

HFULL swedish+ 1010steel CUR=60000 YOKE 3 BARABAR.am
Full H-Shaped Magnet including all four quadrants
with harmonic analysis with no-symmetry option

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; Copyright 1998, by the University of California.  
; Unauthorized commercial use is prohibited.  
&reg kprob=0, ; Poisson or Pandira problem  
mode=0,  
mat=2,mtid=3, ; Use fixed gamma for material 2  
nbslo=0,  
nbsup=0,  
nbslf=0,  
nbsrt=0,  
xreg1=-20.8,  
xreg2=-20.3,  
xreg3=20.3,  
xreg4=20.8,  
kreg1=12.,  
kreg2=14.,  
kreg3=106,  
kreg4=108,  
kmax=119,  
yreg1=-31.5,  
yreg2=-31.,  
yreg3=31.,  
yreg4=31.5,  
lreg1=12.,lreg2=14.,lreg3=53.,lreg4=55.,lmax=66.,  
ktype=1,nterm=9,nptc=41,rint=1.5,angle=360,rnorm=1.5&
```

```
&po x=-45.4,y=-56.1 & ; Entire geometry is iron, intially  
&po x=45.4,y=-56.1 &  
&po x=45.4,y=56.1 &  
&po x=-45.4,y=56.1 &  
&po x=-45.4,y=-56.1 &  
&MT MTID=3,  
BH=0. 0.  
1000. 0.5  
5000. 0.8  
6200. 1.  
8200. 1.5  
9600. 2.  
10600. 2.5  
11200. 3.  
11800. 3.5  
12200. 4.  
12400. 4.5  
12800. 5.  
13200. 5.5  
13600. 6.
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13800. 6.5
14073.900 13.1830
14494.000 15.8490
14856.000 19.0550
15171.100 22.9090
15451.400 27.5420
15708.900 33.1129
15955.200 39.8109
16201.000 47.8629
16455.600 57.5439
16726.400 69.1831
17018.900 83.1760
17336.200 100.0001
17679.100 120.2260
18045.600 124.8450
18431.800 173.7800
18831.301 208.9295
19236.000 251.1895
19636.300 301.9945
20022.400 363.0782
20384.200 436.5154
20713.200 524.8062
21003.000 630.9574
21251.300 758.5779
21461.100 912.0109
21646.400 1096.4789
21869.100 1318.2562
22136.600 1584.8920
22458.100 1905.4597
22844.400 2290.8593
23308.700 2754.2259
23866.600 3311.2998
24537.300 3981.0788
25343.400 4786.3038
26312.400 5754.3903
27477.200 6918.3193 &

® mat=1 & ; Start of air region
&po x=-20.8,y=-31.5 &
&po x=-14,y=-31.5 &
&po x=-14,y=-1.5 &
&po x=14,y=-1.5&
&po x=14,y=-31.5 &
&po x=20.8,y=-31.5&
&po x=20.8,y=31.5 &
&po x=14,y=31.5 &
&po x=14,y=1.5 &
&po x=-14,y=1.5 &

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&po x=-14,y=31.5 &
&po x=-20.8,y=31.5 &
&po x=-20.8,y=-31.5&

® mat=1,cur=-60000. & ; Start of left-side coil bottom

&po x=14.5,y=-31. &
&po x=20.3,y=-31. &
&po x=20.3,y=-4. &
&po x=14.5,y=-4. &
&po x=14.5,y=-31. &

® mat=1,cur=-60000. & ; Start of left-side coil above

&po x=20.3,y=31. &
&po x=14.5,y=31. &
&po x=14.5,y=4. &
&po x=20.3,y=4. &
&po x=20.3,y=31. &

® mat=1,cur=60000. & ; Start of right-side coil bottom

&po x=-14.5,y=-31. &
&po x=-20.3,y=-31. &
&po x=-20.3,y=-4. &
&po x=-14.5,y=-4. &
&po x=-14.5,y=-31. &

® mat=1,cur=60000. & ; Start of right-side coil above

&po x=-20.3,y=31. &
&po x=-14.5,y=31. &
&po x=-14.5,y=4. &
&po x=-20.3,y=4. &
&po x=-20.3,y=31. &