

FEATURES

- Precision gain calibration standard
- Robust welded mechanical design
- Compliant with NRL-4433 standard
- Linear polarization

DESCRIPTION

NSI-MI Technologies' Standard Gain Horns (ANT-SGH) are used in antenna test range applications, and have been designed to deliver accurate and reliable antenna gain measurements. The horns are available to cover the frequency range from 0.35 to 170 GHz. They are plated prior to painting to prevent corrosion. NRL curves for peak gain are provided with each antenna.

AVAILABLE ADD-ONS

- Gain and pattern calibration
- Travel and storage case
- Coax-to-Waveguide Adapter (ANT-CWA)
- Absorber collar

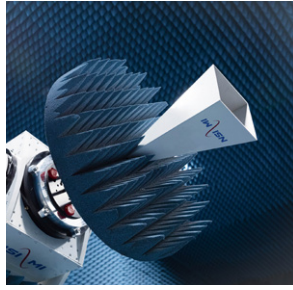
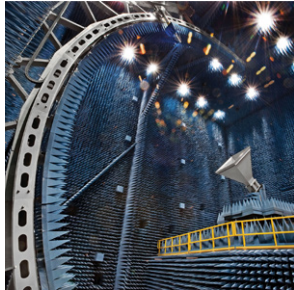
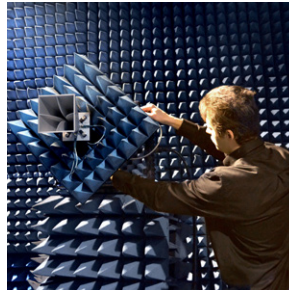
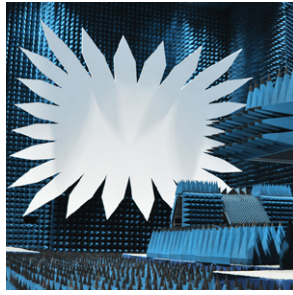
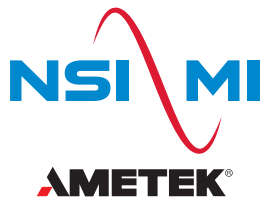
INCLUDES

- ANT-SGH Standard Gain Horn
- Naval Research Laboratory (NRL) curve data
- User manual

SPECIFICATIONS

Model	Frequency Range (GHz)	Material	Waveguide Type	Nominal Gain (dBi)	Weight kg (lb)
ANT-SGH-0.32-0.49-RS ⁽¹⁾	0.32 - 0.49	Aluminum	WR-2300	10.2	36 (79)
ANT-SGH-0.32-0.49	0.32 - 0.49	Aluminum	WR-2300	16.0	106 (234)
ANT-SGH-0.35-0.53-RS ⁽¹⁾	0.35 - 0.53	Aluminum	WR-2100	10.1	28 (62)
ANT-SGH-0.35-0.53	0.35 - 0.53	Aluminum	WR-2100	16.3	95 (210)
ANT-SGH-0.41-0.63-RS ⁽¹⁾	0.41 - 0.625	Aluminum	WR-1800	10.0	17 (38)
ANT-SGH-0.41-0.63	0.41 - 0.625	Aluminum	WR-1800	15.9	66 (145)
ANT-SGH-0.49-0.75-RS ⁽¹⁾	0.49 - 0.75	Aluminum	WR-1500	10.2	14 (31)
ANT-SGH-0.49-0.75	0.49 - 0.75	Aluminum	WR-1500	15.8	45 (100)
ANT-SGH-0.64-0.96	0.64 - 0.96	Aluminum	WR-1150	15.9	31 (68)
ANT-SGH-0.75-1.12	0.75 - 1.12	Aluminum	WR-975	13.9	13 (28)
ANT-SGH-0.96-1.45	0.96 - 1.45	Aluminum	WR-770	15.1	7 (15)
ANT-SGH-1.12-1.7	1.12 - 1.70	Aluminum	WR-650	15.9	5.4 (12)
ANT-SGH-1.45-2.2	1.45 - 2.20	Aluminum	WR-510	15.8	3.6 (8)
ANT-SGH-1.7-2.6	1.7 - 2.6	Aluminum	WR-430	16.1	2.5 (5.6)
ANT-SGH-2.2-3.3	2.2 - 3.3	Aluminum	WR-340	15.8	1.8 (4)
ANT-SGH-2.6-3.95	2.60 - 3.95	Aluminum	WR-284	18.5	2.5 (5.5)
ANT-SGH-3.3-4.9	3.3 - 4.9	Aluminum	WR-229	18.4	1.5 (3.2)
ANT-SGH-3.95-5.85	3.95 - 5.85	Aluminum	WR-187	18.6	1.1 (2.5)
ANT-SGH-4.9-7.05	4.90 - 7.05	Aluminum	WR-159	18.3	0.8 (1.7)
ANT-SGH-5.85-8.2	5.85 - 8.20	Aluminum	WR-137	22.6	2.3 (5)
ANT-SGH-7.05-10	7.05 - 10.00	Aluminum	WR-112	18.7	0.9 (0.4)
ANT-SGH-8.2-12.4	8.2 - 12.4	Aluminum	WR-90	22.4	1.0 (2.3)
ANT-SGH-10-15	10.0 - 15.0	Aluminum	WR-75	24.4	1.2 (2.6)
ANT-SGH-12.4-18	12.4 - 18.0	Aluminum	WR-62	24.6	0.6 (1.4)
ANT-SGH-15-22	15.0 - 22.0	Aluminum	WR-51	24.4	2.7 (1.2)
ANT-SGH-18-26.5	18.0 - 26.5	Aluminum	WR-42	24.6	0.7 (1.5)
ANT-SGH-22-33	22.0 - 33.0	Aluminum	WR-34	24.4	0.4 (0.9)
ANT-SGH-26.5-40	26.5 - 40.0	Aluminum	WR-28	24.5	0.3 (0.6)
ANT-SGH-33-50	33.0 - 50.0	Aluminum	WR-22	24.5	0.2 (0.4)
ANT-SGH-40-60	40.0 - 60.0	Gold-Plated Brass	WR-19	24.4	0.2 (0.4)
ANT-SGH-50-75	50.0 - 75.0	Gold-Plated Brass	WR-15	24.5	0.1 (0.2)
ANT-SGH-60-90	60.0 - 90.0	Gold-Plated Brass	WR-12	24.4	0.1 (0.2)
ANT-SGH-75-110	75.0 - 110.0	Gold-Plated Brass	WR-10	24.5	0.05 (0.1)
ANT-SGH-90-140	90.0 - 140.0	Gold-Plated Brass	WR-8	24.5	0.05 (0.1)
ANT-SGH-110-170	110.0 - 170.0	Gold-Plated Brass	WR-7	24.5	0.05 (0.1)

(1) RS: reduced size horn with lower gain



Test
with
Confidence

LOCATIONS

1125 Satellite Blvd., Suite 100
Atlanta, Georgia 30024-4629
USA

+1 678 475 8300

19730 Magellan Drive
Torrance, CA 90502-1104
USA

+1 310 525 7000

Unit 51 Harley Road
Sheffield, S11 9SE
UK

+44 7493 235224

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Our full range of standard products and custom-designed systems are backed by our longstanding commitment to precision-engineered accuracy, reliability, and lasting performance. We provide the right solution for every RF measurement need and our worldwide network of service professionals are always available to offer support.

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