

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: VHBTM4910-based non-magnetic motor at different driving frequency under 48 MV m⁻¹

File Name: Supplementary Movie 2

Description: BAC2-based non-magnetic motor at different driving frequency under 48 MV m⁻¹

File Name: Supplementary Movie 3

Description: BAC2-based non-magnetic motor with transmission gears at different driving frequency under 48 MV m⁻¹

File Name: Supplementary Movie 4

Description: Process of pre-stretching using a custom-built rig