RENKUS-HEINZ CDT520 SERIES

*Complex Conic Horns with high-power **CoEntrant** Driver*

Shown with mounting yoke

EXCLUSIVE COENTRANT DRIVER (U.S. Pat. 5,526,456)

Provides true point source performance from 350 Hz to 18 kHz with outstanding resolution and tonal clarity

TIGHTLY CONTROLLED BROADBAND COVERAGE

medium format Complex Conic horns provide controlled wide-band coverage

2 INCH HIGH FREQUENCY DRIVER

provides high-level low-distortion highs from 1500 Hz to 18 kHz

10 INCH MID-RANGE DRIVER

easily extends response down to 350 Hz with low distortion

WEATHER RESISTANT DESIGN

sealed driver enclosure and weather resistant cone offer maximum protection from the elements

CHOICE OF COVERAGE PATTERNS

choose between 90º by 40º, 60º by 40º , 40º by 40º and 40º by 40º asymmetrical designs

Exclusive CoEntrant Design

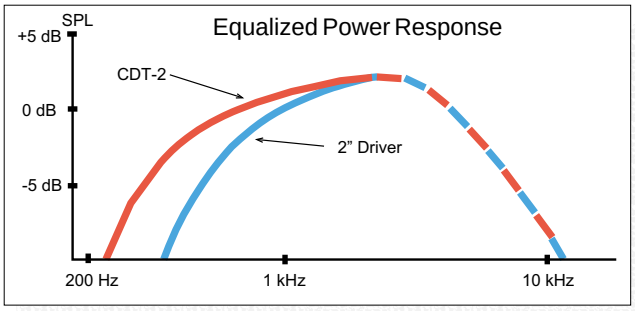
CDT520 series horns feature Complex Conic waveguide technology and the unique Renkus-Heinz CDT-2 CoEntrant mid/high frequency driver. They offer smooth pattern control down to 500 Hz along with tonal quality unattainable with conventional high frequency drivers.

Complex Conic technology combines the best features of constant beamwidth and oval horn designs into a complex waveguide that produces superior pattern control, especially at higher frequencies. Their smooth contours also eliminate high frequency "feathering" distortion that creates the harshness associated with rectangular horns. The result is less high frequency coloration and a far more natural sound than any other horn technology provides.

The 2-way CoEntrant design of the CDT-2 allows it to handle high power levels at least an octave lower than conventional 2" drivers can handle. The 2" high frequency driver operates in the 1500 Hz, and above, frequency range in which it's most efficient. The 10" cone mid range driver takes over below 1500 Hz and provides low end performance simply not available from conventional high frequency drivers.

Power Response Curves

Power Response Curves on the CDT-2 CoEntrant driver and a typical 2" high frequency compression driver clearly show the CDT-2's superior band width.



Choice of Models

The CDT520-64 and CDT520-94 are medium throw horns with 60º by 40º and 90º by 40º patterns. The CDT520-44 features long throw 40º by 40º dispersion and the CDT520-44LA, 40º by 40º asymmetrical (15º above axis and 25º below axis) coverage.

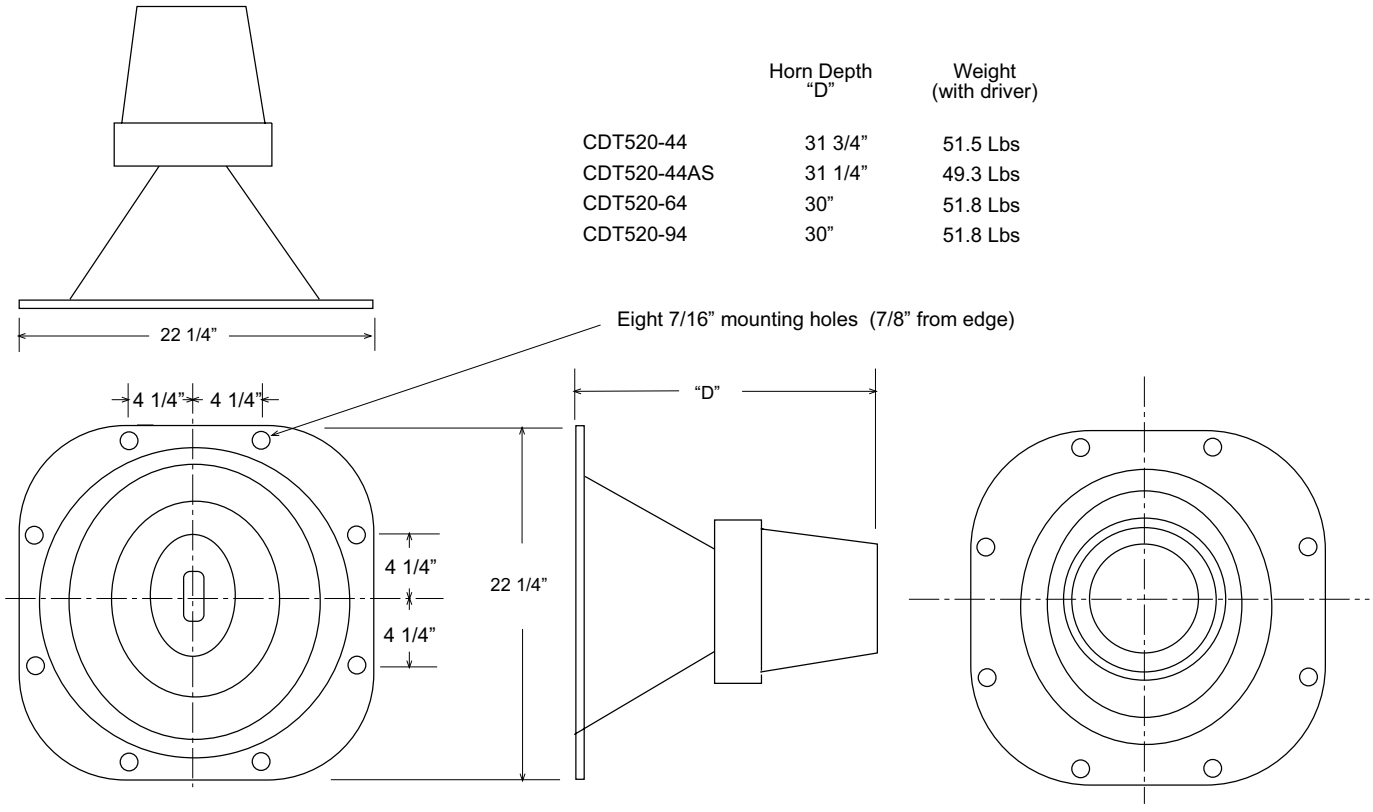
All four models provide tight pattern control down to 500 Hz and below. They come complete with a built-in crossover and a weather resistant housing for the driver/crossover network.

CDT520 SERIES TECHNICAL SPECIFICATIONS

	-44 & -44AS	-64 & -94
SENSITIVITY (1w/1m):		
800 Hz:	104 dB	104 dB
2500 Hz:	110 dB	109 dB
MAX. SPL (Pgm/Peak):		
800 Hz:	132 / 135 dB	132 / 135 dB
2500 Hz:	132 / 135 dB	131 / 134 dB
DISPERSION:		
CDT520-44:	40^{O} H by 40^{O} V	
CDT520-44AS:	40^{O} H by 40^{O} V asymmetrical	
CDT520-64:	60^{O} H by 40^{O} V	
CDT520-94:	90^{O} H by 40^{O} V	
FREQUENCY RESPONSE:	350 Hz to 18,000 Hz	
HIGH FREQUENCY DRIVER:	2" compression driver, 80 W RMS at 8 ohms, 160 W program.	
MID FREQUENCY DRIVER:	10" fiber cone driver, 300 W RMS at 8 ohms, 600 W program	
CROSSOVER POINTS:	350 Hz & 1500 Hz	
CONNECTOR OPTIONS:	Screw terminals, 4 foot "pig-tail"	
FINISH:	Black	
DIMENSIONS:	See drawing below	
NET WEIGHT:	See drawing below	
ASSOCIATED EQUIPMENT:	CELF15-2K & CE-3TLO low frequency enclosures CDT500YOKE Mtg. Bracket	

DIMENSIONAL INFORMATION

	Horn Depth "D"	Weight (with driver)
CDT520-44	31 3/4"	51.5 Lbs
CDT520-44AS	31 1/4"	49.3 Lbs
CDT520-64	30"	51.8 Lbs
CDT520-94	30"	51.8 Lbs



ARCHITECTS AND ENGINEERS SPECIFICATIONS

The horn assembly shall be a Renkus-Heinz Model ( ) or approved equal constant beamwidth horn equipped with a 2-way CoEntrant mid/high driver offering true point source performance.

The CoEntrant 2-way driver shall consist of an 10" cone mid frequency driver and a 2" high frequency driver coupled to a 3" throat. A Mid/HF crossover network shall also be included. The driver shall be protected with a weather resistant enclosure.

The horn assembly's power handling capacity shall be no less than 500 W program @ 8 ohms. Sensitivity shall be no less than ( ) dB @ 1w,1m with a maximum continuous SPL of at least ( ) dB and a frequency response of 350 Hz to 18 kHz.

The horn shall be at least ( ) in height, ( ) in width and ( ) in depth. Its driver mounting plate shall be 13" in diameter and include 4 9/32" holes to simplify mounting of the horn/driver assembly. The assembly shall weigh no more than ( )Lbs. Connectors shall be (screw terminals) (4 foot "pig-tail").

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