

# CNC Router

Patrick Sorn

Version 2.0

## Contents

<b>1</b>	<b>Introduction</b>	<b>2</b>
<b>2</b>	<b>Portal</b>	<b>3</b>
2.1	Spindle X mount . . . . .	3
2.1.1	Base Plate . . . . .	3
2.1.2	Front Plate . . . . .	4
2.2	Spindle Y mount . . . . .	4
2.2.1	Side Plate . . . . .	4
2.2.2	Rear Plate . . . . .	5
2.3	Spindle Z Mount . . . . .	7
2.3.1	Main . . . . .	7
2.3.2	Upper . . . . .	8
2.3.3	Lower . . . . .	9
2.3.4	Drill Mount . . . . .	10

# 1 Introduction

## 2 Portal

### 2.1 Spindle X mount

#### 2.1.1 Base Plate

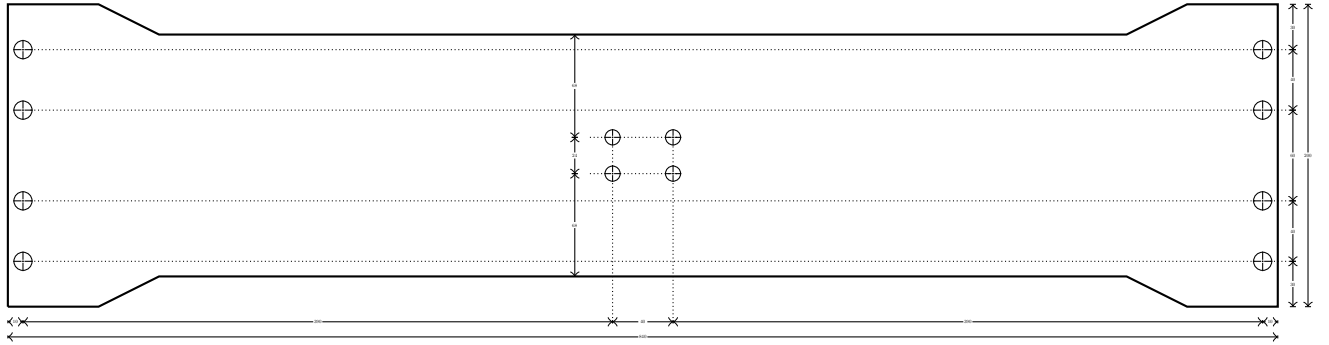


Figure 1: Base Plate.

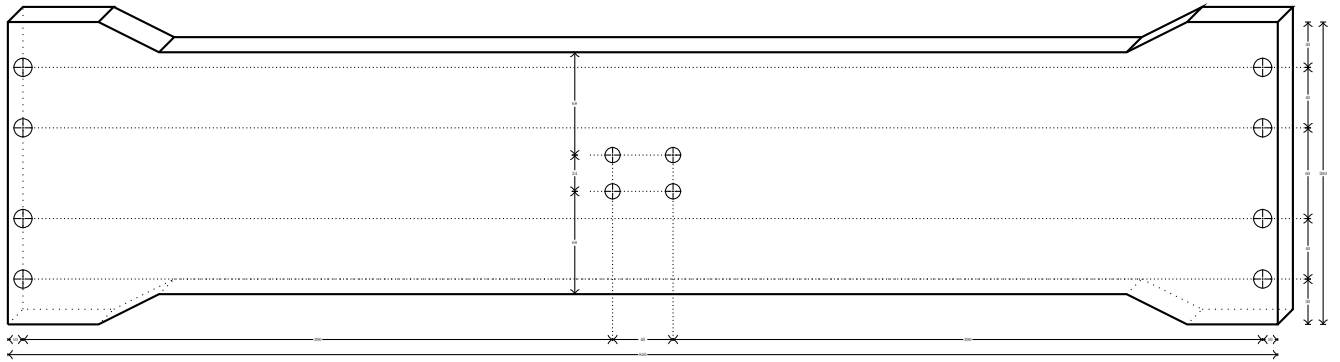


Figure 2: Base Plate 3D.

### 2.1.2 Front Plate

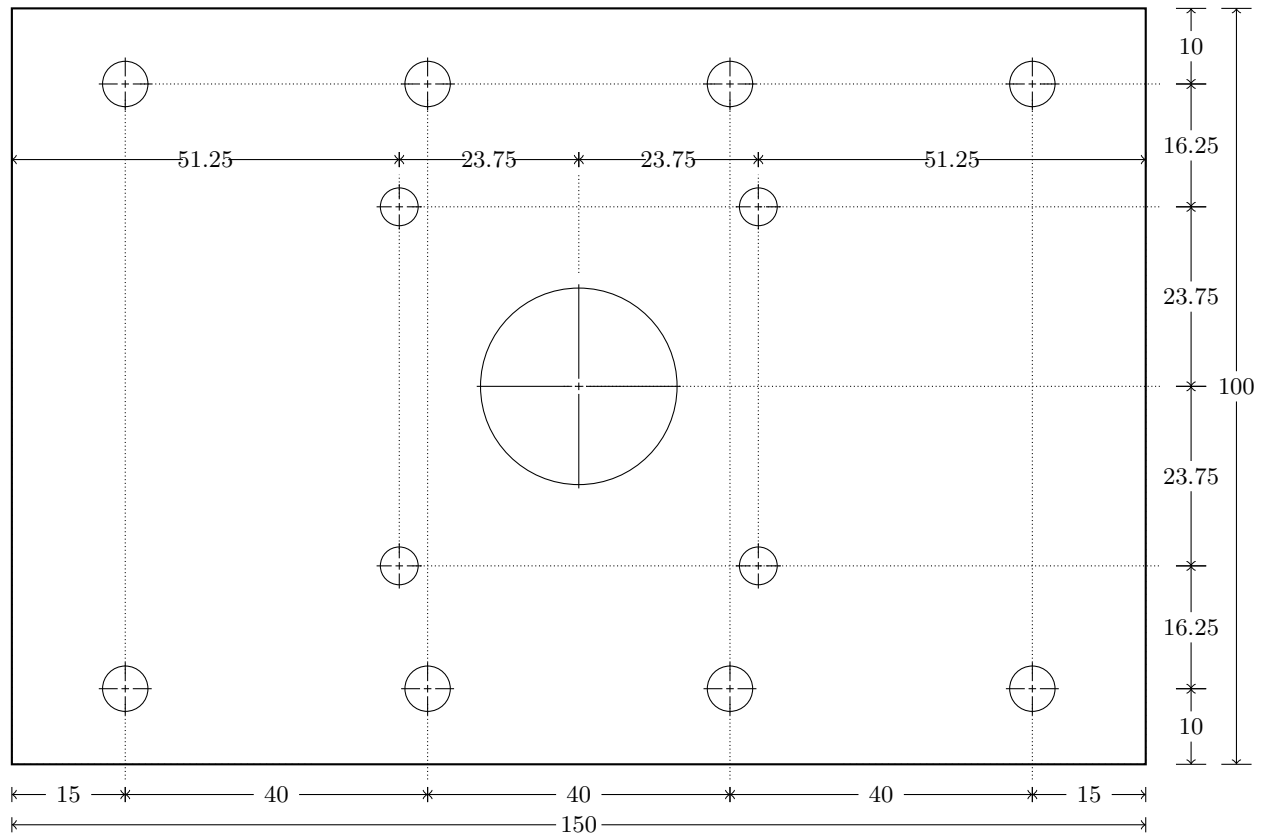


Figure 3: Front Plate.

## 2.2 Spindle Y mount

### 2.2.1 Side Plate

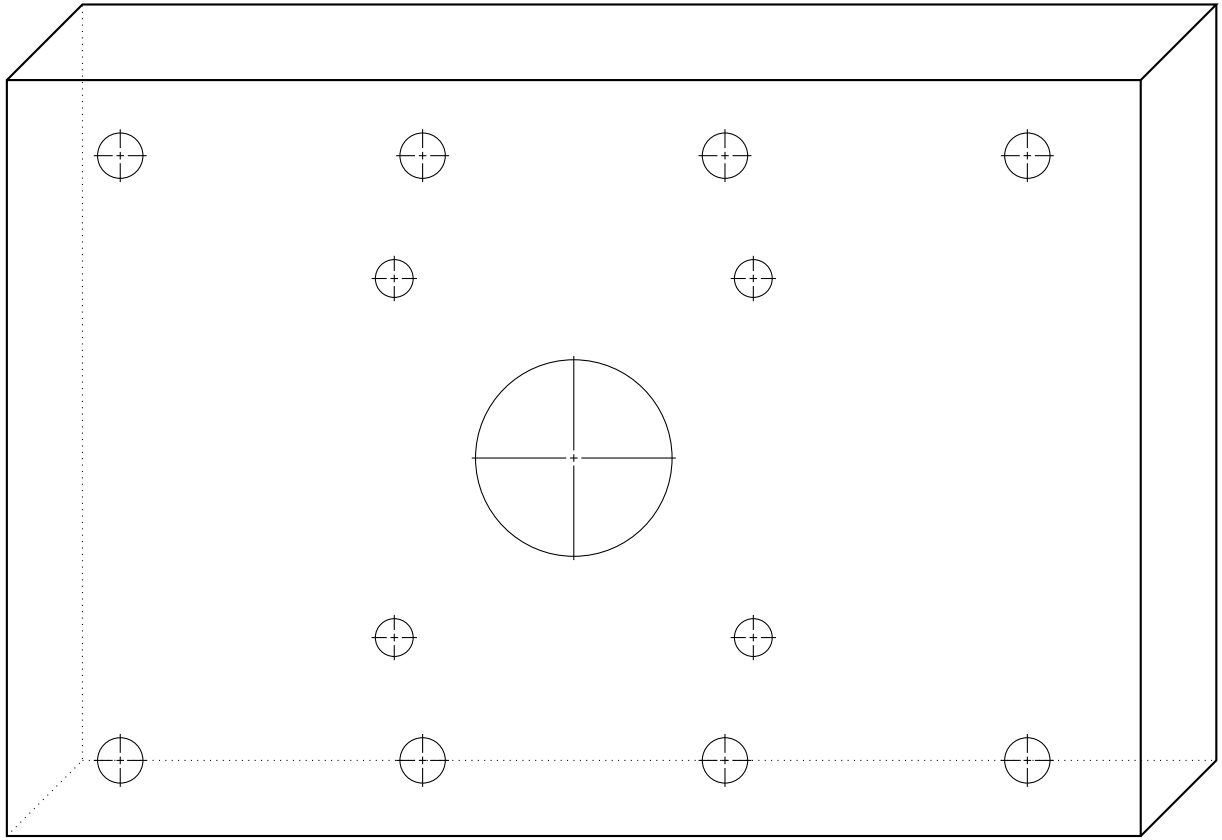


Figure 4: Front Plate 3D.

### 2.2.2 Rear Plate

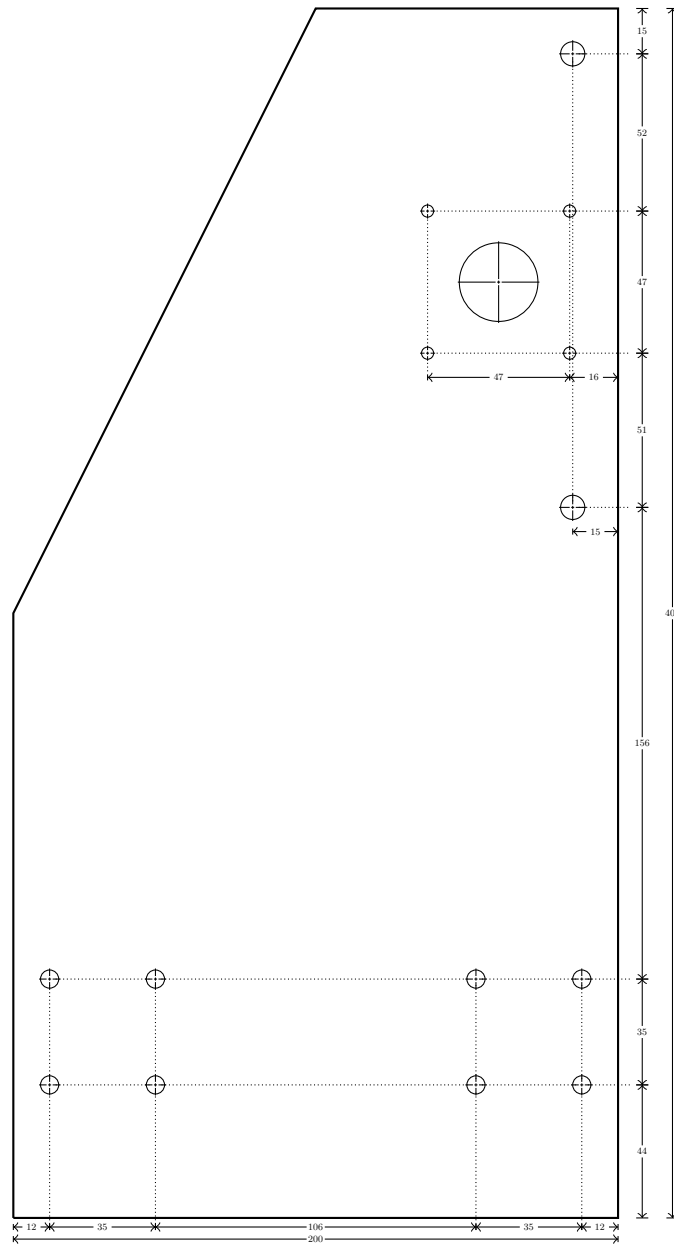


Figure 5: Side Plate.

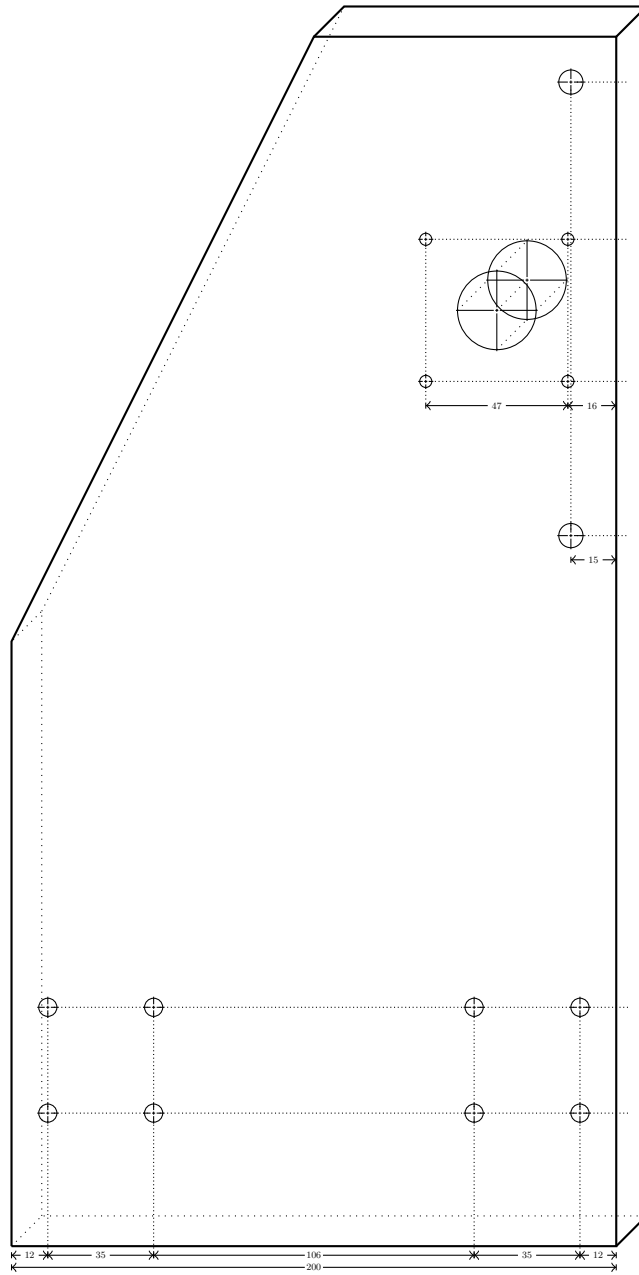


Figure 6: Side Plate 3D.

## 2.3 Spindle Z Mount

### 2.3.1 Main

KPF-S 20 has been used as linear mount.

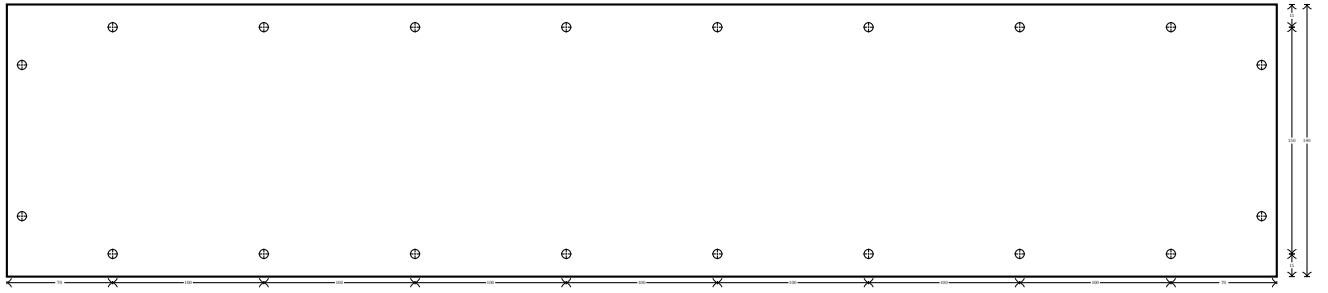


Figure 7: Rear Plate.

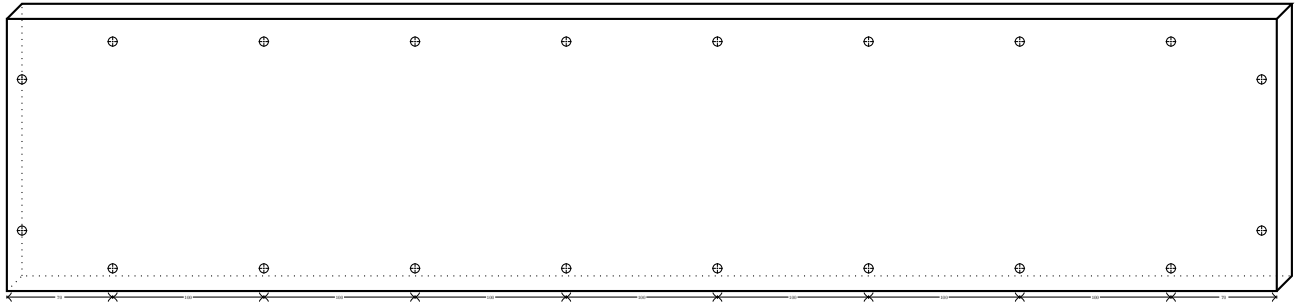


Figure 8: Rear Plate 3D.

### 2.3.2 Upper



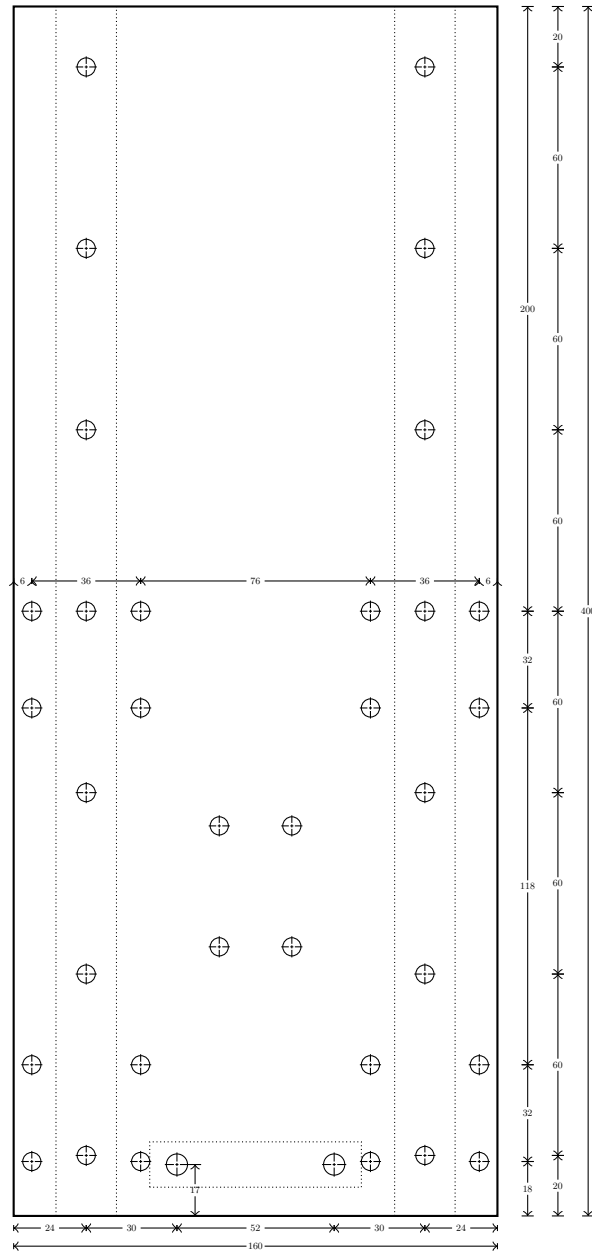


Figure 9: Spindle Z Mount - Main.

### 2.3.3 Lower

Loslager FF12 will be connected to this part.

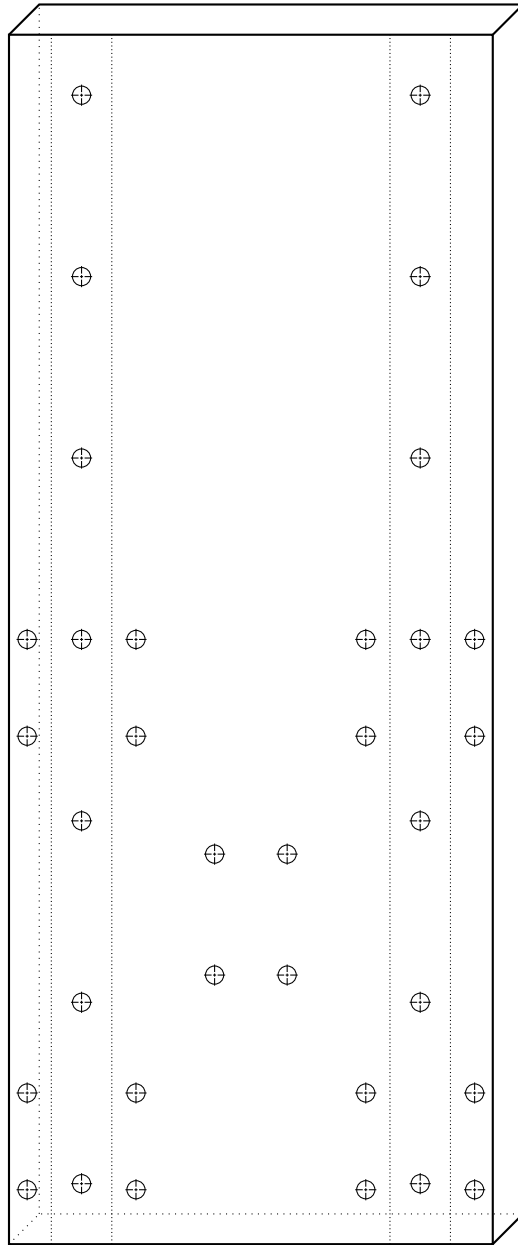


Figure 10: Spindle Z Mount - Main 3D.

#### 2.3.4 Drill Mount

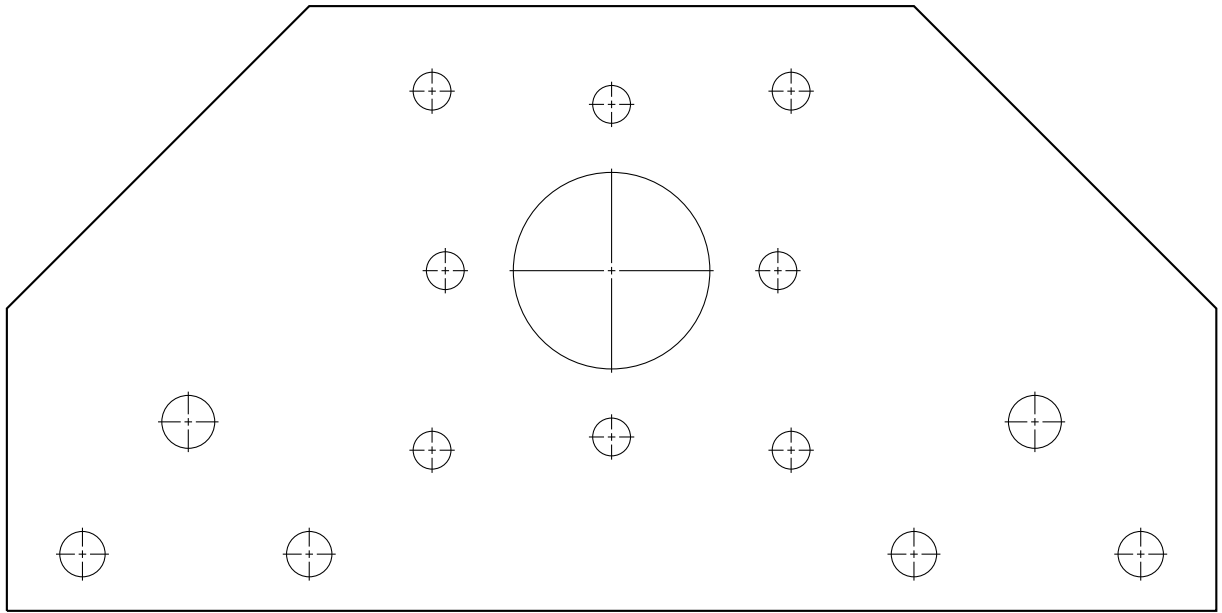


Figure 11: Spindle Z Mount - Upper.

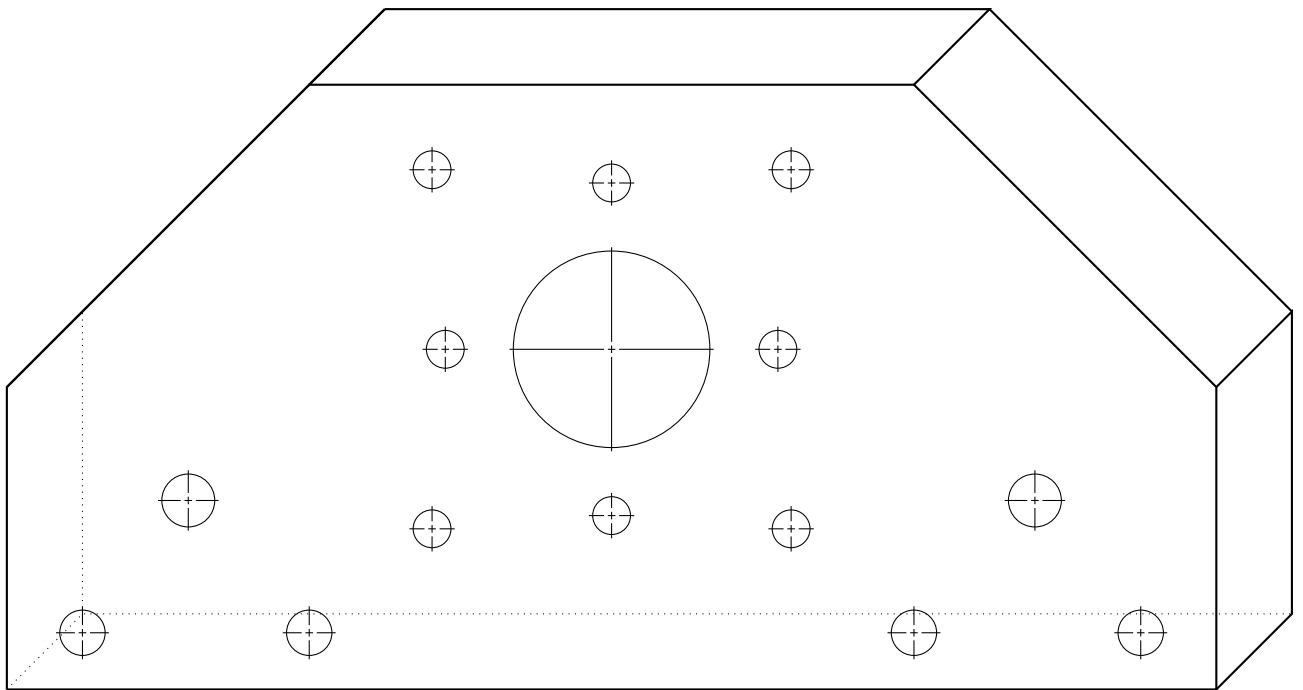


Figure 12: Spindle Z Mount - Upper 3D.

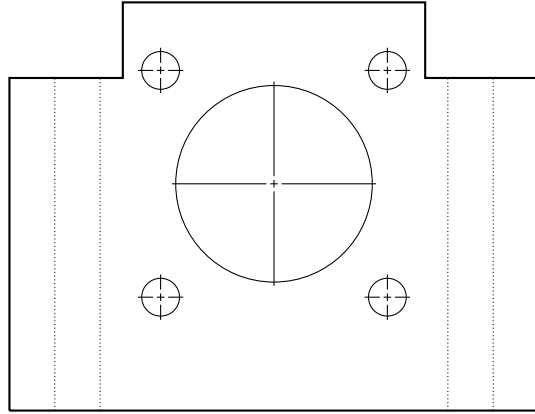


Figure 13: Spindle Z Mount - Lower.

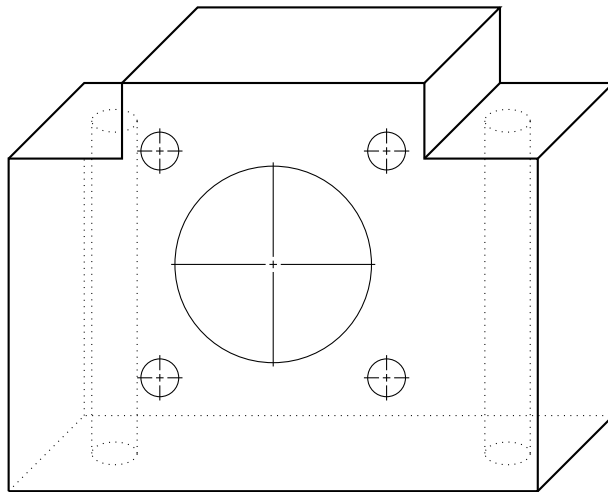


Figure 14: Spindle Z Mount - Lower 3D.

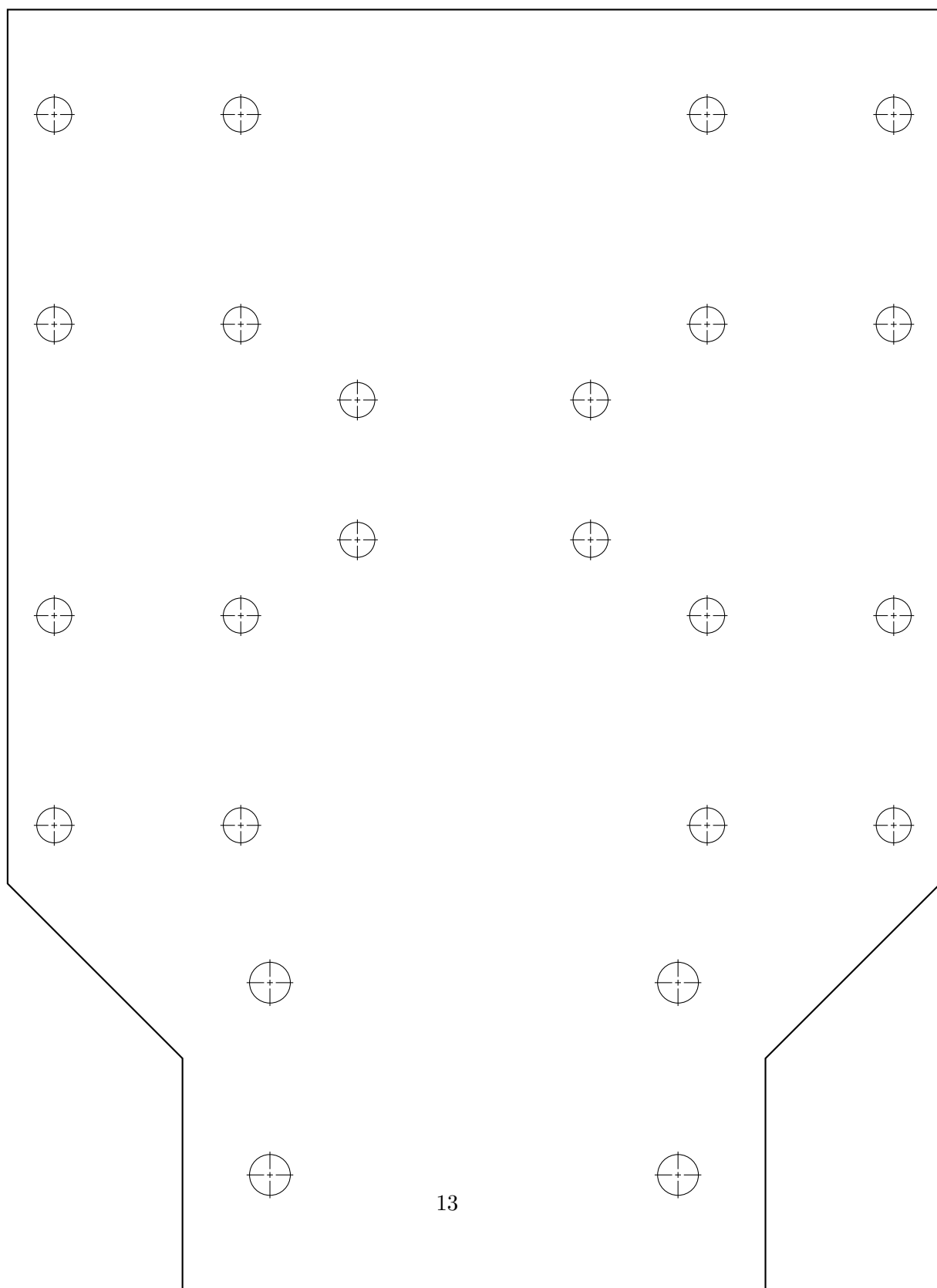


Figure 15: Drill Mount.

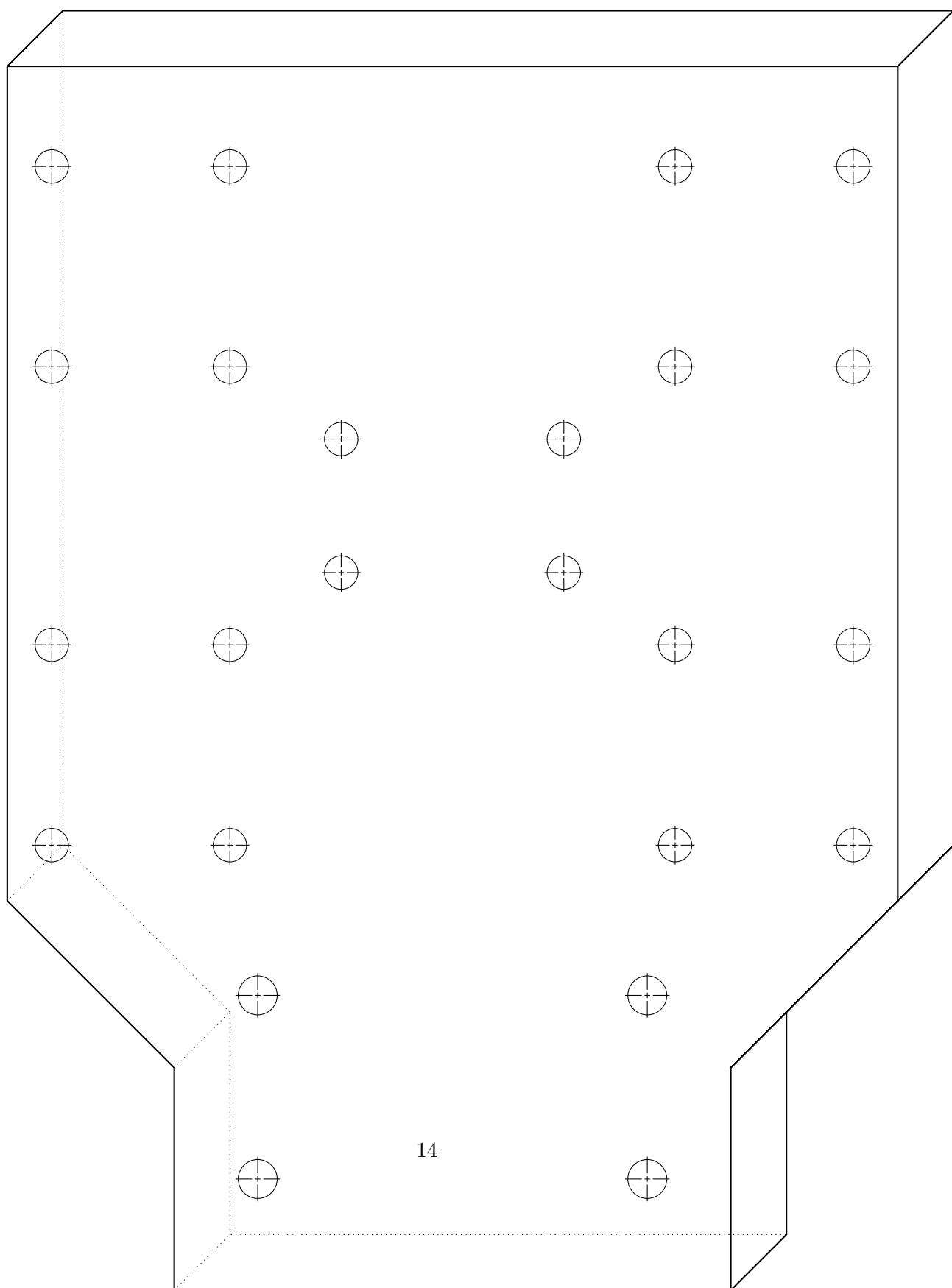


Figure 16: Drill Mount 3D.

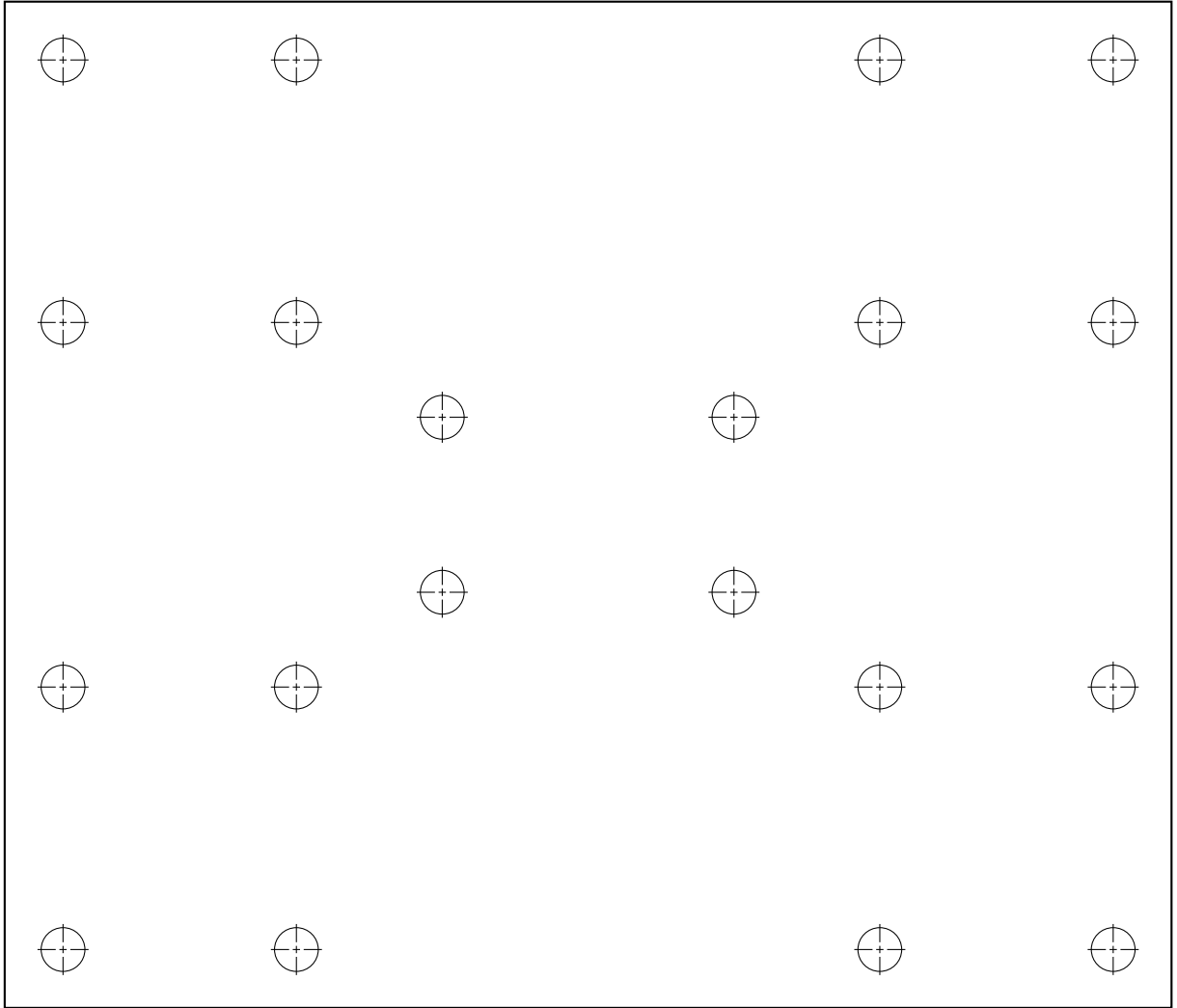


Figure 17: Drill Mount Support Plate.