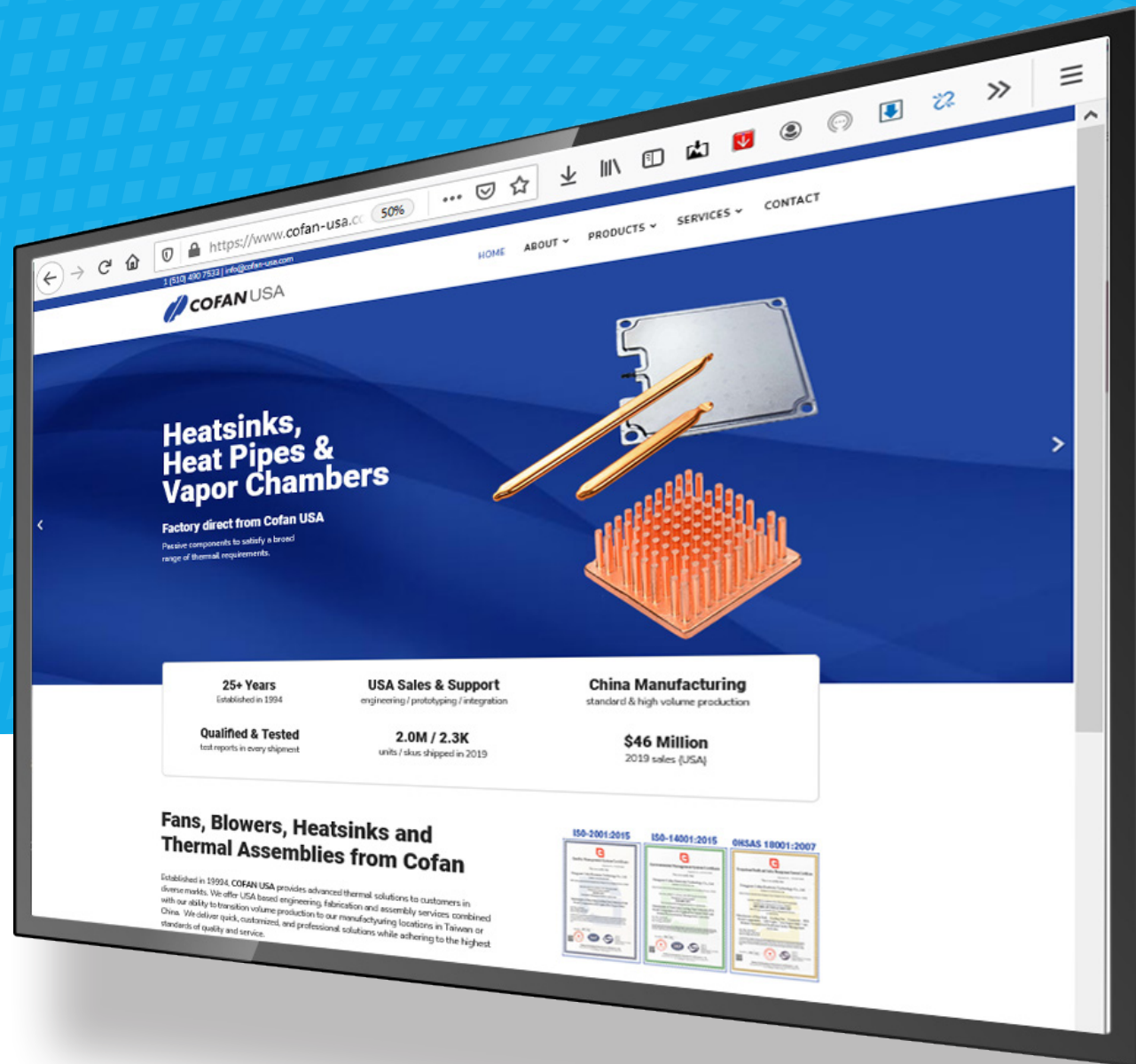




enterprise level web designs
for companies with hundreds,
thousands or millions of products

MANUFACTURER CASE STUDY: COFAN-USA

<https://cofan-usa.com>



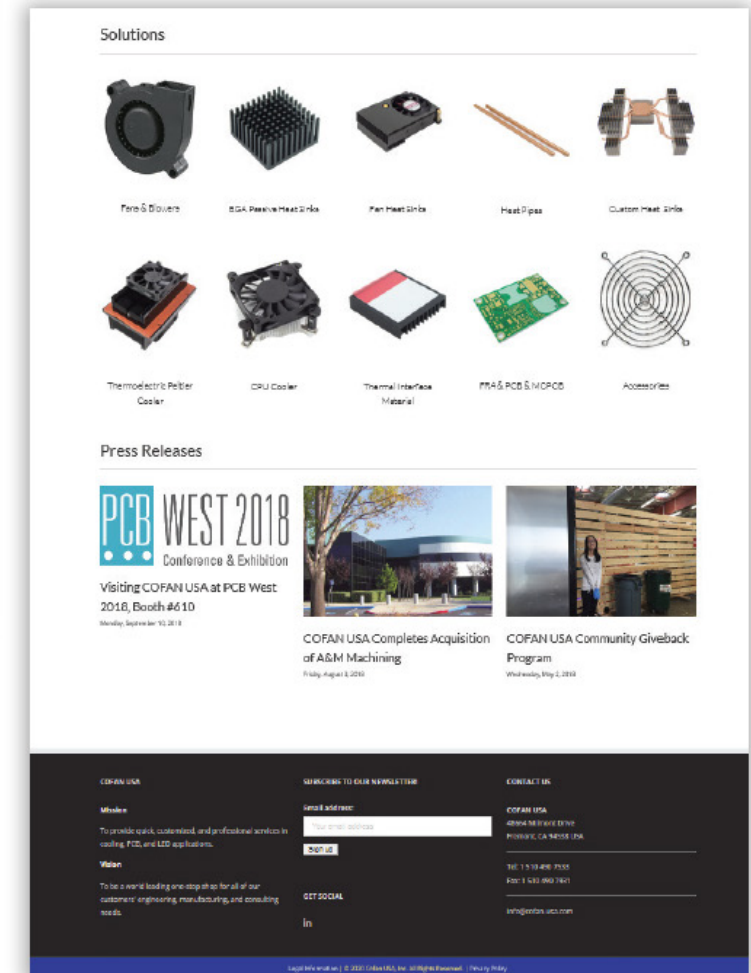
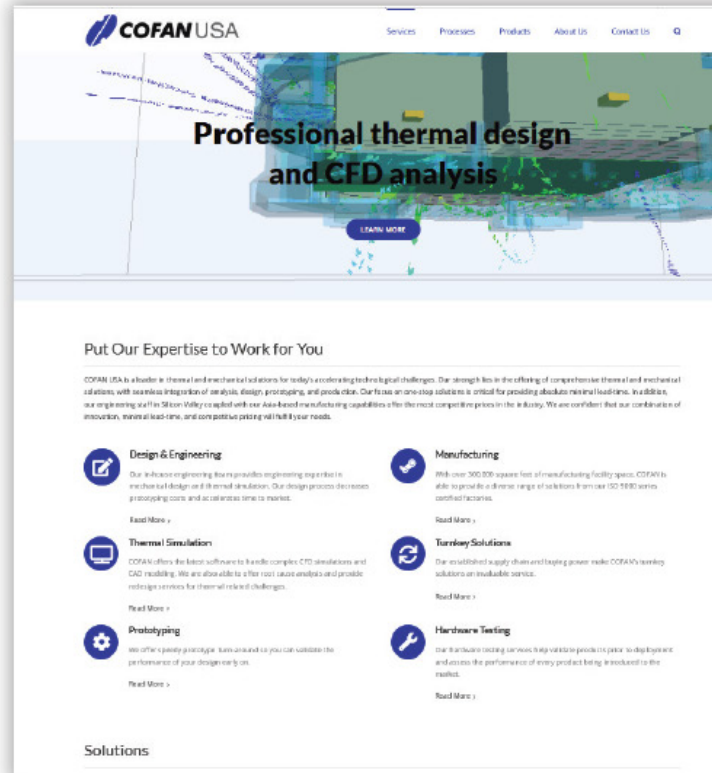
WORDPRESS PLATFORM

DEVELOPED IN-HOUSE OVER 3 YEARS

- Privately owned corporation
- Site Launched in 2016
- Fully Populated Site (Category & Product pages)
- No SEO Page Rank
- Needed to add Next Generation of Fans
- 3 year lifespan of site

HOME PAGE:

- Not an overall bad look for a small company
- Not Mobile Friendly
- Video in Banner area was a thermal simulation that rolls for >15 seconds, causing the home page to open up very slowly.
- Confusing marketing message
 - top half is all about engineering & simulation
 - lower half is standard products
 - no info to tie the two together
- Old news on home page from 2018
- Page Load Speed of 12 seconds



WORDPRESS PLATFORM

DEVELOPED IN-HOUSE OVER 3 YEARS

MENU:

- Disorganized Menu
 - Products & Services mixed together
 - Text Only - not intuitive
 - Not ordered properly
 - ◊ Why is numbering system before actual products?
 - ◊ What is a checklist & why before actual products?

Services	Processes	Products	About Us	Contact Us
Fan Numbering System		Fans & Blowers		
Fan Product Checklist		Heat Sinks		
DC Brushless Axial Fans		Heat Pipes		
DC Brushless Blower Fans		Cold Plates		
DC Frameless Fans		Vapor Chambers		
		Thermoelectric Peltier Cooling Modules		
		CPU Coolers		
		Thermal Interface Material		
		PCB & MCPCB		
		Accessories		

WORDPRESS PLATFORM

DEVELOPED IN-HOUSE OVER 3 YEARS

PRODUCT CATEGORY:

- Image and Dimensions Only (not even the series name listed)
- Can't discern difference between models of same dimensions
- No educational / marketing message (why use these fans?)
- Not Responsive for Mobile Displays
- Absolutely no content for Search Engines to Index

DC Brushless Axial Fans



20x20x6 mm



20x20x10 mm



25x25x10 mm I



25x25x10 mm II



25x25x15 mm



30x30x6 mm



30x30x10 mm II



30x30x10 mm III



40x40x7 mm



40x40x10 mm I



40x40x10 mm II



40x40x20 mm I



40x40x20 mm III



40x40x28 mm I



40x40x28 mm II



45x45x10 mm



50x50x10 mm



50x50x15 mm



50x50x25 mm



60x60x10 mm I



60x60x10 mm II



60x60x15 mm I



60x60x15 mm II



60x60x20 mm

WORDPRESS PLATFORM

DEVELOPED IN-HOUSE OVER 3 YEARS

PRODUCT PAGE:

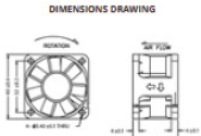
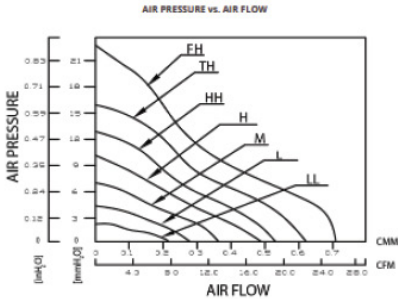
- This page is kind of well-designed, but . . .
- Part #'s don't fit in the table (break of a 2nd line)
- Table does not fit in page (caused a horizontal scroll bar)
- No specification download for a designing engineer
- No action to be taken (sample / rfq / buy)
- No keywords on the page, heck we do not even call this a fan
- No Structured Data (Schema / Rich Snippet) markup
- No usable content for a search engine to index properly

40x40x28 I



BEARING TYPE
2 Ball Bearing
70K hours* at 40 °C
* Based on estimated MTBF
TEMPERATURE
Storage: -40 ~ +70 °C
Operating: -10 ~ +70 °C
MATERIAL
Impeller: PBT85% + FIBER15% (UL 94V-0)
Frame: PBT85% + FIBER15% (UL 94V-0)

LEAD WIRES
12" wire
UL 1007, AWG #26/28
WEIGHT
24 Grams (0.85 oz.)
OPTIONAL FEATURES
Tachometer
Temperature Sensor
PWM
Locked Rotor
IP55



Model Number	Rated Voltage (V)	Operating Voltage (V)	Rated Current (A)	Actual Current (A)	Rated Power (W)	Rated Speed (RPM)	Max. Air Flow		Max. Static Air Pressure		No. of Blades
							CMM	CFM	mmH ₂ O	inH ₂ O	
F-4028L12B I	12	6-13.8	0.12	0.10	1.44	5500	0.256	9.39	4.35	0.171	32
F-4028M12B I	12	6-13.8	0.22	0.14	2.64	7000	0.345	12.19	6.96	0.274	40
F-4028H12B I	12	6-13.8	0.28	0.21	3.36	8500	0.422	14.92	10.39	0.409	45
F-4028HH12B I	12	6-13.8	0.42	0.30	5.04	10000	0.497	17.57	14.24	0.561	49
F-4028TH12B I	12	6-13.8	0.58	0.40	6.96	11500	0.581	20.53	19.02	0.749	54
F-4028FH12B I	12	6-13.8	0.66	0.52	7.92	13000	0.663	23.41	25.37	0.999	57
F-4028LL24B I	24	12-27.6	0.08	0.06	1.92	4000	0.188	6.64	2.30	0.091	24
F-4028L24B I	24	12-27.6	0.09	0.07	2.16	5500	0.256	9.39	4.35	0.171	32
F-4028M24B I	24	12-27.6	0.10	0.08	2.40	7000	0.345	12.19	6.96	0.274	40
F-4028H24B I	24	12-27.6	0.13	0.13	3.12	8500	0.422	14.92	10.39	0.409	45
F-4028HH24B I	24	12-27.6	0.21	0.19	5.04	10000	0.497	17.57	14.24	0.561	49
F-4028TH24B I	24	12-27.6	0.24	0.21	5.76	11500	0.581	20.53	19.02	0.749	54
F-4028FH24B I	24	12-27.6	0.35	0.34	8.40	13000	0.663	23.41	25.37	0.999	57

**Specifications are subject to change without notice

WORDPRESS PLATFORM

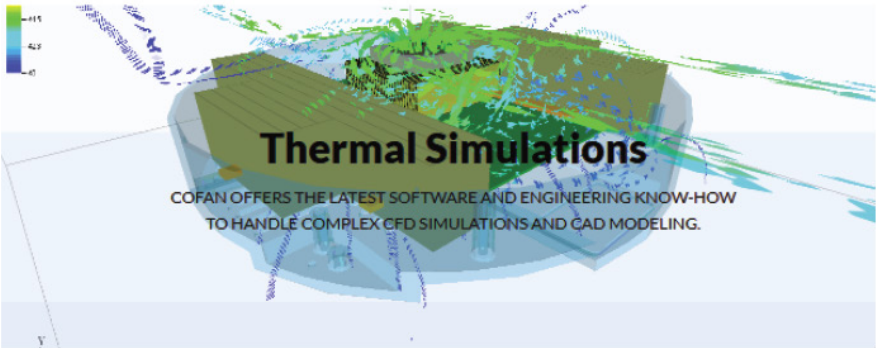
DEVELOPED IN-HOUSE OVER 3 YEARS

SERVICES PAGE:

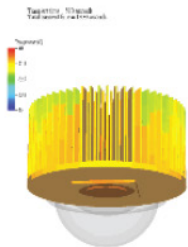
Considering that thermal simulation was a 15 second video on the home page banner, the page detailing this services should be more informative than:

- the same video as shown on the home page
- one picture
- one paragraph of text
- a price schedule
- a rebate list

Luckily, this page loads in a normal 6 seconds because the video had been cached from the home page, otherwise this page would take 15 seconds top open



Our Expertise



With more than 20 years of experience in thermal management solutions, we provide the best thermal simulation services offered in the industry to help reduce the costs of product development for our customers. We offer CFD analysis and consultation for the best possible arrangements and recommendations in thermal solutions. Whether you have a completely new product in need of a thermal solution or you have an existing product with non-functioning parts, COFAN is here to assist you.

Tools for Assisting Product Development

Simulation Software
• GSigmaET

Simulation Service Pricing Schedule

Phase	Service Content	Price	Notes
I	Standard Computational Fluid Dynamic (CFD) Services	\$2,800 - \$5,500 (\$100/hour)	1. Only thermal simulation based on customer's design. 2. Prerequisite of Project Phase II.
II	Advanced Computational Fluid Dynamic (CFD) Services	\$600 - \$91,800 (Per Simulation)	1. Thermal simulation (suggestion included). 2. The minimum purchase of the advanced CFD serves is five times.

Notes:

To determine the accurate quote, we will need to receive: 1) 3D CAD model; 2) the boundary conditions; 3) project requirements.

For all the project that utilized our prototyping and production services, we offer rebate on the simulation service fee.

Rebate Schedule:

Order Amount Within 6 Months	Rebate Calculation
>\$5,000	\$750
>\$10,000	\$1,500
>\$25,000	\$2,500
>\$100,000	\$5,000

Let's get the ball rolling!

WORDPRESS PLATFORM

DEVELOPED IN-HOUSE OVER 3 YEARS

SERVICES PAGE:

Heatsink assemblies being the major portion of this company's sales, they provide minimal data or information about their heatsink processes and services.

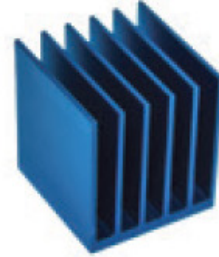
They had one page dedicated to heatsink processes, which opened up an even smaller page with one paragraph of text to describe the process.

Once again, they completely failed all SEO value, not even including the word heatsink on the page where they define their heatsink processes.

Manufacturing Processes



Die Cast



Extrusion



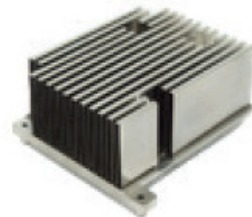
Stacked Fins



Skived Fins



Cold Forge



Folding Fins



CNC Machining



Sheet Metalworking



Injection Molding Plastics



Friction Stir Welding

DISTIMAN SOLUTION

**\$1500 SET-UP & \$750 PER MONTH
+40 HRS OF CONTENT & DESIGN WORK**

HOME PAGE

- Rotating Banners of Products & Services
- Summary of Company directly below banner
- 6 downloadable catalogs / presentation below company description
- Breakdown the 5 company divisions with their specialty, location and facilities
- Recent applications to demonstrate they build custom cooling sub-systems
- At a glance, a user can see their individual product specialties and appreciate the level of service offered to deliver complete cooling subsystems.
- More professional look & feel

1 (510) 490 7533 | info@cofan-usa.com

COFAN USA

HOME ABOUT PRODUCTS SERVICES CONTACT

Fans, Blowers & Impellers

Factory direct from Cofan USA
Substantial inventory for immediate delivery.

Ask us about status & control options, custom harnessing / enclosures and our thermal design, fabrication and assembly services.

25+ Years
Established in 1994

Qualified & Tested
test reports in every shipment.

USA Sales & Support
engineering / prototyping / integration

2.0M / 2.3K
units / skus shipped in 2019

China Manufacturing
standard & high volume production

\$46 Million
2019 sales (USA)

Fans, Blowers, Heatsinks and Thermal Assemblies from Cofan

Established in 1994, **COFAN USA** provides advanced thermal solutions to customers in diverse markets. We offer USA based engineering, fabrication and assembly services combined with our ability to transition volume production to our manufacturing locations in Taiwan or China. We deliver quick, customized, and professional solutions while adhering to the highest standards of quality and service.

At Cofan, we stand behind every product we ship with rigorous testing and reporting included in every shipment. Inspection begins with components at our dock and concludes with system level testing of final products. Our Quality Assurance engineers and technicians are dedicated ensure the quality designed into our processes and every product we touch.

To establish and maintain the highest quality practices, we have certified our manufacturing facilities to ISO-9001 standards and our heat sink fabrication facility to the ISO 14001 standard (environmental management). We also comply with OHSAS 18001 for employee safety. All our standard products are UL and CSA certified, and RoHS compliant.



CAPABILITIES / DOWNLOADS



OUR THERMAL COMPANIES

COFAN-USA	COFAN PRECISION	COFAN DONGGUAN	COFAN TAIWAN	COFAN PCB
Logistics, Design, Final Assembly and Test	Extruded and Machined Parts, Sheet Metal Fabrication	Fan, Blower, Impeller and Heatsink Manufacturing	PCB Manufacturing, Metal Fabrication and Integration	Metal Core PCB Design & Manufacturing
SILICON VALLEY 2,000' ft (Engineering) 70,000' ft (Production) 35,000' ft (Administration)	SILICON VALLEY 9,000' ft (Fabrication) 1,000' ft (Administration)	DONGGUAN 300,000' ft (Manufacturing) 10,000' ft (Engineering) 10,000' ft (Administration)	TAIWAN 30,000' ft (Manufacturing) 5,000' ft (Engineering) 5,000' ft (Administration)	TOKYO/ID 20,000' ft (Manufacturing) 5,000' ft (Engineering) 5,000' ft (Administration)

RECENT APPLICATIONS



Hot-Swap Fan for 3U Network Server

Our 3U height hot-swap fan assembly consists of a metal faceplate, latch, led indicator and blind mate connector allowing hot-swap replacement of cooling fans without forcing the system down. 2...



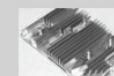
Custom Thermo Electro Cooler

Our custom thermoelectric cooler assembly consists of an extruded heatsink, 4 fans with fan guards and custom harnessing attached to a pettier heat transfer device for mounting on the outside of a...



Custom Fan Assembly

Simple fan assembly consisting of 3 fans attached to a custom sheet metal bracket with a custom wire harness to connect the fans to power and monitor each of the fan's tachometer signals.



Custom Machined Heatsink

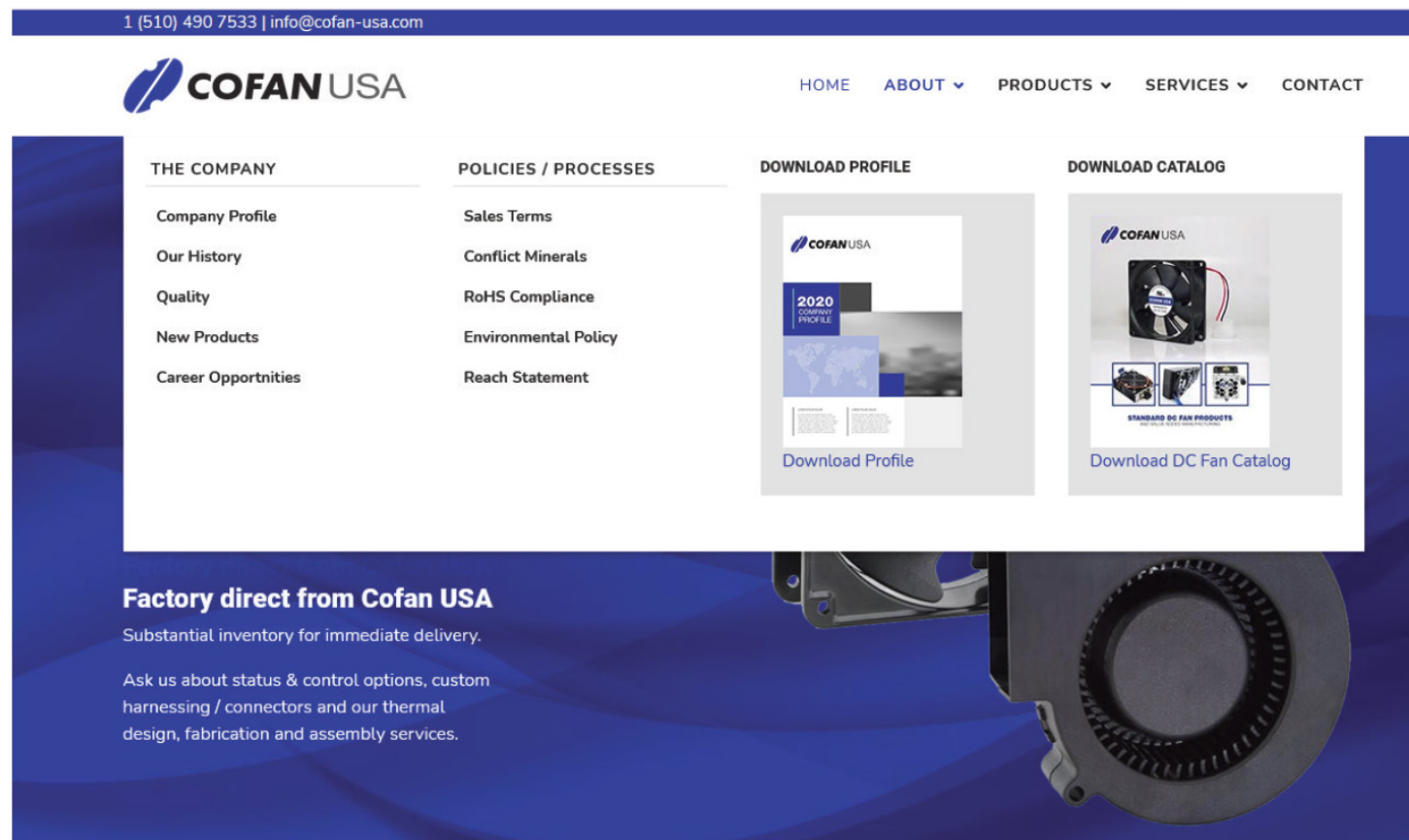
This custom machined heatsink was built using 3axis machining techniques to provide a multi-level conduction surface and cooling blades with various keep out area along with threaded mounting inserts.

DISTIMAN SOLUTION

\$1500 SET-UP & \$750 PER MONTH
+40 HRS OF CONTENT & DESIGN WORK

EXPANDED “ABOUT” CONTENT

- DISTiMAN comes pre-built with 20+ product content pages to cover About US, Management, Terms, Quality, Environment, etc. . . This customer chose to use 10 of these pages, making them appear like a much larger enterprise.
- This enhances the professional presentation of your company, making designers, buyers and managers more comfortable to work with the company
- This added “Depth of Content” and more opportunities to pepper the site with key words, in creasing the page value of the over all sit for the search engines.
- All these pages load in < 2 secs



DISTIMAN SOLUTION

\$1500 SET-UP & \$750 PER MONTH
+40 HRS OF CONTENT & DESIGN WORK

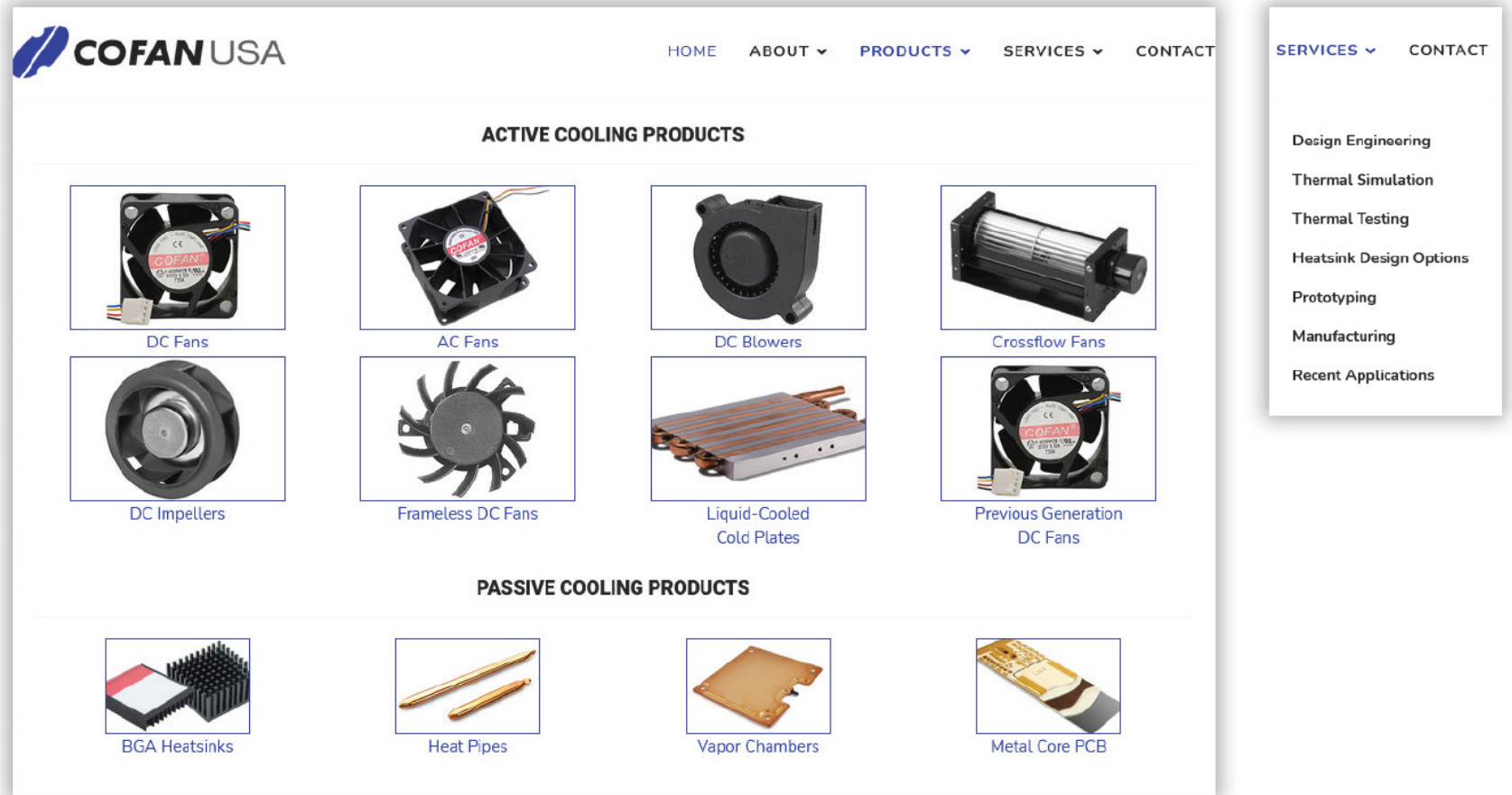
RICH NAVIGATION:

First, we separated Products and Services into two separate categories to minimize confusion between a “standard off-the-shelf” product versus an “engineered solution”.

For products we implemented a picture driven menu to simplify category selection.

For Services we used plain text, but ordered the services in a manner that would follow a typical “design-to-manufacturing” process flow.

This approach further presents the company’s product and services offered more clearly.



DISTIMAN SOLUTION

\$1500 SET-UP & \$750 PER MONTH
+40 HRS OF CONTENT & DESIGN WORK

CATEGORY OF PRODUCT FAMILIES:

- Used a table instead of a grid representation of products
- Display 8 primary characteristic of each fan to assist selection
- Added a marketing message to the top of the table and a catalog download for this product category
- Added secondary DC Fan information below the table
- Downloadable pdf's direct from the category view
- Mobile friendly List
- Highly optimized (Heading tag, alt tags, url titles, Schema mark-up, additional depth of content, breadcrumbs, interlinking category to sub-pages and back, etc. . . .

DC Fans (Next Gen)

20~254mm products

COFAN has been delivering axial fan technology for more than 25 years. All our DC Fans are safety qualified to UL/cUL 62368-1 and supported by our one year warranty. Our facilities are ISO 9001:2015, ISO 14001:2015, and IATF 16949:2016 certified. Our DC brushless motor technology delivers lasting performance with our two-ball bearing life expectancy (L10 at 40°C) of 30,000 ~ 100,000 hours. Test and inspection reports ship with every order to confirm our delivered quality.



Download our
DC Fan Catalog

Image	Part No	PDF	Height (mm)	Width (mm)	Voltage	CFM	Bearing	Tachometer (Option)	Alarm (Option)	PWM (Option)	Thermistor (Option)	Analog (Option)
	AGE02006F		20	6	5	0.35-1.06	F	X	X			
	AGE02510		25	10	5,12	0.52-2.41	B,F	X	X	X		
	AGE03010		30	10	5,12	2.99-5.65	B,F	X	X	X		
	AGE03510B		35	10	5,12	2.10-5.51	B	X	X	X		
	AGE03820B		38	20	12,24	6.30-10.60	B	X	X	X		
	AGE03828B		38	28	12	9.44-19.16	B	X	X	X		
	AGF12038B		120	38	12,24,48	114.7-172.5	B,F	X	X	X		
	AGD12038B		120	38	12,24,48	190.5-212.6	B	X	X	X		X
	AGV12038B		120	38	12,24,48	195-234	B	X	X	X		
	AGB12038B		120	38	12,24,48	171.4-265.8	B	X	X	X		
	AGE15051B		120	38	24,48	263-472.5	B	X	X	X	X	X
	AGE12025		120	25	12,24	40.6-85.5	B,F	X	X	X		
	AGB14038B		140	38	12,24,48	212-310	B	X	X	X		
	AGF15051B		172	51	24,48	310.6-410.5	B	X	X	X	X	X
	AGE25489B		254	89	24,48	595-747	B	X	X	X	X	X

TECHNICAL SPECIFICATIONS FOR ALL OUR DC FANS:

Material: Frame, Impeller: Plastics, Aluminum, etc.
Operation Environment: Two ball bearing: -10°C~+70°C, Humidity: 35%~85%RH / FMB: -10°C~+50°C, Humidity: 35%~85%RH
Storage Temperature: -40°C +75°C (Humidity: 35%~85%RH)
Insulation Resistance: 5mA MAX. at 500 VAC 60Hz one minute (between frame and lead conductor)
Vibration Resistance Test: Applied 5.30Hz, 0.04 peak to peak amplitude, 30~500Hz, 2G peak amplitude for five minutes to all three axis/5.3Hz,0.04
Shock Test: Under the conditions of 60G, 22ms (1/2 sine), two times to all three axis

- Showing one image (could show more)
- PDF Download Link
- RFQ Action Button on each row of part numbers
- Features stuffed with keywords
- Primary Characteristic fields
- Part Number table with sortable columns
- loads in < 3 secs
- Highly optimized (Heading tag, alt tags, url titles, Schema mark-up, additional depth of content, breadcrumbs, interlinking with category



120 x 38mm Axial DC Fan

Datasheet  [AGV12038B.pdf](#)

Features

- UL/UL 62368-1 Approved Axial DC Fan
- Axial DC fan frame & impeller manufactured of PBT (UL94V-0)
- 2-Ball Bearing Axial DC Fan -10-C-70-C Operating Temperature Range
- Fluid Bearing Axial DC Fan -10-C-50-C Operating Temperature Range

Height (mm)	120
Width (mm)	38
Voltage	12,24,48
CFM	195-234
Bearing	B
Tachometer (Option)	X
Alarm (Option)	X
PWM (Option)	X

Cofan DC cooling fans feature high airflow, high reliability, and low noise proven with test reports in every shipment.

Part No 部品番号	Bearing	Voltage	V Range	Rated Current	RPM	m3/min	CFM	mm/H2O	in/H2O	dBA		
AGV12038B12H	B	12	7.0~13.2	4.44	5500	7.59	268	37.1	1.46	65	R.F.Q.	SAMPLE
AGV12038B12L	B	12	7.0~13.2	1.71	4000	5.52	195	19.6	0.77	58	R.F.Q.	SAMPLE
AGV12038B12M	B	12	7.0~13.2	2.95	4800	6.63	234	28.3	1.11	62	R.F.Q.	SAMPLE
AGV12038B24H	B	24	14.0~26.4	2.22	5500	7.59	268	34.4	1.35	65	R.F.Q.	SAMPLE
AGV12038B24L	B	24	14.0~26.4	0.86	4000	5.52	195	17.8	0.7	58	R.F.Q.	SAMPLE
AGV12038B24M	B	24	14.0~26.4	1.48	4800	6.63	234	26.2	1.03	62	R.F.Q.	SAMPLE
AGV12038B48L	B	48	28.0~56.0	0.43	4000	5.52	195	17.8	0.7	58	R.F.Q.	SAMPLE
AGV12038B48M	B	48	28.0~56.0	0.74	4800	6.63	234	26.2	1.03	62	R.F.Q.	SAMPLE

DISTIMAN SOLUTION

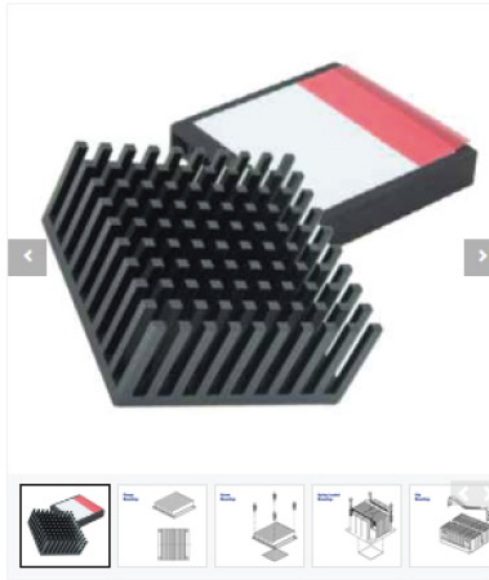
\$1500 SET-UP & \$750 PER MONTH
+40 HRS OF CONTENT & DESIGN WORK

CONFIGURATOR PAGE:

- Showing one image & 4 illustrations
- PDF Download Link
- Short description
- Primary Characteristic fields
- User can configure their part #
- Add configuration to the quote cart
- This one configurator replaced 19,584 possible parts
- Highly optimized (Heading tag, alt tags, url titles, Schema mark-up, additional depth of content, breadcrumbs, interlinking with category)

[Home](#) / [BGA Heatsinks](#) / [BGA Heatsink](#)

BGA Heatsink



COFAN'S BGA heatsinks are high efficiency cooling products designed to serve today's leading edge processor and memory chip applications. Our website makes it easy to quickly configure the right solution to meet your needs.

[R.F.Q.](#)

[SAMPLE](#)

Download  [bga.pdf](#)

Alloy	Aluminum or Copper
Finish	Anodized or Black Powder Coat (Consult for Custom Requests)
Type	Plate Fine, Cross Cut (loose) or Cross Cut (Tight)
Footprint	17~49mm Baseplate Footprints (standard)
Heights	10~40mm height (standard)
Interface	Optional Thermal Pad
Mounting	Optional Screw, Spring-Loaded, Clip and Z-Clip Mounting Options

Use the fields below to configure your part number:

AL 01 PF 29 30 T

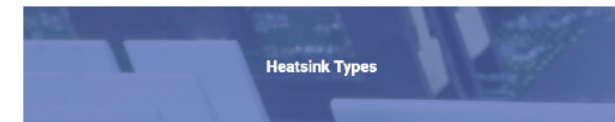
[ADD TO RFQ CART](#)

Aluminum	Clear Ano	Plate Fine	29x29mm	30mm	Thermal F	-- Select --
Alloy	Finish	Type	Footprint	Height	Thermal Pad	Mounting

** Please be sure to follow configuration rules in the Datasheet, we will confirm your configuration with the factory as soon as possible.*

**\$1500 SET-UP & \$750 PER MONTH
+40 HRS OF CONTENT & DESIGN WORK**

- Using same content of Thermal Simulation page, but added 6 examples from a PowerPoint presentation available as shadow-box images brings much more value to this page.
- Heatsink Types page, added description and messaging at top of page, added a chart to better demonstrate cost / benefit of heatsink types. Added text descriptions next to images to make this one page more valuable.
- Now there is enough content and keywords utilized for page to earn some SEO value.



Heatsink Types

The most critical factor in thermal management is to maintain die or junction temperatures below the maximum threshold or called maximum junction temperature. It is commonly accepted that for every 1°C reduction in junction temperature will double the life expectancy of the device. Performance of the device will often be greatly impacted by junction temperature. The most common and economical methods date for cooling devices is the use of air moving. Heatinks provide increased heat spreading and extended surface area to dissipate heat through air movement.

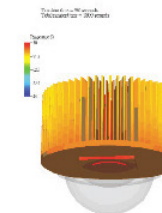
The parameters are used to determine what type of heat sink relate to the amount of heat to be dissipated, maximum allowable junction temperature, thermal resistance of the device, available space, allowable weight, air flow and cost. There are numerous ways to manufacture a heat sink, each offering its own unique set of benefits and drawbacks. The most common ways of manufacturing heat sinks are listed below to help you better appreciate possible design decisions when choosing and designing your thermal management solution.

Our Expertise

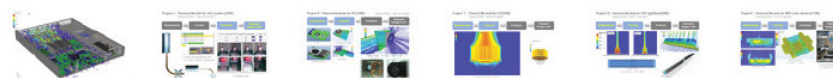
With more than 20 years of experience in thermal management solutions, we provide the best thermal simulation services offered in the industry to help reduce the costs of product development for our customers. We offer CFD analysis and consultation for the best possible arrangements and recommendations in thermal solutions. Whether you have a completely new product in need of a thermal solution or you have an existing product with non-functioning parts, COFAN is here to assist you.

Simulation Software : 6SigmaET

6SigmaET is a thermal modelling tool that uses advanced computational fluid dynamics (CFD) to create accurate models of electronic equipment. Designed specifically for the electronics industry, this software is tailored to meet your requirements and to help you overcome thermal design challenges.



EXAMPLE PROJECTS

[CLICK TO EXPAND VIEW](#)

Production Cost Comparison

Gay Men

Dating App Type	Number of People
One Gender	10
Everyone	20
Both Genders	30
Both Genders and Friends	40
Both Genders and Friends and Family	50
Both Genders and Friends and Family and Friends	60

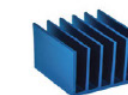
Gay Women

Dating App Type	Number of People
One Gender	10
Everyone	20
Both Genders	30
Both Genders and Friends	40
Both Genders and Friends and Family	50
Both Genders and Friends and Family and Friends	60

Manufacturing Processes



Forging is a deformation process in which the work is compressed between two dies, using either impact or gradual pressure to form the part. It is the oldest of the metal forming operations, dating back to perhaps 6000 BC. Cold Forging is the technique of deforming metals into a desired shape by localized compressive force at room temperature. Fin arrays are formed by forging raw material into molding dies by a punch. This process increased the impact and shear strength, and improved grain structure, ductility and reliability of the final product.



Extrusion is the technique of pressing a heated billet through a die of desired cross section profile. It is similar to squeezing toothpaste out of a toothpaste tube. This process is very used for its low tooling cost and high production output.

Ridged fins are created by a progressive stamping method. After the folding, the fins are bonded to a base with thermal conductive epoxy, or welding to bond the metals. Folding fins can combine aluminum and copper to take the performance of the heat sink to different locations.



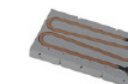
Slotted fins are made by a knife tool that shaves fins up from an extruded aluminum or copper block. This predecessor creates an externally high fin to gap aspect ratio, which increases the surface area and drastically improves the thermal performance in forced air flow environments.

Stacked fins (also known as zipper fins or snapped fins) are assembled out of individual pieces metal sheets forming a dense interlocked fin array soldered to a copper or aluminum base. It allows a wide range of shapes and very long fin heights.



CNC machines are electro-mechanical devices that use computers to control machine tools. CNC stands for Computer Numerical Control and it represents one of the two common methods (2d printing and fused filament fabrication) to create prototypes. Unlike 3D printing, CNC machines remove material from a block of plastic or metal.

Injection molding is a process in which a polymer is heated to a highly plastic state and forced to flow under high pressure into a mold cavity, where it solidifies. The molded part, called a *molding*, is then removed from the cavity. This process produces discrete components that are almost always in a net shape. The production cycle time is typically in the range of 30 to 200 seconds, although cycles of 1 minute or longer are not uncommon for large parts.



Friction stir welding (FSW) is a solid-state joining process that uses a non-consumable tool to join two facing workpieces without melting the material. The process derives its name from the stirring or mixing action. The rotating tool is stepped consisting of a cylindrical shoulder and a smaller pin projecting beneath it. The RPM of string head is usually between 600 to 1,000 RPM, and different pin heads will be used for different welding materials.

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