

Circular Horns with Rectangular Input

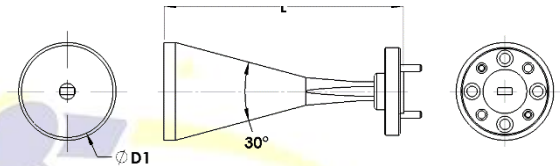
Summary:

Circular Horns have a broad variety of applications in the aerospace industry and CMi is proud to provide these antennas of the highest quality. Each horn is precisely electroformed over a mandrel and gold plated. These horns have maximal return loss and gain ranging from 20 to 23 dB. Horns with different gain values can be special ordered. Rectangular Horns are available in sizes WR3 to WR42.



Ordering Example:

RCHO28S is a Conical Horn with a Rectangular input and Square flange



| Part Name | RF Specifications | | | Mechanical Specifications | | | | |
|-----------|-------------------|-----------------|----------|---------------------------|---------------|--------------------|-----------------|---------|
| | WR | Frequency (GHz) | Max VSWR | WG A DIM (in) | WG B DIM (in) | Aperture - D1 (in) | Length - L (in) | Flange |
| RCHO42S | 42 | 18 - 26.5 | 1.1:1 | 0.4200 | 0.1700 | 2.300 | 5.000 | S 0.875 |
| RCHO28S | 28 | 26.5 - 40 | 1.1:1 | 0.2800 | 0.1400 | 1.800 | 4.200 | S 0.750 |
| RCHO22R | 22 | 33 - 50 | 1.1:1 | 0.2240 | 0.1120 | 1.440 | 3.200 | R 1.125 |
| RCHO19R | 19 | 40 - 60 | 1.1:1 | 0.1880 | 0.0940 | 1.180 | 3.050 | R 1.125 |
| RCHO15R | 15 | 50 - 75 | 1.1:1 | 0.1480 | 0.0740 | 0.950 | 2.400 | R 0.750 |
| RCHO12R | 12 | 60 - 90 | 1.1:1 | 0.1220 | 0.0610 | 0.784 | 2.050 | R 0.750 |
| RCHO10R | 10 | 75 - 110 | 1.1:1 | 0.1000 | 0.0500 | 0.643 | 1.400 | R 0.750 |
| RCHO8R | 8 | 90 - 140 | 1.1:1 | 0.0800 | 0.0400 | 0.514 | 1.400 | R 0.750 |
| RCHO6R | 6 | 110 - 175 | 1.1:1 | 0.0650 | 0.0325 | 0.418 | 1.150 | R 0.750 |
| RCHO5R | 5 | 140 - 220 | 1.1:1 | 0.0510 | 0.0255 | 0.328 | 0.900 | R 0.750 |
| RCHO4R | 4 | 170 - 260 | 1.1:1 | 0.0430 | 0.0215 | 0.276 | 0.750 | R 0.750 |
| RCHO3R | 3 | 220 - 325 | 1.1:1 | 0.0340 | 0.0170 | 0.218 | 0.650 | R 0.750 |

