

14. APPENDICES

14.1. Electrical Machine Design Software Worldwide

Following tables list FEM software worldwide to design electric machines. This list includes both free and commercial software. **Table 22** lists General Purpose FEM software, **Table 23** lists Motor Specific Software. **Table 24** lists Inductor/Transformer Specific Software.

Table 22. General purpose electric machine design software

No	(A) FREE SOFTWARE		
	Software	Firm	Website
1	FEMM	FEMM, USA.	Femm.info/wiki/Download
2	FEMAG	ETH, Zurich	elmocad.de_profemag.ch
3	POISSON	LANL, USA	laacg.lanl.gov/laacg/services/download_sf.shtml
4	VIZIMAG	VIZIMAG, USA	vizimag.software.informer.com/3.1
5	ELMER	CSC, Finland	https://sourceforge.net/projects/elmerfem/
6	GETDP	GETDP, Finland	http://onelab.info/wiki/GetDP
	(B) COMMERCIAL SOFTWARE		
1	BIOT	Ripplon Canada	Ripplon.com/software.html
2	COMSOL	COMSOL, Sweden	comsol.com
3	CST	CST, Germany	cst.com
4	EMWORKS	EM Works, Canada	emworks.com
5	FEKO	Elec.Mag., SA	feko.info
6	FLUX	Altair, France	cedrat.com/software/flux/
7	Motor Rewind	EASA, USA	http://www.easa.com/resources/software
8	JMAG	Jmag Intl, Japan	jmag-international.com/products
9	MAGNET	Infolytica. Canada	infolytica.com
10	MAGNETO	Integ. Engg, Canada	integratedsoft.com
11	MAGNUM	Field Precision, USA	fieldp.com
12	MAXWELL	Ansys Inc, USA	ansys.com/products/electronics/ansys-maxwell
13	OPERA	Cobham Tech. UK	operafea.com
14	QUICKFIELD	Tera Anal., Denmark	quickfield.com
15	SAMARIUM	Vitatech, India	Vitatechindia.com/welcome.php

Table 23. Motor-Specific Software

Software	Firm	Website
(A) FREE SOFTWARE		
KOIL	Free Univ, Italy	Koil.sourceforge.net
MotorAnalysis	VepcoTech, Russia	motoranalysis.com
EMETOR	Emetor, USA	emetor.com
(B) COMMERCIAL SOFTWARE		
BLDC	Magneforce, USA	magneforcess.com
BLDC	Yeadon Energy, USA	yeaddoninc.com
MANATEE	EoMYS, France	eomys.com
FLUX	Altair, France	cedrat.com/software/flux/flux-rotating-machines-package/
MotorCAD	Motor Design Ltd, UK	motor-design.com/motorcad.php
SPEED	Motor Design Ltd, UK	motor-design.com/speed.php
Motorsolve	Infolytica, Canada	infolytica.com
RMXPRT	ANSYS, USA	ansys.com/products/electronics/ansys-rmxprt

Table 24. Inductors/Transformers – Specific Software

SOFTWARE	Firm	Website
(Free)	Micrometals	micrometals.com/software.html
(Free)	Magnetics	mag-inc.com/design/software
INTUSOFT	Intusoft	www.intusoft.com/mag.htm
PEXPRT	ANSYS	ansys.com/products/electronics/ansys-pexpert
Choke	Rale	rale.ch/
Power	Ridley Engg	ridleyengineering.com/software.html

Please contact rao@magweb.us if you need assistance, e.g., in choosing a software that suits your specific needs, integrating MagWeb into your software, or if you would like to add your software to the list.