

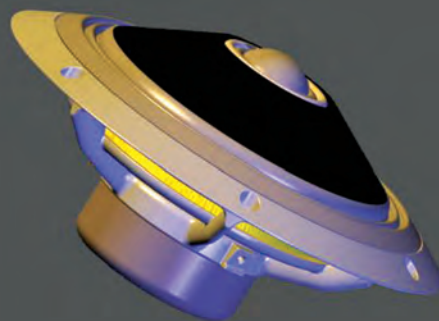
SPECIAL REPORT: Twilight of the Rising Sun?

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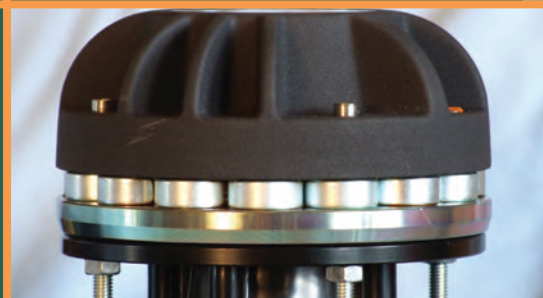
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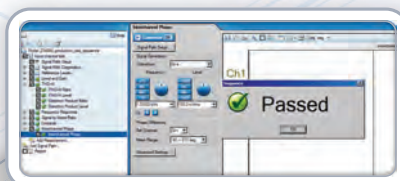
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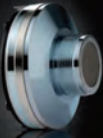
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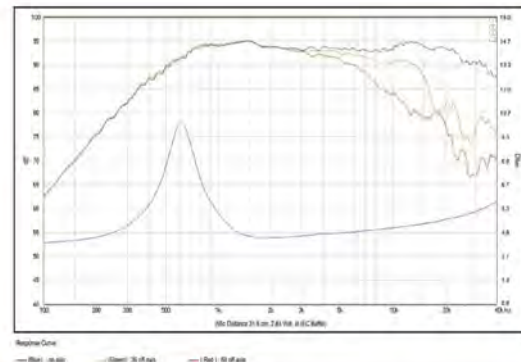
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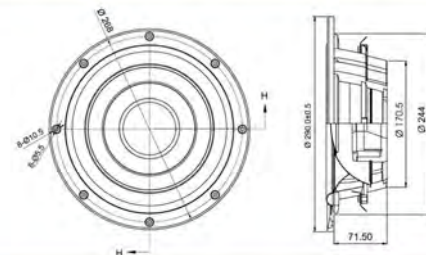
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Voice coil diameter	75.5 mm	Electrical Q-factor, Qes	0.28
Voice coil height	30 mm	Total Q-factor, Qts	0.27
Air gap height	6 mm	Mms	178 g
Linear coil travel (p-p)	24 mm	Force factor, Bl	22.24 Tm
Magnetic flux density	1.0 T	Equivalent volume, Vas	45.84 liters
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Twilight of the Rising Sun?

By Nora Wong, Maria Markowski, and Chris Clendening

Japan hit its prime in the late 1980s. The Japanese seemed unstoppable, a perfect storm of favorable exchange rate making Japanese products a great value, and innovative precision products that led the market. Japan had built up huge cash reserves, and, as the yen to the dollar exchange slid from 300 yen to the dollar to 90 yen to the dollar, Japan Inc. began its move to acquire U.S. assets. Sony bought Columbia in 1988 (now Sony Entertainment). Mitsubishi bought Rockefeller Center in 1989. In 1990 MCA was acquired for \$1.6 billion by the Matsushita Group (Panasonic).

We conferred with Mike Klasco, president of Menlo Scientific (www.menloscientific.com). Mike consulted for Yamaha Japan from 1989 to 1991 commuting back and forth between Northern California and central Japan, and shared his recollection of that period:

“Yamaha was a great company to work with—but as the decade turned to the 90s, Japan experienced what the U.S. had faced decades earlier. The exchange rate was going against Japanese exports faster than more efficient design, automation, and value engineering could compensate for. This Japanese giant had a factory manufacturing complex surrounded by hundreds of small vendors which daily brought over just-in-time supplies into the main compound.

“These sub-contractors were often staffed by semi-retired members of the main factory. By the end of my work in 1991, many of the Japanese sub-contract vendors around the plant were already gone—with the sub-assembly work moved to Taiwan and Malaysia.

“Michael Crichton’s 1992 best seller *Rising Sun* (and the movie the following year) was more real than fantasy—at least as far as many of the aspects of Japanese culture. By the time I parted ways with Yamaha in 1991, the Hamamatsu train station had acquired a cardboard box manor of homeless. All of Asia suffered from the Asian Flu financial crisis. Japan was especially hard hit. The period from 1991 to 2000 is now called Ushinawareta Jūnen, Japan’s “lost decade,” essentially a great depression. In some ways Japan’s depression has disturbing similarities to the current U.S. economic mess—the real estate bubble burst, banks kept junk loans on the books, and many banks consolidated, resulting in only

four national banks.”

The last decade has seen Japan’s shaky incomplete recovery. Toyota has Hyundai taking more than a bite out of its lunch, although Toyota has done more to undermine its own position than the punches from competitors. Sony is besieged by Samsung on many consumer electronics fronts, with Microsoft taking the wind out of Sony’s PlayStation business, and Sony’s Walkman is now just a footnote in the Apple iPod story.

With Japan struggling to keep its head above water in a global recession and the competitors from Korea and China knocking on the gates, the present catastrophes hit. The direct impact of the 9.0 earthquake and resulting tsunami in the northeast region—the Fukushima prefecture—was staggering in itself, but the nuclear plant issues may yet strike the final blow.

The Dai-Ichi Nuclear Plant and Chernobyl in the Ukraine are of different plant construction and the causes of failure are dissimilar. We are not in the nuclear plant engineering business, and at this point nobody knows whether there are going to be further nasty surprises from the Dai-Ichi plant, or even the potential for radiation contamination in the future. The reports vary each day, with ongoing disintegration of the facility, the accuracy and even the honesty in question, along with the impact of winds on the spread of radiation.

The quake, tsunami, and location of the nuclear plants are in northeast Japan, where both industry and farming flourish. The future of food production from this region is questionable, regardless of actual contamination safety issues. I suppose if you

are starving, you may welcome the government agencies that will let the crops ship. Yet we know the Japanese people are very particular about their food, and I will wager that most will not intentionally touch anything grown in the northeast region for a long, long time. The Japanese government is already destroying beef with contamination levels higher than traditionally acceptable. While Kobe beef is from central Japan, if the radiation leaks continue to increase, it seems contamination to this area will be inevitable.

From the industrial side, anything near sea level along the northeast coast has been swept away. The thought of rebuilding anywhere in the vicinity of the nuclear power plant will not be under consideration until the nuclear situation is stable





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and the long-term implications are understood and managed.

Pioneer Tohoku (Tohoku is Japanese for Northeast) yields some premium speaker production for studio and audiophile products such as TAD. Some of the factories to the west, such as Pioneer's Mogami cone and diaphragm factory in Yamagata, were not touched by the tsunami, but may still be susceptible to wind-carried radiation. Pioneer has stated that all employees and their immediate families in Japan are reported to be safe and unharmed.

"We have learned that Pioneer Corp. headquarters in Kawasaki and our plant in Kawagoe did not sustain significant property damage," stated Pioneer in *Twice* magazine (www.twice.com).

Due to the electricity shortage in Tokyo and surrounding areas, Pioneer said, "it [has been] difficult to maintain regular business hours. Additionally, public transportation in the area is not yet back to its normal operating level, affecting some employees' ability to commute to and from their offices."

Mitsubishi Electric said major business operations in the Tohoku region have sustained damage as a result of the earthquake, but no significant injuries among employees have been reported. At the Tohoku branch, located in Sendai, Miyagi prefecture, "there was some damage in the office." At the Koriyama factory, located in Koriyama, Fukushima prefecture, some damage was reported and "production has temporarily ceased at this factory, which manufactures CCTVs and communications equipment. Upon confirming operational safety, Mitsubishi Electric will consider when to resume operations, while taking into account the impact of the earthquake on its manufacturing facilities." Yamaha president Mitsuru Umemura issued a statement, saying, "We have not received any reports of injuries to Yamaha Corporation personnel."

"Yamaha's sales office in Sendai, and retail shops of sales companies located in the disaster area sustained some slight damage, and we have closed some retail stores and music schools in this area. The Kakegawa factory and Toyooka factory, both located in Shizuoka prefecture, are continuing normal operations," the company said.

Alpine said no injuries have been reported at its Iwaki City global headquarters in the Fukushima prefecture or at affiliated companies in Japan. Alpine's global headquarters "suffered some damage due to the earthquake," according to the company, which is evaluating damage to its administrative offices and manufacturing plants there. Once the safety of the facilities is confirmed, operations will resume, it added. In the meantime, the Iwaki headquarters and other local Alpine companies were closed from Monday, March 14, through Monday, March 21. During that time, limited personnel continued to work toward restoring manufacturing and operations, the company said.

Semiconductor manufacturing must be vibration-free and precisely calibrated (**Photo 1**). These plants that manufacture consumer electronics ICs are going to take months to get back on-line. Expect shortages on mixed signal ICs such as class D

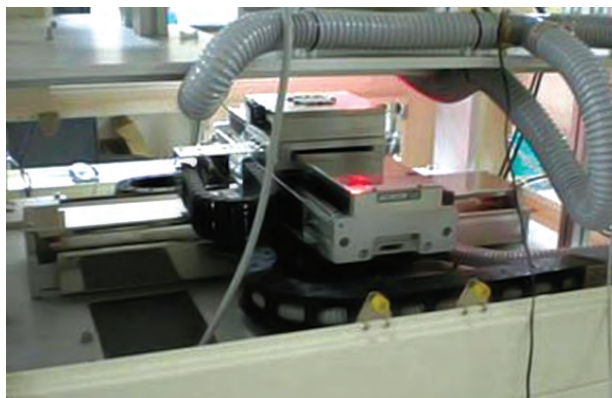


Photo 1: Power shortages, the quake, tsunami, and tremors are not conducive to quality semiconductor manufacturing.

switching amps and switching power supply ICs. Packaging digital logic, analog audio, and power transistors into an IC is limited to specialized IC foundries mostly in Japan.

Sony has paused operations at its Blu-ray disc plant and one corporate office. Other Sony locations voluntarily closed to assist in disaster recovery, but no significant injuries of employees have been reported at any of these sites when the earthquake or tsunami occurred. The plants that will face the greatest challenges are the ones in the northeast. These include Sony Energy Devices Corporation, Koriyama, and Motomiya plants, which produce Lithium Ion secondary batteries. In addition to these manufacturing sites, Sony Corporation Sendai Technology Center (Tagajyo, Miyagi) temporarily ceased operations.

According to an article in *Twice*, many other Japanese electronics manufacturers, including D&M (Denon and Marantz) and Toshiba, were also focusing their attention on the safety and welfare of their employees. The companies noted that all employees were safe and accounted for, and that the facilities were being evaluated for damage. So far, damage seems minimal.

Other issues that will affect most Japanese manufacturing on an ongoing basis include supply chain interruption caused by a combination of damaged facilities of key parts suppliers, damaged roads, and limited rail service. All of Japan is experiencing power shortages. Everyone is expecting supply problems from Japanese vendors. We are writing this report from Asia, and the entire supply chain is busy looking to source workarounds for Japanese components. While this may ease supply issues from product assembled in the rest of Asia, it does not provide an encouraging picture for Japan's recovery.

On the surface, Japan is ready to go back to work, and the months following the quake have seen little impact on product availability. Yet about the time this article appears in print, the real shortages will begin. Most operations in Japan maintain a two-month inventory that is on consignment from the supplier. In most cases these reserves will be depleted sometime in May, with erratic supply following for the foreseeable future. Recovery will not be in terms of months but of years. Perhaps Japan's Second Lost Decade has just begun. ■

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Enclosures & Cabinets, OEM Speaker
Assembly, Driver Reconing, Acoustic Design,
Licensing

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OEM Speakers & Drivers, Passive Components, Crossovers & Wiring

Engineering Software

Speaker Parts, Manufacturing Equipment

OEM Speakers & Drivers

OEM Speakers & Drivers, Speaker Parts,
Enclosures & Cabinets, Finished Systems,
Consultants & Designers, OEM Speaker As-
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OEM Speakers & Drivers, Speaker Parts,
Passive Components, Crossovers & Wiring,
Test Equipment, Enclosures & Cabinets,
Finished Systems, Consultants & Designers,
OEM Speaker Assembly, Enclosure Parts,
Service, Manufacturing Equipment, Acoustic
Design

OEM Speakers & Drivers, Test Equipment

Speaker Parts, Passive Components,
Crossovers & Wiring, Test Equipment,
Manufacturing Equipment

OEM Speakers & Drivers, Speaker Parts,
Enclosures & Cabinets, Finished Systems,
Consultants & Designers, OEM Speaker
Assembly, Enclosure Parts

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OEM Speakers & Drivers, Passive Components, Crossovers & Wiring, Finished Systems, Consultants & Designers, Driver Reconciling, Service, Acoustic Design

Finished Systems, Consultants & Designers,
Acoustic Design

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Consultants & Designers

Test Equipment

Enclosures & Cabinets, Enclosure Parts

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Test Equipment, Finished Systems

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Passive Components, Crossovers & Wiring,
Enclosures & Cabinets, Finished Systems, Con-
sultants & Designers, OEM Speaker Assembly,
Driver Reconing, Service, Acoustic Design

Test Equipment, Engineering Software,
Service, Manufacturing Equipment

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Kramer Electronics USA

USA

Finished Systems, Cable

Kravchenko Audio

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Finished Systems, OEM Speaker Assembly,
Digital Signal Processing

Kurt Mueller GmbH

GERMANY

Speaker Parts

L A T International

USA

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overs & Wiring, Finished Systems

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Test Equipment, Engineering Software

Leadtek Electronics Co Ltd

CHINA

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Liberty AV Solutions

USA

Passive Components, Crossovers & Wiring,
Enclosures & Cabinets, Finished Systems,
Cable

Listen Inc

USA

Test Equipment

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DENMARK

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Enclosure Parts, Licensing

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Cable, Driver Reconciling

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USA

Enclosures & Cabinets, Finished Systems,
Enclosure Parts

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Service

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MAGSYS magnet systeme GmbH

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Test Equipment, Manufacturing Equipment

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SPAIN

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Equipment, Enclosures & Cabinets, Finished
Systems, Cable

Martin Sound Products

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Passive Components, Crossovers & Wir-
ing, Enclosures & Cabinets, Engineering
Software, Finished Systems, Enclosure
Parts, Cable, Driver Reconciling, Digital Signal
Processing

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Finished Systems, OEM Speaker Assembly

Materion Electrofusion

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OEM Speakers & Drivers, Speaker Parts

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Service, Acoustic Design, Licensing

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Passive Components, Crossovers & Wiring,
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Enclosure Parts, Cable, Driver Reconciling,
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Company Inc.

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Assembly, Cable

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NedLab

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Test Equipment, Enclosures & Cabinets,
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& Books

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Manufacturing Equipment

Nordson EFD

USA

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Enclosure Parts

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USA

Speaker Parts, Finished Systems

Sanming Sound
USA

OEM Speakers & Drivers, Finished Systems

Sanus
USA

Enclosures & Cabinets

Scan-Speak A/S
DENMARK

OEM Speakers & Drivers

Scantek Inc
USA

Test Equipment, Engineering Software

SEAS Fabrikker AS
NORWAY

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SG Custom Sound
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Passive Components, Crossovers & Wiring, Finished Systems, Consultants & Designers, Service

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USA

Speaker Parts, Finished Systems

Shiuh Sheng Electronics Co., Ltd.
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Speaker Parts, Engineering Software, Finished Systems, Enclosure Parts

Shogyo International Corp
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Sound Remedy
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Driver Reconing

Sound Sources Technology Inc
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Finished Systems, OEM Speaker Assembly

SpeakerPower Inc.
USA

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Sum R Design & Mfg
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17

18

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21

22

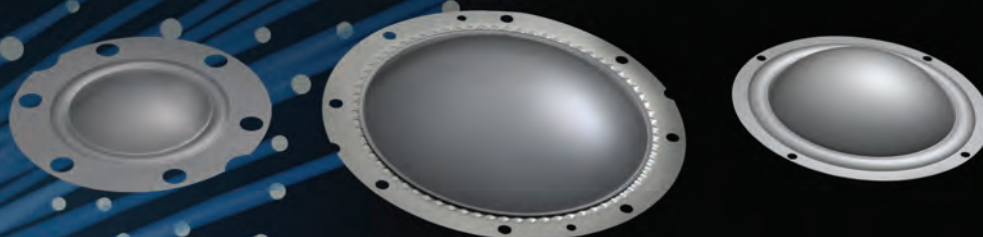
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The Raven Point Source is a ribbon tweeter perfect for use with round woofer cones due to its dome-like 28mm radiation pattern,

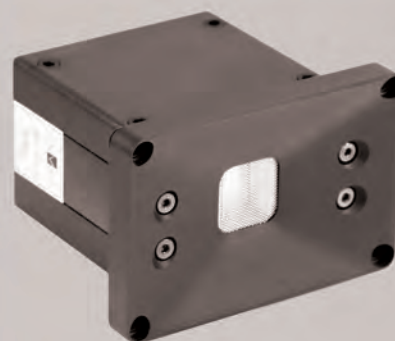
It features a half inch thick cast aluminum face plate with a 150 degree constant directivity wave guide that greatly reduces cabinet edge diffraction and room wall reflections.

The pure aluminum ribbon is 22mm behind the cabinet face for excellent time alignment with a 5.25 or 6.5 inch woofer.

The Point Source has a 250 Hz resonance frequency thanks to a huge rear chamber filled with real wool felt for best possible impulse response and decay.

The waterfall decay and impulse response are excellent!

RAVEN POINT SOURCE



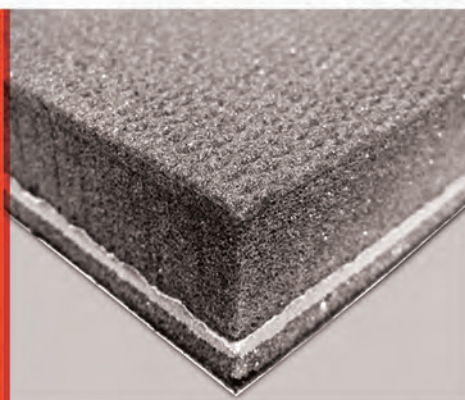
Dampening

Black Hole Five is a 5 layer acoustic damping laminate designed to have the widest possible bandwidth in a 1.25 inch thickness.

It aggressively damps both acoustic resonance inside a cabinet and vibration of the cabinet walls.

It is the ultimate solution for every type of speaker cabinet; vented, sealed, transmission line or Dipole.

BLACKHOLE 5



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AXON True Caps are manufactured in Europe from the finest available European materials. The 250 volt metalized polypropylene is high tension wound on precision Swiss equipment and annealed to minimize microphonics.

True Caps have 5% tolerance centered on the nominal value. Leads are pure copper with tin plating. The sound quality is neutral, open and detailed.

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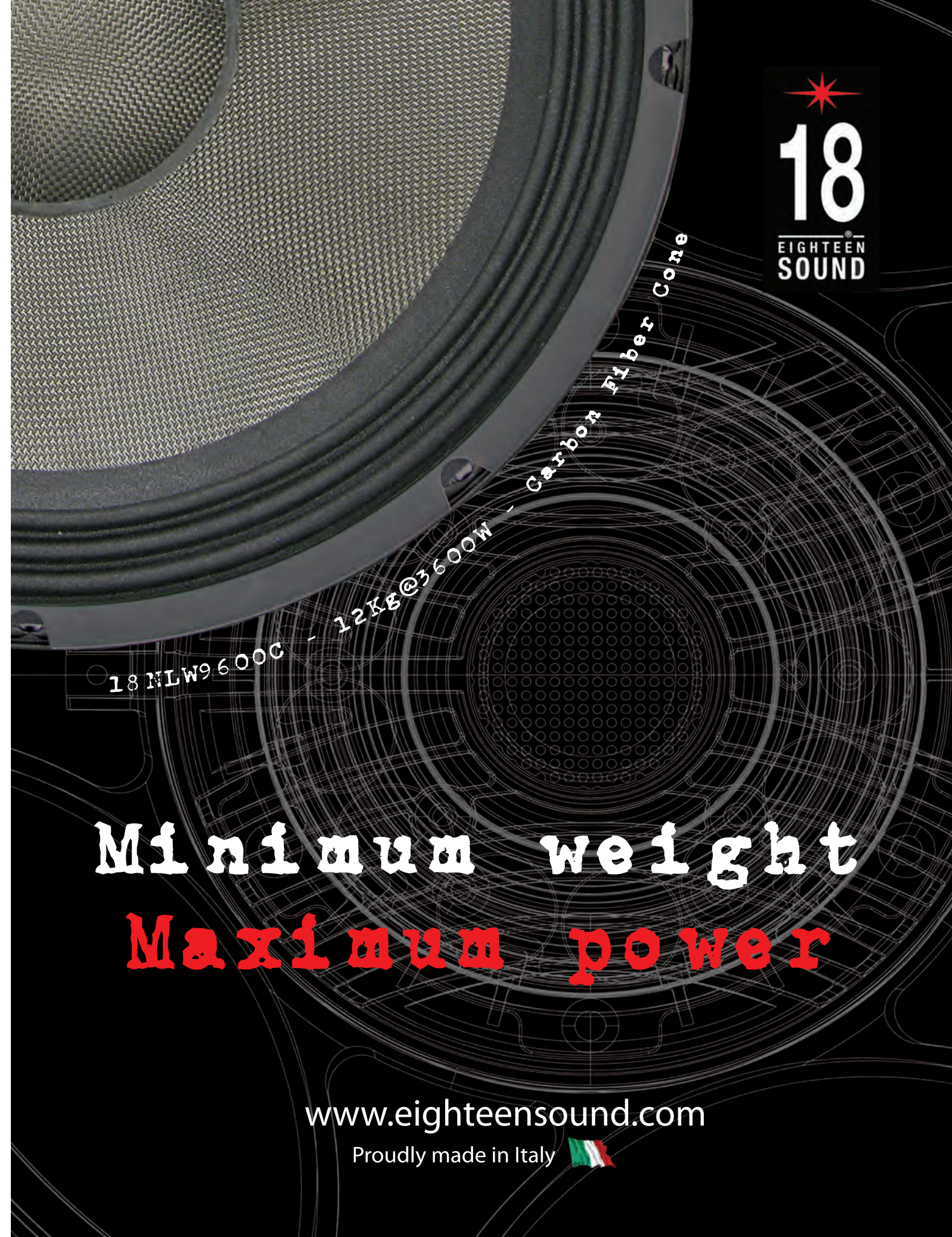

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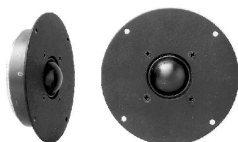
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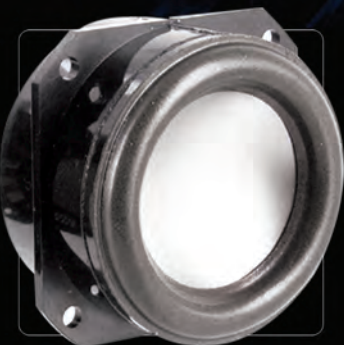
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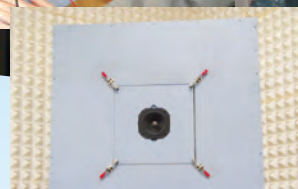
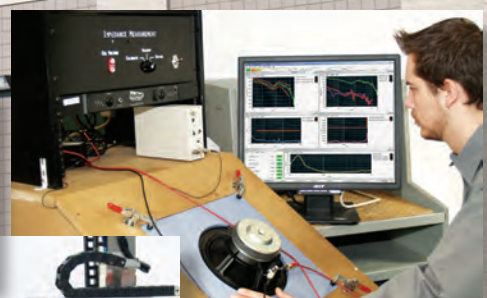
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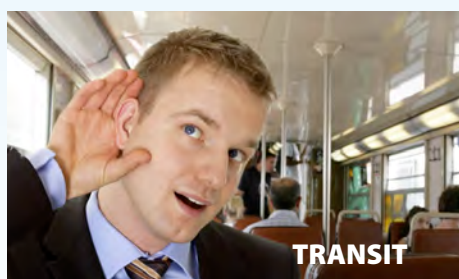
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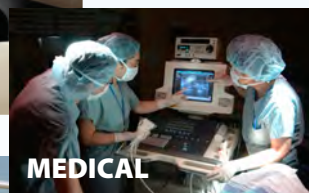
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MC8W-8A
8" Woofer



QC12W-8A
12" Woofer

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The screenshot shows the homepage of the audioXpress OnLine website. The header features the 'audioXpress OnLine' logo. A large black arrow points from the top left towards the center of the page. Overlaid on the image is the text 'VISIT US ONLINE' in large white letters, followed by the website address 'www.audioXpress.com' at the bottom. The website content includes a navigation menu on the left with links like 'Home', 'Magazines', 'Voice Coil', 'Multi Media Manual', 'Directories', 'Loudspeaker Industry Sourcebook', 'World Wide Directory', 'Reference', 'Yellow Pages', 'Classifieds', 'Advertising', 'Audio Marketplace', and 'AudioXpress Links'. The main content area displays 'Current Issues' for 'audioXpress' and 'audioXpress May 2009'. A sidebar on the right lists various articles, including 'Special: Glass Audio Project Section', 'Asian Trade Shift', and 'GR&R'. A small image of the 'audioXpress' magazine cover is also visible.



HF104



HF144



8HX200



12HP1060



15HP1060



18XL1600



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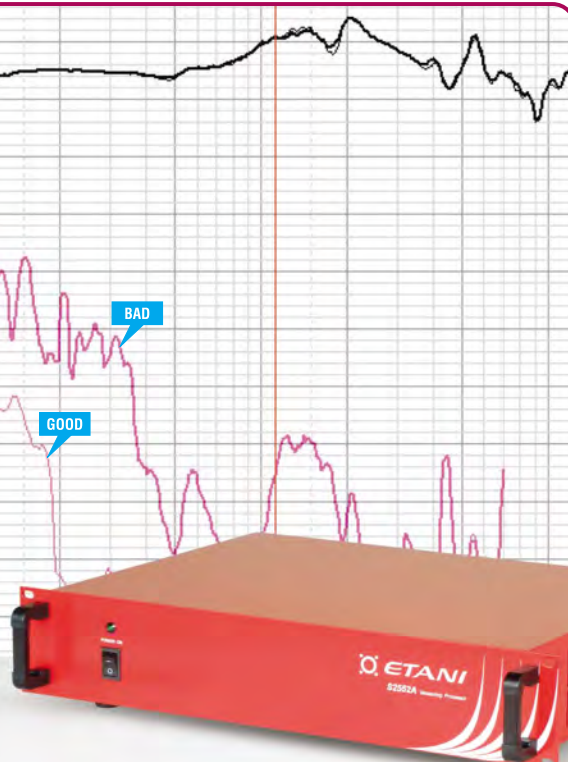
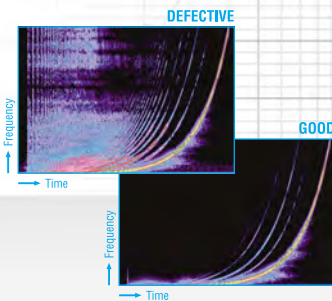
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2011 Loudspeaker Industry Sourcebook

35



A collection of approximately ten circular, metallic, dome-shaped components, likely micro-LEDs or similar semiconductor devices, arranged on a white background. The components vary in size and design, with some featuring a smooth, reflective metallic surface and others having a textured, patterned rim. The central component is a larger, circular device with a prominent, textured, diamond-patterned rim and a highly reflective, metallic dome. Other components are smaller, some with smooth domes and others with textured rims, all appearing to be made of a dark, possibly black, material surrounding the metallic dome. The lighting is bright, creating strong highlights on the metallic surfaces and casting soft shadows.

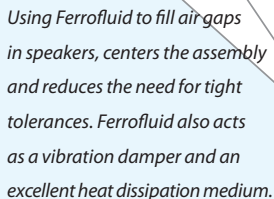
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36

37

2011 Loudspeaker Industry Sourcebook

30 years and millions of speakers later, customers still depend on Ferrotec



39

40

41

-
- The image displays five distinct metal mesh components. On the left, there is a small cylindrical mesh tube with two thin wires protruding from the top. Next to it is a larger cylindrical mesh tube with two green strips attached to its top edge. In the center, there is a smaller cylindrical mesh tube with two thin wires protruding from the top. To the right, there is a larger cylindrical mesh tube with two thin wires protruding from the top. In the foreground, there is a large, flat, circular mesh band with a series of small holes along its inner edge and two thin wires protruding from the center.



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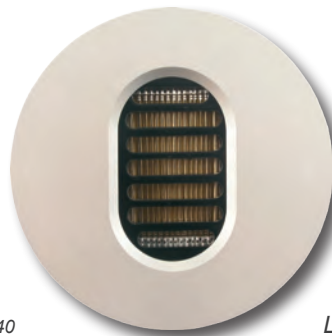
	Passive Components										Wire & Wiring Harnesses		
	Attenuators	Capacitors		Driver Protection Devices	Inductors	Plugs & Jack Dishes		Resistors	Solder	Terminal plates	Transformers	Electronic Crossover	Finished Passive X-over Nets
		Ceramic	Electrolytic Non-Polar			Air Core	Iron Core						
ARGENTINA													
Brel & Hoven-Bach				•		•	•		•	•			•
AUSTRALIA													
Bodzio Software Pty. Ltd.													•
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CANADA													
Accusonic Corp				•	•			•	•	•	•		
Canadian Loudspeaker Corp					•	•		•			•	•	
Creative Sound Solutions				•	•	•	•	•	•	•	•		•
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Solen Electronique Inc	•			•	•	•	•	•	•	•	•		•
Sum R Design & Mfg												•	
VMZ	•	•	•	•	•	•	•	•	•	•			•
CHINA													
American Ally Company													•
Audiostar Electronics Co Ltd				•		•							
DENMARK													
estron a/s													•
Jantzen Audio Denmark		•	•	•	•	•	•	•	•	•	•		•
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GERMANY													
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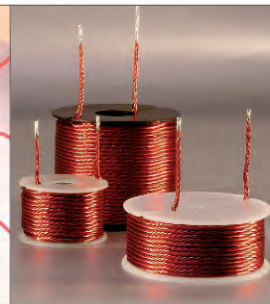
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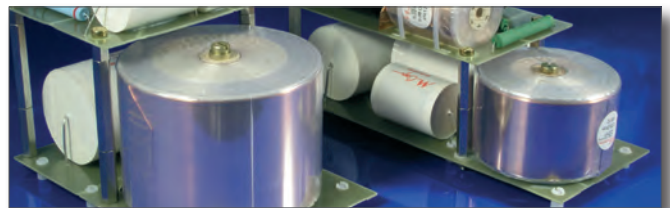


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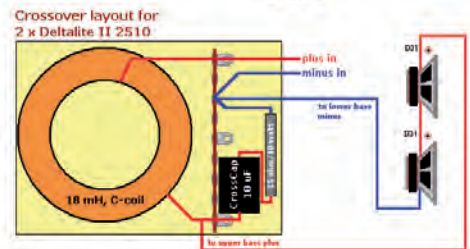
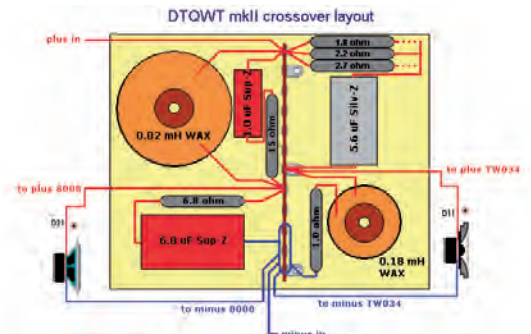
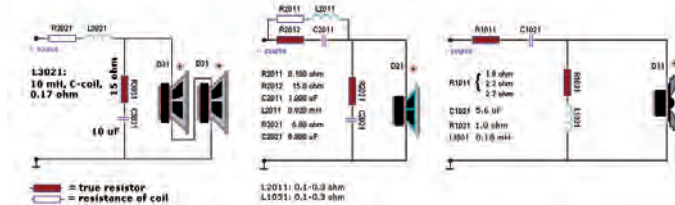
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Jantzen Kit - Best seller

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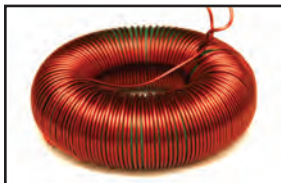
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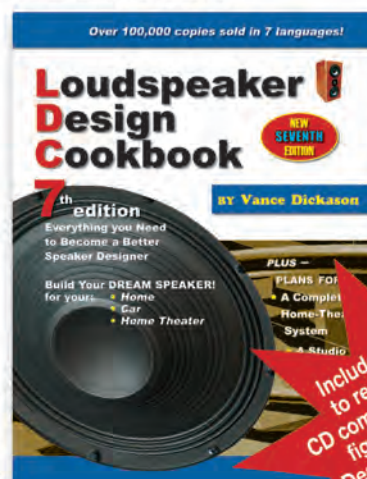
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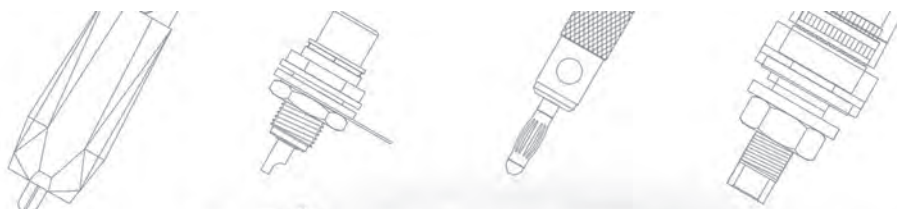
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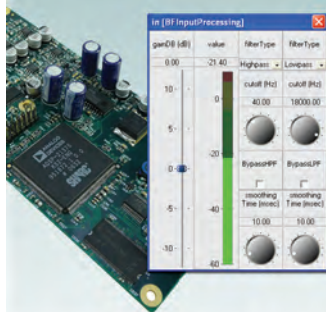
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Professional Audio S n c	•	•
NEW ZEALAND		
Arvus OEM		•
TAIWAN ROC		
Hi-Tech Sound System Co Ltd	•	•
Huey Tung Electronic Co Ltd	•	•
So-Good Enterprise Corp.		•
THAILAND		
Clarasonic	•	•
Grand Inter Products	•	•
UNITED KINGDOM		
DARE Professional Audio	•	•
EuroTec International PLC		•
Mango Electronics		•
USA		
Acoustex Fabrics	•	
Acoustic Development International		•
Acoustic Zen Technologies	•	
Acoustical Solutions, Inc.	•	
Acoustics First Corp	•	
Advanced Electrodynamic Systems		•
AEX Labs		•
Alumapro, Inc.		•
AMC/Weltronics Corp		•
Amplikat		•
AMS Audio Enterprises, Inc.		•
Aurasound Inc		•
Avcoil		•
AVL Systems Inc	•	•
Bamberg Engineering Sound Lab		•
Bogen Communications, Inc.		•
Booker Electronics	•	
CGN Audio Labs		•

	Acoustic Materials	Finished Goods
DBH Loudspeakers	•	•
DECO Systems LLC	•	
Definitive Technology		•
Diamond Case Designs, Inc.		•
Dynavox Electronics Inc		•
Eminence Speaker LLC		•
Episode Audio	•	•
GGEAC America Inc		•
Globalaudiosource.com		•
Globe Plastics, Inc.	•	•
GR Research Inc.	•	•
Hi-Tech Pro Electronics, Inc.		•
Holtz Industries Inc		•
Joma Inc., dba RSA Design	•	•
Kinetic Audio International, Limited		•
KSC Industries		•
Maryland Sound International Holding Co. LLC		•
MISCO/Minneapolis Speaker Company Inc.		•
NedLab	•	
OAP Audio Products	•	•
Orca Design & Mfg Corp		•
Parts Express	•	•
Pinnacle Speakers		•
RBH Sound		•
Renaissance Audio Group		•
Robot Underground	•	•
Rossman Audio LLC		•
SoCal Sound		•
Sonic Boundaries (SB Acoustics)	•	•
Sound Sources Technology Inc		•
Speaker Art		•
Speakerlab		•
Tone Tubby		•
United Speaker Systems		•
Vidsonix Design Works		•
WhisperRoom, Inc.	•	
Wired 4 Sound		•

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MANUFACTURING EQUIPMENT

	Adhesive Dispensers	Lead Out Wire Termination Curing Ovens	Magnetizer/Demagnetizer Production Line Equipment	Ultrasonic Assembly Equipment
CANADA				
VMZ				•
CHINA				
Audiostar Electronics Co Ltd			•	•
GERMANY				
Axel Joost Elektronik				•
Klippel GmbH				•
MAGSYS magnet systeme GmbH				•
RS Audio Vertriebsgesellschaft GmbH				• •
INDONESIA				
Sinar Baya Electric	•	•	•	• •
ITALY				
Eventus Audio S.r.l.	•			•
JAPAN				
Furutech Co Ltd			•	•
TAIWAN ROC				
Hi-Tech Sound System Co Ltd	•	•	•	• • •

	Adhesive Dispensers	Lead Out Wire Termination Curing Ovens	Magnetizer/Demagnetizer Production Line Equipment	Ultrasonic Assembly Equipment
THAILAND				
Clarasonic			•	
Grand Inter Products				• •
UNITED KINGDOM				
Permabond Engineering Adhesives Ltd.	•			
USA				
ACO Pacific Inc				•
Acoustic Design				•
Booker Electronics	•	•	•	• •
Bruel				•
DBH Loudspeakers	•			
Dynavox Electronics Inc				•
Eraser Company Inc				•
Fisnar	•			•
Fluid Metering, Inc.	•			•
Graco Inc	•			
Hernon Manufacturing	•			
HMC Electronics	•		•	• •
Nordson Corporation	•			
Nordson EFD	•			•

DIGITAL SIGNAL PROCESSING

AUSTRALIA

Bodzio Software Pty. Ltd.
Deqx Pty Ltd

CANADA

Solen Electronique Inc
VMZ

FRANCE

SIEA

GERMANY

Audio Technology Engineering
Axel Joost Elektronik

JAPAN

Etani Electronics Co. Ltd.

THAILAND

Grand Inter Products

USA

AEX Labs
Booker Electronics
CGN Audio Labs
Danville Signal Processing Inc
DBH Loudspeakers
Excelsior Audio Design & Services
Globalaudiosource.com
Globe Audio Design Inc.
KSC Industries

Martin Sound Products
Parts Express
Robot Underground
Sanders Sound Systems
Selah Audio

CANADA

VMZ

CHINA

Ningbo Impala Electronics Co Ltd

GERMANY

Great Vintage Loudspeakers

RS Audio Vertriebsgesellschaft GmbH

ISRAEL

R Hausmann Service

UNITED KINGDOM

DARE Professional Audio

UKRAINE

Magnet Ltd.

USA

A Brown Soun

Booker Electronics

Dynavox Electronics Inc

HUMAN Speakers

Kinetic Audio International, Limited

Loudspeakers Plus

Martin Sound Products

Midwest Speaker Corporation

NCA Laboratories

NEWFOAM.COM

OAP Audio Products

Parts Express

PR Audio

Robot Underground

Simply Speakers

Sir Round Sound

SoCal Sound

Sound Remedy

SERVICE

ARGENTINA

Brel & Hoven-Bach

CANADA

Aksys Labs

Solen Electronique Inc

Vintec Acoustics

CHINA

Ningbo Impala Electronics Co Ltd

Phase Group

GERMANY

Audio Technology Engineering

Klippel GmbH

RS Audio Vertriebsgesellschaft GmbH

INDIA

Power Electronics & Technologies

IRELAND

CKSpeakers.com

ISRAEL

R Hausmann Service

TAIWAN ROC

Hi-Tech Sound System Co Ltd

UK

DARE Professional Audio

Mango Electronics

UKRAINE

Magnet Ltd.

USA

A Brown Soun

Bang-Campbell Assoc.

Booker Electronics

Bruel

DBH Loudspeakers

Electro-Acoustic Testing Co (ETC)

Engineered Fibers Technology

Globe Audio Design Inc.

GR Research Inc.

HUMAN Speakers

Kinetic Audio International, Limited

Lucid Acoustics

Menlo Scientific Ltd.

Midwest Speaker Corporation

NedLab

Pink Star Industries

PR Audio

Robot Underground

SG Custom Sound

Sir Round Sound

SoCal Sound

Synergetic Audio Concepts

The Speaker Clinic

Tone Tubby

Wired 4 Sound

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CANADA

Vintec Acoustics

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DARE Professional Audio

USA

AEX Labs

ALMA International

CANADA

Solen Electronique Inc

VMZ

CHINA

Ningbo Impala Electronics Co Ltd

USA

Amplikat

Audio Amateur Inc

Manual Man

Old Colony Sound Lab

Robot Underground

True Audio

ARGENTINA

Brel & Hoven-Bach

CHINA

Ningbo Impala Electronics Co Ltd

GERMANY

Audio Technology Engineering

Great Vintage Loudspeakers

Reckhorn Ltd.

ITALY

ATD

UNITED KINGDOM

DARE Professional Audio

USA

Acoustic Development International

AEX Labs

Dynavox Electronics Inc

Episode Audio

Loudspeaker Components, LLC

Menlo Scientific Ltd.

Planot, LLC

Redrock Acoustics

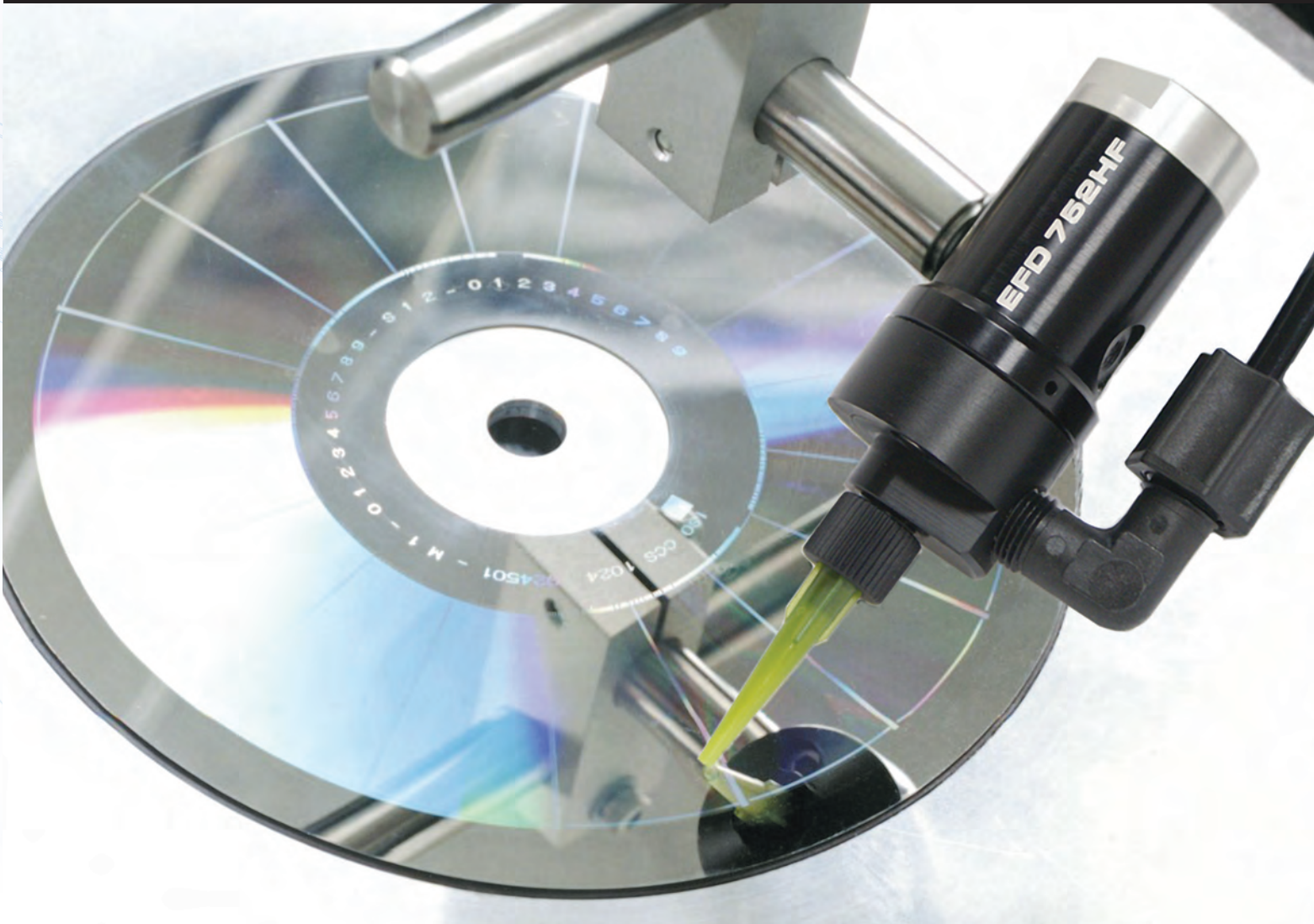
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The logo consists of a blue stylized wave or swoosh above the word "Nordson" in a bold, blue, sans-serif font. Below "Nordson" is the word "EFD" in a smaller, blue, sans-serif font.

[THE TONE IS IN THE DETAILS.]



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