

PM-Wire™

Enabling solution for the design, manufacturing and application of permanent magnets

Technology

Reduces the cost and improves the performance of PM based products

Enabling Configurations – long-lengths, rings, helixes and more

Magnetization – magnetic flux distribution optimized for the application

High-Rate Manufacturing – mass produced / high yield - >98%

Value Proposition

Improves performance and lowers the cost of end-use products

Performance – optimized magnetization

- ✓ “Plug & Play” replacement – >10% performance improvement
- ✓ New product designs – >30% performance improvement

Lower Cost Materials – end-use performance equivalent to higher cost materials

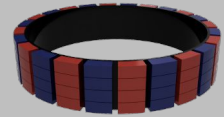
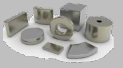
- ✓ Low demagnetization field – enable lower cost Rare Earth materials
- ✓ Higher temperature operation – for some cases replacing SmCo with NdFeB

Lower Cost Manufacturing – mass production / low capital costs

- ✓ Production line rates – > 6 meters per minute
- ✓ Automated – minimal labor, high quality

Lower Cost Assembly – safe and simplified assembly of end-use products

- ✓ Reduced part count – replace small piece-parts with “single-part” geometries
- ✓ Ease and Safety – reduce or eliminate magnetic forces during assembly



Conventional - “Me-Too” Magnets

Dozens / hundreds of piece parts
Single-Direction Magnetization

Motor Rotor Comparison



AML's PM-360™

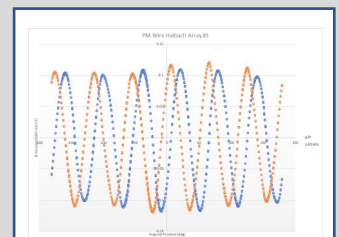
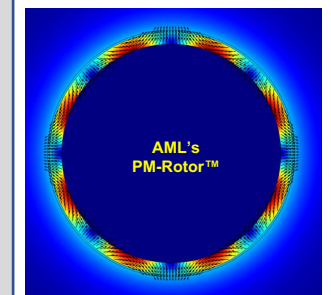
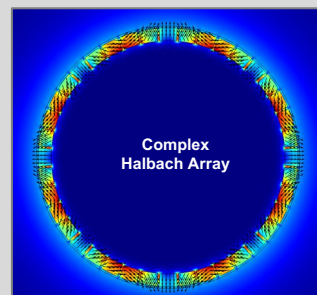
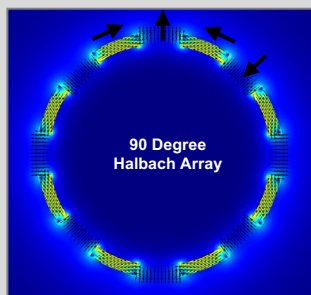
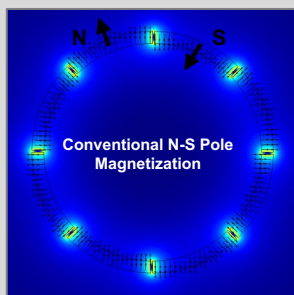
Significantly Reduced Part Count
Continuously changing magnetization

PM-Wire™ Rotors

Reduce the weight and maximize the performance of motors

Features

- ✓ Ideal Magnetic Field Distribution
- ✓ Single-Piece Rotor Assembly
- ✓ Improved radial force containment
- ✓ Iron-Free Rotor
- ✓ Made in the USA



AML

Reimagining the Magnet Technology that Drives the World

AML-Enabled.com