PAUL HOWARD FLUTING JIG PLANNER V01.1

4. INDEX PLATE STANDARD SETTINGS

1. Router Cutter diameter: **8.00** mm

Smallest Radius: **55.00** mm

Working circumference: **345.57** mm

60 Position Holes

	Cutter Space	Gap Space	Gap Size
60	480.00	-134.43	-2.24
30	240.00	105.57	3.52
20	160.00	185.57	9.28
15	120.00	225.57	15.04
12	96.00	249.57	20.80
6	48.00	297.57	49.60
5	40.00	305.57	61.11
3	24.00	321.57	107.19

36 Position Holes

	Cutter Space	Gap Space	Gap Size
36	288.00	57.57	1.60
18	144.00	201.57	11.20
12	96.00	249.57	20.80
9	72.00	273.57	30.40
6	48.00	297.57	49.60
4	32.00	313.57	78.39
3	24.00	321.57	107.19

2. Iteration quick guide:

	Cutter Space	Gap Space	Gap Size
10	80.00	265.57	26.56
20	160.00	185.57	9.28
30	240.00	105.57	3.52
40	320.00	25.57	0.64
50	400.00	-54.43	-1.09
60	480.00	-134.43	-2.24

Results in red will breakthrough

48 Position Holes

	Cutter Space	Gap Space	Gap Size
48	384.00	(38.43)	(0.80)
24	192.00	153.57	6.40
16	128.00	217.57	13.60
12	96.00	249.57	20.80
8	64.00	281.57	35.20
6	48.00	297.57	49.60
4	32.00	313.57	78.39
3	24.00	321.57	107.19

14 Position Holes

	Cutter Space	Gap Space	Gap Size
14	112.00	233.57	16.68
7	56.00	289.57	41.37

Results in red will breakthrough

3. Custom iterations: **30**

Cutter Space	Gap Space	Gap Size
240.00	105.57	3.52

NOTES:

Section 1 -   This is the base data for your project.
Enter the router cutter diameter and the smallest radius of the project. For a platter this will be the inner limit of your intended cut.
Fore spindle work the radius of the spindle. The working circumference is automatically calculated.

Section 2 -   The Quick Iteration Guide is automatically generated to give a quick idea of the boundaries of the range of cuts. Output in red indicates that cuts will break through and merge, which is not normally desirable.

Section 3 -   Section 3 provides calculations for a bespoke number of iterations. (Doesn't mean your index plate can deliver it!)
Enter the desired number of iterations and the calculations are performed automatically.

Section 4 -   This section provides common permutations of data for the Paul Howard Index Plate. Output in red indicated that cuts will break through and merge.
This section is not exhaustive, there are many possible permutations.

Definitions: Cutter space = The number of iterations multiplied by the cutter diameter.
Gap space   = The working circumference minus the cutter space.
Gap size   = The standard distance between iterations.