Short-Period Strong Focusing Undulator Scheme, A.S. KHLEBNIKOV, <u>A.V. SMIRNOV</u>, V.A. BAZYLEV, A.V. TULUPOV, RRC KI; R. TATCHYN, SLAC - A novel short-period hybrid/PM undulator scheme is considered. The magnetic structure does not contain smallscale PM pieces. The periodic magnetic field is generated by surface profiles machined into the steel yokes. The structure can provide 2.7 kGauss magnetic field amplitude and averaged gradients 150 - 500 T/m for 1/2 gap/period ratio and 4.5 mm vertical gap. Dipole and quadrupole field components are tunable. 3D magnetostatic field computations and data of measurements obtained for 9mmperiod mock-up structure are discussed.