

I've been working on a slightly different configuration to apply more force.



This moves the pivot point out closer to the cheese center, thus allowing more force. Positions A through G are for the push rod, and notches 1 through 6 are for weights. Each are on one inch centers, but could be more closely spaced if needed.

The attachment of the vertical bar to the base would have to be a little beefier to withstand the additional torque, but that's not hard to do. The hinge block moves up and down the vertical bar for different mold heights, and there could also be different length push rods to accomplish the same thing. A push rod could also be threaded for a fine adjustment.

This configuration yields a force table shown below. The table lists the force multiplier for each combination of weight and push-rod positions.

CHEESE PRESS FORCE MULTIPLIER						
	1	2	3	4	5	6
A	9.0	10.0	11.0	12.0	13.0	14.0
B	4.5	5.0	5.5	6.0	6.5	7.0
C	3.0	3.3	3.7	4.0	4.3	4.7
D	2.3	2.5	2.8	3.0	3.3	3.5
E	1.8	2.0	2.2	2.4	2.6	2.8
F	1.5	1.7	1.8	2.0	2.2	2.3
G	1.3	1.4	1.6	1.7	1.9	2.0

At the highest multiplier, a 15 pound weight would yield 210 pounds of force. If you want a higher force we could build a compound lever arrangement similar to the reference you sent.

We really need to determine the maximum force desired, then we can look at an optimum design to yield that force.