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Volume 3, Number 1

DYNAMIC SOLUTIONS OFFERS REPLACEMENT AMPLIFIERS

WITH THREE-YEAR PARTS WARRANTY!!

- Efficient and Robust Design
- State-of-the-art IGBT technology
- Custom built to meet the current and voltage requirements of ANY shaker
- ALL AIR-COOLED Digital Power Amps from 3kva to 300kva

I can have you back up and running in no time!



CONTACT US FOR ALL YOUR SHAKER REPAIR & SERVICE NEEDS
For ALL Shaker Makes and Models

World's LARGEST All Air-Cooled Shaker

On August 1, 2003 Dynamic Solutions announced the official release of their new **16,000 force-pounds, 100% ALL AIR-COOLED** electro-dynamic shaker system.

Efficiently powered by their SA70, 70 kva switching amplifier and completely eliminating the need for water towers, heat exchangers and chillers, the new DS-16000/17-70 raises the bar and sets a new industry performance standard for equipment in this force range.

Capable of full 2" peak-to-peak displacement, the DS-16000 boasts a sine sweep velocity of 71 inches per second and over a ton of internal payload support (2200 lb.).

The DS-16000 comes standard with a cooling blowing silencer that significantly reduces the ambient noise generated by the system. The 17.32" diameter armature, designed using Dynamic Solution's proprietary process, has a high fundamental resonance of 2350 Hz (nominal) exceeding competitor's

specifications by as much as 15%.

Economical to operate, competitively priced and backed by Dynamic Solutions signature **THREE YEARS PARTS WARRANTY**, the DS-16000 represents the largest completely air-cooled shaker system in the world.



WE'RE THE AUTOMOTIVE TESTING SOLUTION!

Dynamic Solutions' shaker systems provide a perfect solution for the automotive vibration test market. Economical to own and operate and always 100% AIR cooled, DS shakers offer the best VALUE available in today's electro-dynamic shaker market. Plus, Dynamic Solutions is the only

company to include a cooling blower silencer as standard equipment with all shaker systems requiring cooling blowers 5hp and up. If you have an automotive test application – we have the solution. But, don't take our word for it - call today to arrange to visit our Detroit area demo center and see for yourself!





Dynamic Solutions 120kva
Replacement Amplifier for
an
Unholtz-Dickie T-1000

THE BEST REPLACEMENT AMPLIFIERS

Dynamic Solutions digital switching amplifiers can be successfully mated with your existing shaker to improve efficiency and in most cases improve the overall performance ratings of your shaker system.

Replacement amplifiers are thoughtfully configured to meet the precise current and voltage requirements of your existing shaker resulting in reliable full force Sinusoidal and Random operation.

Our amplifiers incorporate the latest in power efficient digital technology using IGBT devices.

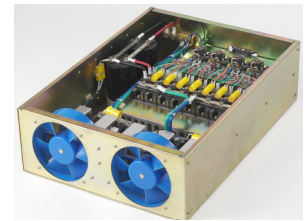
IGBT's provide substantial advantages in terms of peak current ratings, which result in increased reliability for random and shock test applications.

100% air-cooled, Dynamic Solutions amplifiers range in size from 3 to 300 kva and have multiple safety features and interlocks, a compact design, integral cooling and are compliant with all international safety regulations.

In fact, our amplifier may well be the last amplifier you will ever need to buy! Dynamic Solutions' amplifiers use only the finest quality components

such as Mitsubishi™ and Seimans™ and are manufactured in our state-of-the-art ISO-9001 factory in Shanghai to guarantee you the highest possible quality at the lowest possible prices.

Utilizing one of the most robust and elegant designs ever, the Dynamic Solutions' amplifiers are backed by our signature **THREE-YEAR PARTS WARRANTY** with spare parts available from domestic inventory.



10kva IGBT Power
Module

New Factory is State-of-the-Art

"So, where's this stuff from anyway?" Well, since you asked... Dynamic Solutions' shaker systems are built in a new 6000 square meter facility located in the new Suzhou High Tech zone of Shanghai.

Recently opened in July of 2003 the new multi-story office and engineering building are stylish and completely outfitted with modern new equipment. The meeting rooms, conference rooms and classroom facilities are well furnished and are equipped with audio and

video capabilities. The manufacturing plant next door is equally impressive. Extremely clean and organized to methodically and sequentially build and test products from order to shipment, the factory maintains the very highest quality standards. The factory is ISO 9000 certified and all products meet or exceed IEC standards. The factory currently employs more than 120 people including the best vibration and environmental test engineers in China and

perhaps the world. Their innovative designs offer advanced features and unsurpassed reliability. That is why Dynamic Solutions sells the only shakers in the world backed by a full **THREE-YEAR PARTS WARRANTY!** "Where are they built?" you ask... Well, now you know. Our shakers are built in what is possibly the most modern shaker factory in the world today!



"China's education system has met rising demand for skilled workers...37% of [university] graduates in 2000 were engineers, compared with about 6% in the U.S." (WSJ March 14, 2002)

Updated Model Information

October 2004

Model No.	Freq. Range (Hz)	Rated SINE Force		Rated RANDOM Force		Max. Displ. Peak-Peak		Max. Accel.	Max. Velocity	
		kgf	lbf	kgf	lbf	mm	in		m/s	in/s
DSS-55VH/4-200	5-5000	25	55			10	.39	20	1.2	47
DSS-220VH/6-1	5-4500	100	220	82	180	25	1.0	41	1.2	47
DSS-330VH/6-2	5-4500	153	337	150	270	25	1.0	61	1.2	47
DSS-440VH/6-2	5-4000	204	449	163	360	25	1.0	82	1.6	63
DSS-660VH/6-3	5-4000	306	674	245	539	25	1.0	102	1.6	63
DSS-1300VH/8-6	5-3000	612	1348	489	1079	25	1.0	102	1.6	63
DS-440VH/9-2	2-3000	204	449	163	360	40	1.6	25	1.4	55
DS-660VH/9-3	3-3000	306	674	214	472	40	1.6	36	1.4	55
DS-1300VH/9-6	2-2000	612	1348	428	944	51	2.0	51	1.4	55
DS-2200VH/8-10	5-3000	1019	2247	815	1798	51	2.0	102	1.8	71
DS-3300VH/12-20	5-3000	1529	3370	1223	2697	51	2.0	72	1.8	71
DS-4400VH/12-25	5-3000	2038	4494	1834	4045	51	2.0	102	2.0	79
DS-6600VH/14-30	5-3000	3057	6742	3057	6742	51	2.0	102	1.8	71
DS-6600VH/12-30	5-3000	3057	6742	3057	6742	51	2.0	102	1.8	71
DS-9000VH/17-40	5-3000	4077	8989	4077	8989	51	2.0	92	1.8	71
DS-12000VH/17-50	5-2800	5460	12012	5460	12012	51	2.0	109	1.8	71
DS-13000VH/17-60	5-2800	6115	13483	5460	12012	51	2.0	102	1.8	71
DS-16000VH/17-70	5-2800	7256	16000	6349	14000	51	2.0	102	1.8	71

Model No.	Arm. Res. (Hz) Nom.	Armature Weight		Armature Diameter		Max. Static Payload		Isolation Freq.	Shaker Weight	
		kgs	lbs	mm	in	kgs	lbs		kgs	lbs
DSS-55VH/4-200	5800	1.25	2.75	100	3.93	2.5	5.5		30	66
DSS-220VH/6-1	3400	2.5	5.5	150	5.9	70	154	3	550	1212
DSS-330VH/6-2	3400	2.5	5.5	150	5.9	70	154	3	650	1430
DSS-440VH/6-2	3400	2.5	5.5	150	5.9	70	154	3	650	1430
DSS-660VH/6-3	2900	3.0	6.6	150	5.9	120	267	3	720	1584
DSS-1300VH/8-6	3300	6.0	13.2	200	7.87	200	441	3	930	2046
DS-440VH/9-2	2700	8.0	17.6	230	9.05	140	309	3	720	1588
DS-660VH/9-3	2700	8.5	18.7	230	9.05	140	309	3	720	1588
DS-1300VH/9-6	2800	12	26.4	230	9.05	300	662	3	1010	2227
DS-2200VH/8-10	2400	10	22	200	7.87	150	330	2.5	1100	2425
DS-3300VH/12-20	2600	20	44	320	12.59	300	662	2.5	1600	3528
DS-4400VH/12-25	2600	20	44	320	12.59	300	662	2.5	1600	3528
DS-6600VH/14-30	2400	36	80	370	14.56	500	1102	2.5	2200	4851
DS-6600VH/12-30	2300	30	66	320	12.59	500	1102	2.5	2200	4851
DS-9000VH/17-40	2400	44	96.8	440	17.32	800	1764	2.5	3500	7717
DS-12000VH/17-50	2400	50	110	440	17.32	800	1764	2.5	4500	9900
DS-13000VH/17-60	2400	60	132	440	17.32	800	1764	2.5	4500	9900
DS-16000VH/17-70	2350	66	145	440	17.32	1000	2205	2.5	4500	9900



Used Shakers that are CHERRIES – not lemons

Dynamic Solutions offers the best values in the vibration equipment market today. In addition to our line of competitively priced new electro-dynamic shaker systems, we also offer expertly reconditioned shaker systems and hybrid systems (that use a mix of new and used components) to help you to get the most out of your capital equipment budget.

Dynamic Solutions maintains an inventory of the very finest previously owned shaker systems – all sold with our “buy with confidence” 90 days parts and labor warranty.

Dynamic Solutions works hard to insure that every

shaker system we sell has been meticulously reconditioned and tested - whether it comes directly from our inventory or from someone else's. Dynamic Solutions works closely with the top used equipment dealers in the country, carefully monitoring their quality and customer service to make sure the system we ship meets or exceeds the specifications as quoted. Every system we sell must endure a comprehensive point-by-point performance verification and cosmetic inspection prior to shipment.

Dynamic Solutions will always accept your order 100% contingent upon

your approval of a pre-shipment inspection and performance verification test. If we don't pass – you don't pay!

Typically a used shaker system costs a fraction of the price of a new system, which means more force for your dollar. So, next time you think you can't afford what you need – give us a call. You might just be surprised how far we can stretch your dollar!



Used Ling 395 Shaker with Stand Alone Slip Table

HAVE AN OLD SHAKER THAT NO LONGER MEETS YOUR NEEDS?

FIX IT... We use the best field service engineers in the world. Our technicians have extensive, hands-on experience repairing all major brands of shakers and amplifiers. We can have someone on-site, usually within 72 hours. **Call us.**

UPGRADE-IT... Need more shaker? Maybe not. Shakers with a 1" stroke can often be rewound to provide a full 2" displacement. Replacement Amplifiers can greatly improve a system's efficiency and often its rated force, too! **Call us.**

TRADE IT IN!! Still think a new shaker is the best solution? Trade-in your surplus equipment for a generous discount on your purchase of a NEW or Reconditioned Shaker that better meets your current applications. **Call us.**



We're on the Web!

See us at:

www.dynsolusa.com

e-mail:

dynsolusa@dynsolusa.com

You have our commitment...

Customer Satisfaction Guaranteed

Our years of experience have established us as responsive and committed to our customer's satisfaction. Your phone calls and inquiries will be responded to promptly – both before and after you purchase a system – Guaranteed!

CONTACT DYNAMIC SOLUTIONS TODAY!!!

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