

D

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Main Arms

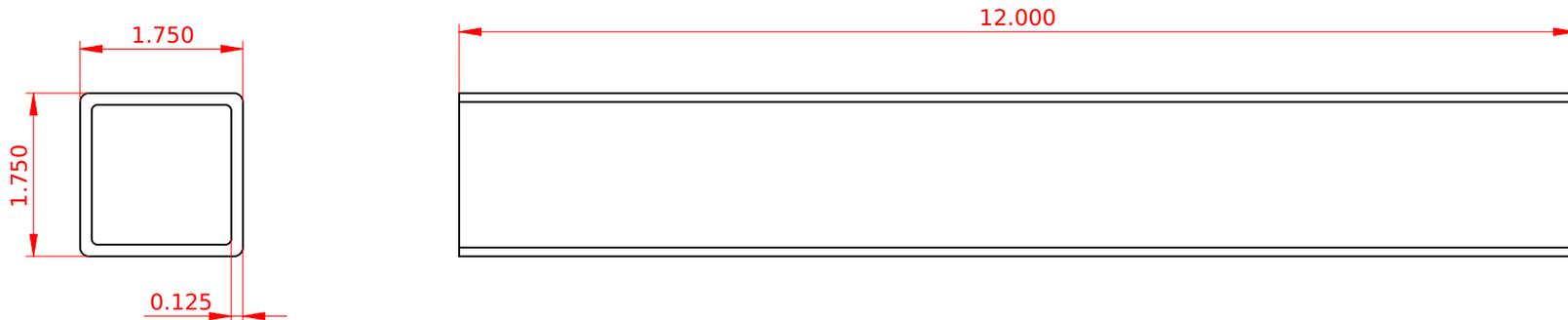
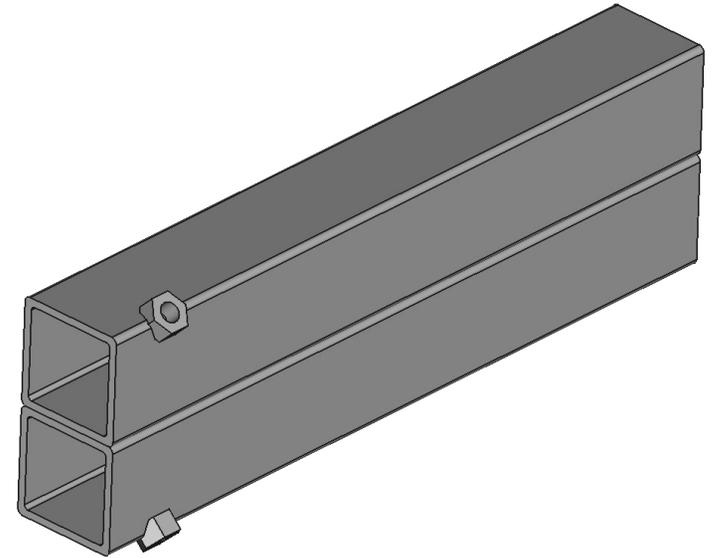
1.75 x 1.75 x .125"
mild steel tubing
(2 pieces)

Notes:

1.75" square tubing is an odd size, which I just happened to have on hand, scavenged from an exercise / weight machine. With a .125" wall thickness, this tubing can accept 1.5" square tubing (a far more common size) with minimal play. 2 x 2 x .25" tubing would be a good alternative, with the advantage of rigidity and less warping during welding, but with the disadvantage of increasing the overall weight. With either size of tubing, the welding seam must be removed. If I were to do this again, I would lengthen these tubes to 13" or 14" - the 12" shown and as built is adequate but minimal.

Assembly:

As shown in the picture to the right, two pieces of tubing are placed face-to-face and welded together (skip welding recommended). As shown in the picture to the right, a flat is filed and 3/8-16 nuts are welded 1" from the ends on the upper and lower corners. The tubing is drilled 5/16" through the nuts and the tubing is tapped to continue the 3/8-16 threads of the nuts.



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Designed by

Andrew H. Wakefield

Scale

1:2

Default Dim.

+/- .005"

Title

Belt Grinder

Sheet

1

Revision

1

Date

6/8/2021

D

C

B

A