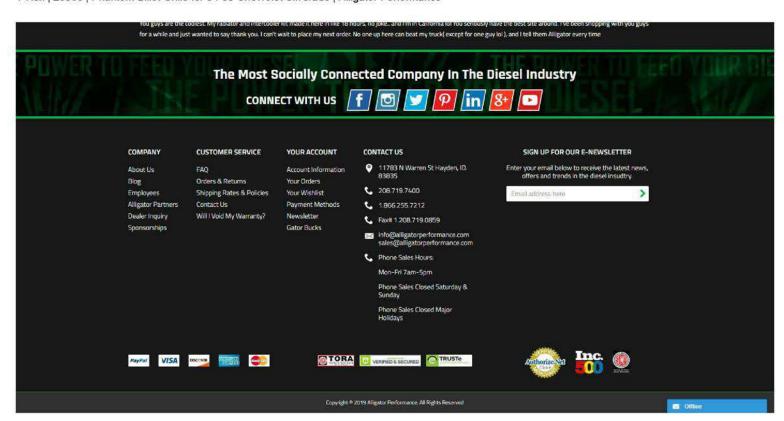
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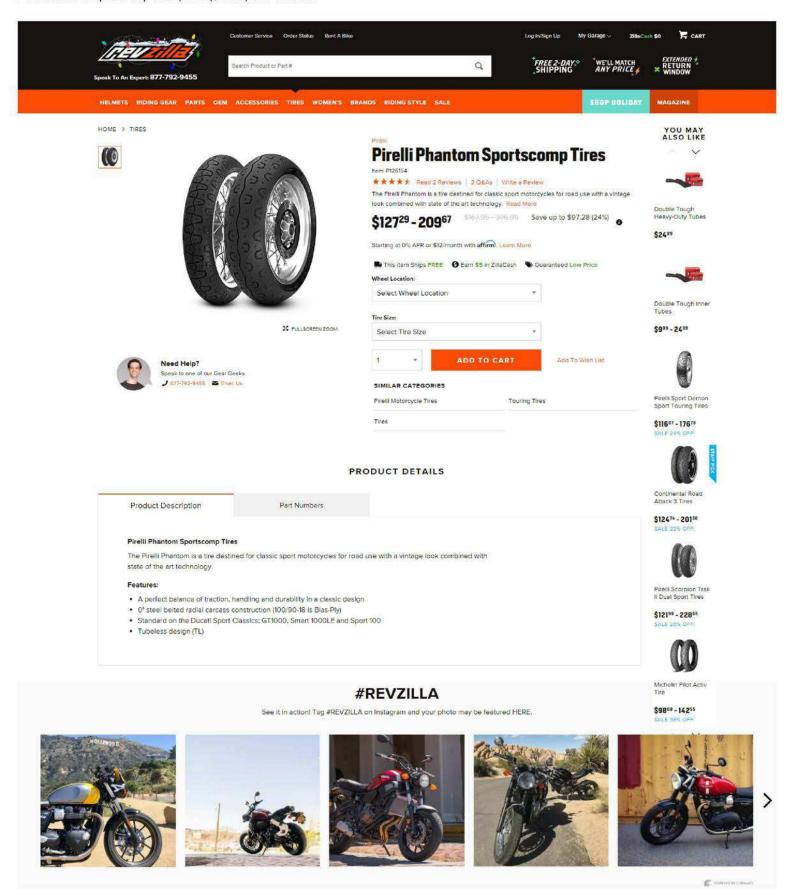
· Finish: Polished

· Install Replacement

· Phantom Billet Insert

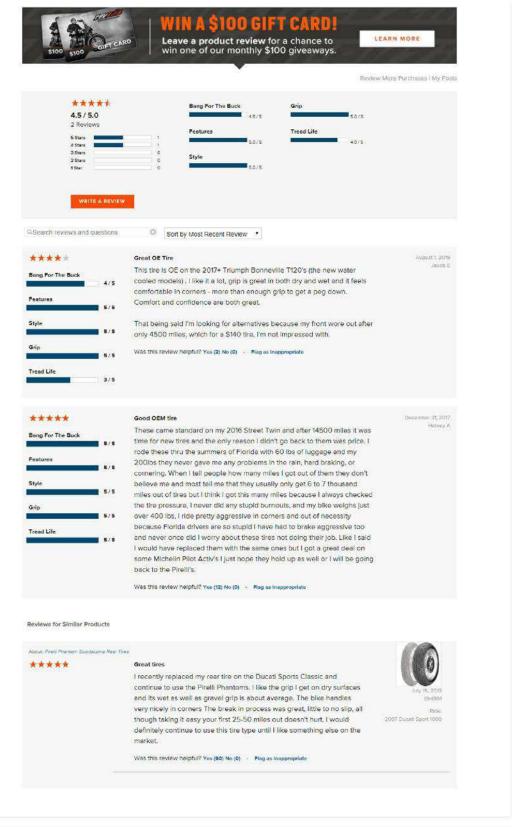
No H/lamp Recess Needed (7 Bars)



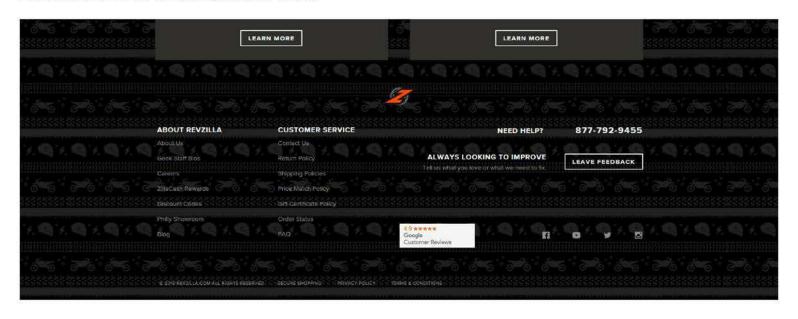


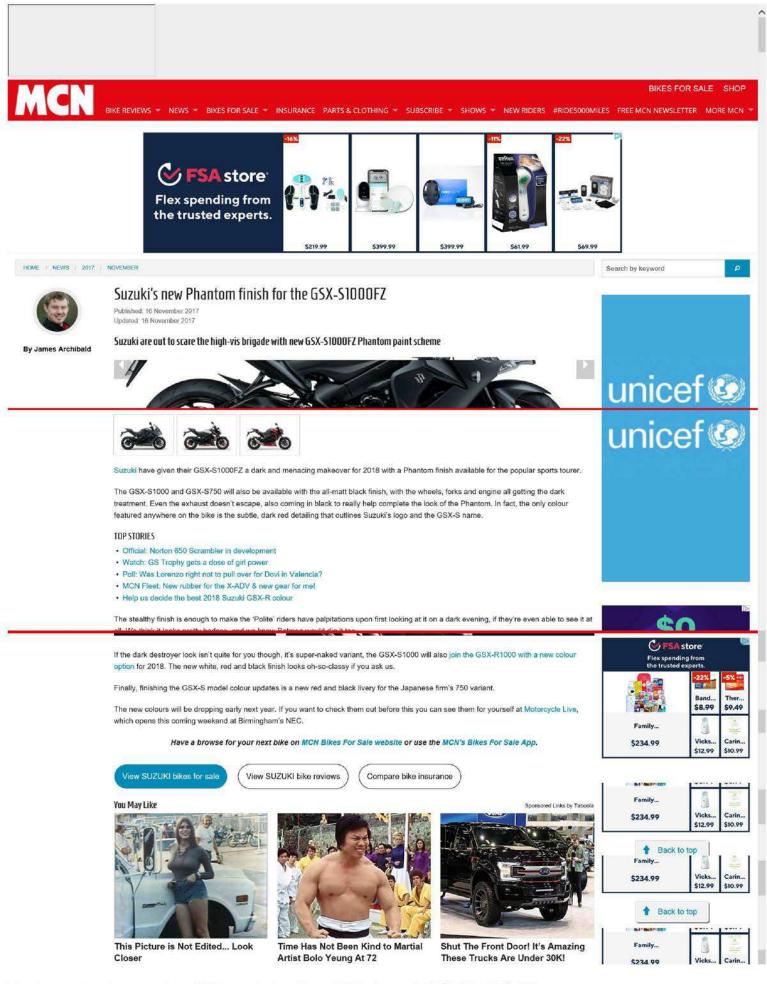
REVIEWS & QUESTIONS

2 Customer Reviews 3 Questions & 4 Answers



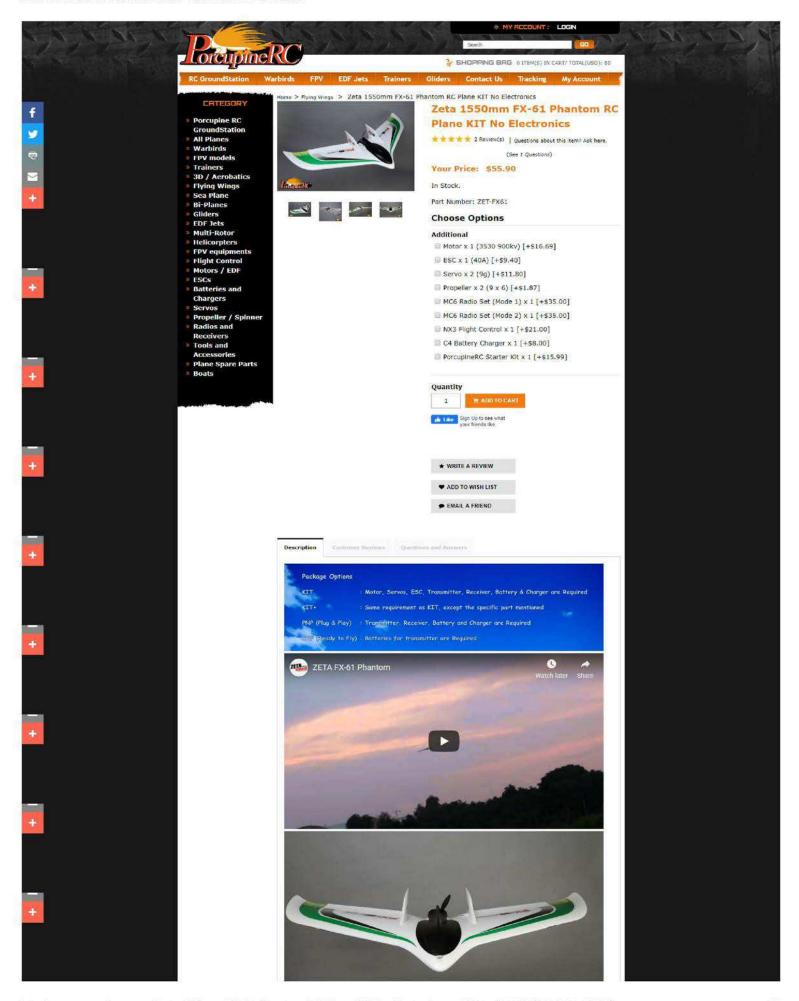


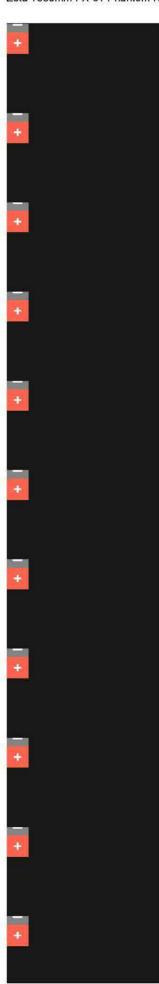




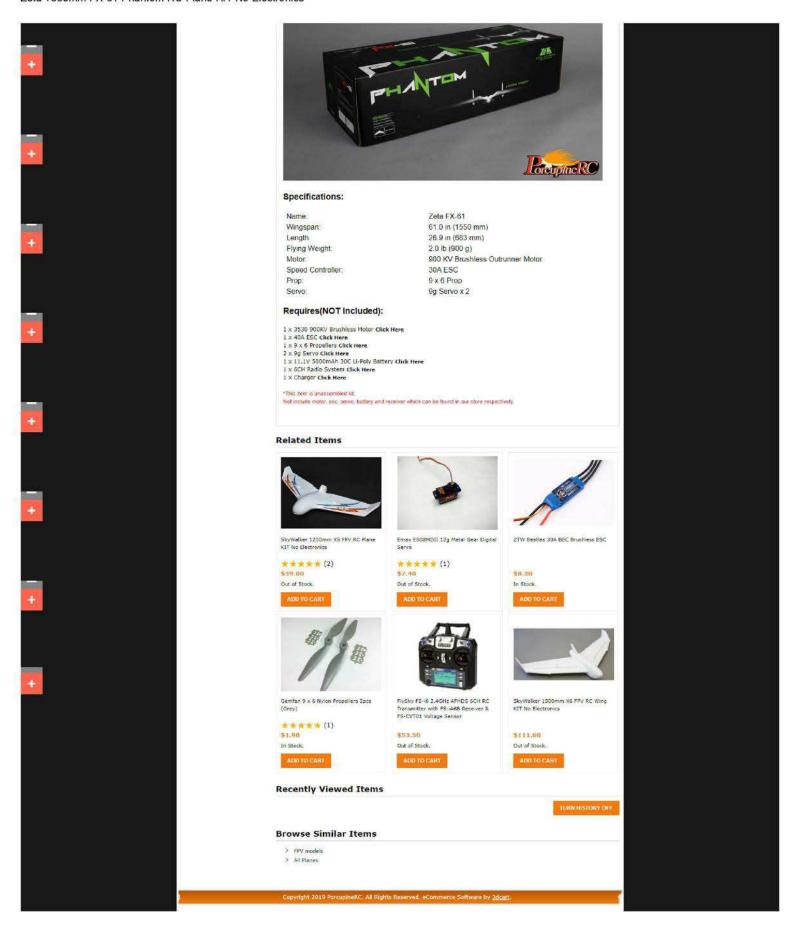


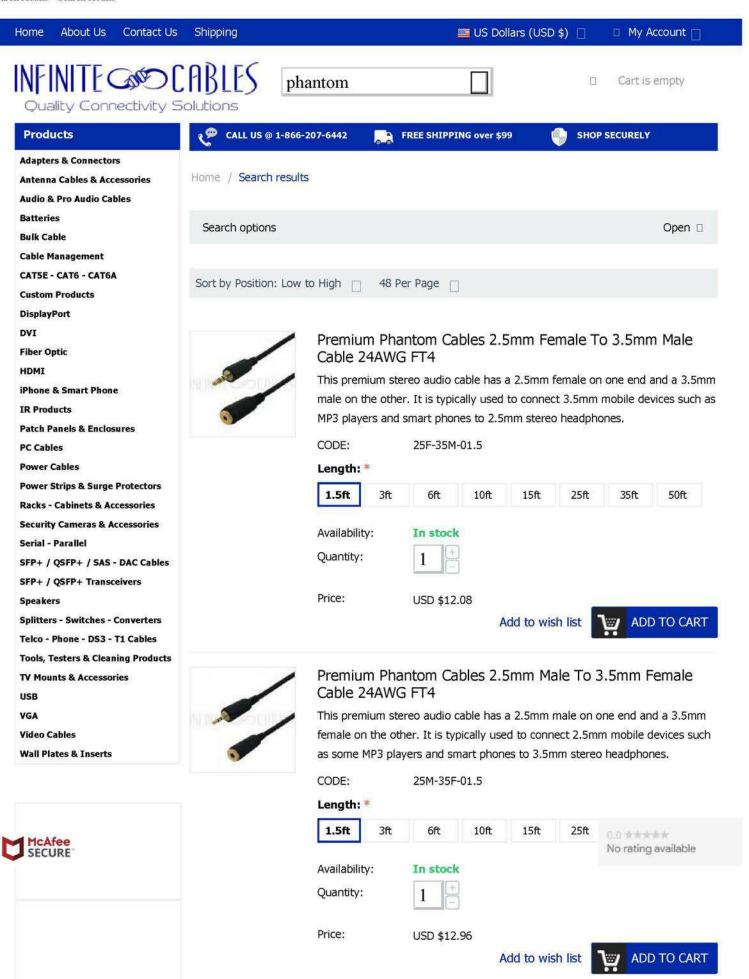


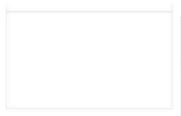














Premium Phantom Cables 2.5mm Male To 3.5mm Male Cable 24AWG FT4

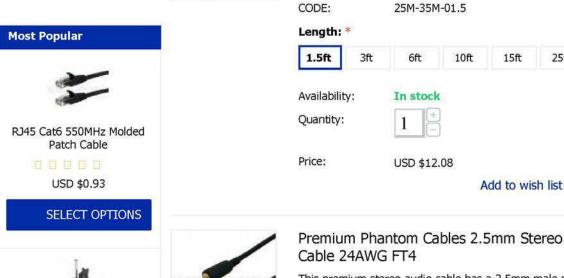
This premium stereo audio cable has a 3.5mm male on one end and a 2.5mm male on the other. It is typically used to connect 2.5mm mobile devices such as some MP3 players and smart phones to 3.5mm stereo inputs.

25ft

35ft

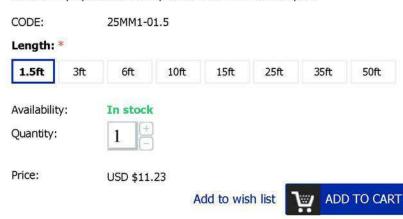
50ft

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Premium Phantom Cables 2.5mm Stereo Cable Male To Male

This premium stereo audio cable has a 2.5mm male on one end and a 2.5mm male on the other. It is typically used to connect 2.5mm mobile devices such as some MP3 players and smart phones to 2.5mm stereo inputs.





Swivel & Tilt LED/LCD/PDP Desktop Bracket (10-23

inch)

USD \$18.65

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Premium Phantom Cables 2.5mm Stereo Male To Female Cable 24AWG FT4

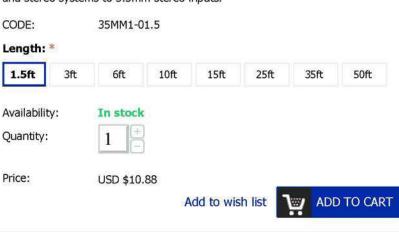
This premium stereo audio cable has a 2.5mm male on one end and a 2.5mm female on the other. It is typically used to extend a 2.5mm stereo cable.





Premium Phantom Cables 3.5mm Stereo Male To Male Cable 24AWG FT4

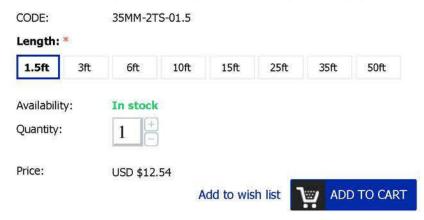
This premium stereo audio cable has a 3.5mm male on one end and a 3.5mm male on the other. It is typically used to connect 3.5mm devices such as PCs and stereo systems to 3.5mm stereo inputs.





Premium Phantom Cables 3.5mm Male to 2x 1/4 inch TS Male Audio Cable FT4

This stereo audio cable has a 3.5mm male on one end and two 1/4 inch TS male connectors on the other. It is typically used to connect audio devices such as PCs and stereo systems to the input of unbalanced pro audio equipment.





Premium Phantom Cables 3.5mm Stereo Male To Female Cable 24AWG FT4

This premium stereo audio cable has a 3.5mm stereo male on one end and a 3.5mm stereo female on the other. It is typically used to extend a 3.5mm stereo cable.





ADD TO CART



Premium Phantom Cables 3.5mm Male to 2 \times RCA Male Audio Cable

This stereo audio cable has a 3.5mm male on one end and two RCA males on the other. It is typically used to connect audio devices such as iPods, MP3 players and smart phones to audio systems.



Premium Phantom Cables 3.5mm Male to 2 x RCA Female Audio Cable

Add to wish list

This premium stereo audio cable has a 3.5mm male on one end and two RCA females on the other. It is typically used to connect 3.5mm audio devices such as PCs and stereo systems to dual channel RCA audio inputs.

CODE: 35MM-RCAF-01.5 Length: * 1.5ft 3ft 6ft 10ft 15ft 25ft 35ft 50ft In stock Availability: Quantity: Price: USD \$15.92 Add to wish list ADD TO CART



Premium Phantom Cables Digital Coax RCA Male To 3.5mm Male Cable 18AWG FT4

This digital audio cable has a RCA male on one end and a 3.5mm mono male on the other. It is typically used to connect a 3.5mm digital audio output of a PC to digital coax RCA input of surround sound system.



Availability: In stock
Quantity: 1

Price: USD \$11.38

Add to wish list





Premium Phantom Cables Digital Coax RCA Male To Male Cable 18AWG FT4

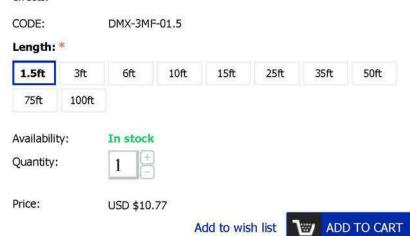
This digital audio coaxial cable has a RCA male on one end and a RCA male on the other. It is typically used to connect audio equipment which requires a S/PDIF digital signal but can also be used as a composite video cable as well.





Premium Phantom Cables 3-Pin XLR DMX Male To Female Cable

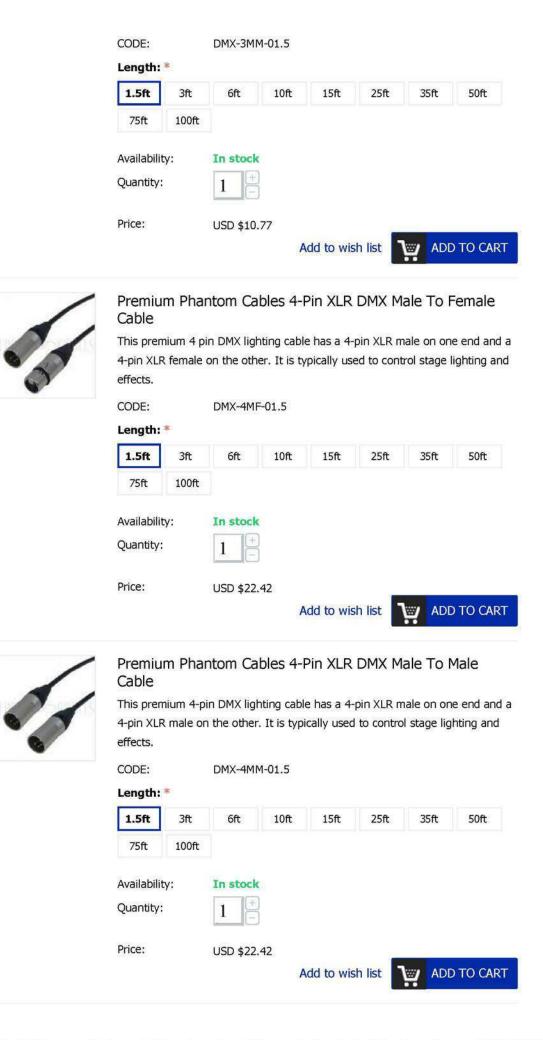
This premium 3-pin DMX lighting cable has a 3-pin XLR male on one end and a 3-pin XLR female on the other. It is typically used to control stage lighting and effects.





Premium Phantom Cables 3-Pin XLR DMX Male To Male Cable

This premium 3-pin DMX lighting cable has a 3-pin XLR male on one end and a 3-pin XLR male on the other. It is typically used to control stage lighting and effects.





Premium Phantom Cables 5-Pin XLR DMX Male To Female Cable

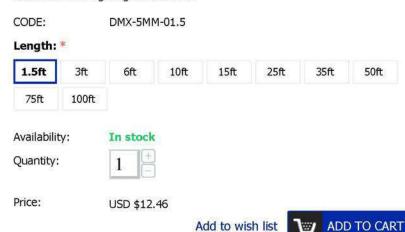
This premium 5-pin DMX lighting cable has a 5-pin XLR male on one end and a 5-pin XLR female on the other. It is typically used to control stage lighting and effects.

CODE: DMX-5MF-01.5 Length: * 10ft 1.5ft 3ft 6ft 15ft 25ft 35ft 50ft 100ft 75ft Availability: In stock Quantity: Price: USD \$12.46 ADD TO CART Add to wish list



Premium Phantom Cables 5-Pin XLR DMX Male To Male Cable

This premium lighting cable has a 5-pin XLR DMX male on one end and a 5-pin XLR DMX male on the other. It is typically used in the transmission of digital audio and DMX lighting control data.

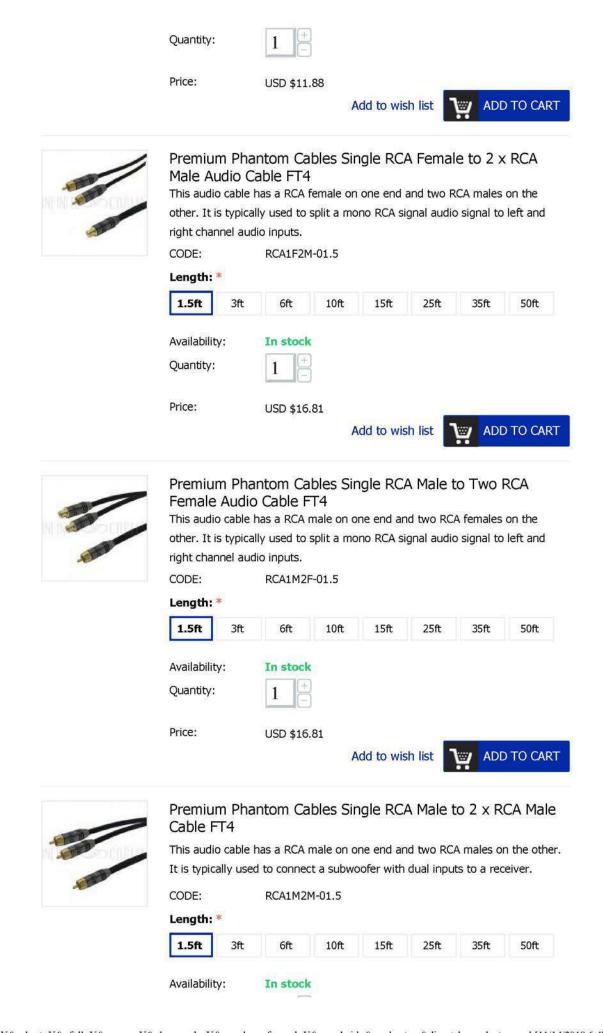


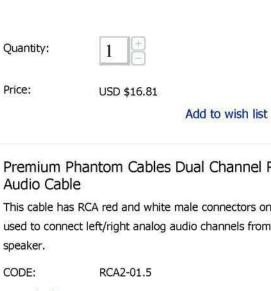


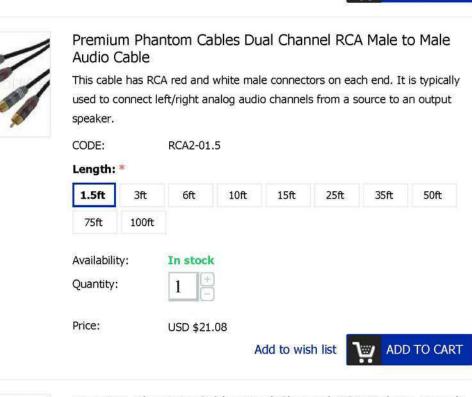
Premium Phantom Cables 5-Pin MIDI Male To Male Cable FT4

This premium 5-pin MIDI cable has a din 5-pin male on one end and a din 5-pin male on the other. It is typically used to connect MIDI equipment such as electronic musical instruments and computers.









ADD TO CART



Premium Phantom Cables Dual Channel RCA Male to Female Audio Cable

This cable has RCA red and white male connectors on one end and RCA red/white female connectors on the other. It is typically used to extend a left/right analog audio cable.





Premium Phantom DB25 Male to 6 x RCA Male 6-channel Snake cable (THX pinout)

This audio snake cable has a DB25 male on one end and six RCA males on the other. It has a THX pinout and is typically used to connect a 5.1 surround sound source to a preamp or receiver.

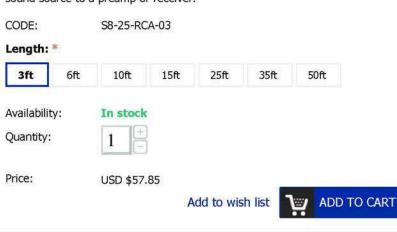
CODE: S6-25-RCA-03





Premium Phantom DB25 Male to 8xRCA Male 8-channel Snake cable (THX pinout)

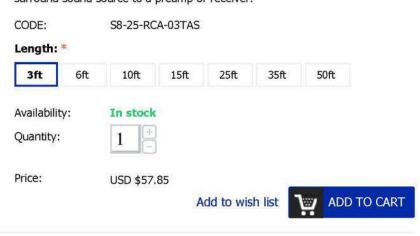
This audio snake cable has a DB25 male on one end and eight RCA males on the other. It has a THX pinout and is typically used to connect a 7.1 surround sound source to a preamp or receiver.





Premium Phantom DB25 Male to 8 x RCA Male 8-channel Snake cable (Tascam pinout)

This audio snake cable has a DB25 male on one end and eight RCA males on the other. It has a Tascam pinout and is typically used to connect a 7.1 surround sound source to a preamp or receiver.

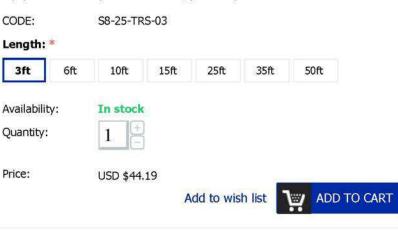


Premium Phantom Cables DB25 Male to TRS Male Balanced Analog 8-Channel Snake Cable

This audio snake cable has a DB25 male on one end and eight 1/4 inch TRS males on the other. It is typically used to connect Tascam compatible



equipment such as pro audio mixers, patch bays and recorders.





Premium Phantom Cables DB25 Male to XLR Female Balanced Analog 8-Channel Snake Cable

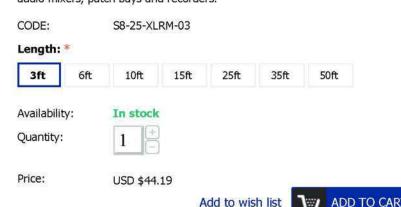
This audio snake cable has a DB25 male on one end and eight XLR females on the other. It is typically used to connect Tascam compatible equipment such as pro audio mixers, patch bays and recorders.





Premium Phantom Cables DB25 Male to XLR Male Balanced Analog 8-Channel Snake Cable

This audio snake cable has a DB25 male on one end and 8 XLR males on the other. It is typically used to connect Tascam compatible equipment such as pro audio mixers, patch bays and recorders.







Premium Phantom Cables RCA Male to RCA Male Analog 8-Channel Snake Cable

This audio snake cable has eight RCA male connectors on both ends. It is typically used to connect a 7.1 surround sound source to a preamp or receiver.





Premium Phantom Cables RCA Male to TS Male Analog 8-Channel Snake Cable

This audio snake cable has eight RCA male on one end and eight 1/4 inch TS males on the other. It is typically used to connect mixing consoles and patch bays.





Premium Phantom Cables RCA Male to XLR Female Unbalanced Analog 8-Channel Snake Cable

This audio snake cable has eight RCA male on one end and eight XLR females on the other. It is typically used to connect pro audio devices to pro audio mixers.

CODE: S8-RCA-XLRF-03

Length: *

3ft 6ft 10ft 15ft 25ft 35ft 50ft

Availability: In stock

Quantity: 1

Price: USD \$76.42





Premium Phantom Cables RCA Male to XLR Male Unbalanced Analog 8-Channel Snake Cable

This audio snake cable has eight RCA male on one end and eight XLR males on the other. It is typically used to connect mixing consoles and patch bays.

CODE: S8-RCA-XLRM-03

Length: *

3ft 6ft 10ft 15ft 25ft 35ft 50ft

Availability: In stock

Quantity: 1 +

Price: USD \$76.42

Add to wish list





Premium Phantom Cables TRS Male to TRS Male Balanced Analog 8-Channel Snake Cable

This audio snake cable has eight 1/4 inch TRS male connectors on both ends. It is typically used to connect mixing consoles and patch bays.

CODE: S8-TRS-TRS-03

Length: *

3ft 6ft 10ft 15ft 25ft 35ft 50ft

Availability: In stock

Quantity: 1

Price: USD \$62.73

Add to wish list





Premium Phantom Cables TRS Male to XLR Female Balanced Analog 8-Channel Snake Cable

This audio snake cable has eight 1/4 inch TRS male on one end and eight XLR females on the other. It is typically used to connect mixing consoles and patch bays.

CODE: S8-TRS-XLRF-03

Length: *

3ft 6ft 10ft 15ft 25ft 35ft 50ft

Availability: In stock

Quantity: 1

Price: USD \$62.73







Premium Phantom Cables TRS Male to XLR Male Balanced Analog 8-Channel Snake Cable

This audio snake cable has eight 1/4 inch TRS male on one end and eight XLR males on the other. It is typically used to connect pro audio devices to pro audio mixers.

CODE: S8-TRS-XLRM-03 Length: * 3ft 6ft 10ft 15ft 25ft 35ft 50ft In stock Availability: Quantity: Price: USD \$62.73 Add to wish list ADD TO CART



Premium Phantom Cables XLR Female to XLR Female Balanced Analog 8-Channel Snake Cable

This audio snake cable has eight XLR female connectors on both ends. It is typically used to connect mixing consoles and patch bays.



Premium Phantom Cables XLR Male to XLR Male Balanced Analog 8-Channel Snake Cable

This audio snake cable has eight XLR male connectors on both ends. It is typically used to connect mixing consoles and patch bays.

CODE: \$8-XLRM-03

Length: *

3ft 6ft 10ft 15ft 25ft 35ft 50ft

Availability: In stock

Quantity: 1

Price: USD \$62.73







Premium Phantom Cables XLR Male to XLR Female Balanced Analog 8-Channel Snake Cable

This audio snake cable has eight XLR male connectors on one end and eight XLR female connectors on the other end. It is typically used to connect mixing consoles and patch bays.

CODE: S8-XLRMF-03 Length: * 3ft 6ft 10ft 25ft 35ft 50ft 15ft Availability: In stock Quantity: Price: USD \$62.73 Add to wish list **ADD TO CART**



Premium Phantom Cables Banana Clip Speaker Cable FT4

This audio speaker cable has two banana clip males on one end and two banana clip males on the other. It is typically used to connect speakers to amplifiers.

CODE: SP-B2B2D-03

Wire Gauge: *

12AWG 14AWG

Length: *



Availability: In stock

Quantity: 1

Price: USD \$28.46

Add to wish list





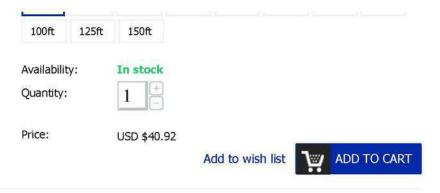
Premium Phantom Cables Banana Clip Bi-Wire Speaker Cable FT4

This audio speaker cable has two banana clip males on one end and four banana clip males on the other. It is typically used to connect bi-wired speakers to an amplifier.

CODE: SP-B2B4C-03

Length: *

3ft 6ft 10ft 15ft 25ft 35ft 50ft 75ft





Premium Phantom Cables Banana Clip to Spade Lug Speaker Cable FT4

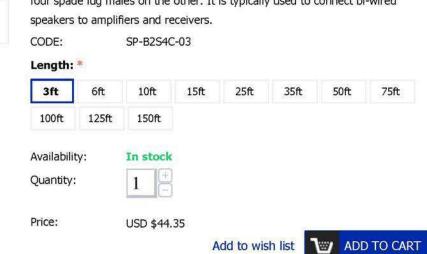
This audio speaker cable has two banana clip male connectors on one end and two spade lug male connectors on the other. It is typically used to connect speakers to amplifiers and receivers.





Premium Phantom Cables Banana Clip to Spade Lug Bi-Wire Speaker Cable FT4

This audio speaker cable has two banana clip male connectors on one end and four spade lug males on the other. It is typically used to connect bi-wired speakers to amplifiers and receivers.





Premium Phantom Cables 2-Pole speakON to Dual Banana Clip Speaker Cable FT4

This audio speaker cable has a 2-pole speakON on one end and dual banana clip male on the other. It is typically used to connect pro audio speakers to amplifiers.

CODE: SP-N1B2D-03 Wire Gauge: * 12AWG 14AWG Length: 3ft 6ft 10ft 15ft 25ft 35ft 50ft 75ft 125ft 100ft 150ft Availability: In stock Quantity: Price: USD \$21.96 Add to wish list **ADD TO CART**



Premium Phantom Cables 2-Pole speakON to 2-Pole speakON Speaker Cable FT4

This audio speaker cable has a 2-pole speakON on one end and 2-pole speakON on the other. It is typically used to connect pro audio speakers to amplifiers.

CODE: SP-N1N1D-03 Wire Gauge: * 14AWG 12AWG Length: * 3ft 6ft 10ft 15ft 25ft 35ft 50ft 75ft 100ft 125ft 150ft Availability: In stock Quantity: Price: USD \$22.15



Premium Phantom Cables 2-Pole speakON to 1/4 inch TS Speaker Cable FT4

Add to wish list

This audio speaker cable has a 2-pole speakON on one end and 1/4 inch TS male on the other. It is typically used to connect pro audio speakers to amplifiers.

CODE: SP-N1T1C-03

Length: *

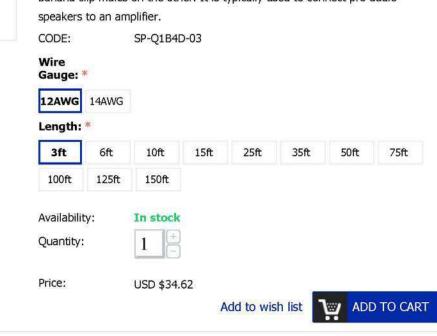
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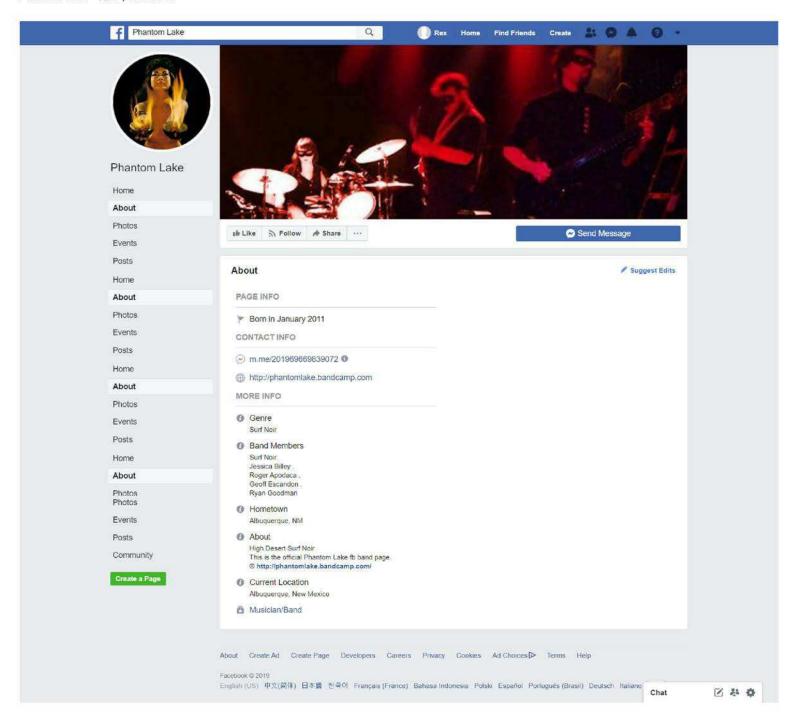
Premium Phantom Cables 4-Pole SpeakON to 2 xDual Banana Clip Speaker Cable FT4

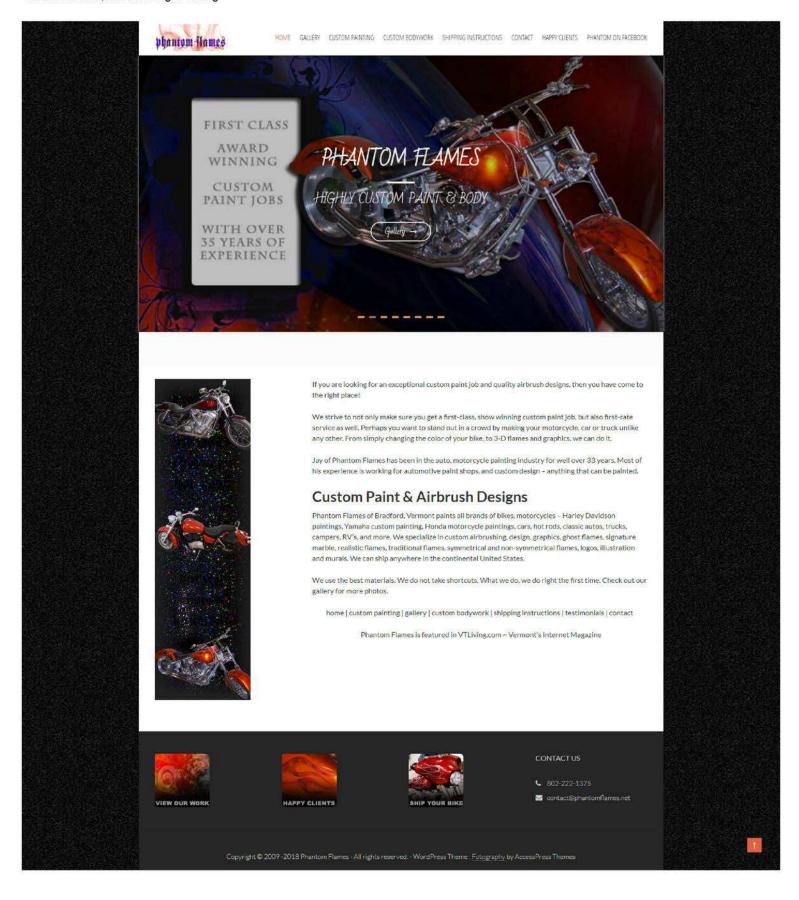
This audio speaker cable has a 4-pole speakON male on one end and two dual banana clip males on the other. It is typically used to connect pro audio speakers to an amplifier.

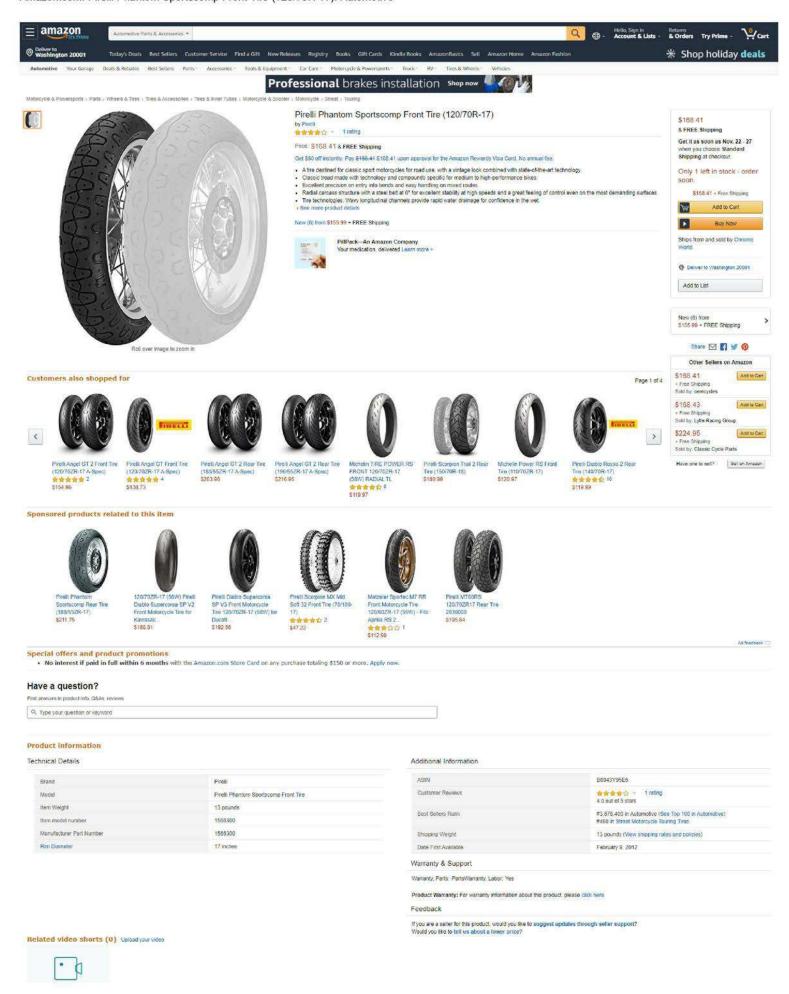


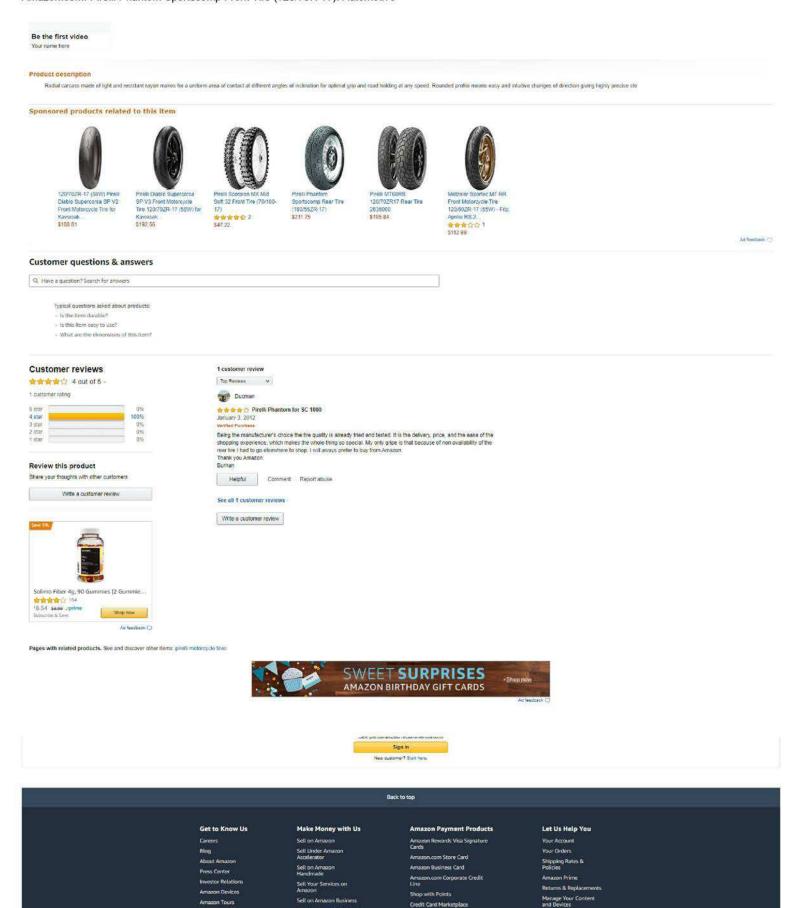






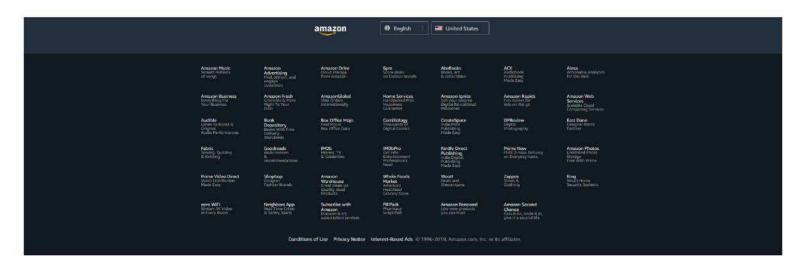


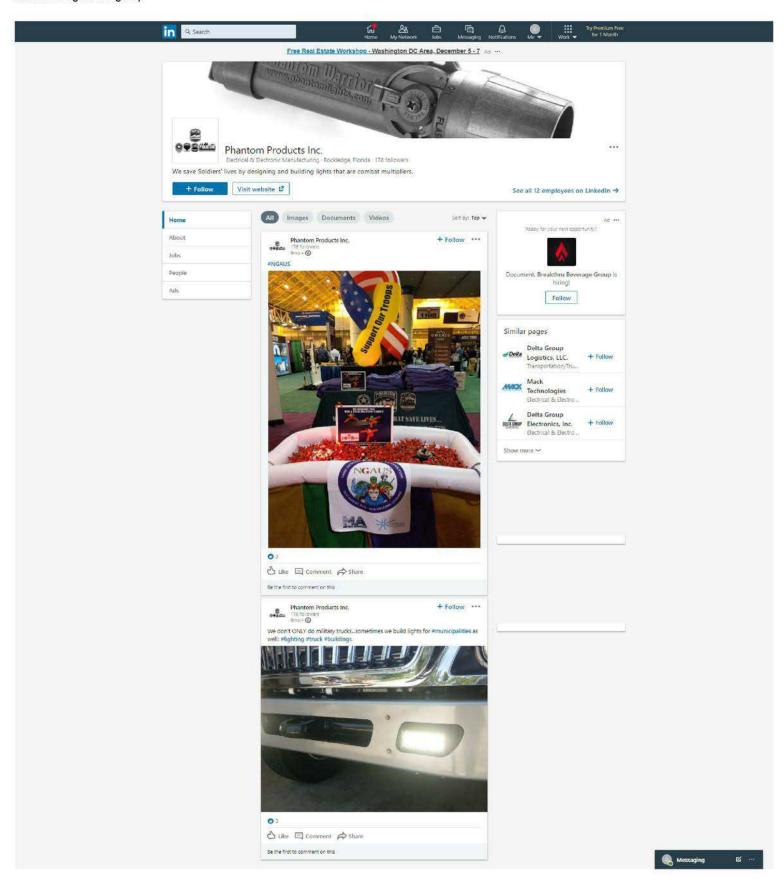


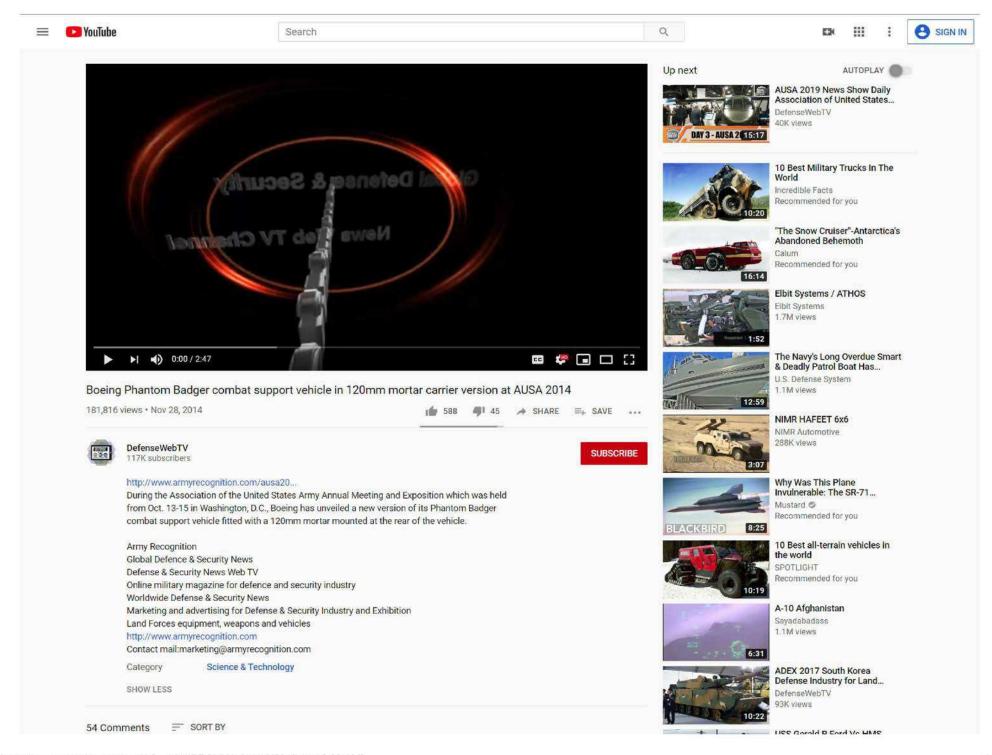


Reload Your Balance

2 See More









Add a public comment...



ptinio2 4 years ago

I keep waiting for nicolas cage to show up





TnBDelta 4 years ago

I wonder how armoured that trailer is.

IED goes off and hits with one of these trailers attached to the vehicle and you end up with mortars in yo butt? :/

1 2 491 REPLY

View reply



Lord Rudra 4 years ago

i love the badger compact look

I REPLY



Sumanta Dev 1 year ago

Is it an Battle Proven Equipment?

i ● 學 REPLY



Papi1960R 9 months ago (edited)

Well the Marines chose to go with a redone, 40 year old French 120mm mortar, instead of the 12 year old Israeli derived 120mm mortar the US Army uses and a completely different style of prime mover.

The French mortar works exceptionally well, but the Marines can't keep the associated vehicles out of the shop. In addition General Dynamics charges the Marines 37 times more than the manufacturer Thomson-CSF's list price for the actual Read more

REPLY



יוני ליבני 3 years ago

can also be transported by (armored) train-trailers, while covered and hidden from curious people by a canvas sheet. As farther close to the danger zone.

in 1 491 REPLY



Nevin Zavell 4 years ago

What an odd name. Phantom Badger

in 1 491 REPLY

View 2 replies



Pedro Luis Chillon Zaragoza 2 years ago

son muy buenos reportajes "pero podrían ser en castellano, gracias

in # REPLY



heresteven 3 years ago

The front looks lame.

REPLY



tye Daniels 4 years ago



USS OCIAIU N FUIU VS I IIVIS Queen Elizabeth - Nuclear vs...

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Innovative Techs Recommended for you



5 Most Powerful U.S Jet Fighter on the Planet

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armyreco 4.8K views



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SOFEX 2018 Special Operations Forces Exhibition Marder 1A3...

DefenseWebTV



Yea man that don't look good for hot missions but I'd go off-roading in it

REPLY



Павел Захаров 2 years ago

в афгане миномёт на газоне возили,вдесять раз проще и дешевле,замах на рубль,а выхлоп на копейку

1 # REPLY



Rob.Jimerson 4 years ago

socoo... where will the rest of my squad sit? I got myself TC and a driver... not effective if you ask me.

1 4 REPLY

View 2 replies



Ocodo 3 years ago

I think the initial concept is flawed when you compared it to rocket artillery systems like the grad system, which can engage targets with a far more grater rate of fire, and quickly disengage.

in 1 491 REPLY

View 2 replies



Alex McCoy 5 months ago

What an ugly intro music.

in 1 491 REPLY



Alex Gut 3 years ago

Los americanos como siempre sorprendiendo al mundo con soluciones innovadoras y originales! Es una exelente combinacion de una pieza de artilleria con un vehículo ligero! Creo que una version de ese vehículo no seria dificil de reproducir en en pais con escasos recursos!... Se ve muy compacto y funcional!...

in 2 491 REPLY

View reply



Dan lacobescu 3 years ago

Yes, but the Obama administration cuts in the defense department, will this vehicle be adopted by the US Army?

1 4 4 REPLY

View 4 replies



Whomagoose 1 year ago

Now they have computers to generate firing data. Range to target, deflection of the Forward Observer and Gun crews to target, Charge needed for the rounds, and no more manhandling of the assembled gun. How easy can it get?

I worked the old M-30, 4.2-inch mortar years ago. Ground mounted and carried by the M-561 Gamma Goat truck. Also, the M-106 mortar carrier, a mortar gun carrier derived from the M-113. The assembled gun weighed 672.2-pounds, 405-kg, and no hydraulic Read more

is 1 4 REPLY



Khai Lam 2 years ago

Việt Nam

IN AU REPLY



Russel de lima 4 years ago

it is just to kill one man or may including you

Im #I REPLY



20K views



Israel Military Industries (IMI) unveil their new CombatGuard...

Jane's by IHS Markit 221K views



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AUSA 2019: Rheinmetall robotic and autonomous vehicles for...

Jane's by IHS Markit 17K views



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DAGOR Ultra-Light Vehicle from Polaris Defense

Polaris Off Road 160K views



Aman Gupta 4 years ago

pakistani bhai jano china ka maal use and throw hota hai in key bhoresey jang mai mat jana nahi tou muh ki khani padegi



if # REPLY

View reply



Lufasu Mafalu 4 years ago

this is what happened when western military faced untrained underarmed guerillas for decades, and they think in the future the enemy will just like the current ones.. these soft skinned crap will be totally destroyed in a real conflict against enemy who got artilery

i 9 4 REPLY

View 8 replies



bestamerica 4 years ago

how about XR311 vehicle and MRAP

if 1 491 REPLY



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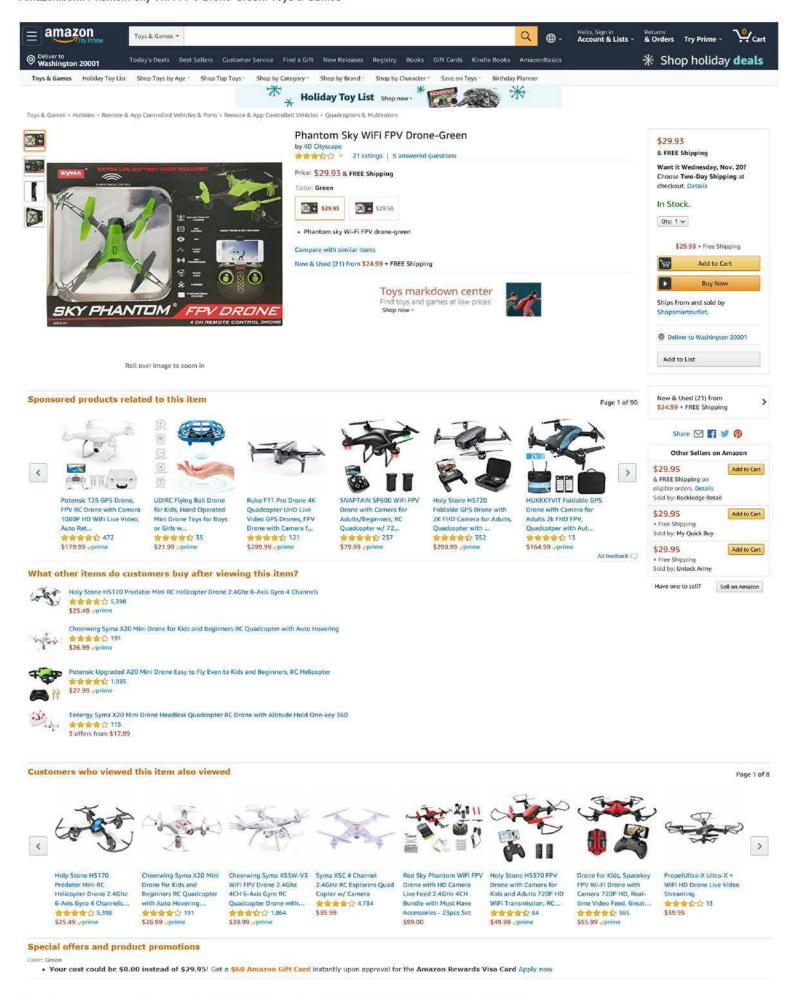


AUSA 2019 News Show Daily Association of United States... DefenseWebTV



AUSA 2016 - New ultralight fighting vehicles from Polaris Breaking Defense 90K views

10 Most Insane Military Planes





CHOKING HAZARD -- Small parts. Not for children under 3 yrs.

Have a question?

Find answers in product info, Q&As, reviews

Q. Type your question or keyword



1 Fly Responsibly

The Federal Aviation Administration requires registration of many drones flown in the US, for hobby or commercial purposes. To learn more about drone registration requirements, visit our Fly Responsibly page.

Product description

Phantom sky Wi-Fi FPV drone-green

Product information

Color:Green

Product Dimensions	6 x 6 x 6 inches
Item Weight	1.05 pounds
Shipping Weight	1.05 pounds (View shipping rates and policies)
ASIN	B07H4ZCHRN
Item model number	B07H4ZCHRN
Manufacturer recommended age	30 years and up
Batteries	1 Lithium Polymer batteries required.
Best Sellers Rank	#250,617 in Toys & Games (See Top 100 in Toys & Games) #1,306 in Hobby RC Quadcopters & Multirotors
Customer Reviews	会会会会 21 ratings 3.7 out of 5 stars

Warranty & Support

Product Warranty: For warranty information about this product, please click here

Feedback

If you are a seller for this product, would you like to suggest updates through seller support? Would you like to tell us about a lower price?

Videos

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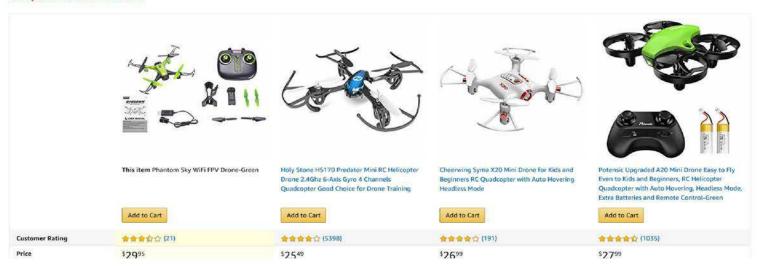
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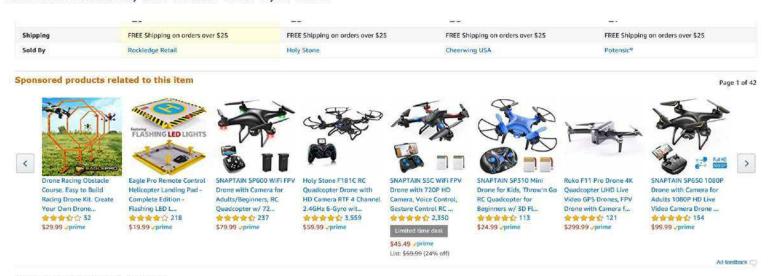
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Important information

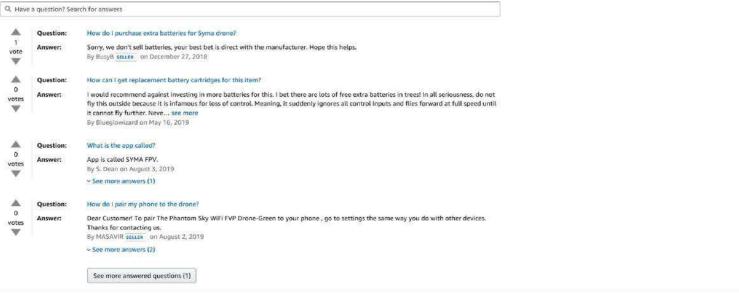
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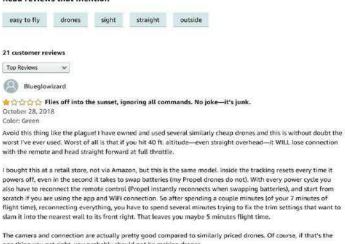


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Write a customer review

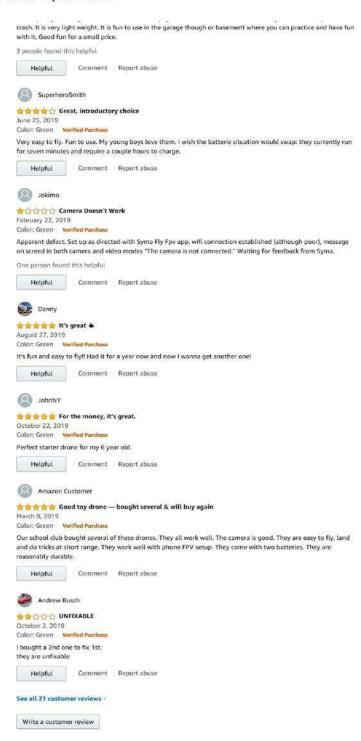
Read reviews that mention

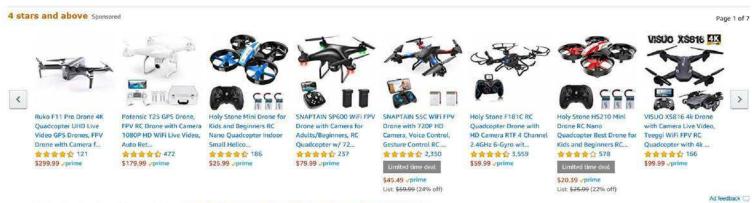


also have to reconnect the remote control (Propel instantly reconnects when swapping batteries), and start from scratch if you are using the app and WiFI connection. So after spending a couple minutes (of your 7 minutes of flight time), reconnecting everything, you have to spend several minutes trying to fix the trim settings that want to slam it into the nearest wall to its front right. That leaves you maybe 5 minutes flight time.

one thing you get right, you probably should not be making drones. ~ Read more 37 people found this helpful Comment Report abuse Helpful Barefoot Graphics 🎪 🌟 🌟 🐈 Lots of fun for a little price December 18, 2018

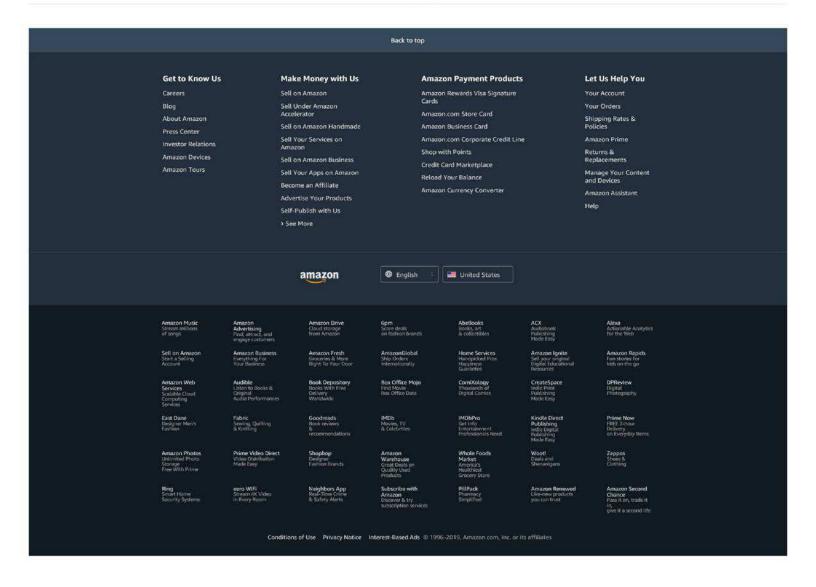
Color: Green Verified Purchase This is pretty amazing how much fun this is except you can't use it outside. If there is any kind of breeze, it will





Pages with related products. See and discover other items: camera for drones, Sky Remote Controls, Cameras Drones, drones under 50 dollars.







Share This Article:



Imagine a Spaceplane that can take off vertically like a rocket, deploy a satellite in space, and then land back on Earth horizontally like a plane. Now imagine that same spacecraft flying 10 times...in 10 days.

This game changing spaceplane would enable rapid access to space on a reusable spacecraft and is known as the "Phantom Express."

The Phantom Express is being built through a partnership between Boeing and the U.S. Defense Advanced Research Projects Agency (DARPA).



This week, the Phantom Express came a little closer to becoming a reality as the spaceplane's engine manufacturer — California-based rocket propulsion company Aerojet Rocketdyne —completed assembly of their first Phantom Express engine.

The reusable engine, which is derived from those used on the Space Shuttle program, will now undergo a series of daily hot-fire tests to demonstrate their reliability and rapid turnaround capability for this innovative and mysterious new spaceplane.

Learn more about the Phantom Express.



Share This Article:

Would you like to travel from NYC to Sydney nonstop?

f 🎐

That's the question Qantas Airways is trying to answer.

Thanks to advanced, ultra-efficient planes like the Boeing 787-9 Dreamliner, passengers will soon be able to take

nonstop flights between cities as far apart as New York and Sydney.



But before these flights become available, airlines like Qantas need to test out how to make these extra long flights comfortable for their passengers.

Qantas sent their employees and passengers on a 19-hour test flight from New York to Sydney — and tracked their brain waves, alertness, and hormones like melatonin in order to measure the impact of the flight on the human body.

Plans for a London to Sydney test are set for November and another New York to Sydney trip before the end of the year.

The airline plans to test everything from lighting to in-air menus, and have even added a yoga studio to their lounge in Perth, Australia to help passengers relax after long flights.



Published on October 24, 2019

Naval aviation plays a vital role in keeping America safe.

f w

Share This Article:

That's why we're excited about the first test flight of the MQ-25 Stingray, an unmanned aerial vehicle designed to refuel the Naw's fighter aircraft.

On Sept. 19, Boeing and the U.S. Navy announced the MQ-25's test flight from MidAmerica St. Louis Airport in Mascoutah, Illinois — a facility adjacent to Scott Air Force Base.

We won't beat around the bush - this test flight is a big deal for the U.S. Navy.

Why does the Navy need the MQ-25?

When the Navy's strike fighters need fuel during flight, an F/A-18 has to do the tanking – straining the Navy's aircraft fleet and preventing the refueling F/A-18 from taking on other crucial missions.

The integration of the MQ-25 would make more F/A-18s available for strike fighter missions, increasing the capability of the U.S. Navy.

What are the next steps for the MQ-25?

Boeing and the Navy will build and test the MQ-25 Stingrays and plan to integrate them into the Navy's fleet in 2024. It will be the historic first time an unmanned platform performs regular operations with the carrier air wing.



Published on October 16, 2019

Share This Article



Training for spaceflight is intense.

Astronauts go to great lengths to get their bodies ready for the arduous journey from the Earth's surface to outer space.

They undergo countless medical tests, exhausting physical training, and learn how to conduct the complex scientific experiments required of them once they reach their destination.



At the Johnson Space Center in Houston, Texas, astronauts are training underwater in order to prepare for their time in space – for spacewalks or work outside the space station or other activity outside the spacecraft beyond the Earth's atmosphere.

The tests include wearing a spacesuit and exploring an underwater model of the space station in order to prepare them for their experience.

Want to see the astronauts in action? Check out these photos of their underwater training session.



Published on October 7, 2019

TEARREST

Share This Article.





 $The \, H-47 \, Chinook \, has \, been \, a \, lifeline \, for \, American \, military \, campaigns \, around \, the \, globe \, for \, more \, than \, 58 \, years, \, and \, campaigns \, around \, the \, globe \, for \, more \, than \, 58 \, years, \, and \, campaigns \, around \, the \, globe \, for \, more \, than \, 58 \, years, \, and \, campaigns \, around \, the \, globe \, for \, more \, than \, 58 \, years, \, and \, campaigns \, around \, the \, globe \, for \, more \, than \, 58 \, years, \, and \, campaigns \, around \, the \, globe \, for \, more \, than \, 58 \, years, \, and \, campaigns \, around \, the \, globe \, for \, more \, than \, 58 \, years, \, and \, campaigns \, around \, the \, globe \, for \, more \, than \, 58 \, years, \, and \, campaigns \, around \, the \, globe \, for \, more \, than \, 58 \, years, \, and \, campaigns \, around \, the \, globe \, for \, more \, than \, 58 \, years, \, and \, campaigns \, around \, the \, globe \, for \, more \, than \, 58 \, years, \, and \, campaigns \, around \, the \, globe \, for \, more \, than \, 58 \, years, \, and \, campaigns \, around \, the \, globe \, for \, more \, than \, 58 \, years, \, and \, campaigns \, around \, the \, globe \, for \, more \, than \, 58 \, years, \, and \, campaigns \, around \, the \, globe \, for \, more \, than \, 58 \, years, \, and \, campaigns \, around \, the \, globe \, for \, more \, than \, 58 \, years, \, and \, campaigns \, around \, the \, 58 \, years, \, and \, campaigns \, around \, arou$

serving as a vital part of the armed forces that keep Americans safe.



It's not just the team at Watch U.S. Fly that loves the Chinook — the troops who depend on it for transport, resupply, and evacuations also love the reliable chopper.

Whether it's flying above the jungles of Vietnam or touching down on the mountains of Afghanistan, the Chinook has built a reputation for reliability and toughness.

Want to hear what the men and women in uniform have to say about their experience with the Chinook? Read their stories here.



Liquid Robotics is determined to solve the planet's problems using an unlikely tool — an ocean robot



The advanced robotics firm just introduced its newest Wave Glider, a one-of-its-kind wave and solar-powered, unmanned surface vehicle (USV) designed to monitor and protect the world's oceans.



The newest Wave Glider builds on the previous model, adding the following advancements to the ocean robot.

- · 6x increase in computing power
- Higher power solar panels, combined with more power-efficient components, generate more power while consuming less

- . Enabling customers to deploy a vehicle in 1/3 the time previously possible
- · Next-level advancements in ruggedizing the platform for extreme sea states

The Wave Glider is set to change how we protect our oceans – whether predicting earthquakes and detecting tsunamis, monitoring fish and whale populations, or tracking submarines.



Published on September 27, 2019

Security

Share This Article:



The U.S. Air Force's new trainer jet just got a new name.

The Boeing-built trainer jet — formerly known as the T-X — has been named the T-7A Red Hawk. The advanced jet's new name honors the legacy of the famous Tuskegee Airmen and the Red Tail Squadron.



The Tuskegee Airmen were the first group of African-American military aviators to fly for the American armed forces during World War II. The Tuskegee Airmen broke down racial barriers in the American armed forces and at home while flying successful combat missions over Europe.

Their squadrons were referred to as Red Tails because the Tuskegee Airmen painted the noses and tails of their planes with red rings to differentiate themselves from other units. The T-7A honors their distinctive style and unmatched legacy.

The Red Hawk also pays tribute to the Curtis P-40 Warhawk, an American fighter jet flown by the U.S. Army Air Forces' first African-American fighter squadron.

The T-7A Red Hawk gives the Air Force a versatile, cutting edge trainer jet that will evolve alongside the technologies and missions of the future while honoring the heroes of the past

BOEING PARTNERS WITH SERVICE DOG CHARITY TO HELP VETERANS

Published on September 19, 2019

and mov

Share This Article.



Many veterans face significant challenges when they return to civilian life. Studies have shown that working with service dogs results in lower levels of depression, less anxiety, and fewer visits to the hospital — along with countless other benefits.

That's why Warrior Canine Connection (WCC) and Boeing are partnering to make sure veterans who need service dogs can find a four-legged best friend.

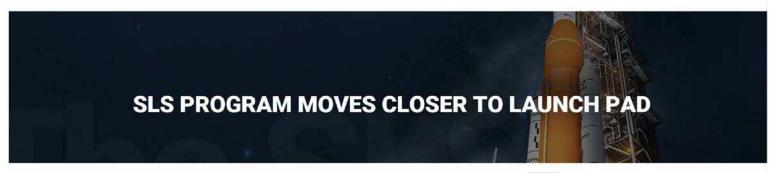
Boeing has been a proud sponsor of WCC since 2018 and recently gave the organization an additional surprise \$75,000 grant to support its Mission Based Trauma Recovery Program (MBTR) — an initiative directed at helping veterans recover from PTSD and other combat-related mental health conditions by partnering them with service doss.



WCC doesn't just place service dogs with veterans — the Mission Based Trauma Recovery Program teaches veterans to train service dogs for fellow warfighters.

The grant brings Boeing's total financial support of WCC to \$175,000 over the past two years. It was announced at Boeing's Arlington office — where Boeing employees were helping to socialize several future service dogs as part of Boeing's partnership with WCC.

Watch our video to learn more about the initiative.



Published on September 17, 2019

Specie

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There is exciting news about NASA's Space Launch System (SLS), which will provide super heavy launch capabilities for the Artemis program. Not only is it the most powerful rocket in the world and the only vehicle capable of launching astronauts to deep space, it is now being manufactured faster and with greater efficiency.

With a first-of-its-kind project like SLS, getting started requires innovative ideas to meet NASA's goal of landing people on the Moon by 2024.





The SLS program has accelerated production: averaging a 50% improvement in efficiency to date. In exciting news, the backbone of the SLS rocket, called the Core Stage, is almost complete, bringing this first-of-its-kind rocket closer to the launch pad.

Building a complex rocket of this size takes unprecedented logistical skills and engineering ability. NASA's newest plan aims to deliver the first SLS Core Stage to the final "green run" testing facility at Stennis Space Center before the end of the year.

THE NEXT GENERATION OF ROCKET SCIENTISTS IS LEADING AMERICA INTO THE NEW SPACE AGE

Published on August 21, 2019

580000

Share This Article:



We're on the brink of a new space age.

America is set to take astronauts back to the moon and, eventually, beyond. We're changing how humanity will travel around outer space by building rockets and spacecraft like the Space Launch System and the Starliner – but who is leading the charge to get us there?

The next generation of rocket scientists, led by people like Tiffany Davis, are working hard to send American astronauts places they've never gone before.



Davis interned for Boeing during college and now works as a spacecraft control engineer with the aerospace company's Mission Operations and Engineering team based out of Arlington, VA. Along with taking America's space programs to the next level, she is committed to making STEM fields more diverse and higher education accessible and affordable for whoever wants to follow their passion.

While she was at the Georgia Institute of Technology, she wrote to President Barack Obama about making higher education more affordable — and he responded by showing up on campus to speak. The former President recently name-dropped Davis in a tweet on the 50th anniversary of Apollo 11, highlighting the next generation of engineers.

What's Davis's favorite thing about working in aerospace engineering?

"Each day working in the space field is different. It's considered to be the last frontier and, because of that, it's possible to discover new things nobody else has."

ACCION SYSTEMS IS PIONEERING THE FUTURE OF SPACEFLIGHT

Published on August 14, 2019

Share This Article

f y

Accion Systems is developing stamp-sized electric propulsion technology to change how we move and control spacecraft.

The cutting-edge electric propulsion technology pioneered by Accion Systems will change what spacecraft are capable of achieving in outer space. Recently, Louis Perna, co-founder and chief scientist of Accion Systems, spoke about ion propulsion technology and its role in our future to Science: Disrupt.

"What is going to be useful is having nuclear power in space so that we can have compact and relatively lightweight, high-power generation."

— Louis Perna, co-founder and chief scientist of Accion Systems

Perna laid out his vision for the future of spaceflight and described the obstacles and opportunities facing electric propulsion technology.

"[N]ow that launches are cheaper and the vehicles are cheaper it's a lot less risky to experiment." Perna said, continuing, "...! see a lot of these new missions adopting electric propulsion technologies, figuring out which ones work well and which ones don't, what changes we need to make them work, and then across the board adopting electric propulsion for small satellites."

Perna stated, "Once you're in space they start to become applicable, and there's really no limit on what you can apply [electric propulsion technology] to."



Published on August 8, 2019

See

Share This Article

The future is female for United Airlines - and the rest of the aviation industry.



This July, United staffed a Boeing 787 Dreamliner with an all-woman crew and flew more than 100 female United employees to the EAA AirVenture Show in Oshkosh, WI.

Once they landed in Oshkosh, the United crew members spoke to a group of over 70 female high school students — hoping to inspire the next generation of female pilots to take to the skies.

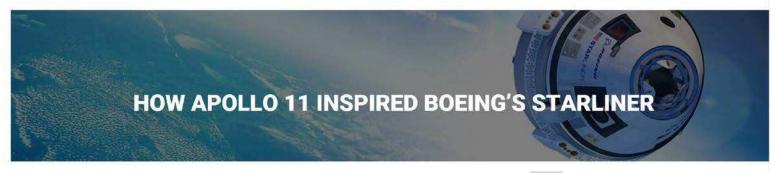


All-female United crew thesia Boeing 282-8 Dreamliner, with almost 100 women, to EAA AirVenture in Cishkosh, Wi

Over the fast several decades, the number of women in aviation has been steadily rising, but they still only represent 7% of all pilots.

Boeing is also **dedicated** to addressing the need for more women to pursue careers in Science, Technology, Engineering and Mathematics (STEM). Women have played an important role in the history of Boeing. At the company's inception in 1916, founder William Boeing hired seamstress Rosie Farrar to stitch together linen wings for the early B & W seaplanes. Just two years later, Helen Holcombe joined Boeing as the first woman in the engineering department.

In 2018, Boeing and The Boeing Charitable Trust partnered with more than 140 STEM organizations and contributed over \$19 million toward community initiatives that helped inspire an estimated 630,000 young women in STEM.



Published on August 7, 2019

Share This Article

How does a space program from 50 years ago affect the cutting-edge spacecraft set to take flight in 2019?

f 🎐

Just ask Chris Ferguson, a Boeing astronaut who commanded the final space shuttle mission, who is now slated to fly on the Starliner. The veteran astronaut says that the work done on Apollo 11 continues to inspire the engineering behind the Starliner today.





Ferguson discussed how watching the coverage of Apollo 11 as a kid inspired his career as an astronaut, driving him to sketch his own spaceship designs and pursue a career as an astronaut.

"I remember Walter Cronkite, being with my parents, and making little sketches — modules, rockets, and astronauts. I was just a young boy taken up with the coolest thing that seemed to be going on in the world."

With the 50th anniversary of Apollo 11 in the rearview mirror, the Starliner is set to take center stage in America's race to enter the new space age.

Learn more about Boeing astronaut Chris Ferguson and the Starliner.

BOEING PLAYED A KEY ROLE IN HELPING AMERICAN ASTRONAUTS LAND ON THE MOON

Published on July 30, 2019

Share This Article:



50 years ago, the Apollo 11 mission landed astronauts on the Moon for the first time. Boeing was an integral part of the team that got them there, including leading roles on its predecessor programs, Mercury and Gemini.

NASA turned to Boeing for help with every aspect of the Apollo program, from the launchpad to the Moon and everywhere in between.

Boeing led the development of the first stage of the massive Saturn V rocket, which remains the largest rocket ever launched. The first stage generated 7.5 million pounds of thrust to get the Apollo astronauts to the edge of space.



Boeing also spearheaded the lunar orbiter missions, robotic spacecraft that helped to identify the safest sites on the Moon for landing American astronauts and equipment. These orbiters provided unprecedented scientific data that informed all final preparations for the historic Apollo 11 landing.

That's not all. Boeing even helped develop the lunar rover, which was the first electric car in space and changed how humans traveled on the Moon.

The lunar rover was only available for the final three missions to the Moon, but it allowed the Apollo 15 astronauts to go farther on the Moon than all other moon-walkers combined.



BUILD AIR TAXI

Published on July 18, 2019

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Can you imagine a world without traffic?

No more road rage, fender benders, or sitting on the freeway for hours at a time.

Boeing has joined forces with Kitty Hawk Corp to create a self-piloted air taxi designed to change the way people move arrund cities.

Kitty Hawk Corp is named after Kitty Hawk, North Carolina — the town where Orville and Wilbur Wright took flight for the first time. Their mission is to create electric transportation solutions that will help free people from traffic and help to reduce our carbon footprint.



Boeing and Kitty Hawk are currently working on Cora, a 2-person electric autonomous air taxi that takes off like a helicopter and flies like a plane. Cora is designed to reduce urban traffic and decrease carbon footprints across the world.

Being and Kitty Hawk's partnership brings endless possibilities for the development of urban travel. Steve Nordlund, vice president and general manager of Boeing NeXt, explained that "[w]orking with a company like Kitty Hawk brings us closer to our goal of safely advancing the future of mobility."



Published on July 11, 2019

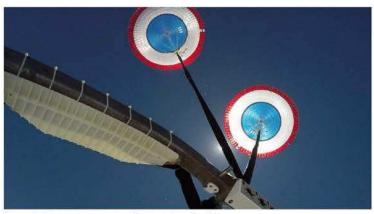
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American space programs are getting closer to putting an American astronaut back on the Moon

f y

Boeing's Starliner space capsule just completed its final and most challenging set of parachute tests. The capsule successfully landed at the U.S. Army's White Sands Missile Range after being dropped from a balloon at 40,000 feet with two of its five parachutes disabled.

In a further test, the Starliner was **dropped from a Boeing C-17 Globemaster III over Yuma Proving Ground in Arizona**. This test was conducted with a 20% overload, using parachutes that had already flown multiple times.



These critical tests are in preparation of Starliner's future first flight.

What's the next step for the Starliner?

An uncrewed Starliner is set to be launched from Florida's Kennedy Center on a United Launch Alliance (ULA) Atlas-V rocket with a crewed launch planned for shortly thereafter.

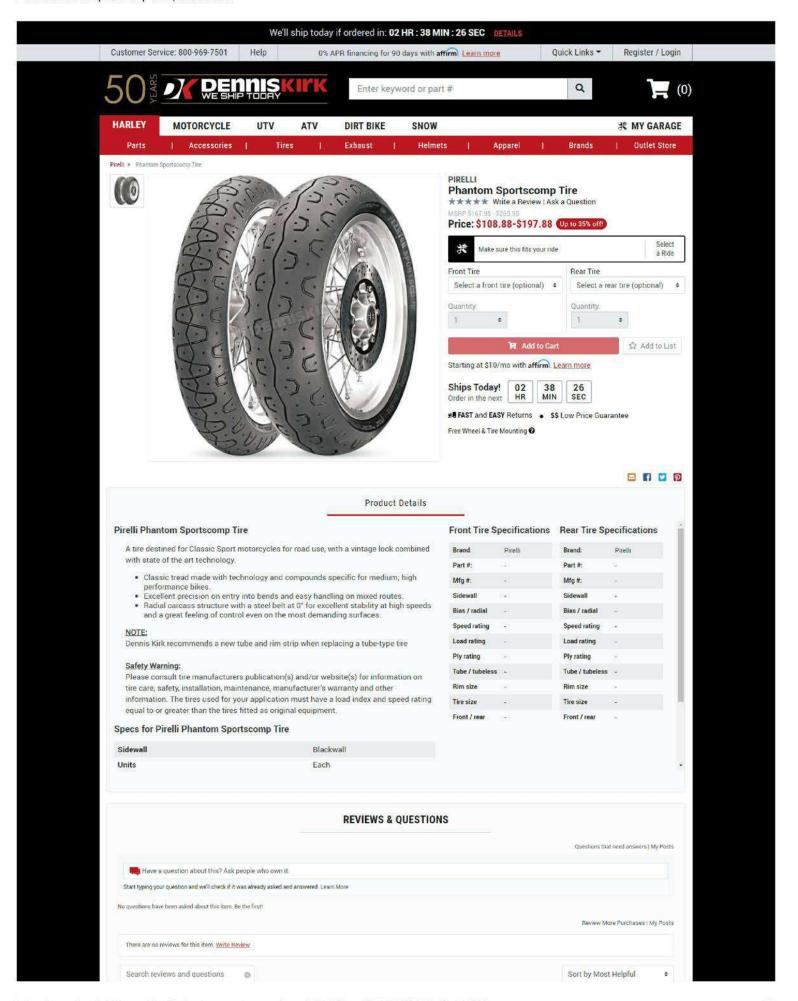
Astronauts Chris Ferguson, Mike Fincke, and Nicole Mann are scheduled to be the first crew aboard the Starliner flight – which will make them the first U.S astronauts to launch from U.S soil since 2011.

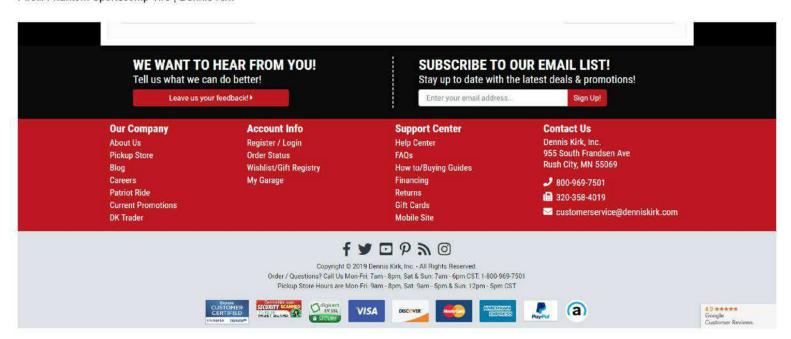
Making History Times Two

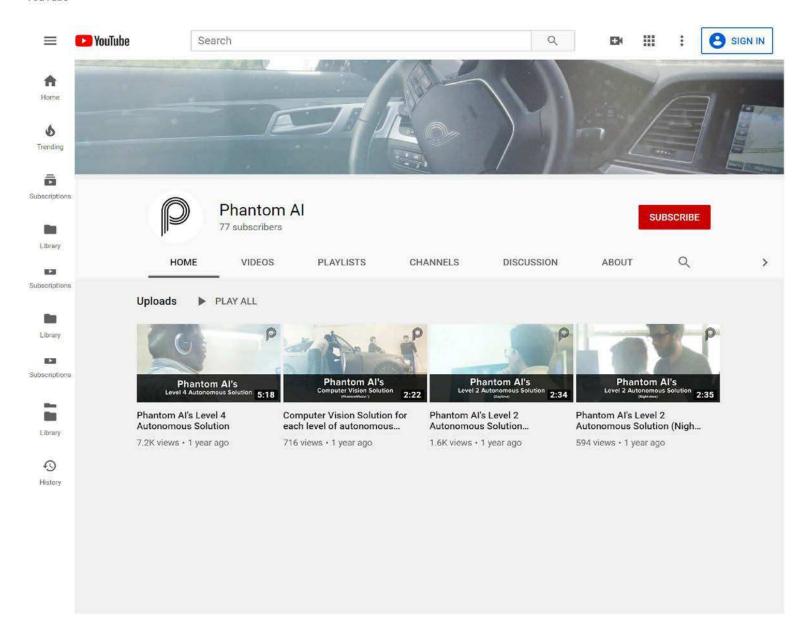
Astronaut Nicole Mann will also be making history as the first female astronaut aboard the first flight of a new space vehicle.

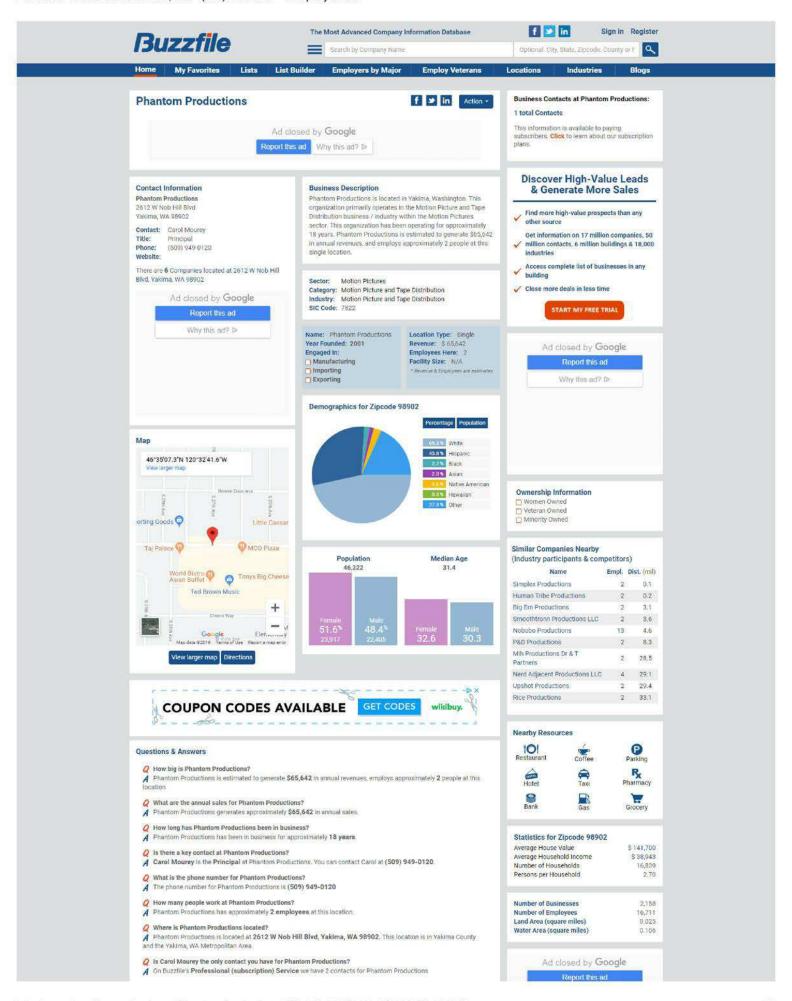


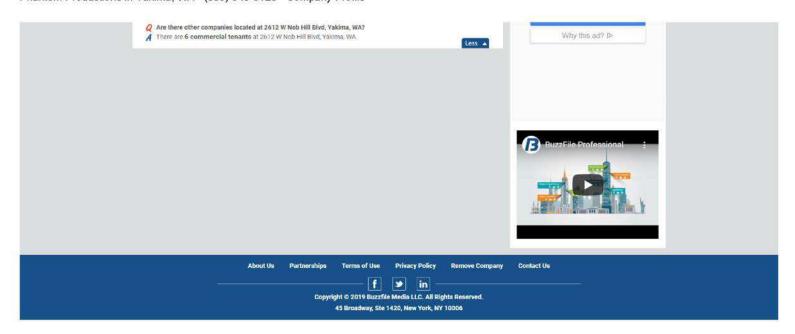
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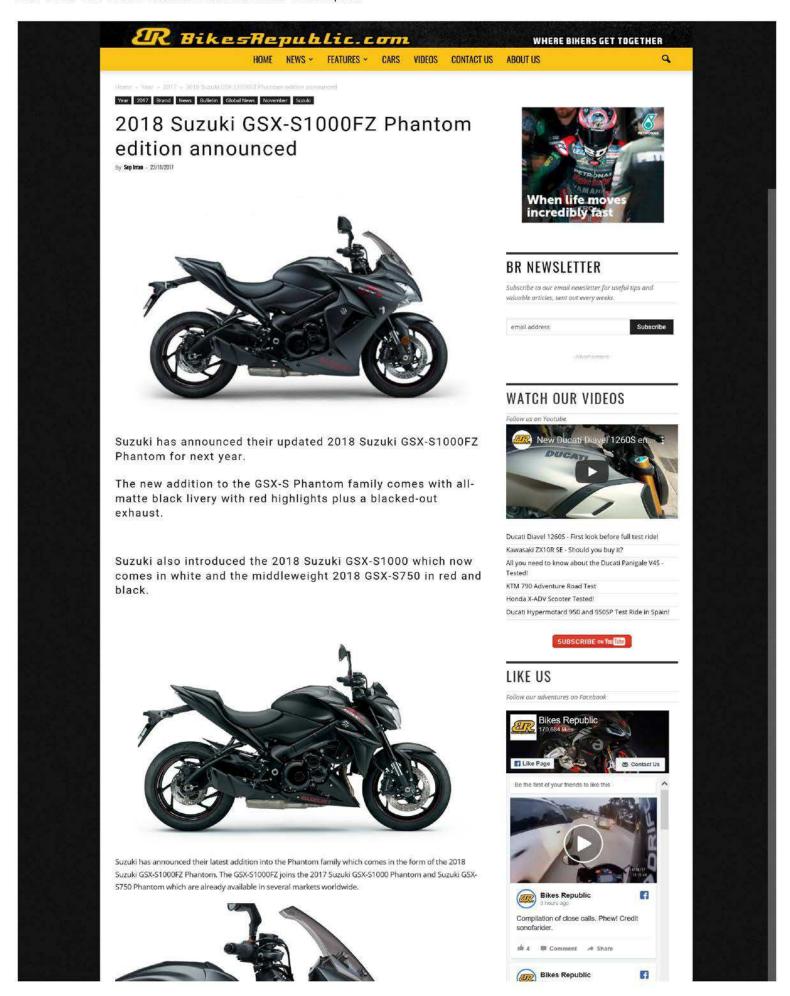














The new 2018 GSX-S1000FZ Phantom comes in all-matte black paint job with fine red highlights to bring out the inner demon of this super sports tourer. Although there's already a Suzuki GSX-S1000F Phantom releasedbefore this, this new model earned its extra 'Z' letter at the back with a significant new part to differentiate between the two; a black exhaust.



Powered by the iconic Suzuki GSX-R1000 K5 power plant, the new Suzuki sports tourer has been retuned and refined for a more controlled power and the low and middle rpm range to provide extra control and stability while haunting down city streets.



The engine maintains the same setup as the 2017 models with 150hp at 10,000rpm and 108Nm of torque at 9,5000rpm. Together with a reworked assist-and-slipper clutch, the new 2018 GSX-S1000FZ is said to be more dignified machine, provided that you don't twist the throttle all the way to release its inner demon. After all, it is powered by a one-litre Gixxer engine.





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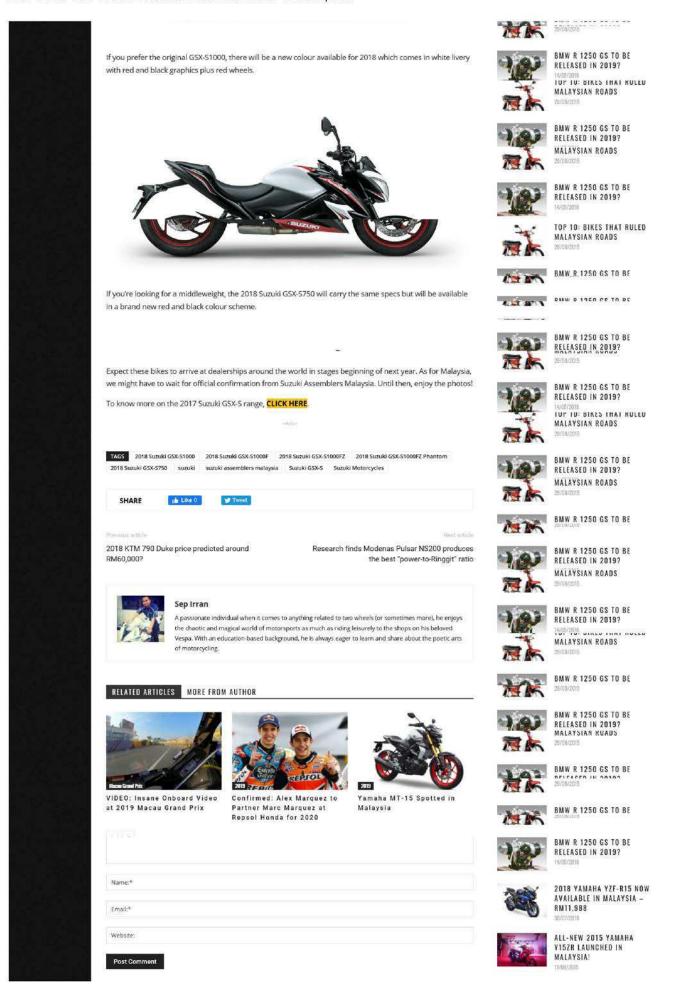
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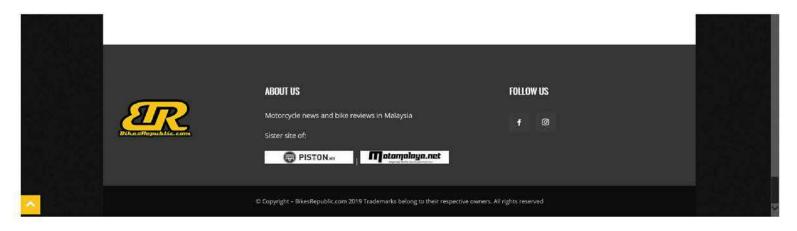


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BMW R 1250 GS TO BE







HALEYVILLE, ALABAMA -- Fontaine Trailer, the recognized technology leader in the flatbed trailer industry, offers two aluminum flatbed trailer models: Phantom and Phantom X.

Both feature a main beam design that is completely different from anything on the market. The patent pending design consists of an extruded aluminum main beam that eliminates welding between the web and the flange. The massive 12" flange is integral to the main beam and virtually eliminates flexing—even when the trailer is cornering under a full load!

Phantom trailers feature an 80,000 lb beam rating and can handle 68,000 lbs in four feet. Phantom X trailers are reinforced to a 110,000 lb beam rating and can handle 73,000 lbs in four feet and 70,000 lbs in just two feet.

Fontaine Trailer Company produces a complete line of aluminum, steel and composite trailers for the flatbed, dropdeck and lowbed markets. Manufacturing facilities are located in Haleyville, Jasper and Springville, Alabama; Kent, Ohio; and Princeton, Kentucky. For more information contact Toby Harris, Fontaine Trailer Company, 430 Letson Road, Haleyville, Alabama 35565. 800-821-6535 • fax 205-486-8985 • www.fontainetrailer.com

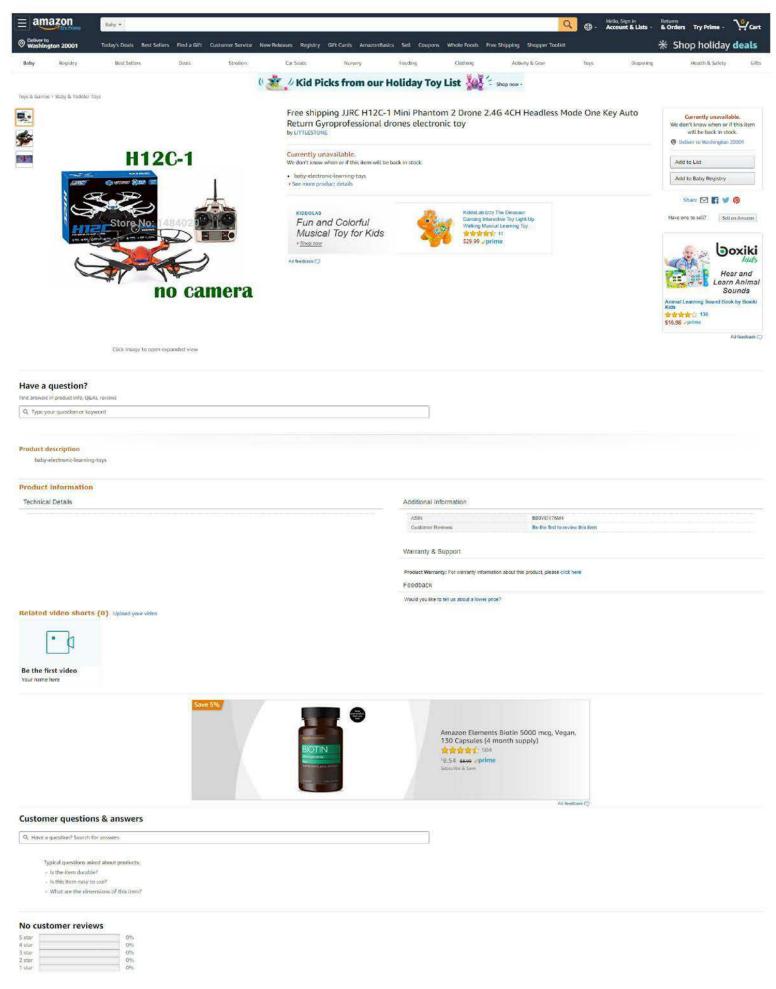
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Fontaine Trailer Company, headquartered in Jasper, Alabama, is a Marmon Highway Technologies company that is the leading North American manufacturer of platform trailers. Marmon Highway Technologies companies support the transportation industry worldwide with a wide range of high quality products and services.

Marmon Highway Technologies companies are members of The Marmon Group, an international association of manufacturing and service companies with collective sales approaching \$6 billion.



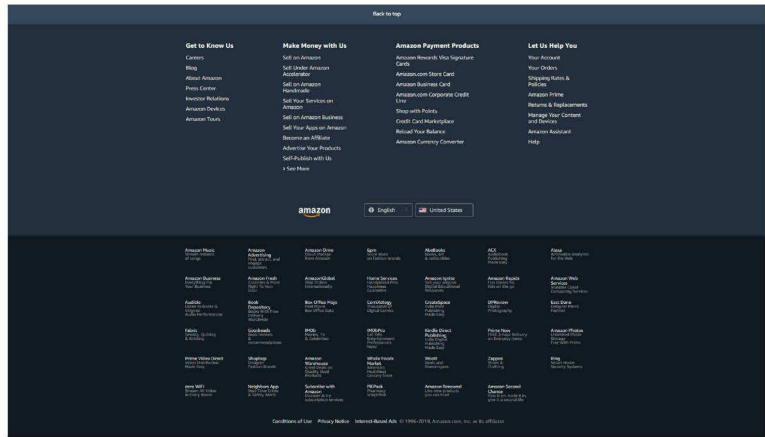
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Photo of the day

Phantom's one man aircraft factory

DECEMBER 23, 2014 BY GENERAL AVIATION NEWS STAFF

By BILL WILSON

The phone rings at Phantom Aeronautics in Three Rivers, Michigan. A customer is calling the kit aircraft company with a request. There is a very good chance he or she is also asking about the new 4-cycle engine Phantom is in the midst of testing.

The milling machines, lathes, inventory control and office functions at the factory grind to a halt and the entire focus of all personnel is directed toward handling the caller's problem. Talk about customer service! Even better is that the caller is guaranteed to be talking to the one person who can answer all questions from personal experience.

That's because there is only one person in the factory and he is no phantom. Jim Bennett is real and he knows every nut and bolt in the kit he produces, where it goes and what it does. Jim is a one man airplane factory.

"There are 270 line items in the Phantom kit," he says. "And I pull, machine, assemble and ship every one of them to our buyers."

Jim Bennett

And he wouldn't have it any other way. It's a dream job in many ways because Jim enjoys being the central point of contact for Phantom.

"There's no time to feel lonely, despite the fact that I'm here by myself all day long," he says.
"I talk to people all over the world who need guidance, parts and advice on their Phantoms and, increasingly, similar out of production aircraft like Flightstars and Hurricanes."

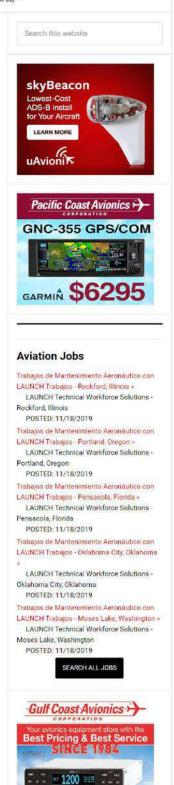
That speaks volumes about Phantom's longevity. First designed in the 1980s, the Phantom has evolved through six changes of ownership, various locations around the United States, and several model and engine changes. But the basic aircraft, now known as the X-1, looks very similar to the original. Perhaps that's why there are around 1,500 Phantoms in some form of airworthiness around the world.

Unlike some former competitors, the Phantom is still healthy and evolving. Owned for the last 11 years by Erik Pederson, a PhD engineer and pilot who lives in the area, Phantom is offering new designs and revisions to the original, such as strut-braced wings. Pederson comments that the struts were offered for pilot-builders who had some trouble negotiating entry and exit to the cockpit and to alleviate problems with hangar door openings that were too low for the king post used in the wire braced version.



The Phantom is usually built as E-AB, Experimental-Amateur Built, with a 40- to 65-hp engine.

Fresh out of the design shop, Phantom has been testing the Valley Engineering 4-cycle 50-hp air-cooled engine that promises to be popular with builders who have been waiting for reliable 4-cycle power. The first reports are positive and Jim is excited about being able to offer an affordable alternative to his builders who are cautious about installing 2-cycle power. The engine weighs about as much as a Rotax 582, but costs close to the new price of



Stratus ESG \$2995

the now discontinued Rotax 503, Erik designed and Jim machined a new engine mount to add beef to the airframe.

With New Engine

Although E-AB is the normal certification, a very basic X-1 with an MZ 201 engine can qualify as a legal ultralight. There is virtually no difference in the airframe between the ultralight and the E-AB single seat models, so even the lightest weight versions of the aircraft still feature an ultimate G-force of +9/-6. The Phantom airframe is so strong some owners have even done aerobatics in their aircraft, although the factory does not officially advocate such activity.

Because of its weight and speed, the Phantom can be flown in the light-sport aircraft (LSA) category. Is there a special LSA factory built Phantom in the future? Pederson says at some point there will be. That would allow kits to be built to the exact specifications of the S-LSA and be certificated in the E-LSA category, which would allow owners to perform their own maintenance and inspections after taking an FAA-approved 16-hour light sport repairmaninspections course.

"We believe in owner-builders," says Jim. "I think it is really important that the people flying the Phantom know all about how it's put together."

To that end the factory encourages kit buyers to spend some time at the Three Rivers facility where their building efforts can be monitored by Jim, who adds this duty to his already focused workload.

Anyone who has been around the kit built industry realizes that some of the nicest work you see is performed by builders who are machinists. Jim came to Phantom after a long career in machining and has been able to use his years of experience to create necessary parts and assist kit builders.

When an order is placed, Jim begins by pulling various widths of 6061 T-6 aluminum tubing, cutting them to length, and drilling, bending and notching each tube to fit the pattern. He knows that each machining operation is critical to the success of the aircraft's bolt together assembly, or else he'll be on the phone with an unhappy builder and there won't be anyone else to blame.

It usually takes six to eight weeks from the buyer's deposit to deliver the completed kit. If the aircraft will be fully or partially assembled at Three Rivers, no shipping is involved. Otherwise the kit will be delivered to the buyer's designated location. Recently that has been overseas almost as often as within the United States.

While assembling and prepping kits, Jim is kept busy taking care of exotic parts problems that come from owners trying to restore a Phantom or similar tractor-configured aircraft to flight. Pilots flying Flightstars and Hurricanes, for example, have problems from time to time finding parts that fit their needs. Jim has the flexibility to spend some quality telephone time with these folks, using his special knowledge of their type of aircraft to actually create a solution from an oral description and a block of aluminum.

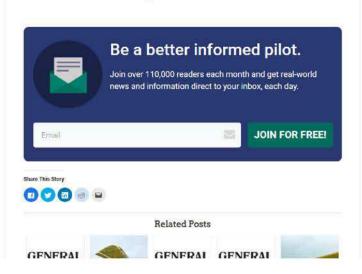
"You can hear the excitement in their voice when they realize that I really do understand what they need and I will be shipping them a part that will return the aircraft to flight" he says.

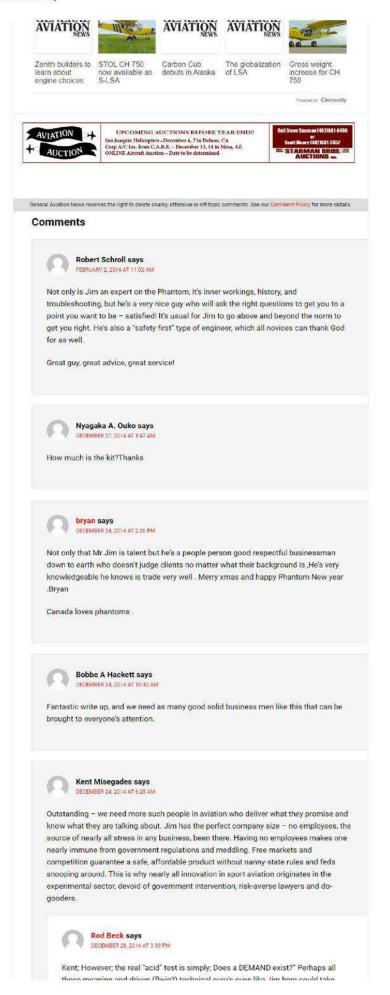
Jim estimates that in addition to the entire aircraft kits that the company selfs, he annually ships another 10 aircraft worth of parts.

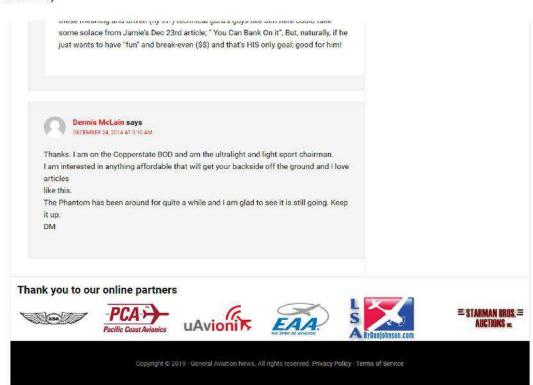
Phantom has earned an enviable position in the world of light aircraft by enjoying continuous production despite its ownership changes. That means innovation hasn't lacked and new ideas roll into the design at a steady rate, like the new 4-stroke engine option.

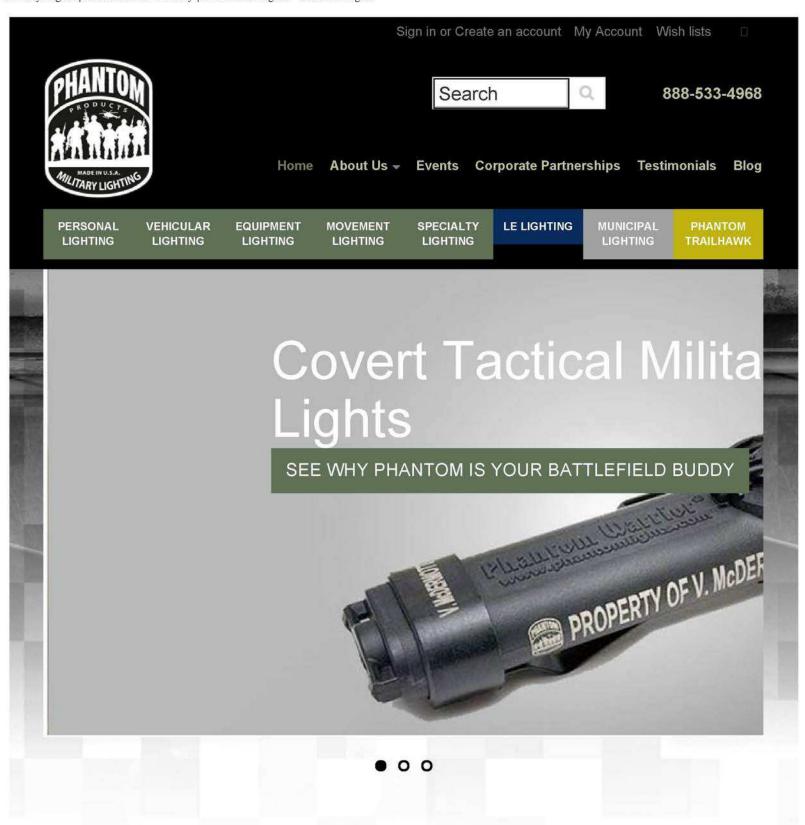
If you feel the need for speed, don't build a Phantom. But if luxuriously hanging above the earth's tapestry is appealing, a call to Phantom's one man wonder might be worth it.

For more information: 269-271-4568, PhantomAero.com









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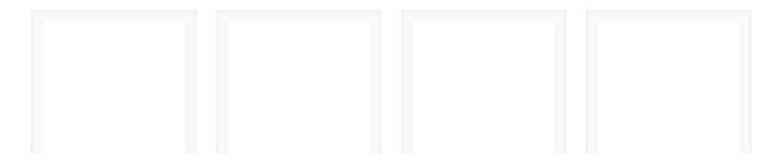








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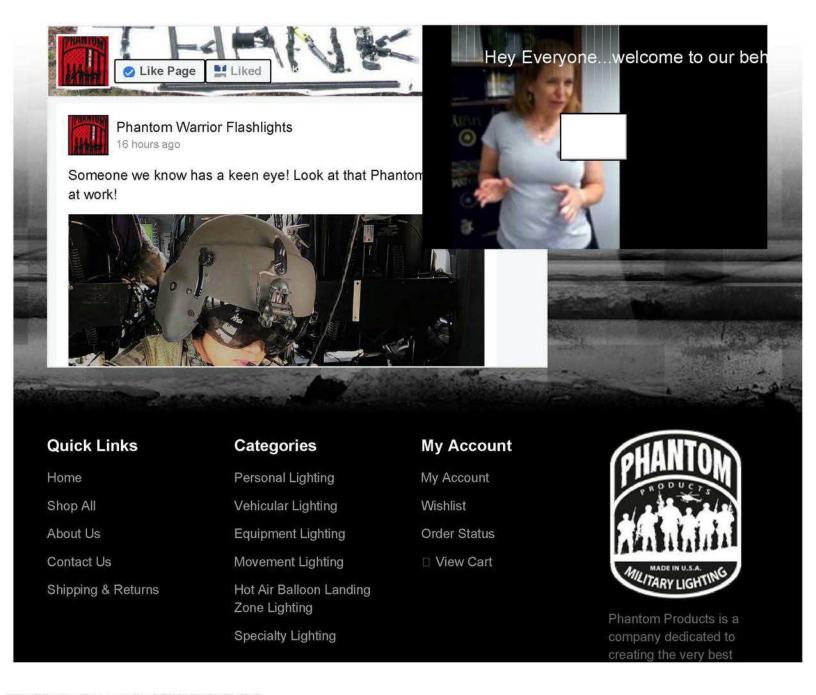






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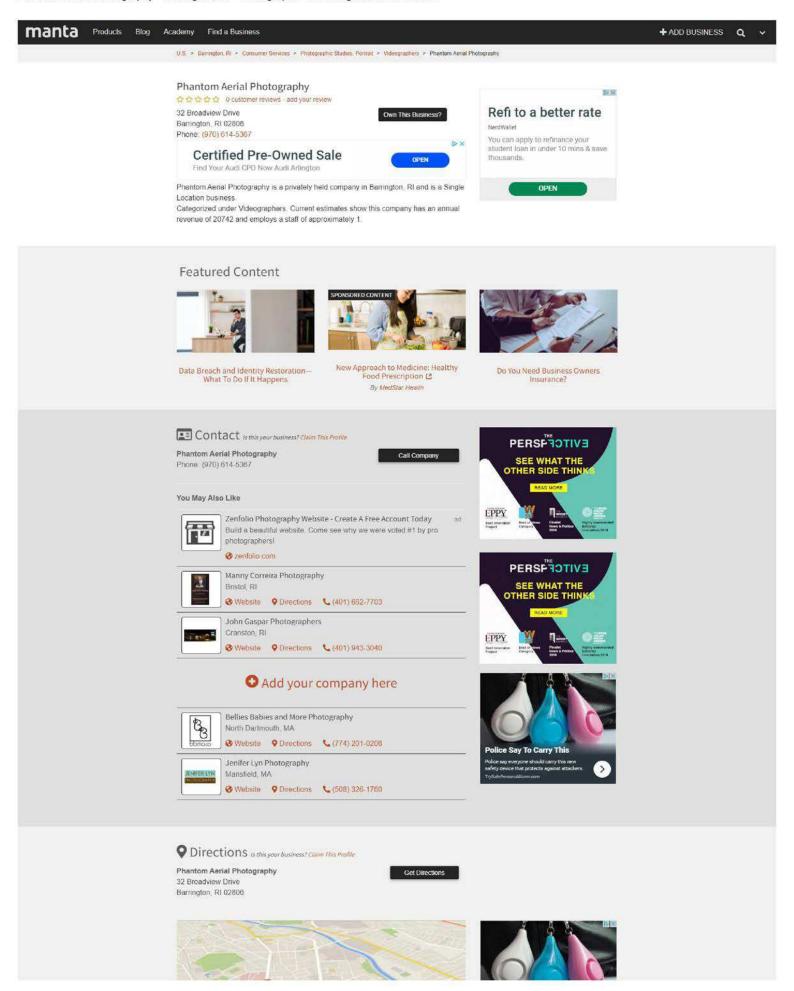
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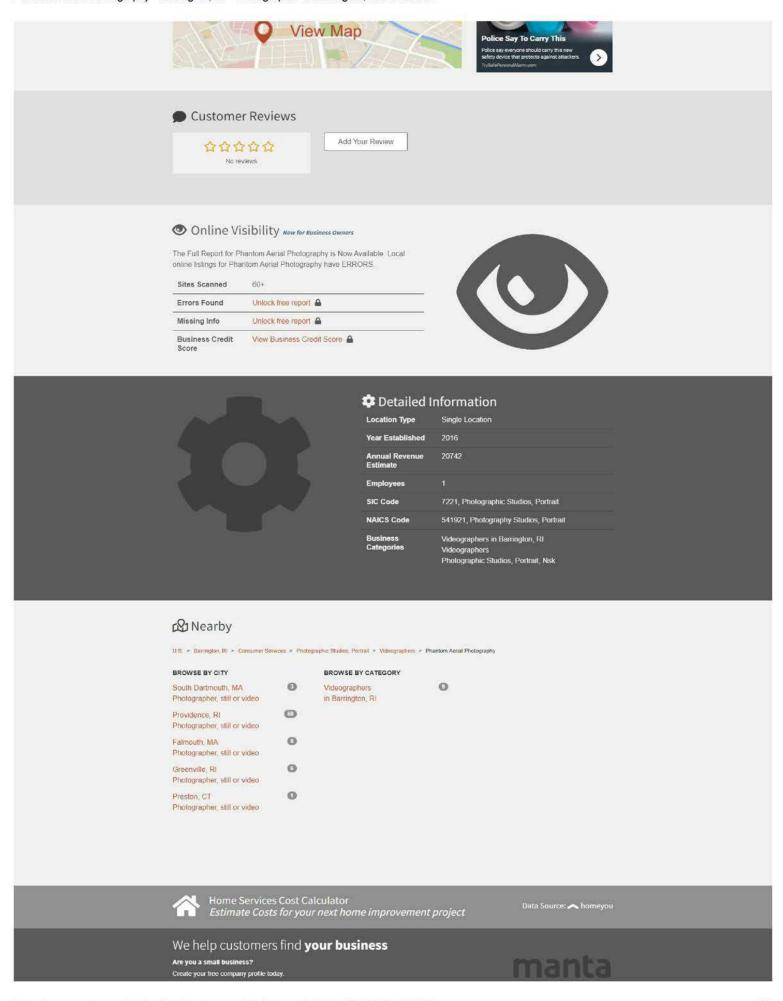


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Phantom Aerial Photography - Barrington, RI - Photographer in Barrington, Rhode Island





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Phantom AI has developed a robust level 2 solution with automotive reliability designed in from the beginning. Starting with comprehensive system requirements, each fault-tolerant subsystem is constantly validated through the use of simulation and real-world

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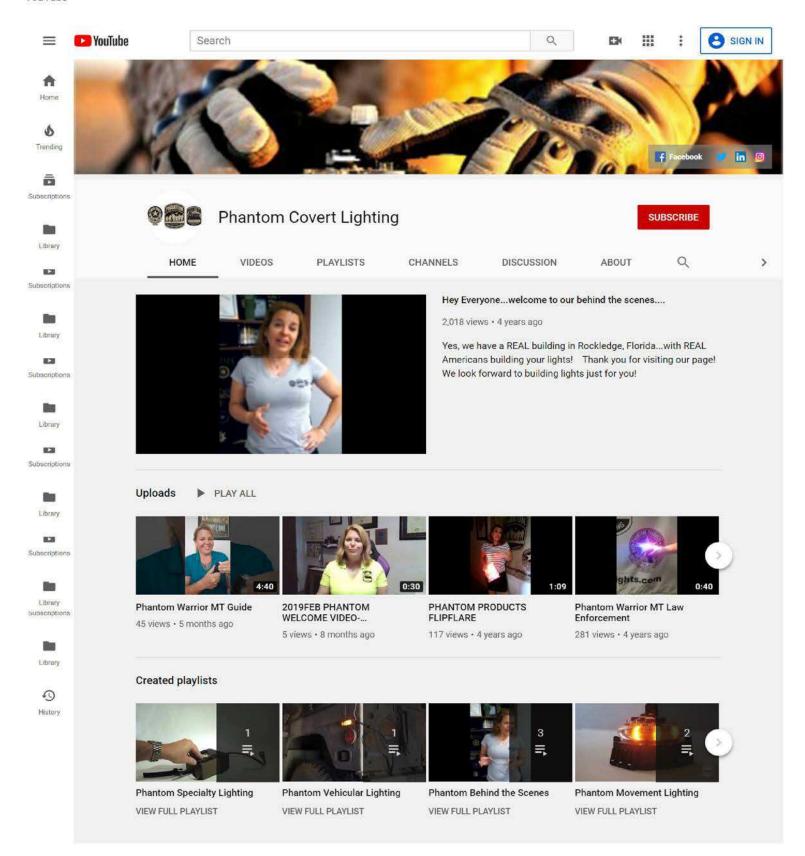
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Phantom AI sees a future in mobility-as-a-service. By extending the features and capabilities already present in the Level 2 software stack, Phantom AI is developing an optimal platform and sensor suite for level 4 functionality.





Phantom Al © 2018



Bushnell

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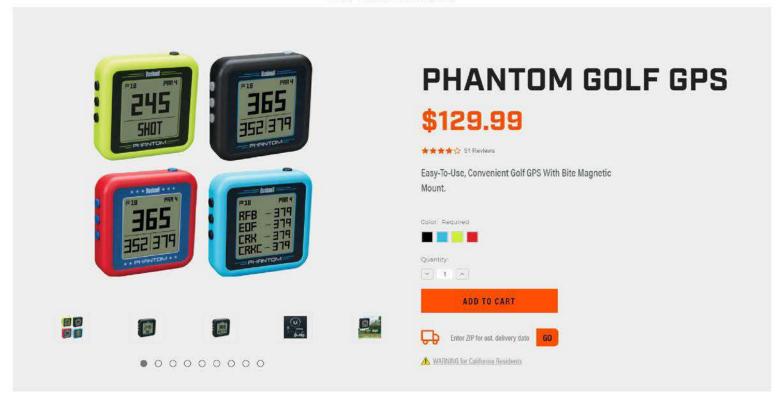
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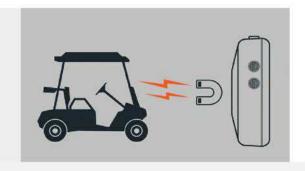
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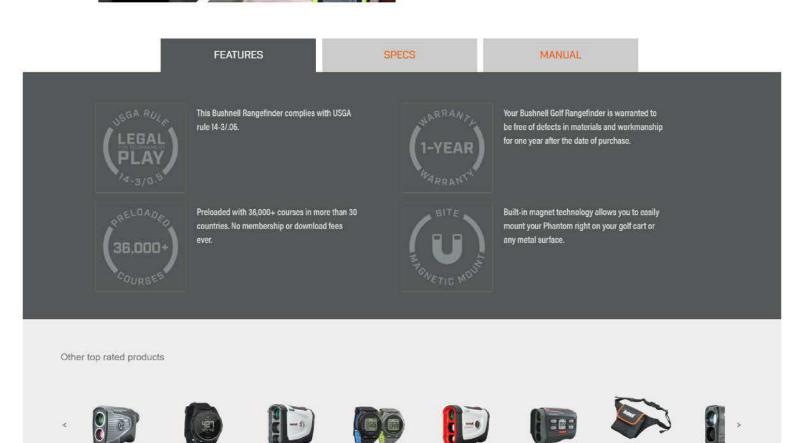
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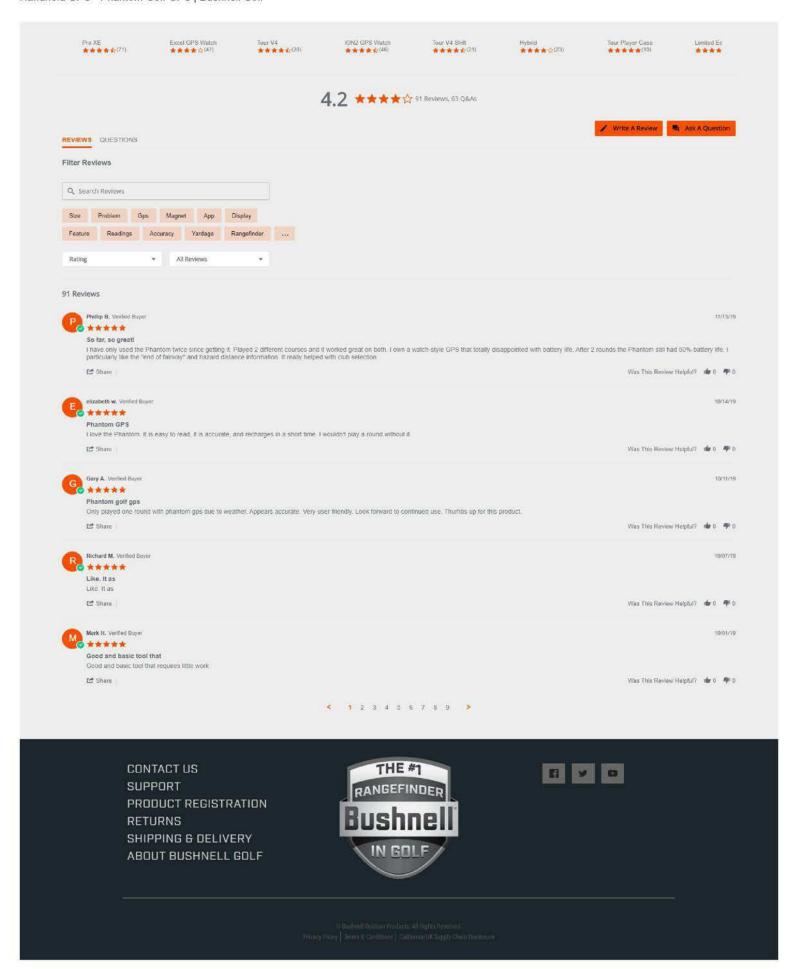




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Vera Tech Phantom Sentinel

From Wikipedia, the free encyclopedia

The **Phantom Sentinel** was an American unmanned aerial vehicle developed by **VeraTech**Aero. Utilising a "boomerang" design, the Phantom Sentinel was designed to be nearly invisible.

Driven by electric-engine propellers, the rapid rotation of its entire body during flight meant that persistence of vision would render it translucent in the same way as fan blades.^[1] First flying in 2006, [citation needed] the Phantom Sentinel was designed for hand launch and was equipped with a high-speed camera providing 360-degree video coverage.^[2] It was electrically powered and designed to have an endurance of 40 minutes.^[1]

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- 1. ^{A a b} Thompson, Clive (December 10, 2006). "The Boomerang Drone" ₽. The New York Times.
- Rutherford, Mark (April 20, 1997). "Throw-and-go 'invisible' UAV" . CNET. Retrieved 2013-08-10.

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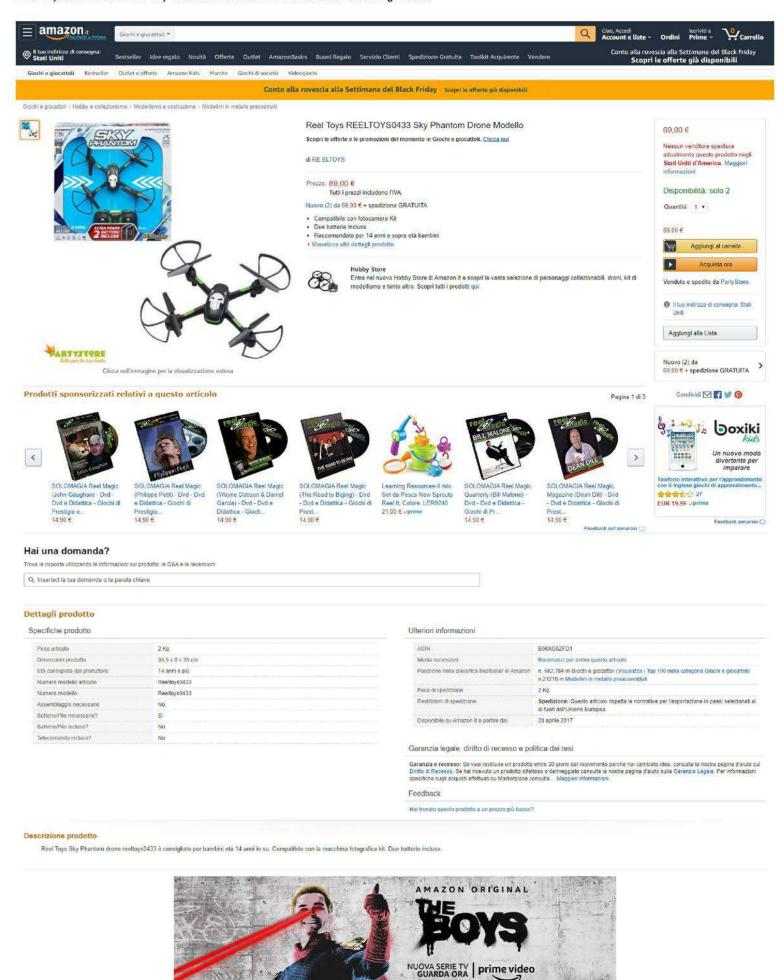
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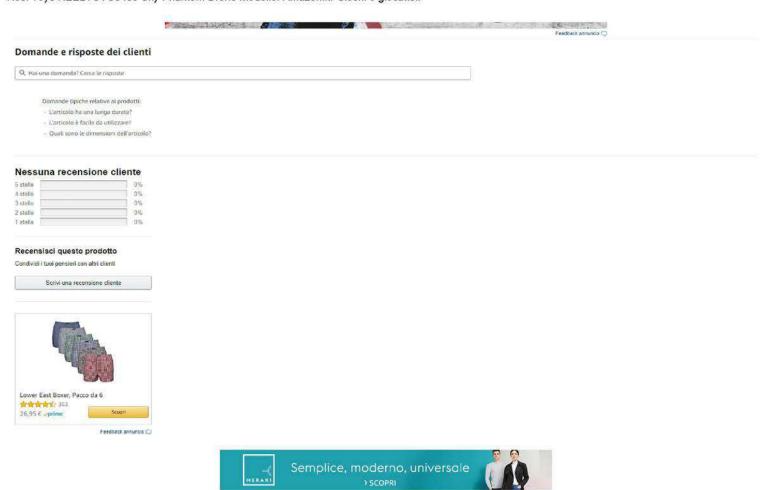
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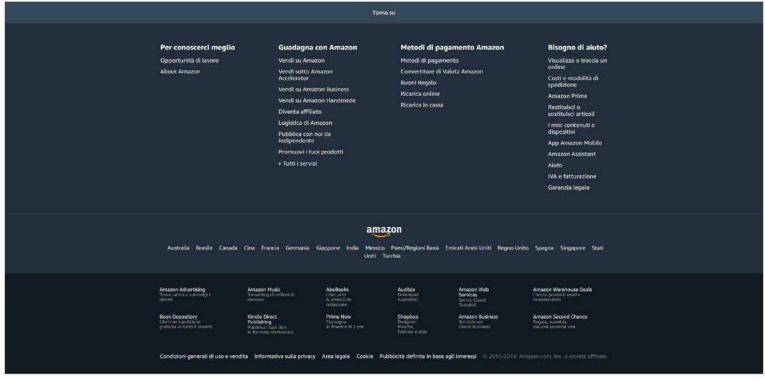


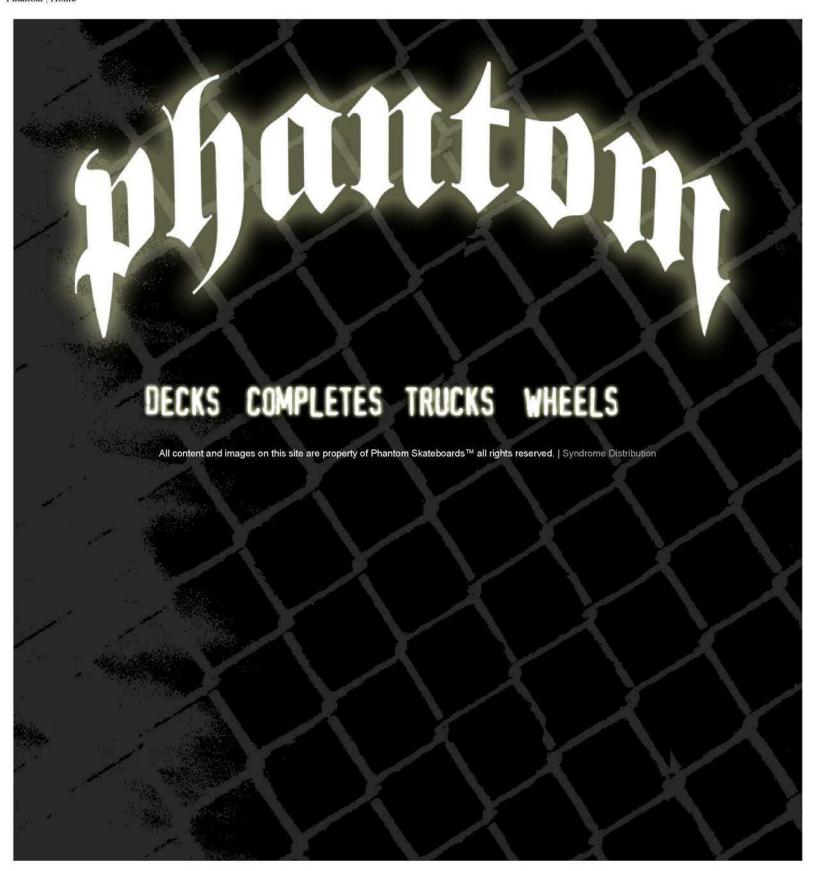






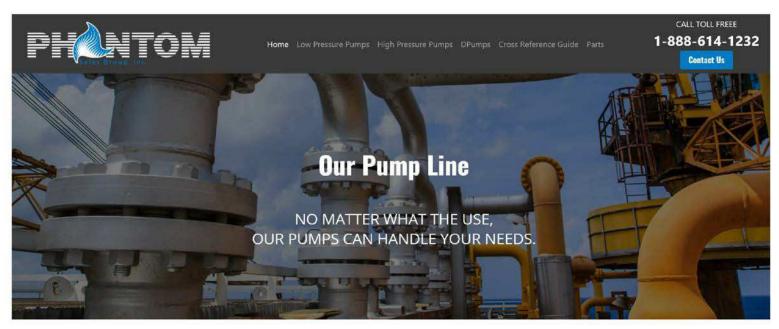














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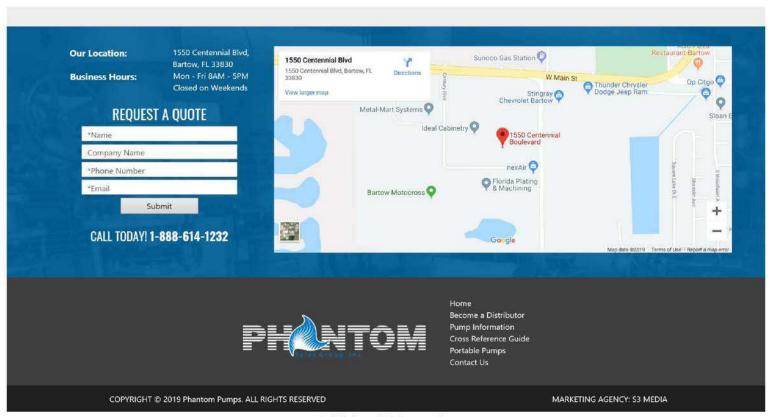
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Design team Phantom Int. Gonzalo Redondo D3

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Weight 165kg
Mast 9,1m aluminum

Hulls construction | Epoxy glass, carbon reinforced sandwich

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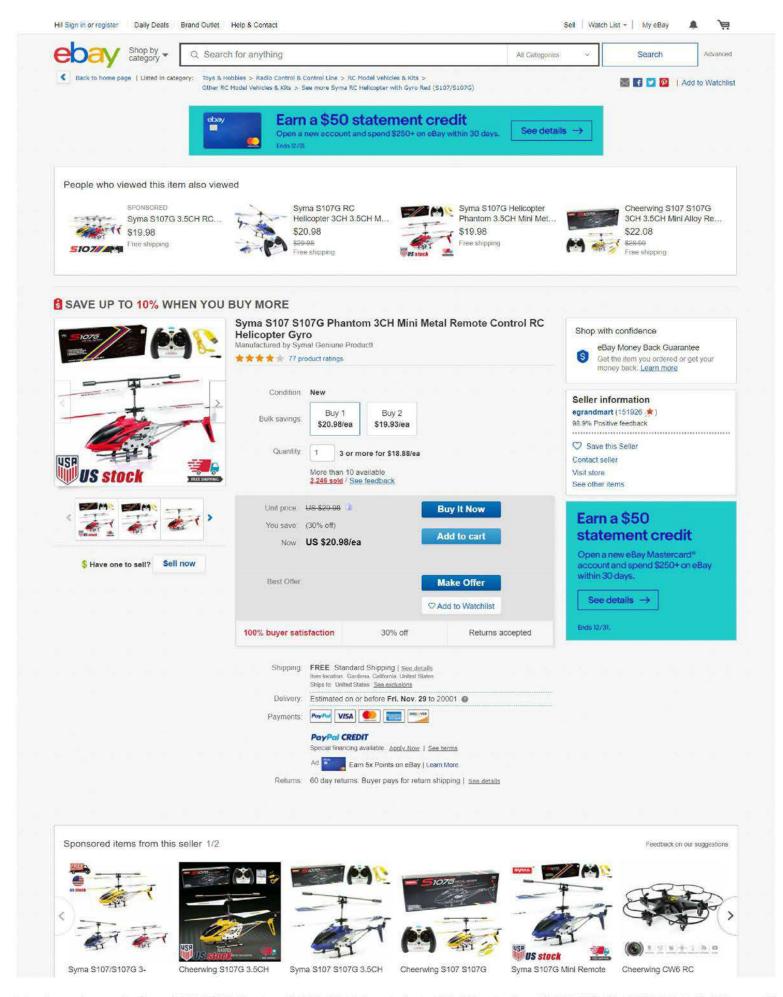


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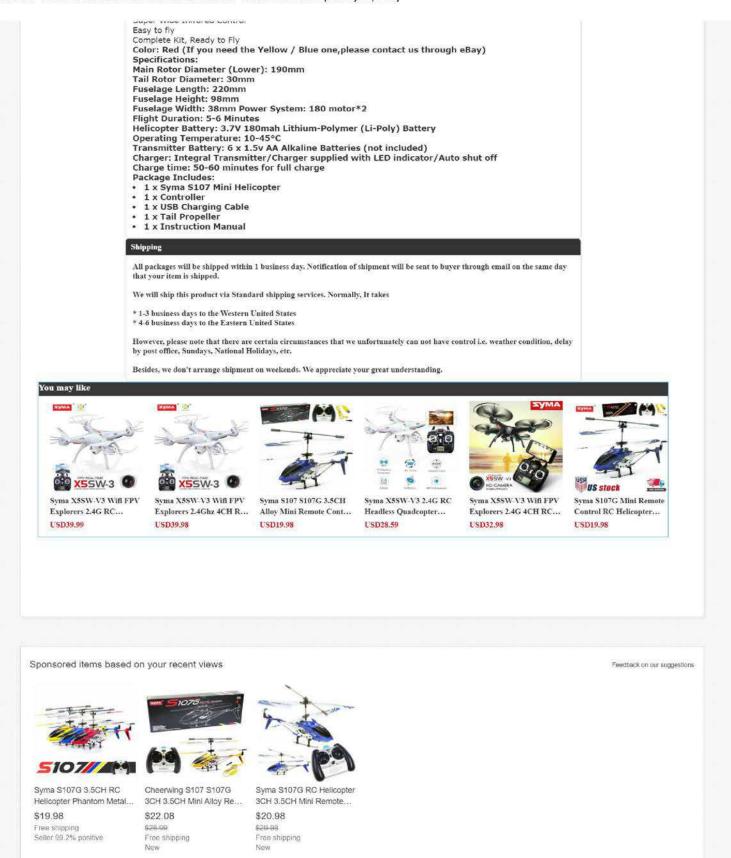


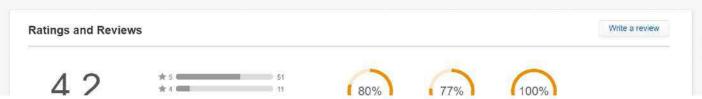
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Channel 3.5CH Mini Rem... Phantom Mini Metal Rem... Alloy Mini Remote Control... 3CH 3.5CH Mini Alloy Re... Control RC Helicopter 3.5... Hexacopter Mini Remote... \$20.98 \$20.98 \$19.98 \$22.08 \$19.98 \$28.98 Free shipping \$29.99 \$28.84 \$28.99 \$29.98 \$31.98 Free shipping Popular Free shipping Free shipping Free shipping Free shipping Popular Popular Popular Popular Description Report item Shipping and payments eBay item number 291061427848 Seller assumes all responsibility for this listing. Last updated on Nov 04, 2019 00:43:56 PST View all revisions Item specifics New: A brand-new, unused, unopened, undamaged item (including handmade items). See the seller's ... Read more Condition Fuel Source: Flectric Material: Metal State of Assembly Ready-to-Go Color Boys & Girls Red Gender Ready to Go/RTR/RTF (All included) Required Assembly Type Helicopters MPN. Model: S107 S107G Toy Grade Fuel Type Electric Model Grade UPC: Brand: 888309050137 Syma **Egrandmart** Visit my eBay store Syma S107 S107G Phantom 3CH Mini Metal Remote Control RC Helicopter Gyro Description This Brand New 3 Channel mini rc helicopter is the world's newest, most durable and stable helicopter. The Item comes with thelatest gyro system for precision control. The metal frame has proven to withstand dozens of crashes. The mini helicopter charges directly from the controller which uses "AA" batteries and has a full-function trim control for the perfect flight. Get one today before they all fly away! Features: 2 Selectable Frequencies Let's You Fly Up To 2 Helicopters At Once Upgraded metal frame for durability Upgrade gyro system for precise control
3-channel, Infrared Control (Allows for Forwar/Backward, Left/Right, Up/Down movements) Auto Stable & Precision Speed Miniature Size & Light Weight Small Size Provides Agility and Speed Made of a Unique Material to Withstand Crashes Super Wide Infrared Contro

















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Battery life is pretty short...

Battery life is pretty short. less than 5 minutes, more like 3-4 minutes of full power, then a couple of minutes of low altitude flight, as in hovering only a foot off the floor, and continuing to get lower and lower till it skims the floor and needs a recharge. But it flies pretty well, stable, easy to control, and the hinged rotor blades make it resistant to breaking off in a crash.

Verified purchase: Yes | Condition: New | Sold by: buyer_bay







Top critical review

Did not work. The gears did not match.

Intricate but did not work

Verified purchase. Yes | Condition, New | Sold by, egrandmart









Intro to hobby for my Grandson

I am an avid RC Heli pilot and thought this an ideal way to introduce my 6 year old Grandson to the hobby. The Syma 107 is a well built, CRASH WORTHY, economical, good looking, easy to fly little bird. Parts are inexpensive. The Syma107 hovers easily and flies well around the living room (know this is not an outdoor heli). For younger 'pilots', it is a great first flyer. Older, more mature individuals more serious about exploring this hobby may want to consider helis like the Blade MCX2 as a starter. (Yes, I did 'put it through its paces' before wrapping it up for my Grandsonl) Verified purchase: Yes | Condition: New | Sold by: office-and-home1





great little helicopter

The directions mentioned its not an outside flyer/# I disagree. I go out at night and this little helicopter flies all over the yard. This helicopter is extremely easy to fly and is more stable then larger helicopters I've flown. I have over 30 flights on it in the week I've had it and the flights are averaging around 7 minutes with power to spare. I highly recommend getting one..for under \$20.00 its the best R/C helicopter for the price.

Venfied purchase: No







BEST RC EVER!

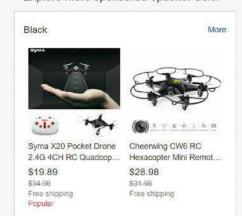
Okay so the S107G came in time. Looks exactly as advertised, if not better. As soon as light the box, I ripped it open, took everything out, plugged in 6 AA batteries into the remote, turned on the remote and heli...and the heli didnt flyIII Soo this is what you gotta do: Plug in the helicopter charger into the heli and to a computer. it looks like nothing is happening, but its charging. When the heli is done charging, the charger lights up red. To fly, turn on remote, turn on heli, but both on ground, make the blue box on the top of remote face the fail of heli. Wait 3 secs and you're ready to fly! It takes my heli. about 40 mins to fully charge and gives me 10 plus mins of flying time. I will defiantly buy again, and recommend to others. This was Read full review. Verified purchase: Yes I Condition: New I Sold by: allwinshop



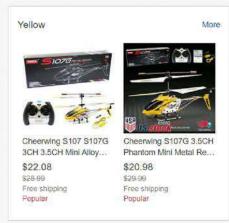


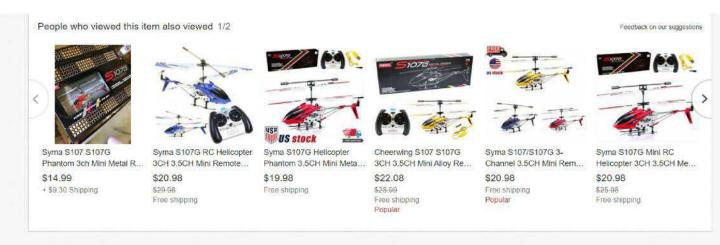


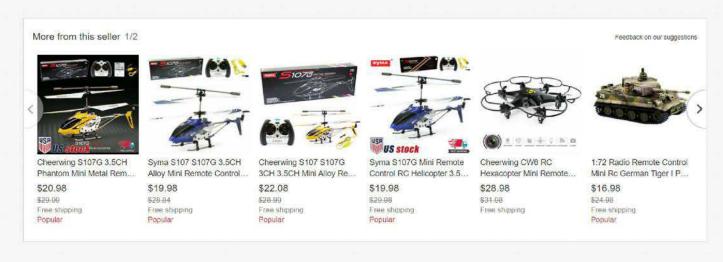
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7kingZ feat The Phantoms "Gloves Are Comin' Off" featured in NBA Finals!

If you'v been watching the NBA playoffs and finals, a killer song we collaborated on with 7kingZ called 'Gloves Are Comin' Off' is the featured theme songl Here's the official music video which just dropped! Find the song on Apple...

Read more

"Nothin' Like This" featured in new LEVI'S commercials!

"Take the World Vol. 1" Album Review by 24ourmusic.net CHECK IT HERE

New single "This is a War" featured in Person of Interest (CBS) trailer!



New Album "The Fight" RELEASED!



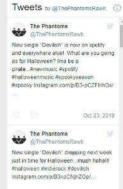
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Thanks everyone for gobbling up the limited "Take the World 1+2" Deluxe Vinyl, it is now SOLD OUT!



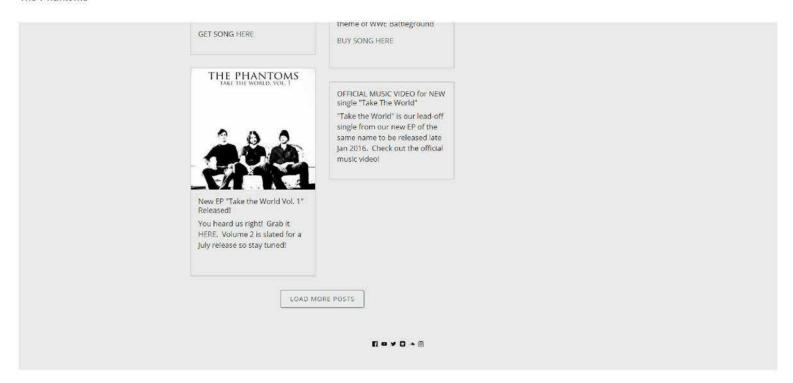
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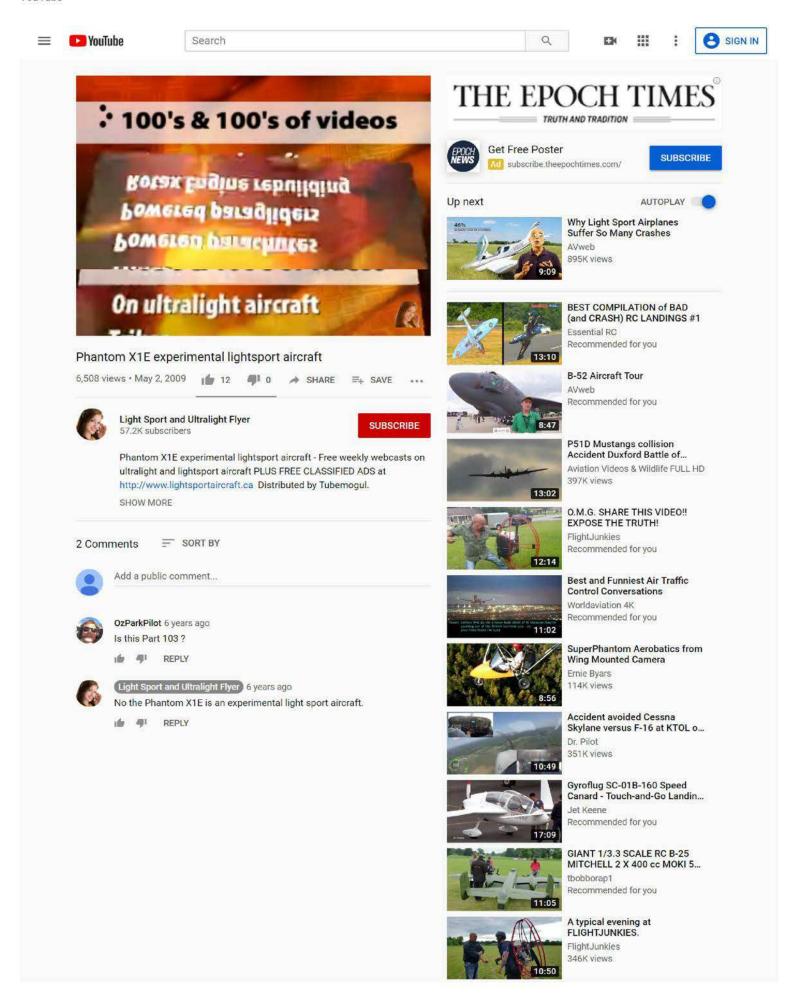
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Oct 18, 2019 The Phantoms
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5 Awesome back country





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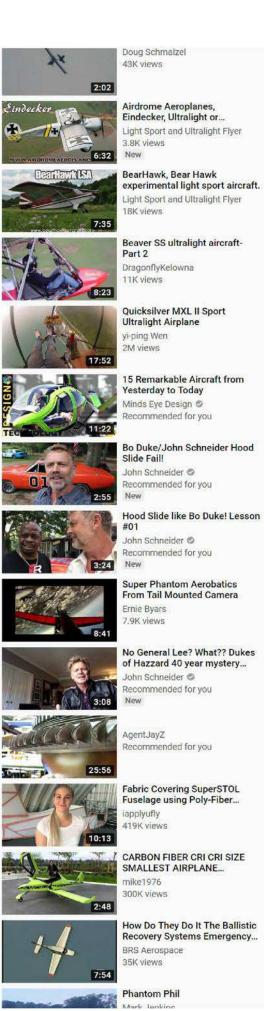


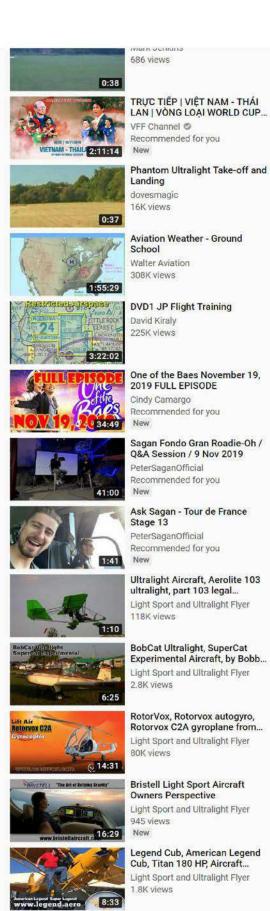
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COMPUTER VISION SOLUTION

Computer Vision Solution for Each Level of Autonomous Vehicles

Phantom Al's computer vision technology provides fundamental building blocks for autonomous vehicles. Armed with a Deep learning based detection front-end and geometry-based filtering back-ends, PhantomVisionTM can provide not only automotive reliable but also customizable and extensible vision solutions to Tier 1s and OEMs.

	Field of View	Application [Autonomous Vehicle Level]
Single-Camera Solution	45*	Level 1
Triple-Camera Solution	140"	Level 2
Six-Camera Solution	360"	Level 3 & 4



LEVEL 2 AUTONOMOUS VEHICLES

Phantom AI has developed a robust level 2 solution with automotive reliability designed in from the beginning. Starting with comprehensive system requirements, each fault-tolerant subsystem is constantly validated through the use of simulation and real-world

PhantomVision[™]: Deep-learning based computer vision solution

- US/Euro NCAP capable perception using three forward-facing cameras
 Support for vehicle, pedestrian, bicyclist, free space, traffic sign and traffic light

PhantomFusion": Modular sensor fusion solution

- Traffic environment recognition and prediction

 Camera and Radar based L2 solution, but configurable for a mixture of sensor

PhantomDrive™: Vehicle control solution

- Adaptive Cruise Control with cut-in vehicle handling Automatic Lane Keeping and Automatic Lane Change Automatic Emergency Braking : highway and city (pedestrians/bicyclists)





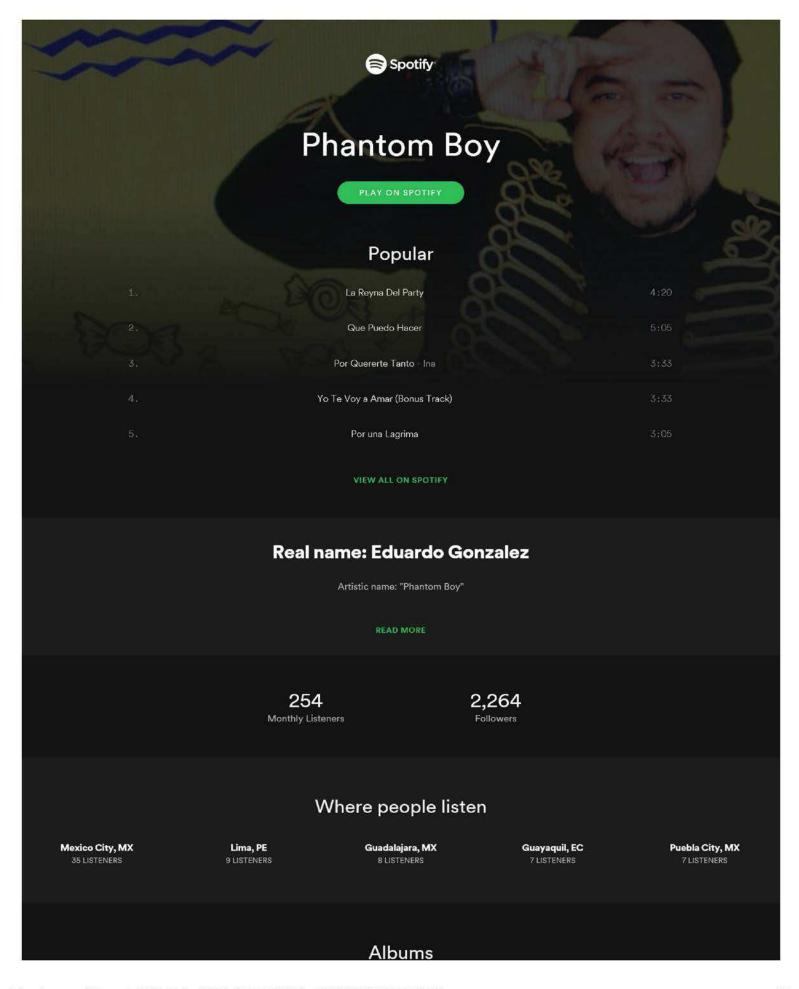
LEVEL 4 AUTONOMOUS VEHICLES

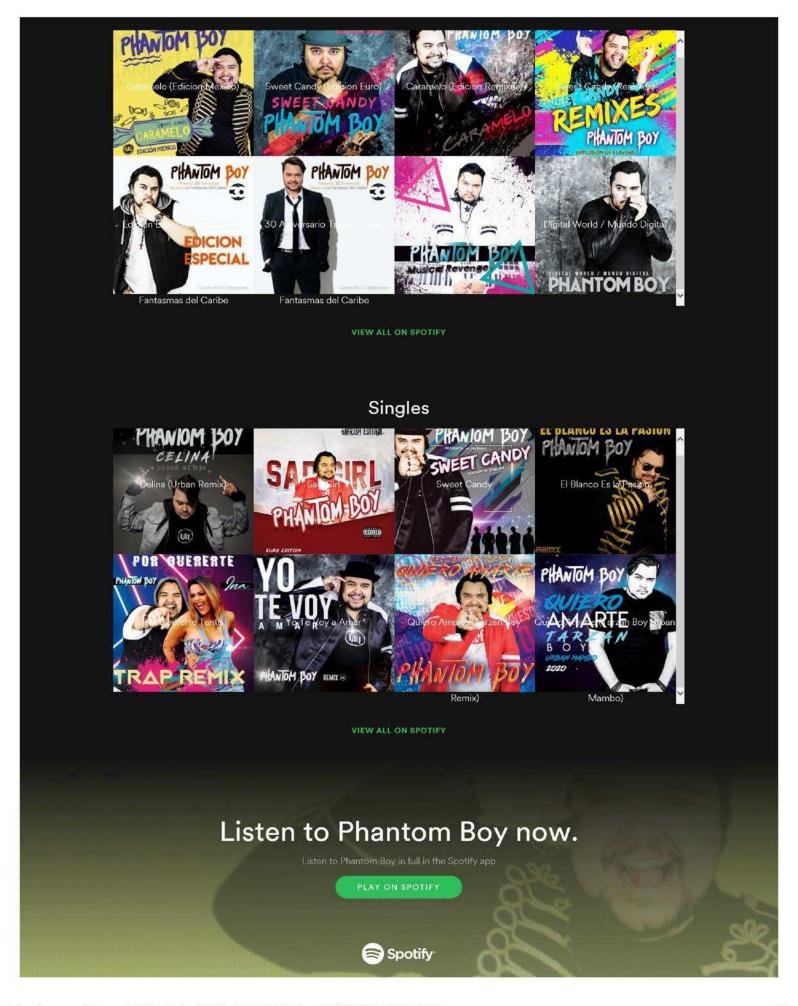
Phantom AI sees a future in mobility-as-a-service. By extending the features and capabilities already present in the Level 2 software stack, Phantom AI is developing an optimal platform and sensor suite for level 4 functionality.



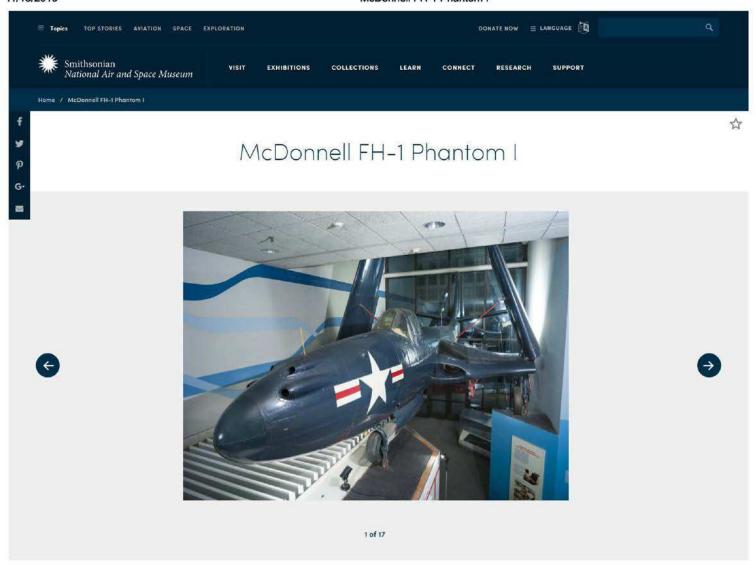


Phantom Al © 2018









Display Status:

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Summary Long Description

The McDonnell FH-1 Phantom was the first U.S. jet aircraft to take off from and land on an aircraft carrier, and subsequently it became the first U.S. jet fighter in operational service with both the Navy and Marine Corps. Its development during World War II was a major technological achievement that played a significant role in transforming U.S. aircraft at sea from piston power to jet propulsion.

Data Source	Materials	Date
National Air and Space Museum	All-metal (aluminium alloy) construction with	1946
Restrictions & Rights	flush-riveted skin. Monocoque fuselage with cockpit forward of the leading edge of the wing.	Physical Description
Do not reproduce without permission from the		First all-jet, aircraft carrier-based fighter plane
Smithsonian Institution, National Air and Space	Dimensions	Single-seat, twin-engine (Westinghouse
Museum	Overall: 14ft 2in., 6683lb., 30ft 9in. x 40ft 9in.	turbojets), retractable, electrically powered,
	(431.8cm, 3031.4 x 937.3 x 1242.1kg)	tricycle landing gear.
Manufacturer		
McDonnell Aircraft Corn	See more items in	Type

McDonnell FH-1 Phantom I

and the second s	National Air and Space Museum Collection	CRAFT-Aircraft	
Credit Line Transferred from the United States Department of the Navy.	Country of Origin United States of America	Inventory Number A19600130000	

Explore the collection





North American Rockwell Shrike Commander 500S, Robert A....



OBJECT

Eastern Division FM-1 (Grumman F4F-4) Wildcat



OBJECT

North American P-51C, "Excalibur III"



OBJECT

Hawker Hurricane Mk. IIC

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DARPA selects Boeing for spaceplane project

by Jeff Foust - May 24, 2017



Boeing will develop its Phantom Express reusable first stage for DARPA's XS-1 program, with a goal of performing 10 flights in 10 days and at least one flight to Mach 10. Credit: Boeing illustration

WASHINGTON — The Defense Advanced Research Projects Agency announced May 24 that it has picked Boeing to develop an experimental reusable first stage with the promise of lowering launch costs for medium-sized payloads.

Boeing will develop its "Phantom Express" vehicle for phases 2 and 3 of DARPA's Experimental Spaceplane 1 (XS-1) program, which has the goal of performing 10 flights in 10 days to demonstrate responsive and low-cost launch. Phase 2 will cover development of the vehicle and ground test though 2019, with a series of 12 to 15 test flights planned for phase 3 in 2020.

DARPA spokesman Rick Weiss said the value of the award to Boeing is \$146 million. The award is structured as a public-private partnership, with Boeing also contributing to the overall cost of the program, but Boeing declined to disclose its contribution.

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"As it's a competitive market, we do not plan to disclose our investment," Boeing Phantom Works spokeswoman Cheryl Sampson said. "We are making a significant commitment to help solve an enduring challenge to reduce the cost of space access."

The Phantom Express vehicle will take off vertically, with an upper stage carrying a satellite payload mounted on top of the fuselage. After releasing the upper stage, the suborbital vehicle would glide back to a runway landing.

"Phantom Express is designed to disrupt and transform the satellite launch process as we know it today, creating a new, on-demand space launch capability that can be achieved more affordably and with less risk," said Darryl Davis, president of Boeing Phantom Works, in a company statement.

Phantom Express is powered by an Aerojet Rocketdyne engine designated the AR-22, based on the Space Shuttle Main Engine (SSME). In a statement, Aerojet Rocketdyne said it is providing two such engines "with legacy shuttle flight experience" using parts from both the company's and NASA inventories of earlier versions of the SSME. The engines will be assembled and tested at NASA's Stennis Space Center in Mississippi.

That engine represents an apparent switch in Boeing's XS-1 concept. In phase 1 of the program, Boeing was partnered with Blue Origin, with the expectation Blue Origin would provide an engine for the spaceplane. "We selected the Aerojet Rocketdyne engine as it offers a flight proven, reusable engine to meet the DARPA mission requirements," Sampson said.

DARPA announced the XS-1 program in 2013 as an effort to develop a reusable first stage that, coupled with an expendable upper stage, could lower the cost of launching payloads weighing up to 2,200 kilograms by an order of magnitude from the roughly \$50 million the government pays for Minotaur 4 launches.

"The XS-1 would be neither a traditional airplane nor a conventional launch vehicle but rather a combination of the two, with the goal of lowering launch costs by a factor of ten and replacing today's

frustratingly long wait time with launch on demand," said Jess Sponable, DARPA XS-1 program manager, in an agency statement.

Sponable, in past discussions of the XS-1, noted the use of "spaceplane" in the program's name was meant to describe the goal of aircraft-like operations, not the design of the vehicle itself.

In 2014, DARPA announced three phase 1 awards for initial studies of the XS-1 concepts. In addition to Boeing, DARPA provided awards to Masten Space Systems, working with XCOR Aerospace; and Northrop Grumman, working with Virgin Galactic.

DARPA issued a call for proposals in April 2016 for phases 2 and 3 of the program. Boeing, Masten and Northrop Grumman all submitted proposals for phase 2, but DARPA also allowed other companies to compete. DARPA did not disclose the number of proposals it received.

A key aspect of the program retained from its earlier days is a requirement to carry out 10 flights in 10 days. In phase 2, the vehicle will fire its engine in ground tests 10 times in as many days, with the 10 flights in 10 days, at speeds up to Mach 5, in phase 3.

Later test flights of the Phantom Express will go up to Mach 10, another original goal of the program. At least one test flight will carry an upper stage that would place a demonstration payload into orbit.

DARPA and Boeing recently worked together on another program that attempted to provide less expensive and more responsive space access. DARPA selected Boeing in March 2014 to develop a launch vehicle for its Airborne Launch Assist Space Access (ALASA) program. The ALASA rocket, launched from an F-15 aircraft, was intended to place satellites weighing up to 45 kilograms into orbit for \$1 million a launch, and do so on 24 hours' notice.

ALASA suffered problems, though, linked to its use of an unconventional "mixed monopropellant" called NA7, a mixture of nitrous oxide and acetylene. Ground tests found that NA7 was less stable than expected and, in November 2015, DARPA changed the goals of ALASA to continue testing NA7, scrapping development of the launch vehicle.

DARPA, in its announcement of the XS-1 award, said that autonomous flight termination systems and related autonomous flight technologies developed as part of the ALASA program will be applied to Boeing's Phantom Express vehicle.



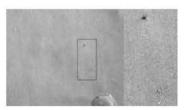
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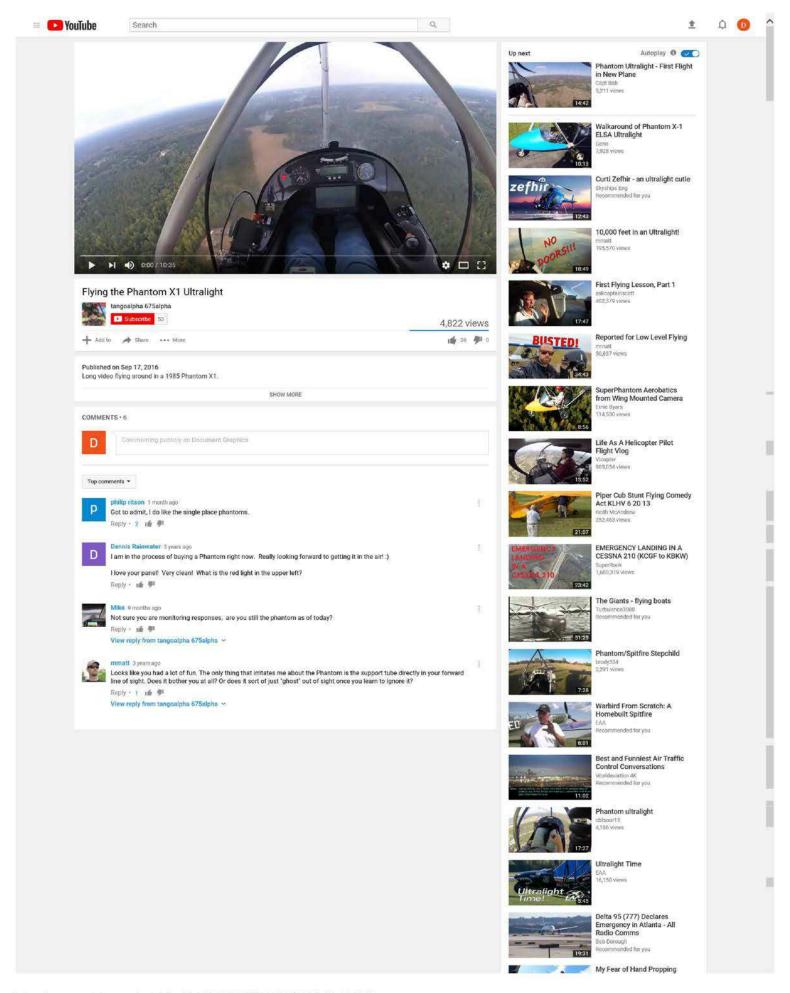


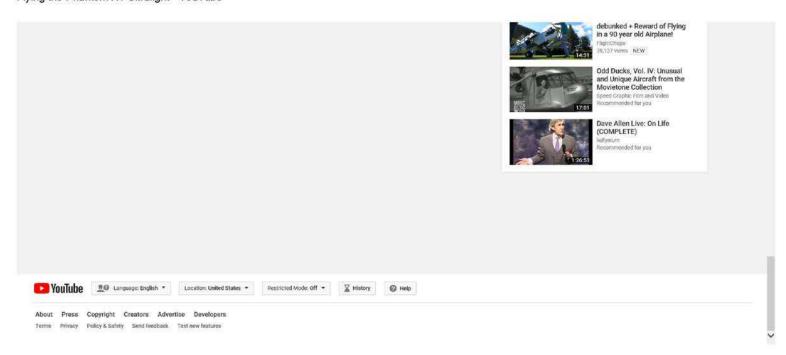
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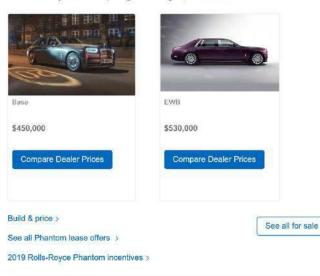






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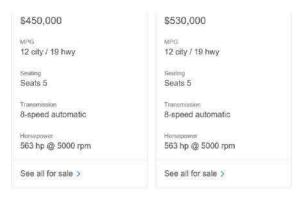
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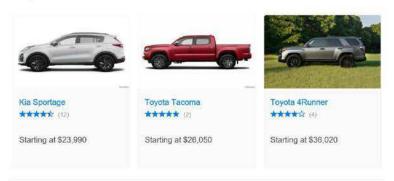
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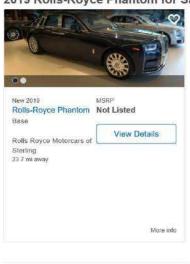
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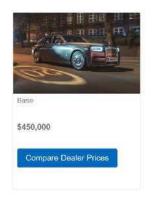
The 2019 Rolls-Royce Phantom is offered in the following submodels: Phantom Sedan. Available styles include 4dr Sedan (6.8L 12cyl Turbo 8A), and EWB 4dr Sedan (6.8L 12cyl Turbo 8A). The 2019 Rolls-Royce Phantom comes with rear wheel drive. Available transmissions include: 8-speed automatic.

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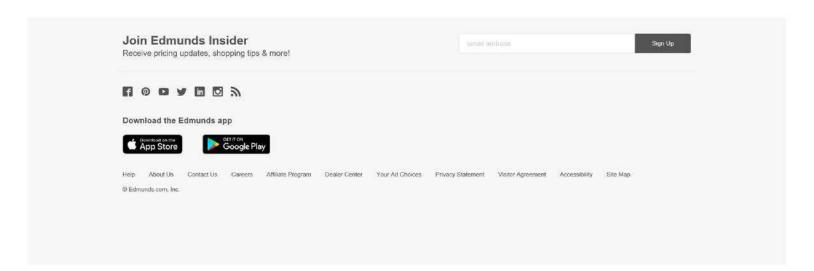
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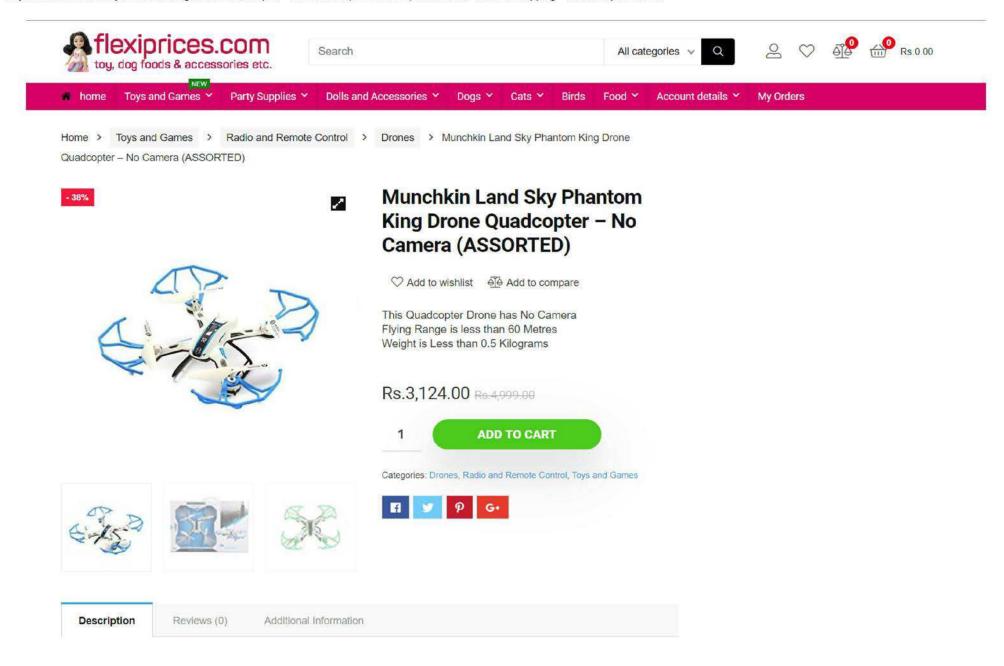
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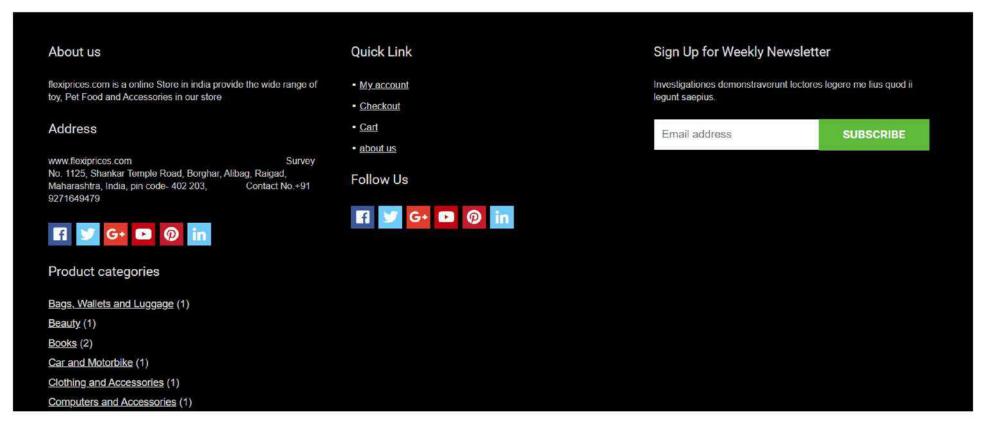
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HOME AVIATION COUNTRIES MANUFACTURERS COMPARE COLD WAR

McDonnell FH / FD Phantom

Carrierborne Single-Seat, Jet-Powered Fighter

The McDonnell FH Phantom series became the first post-World War 2 jet-powered fighter of the United States Navy.

Authored By: Staff Writer | Edited: 10/23/2017



The Allied victory in World War 2 (1939-1945) was not a foregone conclusion in 1943 as the war in Africa and Europe raged alongside an ever-growing commitment to the Pacific against the might of the Japanese Empire. Warship battles dotted the ocean landscape throughout the island-hopping campaigns and progress proved a slow bloody affair. This period gave rise to a new generation of airmen, aces and aircraft and forever solidified the placement of the aircraft carrier in naval

warfare.

With this in mind, the United States Navy (USN) looked to grow its stable of fighters beyond its conventionally-arranged, piston-powered types. As many of the major defense industry players were tied to the production of much-needed aircraft for immediate service, the U.S. Navy Bureau of Aeronautics approached McDonnell in January of 1943 to partner on a new single-seat, jet-powered monoplane fighter project. The engine of choice was an equally-new turbolet development offered

Specifications

Year: 1947

Status: Retired, Out-of-Service

Manufacturer(s): McDonnell Aircraft Corporation - USA

Production: 62

Capabilities: Fighter; Navy/Maritime;

Crew: 1

Length: 37.24 ft (11.35 m) Width: 40.75 ft (12.42 m) Height: 14.17 ft (4.32 m)

Weight (Empty): 6,680 lb (3,030 kg) Weight (MTOW): 12,037 lb (5,460 kg)

Power: 2 x Westinghouse J30-WE-20 turbojet engines developing 1.600 lb of thrust each.

from Westinghouse. The aircraft was given the designation of "FD-1".

McDonnell had revealed itself to be a rather forward-thinking company with its previous XP-67 "Moonbat" heavy fighter / interceptor development. While not adopted into service form - and only one flyable prototype completed - the Moonbat made McDonnell stand out as an aircraft builder. Additionally it did not hold the production commitment to the ongoing war as its competitors did.

In the short span of two years, McDonnell engineers had readied the "XFD-1" prototype which first took to the air on January 26th, 1945. The aircraft proved a sleek design featuring a well-streamlined fuselage, straight wing appendages (with clipped tips) and a single-finned tail unit. A wholly-retractable tricycle undercarriage was fitted and the airframe was powered by two of the aforementioned jets buried in the wingroots, exhausting through rounded ports at the wingroot aft. Because the engines could be mounted at any point behind the pilot, vision out-of-the-cockpit was

Speed: 478 mph (770 kph; 416 kts)

Ceiling: 41,093 feet (12,525 m; 7.78 miles)

Range: 696 miles (1,120 km; 605 nm)

Rate-of-Climb: 4,230 ft/min (1,289 m/min)

Operators: United States



vastly improved for navy aviators (no forward-mounted engine or spinning propellers to contend with and therefore a shorter distance between the cockpit and nose of the aircraft). Standard, fixed armament centered on 4 x 0.50 caliber heavy machine guns, all fitted to the nose. There was also support for 8 x 5" (127mm) High Velocity Aircraft Rockets (HVARs) underwing intended to help bring down large, slow-moving targets like bombers.



World War 2 ended with the Japanese surrender of August 1945 but the Navy still pursued its new fighter - nicknamed the "Phantom" because of its promised performance of 500 miles per hour - the aircraft would come and go as "an apparition" to enemy forces facing it. On July 21st, 1946, the XFD-1 prototype became the first all-jet USN aircraft to take-off and land on an American carrier (USS Franklin D. Roosevelt).

With Douglas' post-war reentry into fighter development, the "D" initially allocated to the McDonnell FD-1 project was assigned back to Douglas which left McDonnell use of "H" - as such the FD-1 became the "FH-1". Once its testing and evaluation phase had successfully ended, the FH-1 "Phantom" was introduced for service in August of 1947. For the USN, the jet age had begun which would produce a whole slew of evermore powerful types still to come - and McDonnell benefitted from this early partnership with the service branch.

VF-17A fighter squadron was the first to employ FH-1 Phantoms when they arrived in number for August 1947. Totals were strengthened considerably over the next year. Also in 1947, the United States Marine Corps aviation section acquired the FH-1 which marked the Phantom as the first joint USN/USMC jet-powered combat aircraft.

The FH-1 in service became more of a technological stepping stone for the USN than a long-term fighter solution. The thirsty jets it relied on limited operational range and the machine-gun-only armament was lacking punch when compared to the all-cannon arrangements featured on competing fighter designs seen elsewhere. While the Phantom carried rockets for its attack role (rarely uses in actual service) it lacked a bomb-delivery capability ruling out any usefulness as a fighter-bomber. Straightline performance was, however, one of the best of the period and gave the carrier-based fighter an advantage over piston-powered enemies it could potentially face.

The operational life of the FD-1 series was extremely short nonetheless for the line was retired by the USN and USMC as soon as 1949 and reserve units followed in 1954. McDonnell then developed the F2H "Banshee" from its FH-1 experience and 895 of this design were completed with service introduction coming during August of 1949. The FH-1 was not exported to U.S. partners and, beyond the 60 production FD-1 models and the pair of XFD-1 prototypes, no other variants existed.

The "Phantom" name was resurrected by McDonnell for their classic F-4 "Phantom II" design.

Armament

STANDARD, FIXED:

4 x 12.7mm machine guns mounted in the nose

OPTIONAL:

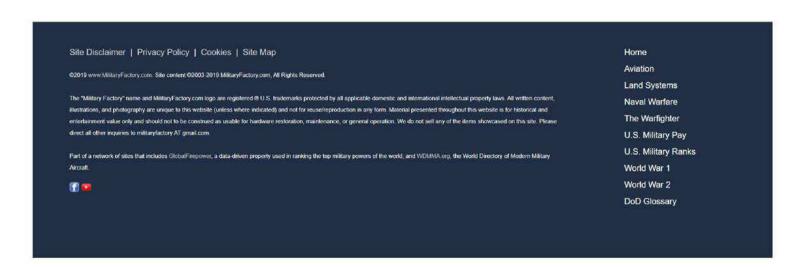
8 x High Velocity Aircraft Rockets (HVARs) underwing

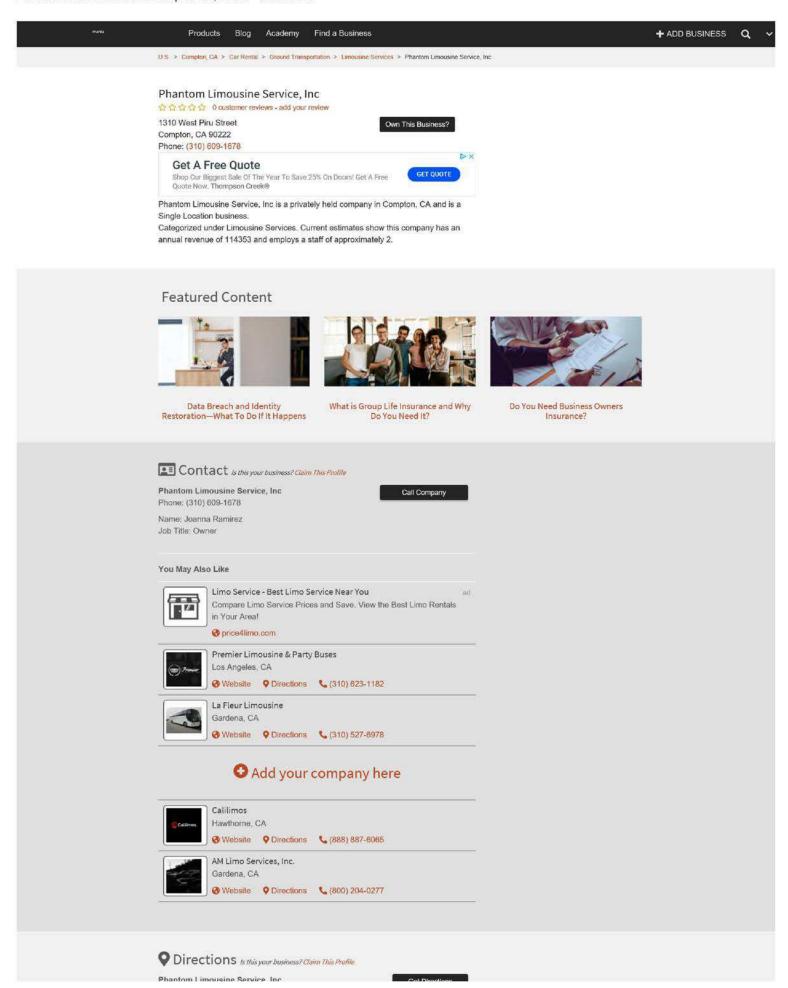


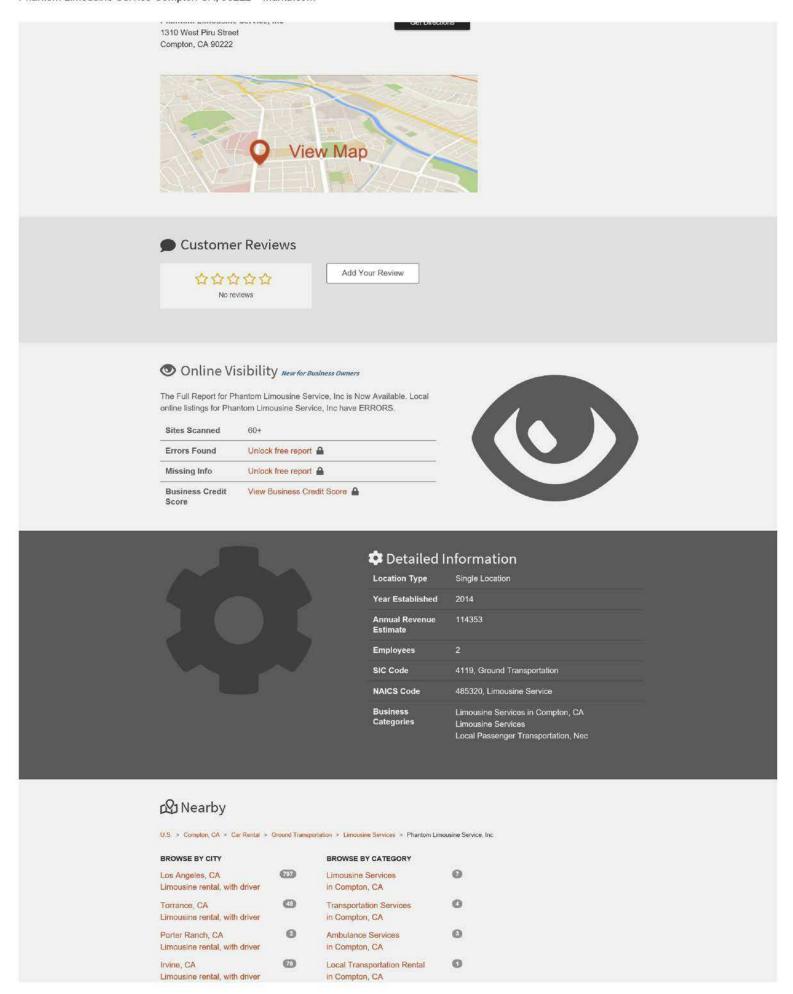
Variants / Models

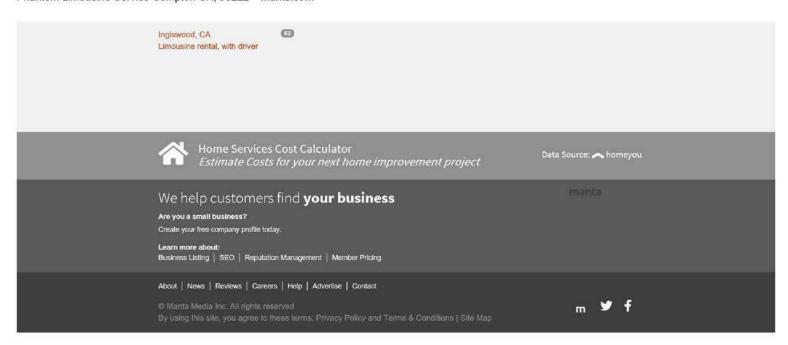
- FD "Phantom" Original Series Designation
- FH "Phantom" Revised Series Designation
- XFD-1 Prototype Model Designation; two examples completed.
- FH-1 Production Series Designation; 60 examples delivered.

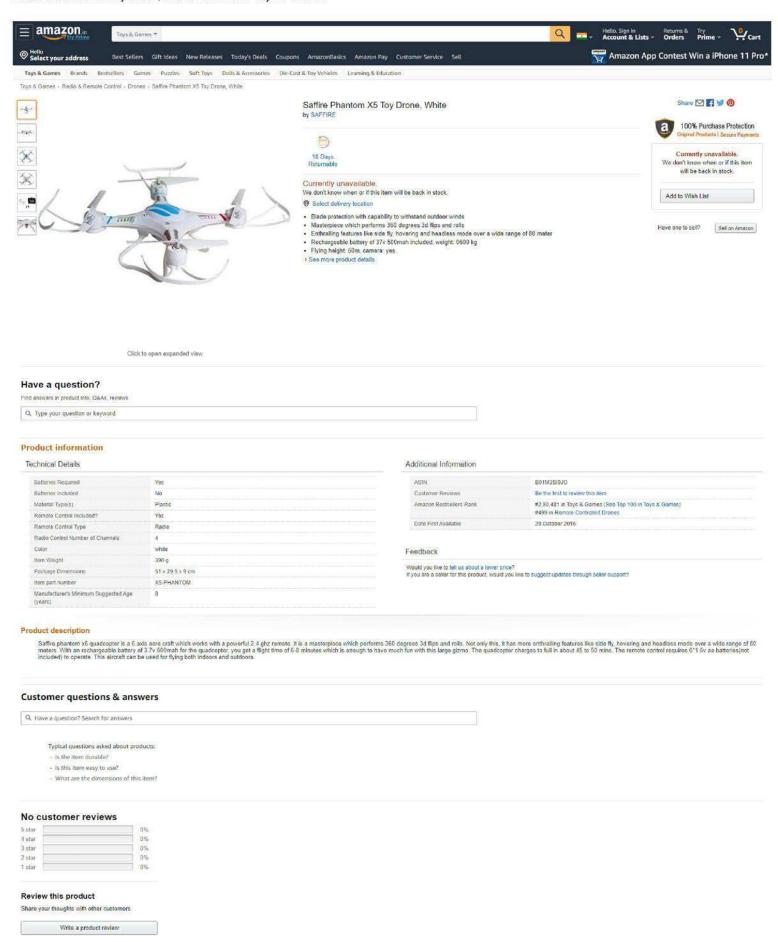




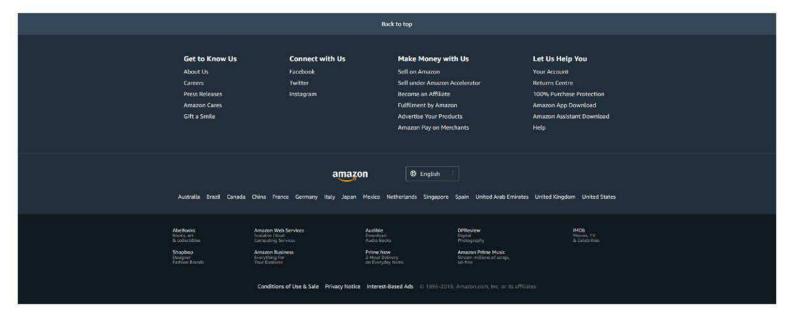


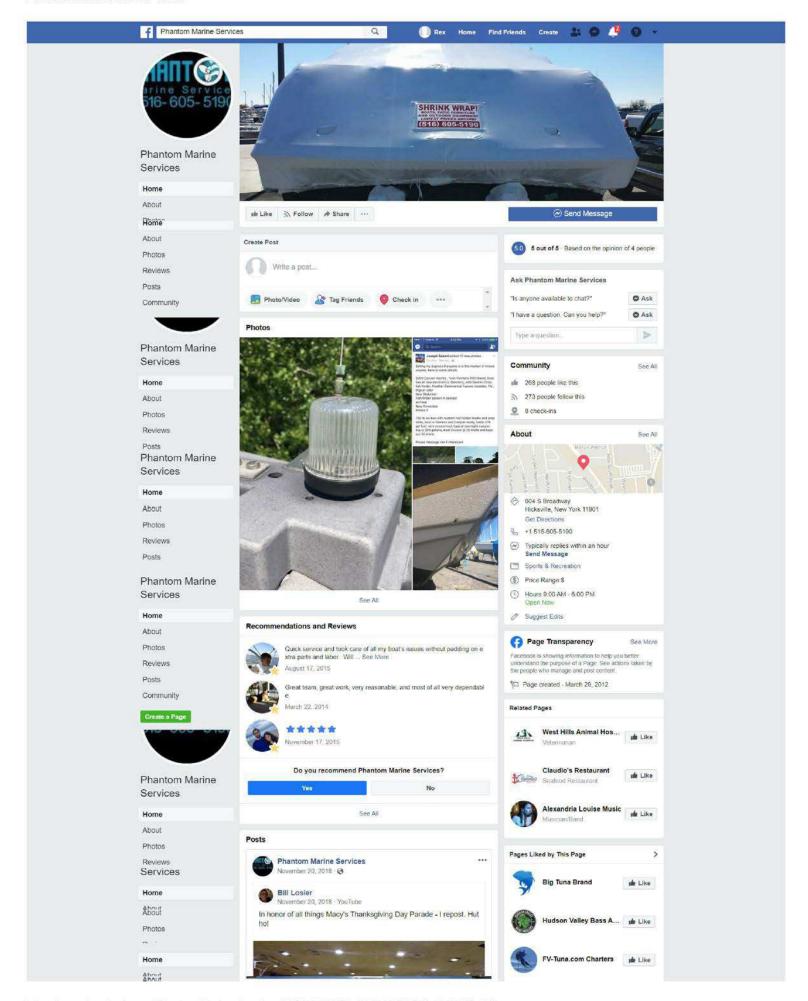


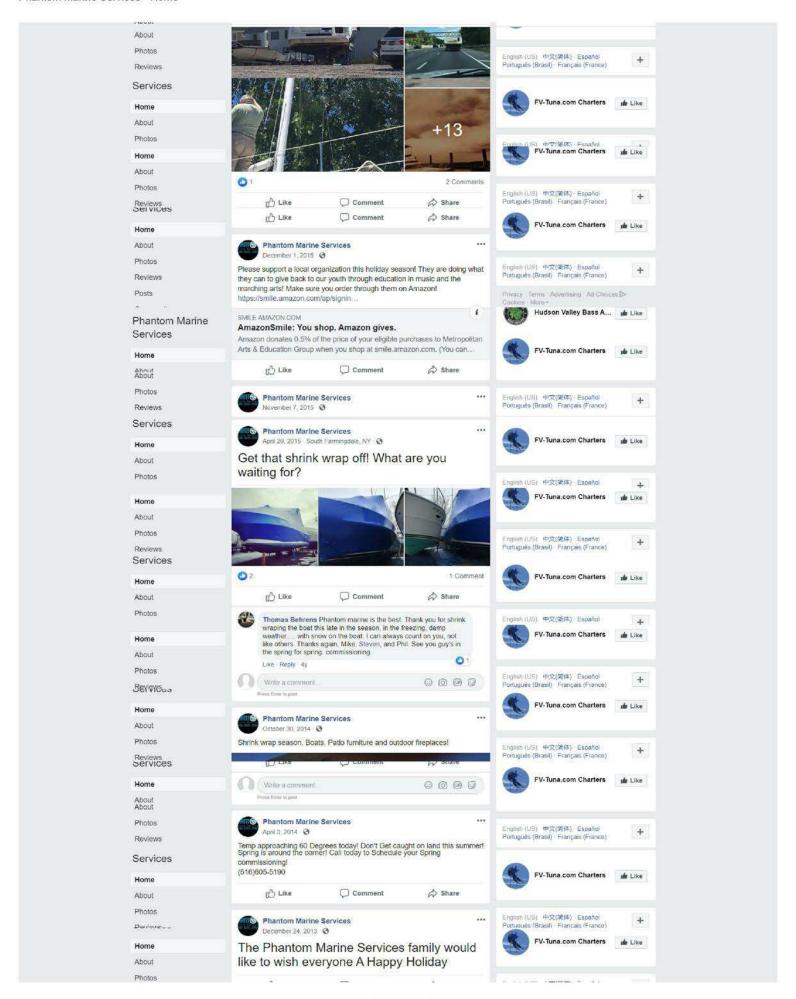








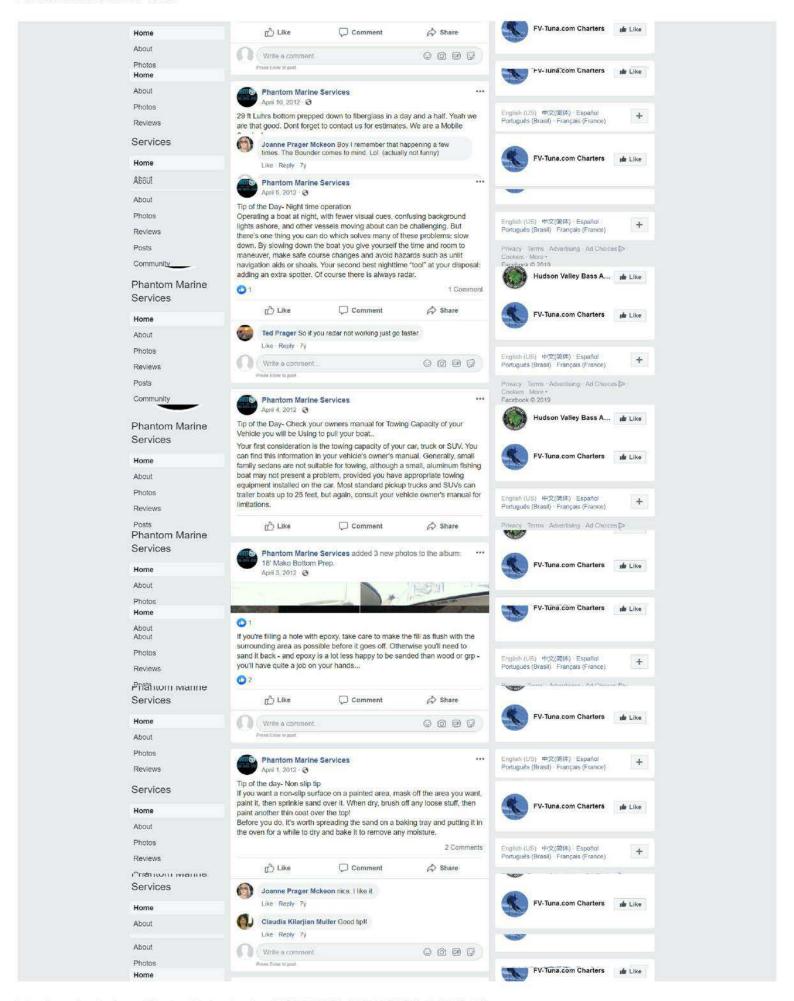


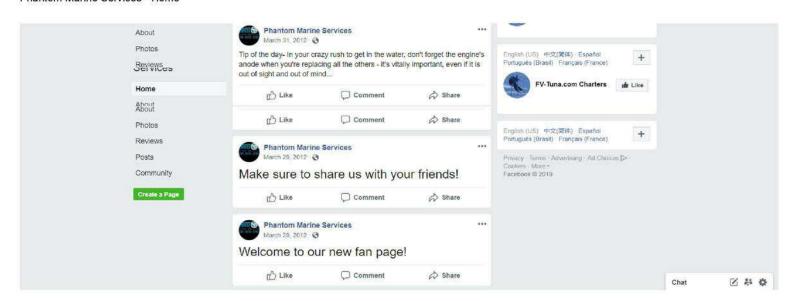














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Navy's New 80-MPH Mini Combat Vehicle Can Drop From the Sky



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MASTER CHIEF, YOUR new combat vehicle is ready.

The U.S. Navy has certified the Phantom Badger, a 240-horsepower combat support vehicle that's about the size of a Mini and tough enough to traverse damn near anything. It's designed to fit inside several different aircraft, including the V-22 Osprey, and airdropped to provide ground troops with superior mobility.

"This certification validates Phantom Badger's versatile design while offering the warfighter increased battlefield access and deployment options," John Chicoli, who leads Boeing's internally transportable vehicle program, said in a statement.

The vehicle, which looks a lot like a squished HumVee, was developed by Boeing Phantom Works with an assist from Motorsport



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Innovations. Those guys are known more for their work on the racetrack than the battlefield, and helped Boeing develop an adjustable suspension system tough enough for the rigors of battle. Together they engineered a four-wheel steering system that gives the Badger a 24-foot turning radius.

"The agility, the speed of this vehicle is unmatched right now," Chicoli said.

The Badger will hit 80 mph running flat out, and unleash hell doing it. Weapon loads include a .50-caliber machine gun or a 40mm automatic grenade launcher bolted to the roll cage. The rear-facing seats can be equipped with general-purpose machine guns or ditched for hardware supporting resupply or medevac duties.

The vehicle is just 60-inches wide, and it was designed to fit in the cargo hold of a V-22 Osprey—a tilt-rotor aircraft so narrow the Pentagon doesn't have a ground support vehicle that fits inside it. The CH-47 Chinook helicopter and the C-130 cargo plane can carry two Badgers apiece, while the C-17 transport plane can carry 10.

The Badger had completed 5,000 miles of testing over a wide variety of terrain and has been successfully dropped from a C-17. Boeing says it's tough as nails and ready for duty.

"This is a vehicle that will last the customer a long time, and we truly think this weight class of vehicle closes a big capability gap," said Chicoli.





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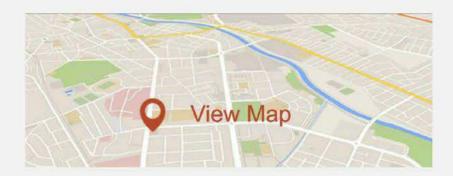


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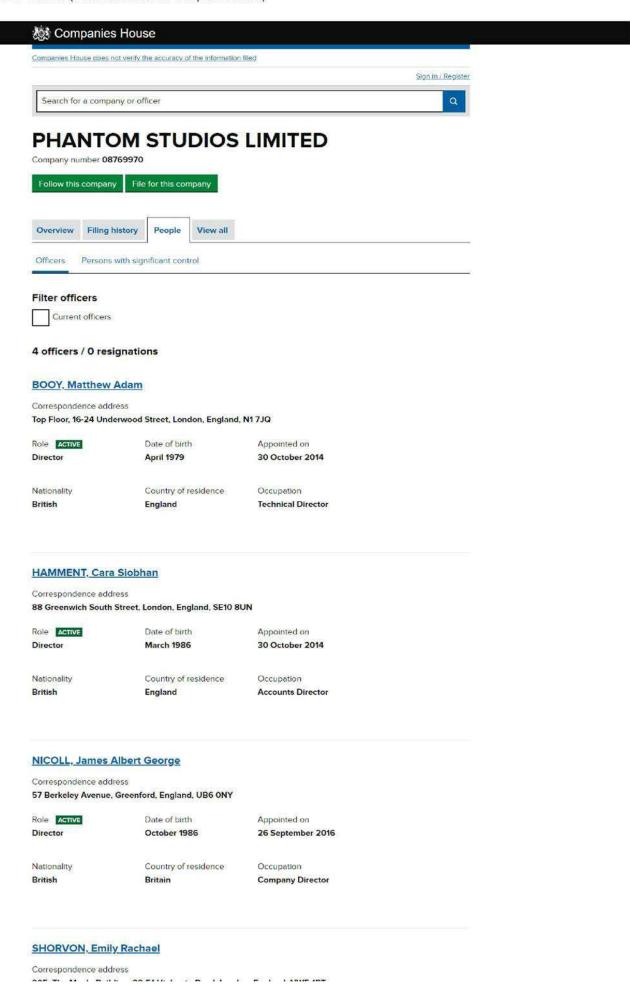
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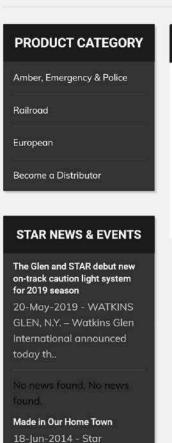






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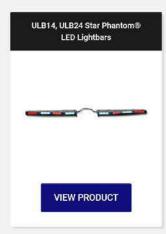
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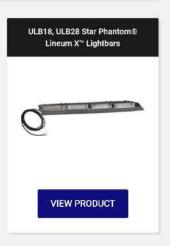


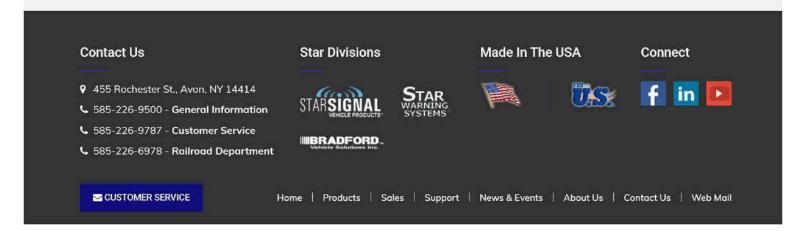
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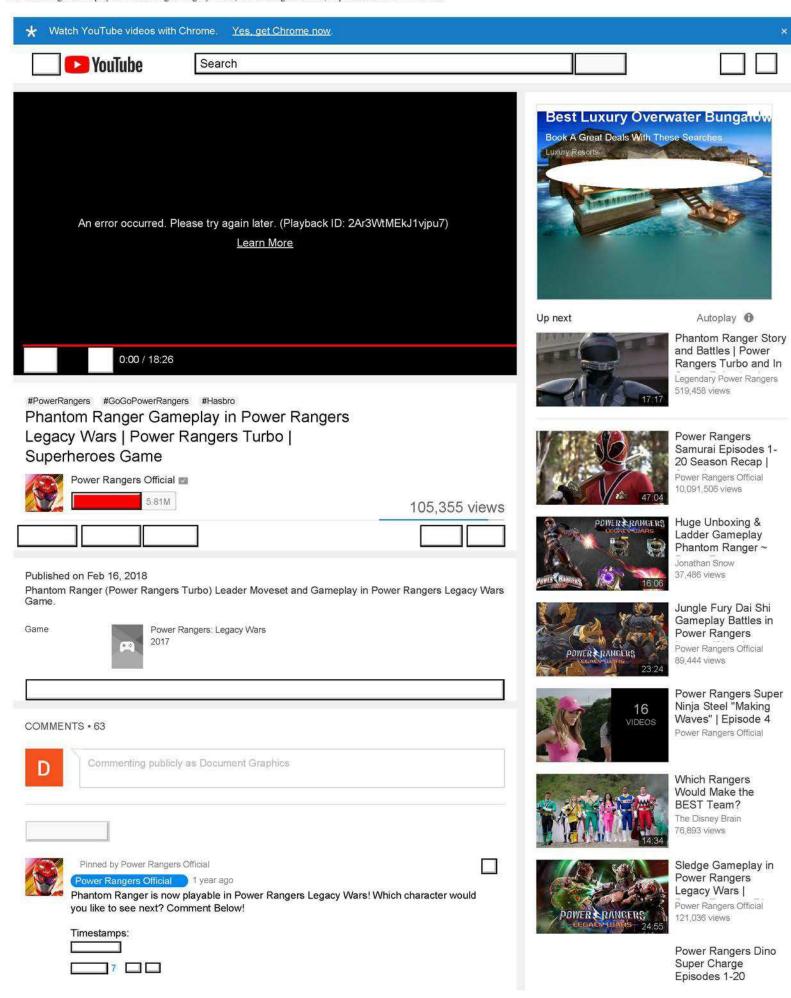








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	Ah, muy second favorite Legendary Ranger, the first one is Golden Zeo Jason, and mayb Koragg and Magna	e L		Power Rangers: Legacy Wars Pink Turbo Ranger Tips Koragg Wolzard *WolfThur 11,382 views
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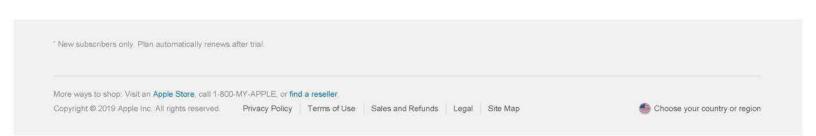
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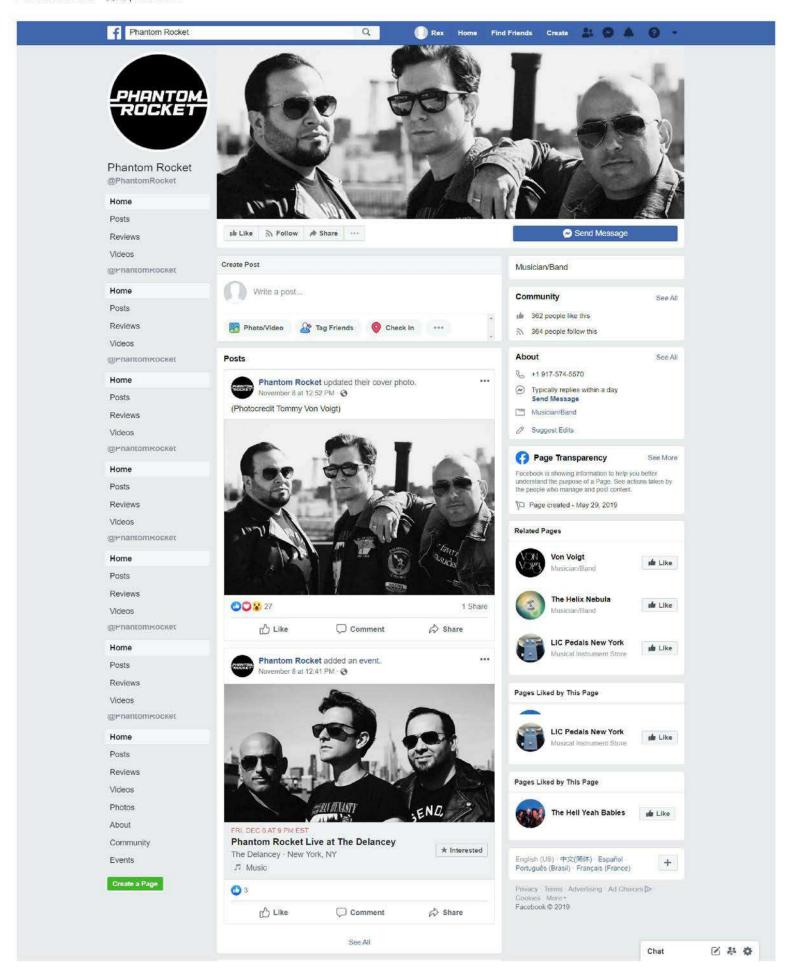
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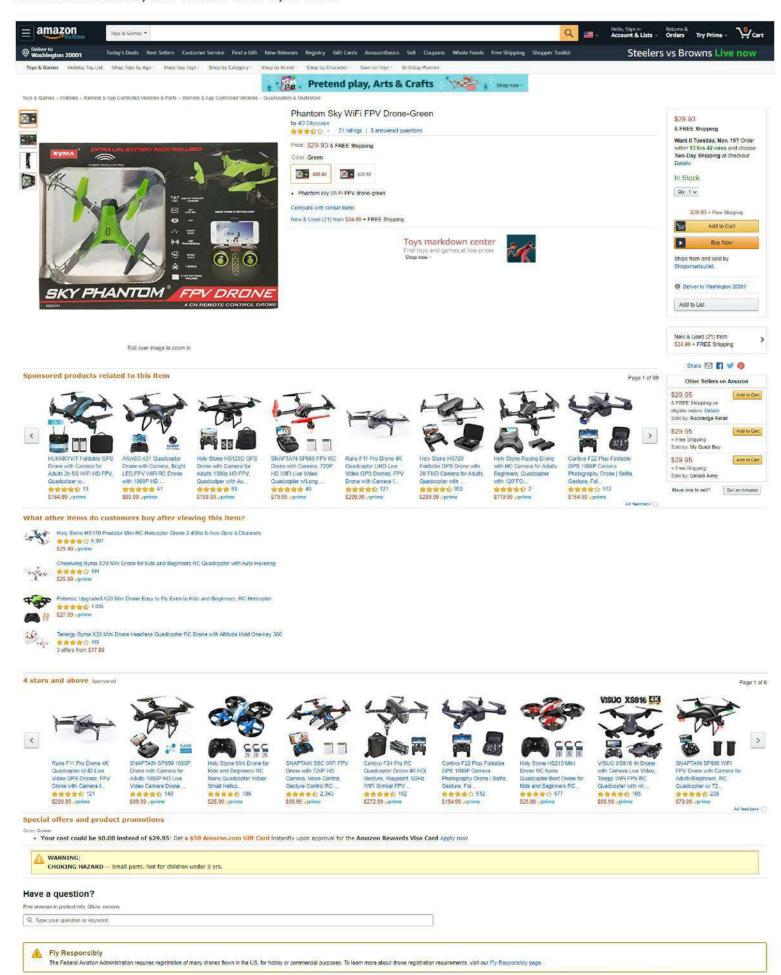
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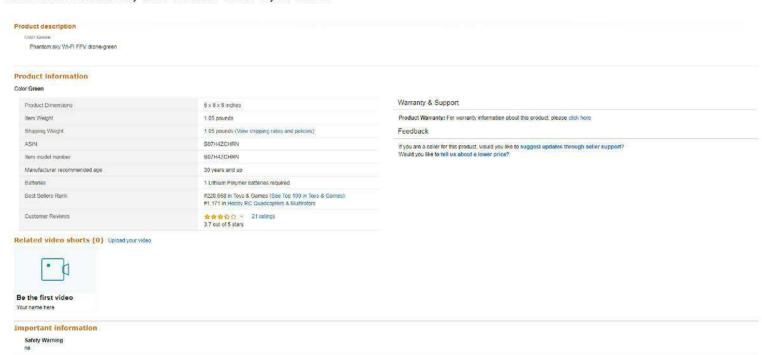




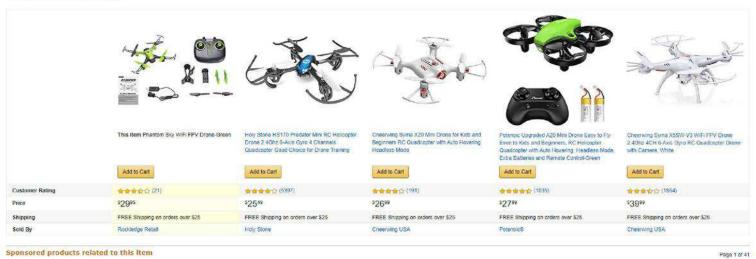






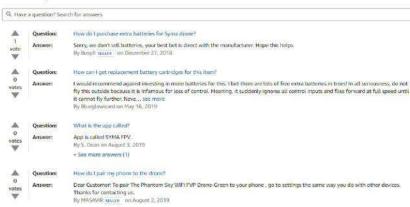


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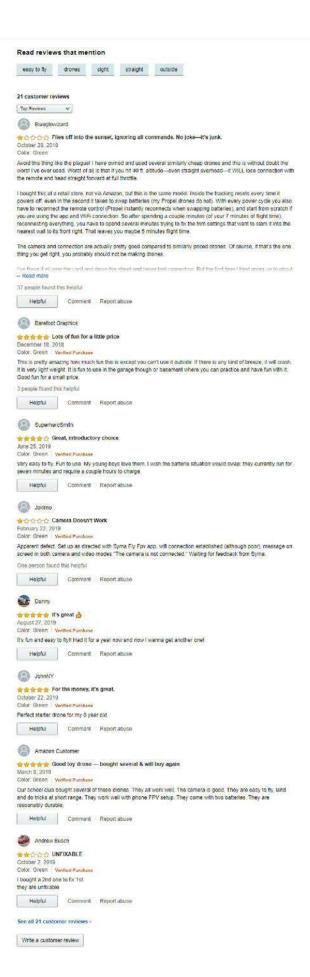


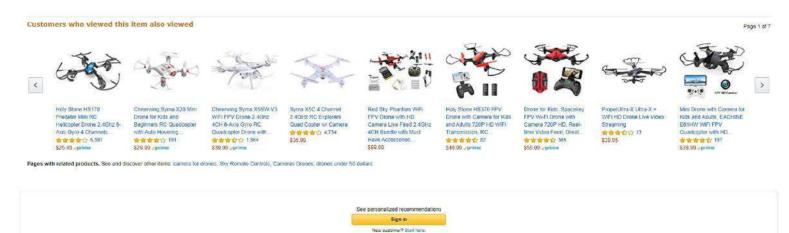
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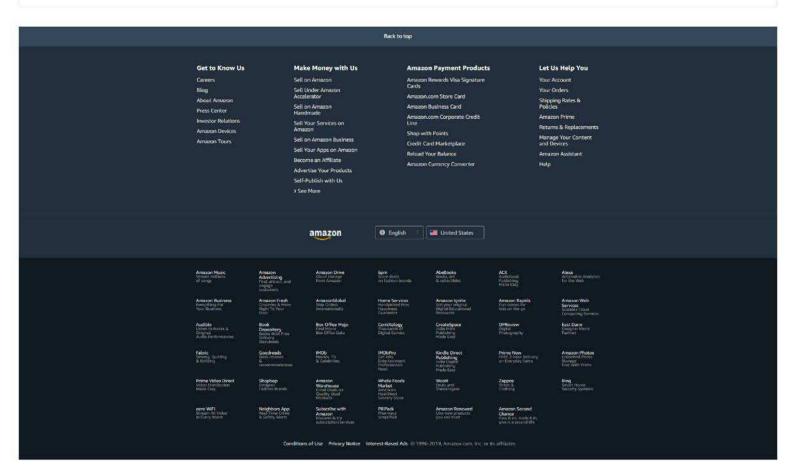
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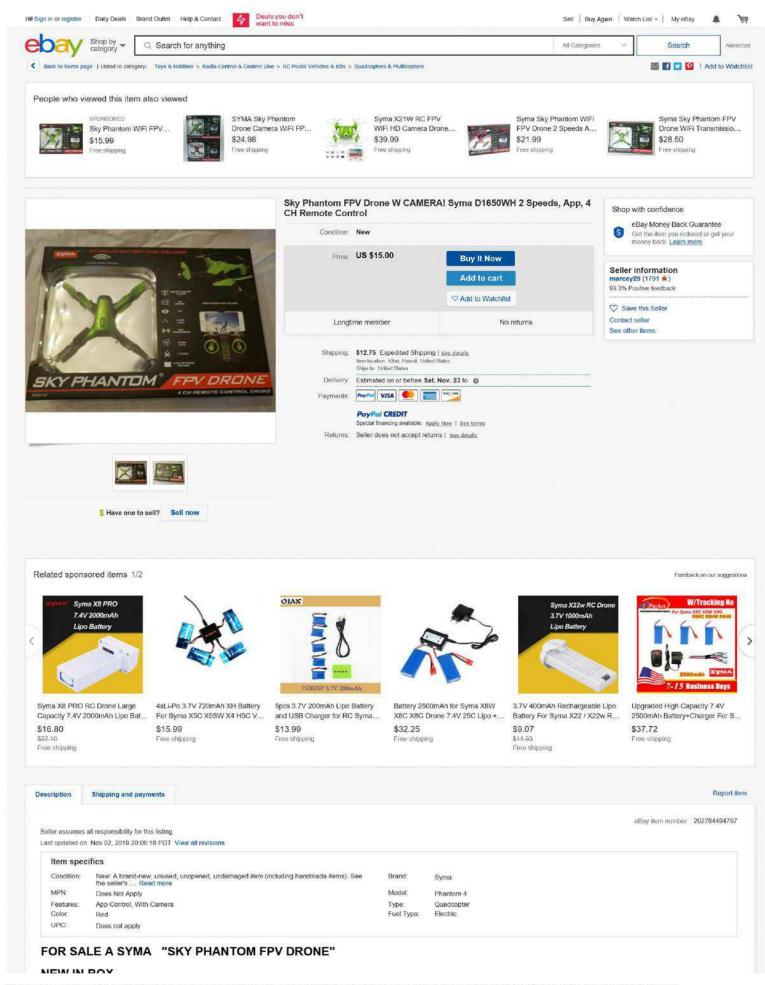












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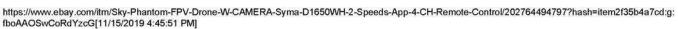
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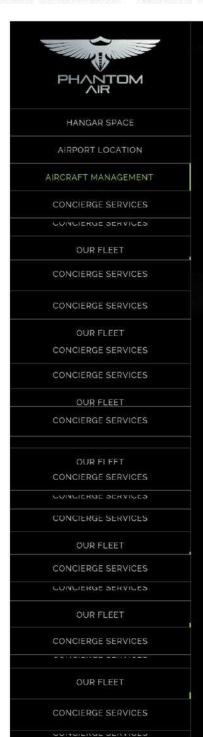
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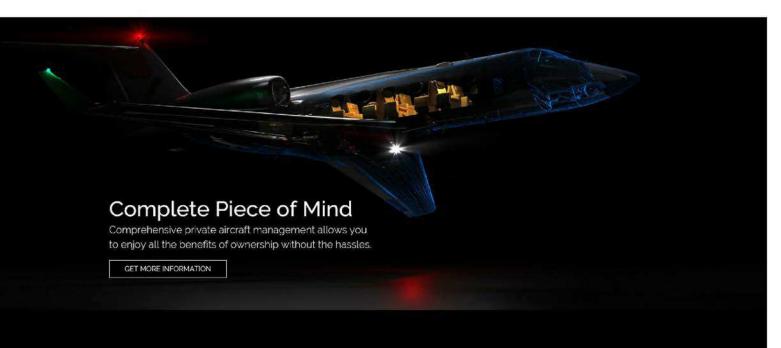
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Phantom Premium 6D0Fs Specifications





		Premium 1.5 / 6DOF	Premium 1.5 High Force / 6DOF	Premium 3.0 / 6DOF	
Workspace	Translational	15 W x 10.5 H x 7.5 D in 381 W x 267 H x 191 D mm	15 W x 10.5 H x 7.5 D in 381 W x 267 H x 191 D mm	33 W x 23 H x 16 D in 838 W x 584 H x 406 D mm	
	Rotational Yaw Pitch Roll	297 degrees / 5.18 radians 260 degrees / 4.54 radians 335 degrees / 5.85 radians	297 degrees / 5.18 radians 260 degrees / 4.54 radians 335 degrees / 5.85 radians	297 degrees / 5.18 radians 260 degrees / 4.54 radians 335 degrees / 5.85 radians	
Range of motion		Lower arm movement pivoting at elbow	Lower arm movement pivoting at elbow	Full arm movement pivoting at shoulder	
Nominal position resolution	Translational	860 dpi / 0.03mm	3784 dpi / 0.007 mm	> 1000 dpi / ~0.02 mm	
	Rotational Yaw & Pitch Roll	0.0023 degrees/0.0004 radians 0.0080 degrees/0.00014 radians	0.0023 degrees/0.00004 radians 0.0080 degrees/0.00014 radians	0.0023 degrees/0.00004 radians 0.0080 degrees/0.00014 radians	
Maximum exertable force and torque at nominal position (orthogonal arms)	Translational	1.9 lbf / 8.5 N	8.4 lbf / 37.5 N	4.9 lbf / 22N	
	Rotational Yaw & Pitch Roll	73 oz-in / 515 mNm 24 oz-in / 170 mNm	73 oz-in / 515 mNm 24 oz-in / 170 mNm	73 oz-in / 515 mNm 24 oz-in / 170 mNm	
Stiffness		20 lbf in 1 / 3.5 N mm ⁻¹	20 lbf in 1 / 3.5 N mm 1	5.7 lbf in 1 / 1 N mm ⁻¹	
orce feedback 6 Degrees of Freedor	m)	x, y, z, Tx, Ty, Tz	x, y, z, Tx, Ty, Tz	x, y, z, Tx, Ty, Tz	
Position sensing/inpu 6 Degrees of Freedor		x, y, z, roll, pitch, yaw	x, y, z, roll, pitch, yaw	x, y, z, roll, pitch, yaw	
Interface		Parallel port	Parallel port	Parallel port	
Optional end effectors		Thumb pad (pinch), scissors	Thumb pad (pinch), scissors	Thumb pad (pinch), scissors	

Contact Information

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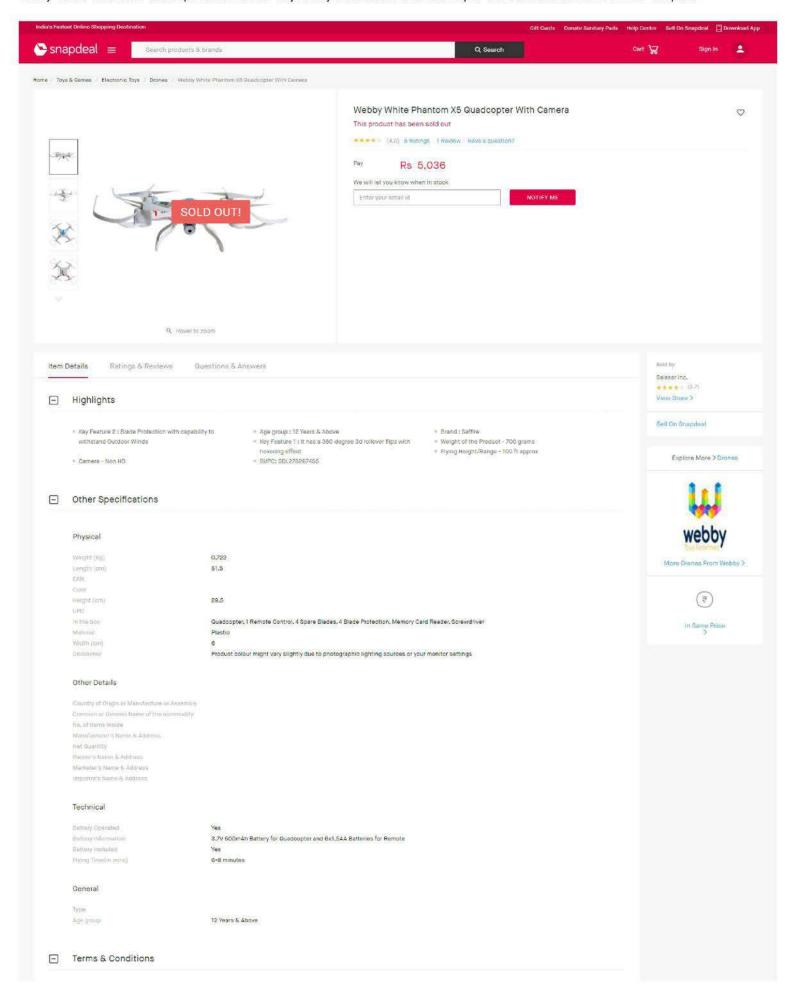
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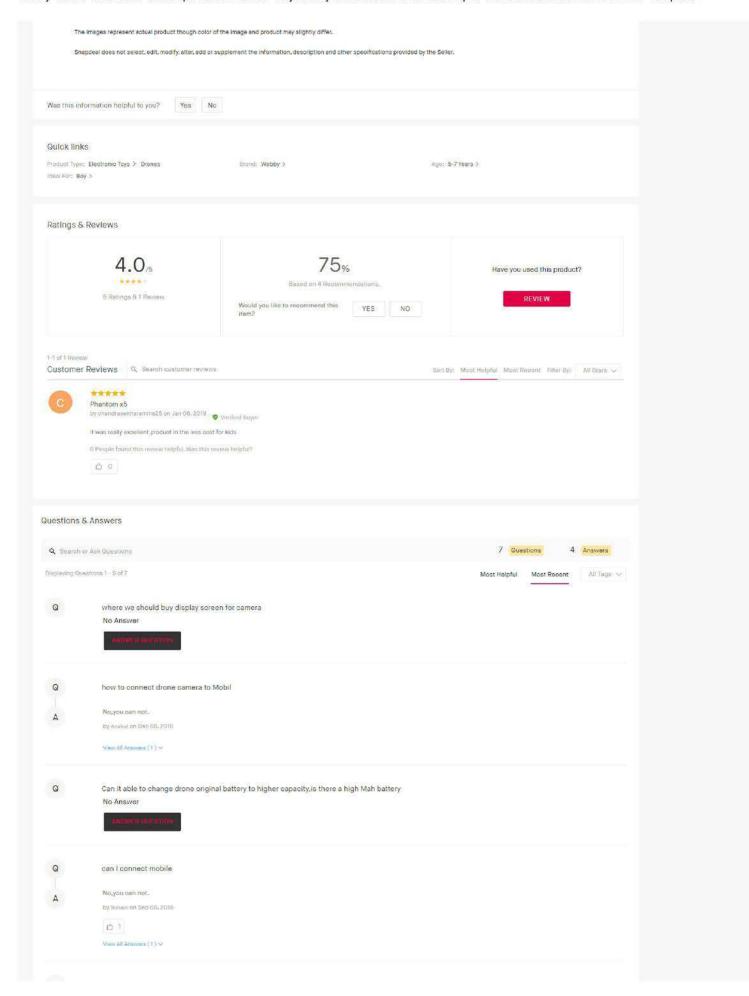
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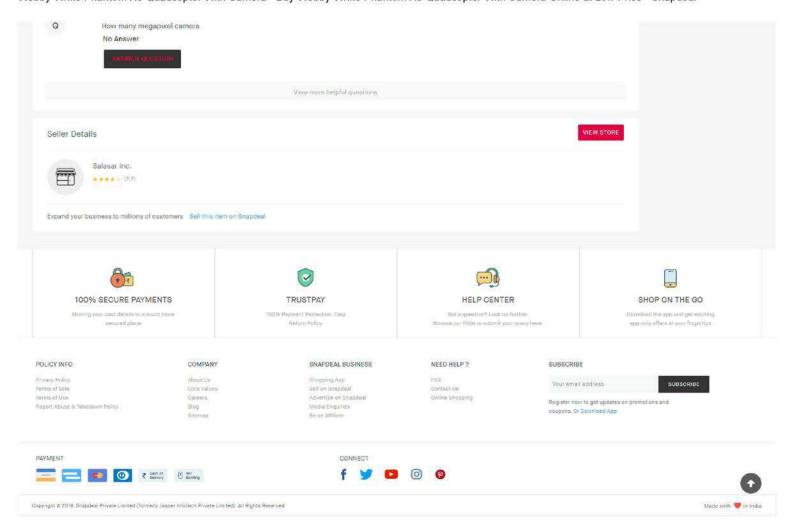
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Phantom Badger Combat Support Vehicle



PROJECT TYPE
Combat support vehicle

LENGTH 457cm (180in) WIDTH 152.5cm (60in) GROSS WEIGHT 7,850lb (3,402kg)

Expand •





• • • • • • • •

Phantom Badger, a high performance combat support ground vehicle designed and developed by the Special Pursuit Cell (SPC) of Boeing Phantom Works, was unveiled at St. Louis facility in Missouri in May 2013.

The vehicle offers better deployment options for the troops and executes a range of missions, surpassing the capabilities of the existing support vehicles.

It was certified by the US Navy to be transported inside a V-22 Osprey aircraft after conducting a series of torture tests including form-fit checks and pressure trials, as well as structural evaluations in March 2014.

Development and production

Phantom Badger was developed on request from the US special operations forces (SOF) community, for deployment in the US Marine Corps and US Air Force Special Operations. It is designed to fit in the V-22 Osprey and other transport aircraft so that it can be transported for carrying out special operations missions.

Boeing partnered with MSI Defense Solutions, a company based in North Carolina, to produce the Phantom Badger. The vehicle has been in production since October 2013 at Boeing's Mooresville facility in North Carolina.

MSI provided the <u>shocks</u> and suspension system of the vehicle to tackle the challenging terrain and obstacles in the battle fields. It is also responsible for design and assembly of the interchangeable mission modules.

Phantom Badger design and features

Phantom Badger features an open-top hull incorporating a tubular frame roll-bar. It can carry five soldiers including two at the front, one in the centre and two at the rear. The vehicle also integrates accessories such as hydraulic pumps, bolts and winches.

The rear sections of the vehicle can be customised to make it suitable for carrying out a wide range of critical missions including reconnaissance, <u>explosive ordnance disposal</u> (EOD), weapons carrier, and combat search and rescue. It can also be used to transport critically injured warfighters.

Gross weight of the Phantom Badger is 7,850lb (3,402kg), whilst it measures in at 457cm (180in) in length and 152.5cm (60in) in width. It also has a payload carrying capacity of 3,356lb (1,587kg) and offers proven all-terrain performance, increased mission flexibility and enhanced survivability.

The vehicle can fit into V-22 Osprey aircraft's main cabin with the seats retracted. A C-17 transport aircraft can house ten Phantom Badgers vehicles, while two vehicles can fit in a C-130 aircraft or a CH-47 Chinook helicopter. The vehicle underwent more than 5,000 miles (8,046km) of rugged terrain durability testing and successful airdrop tests from a C-17.

Armament

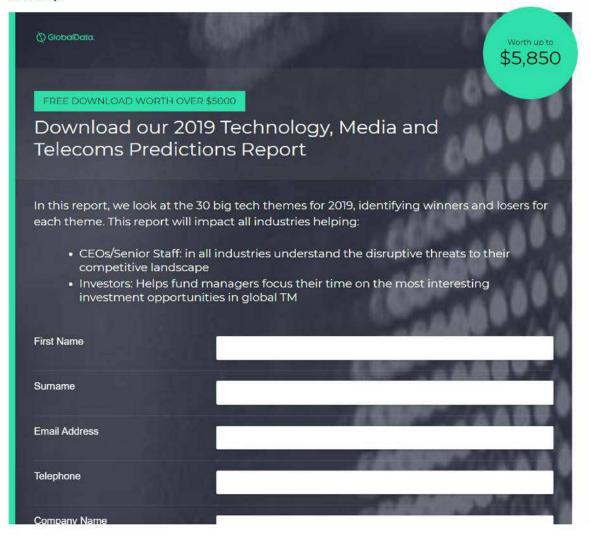
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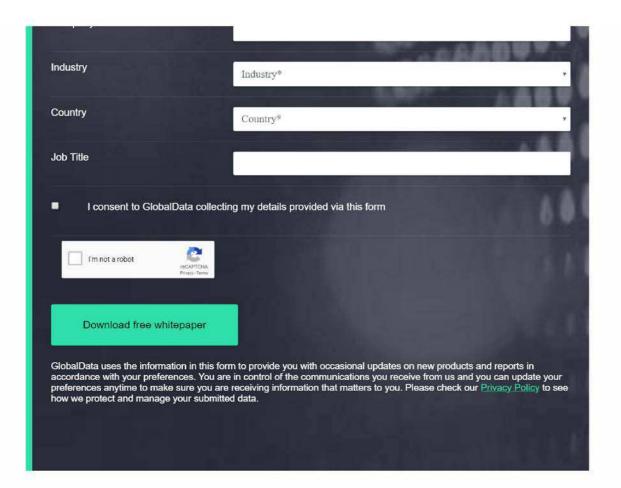
The weapon mounts fitted on Phantom Badger can hold a 12.7mm heavy machine gun or a 40mm automatic grenade launcher. The vehicle can also be armed with 7.62mm general purpose machine guns or other weapons on the swivel station on each side of the rear hull.

Engine and mobility

The vehicle is fitted with A V6 3L turbocharged multi-fuel engine is fitted on to the vehicle which burns JP-8 fuel or diesel. The engine produces a maximum power output of 240hp and generates a torque of 420lb-ft and the vehicle has a fuel consumption rating of 21 miles (34km) per gallon.

Cruising range of the Phantom Badger is about 450 miles (724km) and the maximum speed on paved surfaces is 128km/h (80mph). The vehicle is fitted with height-adjustable suspension and 35in (90cm) tires and can cross waters up to 3ft deep.





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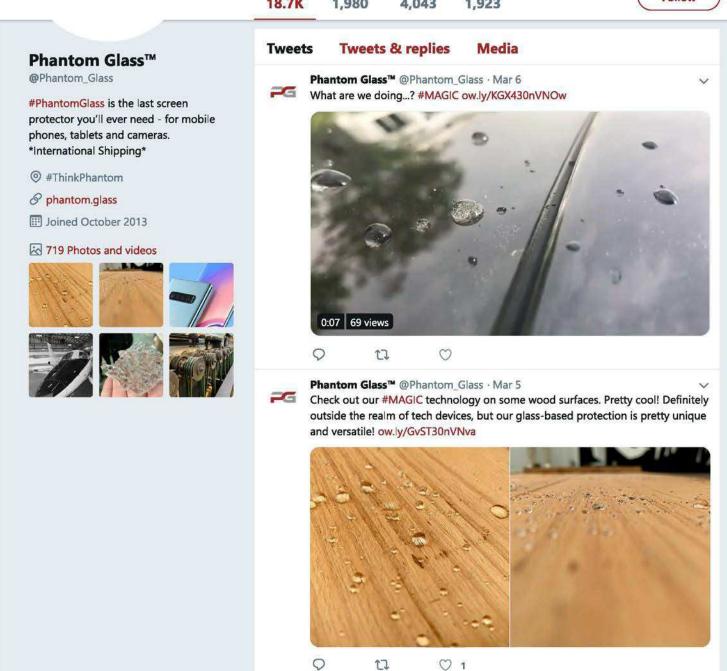
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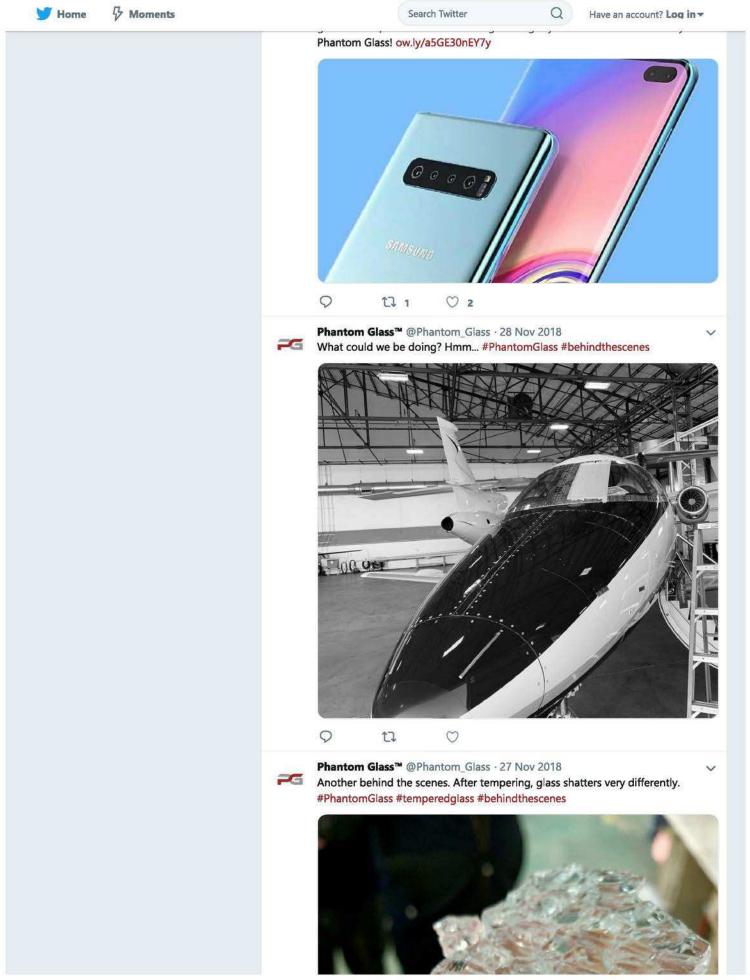
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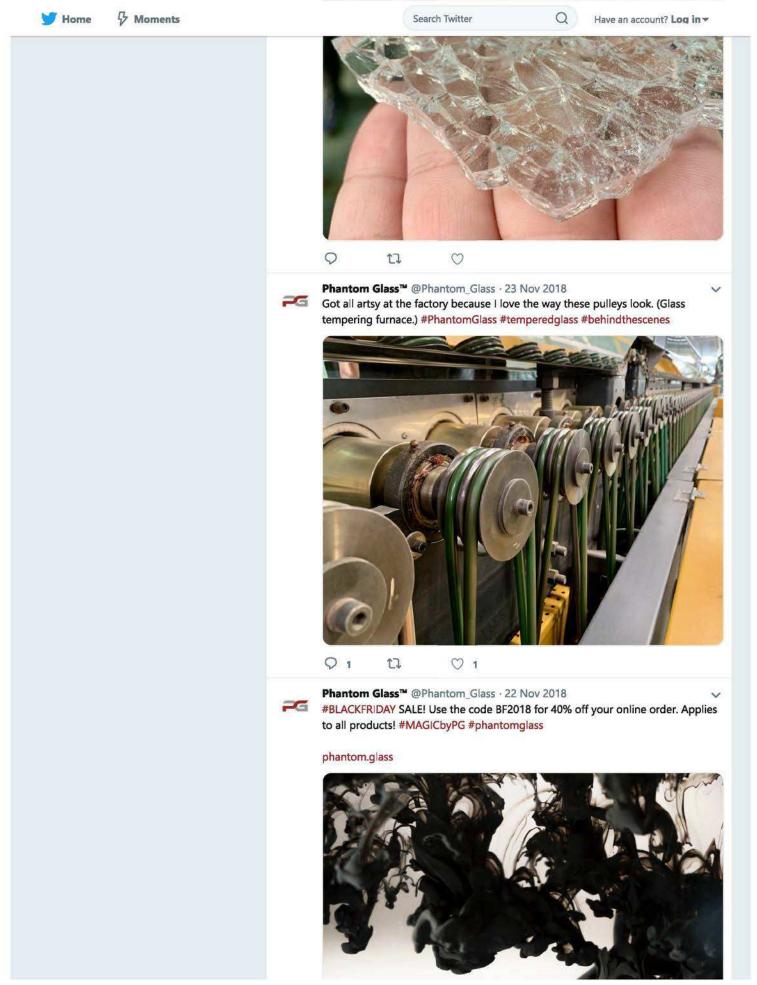
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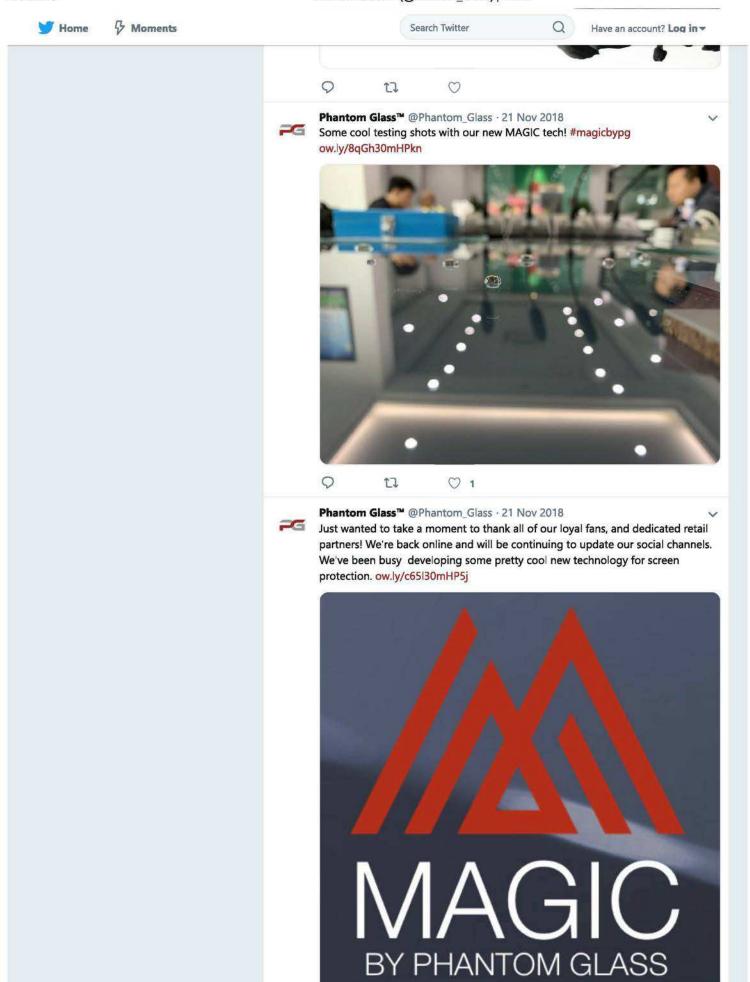


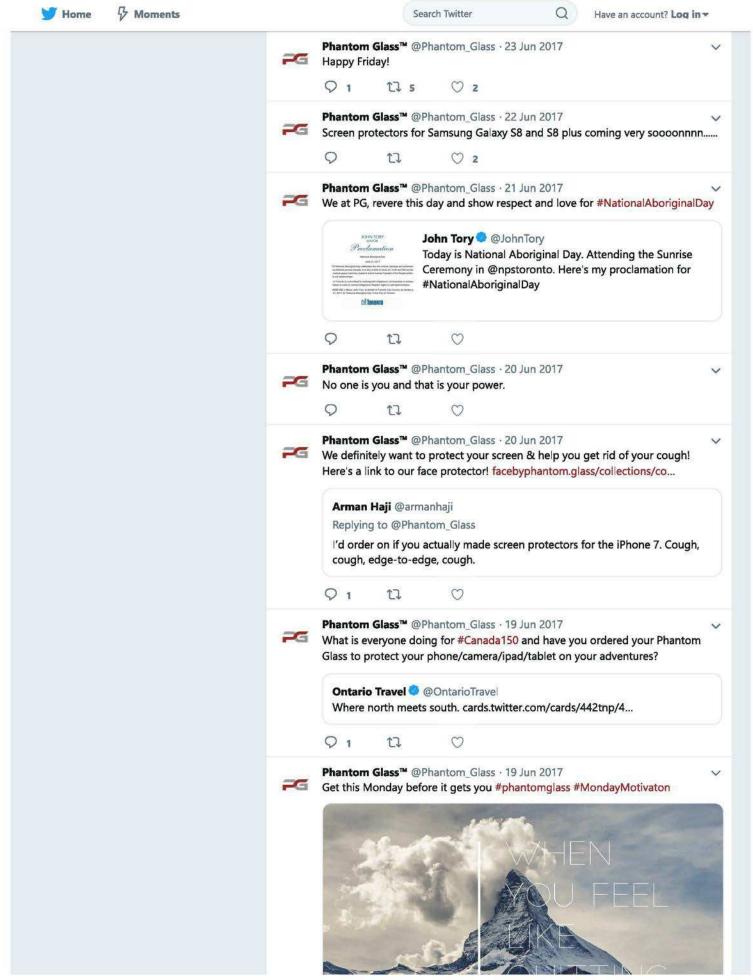


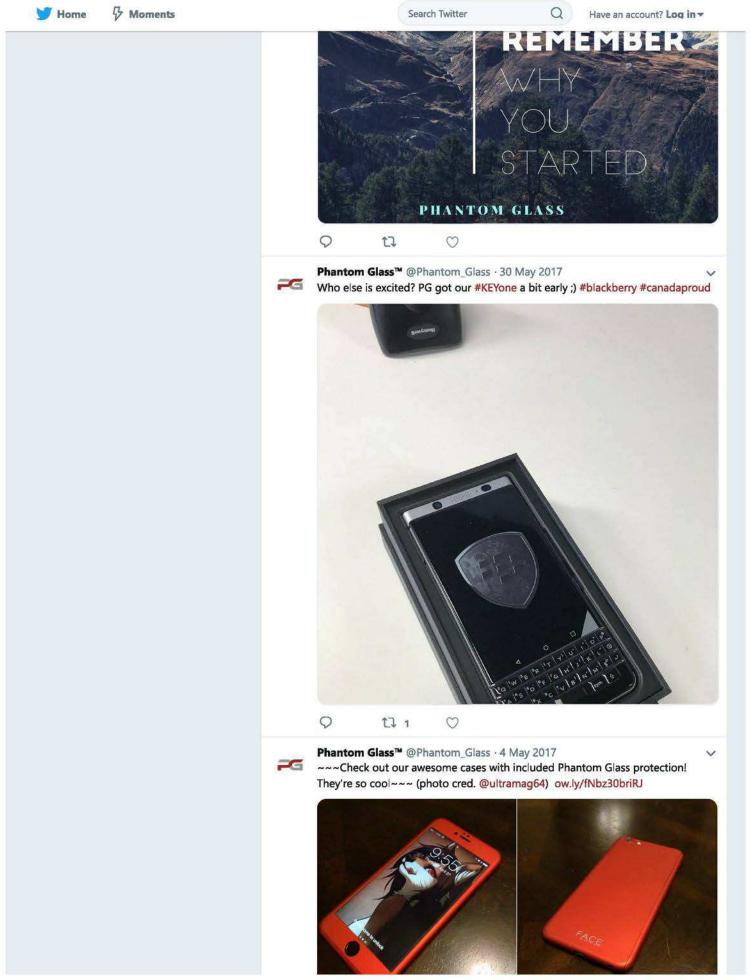
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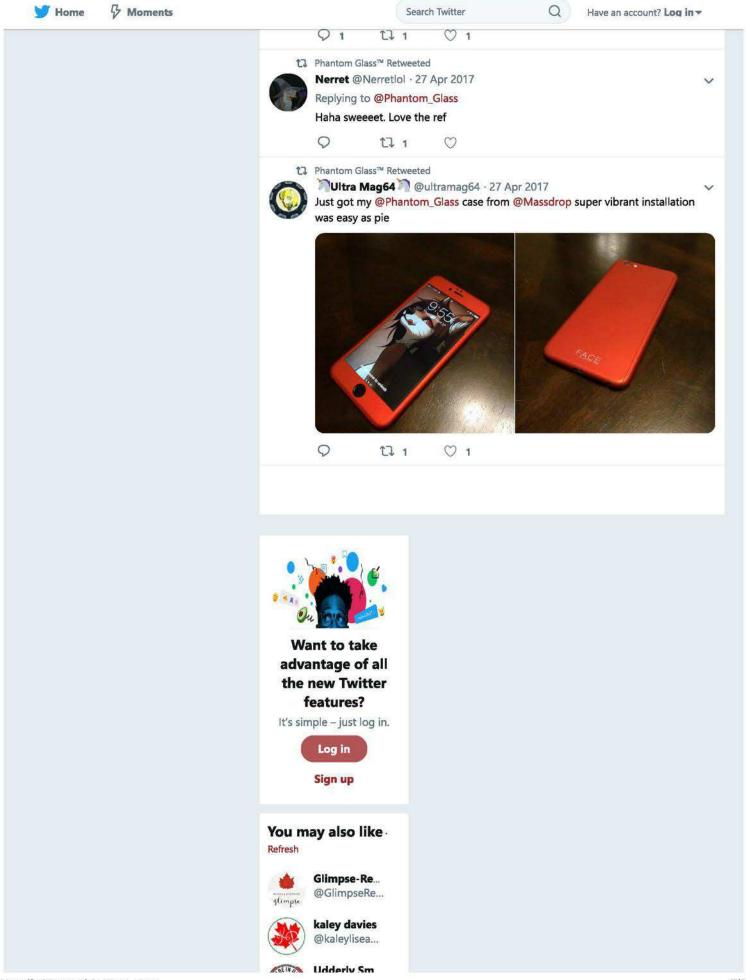


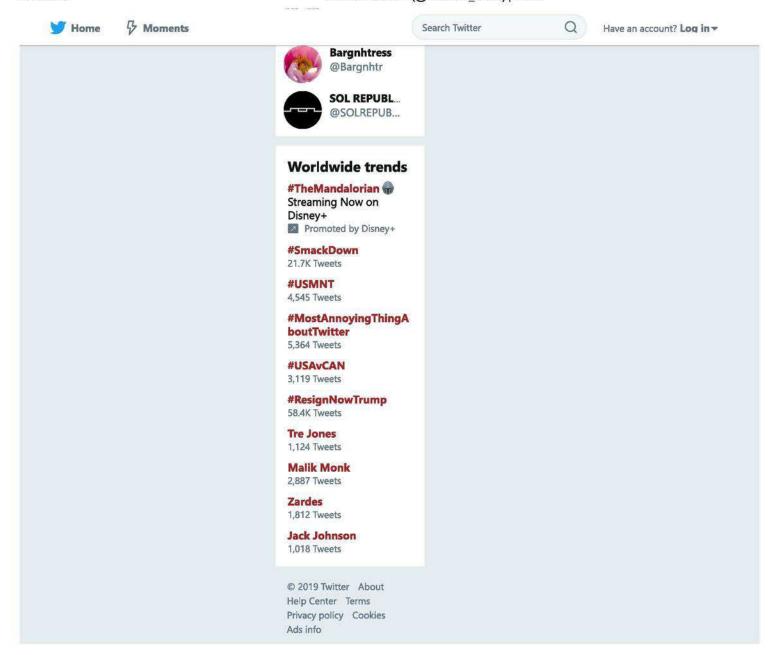


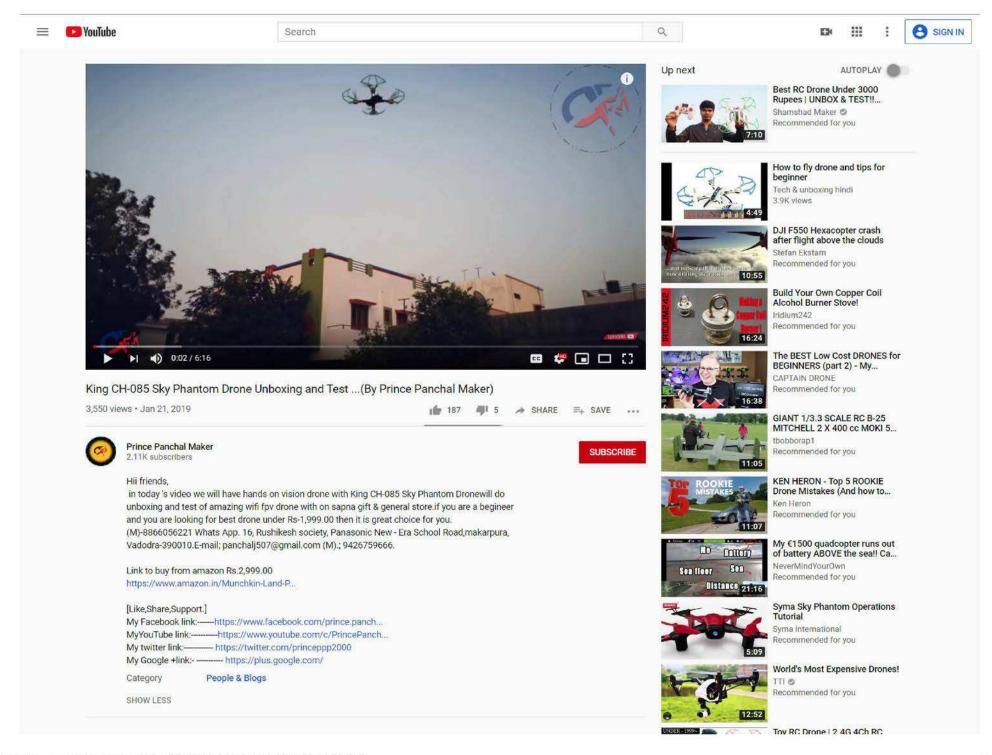


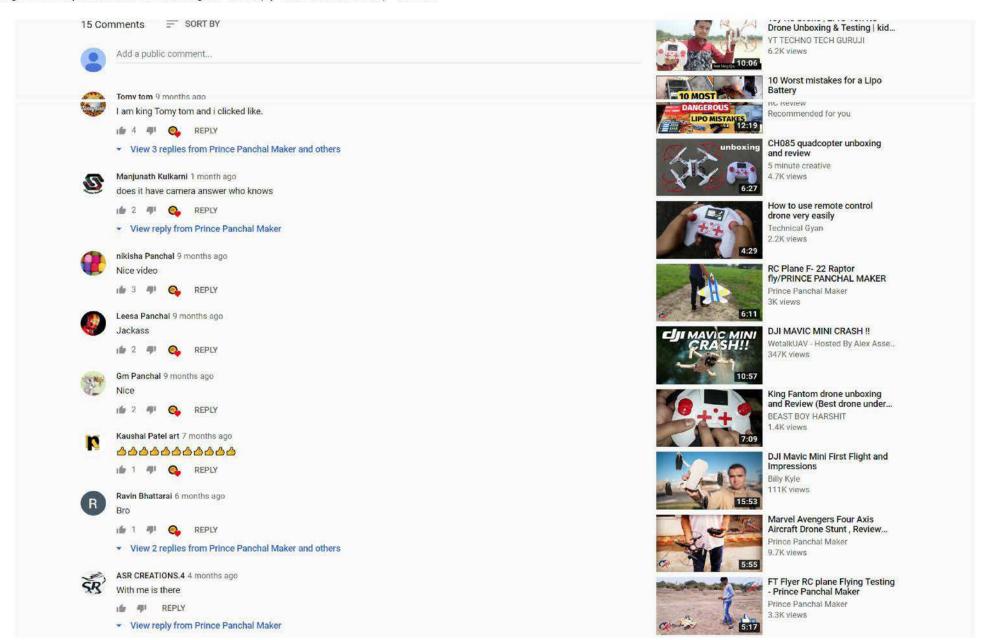


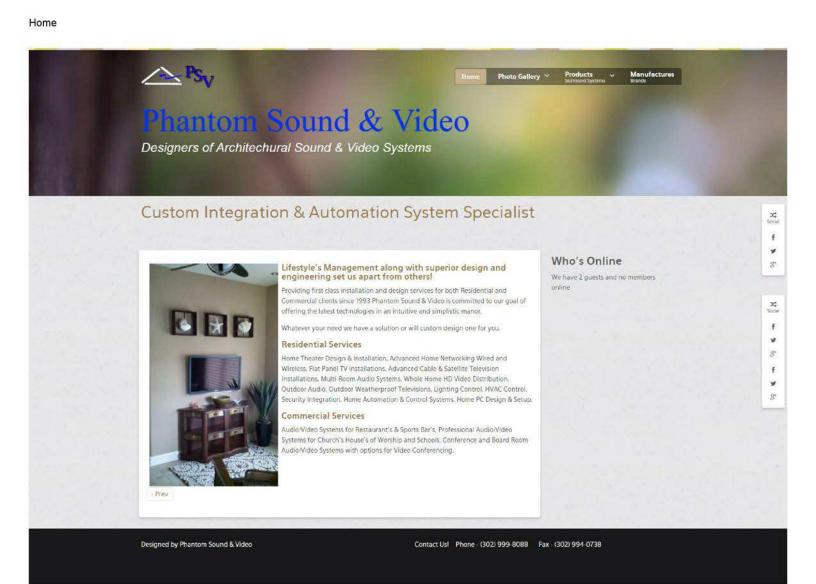














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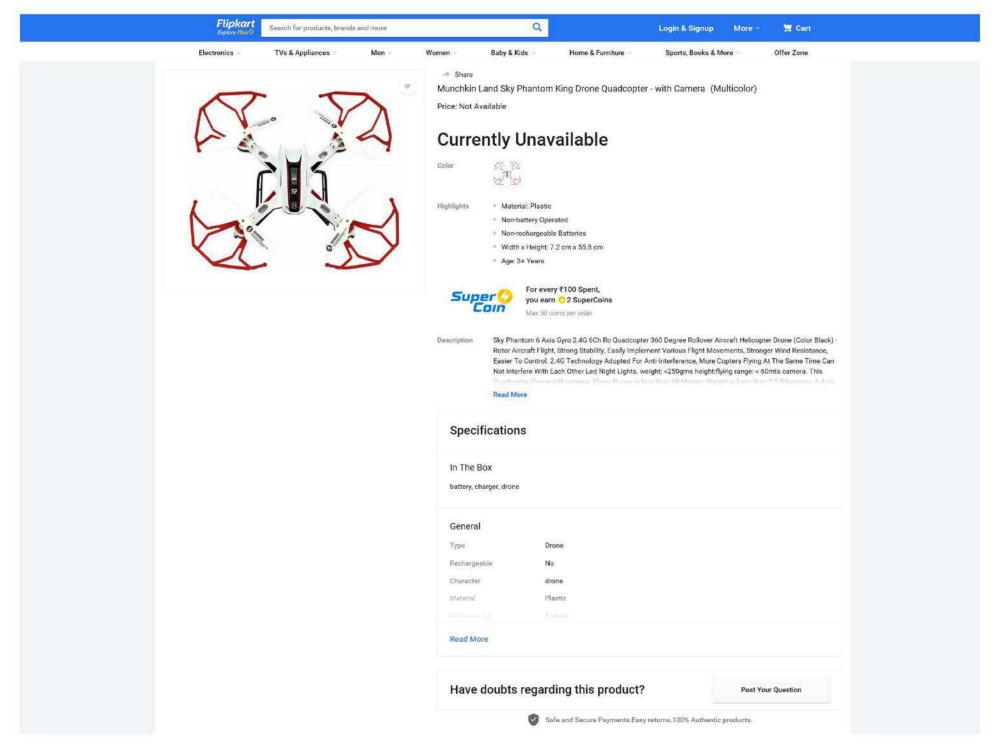


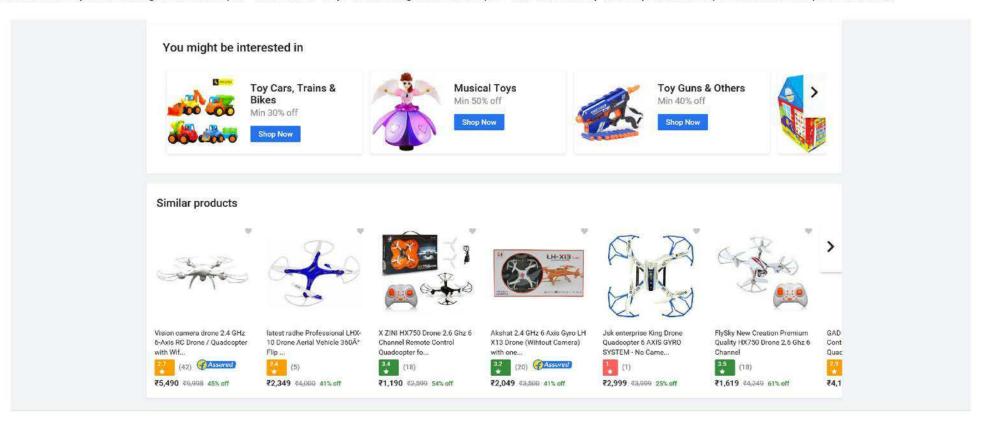
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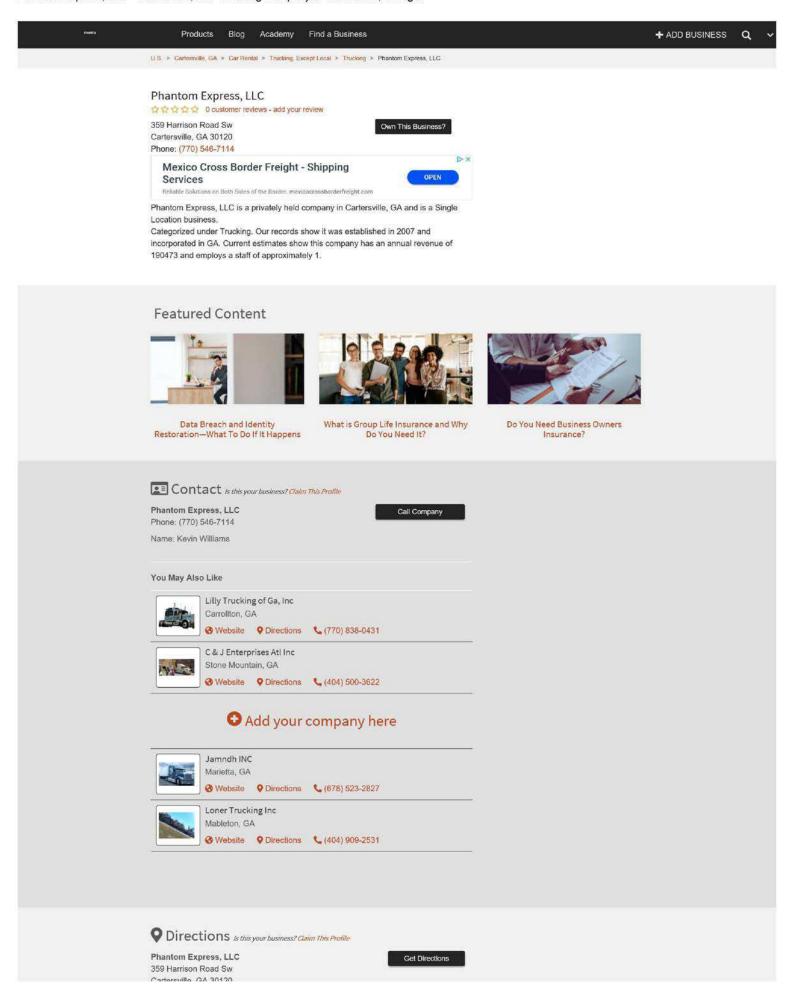


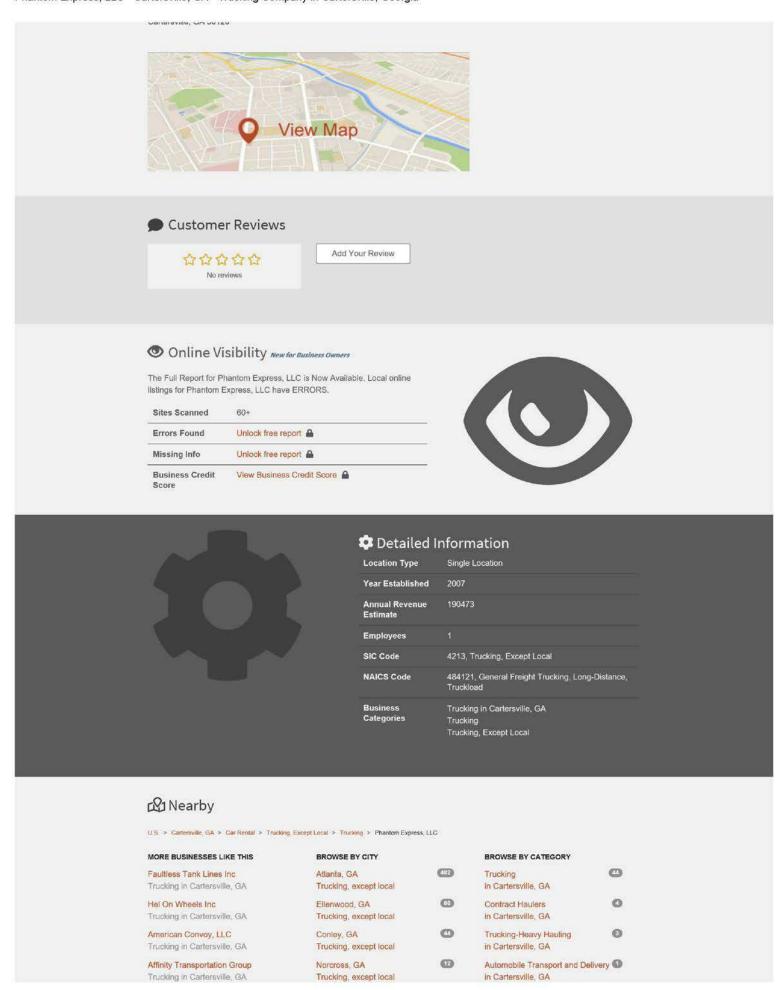


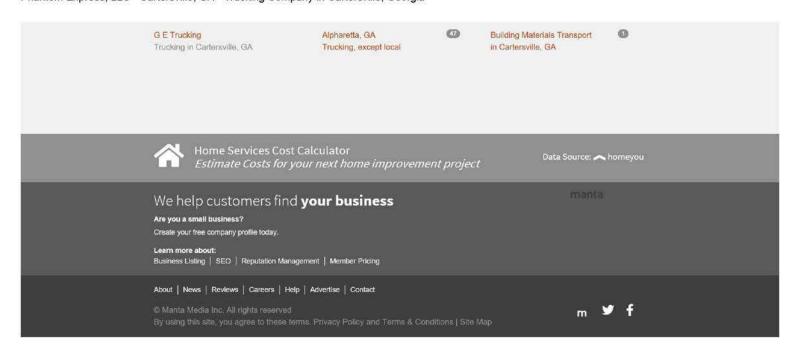
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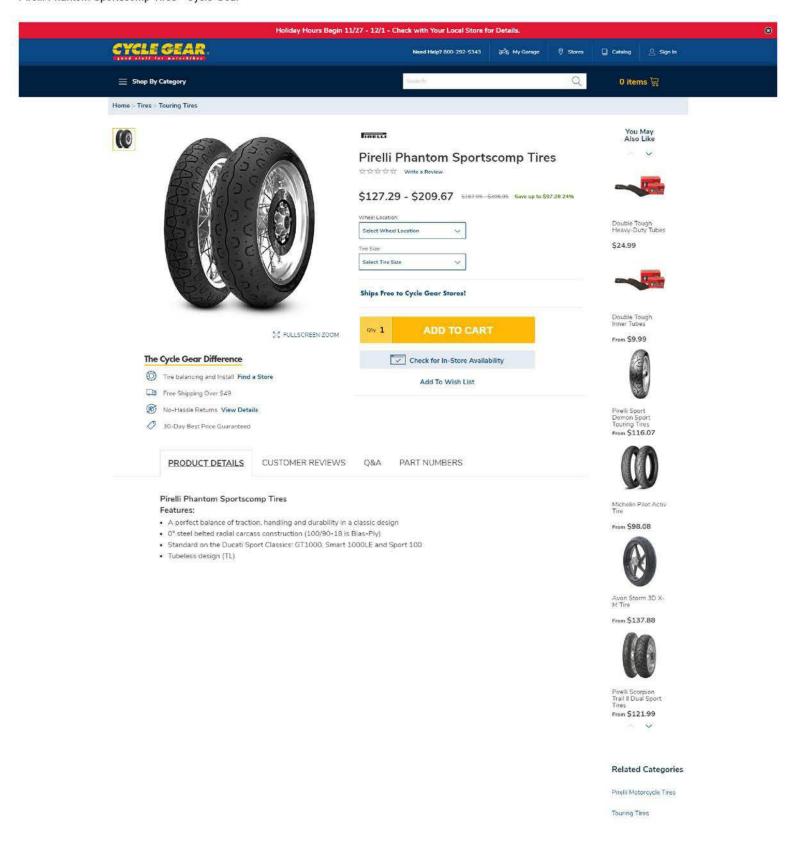
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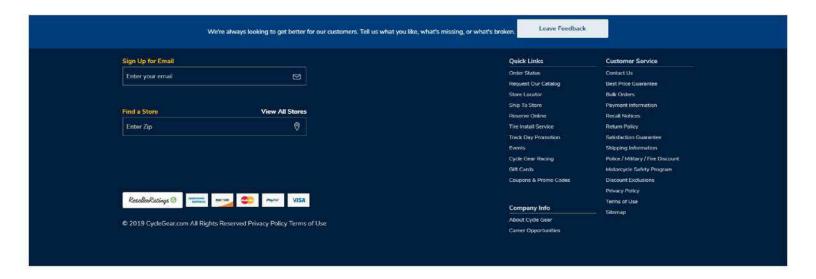












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2-1/16" (52.4mm)	38



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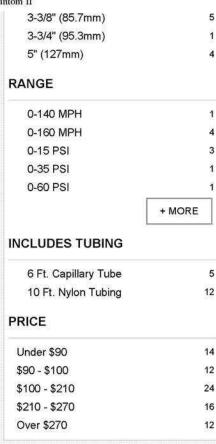
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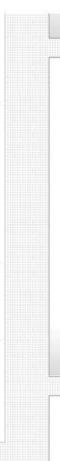
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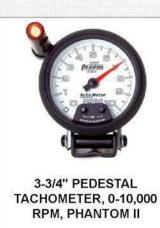
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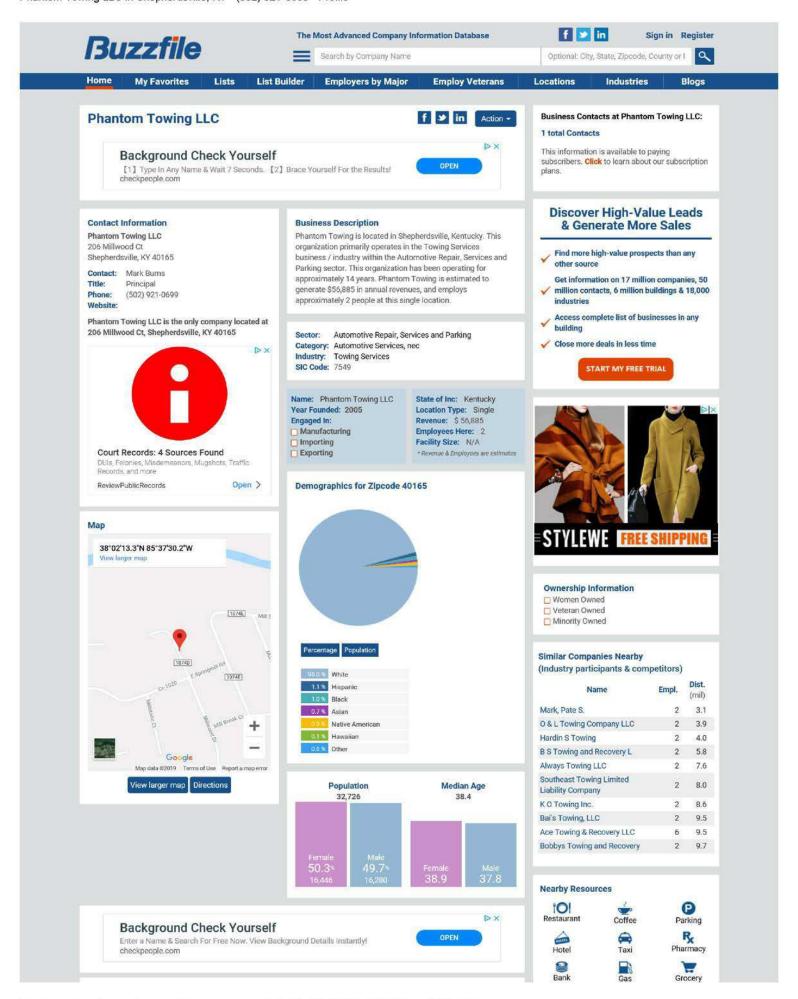
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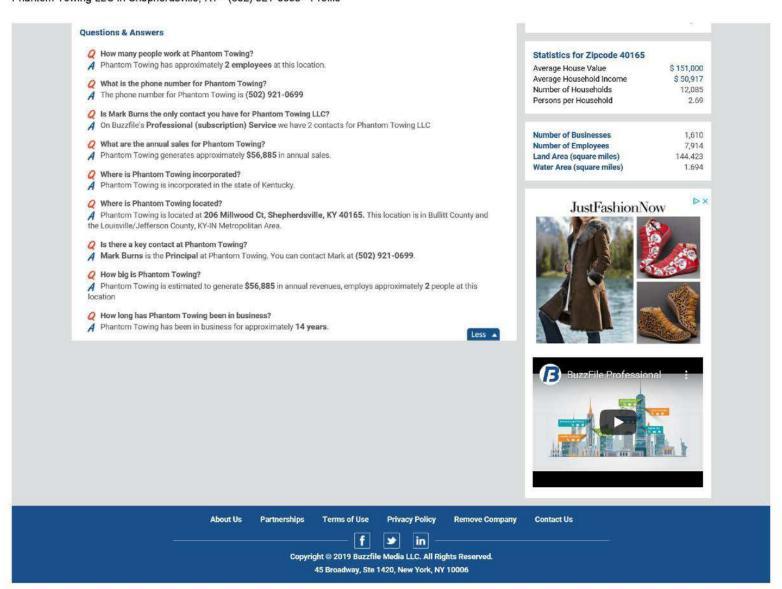


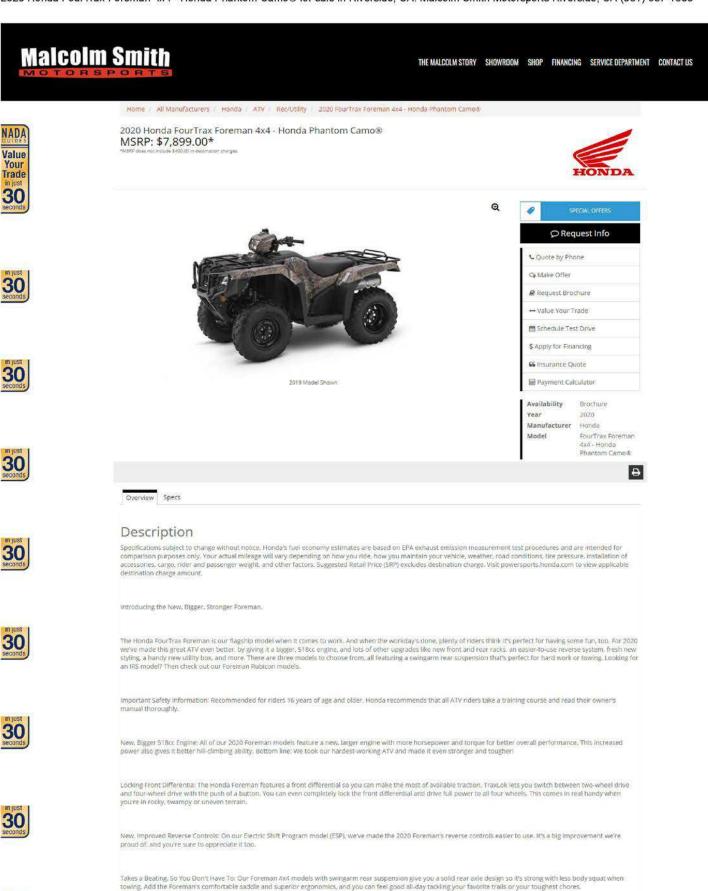




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New, Bigger 518cc Engine: We gave the FourTrax Foreman a bigger engine this year, thanks to a Amm increase in bore size. The result? More horsepower, more torque.

Rack 'Em Up: The Foreman models feature rugged front and rear racks, but now there's a twist: They incorporate panels and receivers that integrate with our all new Honda

and even better overall performance. The increased power also gives your Foreman better hill-climbing ability.

New Electric Reverse: Available on our Electric Shift Program (ESP) model, this single lever is a big improvement when it comes to convenience and ease of operation. It's especially useful when you have to shift from forward to reverse repeatedly, like when you're plowing snow.

Pro-Connect³⁰ system. Want to add a cargo box or other accessories quickly? Now it's as simple as snapping a couple of latches. Smart.

d



















- New 1.9-liter Front Juliity Box: The Perfect Size for small items you want to access quickly—like a cell prione. GHS, or a spare pair or gloves.

 New Front and Rear Cargo Racks: The Pereman's racks feature strong, steel construction, but how they include a larger flat area. Better yet, they're designed to integrate
- with our new Honda Pro-Connect** system. You can quickly attach and detach accessories like our cargo boxes, without tools, for added flexibility and convenience.

 Wider Front Driveshalt Guards: Designed to add even more coverage to the Foreman's front axles and outboard CV joints, the new guards are another example of how Honda engineers strive to constantly keep improving one of the best ATVs on the planet.
- . New Assist Headlight: We're talking about the Foreman's third headlight here—the one that turns with the handlebar. We've upped the power for 2020 to 50 watts, and updated the styling too.
- . Styling: Our Fareman models' bodywork still gives these ATVs a tough look that's designed to last, shrugging off the scrapes and dings of the job or the woods. But now they look even better, with new color choices, crisp, bold lines and powerful, all-new graphics that really make a statement.
 Liquid Cooling: Our time-tested Honda engine is liquid-cooled to provide more consistent operating temperatures and more power than a comparable air-cooled
- engine. This adds up to better performance and longer engine life.
- Traxt.ok: Our rock-solid Traxt.ok system lets you select either 2WD or 4WD, giving you the freedom to choose between lighter steering (in 2WD) and maximizing available traction (in 4WD) when you need it most.
- Electronic Differential Lock: When you're in 4WD mode and you need to get the power to both front wheels, just flip the switch on the electronic differential lock to maximize available traction. The vehicle display will tell you when the diff lock is fully engaged.
 Available Electric Shift Program (ESP): Upshifting and downshifting has never been this easy; With Honda's optional ESP system, you get the ease of push-button shifting.
- with the strength of a conventional transmission. To shift up or down all you have to do is push one of two handlebar-mounted buttons. Since there's no foot-shift lever
- ESP is also a bonus when riding in heavy mud- or snow-covered boots.

 Semi-Dry-Sump Engine Design: Compact and light-weight, the Foreman's overhead-valve, semi-dry-sump design creates an engine that's not only shorter from top to
- bottom, but one that enhances handling by lowering the center of gravity and increasing ground clearance.

 Fuel injection: By incorporating an oxygen sensor into the system, the Foreman delivers both better fuel efficiency and lower emissions. The ECU instantly adjusts the
- fuel injection mapping to match riding conditions for maximum fuel efficiency. The result: more time on the trail and more money in your pocket.

 Longitudinal Engine Layout: By crienting the engine crankshaft front to back, we route the flow of power straight to the wheels without any unnecessary right-angle detours, reducing powertrain friction and putting more grunt to the ground.
- Comfortable Seat: A plush seat and open rider triangle (bars/seat/pegs) teams up with the suspension to really treat you right. Superior ergonomics have always been a Honda priority, and the Foreman is no exception. With thick, soft foam, it's supremely comfortable.
 Swingarm Suspension: The Foreman 4x4 rear swingarm with its solid axie provides superior capability for towing and hauling. Its long suspension stroke and plush seat:
- let you tackle your favorite trail or the toughest chores in comfort all day long.

 35W Headlights: Your exploring or work doesn't have to stop when the sun goes down. Powerful twin headlights offer excellent illumination for the task at hand.

 Powerful Alternator Output. An alternator offering extra output means the Foreman is capable of handling more of your accessory power needs.
- . Digital Meter: In addition to the basics, the Foreman's instrument panel offers extra information; a clock, water temperature gauge, our "maintenance minder" system
- . Easy Service Access: The Foreman's body styling is not only aggressive, it's functional. It features a tank and side covers that come off in one piece and without using any
- tools. That means guick and easy access to the engine.

 Superior Cargo Capacity: With strong, steel cargo racks front and rear, both offering increased flat surface area than earlier models, the Foreman is ready to carry what you need.

Eng/ne

- Engine Type: 518cc liquid-cooled OHV longitudinally mounted single-cylinder four-stroke
- induction: PGM-FI
- Ignition: Full-transistorized type with electronic advance
- Starter: Electric with optional auxiliary recoil
- Compression Ratio: 9.5:1

- · Clutch: Automatic
- . Transmission: Five-speed with Reverse
- . Driveline: Direct front and rear driveshafts with TraxLok and front differential lock

Chassis / Suspension / Brakes

- Front Suspension: Independent double-wishbone, 7,28 inches of travel
 Rear Suspension: Swingarm with single shock; 7,28 inches of travel

- Front Brakes: Dual hydraulic 190mm disc Rear Brakes: Sealed 160mm mechanical drum
- Front Tires: 25 x 8-12
- Rear Tires: 25 x 10-12

Dimensions

- Length: 82.8 inches
 Width: 47.4 inches
- Height: 48.0 inches
- Wheelbase: 50.0 inches
- Seat Height: 34.2 inches
- . Ground Clearance: 7.5 inches
- Curb Weight: 636 pounds (includes all standard equipment, required fluids and a full tank of fuel—ready to ride) Fuel Capacity: 3.9 gallons, including 1.3 gallon reserve
- . Turning Radius: 10.5 feet

- Model ID: TRX520EM1
- Emissions: Meets current EPA CARB (California) off-road emissions standards. Available Colors: Honda Phantom Camo®
- Note: Recommended for riders 16 years of age and older.

Factory Warranty Information

One Year: Transferable limited warranty; extended coverage available with a Honda Protection Plan.

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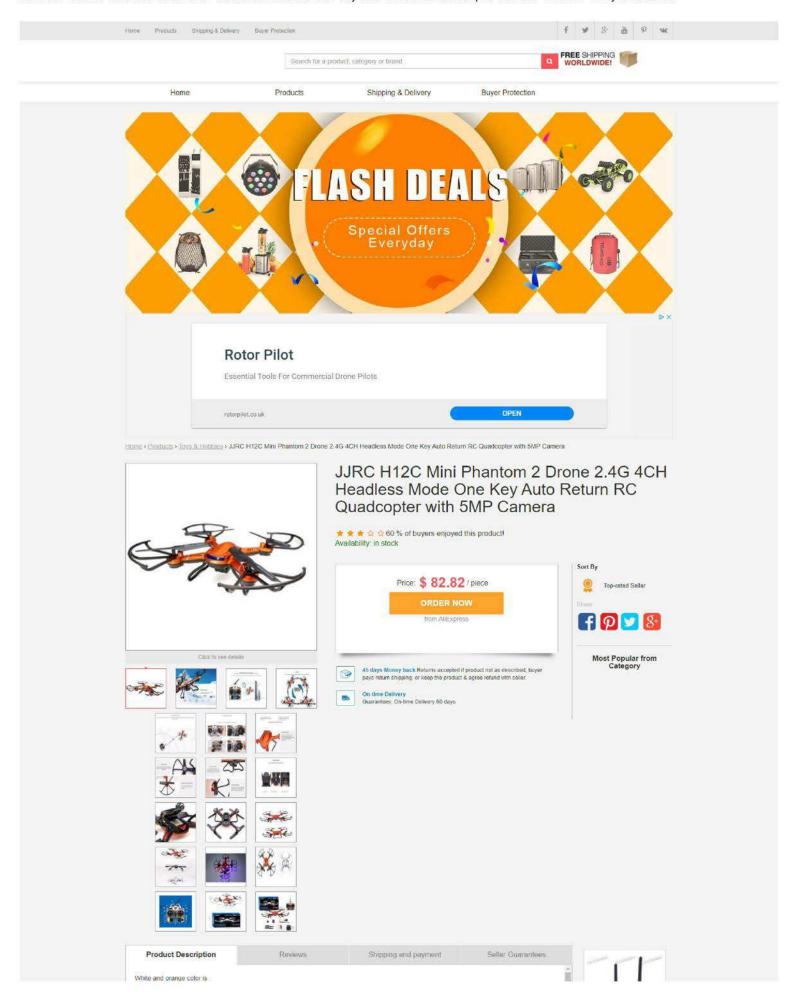
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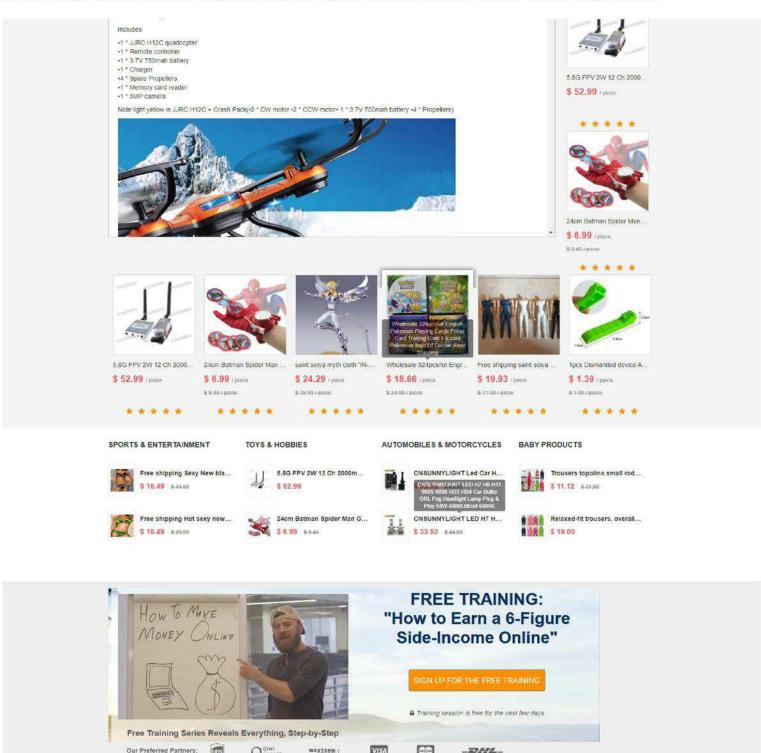
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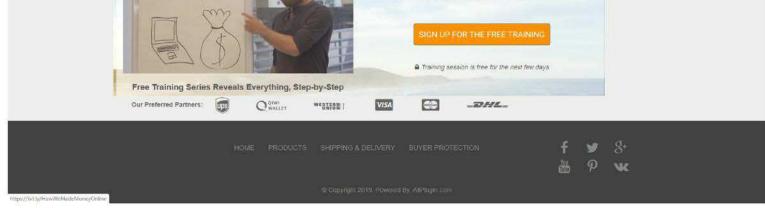
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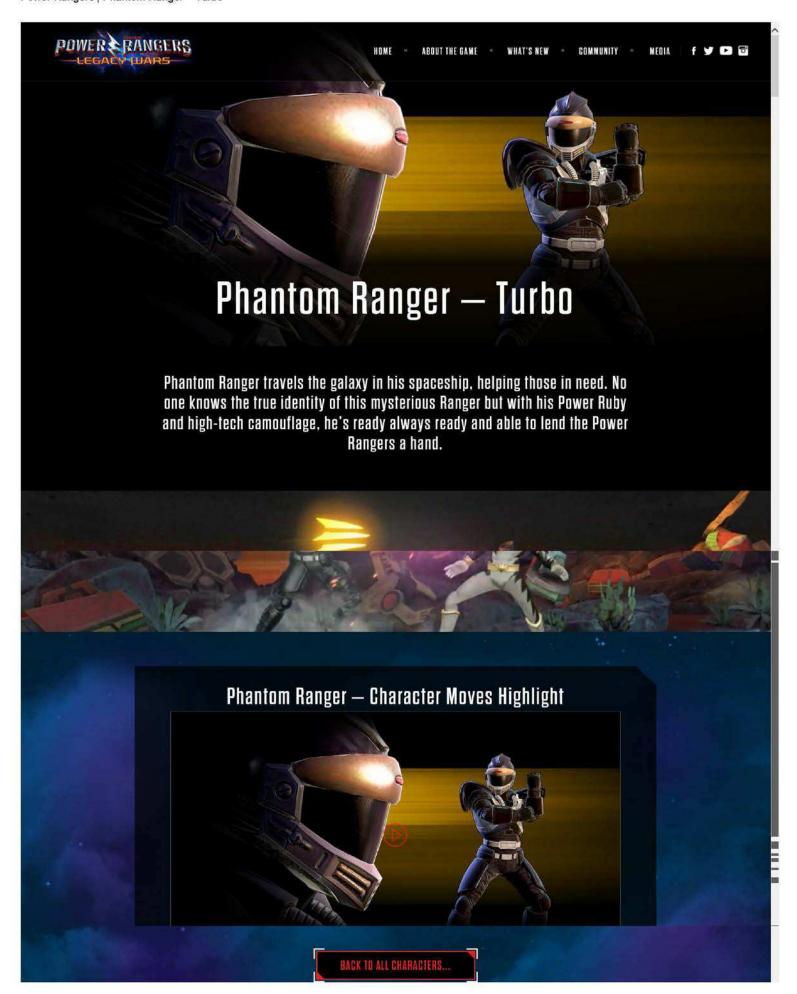
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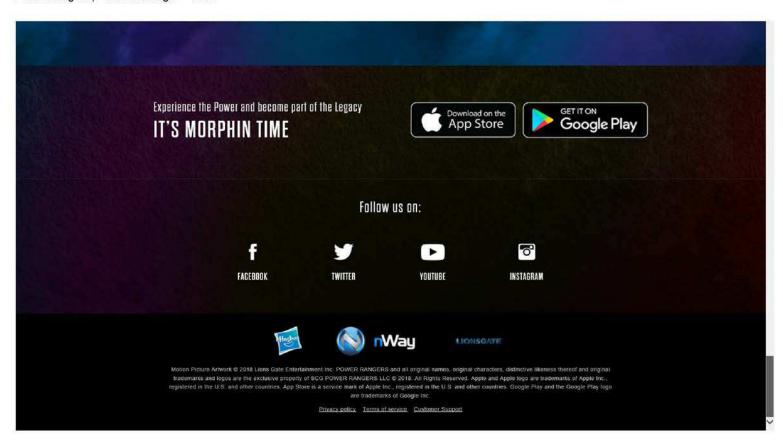












O USDOT Number	O MC/MX Number	O Name
Enter Value:	2173025	
	Search	

Company Snapshot

PHANTOM CARTING INC USDOT Number: 2173025

ID/Operations | Inspections/Crashes In US | Inspections/Crashes In Canada | Safety Rating

Carriers: If you would like to update the following ID/Operations information, please complete and submit form MCS-150 which can be obtained online or from your State FMCSA office. If you would like to challenge the accuracy of your company's safety data, you can do so using FMCSA's DataQs system.

Other Information for this Carrier

- **▼** SMS Results
- ▼ Licensing & Insurance

Carrier and other users: FMCSA provides the Company Safety Profile (CSP) to motor carriers and the general public interested in obtaining greater detail on a particular motor carrier's safety performance then what is captured in the Company Snapshot. To obtain a CSP please visit the CSP order page or call (800)832-5660 or (703)280-4001 (Fee Required).

For help on the explanation of individual data fields, click on any field name or for help of a general nature go to SAFER General Help.

The information below reflects the content of the FMCSA management information systems as of 11/19/2019.

Entity Ty	pe: CARRIER					
Operating Stat	us: ACTIVE	0	ut of Service Date:	None		
Legal Nar	ne: PHANTOM CARTING INC					
DBA Nar	ne:					
Physical Addre	275 ELLSWORTH AVE HOLBROOK, NY 11741					
Pho	ne: (347) 278-7708					
Mailing Addre		3 SOUTH DR VALLEY STREAM, NY: 11581				
USDOT Numb	er: 2173025	State 0	Carrier ID Number:			
MC/MX/FF Number	<u>s):</u>			-		
Power Un	its: 32		Drivers:	28		
MCS-150 Form Da	ite: 04/02/2019	MCS-1	50 Mileage (Year):	300,000 (2018)		
Operation Classificati	on:					
	Auth. For Hire Exempt For Hire X Private(Property) Priv. Pass. (Business)	Priv. Pass.(Non- business) Migrant U.S. Mail Fed. Gov't	State Gov Local Gov Indian Nat	't		
Carrier Operation:	Interstate	Intrastate Only	_x Intrastate	Only		
		(HM)	(Non-HM)			
Cargo Carried:						
	General Freight	Liquids/Gases	Chemi	cals		
	General Freight Household Goods	Liquids/Gases Intermodal Cont.		cals odities Dry Bulk		
	Household Goods Metal: sheets, coils,	Intermodal Cont. Passengers	Comm			
	Household Goods Metal: sheets, coils, rolls	Intermodal Cont. Passengers Oilfield	Comm Refrige Bevera	odities Dry Bulk erated Food ges		
	Household Goods Metal: sheets, coils, rolls Motor Vehicles	Intermodal Cont. Passengers Oilfield Equipment	Comm Refrige Bevera Paper	odities Dry Bulk erated Food ges Products		
	Household Goods Metal: sheets, coils, rolls Motor Vehicles Drive/Tow away	Intermodal Cont. Passengers Oilfield Equipment Livestock	Comm Refrige Bevera Paper Utilities	odities Dry Bulk erated Food ges Products		
	Household Goods Metal: sheets, coils, rolls Motor Vehicles	Intermodal Cont. Passengers Oilfield Equipment	Comm Refrige Bevera Paper Utilities Agricul	odities Dry Bulk erated Food ges Products s tural/Farm		
	Household Goods Metal: sheets, coils, rolls Motor Vehicles Drive/Tow away Logs, Poles, Beams,	Intermodal Cont. Passengers Oilfield Equipment Livestock Grain, Feed, Hay	Comm Refrige Bevera Paper Utilities	odities Dry Bulk erated Food ges Products s tural/Farm		
	Household Goods Metal: sheets, coils, rolls Motor Vehicles Drive/Tow away Logs, Poles, Beams, Lumber	Intermodal Cont. Passengers Oilfield Equipment Livestock Grain, Feed, Hay Coal/Coke Meat	Comm Refrige Bevera Paper Utilities Agricul Supplie * Constr	odities Dry Bulk erated Food ges Products s tural/Farm es		
	Household Goods Metal: sheets, coils, rolls Motor Vehicles Drive/Tow away Logs, Poles, Beams, Lumber Building Materials	Intermodal Cont. Passengers Oilfield Equipment Livestock Grain, Feed, Hay Coal/Coke	Comm Refrige Bevera Paper Utilities Agricul Supplie * Constr Water	odities Dry Bulk erated Food ges Products s tural/Farm es		

ID/Operations | Inspections/Crashes In US | Inspections/Crashes In Canada | Safety Rating

US Inspection results for 24 months prior to: 11/19/2019

Total Inspections: 19 Total IEP Inspections: 0

Note: Total inspections may be less than the sum of vehicle, driver, and hazmat inspections. Go to Inspections Help for further information.

		Inspections:		
Inspection Type	Vehicle	Driver	Hazmat	IEP
Inspections	17	18	0	0
Out of Service	10	0	0	0
Out of Service %	58.8%	0%	%	0%
Nat'l Average % (2009- 2010)	20.72%	5.51%	4.50%	N/A

Crashes reported to FMCSA by states for 24 months prior to: 11/19/2019

Note: Crashes listed represent a motor carrier's involvement in reportable crashes, without any determination as to responsibility.

Crashes:					
Туре	Fatal	Injury	Tow	Total	
Crashes	0	2	0	2	

ID/Operations | Inspections/Crashes In US | Inspections/Crashes In Canada | Safety Rating

Canadian Inspection results for 24 months prior to: 11/19/2019

Total inspections: 0

Note: Total inspections may be less than the sum of vehicle and driver inspections. Go to Inspections Help for further information.

Inspection Type	Vehicle	Driver
Inspections	0	0
Out of Service	Ö	0
Out of Service %	0%	0%

Crashes results for 24 months prior to: 11/19/2019

Note: Crashes listed represent a motor carrier's involvement in reportable crashes, without any determination as to responsibility.

		Crashes:		
Туре	Fatal	Injury	Tow	Total
Crashes	0	0	0	0

ID/Operations | Inspections/Crashes In US | Inspections/Crashes In Canada | Safety Rating

The Federal safety rating does not necessarily reflect the safety of the carrier when operating in intrastate commerce.

Carrier Safety Rating:

The rating below is current as of: 11/19/2019

Review Information:

Rating Date:	None	Review Date:	None	
Rating:	None	Туре:	None	



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Federal Motor Carrier Safety Administration 1200 New Jersey Avenue SE, Washington, DC 20590 • 1-800-832-5660 • TTY: 1-800-877-8339 • Field Office Contacts

Phantom Motor Works LLC

Car & Truck Repair And Maintenance & Custom Fabrication in Cumberland Opening at 8:00 AM tomorrow



UPDATES



Posted on Aug 16, 2019

Posted on Aug 23, 2019 Its Fall Parade Season!!! We are here to help get your cars, toys, and floats ready! Check out our Facebook Page by going to PMWRI.COM to see previous parade vehicles. Give us a call!

Welcome to the new Phantom Motor Works LLC Website. We are excited to be able to get this website up and running so we may share accomplishments, pictures, reviews, and events.

CALL NOW

Here at Phantom Motor Works myself and my partner strive to put out the best work possible to have all of our customers leave here with a smile on their face.

We offer many services here, general auto repair, small engine repair, power sports customization and repair, hydraulic repairs along with commercial truck repairs and welding services. Our specialty work is auto customization and restoration, carburetor repair and rebuilds, along with welding and fabrication of specialty items & Media Blasting.

We are also dealer level trained on the following heavy equipment brands: Prentice, PalFinger, Terex, Altec, Fassi, VersaLift & Elliot.

We are a local dealer of Scorpion Bed Liners.

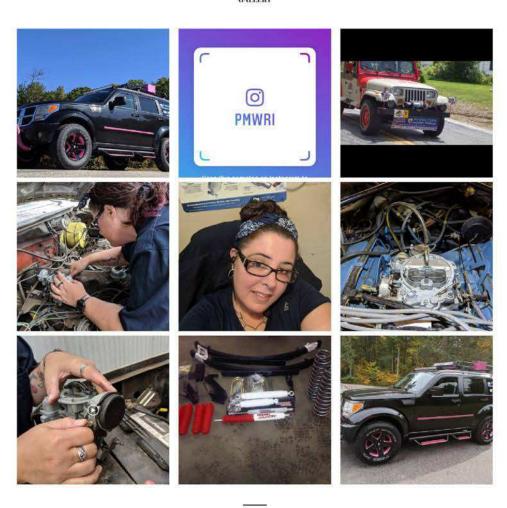
We offer CAD Design and laser/waterjet fabrication.

Together, our combined experience in all of these areas is over 30 years.

We offer full explanation diagnostics and provide detailed estimates when requested. We have competitive pricing on all services & we offer a great referral program!

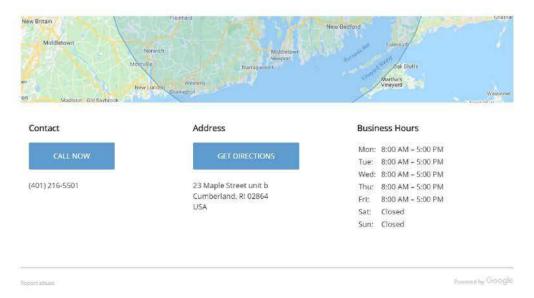
Along with all these services we offer a great financing program.

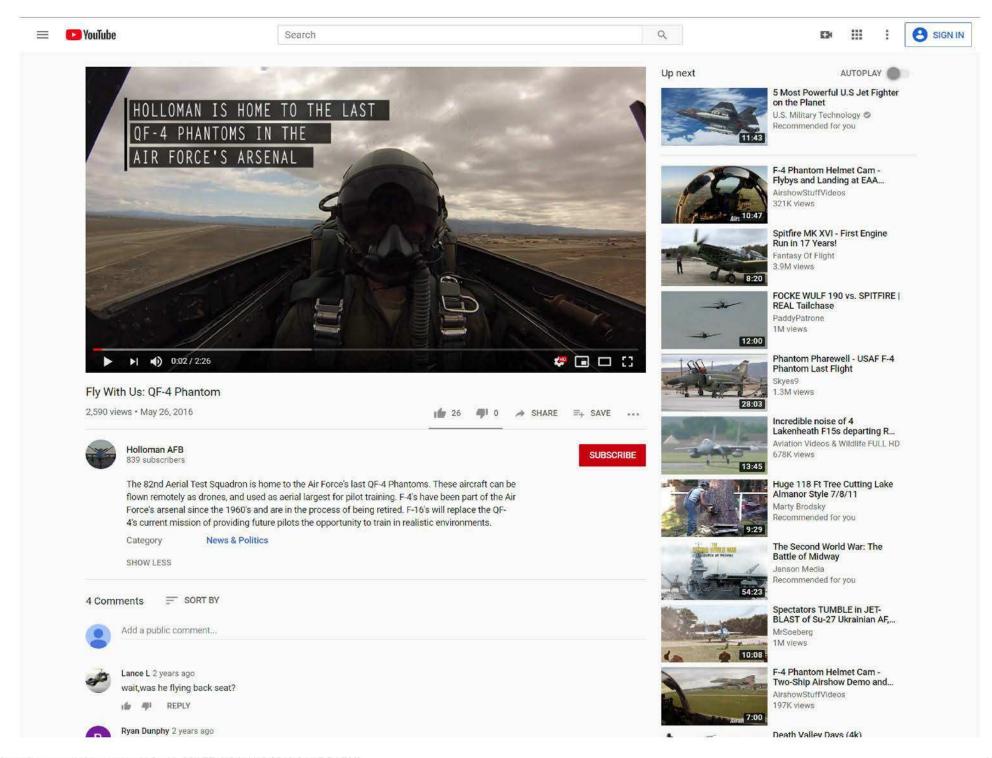
GALLERY



CONTACT US









whats the name of the song?

I REPLY



jnic69 2 years ago

The inforgraphic at 0:17 should say 17,000 lbs of thrust x2. The J79s make 17,000 each. Other than that really cool video

if # REPLY



Nick Kerssens 3 years ago

Like driving Ferrari, but still much much better. Oh man that we were born with wings and fire in our ass...jWhoww

im # REPI



Dafydd Phillips 3.9M views



PBS: Carrier - Landing on a Pitching Deck Pt. 1 Superfly7XAF 2.7M views



Blue Angels F4 Phantom "Diamond on the sky" Gian Salva 18K views













Seller ID: chuck241549 Listing Type: Fixed Price Item List Date: 03/29/2018

End Date: 06/04/2018

Item ID: 323176432917

Category: Other RC Model Vehicles & Kits.

Location: Phoenix, AZ

Home » Toys & Hobbies » Radio Control & Control Line » RC Model Vehicles & Kits

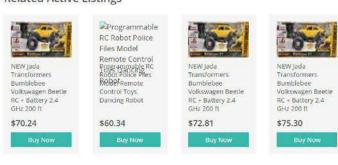
Cheerwing s107/s107g phantom 3ch 3.5 channel mini rc helicopter with gyro red

\$22.78 to Buy This? Have one to self? Description Item specifics

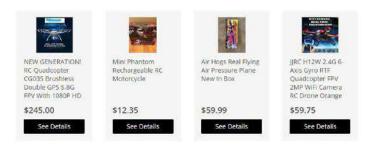
Cheerwing \$107/\$107G Phantom 3CH 3.5 Channel Mini RC Helicopter with Gyro Red This \$107 mini rc helicopter is the world's most durable and stable helicopter. The Item comes with thelatest gyro system for precision control. The metal frame has proven to withstand dozens of crashes. The mini helicopter charges directly from the controller which uses "AA" batteries and has a full-function trim control for the perfect flight. Get one today before they all fly away! Features: * 2 Selectable Frequencies Let's You Fly Up To 2 Helicopters At Once * Upgraded metal frame for durability Upgrade gyro system for precise control * 3-channel, Infrared Control (Allows for Forwar/Backward, Left/Right, Up/Down movements) * Auto Stable & Precision Speed * Miniature Size & Light Weight * Small Size Provides Agility and Speed * Made of a Unique Material to Withstand Crashes * Super Wide Infrared Control * Easy to fly * Complete Kit, Ready to Fly * Manufactured by Syma Specifications: * Main Rotor Diameter (Lower): 190mm * Tail Rotor Diameter: 30mm * Fuselage Length: 220mm * Fuselage Height: 98mm * Fuselage Width: 38mm * Power System: 180 motor*2 * Flight Duration: 5-6 Minutes * Helicopter Battery: 3.7V 180mah Lithlum-Polymer (LI-Poly) Battery Operating Temperature: 10-45°C * Transmitter Battery: 6 x 1.5v AA Alkaline Batteries (not included) * Charger: Integral Transmitter/Charger supplied with LED Indicator/Auto shut off * Charge time: 50-60 minutes for full charge Package Includes: $*1 \times S107$ Mini Helicopter $*1 \times Controller *1 \times USB$ Charging Cable $*1 \times Tall$ Propeller $*1 \times Instruction Manual 3-channel, Infrared Control (Allows for$ Forwar/Backward, Left/Right, Up/Down movements) 2 Selectable Frequencies Let's You Fly Up To 2 Helicopters at the same time Upgrade gyro system for precise control, Upgraded metal frame for durability Manufactured by Syma; Small Size Provides Agility and Speed Colorful flashing light, keep your Helicopter at night Flying is quite excellent. Height: 610 x Length: 1680 x Width: 260 Cheerwing S107/S107G Phantom 3CH 3.5 Channel Mini RC Helicopter with Gyro Red 3-channel, Infrared Control (Allows for Forwar/Backward, Left/Right, Up/Down movements)2 Selectable Frequencies Let's You Fly Up To 2 Helicopters at the same timeUpgrade gyro system for precise control, Upgraded metal frame for durabilityManufactured by Syma Small Size Provides Agility and SpeedColorful flashing light, keep your Helicopter at night Flying is quite excellent, Cheerwing \$107/\$107G Phantom 3CH 3.5 Channel Mini RC Helicopter with Gyro Red This S107 mini rc helicopter is the world's most durable and stable helicopter. The item comes with thelatest gyro system for precision control. The metal frame has proven to withstand dozens of crashes. The mini helicopter charges directly from the controller which uses "AA" b Shipping is FREE to all addresses other than APO/PO boxes in the lower 48 states. Our stock all ships from our US-based warehouses. Shipped via USPS or UPS (depending on location and package weight) Unless stated otherwise, all orders will ship within 24 hours of your payment being processed. Check our feedback to see the great reviews of FAST shipping we offer. PAY SAFE: PAYPAL PAYMENT IS ACCEPTEDWe offer a 30-day return policy for our products. We stand: behind our products, items can be returned for exchange or full refund within 30 days from the date you receive your merchandise. We are not responsible for any purchase after this 30-day period.Return shipping is the responsibility of buyer unless the return is a result of our mistake. We will pay for shipping replacement back to you if an exchange is requested. If you have any questions please contact us through "Ask seller a question" link. We will respond within 1 business day or less. All returns must be done within 30 days of the date of purchase. Please note that we cannot give refunds after the 30 day limit has expired. When sending in a return, please note that it can take up to 7 business days for the return to be processed. We do our best to process as quickly as possible. DELIVERY TIMESDomestic lower 48 free shipping is expedited. We have many different shipping locations depending on the product you buy and the shipping location that you choose. We try to ship most items within 24 hours of payment Monday-Friday. Most orders are in transit for two days but some may take longer. If you have a specific time frame please contact us before you make the

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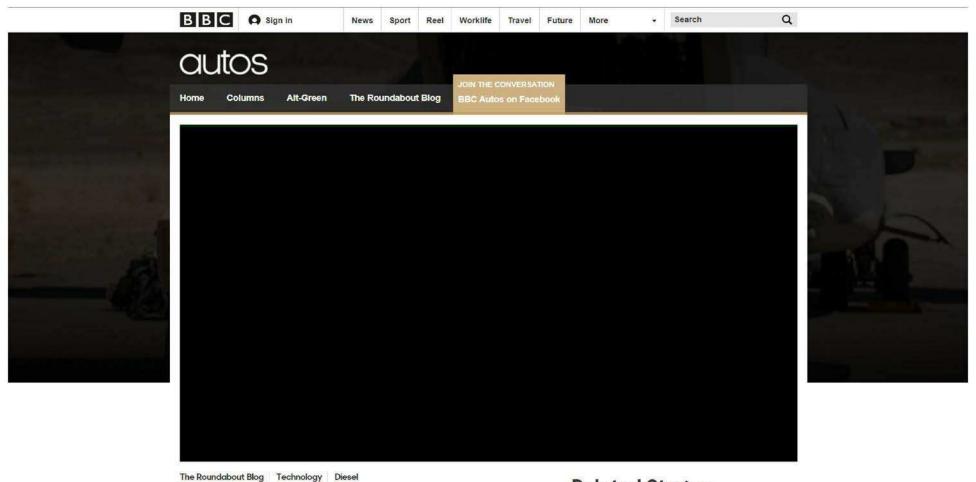
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Related Sold Listings







Phantom Badger, reporting for duty

The Willys MB - better known as the original jeep - was a game-changer during World War II. Small, agile, versatile and durable, jeeps were easy to deploy, easy to operate and easy to maintain, making them perhaps the Allies' most important battlefield equipment. More than 70 years later, US aircraft maker and defence supplier Boeing has revisited the original jeep's winning formula in a stocky little bruiser of a car called the Phantom Badger.

Related Stories





By Matthew Phenix

13 November 2014

Like the MB, the Phantom Badger is compact – just 60 inches wide – and, with four-wheel steering, it is highly manoeuverable. The setup gives the vehicle a turning circle of just 24ft – fully 10ft tighter than a Mini Cooper's. Such agility is particularly valuable in urban environments, where the ability to make tight turns and slip through narrow alleys can change the outcome of a battle.

Vital Stats Boeing Phantom Badger

- · Gross vehicle weight: 7 850lbs
- · Payload canacity: 3 356lb
- Towing capacity: 4.000lbs
- Dimensions: 60in wide x 180in lon
- Engine: 3-litre turbocharged V6, multi-fuel capable (diesel or JP-8)
- Drivetrain: Four-wheel drive with a wheel steering
- Fuel consumption: 21mpg
- · Cruising range: Approx 450m

And like the original jeep, which employed a version of the Go Devil Lhead engine from Willys' civilian Americar line, the Phantom Badger makes use of the 3-litre turbo-diesel V6 from the Jeep Grand Cherokee. The engine – which can run on JP-8 jet fuel as well as diesel – produces 240 horsepower and 420 pound-feet of torque, sufficient to enable the four-wheel-drive Badger to reach a breezy 80mph on paved surfaces.

In designing the Phantom Badger, amid the usual military concerns for battlefield capability and occupant protection, Boeing remained conscious of such factors as mechanical simplicity, global parts availability and field serviceability. So the vehicle is light on expensive futuristic technology, and heavy on proven, commercially available hardware. It embodies, says Boeing spokesman Garrett Kasper, "the best of what's out there today – tires, lug nuts, seatbelts, you name it."

And the PB is more than merely tough; it is transportable. On 8 April, after a series of torture tests that included form-fit checks, pressure trials and structural evaluations, the US Navy officially certified the Phantom Badger for transport in the belly of the



Racing at its dirtiest



Can trucks be fashionable?



War machines for sale

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Bell Boeing V-22 Osprey tilt-rotor aircraft – a big step toward actual deployment with the US Marine Corps and US Air Force Special Operations, both of which already operate the Osprey.



(Boeing Defense, Space & Security)

With the vertical takeoff and landing capability of a helicopter and the speed and range of a traditional turboprop aircraft, the Osprey can deliver cargo to tight spaces and hostile environments and get out quickly. (The current record for offloading a Badger is just 17 seconds.) The Osprey first flew in 1989 and has known its share of troubles over the years – including a swollen budget and some highly publicised crashes. But it has since proven its mettle in Iraq and Afghanistan, as well as on humanitarian missions, including the delivery of relief supplies after Typhoon Yolanda hit the Philippines in November 2013. But the arrival of the Phantom Badger gives the 30-year-old aircraft a whole new lease on life.

"There was always an intention to have a dynamic payload [i.e., a vehicle] for the Osprey," says Kasper, "but the aircraft presented certain challenges, including weight and space restrictions, and a 40-degree break-over angle." The Osprey's cuboid cargo hold defined the Badger's shape and size, and the Badger's height-adjustable suspension and 35in tires manage the Osprey's ramp break-over. Hero, meet sidekick.

And the Osprey is merely the smallest aircraft that can accommodate a Phantom Badger. The C-130 cargo aircraft



The story behind China's 'digital' camo



The 10 most beautiful bicycles



Can you identify these star cars?



War machines for sale

and CH-47 Chinook helicopter hold two apiece, and the mighty C-17 transport can swallow 10 of them. (Any one of these options is a major upgrade from the big, slow Waco CG-4 gliders that delivered jeeps and other heavy loads to the front line during World War II.)



(Boeing Defense, Space & Security)

The Badger's real trick is its extraordinary versatility. The vehicle is designed to accommodate a variety of mission-specific rear modules. Boeing has designed 10 so far, including packages for reconnaissance, combat search and rescue, casualty transport and explosive ordnance disposal, along with mounts for such weapons as a .50-caliber machine gun and a 40mm automatic grenade launcher. Modules attach to the Badger body with six bolts at six connection points, and are interchangeable in the field in 30min or less.

Not a company known for its four-wheeled conveyances, Boeing created the Phantom Badger with the aide of North Carolina-based MSI Defense Solutions. The process, from first computer design to running prototype, took only six months. MSI applied its expertise in off-road racing, Nascar and Formula 1 to develop the Badger's suspension and four-wheelsteering systems, and is presently handling the design and fabrication of the interchangeable mission modules.

The Phantom Badger is tough, but it is no armoured personnel carrier. It was designed primarily for expeditionary missions,

where speed and maneuverability matter – just like the original Jeep. And like its heroic grandfather, the Phantom Badger will be a game-changer on the modern battlefield, able to go places and do things the outsize Hummer never could.



(Boeing Defense, Space & Security)

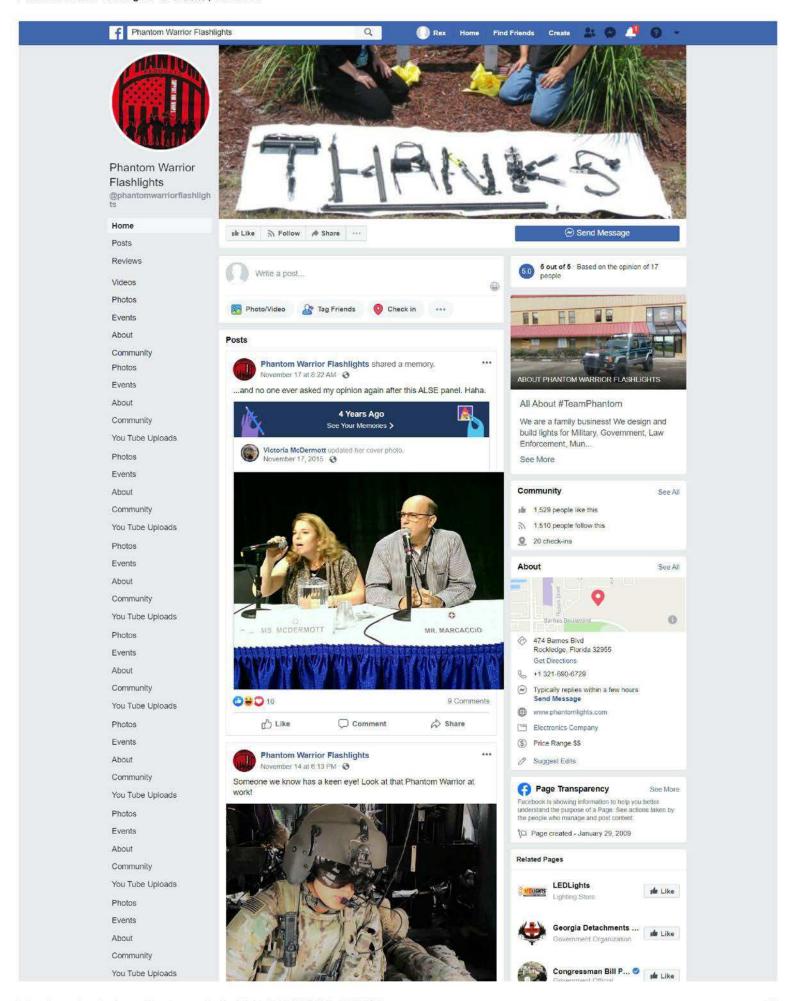
Although contracts with the US Department of Defense and other governments are in the works, Boeing has plans for the Phantom Badger that extend beyond the battlefield. The vehicle lends itself to fire-fighting, law enforcement, search and rescue and other applications. And how about a civilian version? "Absolutely, yes," says John Chicoli, Boeing's Phantom Badger program manager. "It is a commercial vehicle, and Boeing will gladly have a discussion with anyone is interested in purchasing Phantom Badgers for their collection or personal use." For now, however, Badger pricing remains classified.

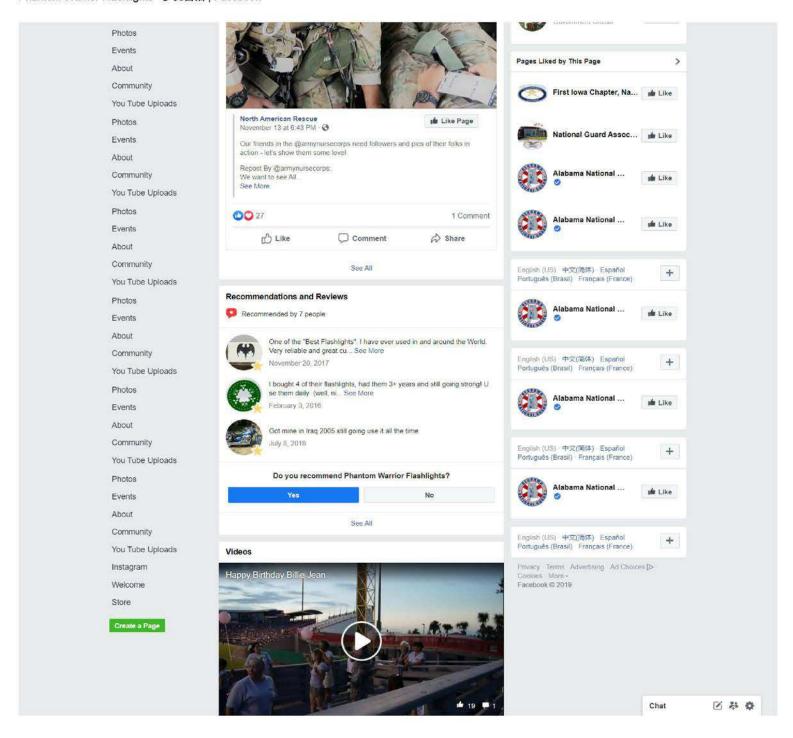
Grandpa jeep would be proud.

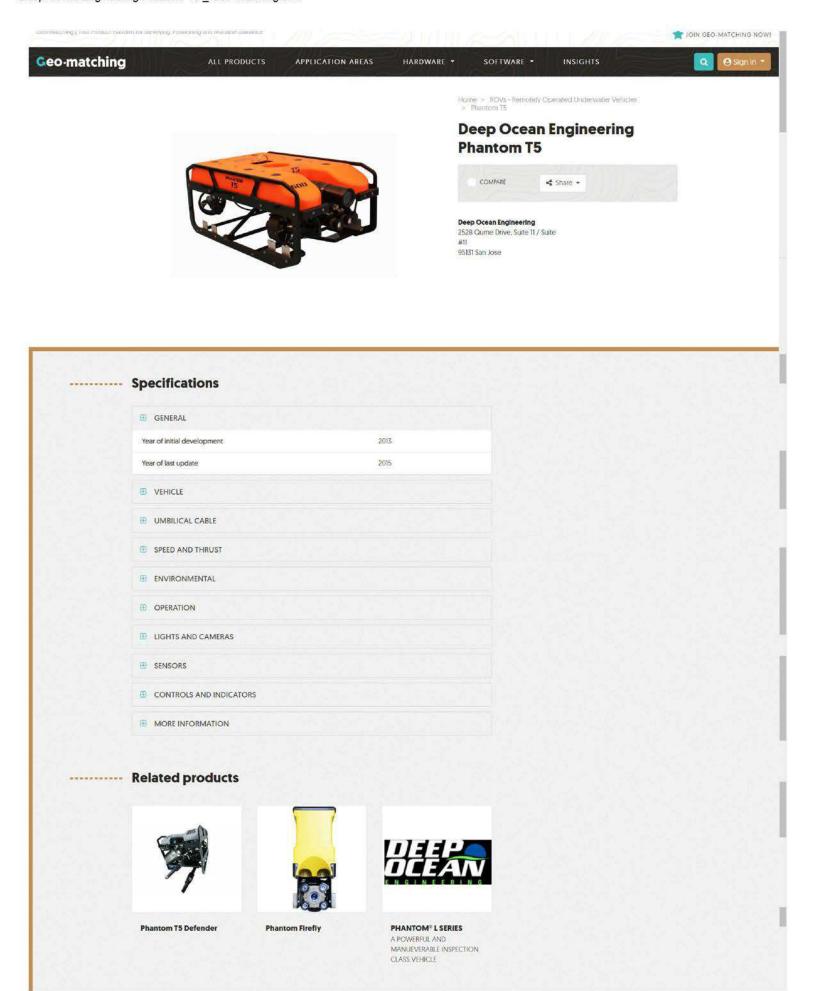
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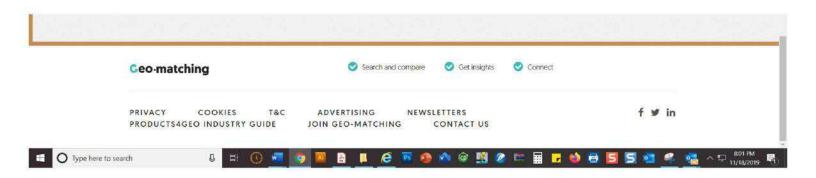












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Our Clients

There's nothing we are more proud of, than our clients.

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Service was great. Footage turned out perfectly, and was provided to me in multiple ways for my convenience. It helped my listings stand out from the rest. 5/5



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of the future.



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	Your Message (required)
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BELIEVE IN THE UNBELIEVABLE

WHO WE ARE

Phanton is an independent, digitally-lad creative agency headquartered in Landon, with a second studio PMQ based in Auckland. The very essence of Phanton is to shape shift to adapt and evolve, collaborating with brands that challenge and endicesly inspire us. We creat business transforming solutions that change the game and perform to extraordinary levels.

WHY WE EXIST

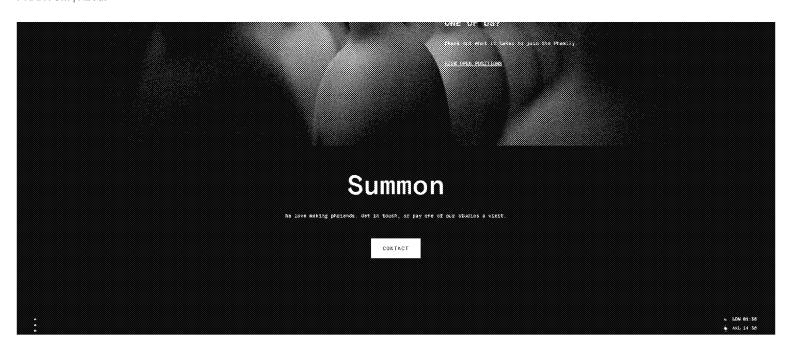
To pioneer experiences that transform the world. To challenge, shift and sdapt to be precisely what's needed. To combine the world's most talented forward thinkers. To smallfy the simplest borief and simplify the most complex. To enable us to do exactly what we love most.













Home Drones RC Toys Play Tents Musical Toys Play Sets Unique Gifts Gun Toys Doll Furniture Squishies

Home > Drones > Munchkin Land Sky Phantom King Drone Quadcopter - No Camera - Mixed Colours



Munchkin Land Sky Phantom King Drone Quadcopter - No Camera - Mixed Colours

Rs. 2,999.00 Rs. 3,999.00

Quantity		
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- This Quadcopter Drone has No Camera
- · Flying Range is less than 60 Metres
- · Weight is Less than 0.5 Kilograms
- · 6 Axis Gyro Quadcopter Drone













Manufacturer	Arcsolutions	
ManufacturerMinimumAge	168	
MPN	04-12-2017-5	
PackageDimensions	358 2146 172 1445	
PartNumber	04-12-2017-5	
ProductGroup	Тоу	
ProductTypeName	TOYS_AND_GAMES	
Publisher	Arcsolutions	
Size	Large	
Studio	Arcsolutions	
Title	Munchkin Land Sky Phantom King Drone Quadcopter - No Camera - Mixed Colours	

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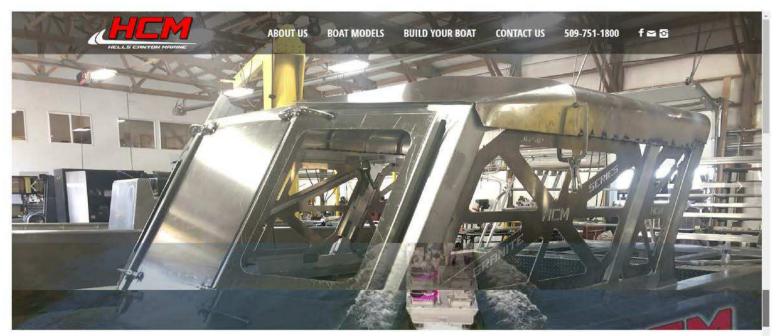
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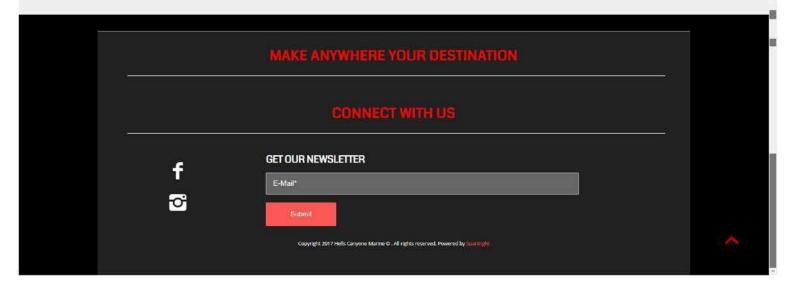






Heils Canyon Marine boats live up to their Hells Canyon name. Besides running rivers full of whitewater, HCM could also be the perfect choice for many other uses such as your hometown fishing spot, taking your family from beach to beach, or hauling gear to your favorite camping location.

When it comes to shallow water boating, Phantom is truly a pioneer. Phantom boats are designed to run some of the shallowest water any driver can find, even if it includes jumping over an island or two...





TECHNOLOGY

COMPUTER VISION SOLUTION

Computer Vision Solution for Each Level of Autonomous Vehicles

Phantom Al's computer vision technology provides fundamental building blocks for autonomous vehicles. Armed with a Deep learning based detection front end and geometry-based filtering back-ends, PhantomVisionTM can provide not only automotive reliable but also customizable and extensible vision solutions to Tier 1s and OEMs.

	Field of View	Application (Autonomous Vehicle Level)
Single-Camera Solution	45*	Level 1
Triple-Camera Solution	140"	Level 2
Six-Camera Solution	360*	Level 3 & 4



LEVEL 2 AUTONOMOUS VEHICLES

Phantom AI has developed a robust level 2 solution with automotive reliability designed in from the beginning. Starting with comprehensive system requirements, each fault-tolerant subsystem is constantly validated through the use of simulation and real-world

PhantomVision[™]: Deep-learning based computer vision solution

- US/Euro NCAP capable perception using three forward-facing cameras
 Support for vehicle, pedestrian, bicyclist, free-space, traffic sign and traffic light

PhantomFusion™: Modular sensor fusion solution

- Traffic environment recognition and prediction

 Camera and Radar based L2 solution, but configurable for a mixture of sensor

PhantomDrive™: Vehicle control solution

- Adaptive Cruise Control with cut-in vehicle handling Automatic Lane Keeping and Automatic Lane Change Automatic Emergency Braking : highway and city (pedestrians/bicyclists)





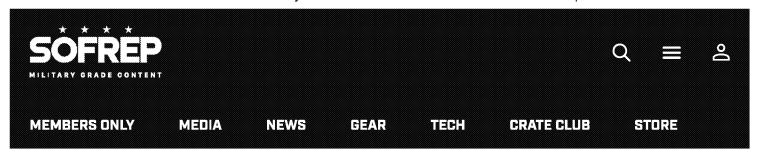
LEVEL 4 AUTONOMOUS VEHICLES

Phantom AI sees a future in mobility-as-a-service. By extending the features and capabilities already present in the Level 2 software stack, Phantom AI is developing an optimal platform and sensor suite for level 4 functionality.





Phantom Al © 2018

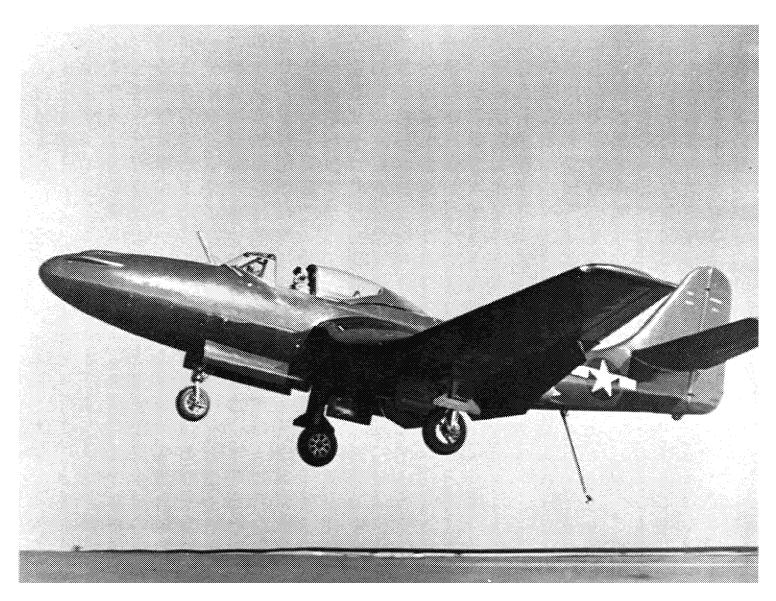


HISTORY

AVIATION HISTORY: MCDONNELL FH PHANTOM - FIRST CARRIER BASED JET AIRCRAFT

by FighterSweep Staff Dec 28, 2016

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On 21 July 1946, a prototype McDonnell FH Phantom became the first jet only powered aircraft to successfully takeoff and land from a US Navy aircraft carrier.

Operating from the Franklin D. Roosevelt off the shores of Norfolk, Virginia the FH Phantom flown by Lt.Cmdr. James Davidson completed four takeoffs and landings. The Roosevelt had a large enough flight deck that no catapult was required for the Phantom to become airborne via a traditional takeoff. The prototype jet crashed just one month after completing the first carrier operations.



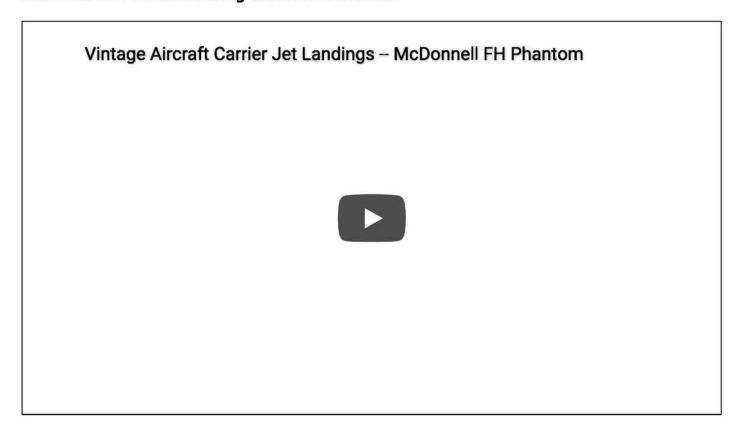
Photo by US Navy (U.S. Navy Naval Aviation News April 1947 [1]), via Wikimedia Commons

The jet aircraft had the following specifications;

- Wingspan: 40 feet 9 inches (wings could fold up to just 16 feet)
- Maximum Takeoff Weight: 12,035 pounds
- Engines: Two Westinghouse J30-WE-20 turbojets creating 1,600 pounds of thrust each
- Maximum speed: 417 knots
- · Cruise speed: 216 knots
- · Range: 604 nautical miles
- Ceiling: 41,100 ft
- Rate of climb: 4,230 feet per minute

The FH Phantom which was also the first jet put in service by the United States Marine Corps had four 50 caliber machine guns and could carry up to eight rockets.

Watch the FH Phantom landing on an aircraft carrier



Operating the FH Phantom from an aircraft carrier was a major milestone for the Navy and led the way in transforming Naval Aviation from piston based aircraft to the jet age.

While trendsetting, the FH Phantom was limited in operation capability not being able to carry bombs and with airspeed and rate of climb performance not much better than piston based aircraft. The FH Phantom never flew in combat.

Only 62 aircraft were built and the service life was relatively short being introduced in August 1947 and retired in 1949 by both the Navy and the Marine Corps. The aircraft did fly until 1954 in the Navy Reserves.

Featured Image of McDonnell FH Phantom by USN [Public domain], via Wikimedia Commons

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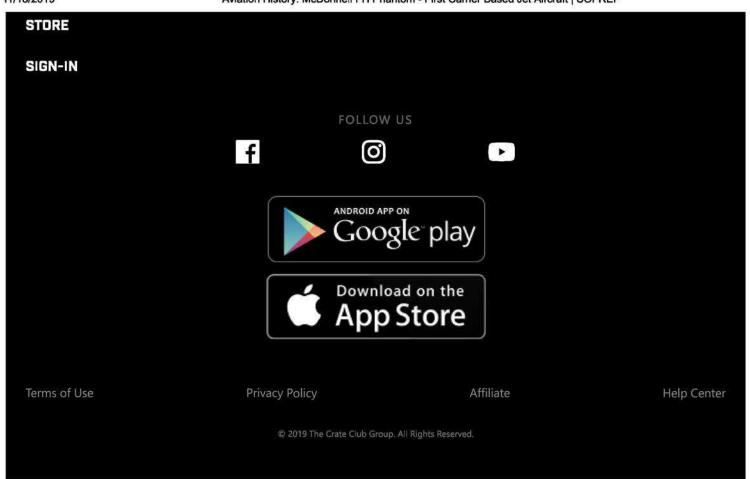
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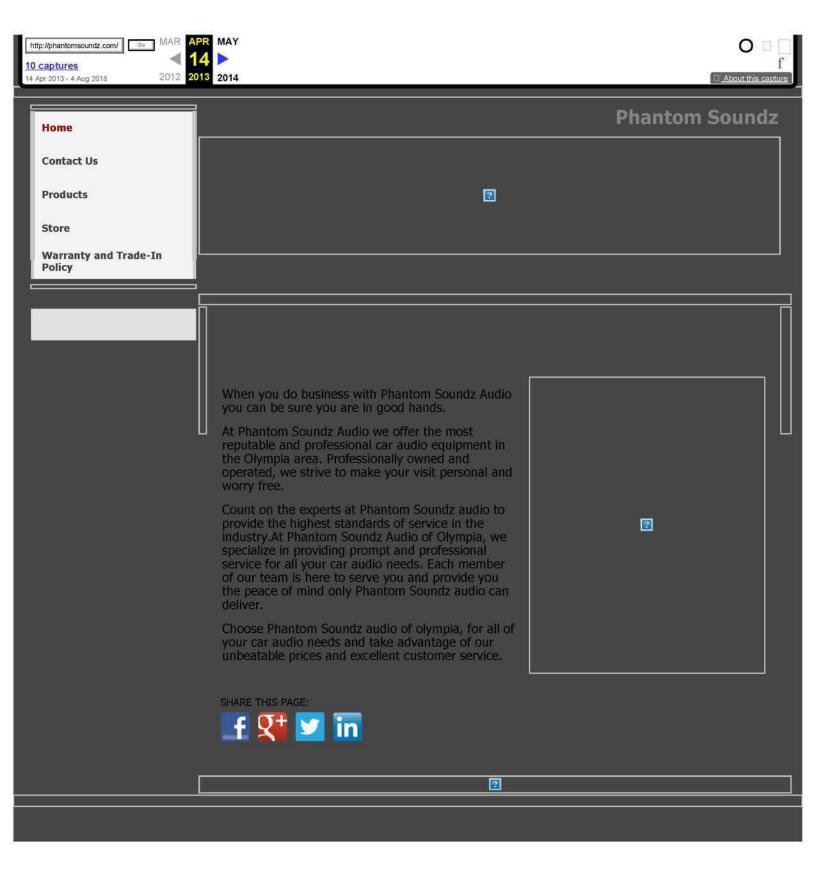
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Thrusters

1.5 hp Thrusters
4-Vectored Thrusters, 1-Vertical
(optional 2 vertical)
Foward Thrust: 73 kg (160 lbs)
Lateral Thrust: 30 kg (65 lbs)
Vertical Thrust: 16 kg (35lbs)
Magnetically Coupled
Brushless



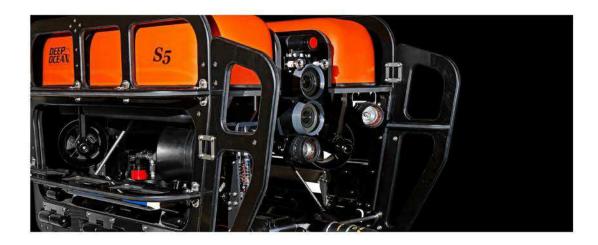
Weight & Size

Weight: 158kg (350lbs) Length: 1270mm (50.0 in) Width: 800mm (31.5 in) Height: 763mm (30.0 in)



Additional Info

For additional information, click here:



Interested in a custom underwater ROV?

Contact Deep Ocean Engineering, Inc. to learn what we can do for you.

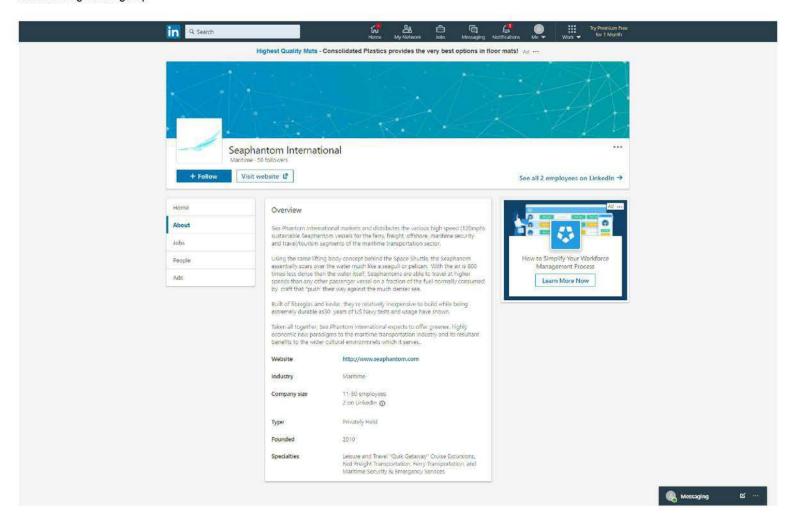
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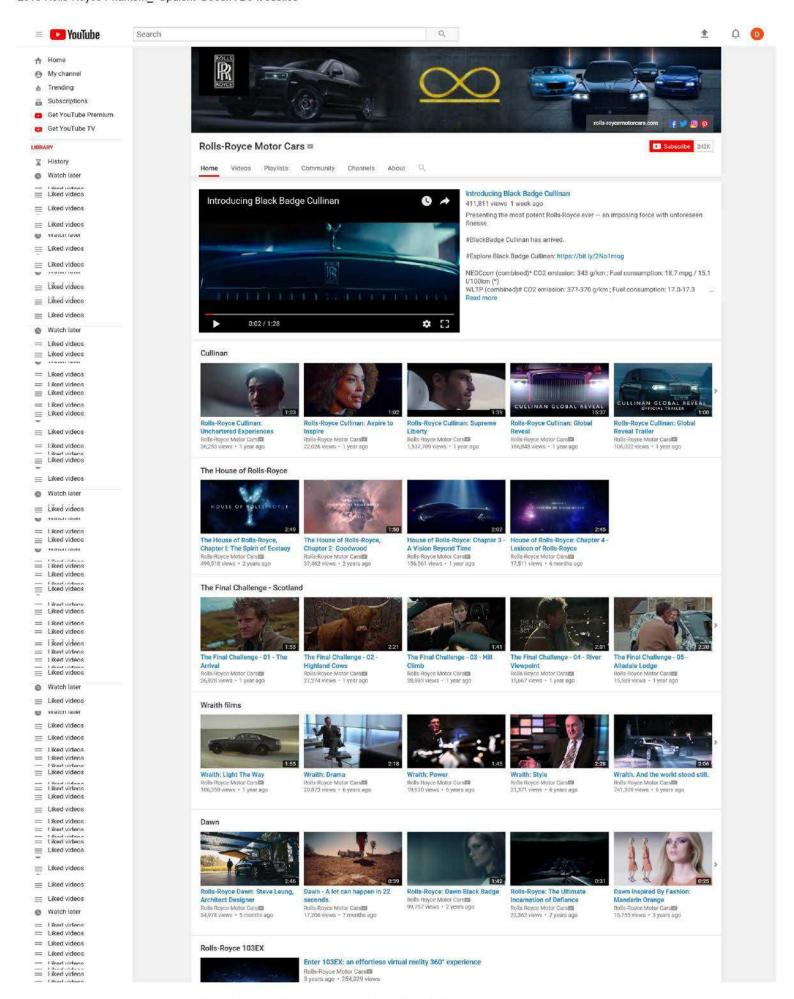
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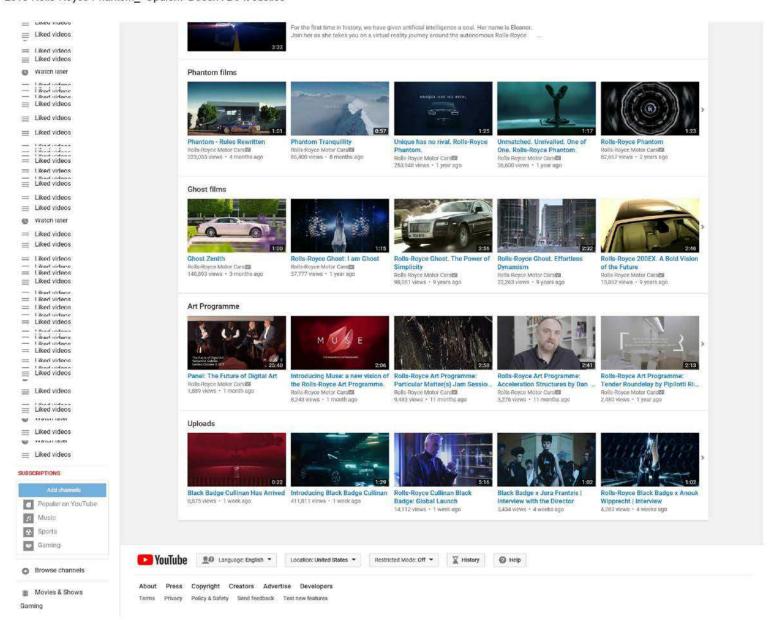
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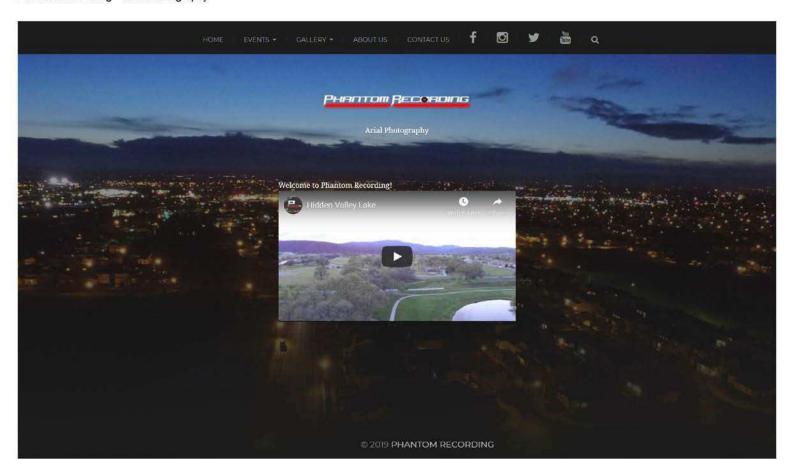


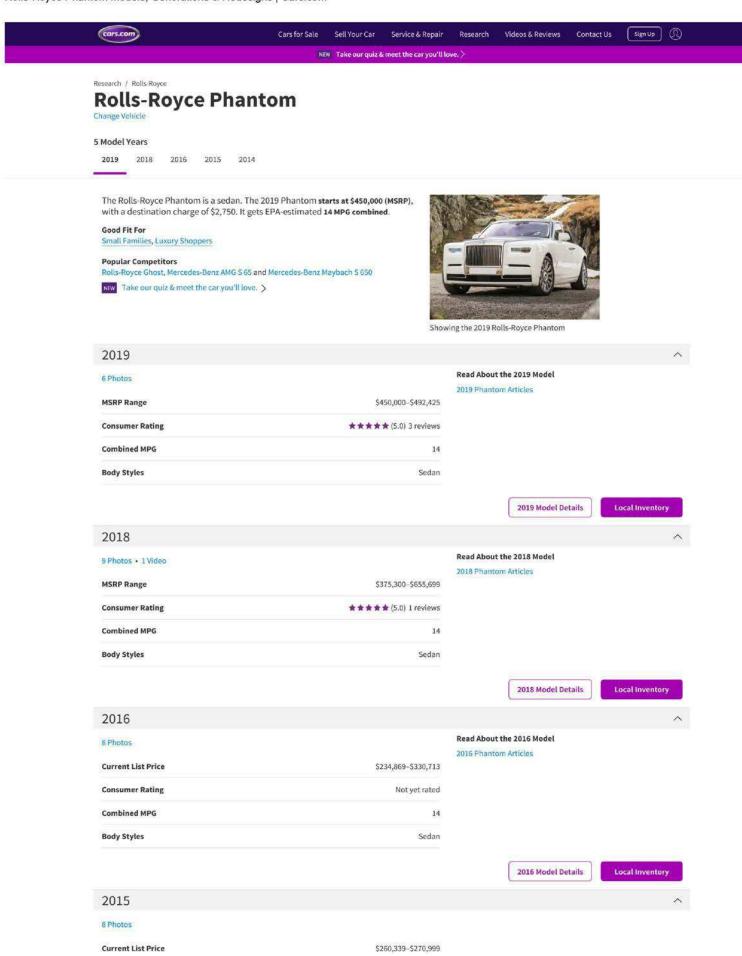
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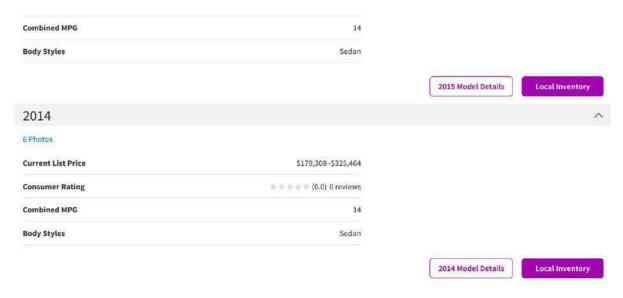






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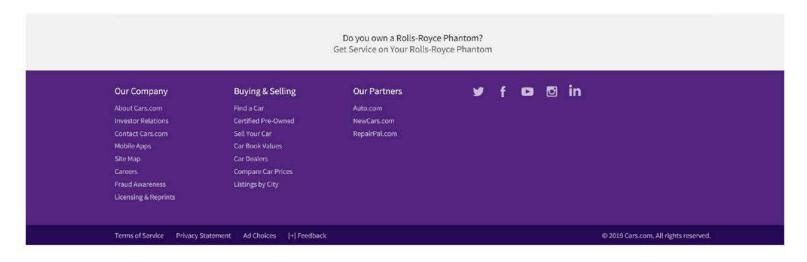
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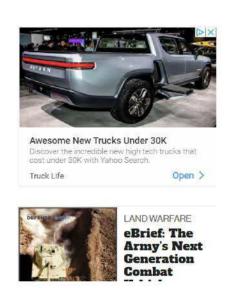


LAND WARFARE

Boeing's Phantom Works Tries Its Hand At Trucks

By SYDNEY J. FREEDBERG JR. on June 01, 2015 at 4:56 PM





The people that built the X-37 unmanned spaceplane and the X-51 Mach five missile now want to bring you an ultra-lightweight truck. Can brains this big think that small?

The beautifully named Phantom Badger vehicle looks a little out of place alongside other products of Boeing's famous Phantom Works division. In fact, Boeing itself looks a little out of place compared to the other competitors for the Army's Ultra-Light Combat Vehicle, which include scrappy startups like Vyper Adamas and mid-sized truck makers like Polaris.

Even General Dynamics, the other traditional defense contractor in the race, found a small-business partner whose existing Flyer vehicle is the basis for its ULCV entry. Boeing has a small-biz teammate as well, North Carolina's MSI, best known for its work with NASCAR and offroad racing. But Boeing came up with the design. In fact, the Badger was born when undisclosed elements of Special Operations Command specifically sought out Phantom Works to design a vehicle that could fit inside the V-22 - which (perhaps not coincidentally) Boeing helps build.

"Our customer came to us, our customer asked for this, [and] on our own dime we designed and built the first Phantom Badger according to our customer's specifications," said Kim McCamon, the retired Army colonel who heads the project for Boeing. While not a special operator herself, McCamon spent almost a decade doing logistics for Army Special Operations Command at Fort Bragg.



Boeing's Phantom Badger can fit inside a V-22 tilt rotor.

DEFENSE CARIEF

LAND WARFARE

eBrief: The "Knife Fighter" of Army Aviation

The Army seeks a next-generation armed scout helicopter with increased speed, range, survivability and even autonomy - not just a conventional helicopter.



From BARRY ROSENBERG

Now Boeing is exploring a Big Army competition, the Ultra-Light Combat Vehicle, which would equip not small special ops units but the 82nd Airborne Division and potentially



Vehicles



LAND WARFARE eBrief: The

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other light infantry units as well. I say "exploring" because Boeing was much more cautious than the other ULCV contenders I've talked to.

"We haven't made the determination that we're going to pursue the ULCV," McCamon told me. "It's going to depend on what the Army's requirements are and what the business case is for Boeing." The Phantom Badger participated in both a ULCV demo last year and an expeditionary warfare event this year at Fort Benning. And Boeing has responded to the Army's Request For Information (RFI) on ULCV - but until the formal Request For Proposals (RFP) comes out, the final requirements could change.



Boeing Phantom Badger

Phantom Badger will require some modification to meet one of the requirements that is already fixed: a "curb weight" of 4,500 pounds. (That's the vehicle without cargo or passengers, but a full tank of gas and generally ready to go). "It's close to 4,500," McCamon said. "We believe we can meet the requirement."

Despite its weight, the Badger is actually one of

the slimmest competitors. The Army only requires the ULCV to fit inside a CH-47 Chinook helicopter, but Badger was designed in the first place to fit in the much tighter quarters of a V-22 Osprey tiltrotor. The price paid to fit on the V-22, however, is a much narrower vehicle: a maximum of 60 inches wide. (By contrast, General Dynamics's ULCV offering is the Flyer-72, a foot wider). Does that long, thin body increase the risk of rollover?

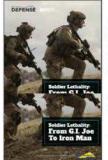
"We realize that could be a challenge with the narrow body, [but] there's some intellectual property on our vehicle that allows us to be more stable," McCamon said. (She wouldn't disclose the proprietary secret sauce for stability). "We are able to take a significant side slope without rollover" - again, exact figures are proprietary - "and if it does roll over, we're certified at 150 percent of the vehicle weight, so all the passengers would be protected." To prove that performance, besides the specific demonstrations for the Army, the Badger's done 5,000 miles at the Nevada Automotive Test Center.

The vehicle's shock absorbers — vital to cross-country performance — are a proprietary design by Boeing's partner MSI. Other than that, however, "all of our major components are commercial off-the-shelf items," McCamon told me. That's an Army objective for ULCV and something that dramatically simplifies maintenance, the former logistician emphasized: If something breaks on a Badger, she said, "they can go to AutoZone or Pep Boys or any auto store and pick up a part."



Sustainment





LAND WARFARE

New eBrief: Soldier Lethality: From G.I. Joe To Iron Man

From G.I. Joe To Iron Man

The American Soldier is

evolving from low-tech grunt to high-tech warrior. For decades, the infantry have gotten the least investment in new equipment. Now that's changing.

Underwritten by Elbit Systems

From SYDNEY J. FREEDBERG JR.



Recommended

Reassess The PCS: Stop Moving Soldiers Every 2 Years

Moving often comes at a cost to the Army, causing soldiers and their families instability and uncertainty.

By JASON GRESH

That's very different from a space plane — but sometimes simplicity is the best kind of sophistication.

Topics: army, Boeing, MSI, NASCAR, Phantom Badger, Phantom Works, Special operations, tactical vehicles, trucks, ULCV, Ultra-Light Combat Vehicle, V-22, wheeled vehicles

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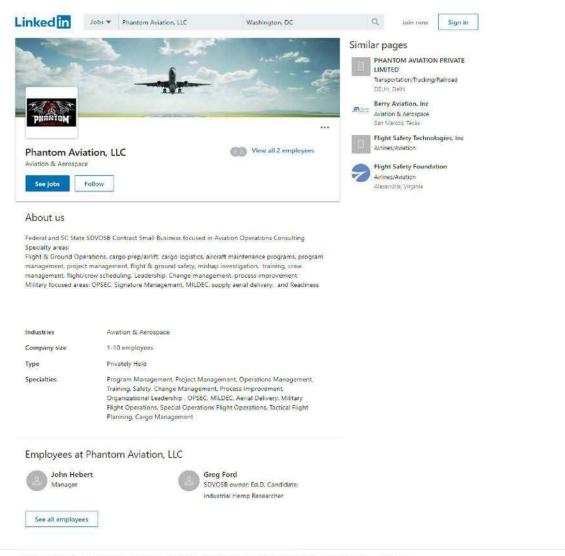
Multi Domain Drives NATO Industry To Graft New Air Power Interoperability



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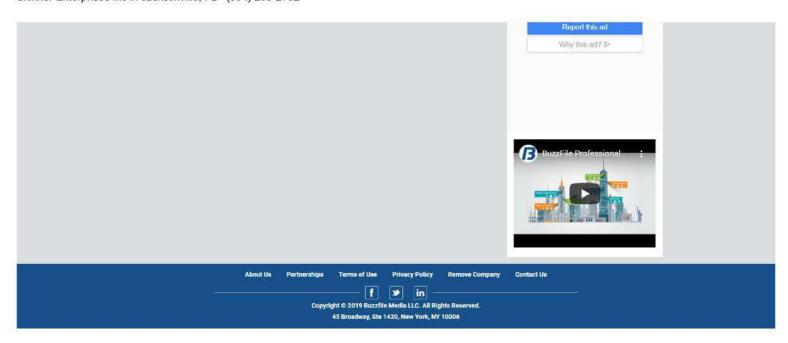


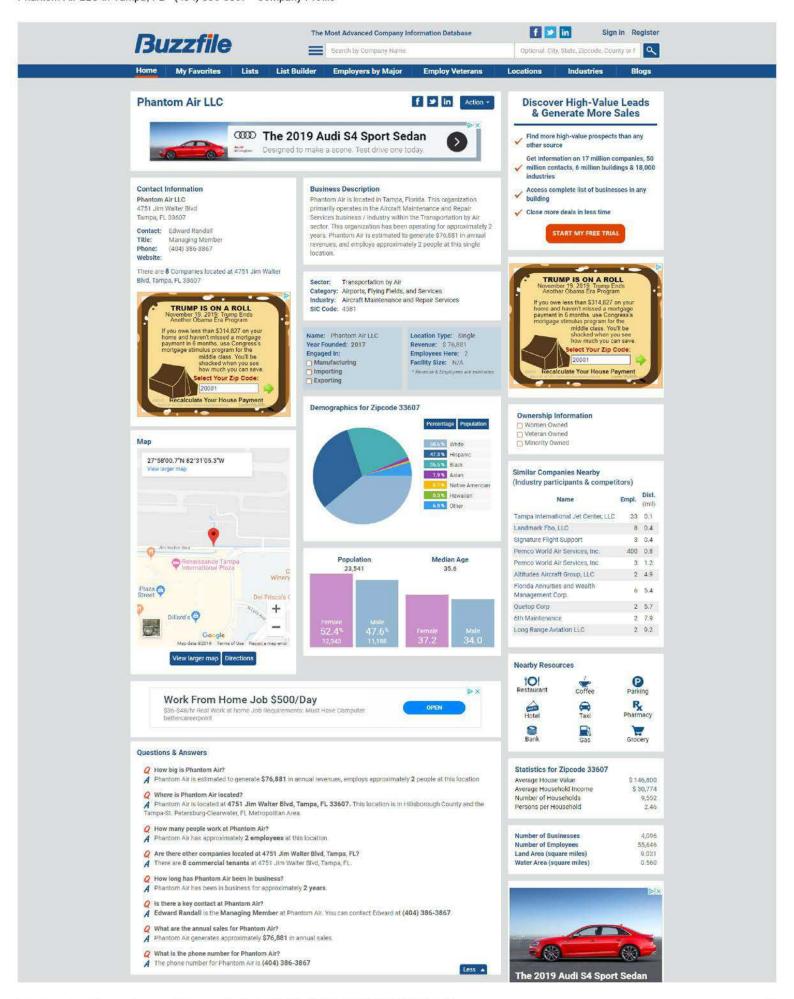




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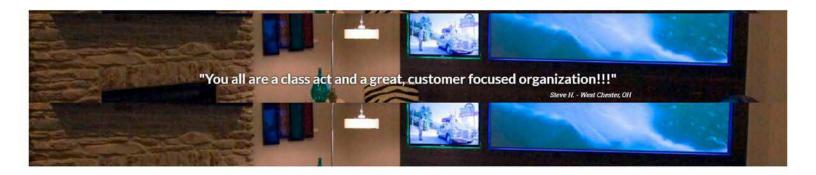
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Introducing the Movie Master 3.0 Sound and Screen Theater system, available exclusively from Phantom Sound, and a great addition to the MM 2.0. Form meets function, as we work towards giving you as close to a true movie theater experience as possible, with sound coming FROM the screen, not around it.



OUTDOOR

High quality, weather resistant speakers made to do what we do best, only outside Combine great sound, with a stealthy appearance. No small, table top unit here. Real sound, for real entertaining.



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ABOUT US

Phantom Sound was founded in 1988 with the goal of providing music throughout the home. We led the way and have sparked many of the whole house audio solutions available in the industry today.

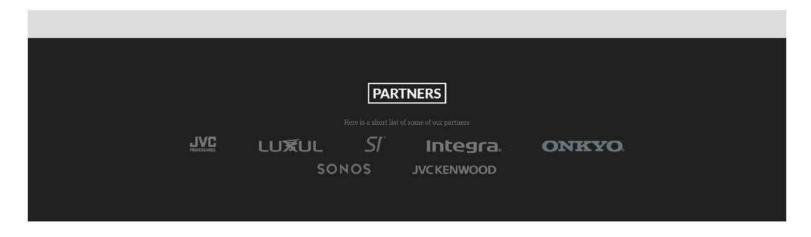
As Phantom Sound and Theater we will continue that tradition of innovation, knowledgeable and friendly service and outstanding audio / video performance.

Over our 27 years, we have had fun getting to know our clients who have become loyal fans, by helping them enjoy music and movies inside and outside their homes. It is with gratitude we have enjoyed serving them in the Cincinnati area, all around the country and even some international locations!

We install innovative gear from great companies and with our ingenuity we have developed and patented our own Phantom Sound products that are exceeding the desires of our customers and dealers. Quality, appearance and ease of operation ensure that we deliver a system that brings music and movies to life

We hope you will ask questions and consider us for you upcoming project





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Send Us a Message Phantom Sound & Theater Name ℃ P: (513) 759-4477 Your Name * ☑ E info@phantomsound.com Email 104 Reading Rd Mason, OH, 45040 Your Email * 104 Reading Rd 104 Reading Rd, Mason, OH 45040 Phone View larger map Your Phone W.Church St Yost Pharmacy 0 Message Your Message * Mason Public Library Peoples First Mason Vision Center Domino's Pizza Q + Shorten and Ryan O Map data \$2019. Terms of Use. Report a map en SEND MESSAGE

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Deep Ocean Engineering Phantom 500XTL-380 ROV showing a camera, lasers, light, and compass mounted to the front of the vehicle.

Source publication



Benefits of Using Remotely Operated Vehicles to Inspect USACE Navigation Structures

Article Full-text available

Mar 2007

🙃 James H. Lever · 🗟 Gary E. Phetteplace · 🌄 Jason Weale

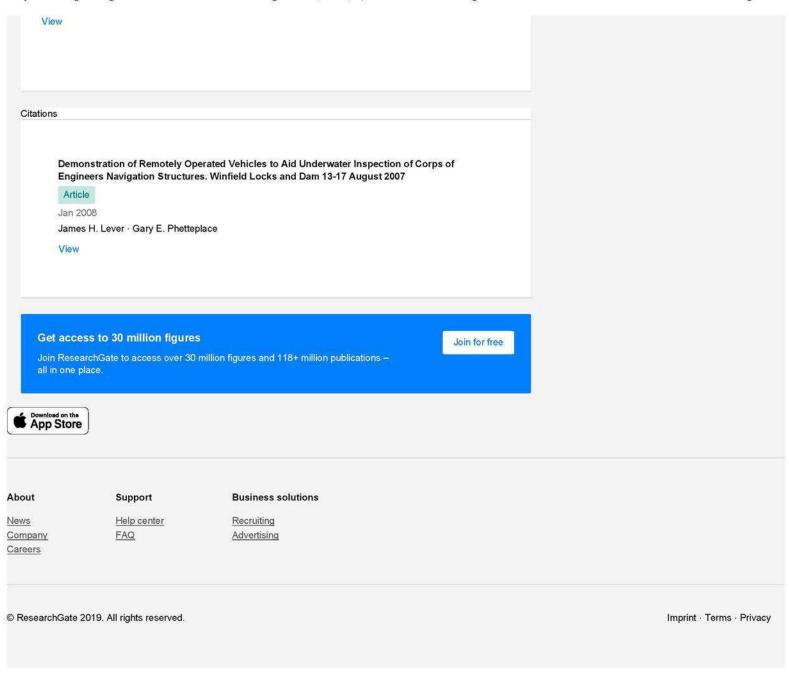
The U.S. Army Corps of Engineers operates numerous navigation locks and dams across the country. Age and lack of funds to maintain these structures has led to significant increases in unscheduled outages. Dewatering provides the best inspection opportunity but is costly and halts navigation traffic. Diver inspections are costly, and safety is an is...

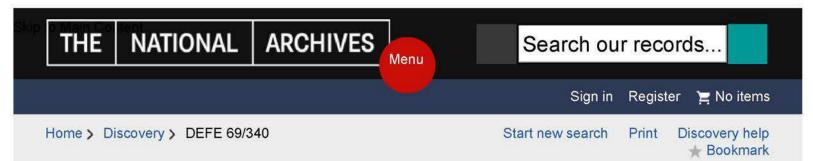
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Context in source publication

Context 1

... Soo Area Field Office owns an ROV built by Deep Ocean Engineering, a Phantom 500XTL-380 purchased in 1996 (Fig. 2) The ROV is used entirely for visual inspections. Visibility at the Soo Locks exceeds 30 ft in sunlight and about 10 ft under ROV lighting. No exact records are available, but the operating team estimates that they deploy the ROV 6-12 times per year, most recently to inspect piers (for erosion damage), miter-gate sills (for debris), ...





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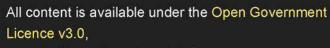


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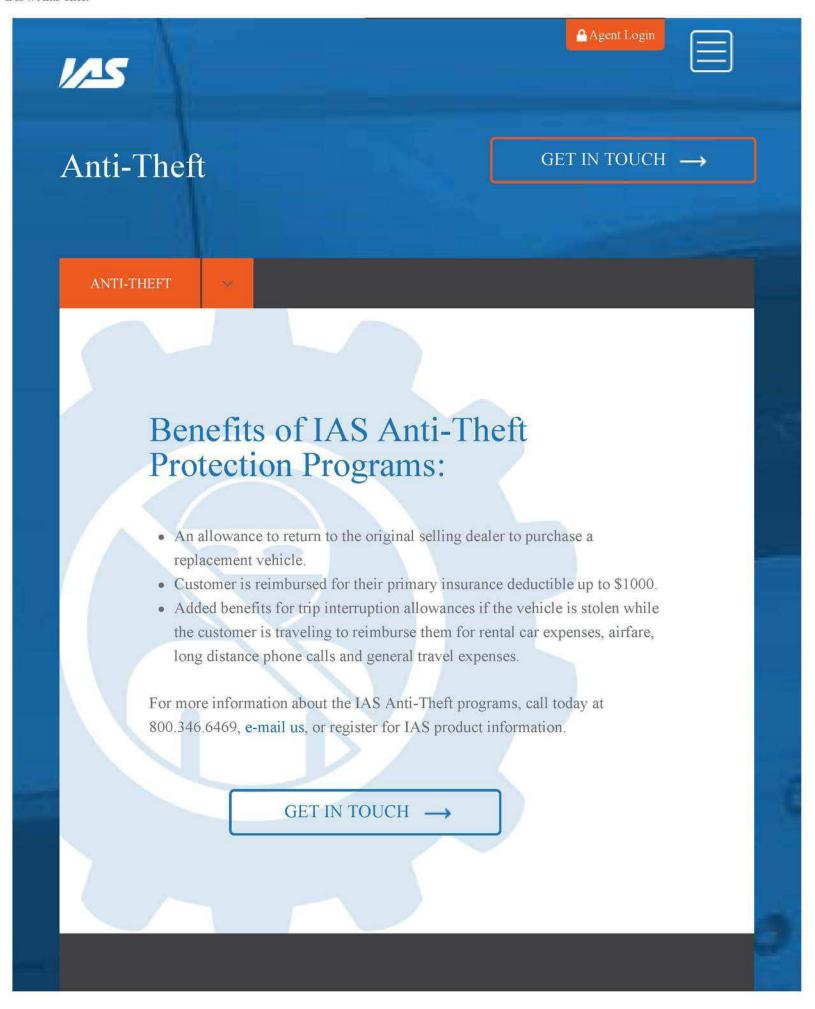




except where otherwise stated



Version 6.0 - October 2019 - OffSite





Invisible Phantom Footprints

Exclusively designed by 3M for IAS, Invisible Phantom Footprints protects vehicles on six different areas with permanent, tamper-resistant labels. These labels are impossible to remove intact. When an attempt is made to remove one, a phantom image of the unique registered vehicle code number is left on the vehicle. This phantom image can be seen only under UV light.

Theft Avert

The Theft Avert vehicle marking system is a unique window etch product. This is yet another effective anti-theft program that gives customers a preferred security system that helps to identify vehicles if they have been stolen. Customers who buy Theft Avert receive thousands in benefits if the vehicle is stolen and may also qualify for a comprehensive insurance discount.

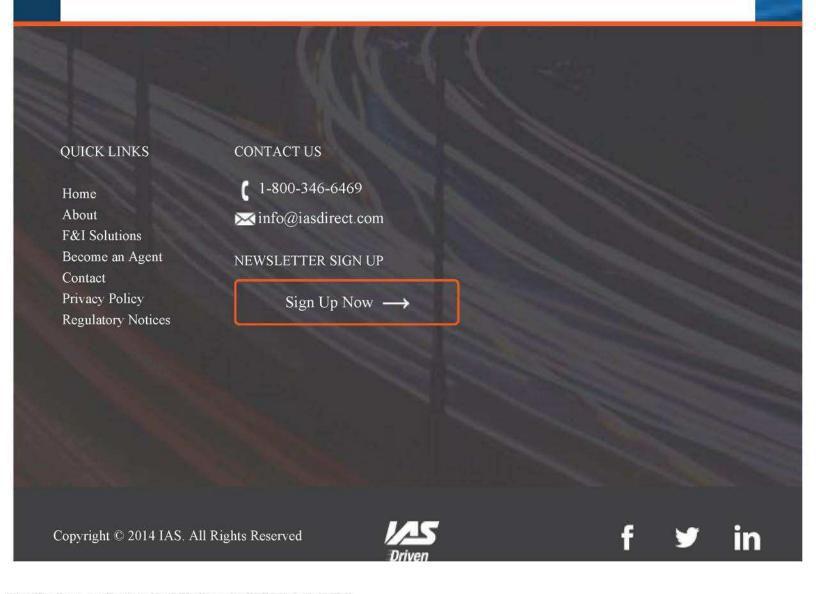
Data Dots

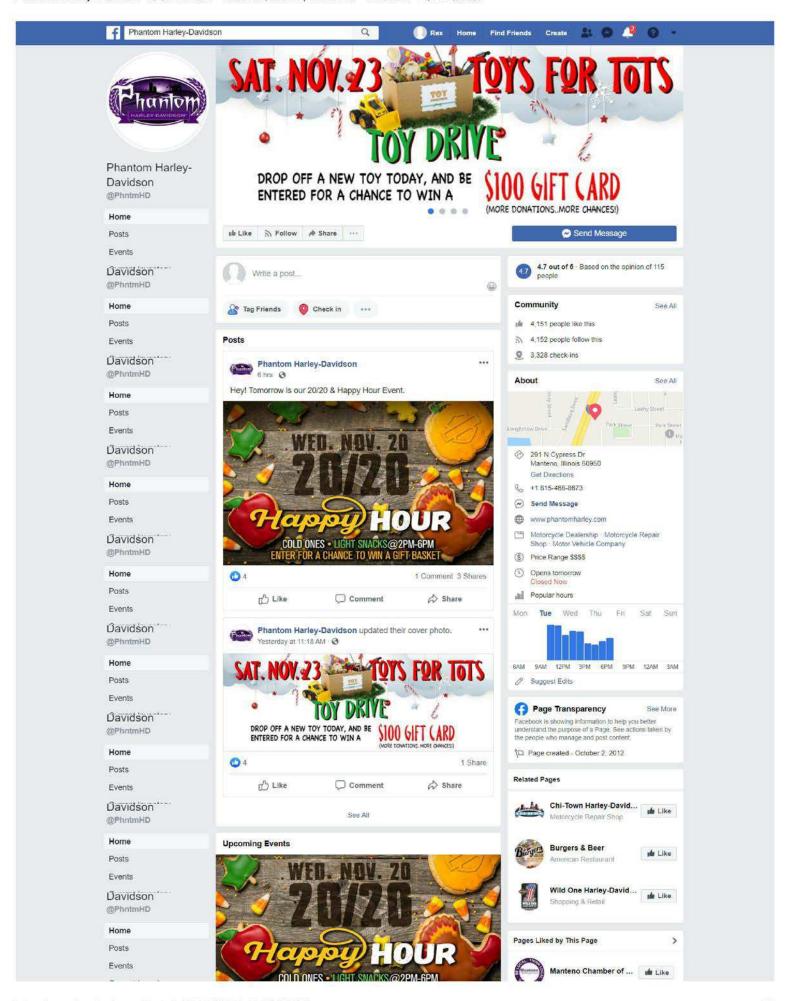
Data Dots are state-of-the-art identification technology which allows vehicles to be effectively marked with its own DNA. Each the size of a grain of sand, Data Dots are laser etched with a unique microscopic identification code and registered onto Data Dot USA's secure national database. The dots are applied using an adhesive and once applied are able to withstand solvents, road salts and heat.

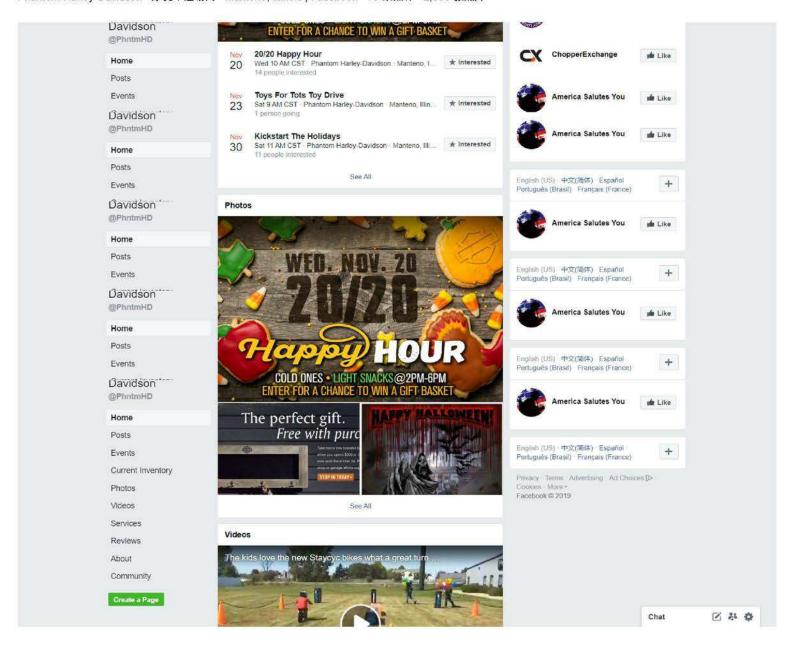
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LTE Enhancements and Future Radio Access

Takehiro Nakamura NTT DOCOMO, INC.

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FRA concept



Support for traffic explosion

Beyond 500x in 10 years

Massive device connectivity

Reduced control signaling, More simultaneous pipes QoE for various applications

Gbps-experience data rate, Reduced latency, Battery saving

Intelligent network with low cost & high robustness

Support of diverse environments (small cells & higher frequency bands), Energy saving

Future Radio Access (FRA) will provide a total solution to satisfy the requirements by future drivers

Future

Radio

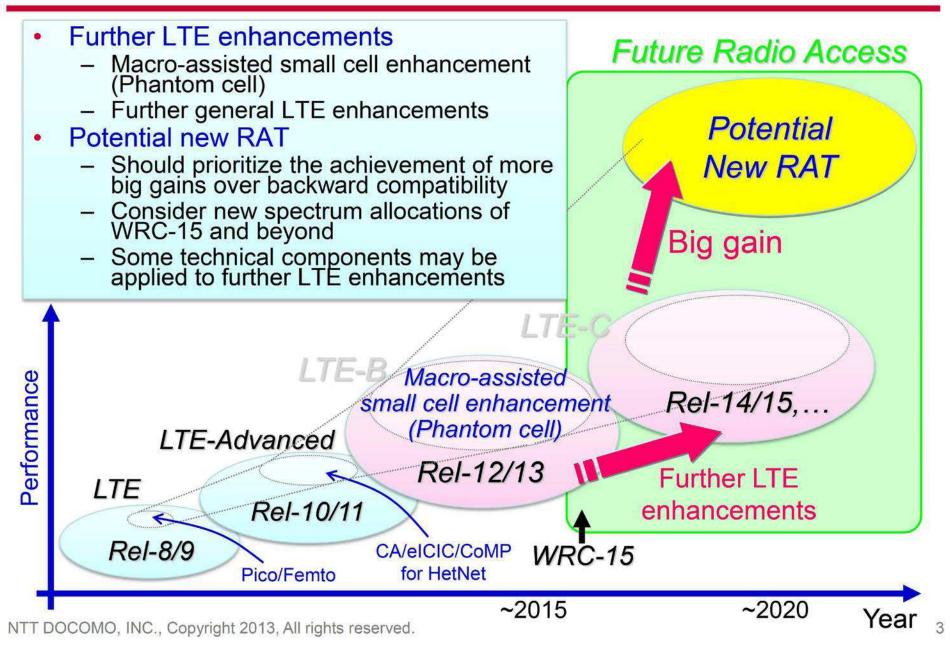
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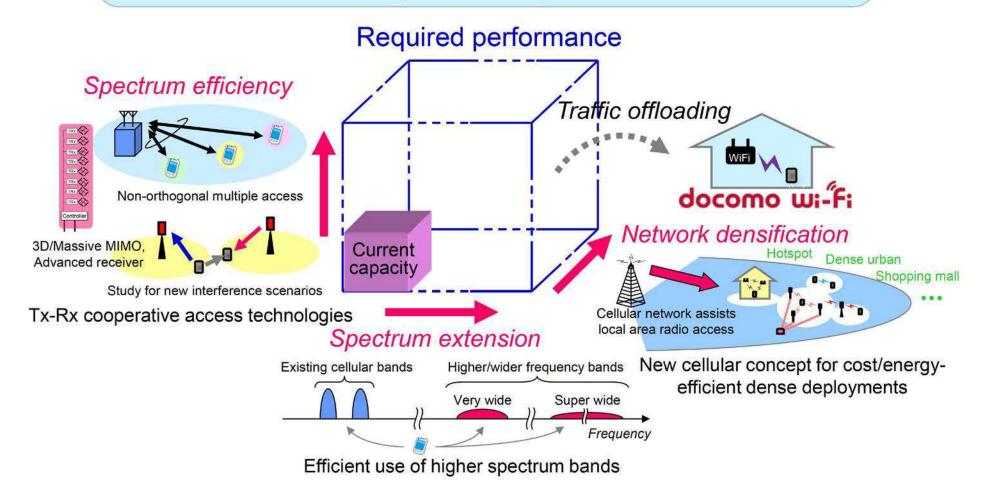
Evolution paths for FRA





Directions of evolution: "The Cube" docomo

A set of radio access technologies is required to satisfy future requirements

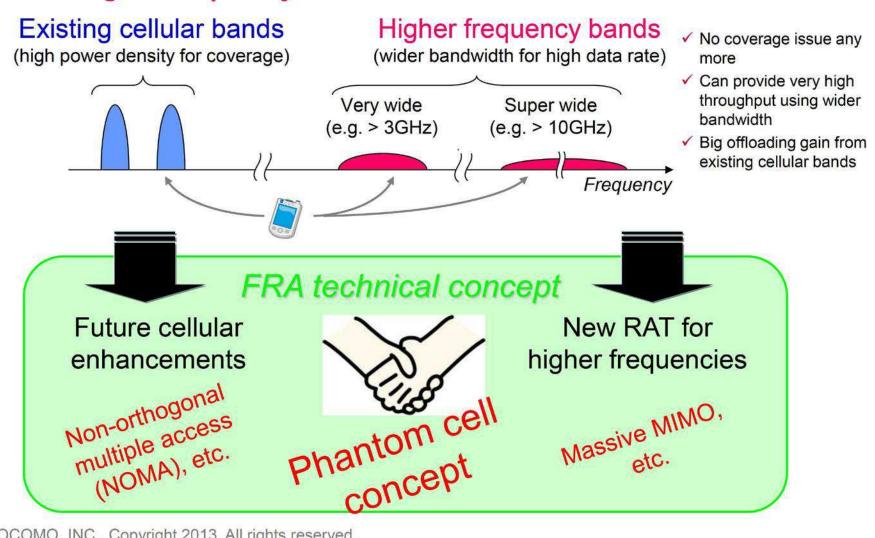


FRA technical concept



Combined usage of lower and higher frequency bands

→ Higher frequency bands become useful and beneficial!



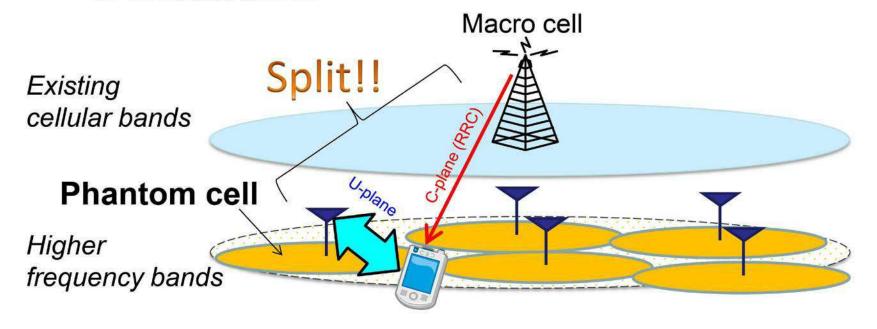
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Phantom cell concept



- Proposed macro-assisted small cell "Phantom cell"
 - Split of C-plane and U-plane between macro & small cells in different bands



C-plane: Macro cell maintains good connectivity and mobility using lower frequency bands

(RRC: Radio Resource Control)

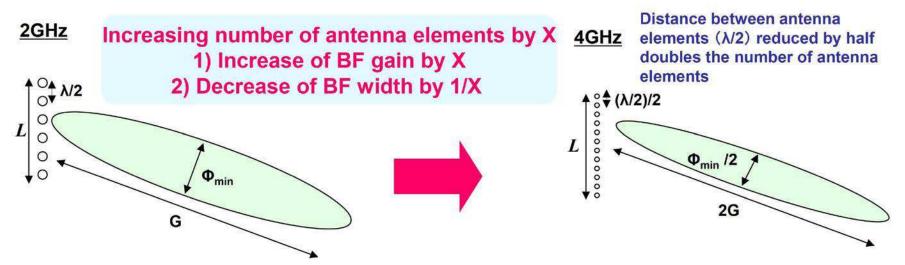
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U-plane: Small cell provides higher throughput and more flexible/costenergy efficient operations using higher/wider frequency bands

Massive MIMO – BF gain

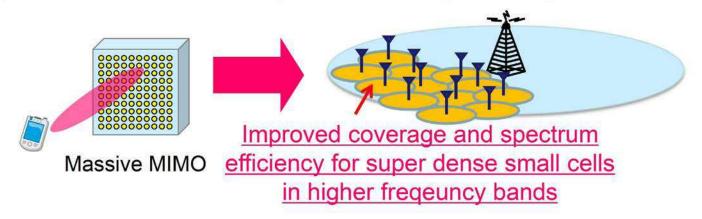


Beamforming (BF) gain with massive antenna elements



Massive MIMO in higher frequency bands

→ Compensation of increased path loss & Improved spectrum efficiency



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Non-orthogonal multiple access (NOMA) 10

- More efficient multiple access scheme
 - Non-Orthogonal Multiple Access (NOMA)

More details on NOMA concept and initial results are presented in this WS.

	W-CDMA	LTE	FRA
Radio resource allocation	Non-orthogonal (CDMA)	Orthogonal (OFDMA)	Orthogonal (OFDMA) + Superposition/Cancellation (NOMA)
Link adaptation	Fast TPC (TPC: Transmission Power Control)	AMC (AMC: Adaptive Modulation & Coding)	MUPA/AMC (MUPA: Multi-User Power Allocation)
Multiple access image	Non-orthogonal assisted by power control	Orthogonal between users	Superposition & interference cancellation

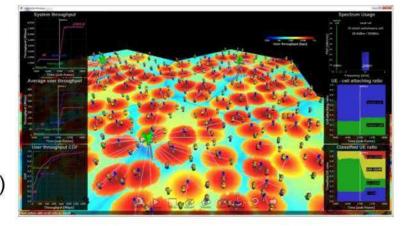
- Why NOMA? Multiple access using interference cancellation itself is very old technology (for uplink in particular)
 - Evolution of device processing capabilities for interference cancellation
 - Moore's law: 100x processing power after 10 years
 - In OFDMA, frequency-domain signal processing becomes possible
 - Exploitation of path loss difference among users
 - Multi-path fading was exploited by OFDMA, but path loss still needs to be further exploited



FRA Real-time Simulator



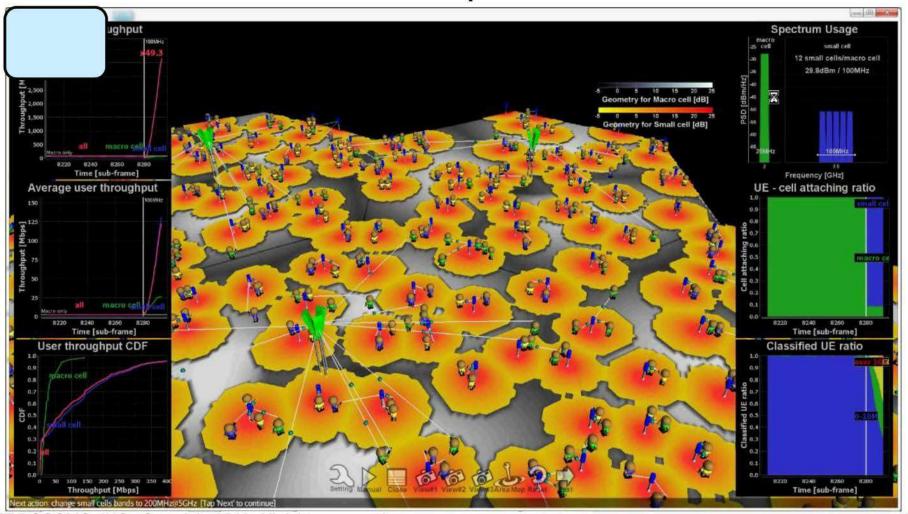
- The potential performance gains of applying key FRA technologies are demonstrated using FRA real-time simulator.
- Demo Scenario
 - Spectrum extension x NW densification
 - Efficient exploitation of higher frequency bands using small cells
 - Key technology for small cells
 - Massive MIMO
 - Key technology for macro cells
 - Non-orthogonal Multiple Access (NOMA)



FRA Real-time Simulator Cell Configurations



3 cells per macro site12 small cells per sector



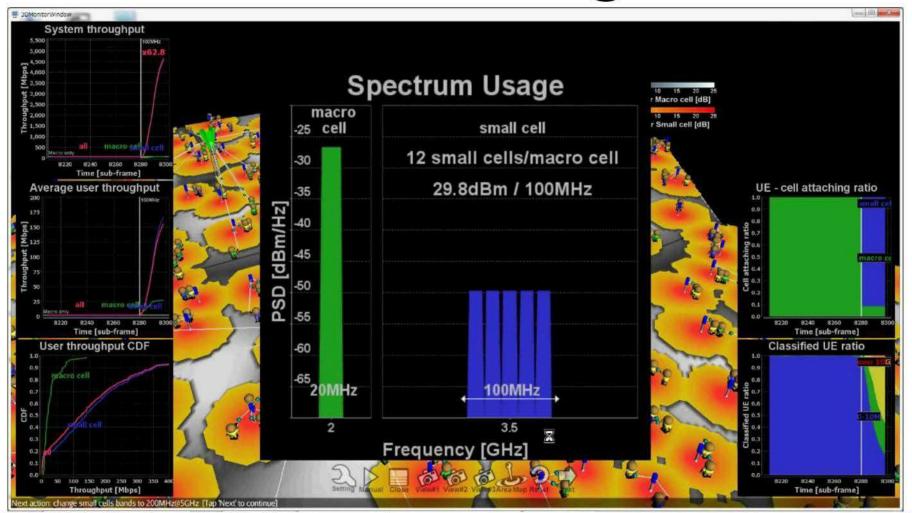
FRA Real-time Simulator

Spectrum Allocations



Macro cell: 20 MHz BW @ 2 GHz

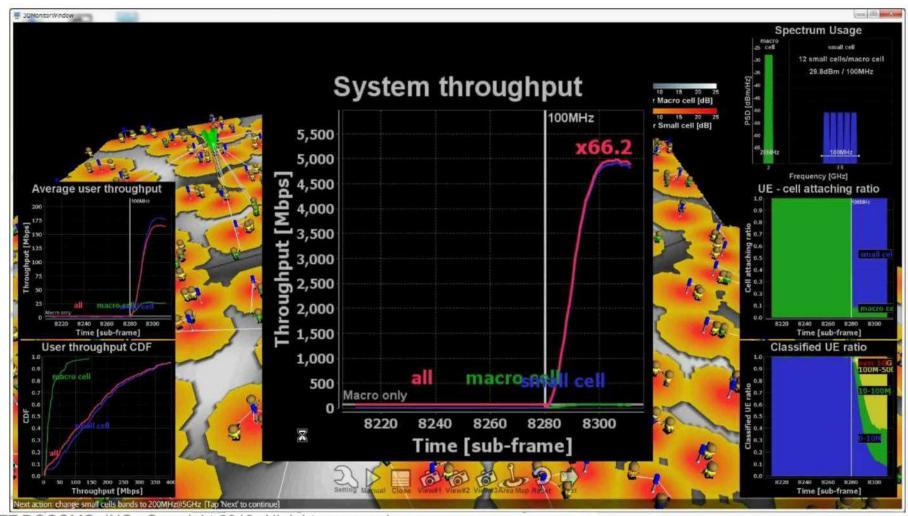
Small cell: 100 MHz BW @ 3.5 GHz



FRA Real-time Simulator System Thoughut Gain



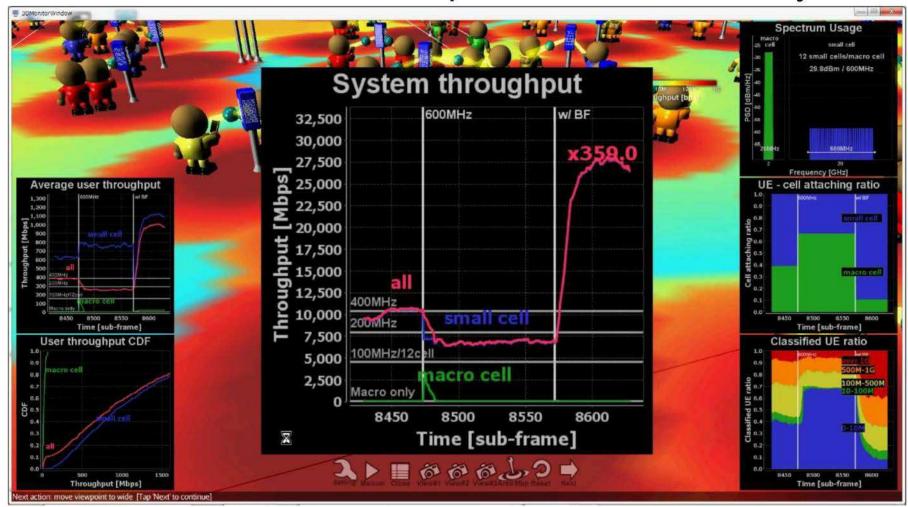
More than x60 gain compared with macro only



FRA Real-time Simulator Gain by Massive MIMO



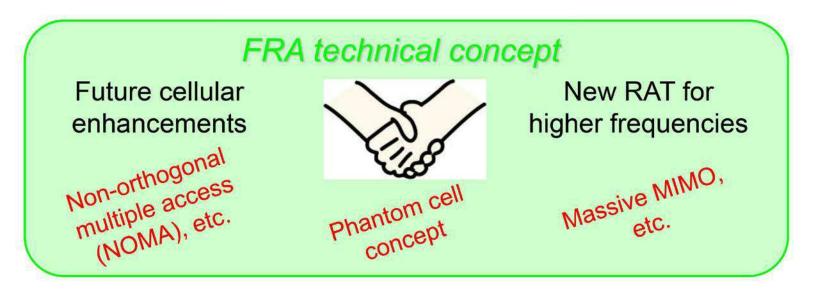
More than x350 gain with 600 MHz BW@20 GHz and Massive MIMO compared with macro only



Summary



- We presented our views on requirements and potential key techologies for Future Radio Access (FRA):
 - Macro-assisted small cell, i.e., Phantom cell, and Massive MIMO are promising approaches for higher/wider frequency bands towards the long-term future
 - Non-orthogonal multiple access (NOMA) is a promising technology for future cellular enhancements

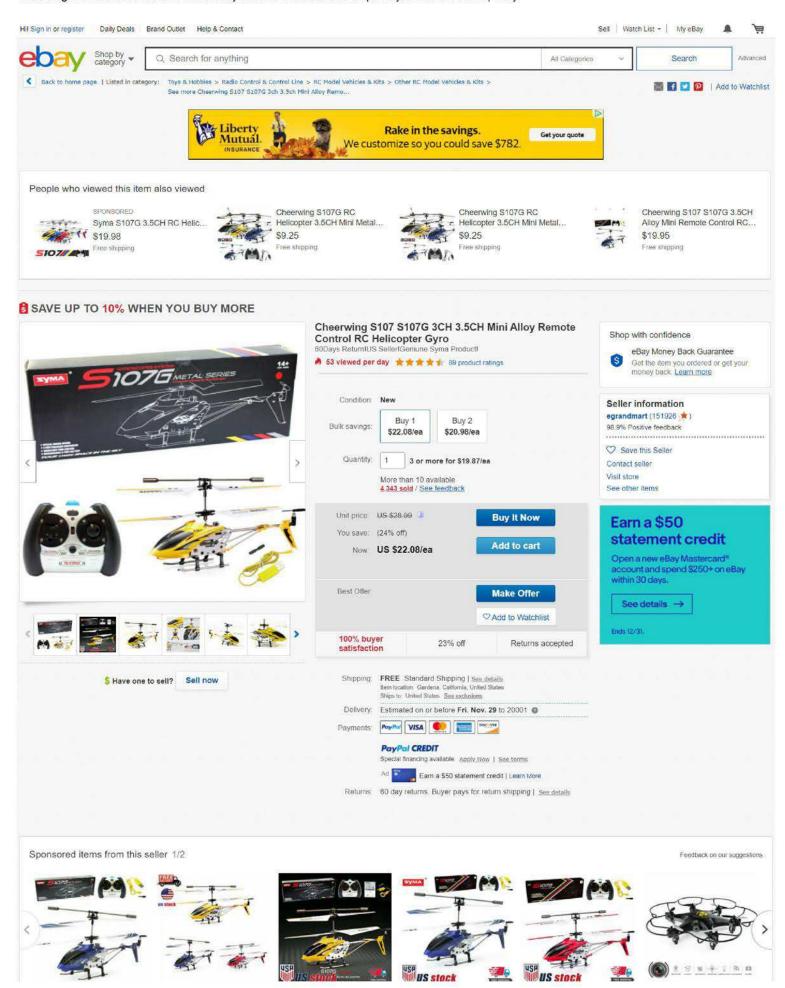


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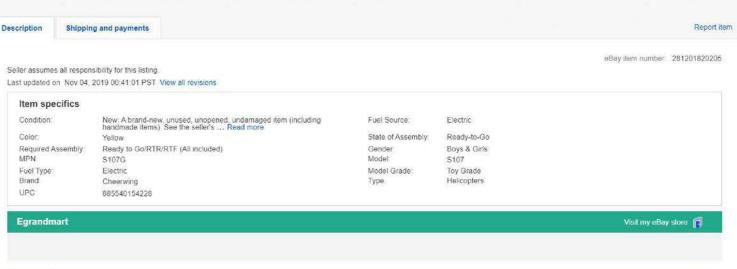
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Cheerwing \$107 \$107G JCN 3.5CN Mini Alloy Remote Control RC Helicopter Gyro









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Description

This Brand New 3 Channel mini rc helicopter is the world's newest, most durable and stable helicopter. The item comes with the latest gyro system for precision control. The metal frame has proven to withstand dozens of crashes. The mini helicopter charges directly from the controller which uses "AA" batteries and has a full-function trim control for the perfect flight. Get one today before they all fly away!

- · 2 Selectable Frequencies Let's You Fly Up To 2 Helicopters At Once
- · Upgraded metal frame for durability
- Upgrade gyro system for precise control
 3-channel, Infrared Control (Allows for Forwar/Backward, Left/Right, Up/Down movements)
- · Auto Stable & Precision Speed
- Miniature Size & Light Weight
- Small Size Provides Agility and Speed
 Made of a Unique Material to Withstand Crashes
- · Super Wide Infrared Control
- · Easy to fly
- Complete Kit, Ready to Fly
 Color: Red / Yellow / Blue (We will ship the random color depending on the stock.)

Specifications:

- Main Rotor Diameter (Lower): 190mm
 Tail Rotor Diameter: 30mm
- Fuselage Length: 220mm
- Fuselage Height: 98mm
- Fuselage Width: 38mm
 Power System: 180 motor*2
- · Flight Duration: 5-6 Minutes
- Helicopter Battery: 3.7V 180mah Lithium-Polymer (Li-Poly) Battery
- Operating Temperature: 10-45°C
 Transmitter Battery: 6 x 1.5v AA Alkaline Batteries (not included)
- · Charger: Integral Transmitter/Charger supplied with LED indicator/Auto shut off
- · Charge time: 20-25 minutes for full charge

Package Includes:

- 1 x Cheerwing S107 Mini Helicopter
- 1 x Controller
- Lx USB Charging Cable 1 x Tail Propeller 1 x Instruction Manual

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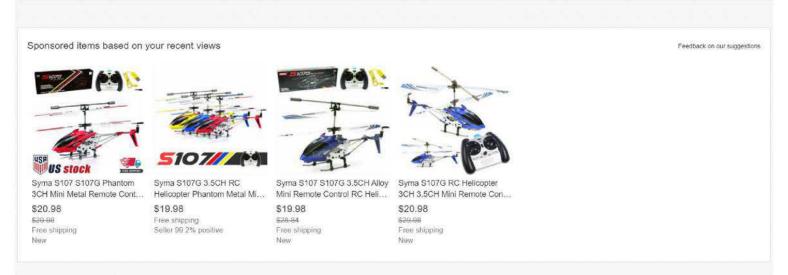
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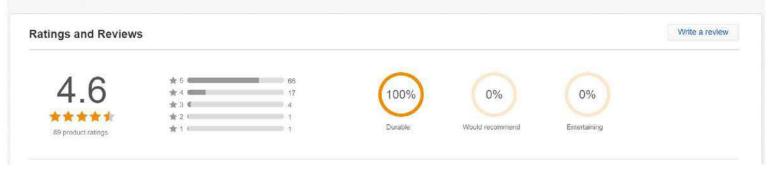
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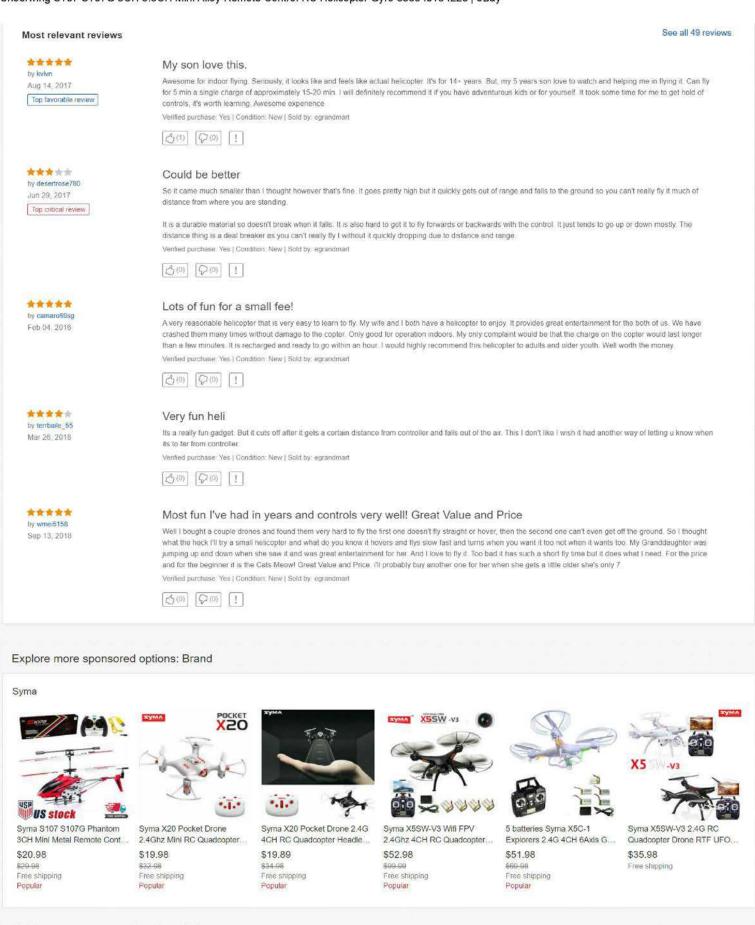
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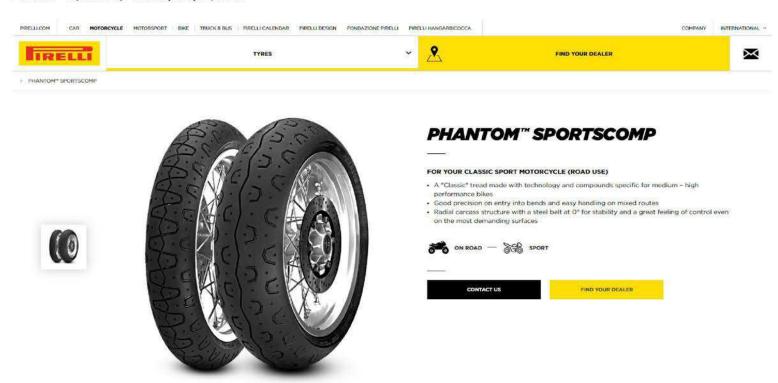
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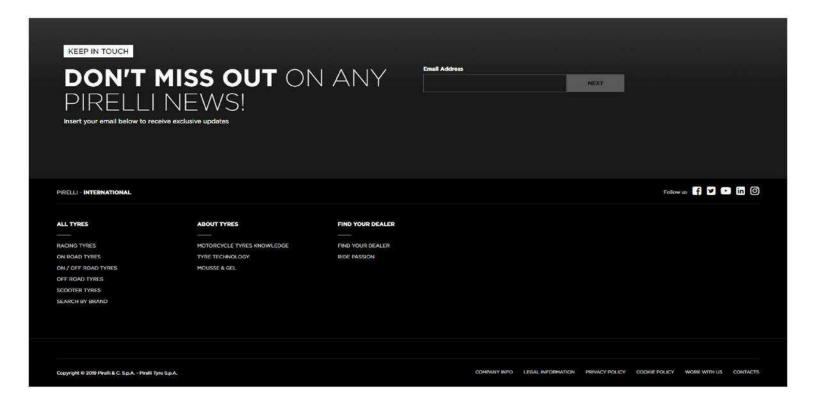
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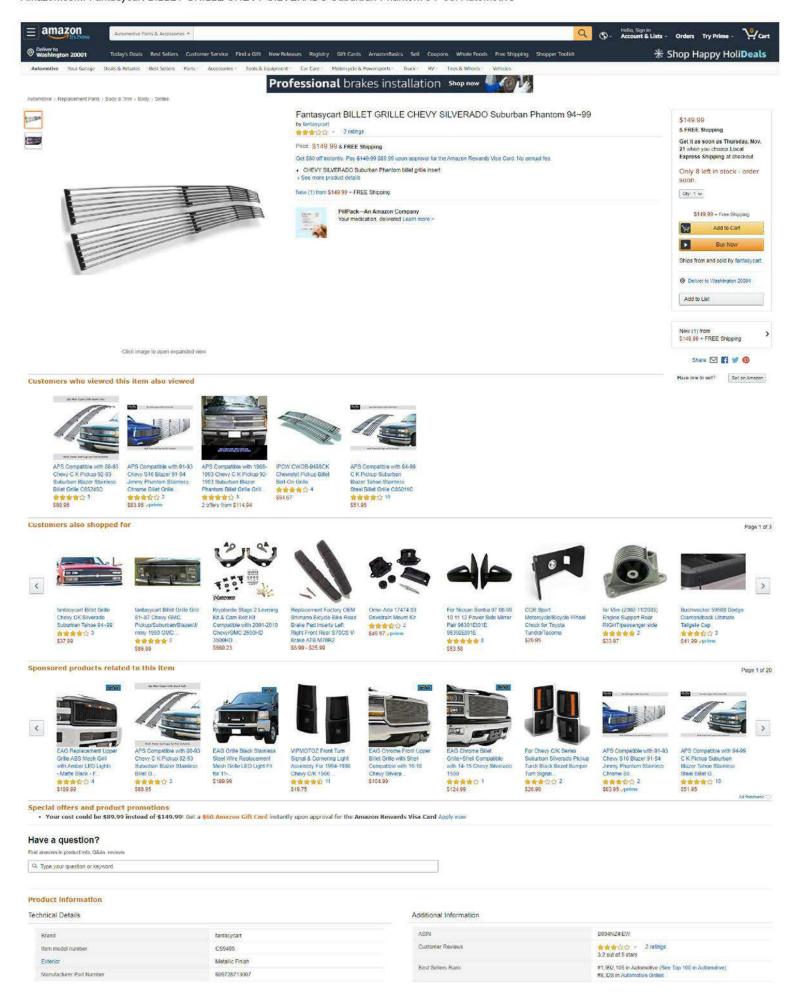


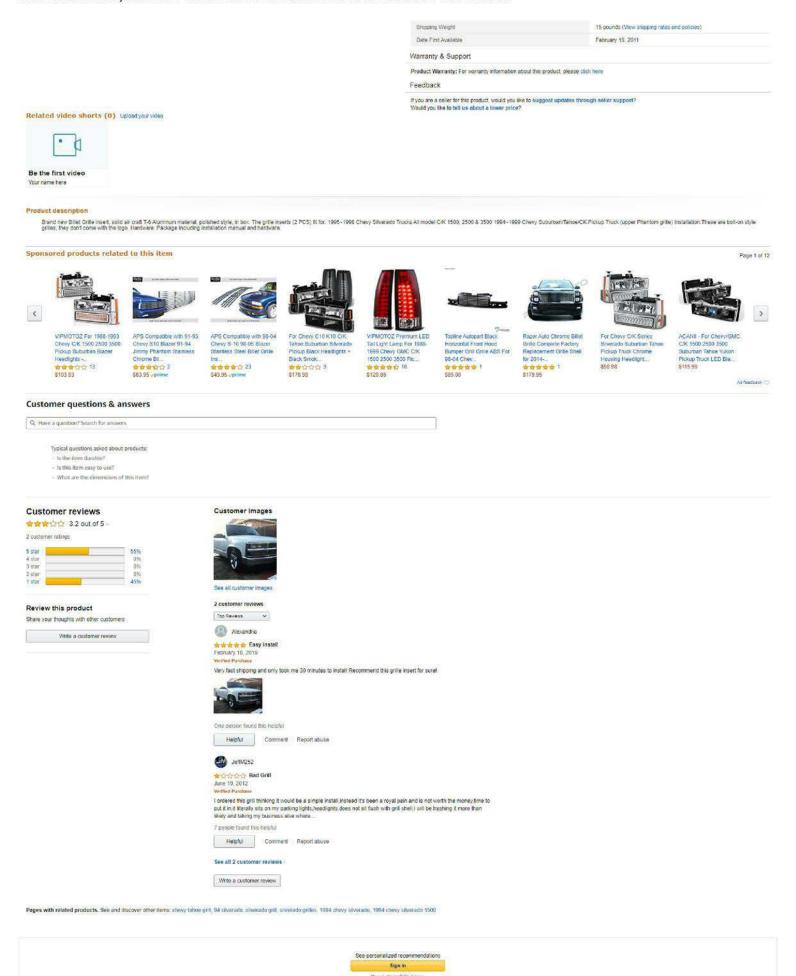
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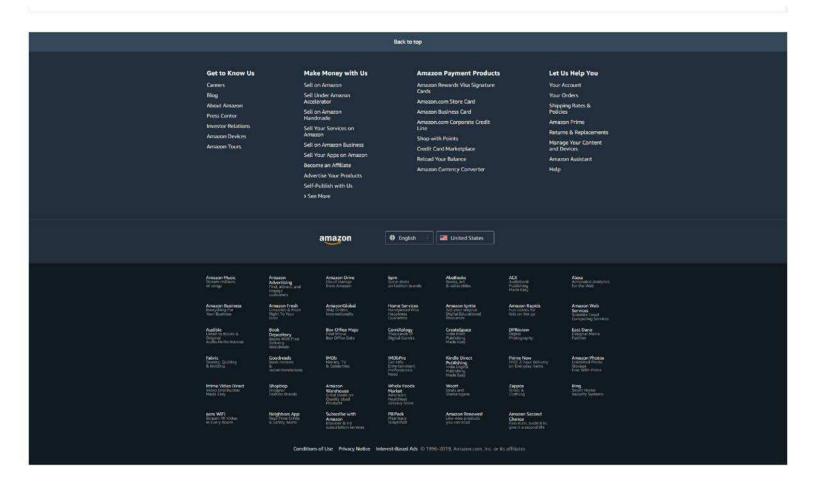
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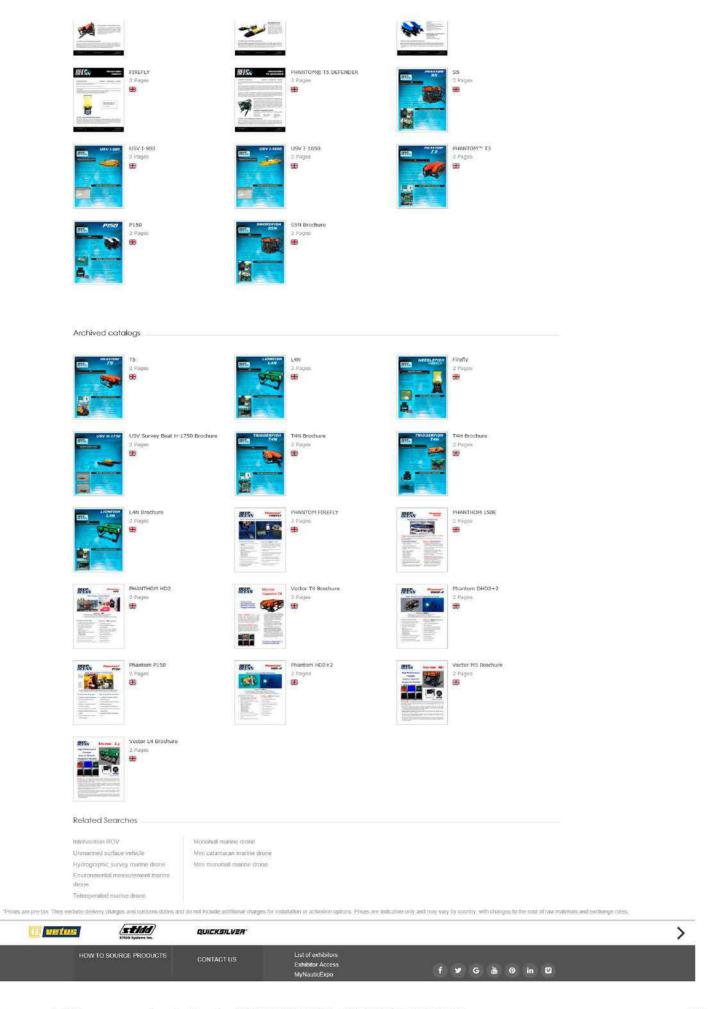
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What makes Rolls-Rovce Phantom worth \$643,000?



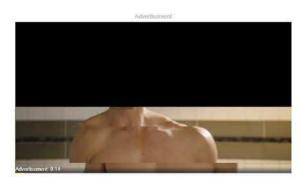
The eighth-generation Rolls-Royce Phantom saloon, the pinnacle of bespoke luxury vehicles, offers an opulent interior and an effortlessly floating ride.





The Rolls-Royce Phantom is a car. It has four wheels, four doors, a steering wheel, an engine. But that's where the similarity to any other vehicle on the road ends.

For \$643,000 — my God, \$643,000 — it's not so much a car as a sense of self-being. It is all about having what you want and how you want it, about being different even from other Rolls owners. For instance, Rolls-Royce will chop down the beloved tree in your estate and turn it into the dash and trim in your customized saloon. For a price.



It starts at a comparatively modest \$450,000 for the standard wheelbase, but the tester we spent the morning with was the \$530,000 extended wheelbase. Then there are options, such as power picnic tables and control screens mounted in the front seat backs, umbrellas discreetly stowed in the door frame, a power-folding footrest extending from the floor and quick-close dark curtains to envelope the rear in privacy. To be seen or not to be seen, that is the luxury.

Personalization is at the heart of the Phantom, the mother of all flagships, and Phantom is at the heart of Rolls-Royce, the bespoke British benchmark for automotive luxury. Phantom is the best of the best. Owners of the handmade cruise liner join an exclusive club of eccentrics, ranging from Fred Astaire to Queen Elizabeth, and from John Lennon to Kim Kardashian. Owners buy into a <u>rare class shrouded in mystique and mythology</u>, of which there is plenty. Contrary to popular mythology, Rolls-Royce does not raise its own cows. It will, however, purchase cows raised at higher elevations, where mosquitoes can't bite imperfections into the hides — it takes 8 to 10 to line a Phantom.

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Since 1925, Phantom has been the pinnacle of automotive luxury. It is the longest-running nameplate, excluding a decade for war and more recently, another decade in the '90s when Rolls-Royce was at its bleakest before being rescued by BMW.

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The eighth-generation Phantom joins the Ghost, Wraith and Dawn, as well as the forthcoming Cullinan SUV, in the revitalized brand lineup.

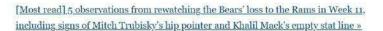
Concerns of too many models, and a token SUV, diluting a brand built on exclusivity are valid. Still, there were only 3,300 Rolls-Royce models sold globally in 2017, according to Rolls-Royce spokesman Gerry Spahn. And the seventh-generation Phantom, produced from 2003 to 2017, sold a bit more than 5,000, making it the best-selling Phantom ever.

Herein lies why the Phantom is so important to the brand. Not only will it be more exclusive, estimated to account for about 10 percent of Rolls-Royce total sales in 2019, it will be the architectural basis of all Rolls-Royce models moving forward.

The platform has been built in Goodwood, England, unlike in past years when Phantom and other models were based on a BMW 7-Series platform, when Rolls-Royce models used about 20 percent of BMW components. That's not so exclusive. Bentley uses Volkswagen's large vehicle platform.

It's more costly, but it's also more uniquely Rolls-Royce. The lightweight aluminum space frame is called the architecture of luxury, and it is 30 percent more rigid than the previous Phantom.





What all this means is the Phantom doesn't ride, it floats. The ride is so deadened and soft that even ubiquitous Chicago potholes went unnoticed. All the weight saved from using aluminum was regained with more soundproofing materials, so the Phantom still checks in at a stately 5,948 pounds, more than most full-size SUVs. Even the foam-insulated Continental run-flat tires were chosen exclusively for their sound-deadening quality.

Like Chicago potholes, the weight is also unnoticeable behind the wheel, thanks to an allnew, still massive 6.75-liter twin turbo V-12 engine mated to an eight-speed transmission that cranks out 563 horsepower and 664 pound-feet of torque. It gets 12 mpg city, which is one better than the 454-horsepower naturally aspirated V-12 of the outgoing model. Those are supercar specs, and quite an evolution from the 50-horsepower six-cylinder engine that powered the first Phantom.

The twin-turbo keeps lag to a minimum and all that torque is available at just 1,700 rpm, so step on the gas and the interior opulence won't be the only thing taking your breath away. This land shark hits 60 mph in 5.2 seconds, with a top speed of 155 mph to escape the paparazzi.

Despite the performance capability, the Phantom steers like a bus, with a big and wide







steering wheel in the Rolls-Royce way. It's almost like the chauffeur should be charged with a modest degree of work, especially since the rear-hinged coach doors close with the push of a button. The thin steering-column gear stick feels delicate amidst all the big and bold climate dials and console buttons.

Intentionally numb steering is balanced with some pretty advanced handling, thanks in part to electronically controlled air suspension and rear-axle or four-wheel steering, which is usually reserved for pure sports coupes like the Porsche 911. The wheels on the rear axle turn at a lesser degree of the front wheels to better execute U-turns and to minimize body roll. The rear-seat passenger feels no lean whatsoever in a turn.

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The extended wheelbase Phantom is all about the back seat passenger. In addition to massaging and reclining rear seats, the controller in the center console operates screens that fold out from the front seat backs onto wooden trays. So the mapping function can be on one screen while the other screen can be used to access the internet and order up some Dijon mustard. The rear cabin brings new and more accurate definition to the idea of a mobile office.

The proving ground of any purchase is value, regardless of price. Part by part, piece by piece, the Phantom offers things other automakers have, but none put together with such attention to detail and personalization. Take the Gallery, which is the dashboard extending from the 12.3-inch control screen to the passenger door; there are six standard pieces of artwork to choose from, such as Metropolitan in the tester, which was inspired by Fred Astaire's Phantom I. Or an owner could commission one of a dozen Rolls artists to make something more unique, like a 3-D-printed metal interpretation of his or her DNA. It doesn't get any more personal than that.

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The eighth-generation Roils-Royce Phantom extended wheelbase pictured in Chicago on March 21, 2018. The pinnacle of automotive luxury redesigns the world's oldest and most storied automotive nameplate with a new platform, new twin-turbo V-12 engine, and new technology. (Robert Doffer / Chicago Tribune)

shops in their towns »

Base price: \$530,000

As tested: \$643,360

Mpg: 12 city, 19 highway

Engine: 6.75 twin-turbo V-12

Transmission: Eight-speed automatic

Parting shot: Personalization for a price.



The eighth-generation Rolls-Royce Phantom extended wheelbase pictured in Chicago on March 21, 2018. The pinnacle of automotive luxury redesigns the world's oldest and most storied automotive nameplate with a new platform, ever when rurbe V-12 engine, and new technology.

Rolls-Royce Phantom extended wheelbase at a glance

Vehicle type: Full-size sedan

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Sample the Phantom

Don't have \$643,000, but still want to sample the Rolls-Royce lifestyle?

Peninsula Hotel Chicago has a Chicago by Air and Water package that includes a chauffeured ride in a Phantom to the Chicago Helicopter Experience for a helicopter ride over the city, followed by a Sea Dog cruise on Lake Michigan. A Chicago Lego set and chocoloate-shaped

(Robert Duffer / Chicago Tribune)

John Hancock are included in the fourhour family of four package for \$6,400

total.



The eighth-generation Rolls-Royce Phantom extended wheelbase is pictured in Chicago, March 21, 2018. The pinnacle of automotive luxury redesigns the world's oldest and most storied automotive nameplate with a new platform, new twin-turbo V-12 engine, and new technology. (Robert Duffer, Chicago Tribune)

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Robert Duffer CONTACT C

Robert Duffer is a writer, editor and teacher who has been covering cars at the Chicago Tribune since 2013. Though he's schooled in butterfly valves and cleaning battery nodes with a toothbrush, his most enduring automotive lesson was imparted by his father, who would speed up to nice cars and say "Don't look. Don't give the jerk the satisfaction." Duffer is an award-winning creative writer and essayist whose work has been broadcast on Chicago Public Radio and published in The New York Times and Canadian Builders Quarterly. An adjunct at Columbia College Chicago, where he earned his MFA, Duffer owns a Subaru Forester. His favorite car was his 2002 Honda Odyssey; his daughter's favorite car was "the truck," a 2014 Ram EcoDlesel Crew Cab; his son's favorite car was the "Tes-a-la" Model S. His dad is the jerk driving the '68 Ford Mustang.



8 Reasons Why (Literally Everyone) Should Get Bombas Socks



PHANTOM DRONE



