S1. Generation of the FE models

In the following sections the ANSYS APDL scripts needed for generating the FE model of a disc with semi-elliptical notch are reported, alongside a graphical explanation of the input parameters. After that, the information concerning the applied Boundary Conditions and the detailed information about each FE model are reported. Finally, the information about hyperbolic notches are presented.

S1.1. APDL for generating a semi-elliptical notch in 2D

```
/PREP7

!*****************************************************
/COM, data
pacmanOX = 5                ![mm] X-coordinate for disk center
pacmanR  = 5                ![mm] radius of the disk
roh = 1                     ![mm] notch tip radius
geom = 'ell1'
notchW = 5                  ![mm] half-width of the notch ellipse
innerMeshRadius = 1         ![mm] radius of the inner circle
keepHalfPacman = 0          ! 1:yes, 0:no

notchH = (roh*notchW)**0.5 ![mm] half-heigth of the notch

coronaDiv           = 40
externalRadDiv      = 50
externalRadSR       = 5
innerRadDiv         = 100
innerRadSR          = 10
!*****************************************************

/COM, create lines
K,,pacmanOX,0,0
CIRCLE,1,innerMeshRadius

/COM, create areas
CYL4,pacmanOX,0,pacmanR
CYL4,0,0,notchH
ARSCALE,2, , ,notchW/notchH,1,1, ,0,1

/COM, divide pacman center with inner Radius
LSEL, S,,,1,4,1
ASBL, 1, ALL

/COM, remove notch-area from pacman
AOVLAP,ALL
ADELE,1
ADELE,6,7,1

/COM, segment areas
```

```
L,10,2
L,3,7
L,2,6
L,5,9
LSEL, S,,,2,6
LSEL, A,,,5,8
ASBL, ALL, ALL

/COM,delete lower half of Pacman, if requested
*IF, keepHalfPacman, EQ, 0, THEN
ADELE,6,7
ADELE,3

!*****************************************************
/COM, perform mesh

LSEL, S,,,5
LSEL, A,,,1
LESIZE,ALL, , ,coronaDiv,1, , , ,1

LSEL, S,,,25
LSEL, A,,,17
LESIZE,ALL, , ,coronaDiv/2,1, , , ,1

LSEL, S,,,3
LSEL, A,,,6
LSEL, A,,,23
LESIZE,ALL, , ,externalRadDiv,externalRadSR, , , ,1

LSEL, S,,,2
LSEL, A,,,15
LESIZE,ALL, , ,innerRadDiv,innerRadSR, , , ,1

*ENDIF

/COM, create element
ET,1,PLANE183

AMESH, ALL

/COM, save model info
*GET, E_COUNT, ELEM,,COUNT
*GET, N_COUNT, NODE,,COUNT
```

S1.2. Description of the input parameters for the 2D APDL

In Figures S1 and S2 a graphical representation of the APDL script input is shown, while Table S1 is complementary to Figure S2.

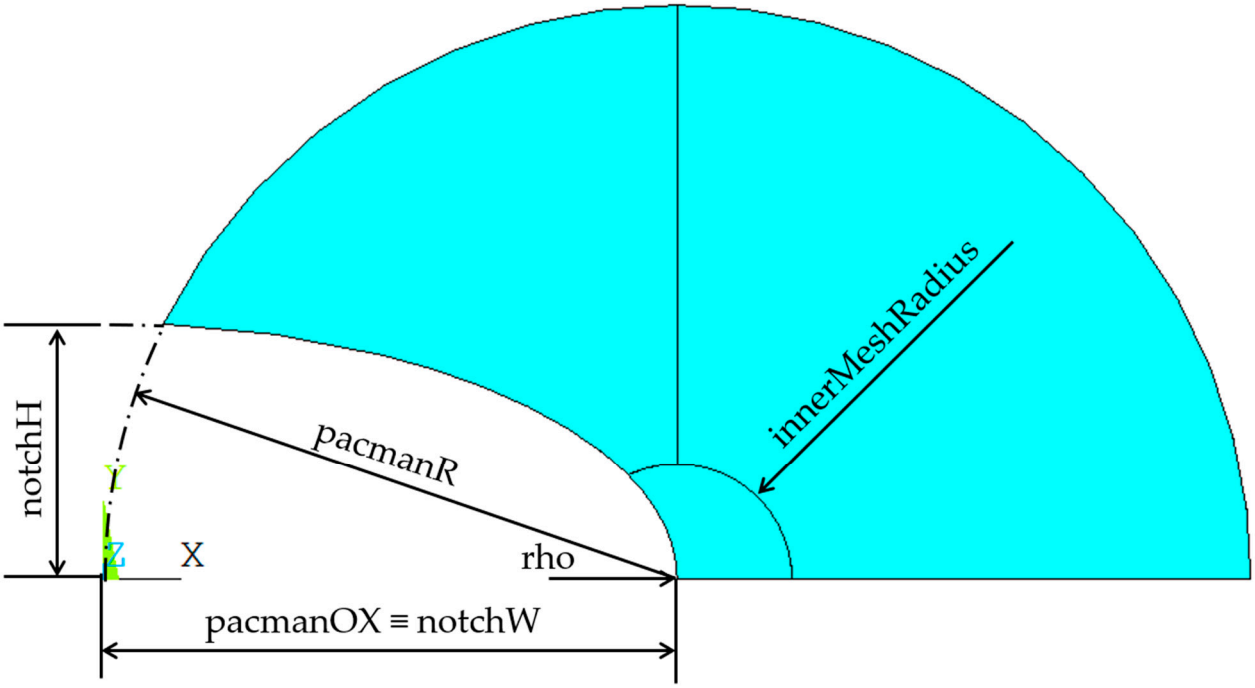


Figure S1. Graphical representation of the input for the APDL script.

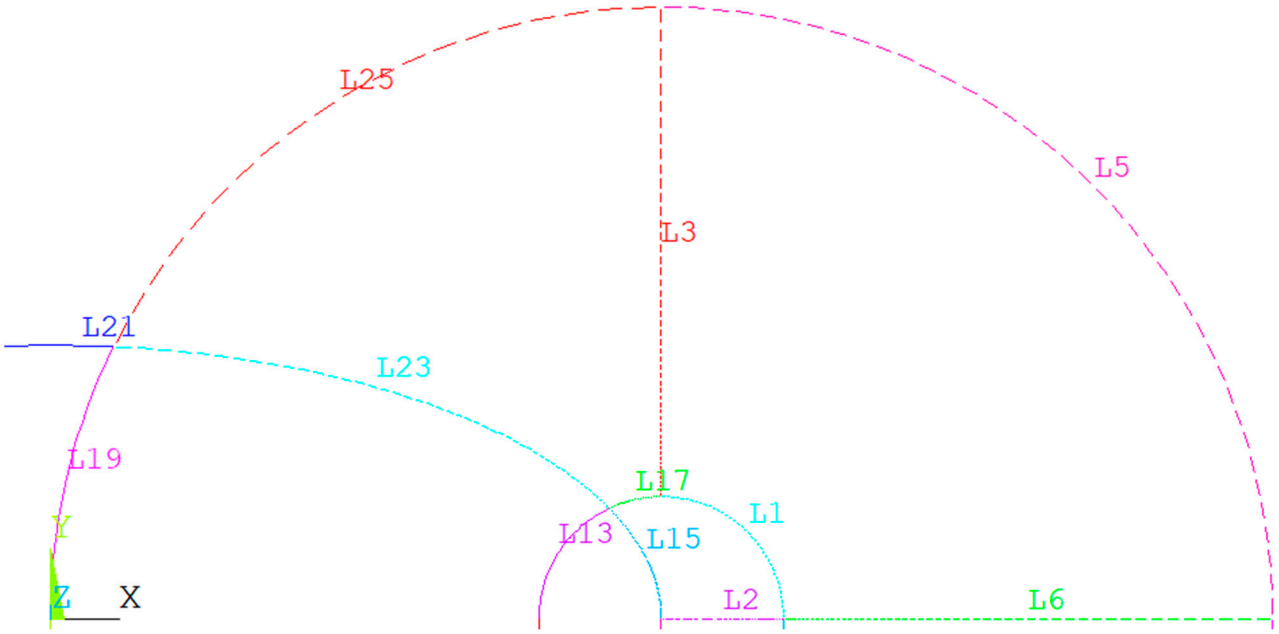


Figure S2. Graphical representation of the input for the APDL script.

Table S1. Properties of the materials used in the numerical analyses.

Line	Number of elements	Spacing ratio
5	coronaDiv	1
1	coronaDiv	1
25	coronaDiv/2	1
17	coronaDiv/2	1
3	externalRadDiv	externalRadSR
6	externalRadDiv	externalRadSR
23	externalRadDiv	externalRadSR
2	innerRadDiv	innerRadSR
15	innerRadDiv	innerRadSR

S1.3. APDL for extruding the model to a 3D thick plate

```
/COM, set options
ettt = 30        !Number of elements through-the-thickness
sprat = 60       !Spacing ratio
plthick = 1      ![mm] Plate thickness: it will be divided by 2

/COM, set element type
ET,2,SOLID186

/COM, set extrude options
TYPE,   2   !Element type 2
EXTOPT,ESIZE,ettt,sprat,
EXTOPT,ACLEAR,1    !Delete area upon extrusion

EXTOPT,ATTR,0,0,0
MAT,1
REAL,_Z4
ESYS,0

/COM, Extrude volumes
ASEL,ALL
VEXT,ALL, , ,0,0,plthick/2,,,,

/COM, save model info
*GET, E_COUNT, ELEM,,COUNT
*GET, N_COUNT, NODE,,COUNT
```

S1.4. Output of the APDL scripts

In Figure S3 the model obtained from running the two APDL scripts is represented. Relevant properties for through-the-thickness meshing are shown in the first lines of the previous section, alongside comments for describing their meaning. For the 2D model ANSYS free-mesher was used, with the properties reported into the script. Eventually, it resulted in a mapped mesh for the elements at a distance greater than innerMeshRadius from the disc center.

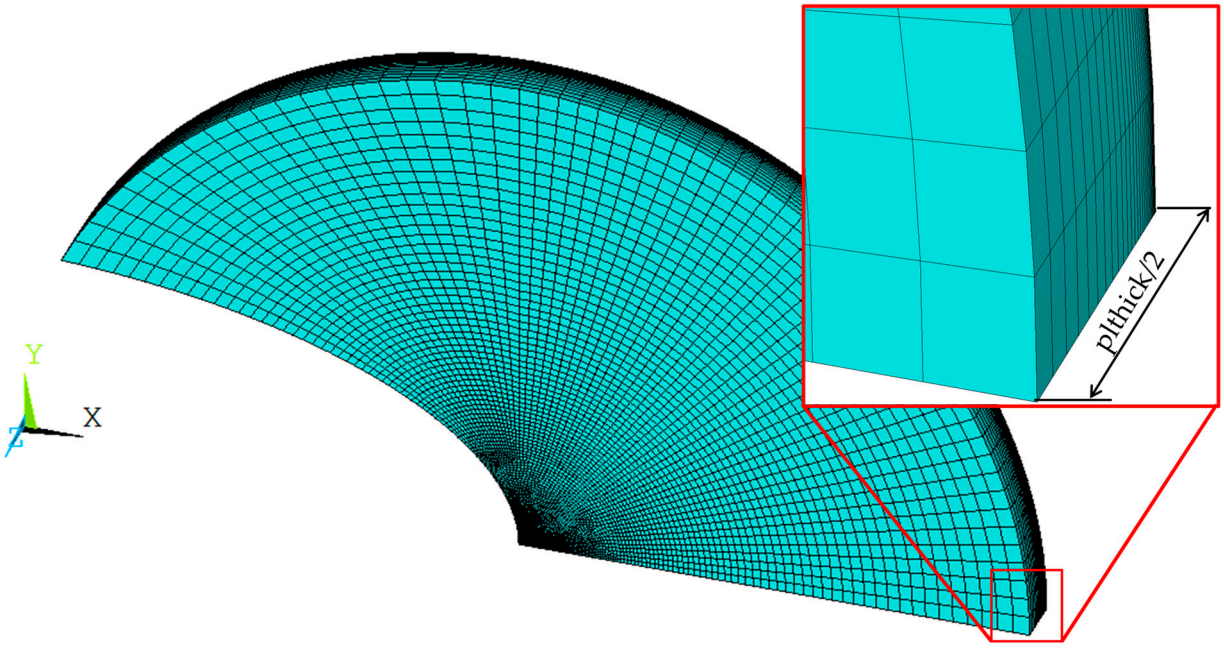


Figure S3. Graphical representation of the complete FE model of the semi-elliptical notch, generated with the scripts reported above.

S1.5. Application of the Boundary Conditions

The loads were applied as nodal displacements on the circular boundary of the disk. In more detail, nodal coordinates of the boundary were collected in ANSYS APDL and, by means of an external script, the displacements to be applied were evaluated according to the expressions reported in the Appendix A of the paper. Eventually, another APDL script was used to apply the nodal displacements.

For simulating Mode 2, the symmetry of the model was exploited. Symmetry boundary conditions were applied to the XY face of the model, at Z-coordinate equal to plthick/2. In fact, within this Supplementary Material Z=0 identifies a disk external surface. Anti-symmetry was applied to the nodes lying on the plane XZ.

For simulating Mode 3, only the anti-symmetry of plane XZ was exploited. Hence, the model was mirrored about that face and doubled its size.

S1.6. Modelling of hyperbolic notches

Differently from the case of elliptical notches, no direct modelling of hyperbolic curves is available in ANSYS APDL. To overcome this limitation, each curve was discretized in several points that were later connected with a spline curve. For the rest, the procedure is the same as that previously presented for semi-elliptical notches. The list of keypoints used for each hyperbolic curve is reported in the Appendix S1-A in Tables S1-A1, S1-A2, S1-A3.

For convenience, the center of the disk is placed at a distance r_0 from the notch tip, as per Figure 2(c).

S1.7. Modelling parameters for each notched geometry

The parameters used for modelling each geometry are reported in Tables S2 and S3.

S1.8. Post processing ADPL

To provide a full description of the information retrieved from the FE model, the following script reports the operations executed on the model after running the simulation.

```
/POST1

saveName = STRCAT(geom,'_')
saveName = STRCAT(saveName,matId)
saveName = STRCAT(saveName,'_')
saveName = STRCAT(saveName,spost)
saveName = STRCAT(saveName,'_')
saveName = STRCAT(saveName,'t')
saveName = STRCAT(saveName,CHRVAL(plthick))
saveName = STRCAT(saveName,'_')
saveName = STRCAT(saveName,'e')
saveName = STRCAT(saveName,CHRVAL(ettt))
saveName = STRCAT(saveName,'_')
saveName = STRCAT(saveName,'sp')
saveName = STRCAT(saveName,CHRVAL(sprat))


/SYP,MKDIR,saveName
/INQUIRE, curDir, DIRECTORY --
stringDir = curDir(1)
/CWD, JOIN(stringDir,saveName)

/COM, Load results
!SET, FIRST          !Its use depends on the Ansys version

/COM, Save
SAVE,saveName,db,,ALL

/OUTPUT, STRCAT(saveName,'_MPLIST'),txt,,
MPLIST,ALL
/OUTPUT

/COM, update overall node number for following loop
ALLSEL,ALL
*GET, nodeNum,NODE,,COUNT

/COM, Extract nodes from lower surface
ASEL,S,,,8
ASEL,A,,,12
ASEL,A,,,7
ASEL,A,,,15
NSLA,S,1
```

```
/COM, first option generates the usual node list, while the second option creates a list with higher
coordinate precision
*IF 1,EQ,0,THEN
        /OUTPUT, STRCAT(saveName,'_NLIST'),lis,,
        NLIST,ALL
        /OUTPUT
*ELSE
*GET, selNod, NSEL  !get the number of selected nodes
*DIM, nodeTable,TABLE,selNod,4  !create a table only for the selected nodes

NCounter = 0
*DO,i,1,nodeNum
*GET,NisSelected,NODE,i,NSEL,,
*IF,NisSelected,GE,0.99,THEN
                nodeTable(NCounter,1)=i
                *GET,nodeTable(NCounter,2),NODE,i,LOC,X
                *GET,nodeTable(NCounter,3),NODE,i,LOC,Y
                *GET,nodeTable(NCounter,4),NODE,i,LOC,Z
                NCounter = NCounter + 1
*ENDIF
*ENDDO

*MWRITE,nodeTable,STRCAT(saveName,'_NLIST'),lis,,,4,
%I      %f      %f      %f

*ENDIF


/COM, Extract stress components for the nodes
/OUTPUT, STRCAT(saveName,'_PRNSOL'),lis,,
PRNSOL,S,ALL
/OUTPUT

/COM, Extract min SYZ along notch tip
LSEL,S,,,32
NSLL,S,1
/OUTPUT, STRCAT(saveName,'_tip'),txt,,
PRNSOL,S,ALL
/OUTPUT

/SHOW,PNG
EPLOT

/EXIT
```

Table S2. Parameters of the FE models for semi-elliptical notches. notchW = 5mm.

rho [mm]	material	coronaDiv	externalRadDiv	externalRadSR	innerRadDiv	innerRadSR	plthick [mm]	ettt	sprat
1	1	40	50	5	100	10	1	20	40
0.1	1	25	30	5	100	90	1	20	40
0.01	1	25	23	5	100	90	1	20	20
0.01	1	25	23	5	100	90	5	20	20
0.01	1	25	23	5	100	90	10	25	20
0.01	2	25	23	5	100	90	1	40	60
0.01	2	25	23	5	100	90	5	40	80
0.01	2	25	23	5	100	90	10	50	80
0.001	1	25	23	5	100	90	1	40	60
0.001	2	25	23	5	100	90	1	50	80
0.001	3	25	23	5	100	90	1	40	60

Table S3. Parameters of the FE models for hyperbolic notches. notchW = 10mm.

2α[deg]	material	coronaDiv	externalRadDiv	externalRadSR	innerRadDiv	innerRadSR	plthick [mm]	ettt	sprat
45	1	25	23	5	100	90	1	25	80
90	2	25	23	5	100	90	1	30	90
60	3	25	23	5	100	90	1	30	60

Appendix S1-A

Table S1-A1. Keypoints used for generating an hyperbolic notch with opening angle 2α = 90 degrees and radius of the notch tip equal to 0.01mm.

X	Y
0.003333	0
0.003333	0.00001
0.003333	2E-05
0.003333	3E-05
0.003333	4E-05
0.003333	5E-05
0.003333	6E-05
0.003333	7E-05
0.003333	8E-05
0.003333	9E-05
0.003333	0.0001
0.003333	0.00011
0.003333	0.00012
0.003332	0.00013
0.003332	0.00014
0.003332	0.00015
0.003332	0.00016
0.003332	0.00017
0.003332	0.00018
0.003332	0.00019
0.003331	0.0002

0.003331	0.00021
0.003331	0.00022
0.003331	0.00023
0.00333	0.00024
0.00333	0.00025
0.00333	0.00026
0.00333	0.00027
0.003329	0.00028
0.003329	0.00029
0.003329	0.0003
0.003329	0.00031
0.003328	0.00032
0.003328	0.000331
0.003328	0.000341
0.003327	0.000351
0.003327	0.000361
0.003326	0.000371
0.003326	0.000381
0.003326	0.000391
0.003325	0.000401
0.003325	0.000411
0.003324	0.000421
0.003324	0.000431
0.003324	0.000441
0.003323	0.000451
0.003323	0.000461
0.003322	0.000472
0.003322	0.000482
0.003321	0.000492
0.003321	0.000502
0.00332	0.000512
0.00332	0.000522
0.003319	0.000532
0.003319	0.000542
0.003318	0.000553
0.003318	0.000563
0.003317	0.000573
0.003316	0.000583
0.003316	0.000593
0.003315	0.000603
0.003315	0.000613
0.003314	0.000624
0.003313	0.000634
0.003313	0.000644
0.003312	0.000654
0.003311	0.000664
0.003311	0.000675
0.00331	0.000685
0.003309	0.000695

0.003309	0.000705
0.003308	0.000715
0.003307	0.000726
0.003306	0.000736
0.003306	0.000746
0.003305	0.000756
0.003304	0.000767
0.003303	0.000777
0.003302	0.000787
0.003302	0.000797
0.003301	0.000808
0.0033	0.000818
0.003299	0.000828
0.003298	0.000839
0.003297	0.000849
0.003297	0.000859
0.003296	0.00087
0.003295	0.00088
0.003294	0.00089
0.003293	0.000901
0.003292	0.000911
0.003291	0.000921
0.00329	0.000932
0.003289	0.000942
0.003288	0.000953
0.003287	0.000963
0.003286	0.000973
0.003285	0.000984
0.003284	0.000994
0.003283	0.001005
0.003282	0.001015
0.003281	0.001026
0.00328	0.001036
0.003279	0.001047
0.003278	0.001057
0.003277	0.001068
0.003276	0.001078
0.003274	0.001089
0.003273	0.001099
0.003272	0.00111
0.003271	0.00112
0.00327	0.001131
0.003269	0.001142
0.003267	0.001152
0.003266	0.001163
0.003265	0.001173
0.003264	0.001184
0.003263	0.001195
0.003261	0.001205

0.00326	0.001216
0.003259	0.001227
0.003257	0.001237
0.003256	0.001248
0.003255	0.001259
0.003254	0.001269
0.003252	0.00128
0.003251	0.001291
0.003249	0.001302
0.003248	0.001312
0.003247	0.001323
0.003245	0.001334
0.003244	0.001345
0.003242	0.001356
0.003241	0.001366
0.00324	0.001377
0.003238	0.001388
0.003237	0.001399
0.003235	0.00141
0.003234	0.001421
0.003232	0.001432
0.003231	0.001443
0.003229	0.001454
0.003227	0.001465
0.003226	0.001476
0.003224	0.001487
0.003223	0.001498
0.003221	0.001509
0.003219	0.00152
0.003218	0.001531
0.003216	0.001542
0.003214	0.001553
0.003213	0.001564
0.003211	0.001575
0.003209	0.001586
0.003208	0.001597
0.003206	0.001608
0.003204	0.00162
0.003202	0.001631
0.003201	0.001642
0.003199	0.001653
0.003197	0.001664
0.003195	0.001676
0.003193	0.001687
0.003191	0.001698
0.00319	0.00171
0.003188	0.001721
0.003186	0.001732
0.003184	0.001744

0.003182	0.001755
0.00318	0.001766
0.003178	0.001778
0.003176	0.001789
0.003174	0.001801
0.003172	0.001812
0.00317	0.001824
0.003168	0.001835
0.003166	0.001847
0.003164	0.001858
0.003162	0.00187
0.00316	0.001881
0.003158	0.001893
0.003156	0.001904
0.003153	0.001916
0.003151	0.001928
0.003149	0.001939
0.003147	0.001951
0.003145	0.001963
0.003143	0.001975
0.00314	0.001986
0.003138	0.001998
0.003136	0.00201
0.003134	0.002022
0.003131	0.002034
0.003129	0.002046
0.003127	0.002057
0.003124	0.002069
0.003122	0.002081
0.00312	0.002093
0.003117	0.002105
0.003115	0.002117
0.003112	0.002129
0.00311	0.002141
0.003107	0.002153
0.003105	0.002165
0.003102	0.002178
0.0031	0.00219
0.003097	0.002202
0.003095	0.002214
0.003092	0.002226
0.00309	0.002239
0.003087	0.002251
0.003084	0.002263
0.003082	0.002275
0.003079	0.002288
0.003076	0.0023
0.003074	0.002312
0.003071	0.002325

0.003068	0.002337
0.003065	0.00235
0.003063	0.002362
0.00306	0.002375
0.003057	0.002387
0.003054	0.0024
0.003051	0.002413
0.003049	0.002425
0.003046	0.002438
0.003043	0.00245
0.00304	0.002463
0.003037	0.002476
0.003034	0.002489
0.003031	0.002502
0.003028	0.002514
0.003025	0.002527
0.003022	0.00254
0.003019	0.002553
0.003016	0.002566
0.003013	0.002579
0.003009	0.002592
0.003006	0.002605
0.003003	0.002618
0.003	0.002631
0.002997	0.002644
0.002993	0.002657
0.00299	0.002671
0.002987	0.002684
0.002984	0.002697
0.00298	0.00271
0.002977	0.002724
0.002974	0.002737
0.00297	0.00275
0.002967	0.002764
0.002963	0.002777
0.00296	0.002791
0.002956	0.002804
0.002953	0.002818
0.002949	0.002831
0.002946	0.002845
0.002942	0.002859
0.002939	0.002872
0.002935	0.002886
0.002931	0.0029
0.002928	0.002914
0.002924	0.002927
0.00292	0.002941
0.002916	0.002955
0.002913	0.002969

0.002909	0.002983
0.002905	0.002997
0.002901	0.003011
0.002897	0.003025
0.002893	0.003039
0.002889	0.003054
0.002885	0.003068
0.002882	0.003082
0.002877	0.003096
0.002873	0.003111
0.002869	0.003125
0.002865	0.003139
0.002861	0.003154
0.002857	0.003168
0.002853	0.003183
0.002849	0.003197
0.002844	0.003212
0.00284	0.003227
0.002836	0.003241
0.002832	0.003256
0.002827	0.003271
0.002823	0.003286
0.002819	0.0033
0.002814	0.003315
0.00281	0.00333
0.002805	0.003345
0.002801	0.00336
0.002796	0.003375
0.002792	0.003391
0.002787	0.003406
0.002782	0.003421
0.002778	0.003436
0.002773	0.003452
0.002768	0.003467
0.002763	0.003482
0.002759	0.003498
0.002754	0.003513
0.002749	0.003529
0.002744	0.003545
0.002739	0.00356
0.002734	0.003576
0.002729	0.003592
0.002724	0.003607
0.002719	0.003623
0.002714	0.003639
0.002709	0.003655
0.002704	0.003671
0.002699	0.003687
0.002693	0.003703

0.002688	0.00372
0.002683	0.003736
0.002677	0.003752
0.002672	0.003768
0.002667	0.003785
0.002661	0.003801
0.002656	0.003818
0.00265	0.003834
0.002645	0.003851
0.002639	0.003868
0.002634	0.003884
0.002628	0.003901
0.002622	0.003918
0.002616	0.003935
0.002611	0.003952
0.002605	0.003969
0.002599	0.003986
0.002593	0.004003
0.002587	0.00402
0.002581	0.004038
0.002575	0.004055
0.002569	0.004072
0.002563	0.00409
0.002557	0.004107
0.002551	0.004125
0.002544	0.004142
0.002538	0.00416
0.002532	0.004178
0.002525	0.004196
0.002519	0.004214
0.002513	0.004232
0.002506	0.00425
0.002499	0.004268
0.002493	0.004286
0.002486	0.004304
0.00248	0.004323
0.002473	0.004341
0.002466	0.00436
0.002459	0.004378
0.002452	0.004397
0.002445	0.004415
0.002439	0.004434
0.002431	0.004453
0.002424	0.004472
0.002417	0.004491
0.00241	0.00451
0.002403	0.004529
0.002396	0.004548
0.002388	0.004568

0.002381	0.004587
0.002374	0.004606
0.002366	0.004626
0.002359	0.004646
0.002351	0.004665
0.002343	0.004685
0.002336	0.004705
0.002328	0.004725
0.00232	0.004745
0.002312	0.004765
0.002304	0.004785
0.002296	0.004805
0.002288	0.004826
0.00228	0.004846
0.002272	0.004867
0.002264	0.004887
0.002256	0.004908
0.002247	0.004929
0.002239	0.00495
0.002231	0.004971
0.002222	0.004992
0.002213	0.005013
0.002205	0.005034
0.002196	0.005056
0.002187	0.005077
0.002179	0.005099
0.00217	0.00512
0.002161	0.005142
0.002152	0.005164
0.002143	0.005186
0.002133	0.005208
0.002124	0.00523
0.002115	0.005252
0.002106	0.005275
0.002096	0.005297
0.002087	0.00532
0.002077	0.005342
0.002067	0.005365
0.002058	0.005388
0.002048	0.005411
0.002038	0.005434
0.002028	0.005457
0.002018	0.005481
0.002008	0.005504
0.001998	0.005528
0.001988	0.005551
0.001977	0.005575
0.001967	0.005599
0.001956	0.005623

0.001946	0.005647
0.001935	0.005672
0.001924	0.005696
0.001914	0.005721
0.001903	0.005745
0.001892	0.00577
0.001881	0.005795
0.001869	0.00582
0.001858	0.005845
0.001847	0.00587
0.001835	0.005896
0.001824	0.005921
0.001812	0.005947
0.001801	0.005973
0.001789	0.005999
0.001777	0.006025
0.001765	0.006051
0.001753	0.006077
0.001741	0.006104
0.001728	0.006131
0.001716	0.006157
0.001704	0.006184
0.001691	0.006211
0.001678	0.006239
0.001666	0.006266
0.001653	0.006294
0.00164	0.006321
0.001627	0.006349
0.001613	0.006377
0.0016	0.006405
0.001587	0.006434
0.001573	0.006462
0.001559	0.006491
0.001546	0.006519
0.001532	0.006548
0.001518	0.006578
0.001504	0.006607
0.00149	0.006636
0.001475	0.006666
0.001461	0.006696
0.001446	0.006726
0.001431	0.006756
0.001417	0.006786
0.001402	0.006817
0.001387	0.006848
0.001371	0.006878
0.001356	0.00691
0.001341	0.006941
0.001325	0.006972

0.001309	0.007004
0.001293	0.007036
0.001277	0.007068
0.001261	0.0071
0.001245	0.007133
0.001228	0.007165
0.001212	0.007198
0.001195	0.007231
0.001178	0.007264
0.001161	0.007298
0.001144	0.007332
0.001127	0.007365
0.001109	0.0074
0.001092	0.007434
0.001074	0.007468
0.001056	0.007503
0.001038	0.007538
0.001019	0.007574
0.001001	0.007609
0.000982	0.007645
0.000964	0.007681
0.000945	0.007717
0.000925	0.007753
0.000906	0.00779
0.000887	0.007827
0.000867	0.007864
0.000847	0.007902
0.000827	0.007939
0.000807	0.007977
0.000786	0.008016
0.000766	0.008054
0.000745	0.008093
0.000724	0.008132
0.000703	0.008171
0.000681	0.008211
0.00066	0.008251
0.000638	0.008291
0.000616	0.008331
0.000594	0.008372
0.000571	0.008413
0.000549	0.008454
0.000526	0.008496
0.000503	0.008538
0.000479	0.00858
0.000456	0.008623
0.000432	0.008666
0.000408	0.008709
0.000384	0.008753
0.000359	0.008796

0.000334	0.008841
0.000309	0.008885
0.000284	0.00893
0.000259	0.008975
0.000233	0.009021
0.000207	0.009067
0.00018	0.009113
0.000154	0.00916
0.000127	0.009207
9.99E-05	0.009254
7.25E-05	0.009302
4.48E-05	0.00935
1.69E-05	0.009399
-1.1E-05	0.009448
-4E-05	0.009497
-6.9E-05	0.009547
-9.8E-05	0.009597
-0.00013	0.009648
-0.00016	0.009699
-0.00019	0.00975
-0.00022	0.009802
-0.00025	0.009854
-0.00028	0.009907
-0.00031	0.00996
-0.00034	0.010014
-0.00037	0.010068
-0.00041	0.010122
-0.00044	0.010177
-0.00047	0.010233
-0.00051	0.010289
-0.00054	0.010345
-0.00057	0.010402
-0.00061	0.01046
-0.00064	0.010518
-0.00068	0.010576
-0.00072	0.010635
-0.00075	0.010695
-0.00079	0.010755
-0.00083	0.010816
-0.00086	0.010877
-0.0009	0.010939
-0.00094	0.011001
-0.00098	0.011064
-0.00102	0.011128
-0.00106	0.011192
-0.0011	0.011257
-0.00114	0.011322
-0.00118	0.011388
-0.00122	0.011455

-0.00126	0.011522
-0.00131	0.01159
-0.00135	0.011659
-0.00139	0.011728
-0.00144	0.011798
-0.00148	0.011869
-0.00153	0.01194
-0.00157	0.012012
-0.00162	0.012085
-0.00167	0.012158
-0.00171	0.012233
-0.00176	0.012308
-0.00181	0.012384
-0.00186	0.01246
-0.00191	0.012538
-0.00196	0.012616
-0.00201	0.012695
-0.00206	0.012775
-0.00212	0.012856
-0.00217	0.012938
-0.00222	0.01302
-0.00228	0.013104
-0.00233	0.013188
-0.00239	0.013273
-0.00245	0.01336
-0.00251	0.013447
-0.00256	0.013535
-0.00262	0.013624
-0.00268	0.013714
-0.00274	0.013806
-0.00281	0.013898
-0.00287	0.013991
-0.00293	0.014086
-0.003	0.014181
-0.00306	0.014278
-0.00313	0.014375
-0.00319	0.014474
-0.00326	0.014574
-0.00333	0.014676
-0.0034	0.014778
-0.00347	0.014882
-0.00354	0.014987
-0.00362	0.015094
-0.00369	0.015201
-0.00377	0.01531
-0.00384	0.015421
-0.00392	0.015532
-0.004	0.015646
-0.00408	0.01576

-0.00416	0.015876
-0.00424	0.015994
-0.00432	0.016113
-0.00441	0.016234
-0.0045	0.016356
-0.00458	0.01648
-0.00467	0.016606
-0.00476	0.016733
-0.00485	0.016862
-0.00495	0.016993
-0.00504	0.017126
-0.00514	0.01726
-0.00523	0.017396
-0.00533	0.017535
-0.00543	0.017675
-0.00553	0.017817
-0.00564	0.017961
-0.00574	0.018107
-0.00585	0.018256
-0.00596	0.018407
-0.00607	0.018559
-0.00619	0.018714
-0.0063	0.018872
-0.00642	0.019032
-0.00654	0.019194
-0.00666	0.019358
-0.00678	0.019526
-0.00691	0.019695
-0.00703	0.019868
-0.00716	0.020043
-0.00729	0.020221
-0.00743	0.020402
-0.00757	0.020585
-0.00771	0.020772
-0.00785	0.020962
-0.00799	0.021155
-0.00814	0.021351
-0.00829	0.02155
-0.00844	0.021753
-0.0086	0.021959
-0.00876	0.022168
-0.00892	0.022382
-0.00908	0.022599
-0.00925	0.022819
-0.00942	0.023044
-0.0096	0.023273
-0.00978	0.023506
-0.00996	0.023743
-0.01015	0.023984

-0.01034	0.02423
-0.01053	0.02448
-0.01073	0.024735
-0.01093	0.024995
-0.01114	0.02526
-0.01135	0.02553
-0.01156	0.025805
-0.01178	0.026086
-0.01201	0.026372
-0.01224	0.026664
-0.01247	0.026962
-0.01271	0.027265
-0.01296	0.027575
-0.01321	0.027892
-0.01346	0.028215
-0.01373	0.028545
-0.01399	0.028882
-0.01427	0.029226
-0.01455	0.029577
-0.01484	0.029937
-0.01514	0.030304
-0.01544	0.030679
-0.01575	0.031063
-0.01607	0.031456
-0.01639	0.031858
-0.01673	0.032269
-0.01707	0.03269
-0.01742	0.03312
-0.01778	0.033562
-0.01815	0.034013
-0.01853	0.034476
-0.01892	0.034951
-0.01932	0.035437
-0.01973	0.035936
-0.02016	0.036447
-0.02059	0.036972
-0.02104	0.037511
-0.0215	0.038063
-0.02198	0.038631
-0.02246	0.039214
-0.02297	0.039814
-0.02348	0.040429
-0.02402	0.041063
-0.02456	0.041714
-0.02513	0.042384
-0.02571	0.043074
-0.02632	0.043784
-0.02694	0.044516
-0.02758	0.04527

-0.02824	0.046047
-0.02893	0.046848
-0.02964	0.047675
-0.03037	0.048528
-0.03113	0.049409
-0.03191	0.05032
-0.03273	0.05126
-0.03357	0.052233
-0.03444	0.053239
-0.03535	0.054281
-0.03629	0.055359
-0.03726	0.056477
-0.03827	0.057635
-0.03933	0.058836
-0.04042	0.060083
-0.04156	0.061378
-0.04275	0.062724
-0.04398	0.064123
-0.04527	0.065578
-0.04661	0.067094
-0.04802	0.068672
-0.04948	0.070319
-0.05102	0.072036
-0.05262	0.07383
-0.0543	0.075704
-0.05606	0.077664
-0.0579	0.079716
-0.05984	0.081866
-0.06188	0.084121
-0.06402	0.086488
-0.06627	0.088975
-0.06865	0.091591
-0.07116	0.094346
-0.07381	0.097251
-0.07661	0.100316
-0.07958	0.103556
-0.08272	0.106985
-0.08606	0.110617
-0.08962	0.114472
-0.0934	0.118569
-0.09743	0.122929
-0.10174	0.127578
-0.10635	0.132544
-0.1113	0.137857
-0.11661	0.143552
-0.12233	0.149671
-0.1285	0.156259
-0.13516	0.163368
-0.14239	0.171058

-0.15025	0.179399
-0.15881	0.188472
-0.16817	0.198369
-0.17844	0.209201
-0.18973	0.221098
-0.20221	0.234212
-0.21605	0.248727
-0.23146	0.264863
-0.24872	0.282888
-0.26813	0.303128
-0.29009	0.325985
-0.31511	0.351964
-0.3438	0.381697
-0.37696	0.415996
-0.41562	0.455912
-0.46116	0.502828
-0.51541	0.558601
-0.58087	0.625772
-0.66108	0.707908
-0.76112	0.810148
-0.88858	0.940153
-1.05524	1.1098
-1.28027	1.3384
-1.59682	1.65933
-2.06687	2.13493
-2.81912	2.89451
-4.16375	4.24952
-7.04459	7.1467
-15.8728	16.0065
-104.763	105.013

Table S1-A2. Keypoints used for generating an hyperbolic notch with opening angle $2\alpha = 60$ degrees and radius of the notch tip equal to 0.01mm.

X	Y
0.004	0
0.004	0.000012
0.004	2.4E-05
0.004	3.6E-05
0.004	4.8E-05
0.004	6E-05
0.004	7.2E-05
0.004	8.4E-05
0.004	9.6E-05
0.003999	0.000108
0.003999	0.00012
0.003999	0.000132
0.003999	0.000144
0.003999	0.000156

0.003999	0.000168
0.003998	0.00018
0.003998	0.000192
0.003998	0.000204
0.003998	0.000216
0.003997	0.000228
0.003997	0.00024
0.003997	0.000252
0.003997	0.000264
0.003996	0.000276
0.003996	0.000288
0.003995	0.0003
0.003995	0.000312
0.003995	0.000324
0.003994	0.000336
0.003994	0.000348
0.003994	0.00036
0.003993	0.000372
0.003993	0.000384
0.003992	0.000397
0.003992	0.000409
0.003991	0.000421
0.003991	0.000433
0.00399	0.000445
0.00399	0.000457
0.003989	0.000469
0.003988	0.000481
0.003988	0.000493
0.003987	0.000505
0.003987	0.000517
0.003986	0.000529
0.003985	0.000541
0.003985	0.000553
0.003984	0.000566
0.003983	0.000578
0.003983	0.00059
0.003982	0.000602
0.003981	0.000614
0.00398	0.000626
0.00398	0.000638
0.003979	0.00065
0.003978	0.000662
0.003977	0.000675
0.003976	0.000687
0.003976	0.000699
0.003975	0.000711
0.003974	0.000723
0.003973	0.000735
0.003972	0.000747

0.003971	0.00076
0.00397	0.000772
0.003969	0.000784
0.003968	0.000796
0.003967	0.000808
0.003966	0.000821
0.003965	0.000833
0.003964	0.000845
0.003963	0.000857
0.003962	0.000869
0.003961	0.000882
0.00396	0.000894
0.003959	0.000906
0.003958	0.000918
0.003957	0.000931
0.003956	0.000943
0.003954	0.000955
0.003953	0.000967
0.003952	0.00098
0.003951	0.000992
0.00395	0.001004
0.003948	0.001017
0.003947	0.001029
0.003946	0.001041
0.003945	0.001054
0.003943	0.001066
0.003942	0.001078
0.003941	0.001091
0.003939	0.001103
0.003938	0.001115
0.003937	0.001128
0.003935	0.00114
0.003934	0.001153
0.003932	0.001165
0.003931	0.001177
0.003929	0.00119
0.003928	0.001202
0.003927	0.001215
0.003925	0.001227
0.003923	0.00124
0.003922	0.001252
0.00392	0.001264
0.003919	0.001277
0.003917	0.001289
0.003916	0.001302
0.003914	0.001314
0.003912	0.001327
0.003911	0.00134
0.003909	0.001352

0.003907	0.001365
0.003906	0.001377
0.003904	0.00139
0.003902	0.001402
0.0039	0.001415
0.003899	0.001428
0.003897	0.00144
0.003895	0.001453
0.003893	0.001465
0.003891	0.001478
0.00389	0.001491
0.003888	0.001503
0.003886	0.001516
0.003884	0.001529
0.003882	0.001541
0.00388	0.001554
0.003878	0.001567
0.003876	0.00158
0.003874	0.001592
0.003872	0.001605
0.00387	0.001618
0.003868	0.001631
0.003866	0.001644
0.003864	0.001656
0.003862	0.001669
0.00386	0.001682
0.003857	0.001695
0.003855	0.001708
0.003853	0.001721
0.003851	0.001734
0.003849	0.001746
0.003846	0.001759
0.003844	0.001772
0.003842	0.001785
0.00384	0.001798
0.003837	0.001811
0.003835	0.001824
0.003833	0.001837
0.00383	0.00185
0.003828	0.001863
0.003825	0.001876
0.003823	0.001889
0.003821	0.001902
0.003818	0.001916
0.003816	0.001929
0.003813	0.001942
0.003811	0.001955
0.003808	0.001968
0.003806	0.001981

0.003803	0.001994
0.0038	0.002008
0.003798	0.002021
0.003795	0.002034
0.003793	0.002047
0.00379	0.002061
0.003787	0.002074
0.003784	0.002087
0.003782	0.0021
0.003779	0.002114
0.003776	0.002127
0.003773	0.002141
0.003771	0.002154
0.003768	0.002167
0.003765	0.002181
0.003762	0.002194
0.003759	0.002208
0.003756	0.002221
0.003753	0.002235
0.00375	0.002248
0.003747	0.002262
0.003744	0.002275
0.003741	0.002289
0.003738	0.002302
0.003735	0.002316
0.003732	0.00233
0.003729	0.002343
0.003726	0.002357
0.003723	0.00237
0.00372	0.002384
0.003716	0.002398
0.003713	0.002412
0.00371	0.002425
0.003707	0.002439
0.003703	0.002453
0.0037	0.002467
0.003697	0.002481
0.003694	0.002494
0.00369	0.002508
0.003687	0.002522
0.003683	0.002536
0.00368	0.00255
0.003676	0.002564
0.003673	0.002578
0.003669	0.002592
0.003666	0.002606
0.003662	0.00262
0.003659	0.002634
0.003655	0.002648

0.003652	0.002662
0.003648	0.002677
0.003644	0.002691
0.003641	0.002705
0.003637	0.002719
0.003633	0.002733
0.003629	0.002748
0.003626	0.002762
0.003622	0.002776
0.003618	0.00279
0.003614	0.002805
0.00361	0.002819
0.003606	0.002834
0.003602	0.002848
0.003598	0.002862
0.003594	0.002877
0.00359	0.002891
0.003586	0.002906
0.003582	0.00292
0.003578	0.002935
0.003574	0.00295
0.00357	0.002964
0.003566	0.002979
0.003561	0.002994
0.003557	0.003008
0.003553	0.003023
0.003549	0.003038
0.003544	0.003053
0.00354	0.003067
0.003536	0.003082
0.003531	0.003097
0.003527	0.003112
0.003522	0.003127
0.003518	0.003142
0.003513	0.003157
0.003509	0.003172
0.003504	0.003187
0.0035	0.003202
0.003495	0.003217
0.00349	0.003232
0.003486	0.003247
0.003481	0.003262
0.003476	0.003278
0.003471	0.003293
0.003467	0.003308
0.003462	0.003323
0.003457	0.003339
0.003452	0.003354
0.003447	0.00337

0.003442	0.003385
0.003437	0.0034
0.003432	0.003416
0.003427	0.003431
0.003422	0.003447
0.003417	0.003463
0.003412	0.003478
0.003407	0.003494
0.003402	0.003509
0.003396	0.003525
0.003391	0.003541
0.003386	0.003557
0.003381	0.003573
0.003375	0.003588
0.00337	0.003604
0.003364	0.00362
0.003359	0.003636
0.003353	0.003652
0.003348	0.003668
0.003342	0.003684
0.003337	0.0037
0.003331	0.003716
0.003326	0.003733
0.00332	0.003749
0.003314	0.003765
0.003308	0.003781
0.003303	0.003798
0.003297	0.003814
0.003291	0.00383
0.003285	0.003847
0.003279	0.003863
0.003273	0.00388
0.003267	0.003896
0.003261	0.003913
0.003255	0.003929
0.003249	0.003946
0.003243	0.003963
0.003236	0.003979
0.00323	0.003996
0.003224	0.004013
0.003218	0.00403
0.003211	0.004047
0.003205	0.004064
0.003198	0.004081
0.003192	0.004098
0.003186	0.004115
0.003179	0.004132
0.003172	0.004149
0.003166	0.004166

0.003159	0.004183
0.003152	0.004201
0.003146	0.004218
0.003139	0.004235
0.003132	0.004253
0.003125	0.00427
0.003118	0.004288
0.003111	0.004305
0.003104	0.004323
0.003097	0.00434
0.00309	0.004358
0.003083	0.004376
0.003076	0.004394
0.003069	0.004411
0.003061	0.004429
0.003054	0.004447
0.003047	0.004465
0.003039	0.004483
0.003032	0.004501
0.003025	0.004519
0.003017	0.004537
0.003009	0.004556
0.003002	0.004574
0.002994	0.004592
0.002986	0.00461
0.002979	0.004629
0.002971	0.004647
0.002963	0.004666
0.002955	0.004684
0.002947	0.004703
0.002939	0.004722
0.002931	0.00474
0.002923	0.004759
0.002915	0.004778
0.002907	0.004797
0.002898	0.004816
0.00289	0.004835
0.002882	0.004854
0.002873	0.004873
0.002865	0.004892
0.002856	0.004911
0.002848	0.00493
0.002839	0.00495
0.002831	0.004969
0.002822	0.004989
0.002813	0.005008
0.002804	0.005028
0.002795	0.005047
0.002786	0.005067

0.002777	0.005087
0.002768	0.005106
0.002759	0.005126
0.00275	0.005146
0.002741	0.005166
0.002732	0.005186
0.002722	0.005206
0.002713	0.005226
0.002703	0.005247
0.002694	0.005267
0.002684	0.005287
0.002675	0.005308
0.002665	0.005328
0.002655	0.005349
0.002645	0.005369
0.002636	0.00539
0.002626	0.005411
0.002616	0.005431
0.002606	0.005452
0.002595	0.005473
0.002585	0.005494
0.002575	0.005515
0.002565	0.005537
0.002554	0.005558
0.002544	0.005579
0.002533	0.0056
0.002523	0.005622
0.002512	0.005643
0.002501	0.005665
0.00249	0.005687
0.00248	0.005708
0.002469	0.00573
0.002458	0.005752
0.002447	0.005774
0.002435	0.005796
0.002424	0.005818
0.002413	0.00584
0.002402	0.005862
0.00239	0.005885
0.002379	0.005907
0.002367	0.00593
0.002355	0.005952
0.002344	0.005975
0.002332	0.005998
0.00232	0.006021
0.002308	0.006043
0.002296	0.006066
0.002284	0.006089
0.002272	0.006113

0.002259	0.006136
0.002247	0.006159
0.002234	0.006183
0.002222	0.006206
0.002209	0.00623
0.002197	0.006253
0.002184	0.006277
0.002171	0.006301
0.002158	0.006325
0.002145	0.006349
0.002132	0.006373
0.002119	0.006397
0.002105	0.006422
0.002092	0.006446
0.002078	0.00647
0.002065	0.006495
0.002051	0.00652
0.002037	0.006544
0.002023	0.006569
0.00201	0.006594
0.001995	0.006619
0.001981	0.006645
0.001967	0.00667
0.001953	0.006695
0.001938	0.006721
0.001924	0.006746
0.001909	0.006772
0.001894	0.006798
0.00188	0.006824
0.001865	0.00685
0.00185	0.006876
0.001835	0.006902
0.001819	0.006928
0.001804	0.006955
0.001788	0.006981
0.001773	0.007008
0.001757	0.007035
0.001741	0.007061
0.001726	0.007088
0.00171	0.007115
0.001693	0.007143
0.001677	0.00717
0.001661	0.007197
0.001644	0.007225
0.001628	0.007253
0.001611	0.00728
0.001594	0.007308
0.001577	0.007336
0.00156	0.007365

0.001543	0.007393
0.001526	0.007421
0.001509	0.00745
0.001491	0.007479
0.001473	0.007507
0.001456	0.007536
0.001438	0.007565
0.00142	0.007594
0.001401	0.007624
0.001383	0.007653
0.001365	0.007683
0.001346	0.007713
0.001327	0.007742
0.001309	0.007772
0.00129	0.007803
0.00127	0.007833
0.001251	0.007863
0.001232	0.007894
0.001212	0.007924
0.001193	0.007955
0.001173	0.007986
0.001153	0.008017
0.001133	0.008049
0.001112	0.00808
0.001092	0.008112
0.001071	0.008144
0.001051	0.008175
0.00103	0.008207
0.001009	0.00824
0.000987	0.008272
0.000966	0.008305
0.000944	0.008337
0.000923	0.00837
0.000901	0.008403
0.000879	0.008436
0.000857	0.00847
0.000834	0.008503
0.000812	0.008537
0.000789	0.008571
0.000766	0.008605
0.000743	0.008639
0.00072	0.008673
0.000696	0.008708
0.000673	0.008743
0.000649	0.008778
0.000625	0.008813
0.000601	0.008848
0.000576	0.008883
0.000552	0.008919

0.000527	0.008955
0.000502	0.008991
0.000477	0.009027
0.000452	0.009064
0.000426	0.0091
0.0004	0.009137
0.000374	0.009174
0.000348	0.009211
0.000322	0.009249
0.000295	0.009286
0.000269	0.009324
0.000242	0.009362
0.000214	0.0094
0.000187	0.009439
0.000159	0.009478
0.000131	0.009517
0.000103	0.009556
7.48E-05	0.009595
4.62E-05	0.009635
1.74E-05	0.009674
-1.2E-05	0.009714
-4.1E-05	0.009755
-7.1E-05	0.009795
-0.0001	0.009836
-0.00013	0.009877
-0.00016	0.009918
-0.00019	0.009959
-0.00022	0.010001
-0.00025	0.010043
-0.00028	0.010085
-0.00032	0.010128
-0.00035	0.01017
-0.00038	0.010213
-0.00041	0.010257
-0.00045	0.0103
-0.00048	0.010344
-0.00051	0.010388
-0.00055	0.010432
-0.00058	0.010477
-0.00061	0.010521
-0.00065	0.010566
-0.00068	0.010612
-0.00072	0.010658
-0.00075	0.010703
-0.00079	0.01075
-0.00082	0.010796
-0.00086	0.010843
-0.0009	0.01089
-0.00093	0.010938

-0.00097	0.010985
-0.00101	0.011033
-0.00105	0.011082
-0.00109	0.011131
-0.00112	0.01118
-0.00116	0.011229
-0.0012	0.011278
-0.00124	0.011328
-0.00128	0.011379
-0.00132	0.011429
-0.00136	0.01148
-0.0014	0.011532
-0.00145	0.011583
-0.00149	0.011635
-0.00153	0.011688
-0.00157	0.011741
-0.00162	0.011794
-0.00166	0.011847
-0.0017	0.011901
-0.00175	0.011955
-0.00179	0.01201
-0.00184	0.012065
-0.00188	0.01212
-0.00193	0.012176
-0.00198	0.012232
-0.00202	0.012289
-0.00207	0.012346
-0.00212	0.012403
-0.00217	0.012461
-0.00222	0.012519
-0.00227	0.012578
-0.00232	0.012637
-0.00237	0.012697
-0.00242	0.012757
-0.00247	0.012817
-0.00252	0.012878
-0.00257	0.012939
-0.00262	0.013001
-0.00268	0.013064
-0.00273	0.013126
-0.00279	0.01319
-0.00284	0.013253
-0.0029	0.013317
-0.00295	0.013382
-0.00301	0.013447
-0.00307	0.013513
-0.00313	0.013579
-0.00318	0.013646
-0.00324	0.013714

-0.0033	0.013781
-0.00336	0.01385
-0.00342	0.013919
-0.00349	0.013988
-0.00355	0.014058
-0.00361	0.014129
-0.00367	0.0142
-0.00374	0.014272
-0.0038	0.014345
-0.00387	0.014418
-0.00394	0.014491
-0.004	0.014565
-0.00407	0.01464
-0.00414	0.014716
-0.00421	0.014792
-0.00428	0.014869
-0.00435	0.014946
-0.00442	0.015024
-0.00449	0.015103
-0.00457	0.015183
-0.00464	0.015263
-0.00472	0.015344
-0.00479	0.015426
-0.00487	0.015508
-0.00495	0.015591
-0.00502	0.015675
-0.0051	0.01576
-0.00518	0.015845
-0.00527	0.015931
-0.00535	0.016018
-0.00543	0.016106
-0.00551	0.016195
-0.0056	0.016284
-0.00569	0.016374
-0.00577	0.016465
-0.00586	0.016557
-0.00595	0.01665
-0.00604	0.016744
-0.00613	0.016839
-0.00622	0.016934
-0.00632	0.017031
-0.00641	0.017128
-0.00651	0.017226
-0.0066	0.017326
-0.0067	0.017426
-0.0068	0.017527
-0.0069	0.01763
-0.007	0.017733
-0.00711	0.017838

-0.00721	0.017943
-0.00732	0.01805
-0.00743	0.018157
-0.00753	0.018266
-0.00764	0.018376
-0.00776	0.018487
-0.00787	0.018599
-0.00798	0.018713
-0.0081	0.018827
-0.00822	0.018943
-0.00833	0.01906
-0.00845	0.019179
-0.00858	0.019298
-0.0087	0.019419
-0.00883	0.019542
-0.00895	0.019665
-0.00908	0.019791
-0.00921	0.019917
-0.00934	0.020045
-0.00948	0.020174
-0.00961	0.020305
-0.00975	0.020437
-0.00989	0.020571
-0.01003	0.020706
-0.01018	0.020843
-0.01032	0.020982
-0.01047	0.021122
-0.01062	0.021264
-0.01077	0.021407
-0.01093	0.021553
-0.01108	0.0217
-0.01124	0.021848
-0.0114	0.021999
-0.01157	0.022152
-0.01173	0.022306
-0.0119	0.022462
-0.01207	0.02262
-0.01224	0.022781
-0.01242	0.022943
-0.0126	0.023107
-0.01278	0.023274
-0.01297	0.023442
-0.01315	0.023613
-0.01334	0.023786
-0.01354	0.023961
-0.01373	0.024139
-0.01393	0.024319
-0.01413	0.024501
-0.01434	0.024686

-0.01455	0.024874
-0.01476	0.025064
-0.01498	0.025256
-0.01519	0.025452
-0.01542	0.02565
-0.01564	0.02585
-0.01587	0.026054
-0.01611	0.02626
-0.01635	0.02647
-0.01659	0.026682
-0.01683	0.026898
-0.01708	0.027117
-0.01734	0.027339
-0.0176	0.027564
-0.01786	0.027793
-0.01813	0.028025
-0.0184	0.028261
-0.01868	0.0285
-0.01896	0.028743
-0.01925	0.028989
-0.01954	0.02924
-0.01984	0.029494
-0.02015	0.029753
-0.02046	0.030016
-0.02077	0.030283
-0.02109	0.030554
-0.02142	0.030829
-0.02175	0.03111
-0.02209	0.031394
-0.02244	0.031684
-0.02279	0.031979
-0.02315	0.032278
-0.02352	0.032583
-0.02389	0.032892
-0.02427	0.033208
-0.02466	0.033529
-0.02506	0.033855
-0.02546	0.034187
-0.02588	0.034525
-0.0263	0.03487
-0.02673	0.03522
-0.02717	0.035578
-0.02762	0.035941
-0.02808	0.036312
-0.02855	0.036689
-0.02902	0.037074
-0.02951	0.037466
-0.03001	0.037866
-0.03052	0.038273

-0.03104	0.038689
-0.03158	0.039113
-0.03212	0.039545
-0.03268	0.039986
-0.03325	0.040436
-0.03384	0.040896
-0.03443	0.041365
-0.03504	0.041843
-0.03567	0.042332
-0.03631	0.042832
-0.03697	0.043342
-0.03764	0.043863
-0.03833	0.044396
-0.03904	0.044941
-0.03976	0.045498
-0.0405	0.046067
-0.04126	0.04665
-0.04204	0.047246
-0.04284	0.047856
-0.04367	0.048481
-0.04451	0.04912
-0.04538	0.049775
-0.04627	0.050446
-0.04718	0.051133
-0.04812	0.051837
-0.04908	0.05256
-0.05007	0.0533
-0.05109	0.05406
-0.05214	0.054839
-0.05322	0.055639
-0.05433	0.05646
-0.05548	0.057303
-0.05665	0.05817
-0.05787	0.05906
-0.05912	0.059975
-0.06041	0.060916
-0.06174	0.061884
-0.06311	0.062879
-0.06452	0.063904
-0.06598	0.064959
-0.06749	0.066046
-0.06905	0.067166
-0.07066	0.068321
-0.07232	0.069512
-0.07404	0.07074
-0.07582	0.072007
-0.07767	0.073316
-0.07958	0.074668
-0.08155	0.076065

-0.0836	0.07751
-0.08573	0.079004
-0.08794	0.08055
-0.09023	0.082151
-0.0926	0.08381
-0.09507	0.085529
-0.09764	0.087311
-0.10032	0.089161
-0.1031	0.091081
-0.106	0.093076
-0.10901	0.09515
-0.11216	0.097306
-0.11545	0.099551
-0.11888	0.101888
-0.12246	0.104324
-0.12621	0.106865
-0.13013	0.109517
-0.13424	0.112286
-0.13854	0.115181
-0.14305	0.11821
-0.14779	0.121381
-0.15277	0.124704
-0.15801	0.12819
-0.16352	0.131849
-0.16932	0.135695
-0.17545	0.139741
-0.18191	0.144002
-0.18875	0.148494
-0.19598	0.153235
-0.20365	0.158245
-0.21178	0.163546
-0.22041	0.169162
-0.2296	0.17512
-0.23938	0.18145
-0.24982	0.188185
-0.26098	0.195362
-0.27291	0.203023
-0.28571	0.211216
-0.29946	0.219992
-0.31425	0.229411
-0.33021	0.239542
-0.34745	0.250462
-0.36612	0.262259
-0.3864	0.275033
-0.40847	0.288903
-0.43257	0.304004
-0.45895	0.320492
-0.48793	0.338553
-0.51986	0.358402

-0.55517	0.380296
-0.59438	0.404539
-0.6381	0.431499
-0.68707	0.461615
-0.74219	0.495427
-0.80459	0.533594
-0.87563	0.576936
-0.95706	0.626478
-1.05107	0.683523
-1.1605	0.74974
-1.28903	0.827308
-1.44157	0.919109
-1.6247	1.02903
-1.84754	1.16242
-2.12294	1.32682
-2.46954	1.53316
-2.91529	1.7978
-3.50376	2.14621
-4.30614	2.61997
-5.44583	3.29105
-7.1535	4.29378
-9.90568	5.90539
-14.8354	8.78411
-25.2768	14.8642
-55.4647	32.393
-256.649	148.86

Table S1-A2. Keypoints used for generating an hyperbolic notch with opening angle 2α = 45 degrees and radius of the notch tip equal to 0.01mm.

X	Y
0.004286	0
0.004286	1.29E-05
0.004286	2.57E-05
0.004286	3.86E-05
0.004286	5.14E-05
0.004286	6.43E-05
0.004285	7.71E-05
0.004285	9E-05
0.004285	0.000103
0.004285	0.000116
0.004285	0.000129
0.004285	0.000141
0.004285	0.000154
0.004284	0.000167
0.004284	0.00018
0.004284	0.000193
0.004284	0.000206
0.004283	0.000219

0.004283	0.000232
0.004283	0.000244
0.004282	0.000257
0.004282	0.00027
0.004282	0.000283
0.004281	0.000296
0.004281	0.000309
0.004281	0.000322
0.00428	0.000335
0.00428	0.000347
0.004279	0.00036
0.004279	0.000373
0.004278	0.000386
0.004278	0.000399
0.004277	0.000412
0.004277	0.000425
0.004276	0.000438
0.004276	0.000451
0.004275	0.000464
0.004274	0.000476
0.004274	0.000489
0.004273	0.000502
0.004272	0.000515
0.004272	0.000528
0.004271	0.000541
0.00427	0.000554
0.00427	0.000567
0.004269	0.00058
0.004268	0.000593
0.004267	0.000606
0.004267	0.000619
0.004266	0.000632
0.004265	0.000645
0.004264	0.000658
0.004263	0.000671
0.004262	0.000683
0.004261	0.000696
0.004261	0.000709
0.00426	0.000722
0.004259	0.000735
0.004258	0.000748
0.004257	0.000761
0.004256	0.000774
0.004255	0.000787
0.004254	0.0008
0.004253	0.000813
0.004252	0.000826
0.004251	0.00084
0.004249	0.000853

0.004248	0.000866
0.004247	0.000879
0.004246	0.000892
0.004245	0.000905
0.004244	0.000918
0.004242	0.000931
0.004241	0.000944
0.00424	0.000957
0.004239	0.00097
0.004237	0.000983
0.004236	0.000996
0.004235	0.001009
0.004234	0.001023
0.004232	0.001036
0.004231	0.001049
0.004229	0.001062
0.004228	0.001075
0.004227	0.001088
0.004225	0.001101
0.004224	0.001115
0.004222	0.001128
0.004221	0.001141
0.004219	0.001154
0.004218	0.001167
0.004216	0.00118
0.004215	0.001194
0.004213	0.001207
0.004211	0.00122
0.00421	0.001233
0.004208	0.001247
0.004207	0.00126
0.004205	0.001273
0.004203	0.001286
0.004201	0.0013
0.0042	0.001313
0.004198	0.001326
0.004196	0.00134
0.004194	0.001353
0.004193	0.001366
0.004191	0.00138
0.004189	0.001393
0.004187	0.001406
0.004185	0.00142
0.004183	0.001433
0.004181	0.001446
0.00418	0.00146
0.004178	0.001473
0.004176	0.001486
0.004174	0.0015

0.004172	0.001513
0.00417	0.001527
0.004168	0.00154
0.004165	0.001554
0.004163	0.001567
0.004161	0.001581
0.004159	0.001594
0.004157	0.001608
0.004155	0.001621
0.004153	0.001635
0.00415	0.001648
0.004148	0.001662
0.004146	0.001675
0.004144	0.001689
0.004141	0.001702
0.004139	0.001716
0.004137	0.00173
0.004135	0.001743
0.004132	0.001757
0.00413	0.00177
0.004127	0.001784
0.004125	0.001798
0.004122	0.001811
0.00412	0.001825
0.004118	0.001839
0.004115	0.001852
0.004113	0.001866
0.00411	0.00188
0.004107	0.001894
0.004105	0.001907
0.004102	0.001921
0.0041	0.001935
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-0.12622	0.089839
-0.12946	0.091566
-0.13283	0.093353
-0.13634	0.095204
-0.13997	0.097122
-0.14376	0.099109
-0.14769	0.101171
-0.15179	0.10331
-0.15606	0.105532
-0.16051	0.10784

-0.16515	0.110239
-0.16999	0.112735
-0.17504	0.115333
-0.18033	0.118039
-0.18585	0.120859
-0.19163	0.123801
-0.19768	0.126873
-0.20402	0.130081
-0.21068	0.133435
-0.21766	0.136945
-0.225	0.14062
-0.23271	0.144472
-0.24083	0.148514
-0.24938	0.152757
-0.2584	0.157218
-0.26792	0.161912
-0.27798	0.166855
-0.28863	0.172069
-0.2999	0.177572
-0.31185	0.183389
-0.32455	0.189544
-0.33804	0.196067
-0.35241	0.202989
-0.36772	0.210343
-0.38407	0.218171
-0.40156	0.226513
-0.42029	0.235421
-0.44039	0.244947
-0.462	0.255153
-0.48527	0.26611
-0.51039	0.277896
-0.53756	0.290601
-0.56701	0.304328
-0.59902	0.319195
-0.63389	0.335337
-0.67198	0.352912
-0.71371	0.372103
-0.75958	0.393122
-0.81015	0.416221
-0.86612	0.441695
-0.92829	0.469898
-0.99764	0.501249
-1.07535	0.536258
-1.16285	0.575542
-1.26189	0.619857
-1.37466	0.670136
-1.50387	0.72755
-1.65296	0.793571
-1.82636	0.870086

-2.02979	0.959538
-2.27079	1.06514
-2.5595	1.19121
-2.90974	1.34361
-3.34088	1.53055
-3.88066	1.76377
-4.57007	2.06059
-5.4719	2.44749
-6.68638	2.96667
-8.38223	3.68904
-10.8625	4.74177
-14.7199	6.37311
-21.2543	9.12663
-33.8288	14.4061
-63.7422	26.9192
-173.437	72.6325
-2282.01	947.63