

Alternative stripper design for Lofrans Tigres

Bjarne Knudsen, April 1, 2022

Introduction

This document contains designs for strippers for the Lofrans Tigres windlass. Different designs for different inner diameters of the gypsy are given, so strippers can be made for different gypsies. The drawings for different gypsy sizes can be found at the end of this document.

Reasons for these designs

One reason for making this stripper is that it is much more solid than the original Lofrans strippers, so is less likely to bend. Another reason is that it can be mounted on the deck of the boat instead of on the windlass body. This is useful if the threads in the windlass body has corroded (the Tigres windlass body is aluminum so it seems to happen a lot).

Mounting

The two holes near the center of the stripper are for mounting it on the body of the windlass. The three bottom holes are for mounting on the deck next to the windlass mounting. This is done by bolting a block of some suitable material to the deck and bolting the stripper to this block.

When mounting the stripper directly to the windlass, a spacer will be needed. The original strippers are sometimes bent to match the center of the groove in the gypsy. Instead, the designs in this document call for a spacer between the body of the windlass and the stripper to place the stripper at the center of the groove in the gypsy.

It is probably a good idea to use some 8 mm bolts which are longer than the originals to make sure there is enough thread in the windlass body for a solid mounting. Both the spacer and the more solid stripper argues for these longer bolts.

Fabrication

Measure the diameter of your gypsy at the bottom of the groove. This is the diameter that the stripper should fit. Choose the corresponding design among the drawings at the end of this document.

The stripper should be made of 6 mm or 1/4" stainless steel bar with a width of 80 mm. The length of material needed is about 150 mm depending on fabrication method (e.g. depending on the need for a pilot hole for a hole saw for the large curve).

If making the large curve with a hole saw, start by marking the center based on the given distance from the edge of the 80 mm wide steel bar. Use a hole saw of the size given as "Large hole" or the closest you can get which is smaller. Once the large hole has been created, match the drawing to the edge of the hole and mark the rest of the design on the steel bar. An angle grinder can be used to adjust the edges of the large curve if the hole saw used was a bit smaller than the design calls for.

Save paper and print only the page you need. Make sure to print at 100% scale. Each drawing has a 100 mm long line to check the scale once printed. Here are a few numbers from the design:

- Nominal distance from the deck to the bottom of the stripper: 5 mm
- Nominal space between gypsy and stripper: 2 mm

History

Here is a list of known gypsy sizes (just one for now):

| Chain | Inner diameter of gypsy |
|-------|-------------------------|
| 12 mm | 62 mm |

This is the only one that has been tested so far. The deck mounting has not been tested yet. Note that the 12 mm gypsy is apparently not made for the Tigres windlass, but some boats have that combination.

Contact

You can contact me by sending me a private message on Cruisers Forum. My user name there is BjarneK. Please do so in the following situations:

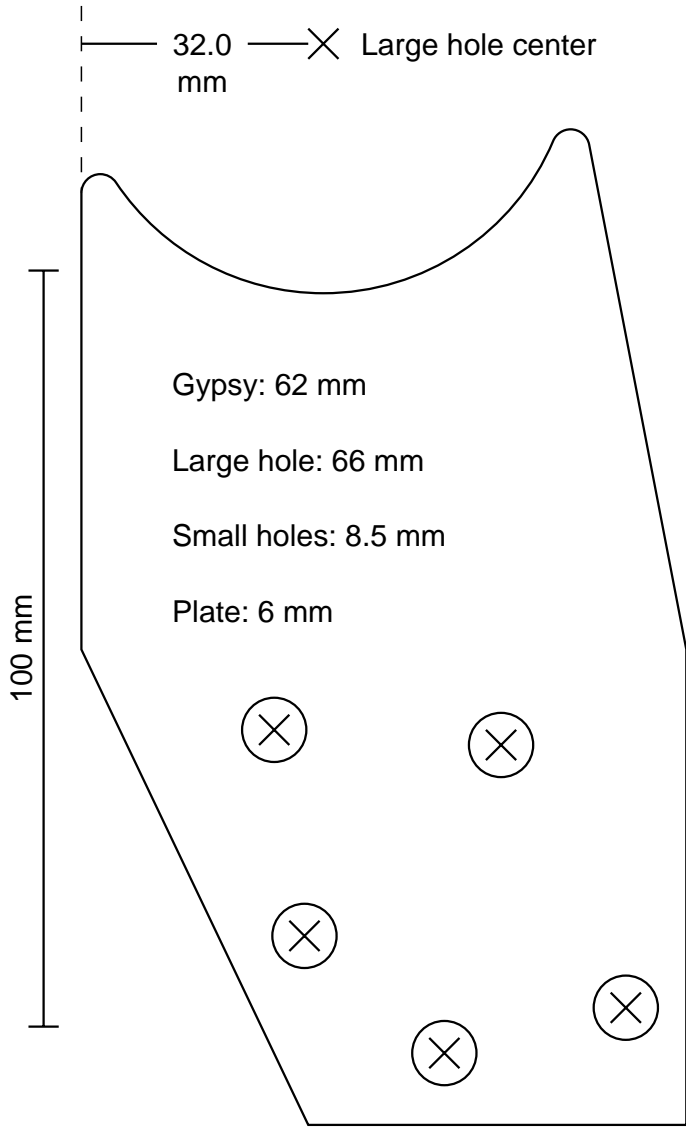
- If you have created a stripper to let me know how you like it.
- If you have measured your gypsy, so I can put it in the table.
- If you want files for laser cutting the stripper or something along those lines.
- If you have any questions.

License

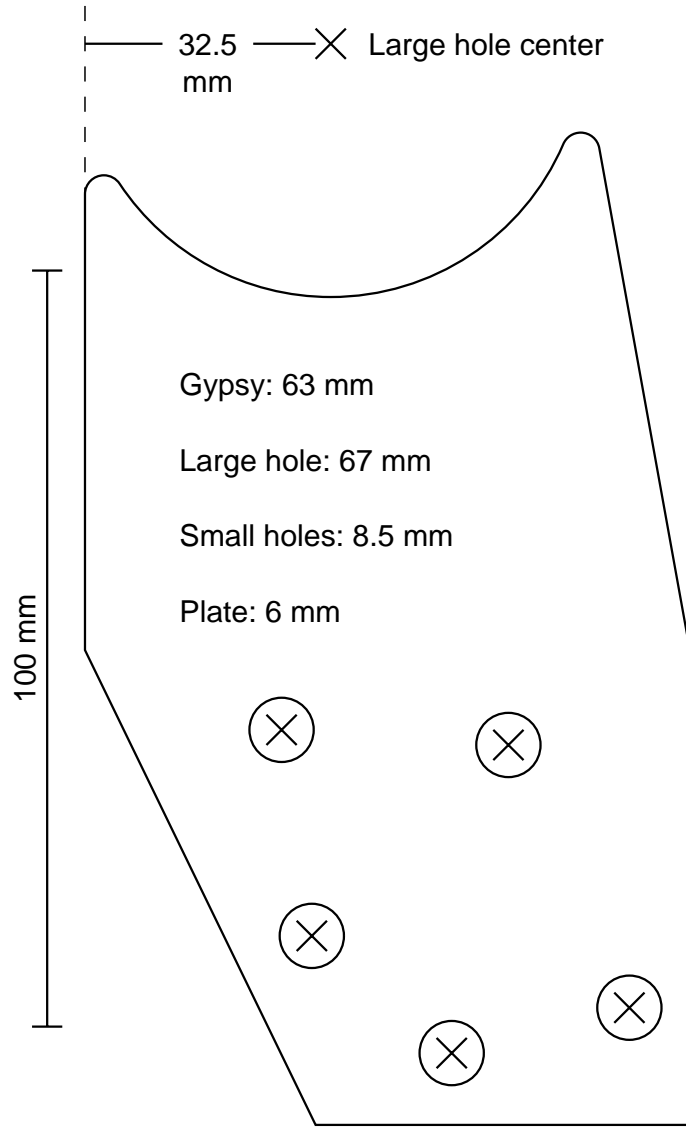
This document is public domain, so you can use it however you like.

Drawings

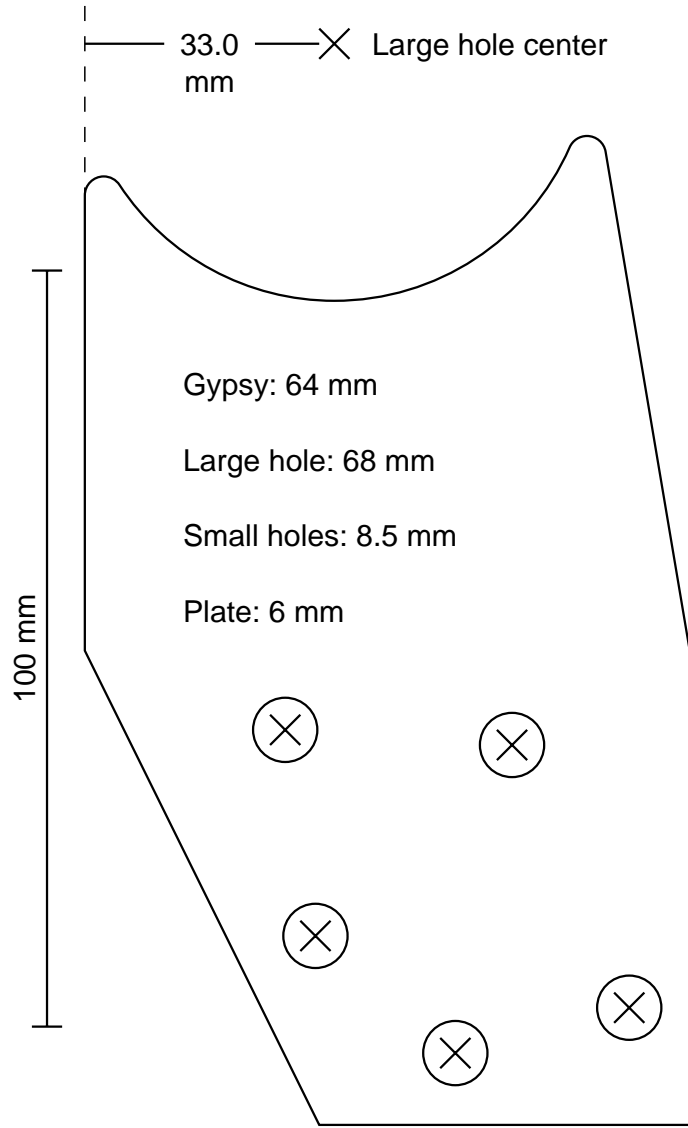
62 mm Gypsy



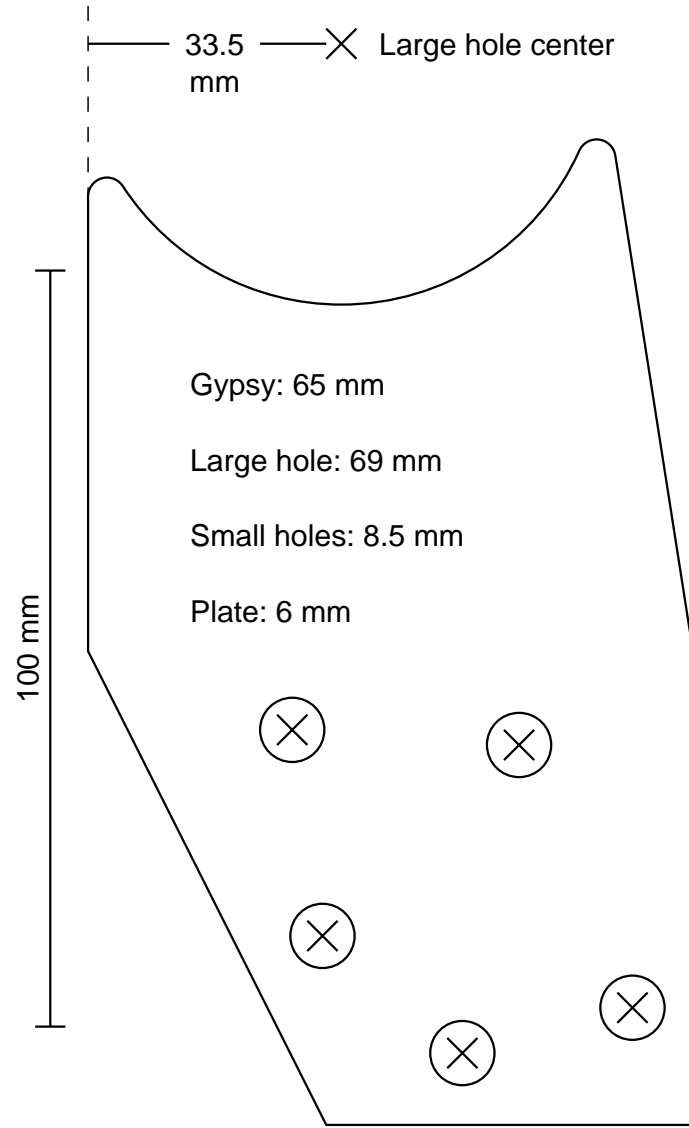
63 mm Gypsy



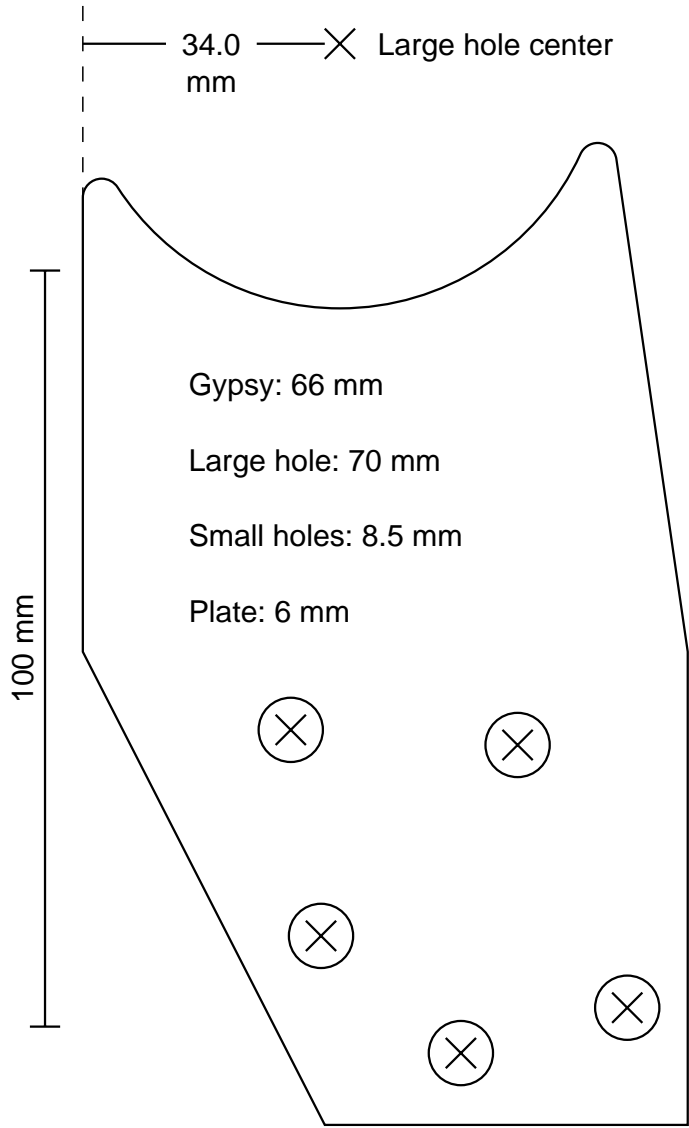
64 mm Gypsy



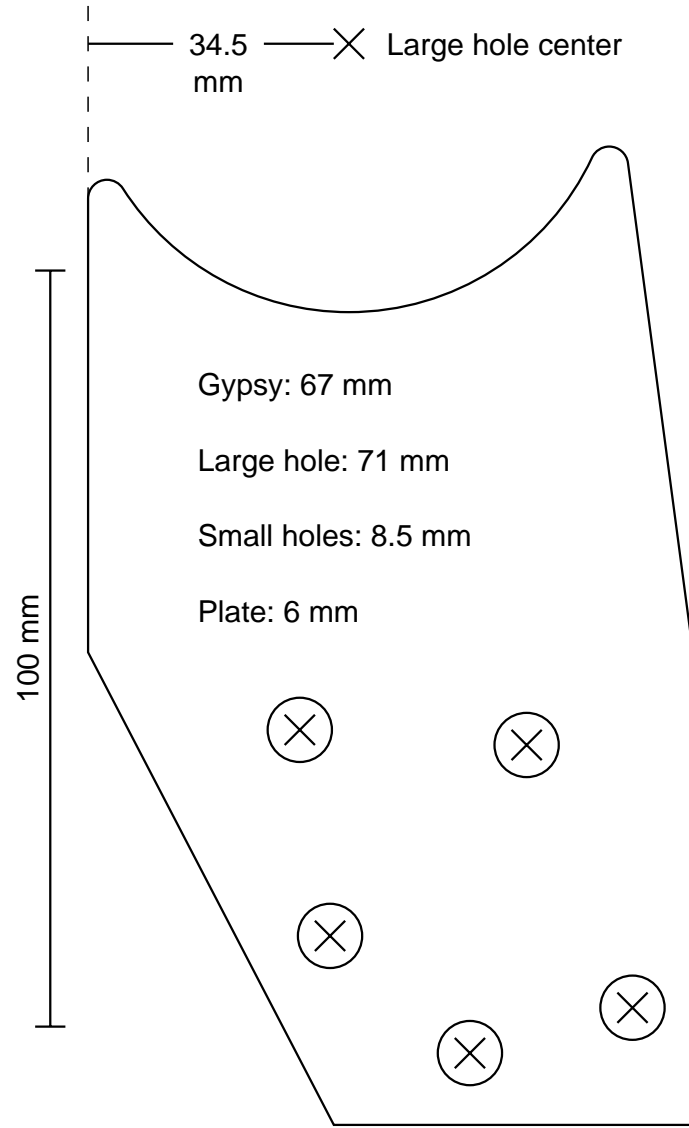
65 mm Gypsy



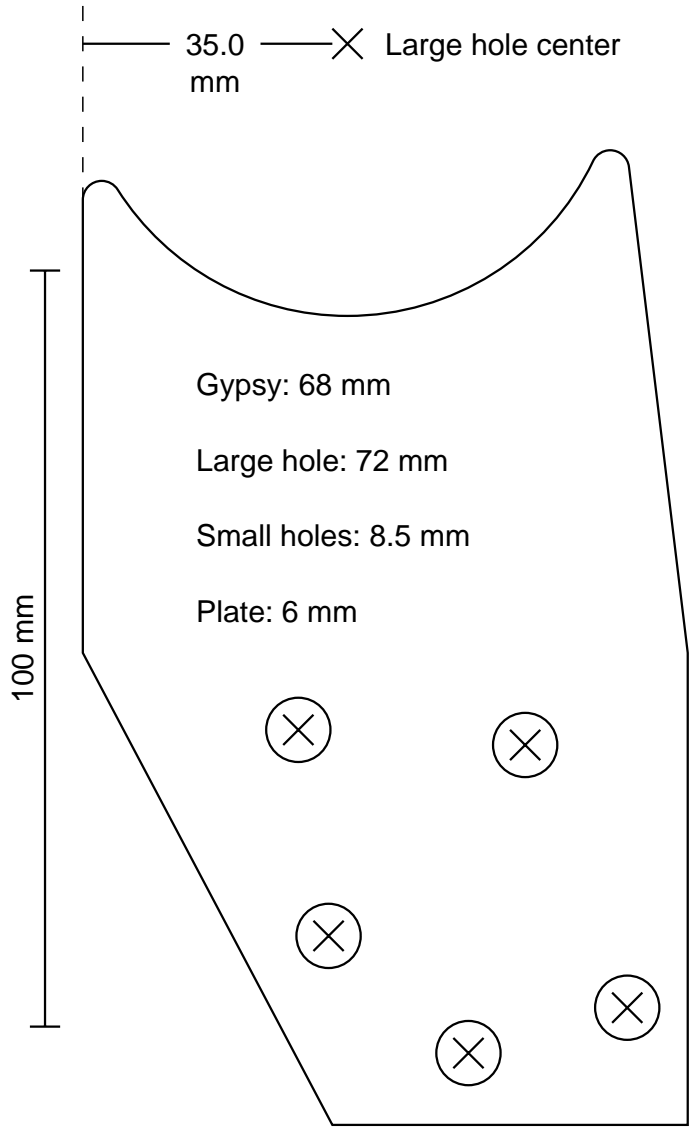
66 mm Gypsy



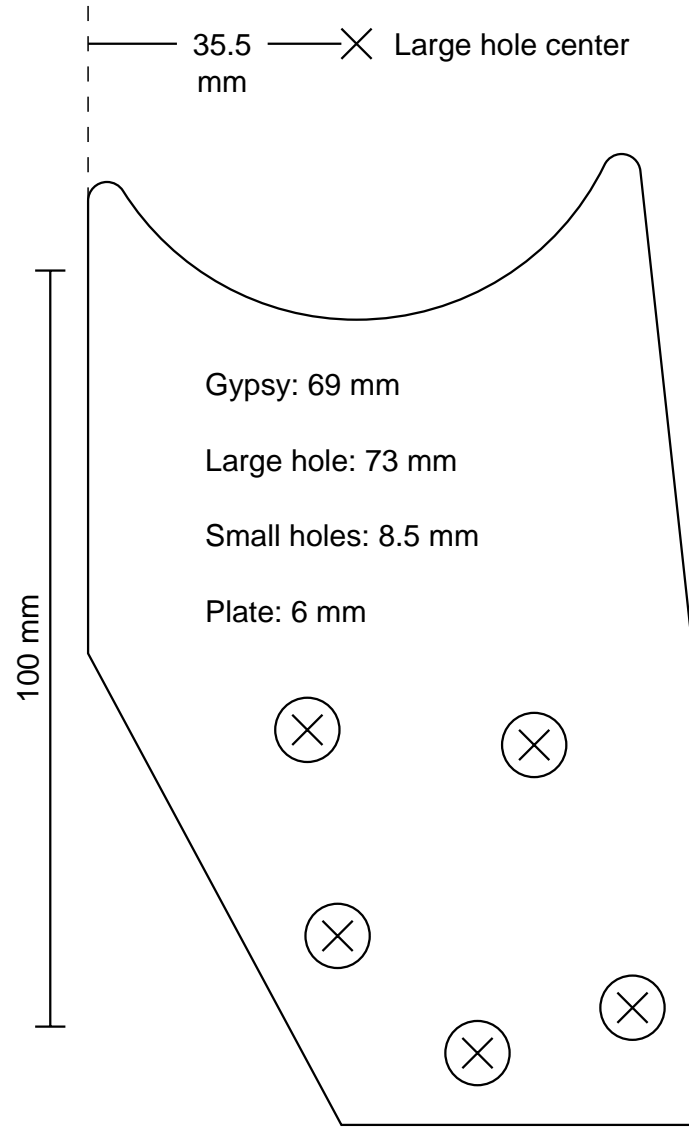
67 mm Gypsy



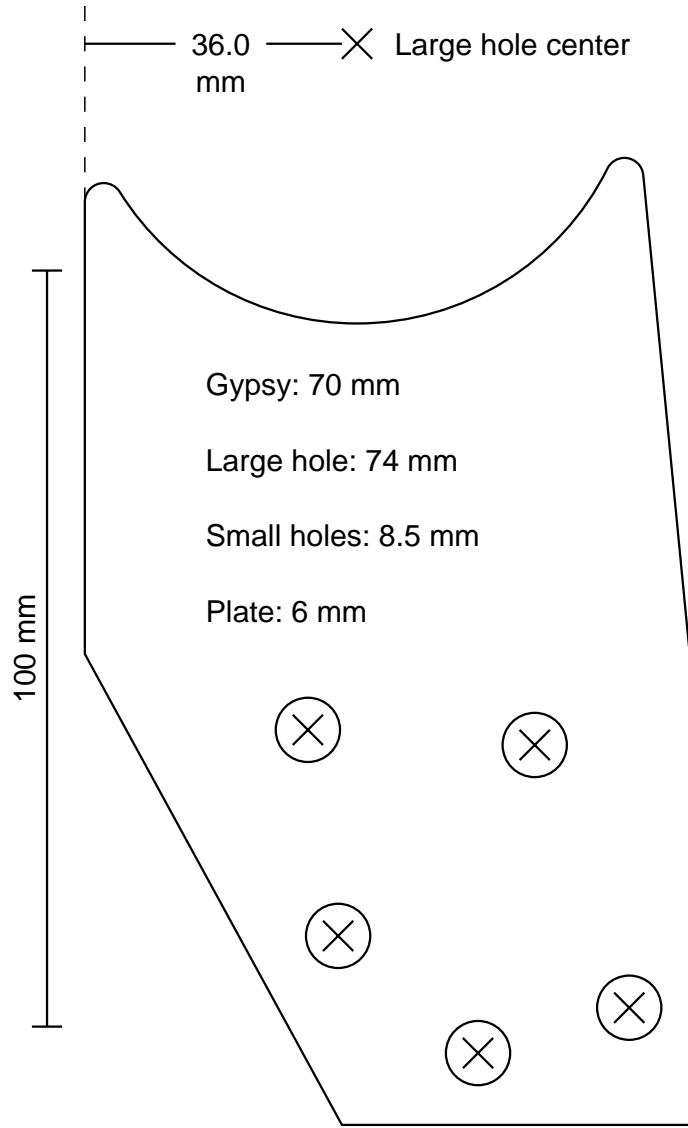
68 mm Gypsy



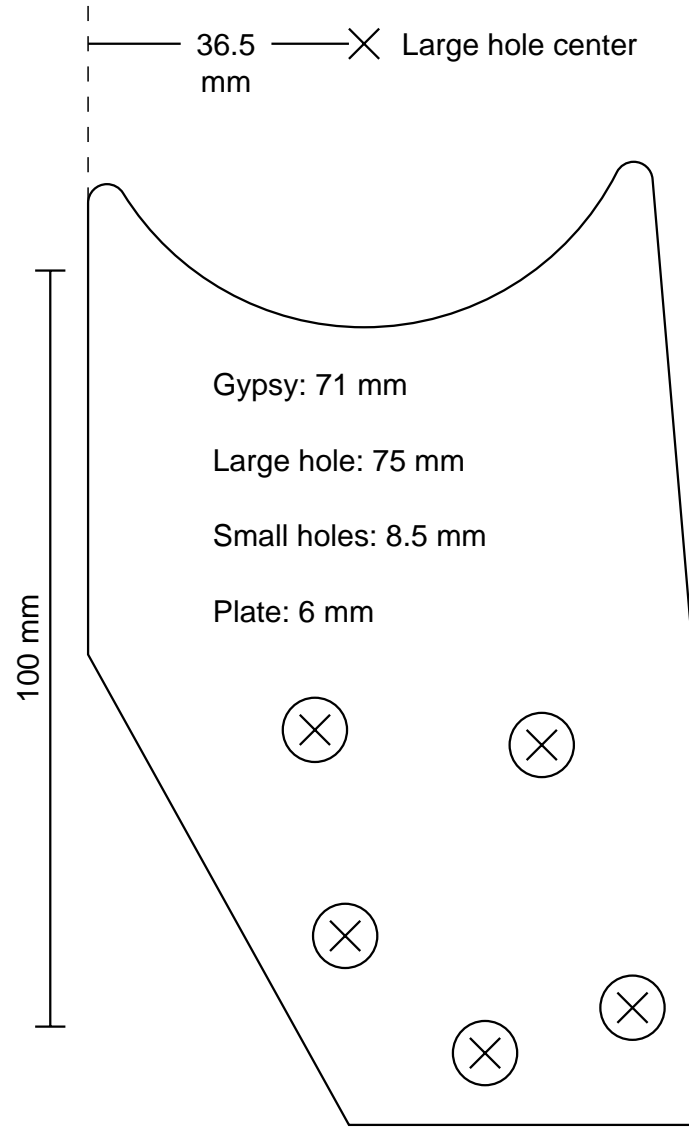
69 mm Gypsy



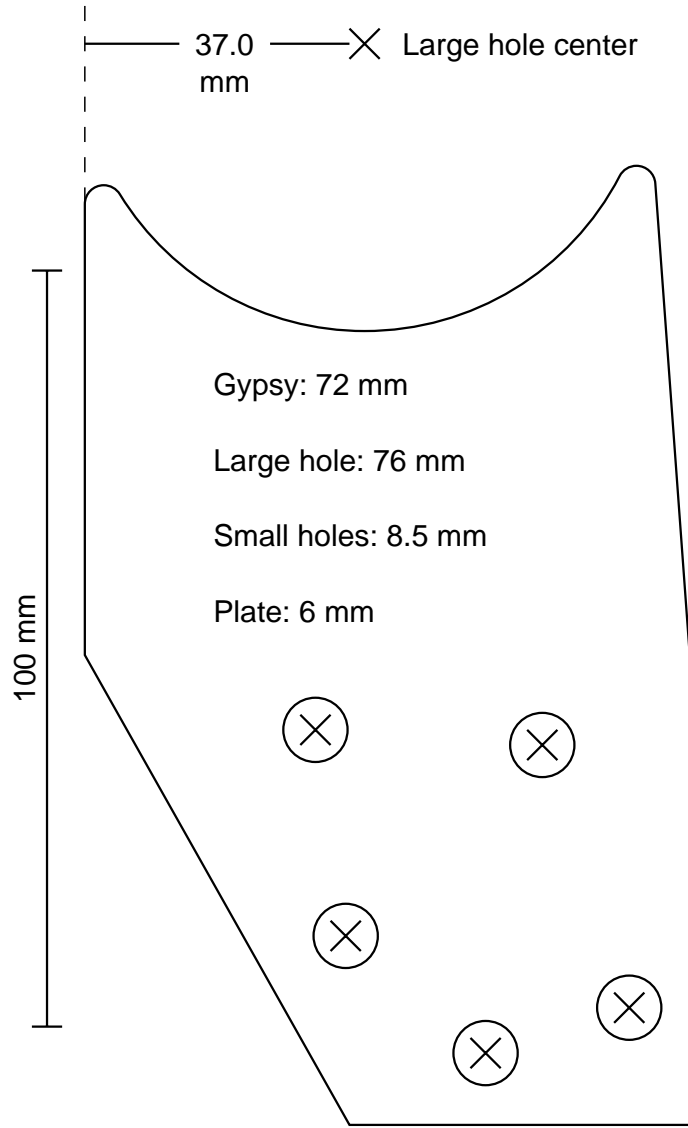
70 mm Gypsy



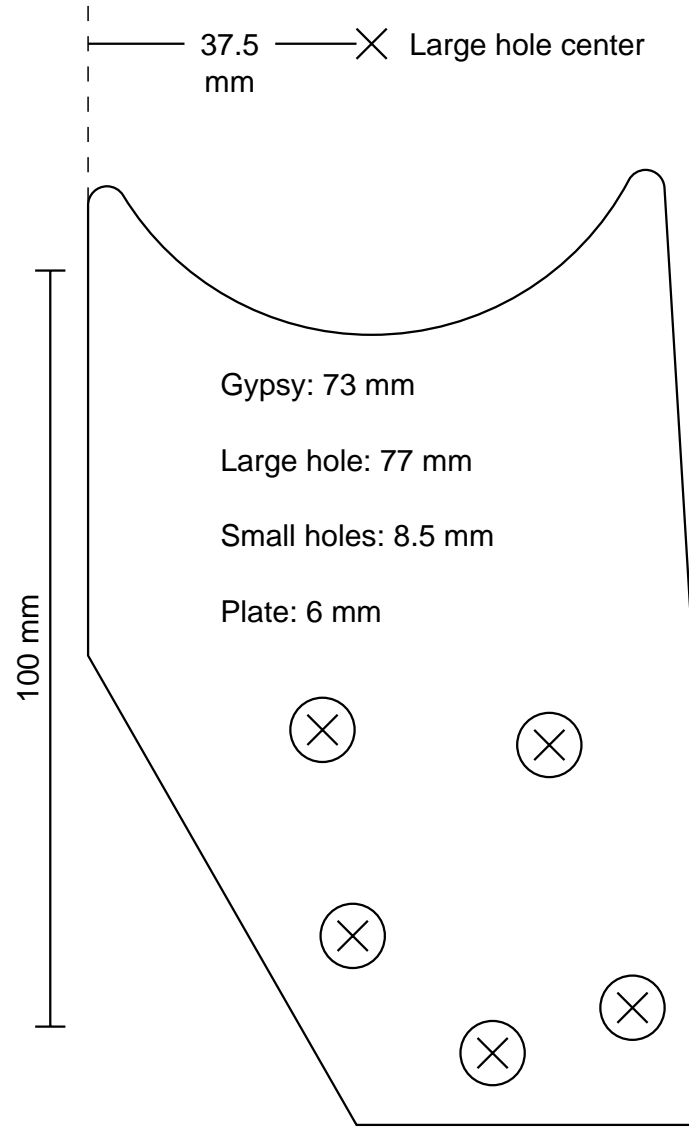
71 mm Gypsy



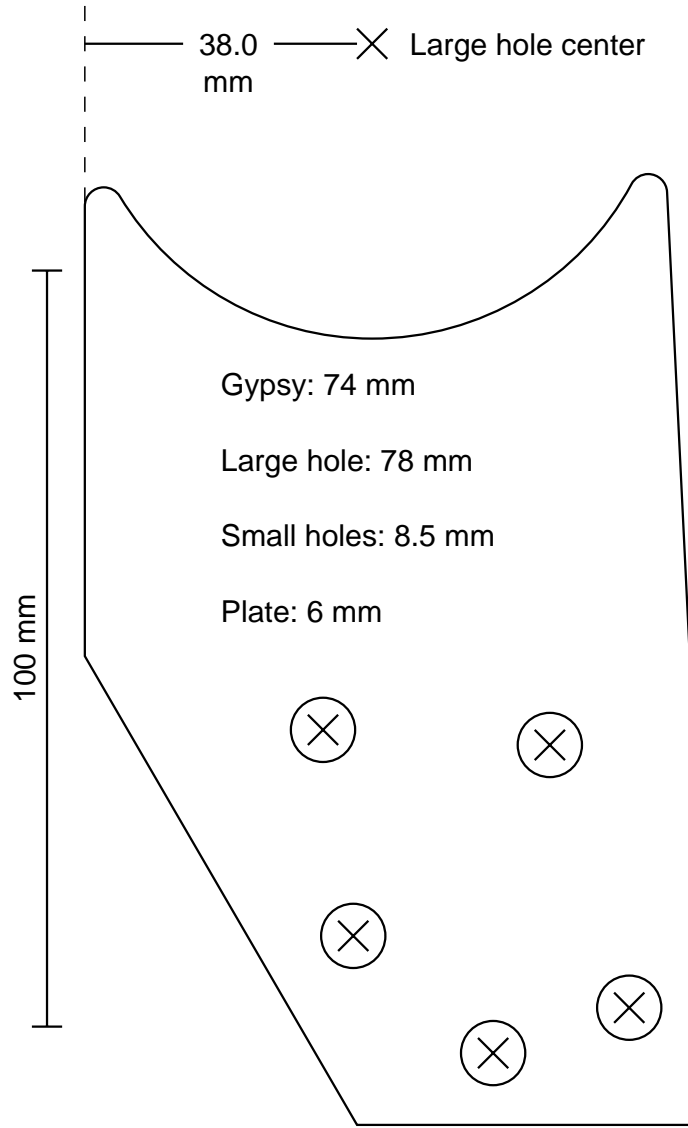
72 mm Gypsy



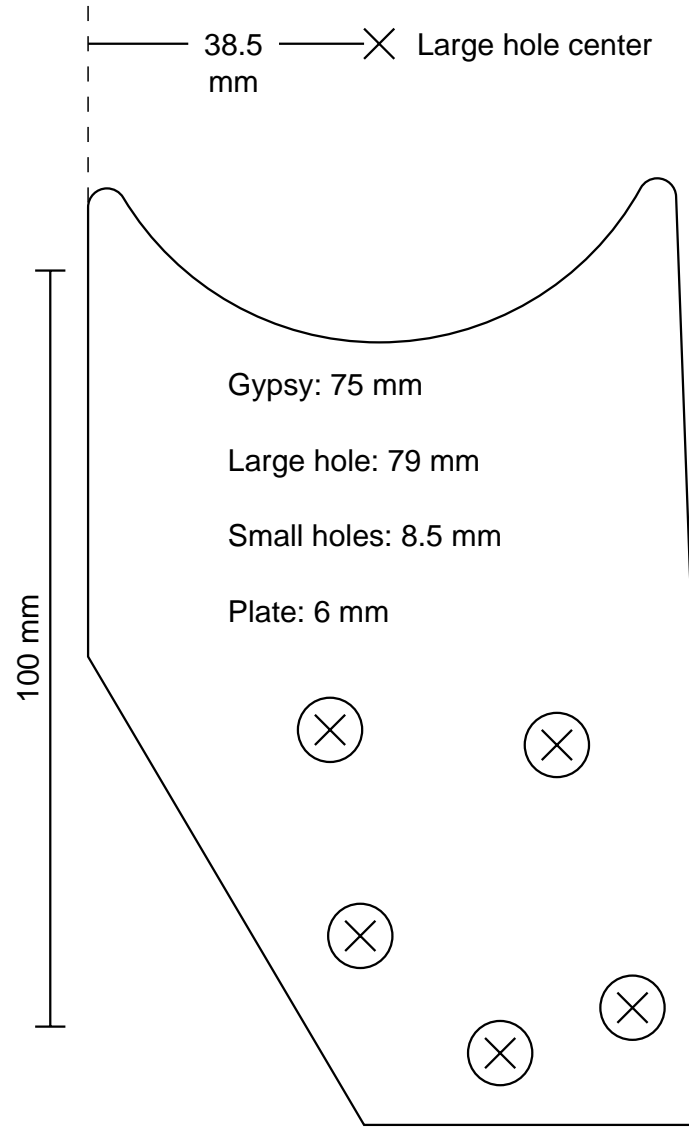
73 mm Gypsy



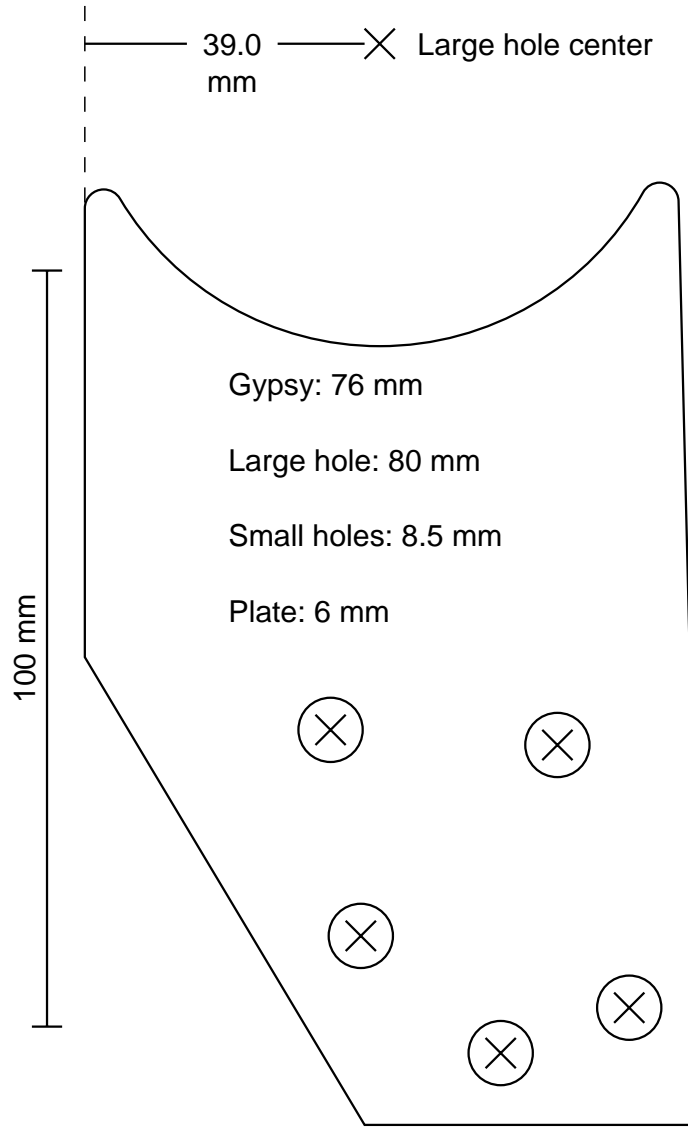
74 mm Gypsy



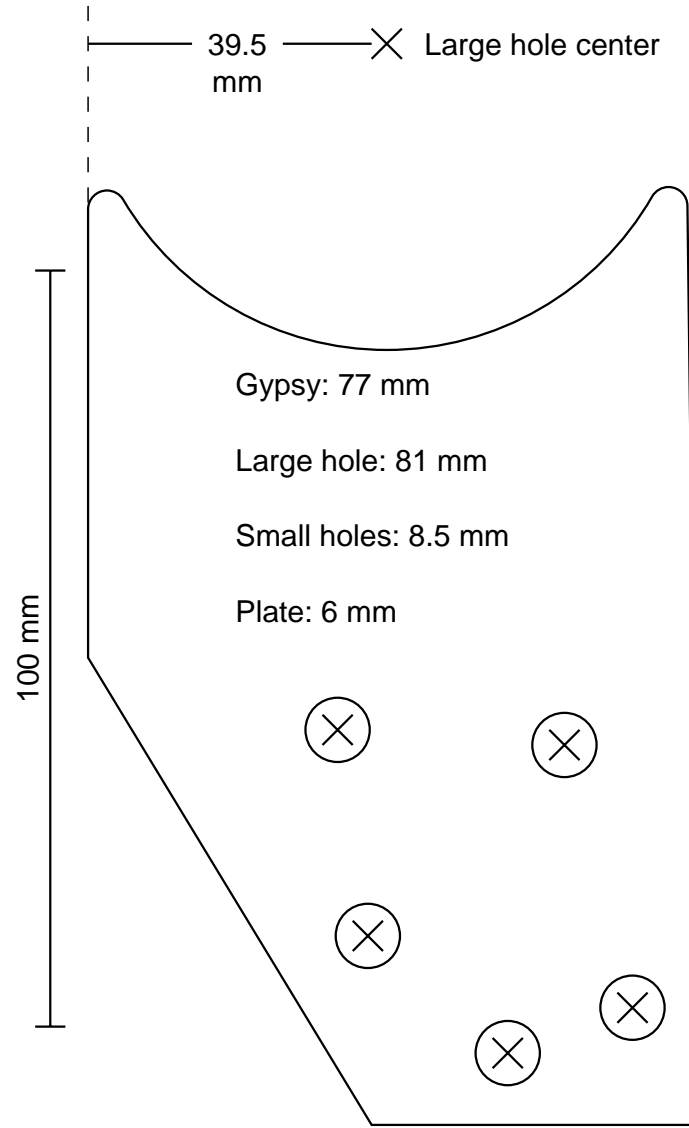
75 mm Gypsy



76 mm Gypsy



77 mm Gypsy



78 mm Gypsy

