

## PS-PERMAG: Comparison of Version 2.4 to 2.6

Feature	Version 2.4	Version 2.5	Version 2.6	Remarks
<b>D</b> Cylinder diametrical	√	√	√	
<b>M</b> Cylinder homogeneously multipolar	√	√	√	
<b>L</b> Cylinder laterally multipolar	√	√	√	
<b>A</b> Cylinder axially multipolar	√	√	√	Version 2.5 or higher: optional forces and soft magnetic plates
<b>C</b> Cuboid homogeneously multipolar	√	√	√	Version 2.5 or higher: optional forces and soft magnetic plates
<b>R</b> Cylinder radially multipolar		√	√	
<b>H</b> Halbach cylinders			√	treats both cases of continuous and segmented magnetization
<b>2D-M</b> 2D electrical machine, homogeneously multipolar		√	√	Vers. 2.6: includes computation of motor characteristic curves
<b>2D-R</b> 2D electrical machine, radially multipolar		√	√	Vers. 2.6: includes computation of motor characteristic curves
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
Computation of motor characteristic curves			√	for magnetic systems 2D-M and 2D-R for DC motors
max. no. of data points circular path	90 per pole	3600	3600	
max. no. of data points linear path	500	1000	1000	
resolution of field angles	< 0.1°	< 0.01°	< 0.01	
max no. of poles per side of magnet	512	256	256	maximum 36 for systems H (Halbach systems)
Extended graphical adjustments			√	sorts of diagram grid, strength of curves, fonts, axes
HTML help system			√	
Listings for circular paths	fields in front of one pole	arbitrary angular range	arbitrary angular range	