

**Manufacturing Features and Performances of the Latest Long Models and the First Prototype for the LHC Project,** J. BILLAN, M. BONA, L. BOTTURA, O. PAGANO, R. PERIN, J.L. PERINET-MARQUET, D. PERINI, L. ROSSI, F. SAVARY, G. SPIGO, A. SIEMKO, J. VLOGAERT, L. WALCKIERS - CERN - This paper reports about the two latest 10-m-long models and one twin aperture 15-m-long prototype. Their main design features are a 5-block coil cross section, an intra-beam distance of 194 mm at room temperature and a 15-mm-wide superconducting cable. The collared coil of the long models were built in Industry and the assembly of the magnetic circuit and cold mass was done at CERN while the 15-m-long prototype was entirely made in Industry. Manufacturing features, assembly steps and quench performances of each magnet are presented. Results of magnetic measurements taken in the course of magnet assembly, during and after the cold test campaigns are also given.