

N&N Productions, Ltd.
5540 High Rock Way, Sparks, NV 89431
Ph: 775-355-9080 Fax: 775-355-7859
www.brassgobos.com

Basic Art Requirements

Art via Fax... 775-355-7859

- **First Generation.**
- **High contrast Black & White. We cannot work from color art.**
- **Standard Instrument Size: 3.5" to 5" in diameter. This lets us size in one generation.**
- **Motorized Fixture Size: 2" to 3" in diameter.**
- **Size is important! Enlarging a fax does not work!**
- **Please transmit on FINE or SUPER FINE setting for maximum resolution. Do not use Standard Resolution.**
- **Second generation art, low contrast art and art smaller than specified will be charged a clean up fee.**

Art via Email... N&N@inetworld.com

- **We use Corel Draw, Adobe Illustrator and AutoCad**
- **The best files are: .CDR (Corel), .EPS (encapsulated Postscript) or DXF (AutoCad)**
These are vector-based files and are resolution independent. We can scale them with no loss in quality.
- **Second best: .TIF, .WMF or .BMP**
These are raster-based (bitmaps) and resolution dependent. The lower the dpi, the less quality we have to work with. Lower resolution bitmap files get fuzzy when enlarged.
- **Worst: .JPG and .GIF**
These are compressed files typically used for designing Web sites. When created, detail is lost for the sake of small file size. Simply pulling an image from a Web site for us to use usually results in unacceptable quality. We can usually open them for a look, but the quality will be poor.

Please visit our Web site (www.brassgobos.com) for the latest artwork requirements and for illustrations of the different file types explained above. We respect your work as a designer - your artwork belongs to you and we will not reproduce it without your express permission.

Keystone Information

Distance Projected (DP) =

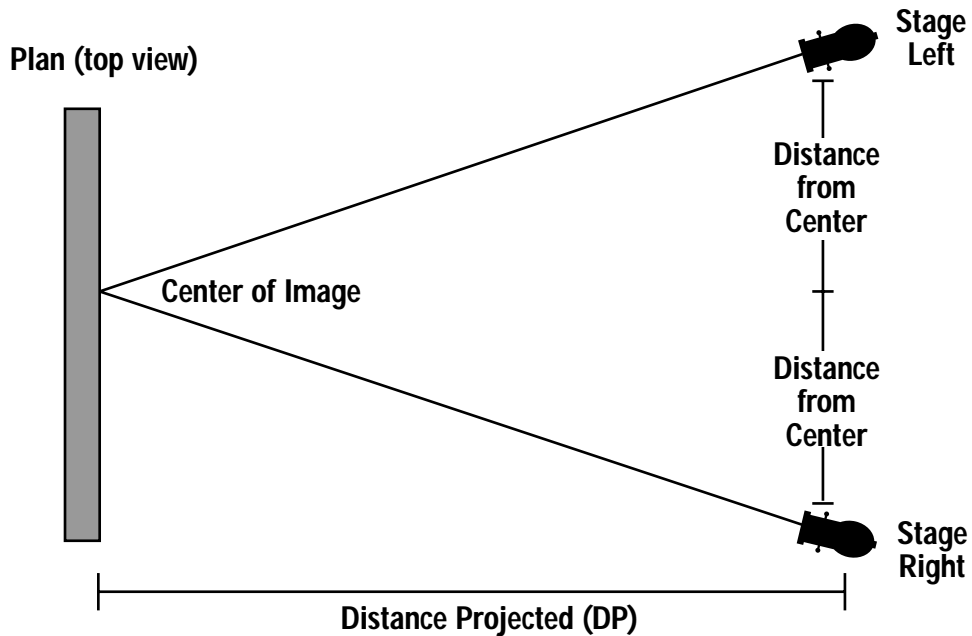
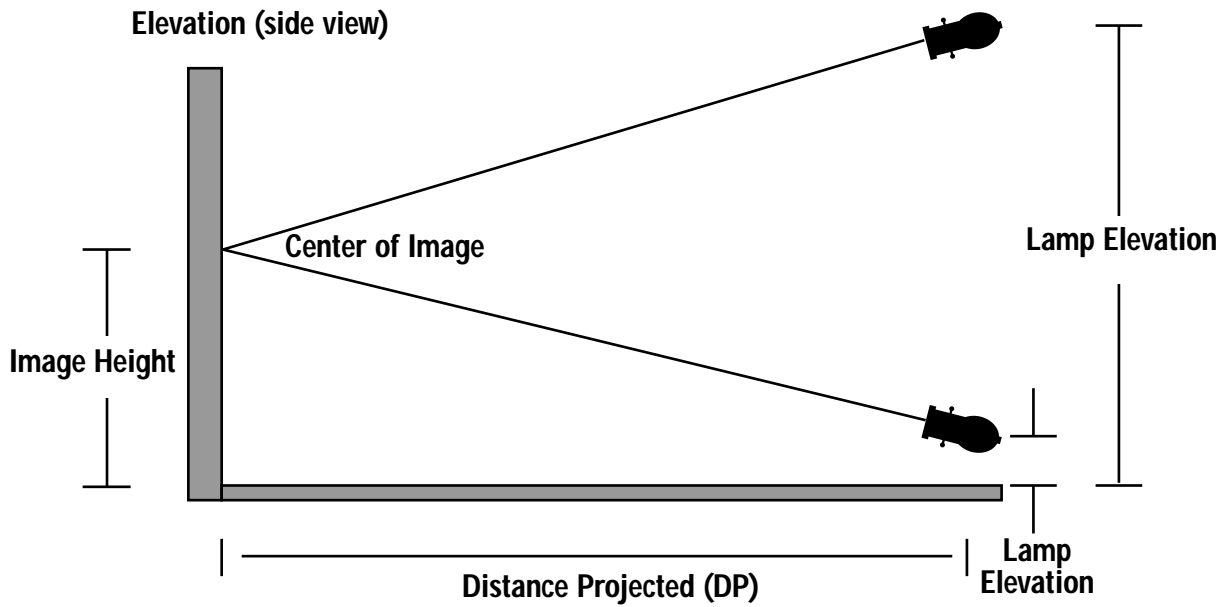
Lamp Elevation =

Stage Right

Image Height =

Dist. from Center =

or
Stage Left



Basic Formula for Gobo Projections

$$\frac{S}{F} \times \frac{I}{D}$$

S = size of the gobo
 I = image projected
 D = distance projected
 F = focal length of the instrument

$$S = \frac{I}{D} \times F$$

$$I = \frac{D}{F} \times S$$

$$D = \frac{I}{S} \times F$$

$$F = \frac{D}{I} \times S$$

$$S = \frac{F}{D} \times I$$

$$I = \frac{S}{F} \times D$$

$$D = \frac{F}{S} \times I$$

$$F = \frac{S}{I} \times D$$

$$S = \frac{F \times I}{D}$$

$$I = \frac{S \times D}{F}$$

$$D = \frac{F \times I}{S}$$

$$F = \frac{S \times D}{I}$$

Change all measurements to the same units (all inches, meters, etc.).
 Feet/inches will not work.

Select the proper formula and insert the data.
 For example:

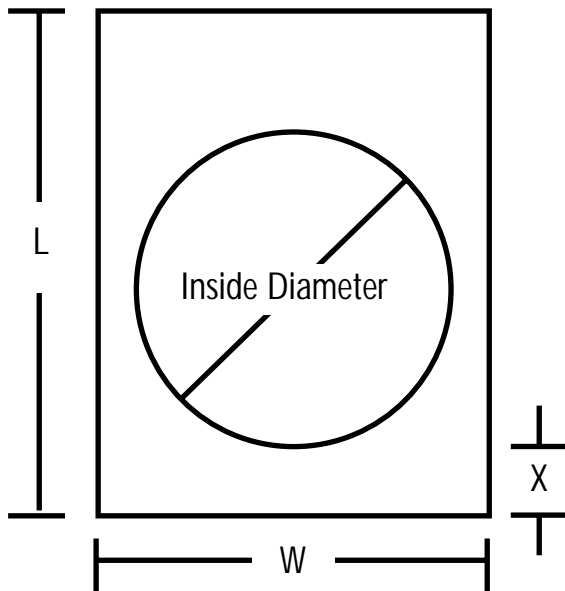
$$I = \frac{D}{F} \times S \quad \rightarrow \quad I = \frac{30'8''}{12''} \times 2 \frac{3}{8}'' \quad \rightarrow \quad I = \frac{368''}{12''} \times 2.375''$$
$$I = 30.66 \times 2.375'' \quad \rightarrow \quad I = 72.833''$$

Gobos come in many sizes and shapes. We will need to know...

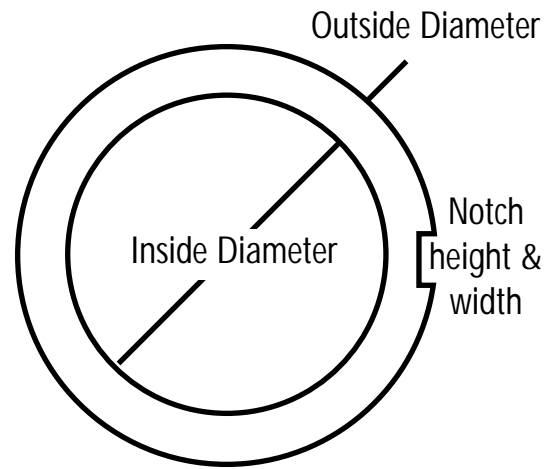
- The instrument you are using (brand and size). The gobo holder you are using (channel, sandwich or round with tabs).

...Or...

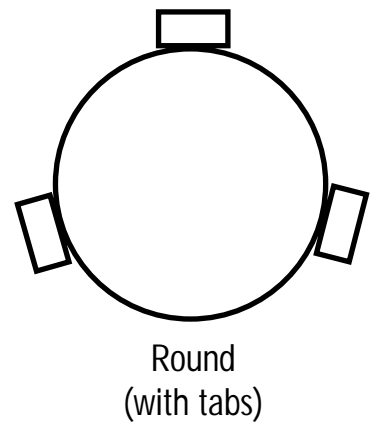
- Specify the gobo using the standard established sizes: A round or B size, square, etc.
- If you do not know the specifics, please provide the information below...



L=length; W=width;
X=offset from bottom edge



Holder info:



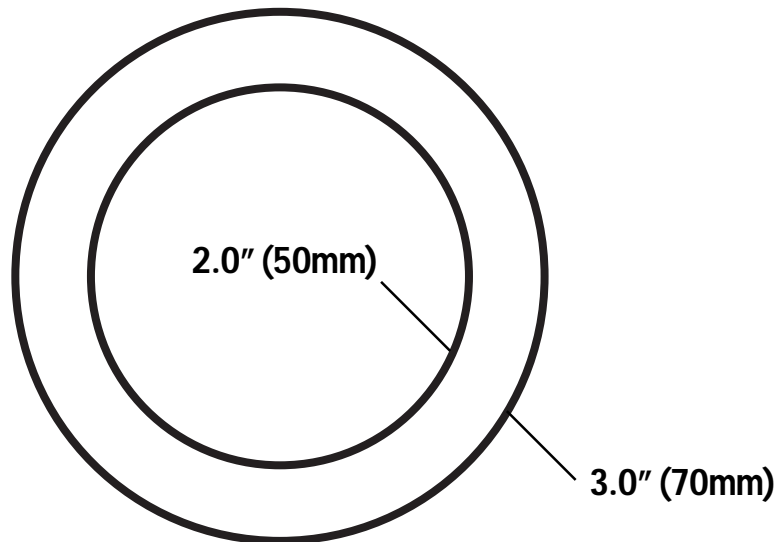
Gobo info:

L =
W =
Inside Diameter =
X =

Inside Diameter =
Outside Diameter =
Notch Height =
Notch Width =

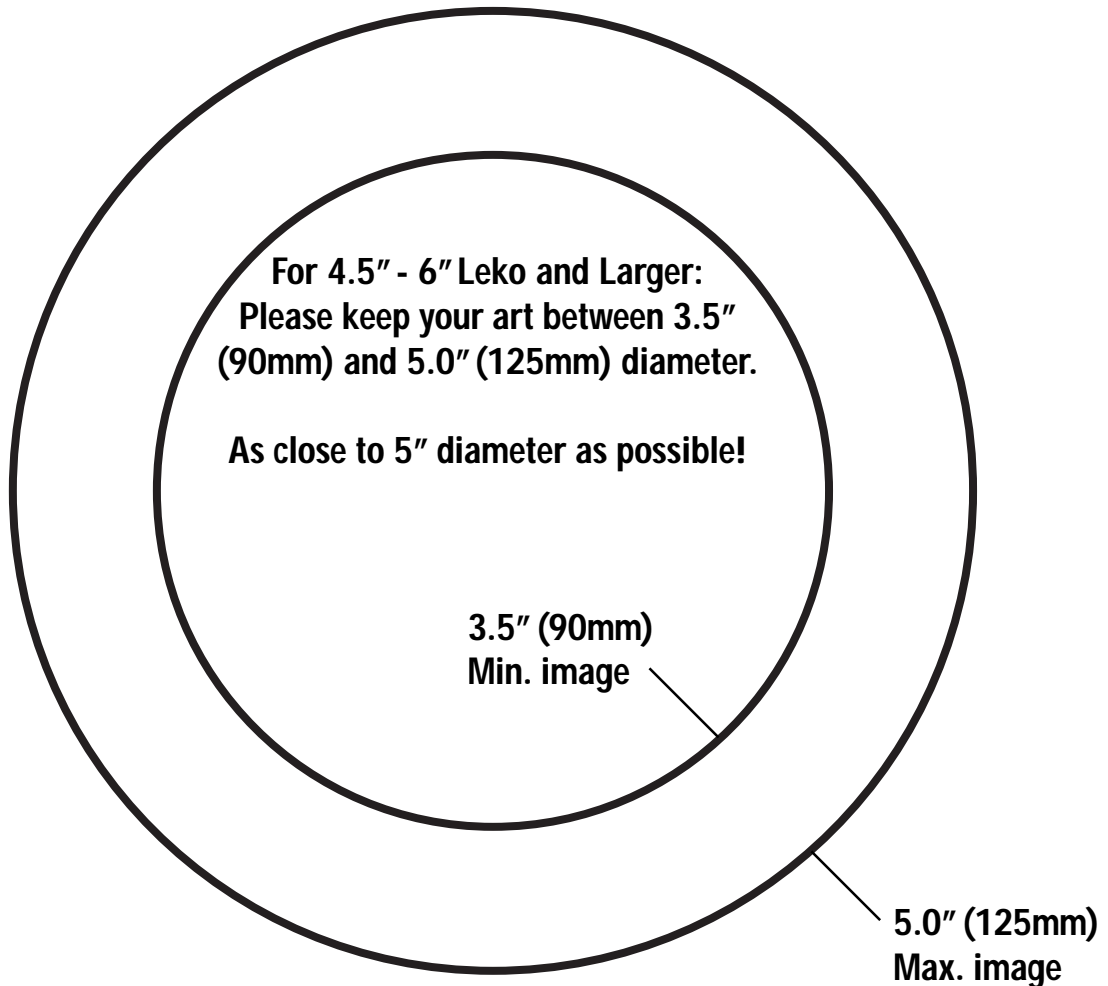
Gobo Sizes

**For Robotic Fixtures: Please keep your art between
2.0" (50mm) and 3.0" (70mm) diameter.**

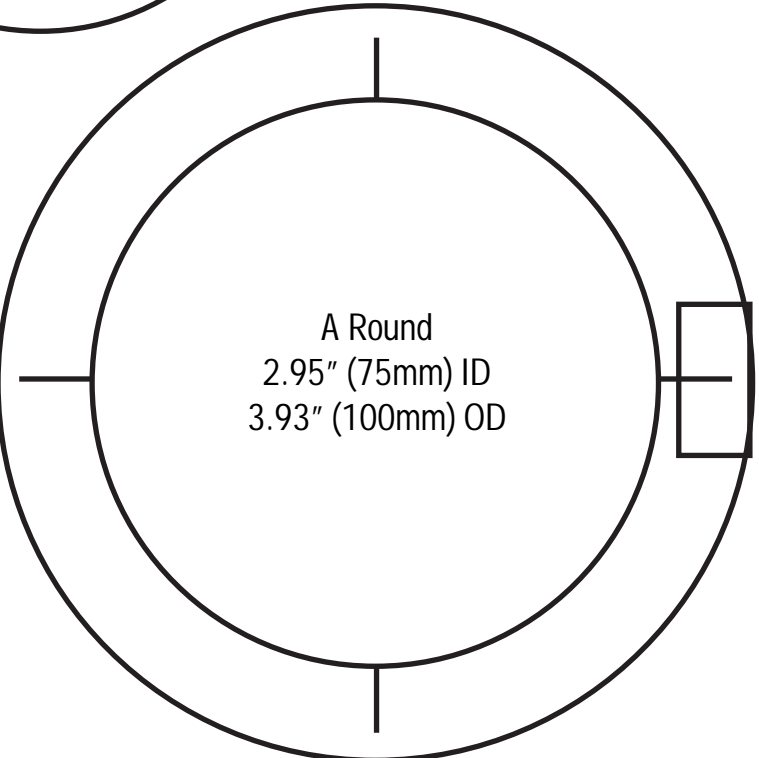
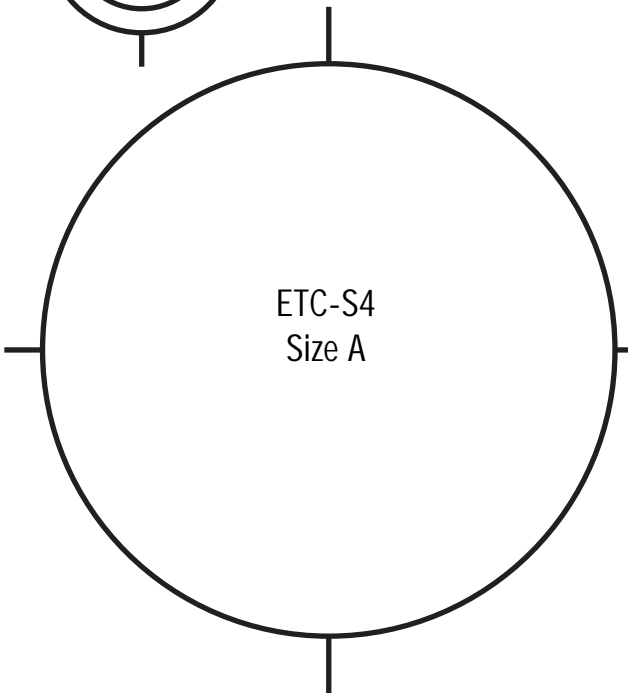
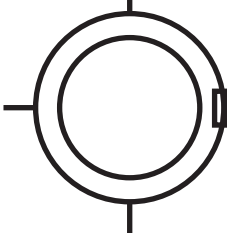
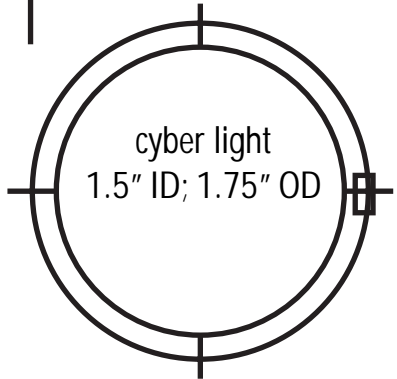
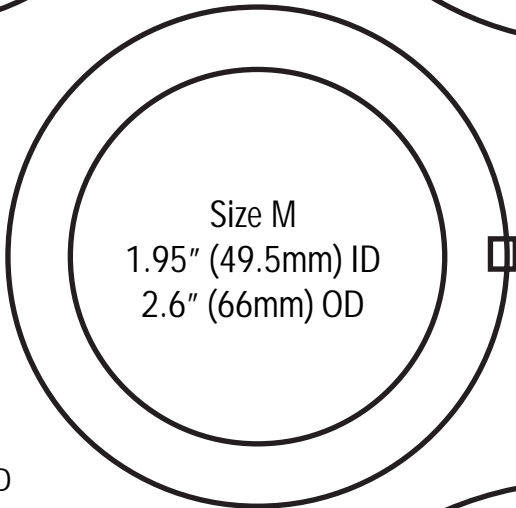
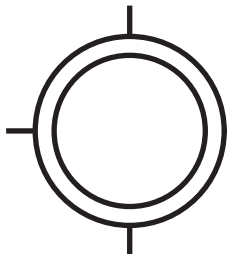
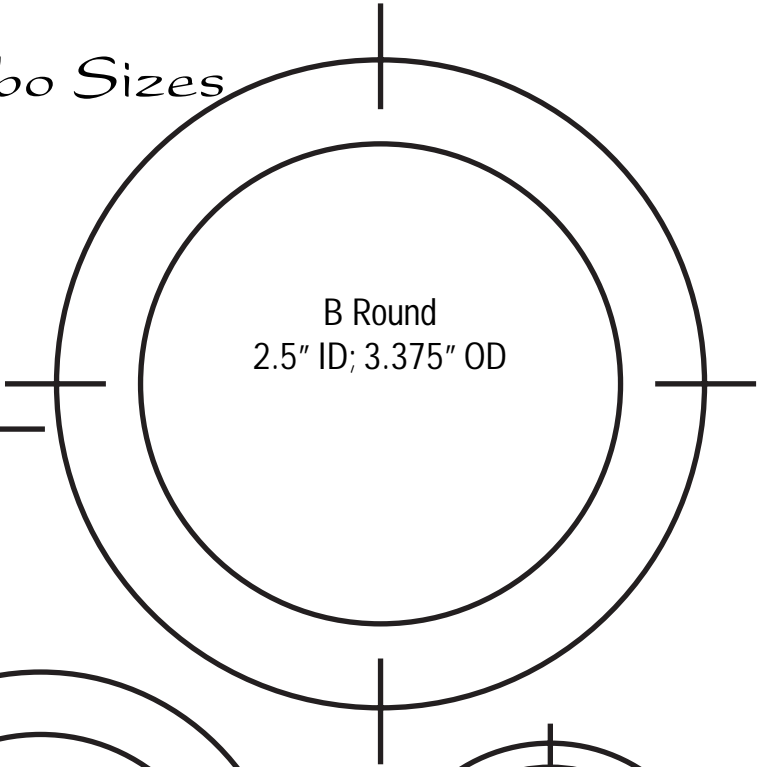
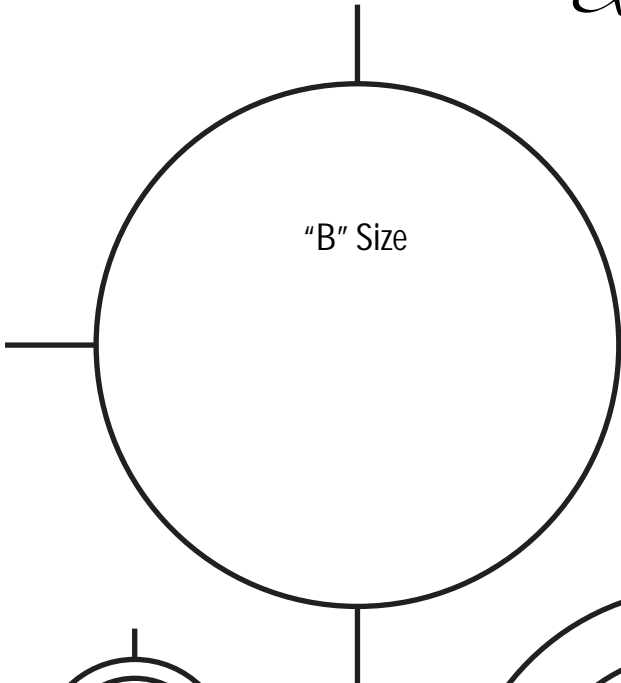


**For 4.5" - 6" Leko and Larger:
Please keep your art between 3.5"
(90mm) and 5.0" (125mm) diameter.**

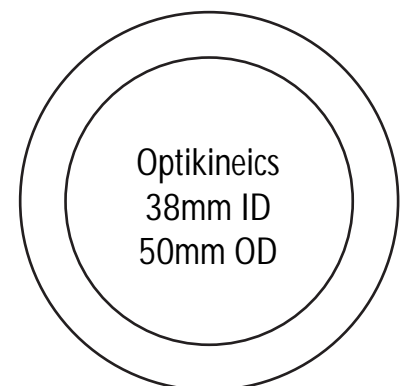
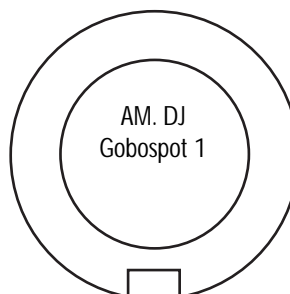
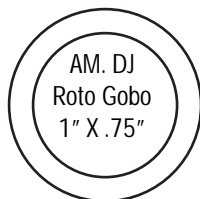
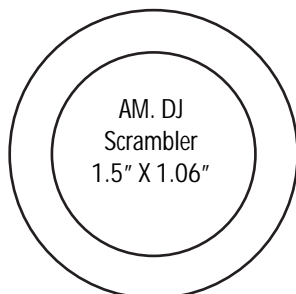
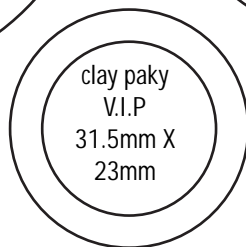
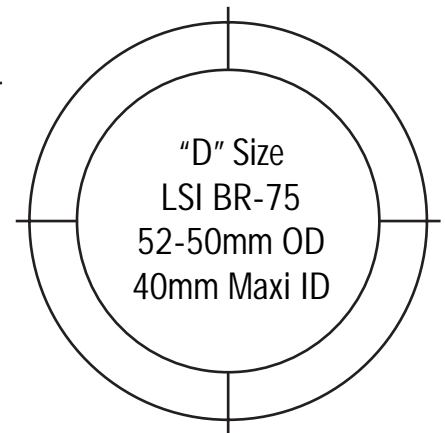
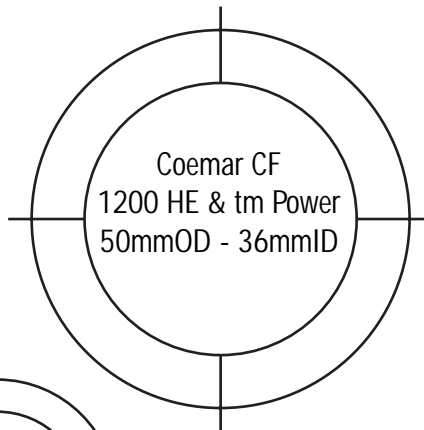
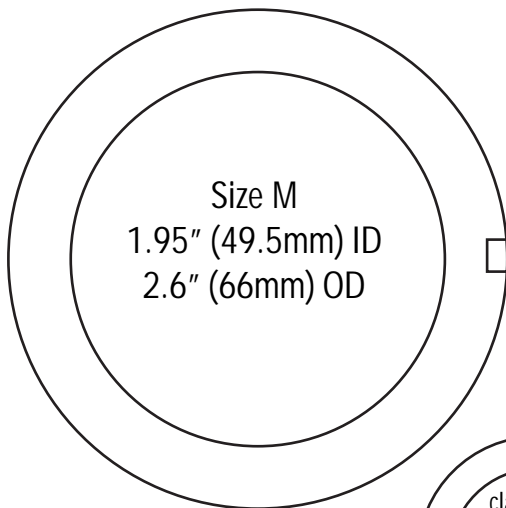
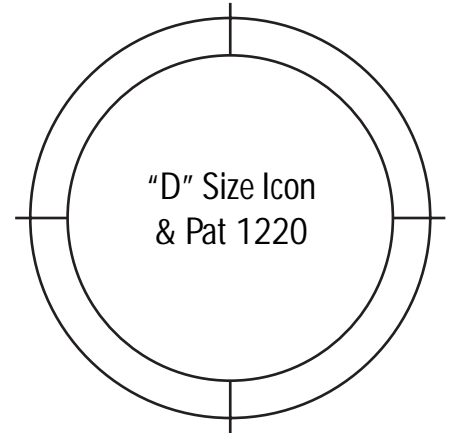
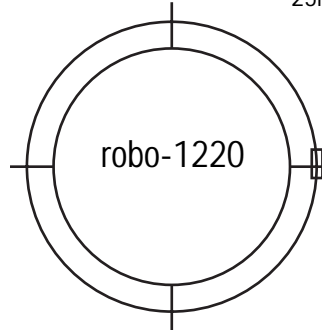
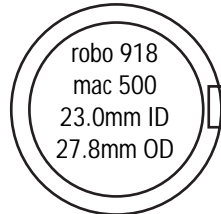
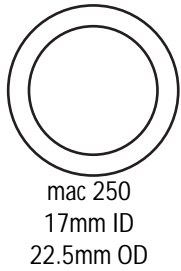
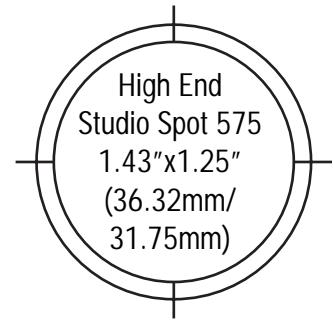
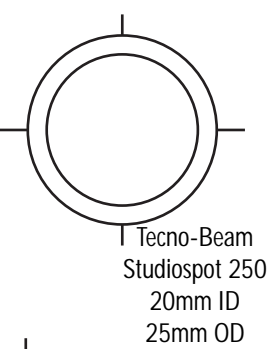
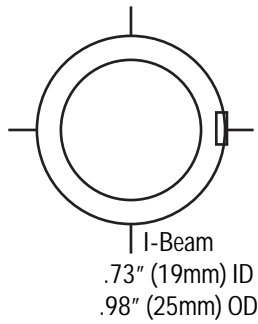
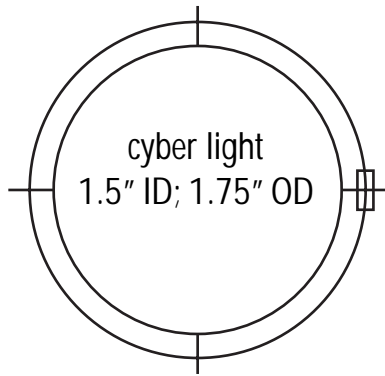
As close to 5" diameter as possible!



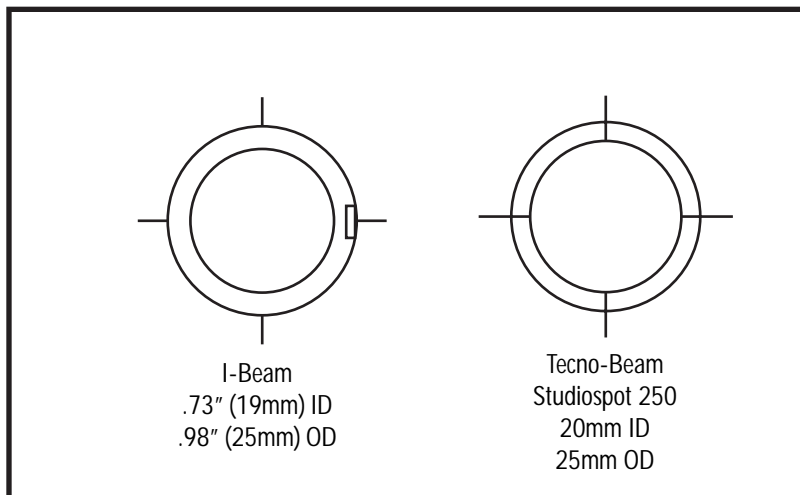
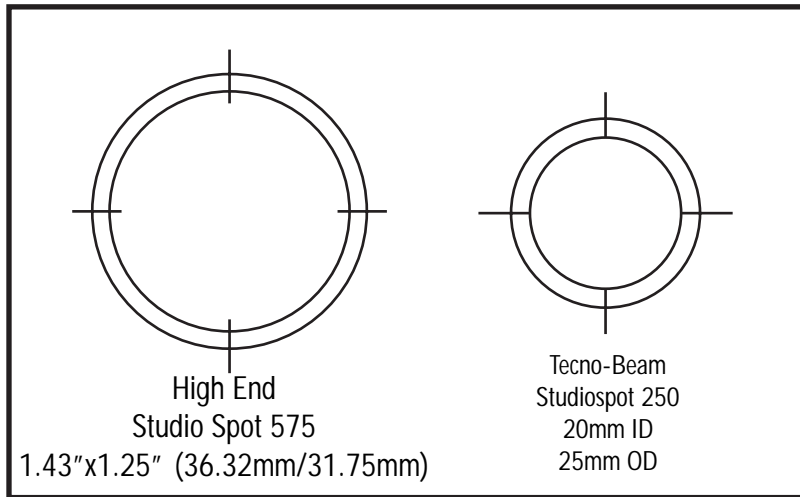
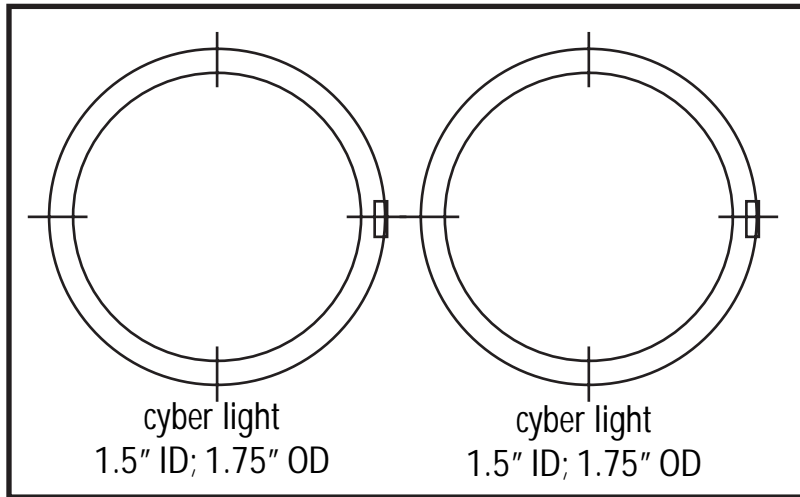
Gobo Sizes



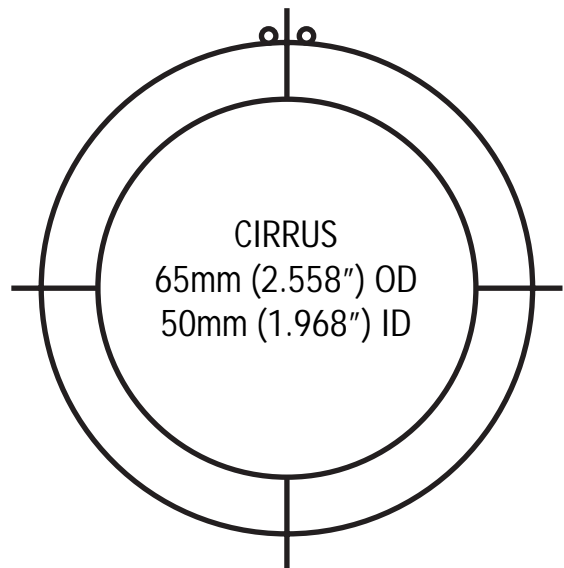
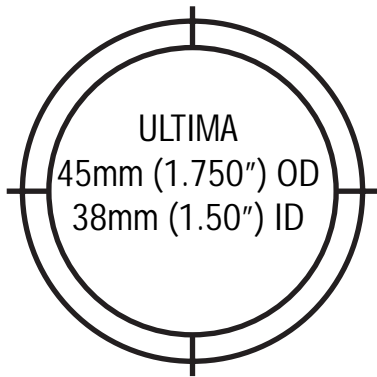
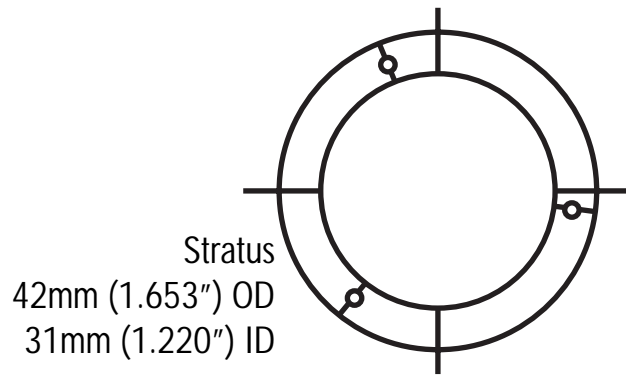
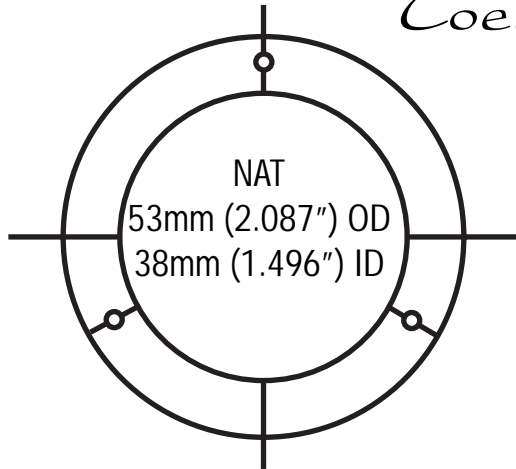
Gobo Sizes



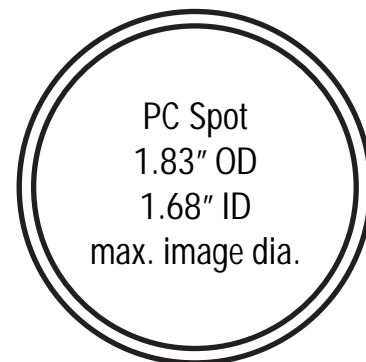
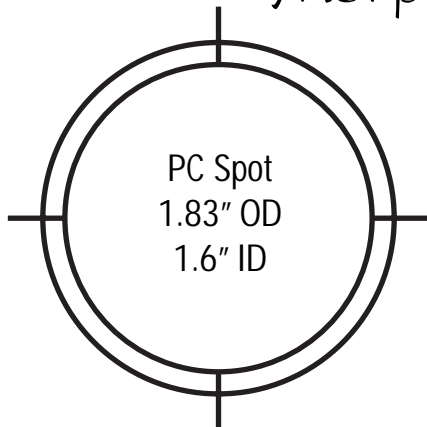
High End & Lightwave Research



Wonders of Holography Coemar Fixtures



Morpheus Lights, Inc.



Mole 407 Focal Spot

