Andy Newton's wish list (2007):

- 1. Chromatic: All 12 chromatic notes should be playable as simple draws or blows or draw bends.
- 2. Straight major scale: At least one major scale should be playable with just blow and draw notes.
- 3. Octave repetition: The pattern of blow and draw notes should be repeated the same in every octave.
- 4. Direction: Notes should get higher from left to right, and from blow to draw in each hole.

Andy Newton showed that there are only three ways to satisfy these four properties:

- a 5-hole-octave pattern that plays 4 major keys without bends (fourkey tuning),
- another 5-hole-octave pattern that plays 2 major keys (twokey tuning),
- a 6-hole-octave pattern that has no bends (chromatic tuning).

Information about fourkey harmonicas is available at http://4keyharps.wordpress.com/

10.3 layout in C, modified at hole 10 (available in all keys from Seydel)

_	1	2	3	4	5	6	7	8	9	10
blow	D	F	G	A	C	D	F	G	A	C
draw	E	F#	Ab	В	Db	E	F#	Ab	В	D
bend	Eb			Bb		Eb			Bb	Db

First major p	osition
---------------	---------

bend										
draw	3			7		3			7	2
blow	2	4	5	6	1	2	4	5	6	1

,,	,	~~~~~~~~~	Blows, Draws, & Bends on a C fourkey

G

В

D

A

 \boldsymbol{E}

Bb

Ab

C#

Eb

Second	m 2101	position
SCCOIIG	majoi	DOSITION

blow	5		1	2	4	5		1	2	4
draw	6	7		3		6	7		3	5
bend						 				

Third major position

blow	1		4	5		1		4	5	
draw	2	3		6	7	2	3		6	1
bend										7

Fourth major position

blow	4			1		4			1	
draw	5	6	7	2	3	5	6	7	2	4
bend						 				3

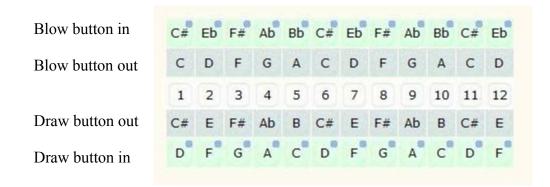
Fouth minor position

blow	4	6	7	1	3	4	6	7	1	3
draw	5		7#	2		5		7#	2	4
bend										

12.3 layout in Eb (Db, D, Eb, E, F available in Seydel Solo Pro 12 Steel)

_	1	2	3	4	5	6	7	8	9	10	11	12
blow	F	Ab	Bb	C	Eb	F	Ab	Bb	C	Eb	F	Ab
draw	G	A	В	D	E	G	A	В	D	E	G	A
bend	F#			Db		F#			Db		F#	

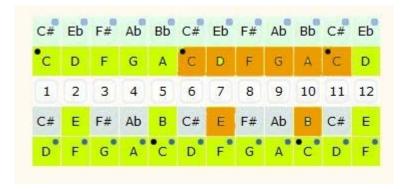
LeGato tuning: Fourkey's Big Brother!



C major scale breath-simple (all draw notes)



C major scale button-simple (all button out)



More at http://home.comcast.net/~rbmy/fourkeyintrod.pdf