

PS-PERMAG: Comparison of Version 2.4 and 2.5

Feature	PS-PERMAG 2.4	PS-PERMAG 2.5	Remarks
D Cylinder diametrical	√	√	
M Cylinder homogeneously multipolar	√	√	
L Cylinder laterally multipolar	√	√	
A Cylinder axially multipolar	√	√	Vers.2.5 optional forces and soft magnetic plates
C Cuboid homogeneously multipolar	√	√	Vers.2.5 optional forces and soft magnetic plates
R Cylinder radially multipolar		√	
2D-M 2D electrical machine, homogeneously multipolar		√	
2D-R 2D electrical machine, radially multipolar		√	
circular path for <u>arbitrary</u> sorts of magnets	for cylinders only	√	
linear path for <u>arbitrary</u> sorts of magnets	for cuboids only	√	
Field components in cylindrical and cartesian coordinates for <u>all</u> sorts of magnets		√	
Fourier series of fields for periodic configurations	√	√	
Fourier transform of fields for non periodic configurations		√	continuous frequency distribution
graphical diagrams of frequency distributions		√	
soft magnetic bodies		√	for magnetic systems A,C, 2D-M and 2D-R
Force evaluation		√	by soft magnetic plates on magnets A and C
max. no. of data points circular path	90 per pole	3600	
max. no. of data points linear path	500	1000	
resolution of field angles	< 0.1°	< 0.01°	
max no. of poles per side of magnet	512	256	
Listings for circular paths	Fields in front of or above one pole	arbitrary angular range	