



SHO Woofer

SHO series

With the SHO Series, Wharfedale Pro made the massive commitment to start with blank paper and build a whole new generation of transducers from the ground up. The low frequency transducers are the most advanced designs in professional audio today.

A new breed of woofer

What the industry refers to as a 15" woofer typically has a radiating area (cone) of about 15 1/4". Wharfedale Pro has managed to squeeze a 16 1/2" cone into the SHO 15" models, with equivalent area increases in the 12" and 18" models. That means over 17% more radiating area - and 17% more bass power - in the same physical form factor.

A larger coil

A bigger coil means faster movement and tighter bass. Our competitors settle for 4" (100mm) voice coils. SHO Low Frequency Transducers use 5" (127mm) voice coils. Twenty five percent larger - they can play louder and handle more power without damage.

Superior active cooling system

Electricity flowing through the voice coil generates heat that must be dissipated. Standard solutions include cooling slots, vanes and exotic materials but none as elegant as the unique 'Thermal Forest' in the SHO Series. Directly coupled to the metal around the magnetic gap, this system transfers voice coil heat to a highly conductive aluminium ring and out through 196 cylindrical "cooling towers".

Ultra-tight suspension for maximum linear output - the dual spider

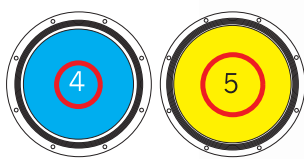
SHO low frequency transducers use a dual spider that's 50% wider than anyone else's. These two spiders act like dual bearings, handling the extra stresses of high output whilst working together with the cooling system to pump more air through the heart of the transducer. The extra benefit of these extra wide dual spiders is longer linear cone travel - up to two full inches - with no reduction in the cone area unlike our competitors.

A completely new HF compression driver

SHO Series uses a brand new large format compression driver design. A robust and lightweight Neodymium Iron Boron (it's the most powerful magnetic alloy on the planet and it weighs 70% less than standard materials) magnet structure works with a 3 1/4" diameter voice coil composed of copper clad windings on a heat resistant Kevlar® frame. This drives an 82.6mm pure Titanium diaphragm with a close spaced, four - slit phase plug that assures high acoustic damping and silky smooth high frequency output.



H64 Horn



Voice Coils

The SHO Series features proprietary H64 rotatable, H96 rotatable and H94 constant directivity waveguides,



Dual Spider



Thermal forest



compression Driver

SH2564

SH1564

SH1294M

SH1500

SH1264

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SHO model:	SH1264	SH1296	SH1294M	SH2264	SH2296	SH1564	SH1596
Frequency Response	60Hz-20kHz	60Hz-20kHz	65Hz-20kHz	60Hz-20kHz	60Hz-20kHz	50Hz-20kHz	50Hz-20kHz
Coverage Pattern	60 x 40	90 x 60	90 x 40	60 x 40	90 x 60	60 x 40	90 x 60
Crossover Frequency	1500Hz	1500Hz	1500Hz	1500Hz	1500Hz	1500Hz	1500Hz
Power rating							
Cont	900 W	900 W	900 W	1800 W	1800 W	900 W	900 W
Prog	1800 W	1800 W	1800 W	3600W	3600W	1800 W	1800 W
Peak	3600 W	3600 W	3600 W	7200 W	7200 W	3600 W	3600 W
Sensitivity (1w@1m)	96 dB	96 dB	96 dB	98dB	98dB	96 dB	96 dB
Low Frequency Driver	1x12"	1x12"	1x12"	2 x 12"	2 x 12"	1x15"	1x15"
Voice Coil Size	5" voice coil	5" voice coil	5" voice coil	5" voice coils	5" voice coils	5" voice coil	5" voice coil
	NdFeB	NdFeB	NdFeB	NdFeB	NdFeB	NdFeB	NdFeB
High Frequency Driver	large format	large format	large format	large format	large format	large format	large format
	3.25" coil	3.25" coil	3.25" coil	3.25" coil	3.25" coil	3.25" coil	3.25" coil
	NdFeB	NdFeB	NdFeB	NdFeB	NdFeB	NdFeB	NdFeB
Nominal Impedance	8 ohms	8 ohms	8 ohms	4 ohms	4 ohms	8 ohms	8 ohms
Suspension Points							
# of M10 Inserts	22	22	0	22	22	22	22
Dimensions (H x W x D) mm	555 x 375 x 425	555 x 375 x 425	570 x 375 x 332	962 x 375 x 425	962 x 375 x 425	750 x 438 x 440	750 x 438 x 440
Construction Material	18mm plywood	18mm plywood	18mm plywood	18mm plywood	18mm plywood	18mm plywood	18mm plywood
Finish	White/Black Paint	White/Black Paint	White/Black Paint	White/Black Paint	White/Black Paint	White/Black Paint	White/Black Paint
Handle Quantity	2	2	1	4	4	2	2
Net weight(kg)	30kg	30kg	24.5kg	49kg	49kg	37.5kg	37.5kg
Gross weight(kg)	34.8	34.8	29.1	54.9	55.8	43	43.9

SHO model:	SH1594M	SH2564	SH2596	SH1500	SH1800	SH2800
Frequency Response	50Hz-20kHz	50Hz-20kHz	50Hz-20kHz	50Hz-1.5kHz	45Hz-1.5kHz	45Hz-1.5kHz
Coverage Pattern	90 x 40	60 x 40	90 x 60	N/A	N/A	N/A
Crossover Frequency	1500Hz	1500Hz	1500Hz	150Hz max	150Hz max	150Hz max
Power rating						
Cont	900 W	1800 W	1800 W	900 W	900 W	1800 W
Prog	1800 W	3600 W	3600 W	1800 W	1800 W	3600 W
Peak	3600 W	7200 W	7200 W	3600 W	3600 W	7200W
Sensitivity (1w@1m)	96 dB	99 dB	99 dB	96 dB	95 dB	98dB
Low Frequency Driver	1x15"	2x15"	2x15"	1x15"	1x18"	2x18"
Voice Coil Size	5" voice coil	5" voice coils	5" voice coils	5" voice coil	5" voice coil	5" voice coils
	NdFeB	NdFeB	NdFeB	NdFeB	NdFeB	NdFeB
High Frequency Driver	large format	large format	large format	N/A	N/A	N/A
	3.25" coil	3.25" coil	3.25" coil	N/A	N/A	N/A
	NdFeB	NdFeB	NdFeB	N/A	N/A	N/A
Nominal Impedance	8 ohms	4 ohms	4 ohms	8 ohms	8 ohms	4 ohms
Suspension Points						
# of M10 Inserts	0	22	20	0	0	0
Dimensions (H x W x D)						
mm	671x438x345	1166 x 438 x 440	1166 x 438 x 440	456 x 559 x 660	532 x 641 x 822	601 x 1030 x 870
Construction Material	18mm plywood	18mm plywood	18mm plywood	18mm plywood	18mm plywood	18mm plywood
Finish	White/Black Paint	White/Black Paint	White/Black Paint	Black Paint	Black Paint	Black Paint
Handle Quantity	1	4	4	4	4	6
Net weight(kg)	37.5kg	54kg	54kg	36.5kg	48kg	84kg
Gross weight(kg)	43	61	61.9	42.4	54.2	92

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