

# Bi-Directional Reentrant Horn Loudspeaker

## Model BDT30A



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### Description

The BDT30A is a compact loudspeaker designed for one- or two-way sound and communication systems. Ideal for use in industrial plants, warehouses, schools, construction sites, transportation terminals, and recreational areas.

Speaker assembly required.

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### Features

- Twin reentrant horns for bi-directional projection
- High intelligibility and efficiency
- Ideal for both one-way and talkback paging applications
- Weatherproof
- Sturdy, all-metal construction
- 30 watts max. at 70V operation or 15 watts max at 25V operation
- Tap settings for 70V: 30, 15, 7.5, 3.7, 1.8 watts; for 25V: 15, 7.5, 3.7, 1.8 watts
- Rotary tap impedance selector switch
- Screw terminals make installation fast and easy
- For indoor and outdoor use
- Uniquely designed all-purpose mounting bracket for simple installation
- Self-aligning, field-replaceable diaphragm for easy maintenance
- Limited lifetime warranty
- Mountable to I-beam flange using Bogen's BC1 Beam Clamp (sold separately)
- Mountable to electrical box using Bogen's HSES10 mounting strap (sold separately)
- Terminal Cover (TCSPT1) allows connection of conduit fittings to horn speakers (sold separately)

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**Technical Specifications**

<b>Power Rating (RMS):</b>	30 watts continuous; 40 watts equalized					
<b>Frequency Response:</b>	225 Hz to 14 kHz					
<b>Impedance:</b>	25/70 volts					
<b>Sound Pressure Level:</b>	121 dB @ four feet on axis with 30 watt input @ 1000 Hz, each horn					
<b>Dispersion:</b>	100° each horn					
<b>Sensitivity as Microphone:</b>	-22 dBm [Ref: 10 dynes/cm <sup>2</sup> ]					
<b>Dimensions:</b>	9-5/8" Diameter (each horn) x 12-1/8" D					
<b>Product Weight:</b>	7 lb.					
<b>Finish:</b>	Textured mocha enamel					
<b>Impedance Selector Switch Settings:</b>	25V @ 15, 7.5, 3.7, 1.8 watts 70V @ 30, 15, 7.5, 3.7, 1.8 watts					
<b>Sound Pressure Level in dB @ 1000Hz:</b>	<b>Watts</b>	<b>Feet on Axis</b>				
	<b>Input:</b>	<b>4</b>	<b>8</b>	<b>16</b>	<b>32</b>	<b>64</b>
	30	121	115	109	103	97
	15	118	112	106	100	94
	7.5	115	109	103	97	91
	3.7	112	106	100	94	88
	1.8	109	103	97	91	85

**Architect & Engineer Specifications**

The loudspeaker shall be a Bogen Model BDT30A, or approved equivalent, reentrant horn type loudspeaker. The frequency response shall be from 225 Hz to 14 kHz. Rated power output shall be 30 watts RMS continuous. Dispersion shall be 100°, each horn. Sound pressure level, measured four feet on axis with 30 watt input @ 1000 Hz, shall be at least 121 dB for each horn.

The unit shall incorporate a seven-position weather-sealed switch, to allow matching the loudspeaker to a 25V or 70V constant-voltage line. Power handling capacity shall be adjustable at 70V to 30, 15, 7.5, 3.7 or 1.8 watts, and at 25V to 15, 7.5, 3.7 or 1.8 watts.

The loudspeaker shall be of weatherproof all-metal construction, with driver enclosed within a waterproof housing. The loudspeaker shall include a self-aligning, field replaceable diaphragm.

Screw terminals shall be provided for connection to the audio line. A plastic cover shall be provided to protect the connectors and impedance selector switch, and to provide strain relief for the audio line.

An all-purpose mounting bracket shall provide precise positioning in the vertical and horizontal planes with a single adjustment. The bracket shall include banding slots to permit mounting the loudspeaker on beams or pillars. Bracket and loudspeaker shall be finished in textured mocha enamel. The unit shall measure 9-5/8" diameter (each horn) x 12-1/8" D. Product weight shall be 7 lb.