

Axial magnetic field systems

AMT&C LLC developed several types of axial magnetic field systems of permanent magnets that allow to reach highly homogenous field in a wide ranges of magnetic flux density and working area size. Examples of magnetic systems, given in the table, represent typical axial field systems that were designed and manufactured according to customized technical requirements.



Specifications:

Magnetic system material	NdFeB	NdFeB
Field direction	axial	axial
Flux density	0.95 Tesla	1.25 Tesla
Uniformity	better than 10^{-3}	better than 10^{-3}
Working volume	Ø20x20 mm	Ø20x20 mm
Field strength adjustment range	±3%	
Dimensions:		
Outer diameter	235 mm	300 mm
Length	220 mm	240 mm
Bore diameter	42 mm	50 mm

At your request the magnetic field source will be optimized to get the required parameters.

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