

Item	Description	Price
Motor Design		
Ferrite ring motor	Develop a ferrite ring (standard) motor. Optimize for one target application (nominal frame/cone size). Full specification review, predicted T/S parameter and dynamic linearity estimates. Uses stock parts from Tianle or Xiang Yang based upon customer's preference.	\$2,500.00
Neodymium cup motor	Develop a neodymium ring (standard) motor. Optimize for one target application (nominal cone/dome size). Full specification review, predicted T/S parameter and dynamic linearity estimates. Uses stock parts from Tianle or Xiang Yang based upon customer's preference.	\$2,750.00
Inductance Optimization	Run full optimization of motor for maximally linear inductance over desired range of motion and frequencies of application.	\$500.00
Each additional transducer size	Optimize motor to work with more than one size of nominal cone/frame/dome.	\$750.00
Planar Magnetic	Develop custom planar magnetic motor for one size of transducer. Use existing sized magnet from DMEGC or Xianmen One Mag or Ningbo Strong based on customer's preference. Includes suggested trace width and spacing based on copper or aluminum (customer's preference).	\$3,500.00
Basket Development		
Stamped	Design of a custom stamped steel frame basket based upon customer's requirements. Review of fitness for given application.	\$750.00
Cast	Design of a custom cast aluminum basket based upon customer's requirements. Review of fitness for given application.	\$1,000.00
Cone Development		
Aluminum	Develop cone for target application and specified basket.	\$500.00
Polypropylene	Develop cone for target application and specified basket.	\$500.00
Paper	Develop cone for target application and specified basket.	\$500.00
Kevlar	Develop cone for target application and specified basket.	\$650.00
Woven/Exotics	Develop cone for target application and specified basket.	\$750.00
Dustcap	Develop dustcap of customer's choice of materials for a specific cone. Customer must provide drawing and specifications of cone.	\$200.00
Tweeter/Mid Dome	materials.	\$1,000.00
Suspension Development		
Damper	Develop damper geometry and materials selection for a specified application, basket, and voice coil diameter.	\$750.00
Surround	Develop surround geometry and material selection for a specified application, basket and cone diameter.	\$750.00
Specification Creation		
Transducer	Full formal transducer specification with performance specification, T/S parameters, overall dimensions, and predicted frequency response and impedance.	\$250.00
Test	Full test specification for bench and production line testing of a transducer. Customer must specify application and provide all drawings and specifications for transducer.	\$500.00
Environmental	Full environmental test specification for bench and pre-production testing of a transducer. Customer must specify application and provide all drawings and specifications for transducer.	\$500.00
Life Testing	Full accelerated life test specification for pre-production testing of a transducer. Customer must specify application and provide all drawings and specifications for transducer.	\$500.00
Full Specification Package	Includes all specifications	\$1,500.00
Custom 3D CAD Engineering		
Magnet Boot	Design custom magnet boot for a ferrite ring motor. Does not include logo development.	\$300.00
Embossed/Debossed dustcap	Design custom embossed/debossed (customer's choice) dustcap with customer's logo. Does not include logo development.	\$500.00
Packaging Development	Design custom packaging solution. Includes design of EPS shells, inner box liner specification, outer gift box design. Customer must provide all artwork.	\$800.00
CAD	Other 3D CAD engineering as needed, per hour	\$150.00
Analysis	Other advanced design/R&D as needed, per hour	\$250.00
Acoustical Characterization	Frequency response, THD, IMD, buzz and rub performed by AudioPrecision	\$800.00
Linearity Characterization	Klippel testing for Xbl, Xle, Xcms and power compression	\$800.00
Packages		
Full Ferrite Ring Motor	Ferrite motor design, inductance optimization, frame (cast or stamped), surround, damper, cone/dustcap (or dome) and specifications.	\$5,500.00
Full Neodymium Cup Motor	Neodymium cup motor design, inductance optimization, frame (cast or stamped), surround, damper, cone/dustcap (or dome) and specifications.	\$6,500.00
Full Suspension	Surround and damper package	\$1,500.00
The Works	Full ferrite ring or neodymium cup motor development above PLUS full specification and packaging. Includes acoustical and linearity characterization of samples when provided by customer.	\$8,000.00