MPCNC – Alan Reiner

Start: <https://www.youtube.com/watch?v=VFPeR6i1BvE>

Upgrades: https://www.youtube.com/watch?v=VSWpaRQtn3E

Electronic’s Enclosure

<https://www.printables.com/model/682484-mpcnc-foldable-jackpot-enclosure-box>

Fullsize Limit Switches

<https://www.printables.com/model/682569-mpcnc-full-size-endstop-adapter>

Backlash

https://www.printables.com/model/729791-printable-anti-backlash-fixture-for-dual-tr8-leads

HGR15 Linnear rail

2020 Aluminum Extrusion

# Project Ideas

CNC

- Glass Mold making

# MPCNC

<https://docs.v1e.com/mpcnc/calculator/#tool-choice>

#### Workspace

24 X

13 Y

3.25 Z

#### Tubes

| **Length (inches)** | **Qty** | **Name** |
| --- | --- | --- |
| 36.25 | 2 | x rails, sides |
| 34.25 | 1 | x rail, gantry |
| 25.75 | 2 | y rails, sides |
| 23.5 | 1 | y rail, gantry |
| 10.75 | 2 | z rails |
| 2.5 | 4 | legs |
| 215 | **total needed** | total tube length assuming 3mm kerf |

#### Material Dimensions[¶](https://docs.v1e.com/mpcnc/calculator/#material-dimensions)

| **Length (inches)** | **Qty** | **Name** |
| --- | --- | --- |
| 5.25 | 1 | leadscrew length |
| ;il/38.25 | 2 | belt length along x |
| 27.75 | 2 | belt length along y |
| 131.75 | **total length** | belts (all 4) |

#### Table Size[¶](https://docs.v1e.com/mpcnc/calculator/#table-size)

| **Length (inches)** | **Name** |
| --- | --- |
| 35 | x table size (outer edges of feet) |
| 24.25 | y table size (outer edges of feet) |

#### Total Machine Footprint[¶](https://docs.v1e.com/mpcnc/calculator/#total-machine-footprint)

| **Length (inches)** | **Name** |
| --- | --- |
| 39 | x |
| 28.25 | y |
| 16 | z |
| 21.75 | clearance to remove z axis |