FINEX®, one of the most successful alternative iron-making technologies jointly developed with SIEMENS-VAI, is based on the direct use of ore fines and non-coking coal. The key technologies of FINEX are fluidized bed reduction of ore fines, hot DRI fines compaction to HCI (Hot Compacted Iron), briquetting of coal fines, and melting of HCI into hot metal. POSCO has been operating the world’s first commercial FINEX plant, with 1.5 MT of annual capacity, since April 2007 and has added up a new 2.0 MT in January 2014.

In pursuit of eco-friendly and slim steelworks, POSCO has developed CEM process, a new downstream in the plant following successful development of FINEX®. Large portion among CR products can be replaced by thin HR products utilizing the benefits of CEM coming from the direct linking of the caster to the rolling mill. Operational records of CEM will demonstrate its superiority to conventional processes.