

A rotary kiln sealing system and rotary kiln equipment, relating to the technical field of sealing. The rotary kiln sealing system comprises a first housing (3212) and a second housing (3222). The second housing (3222) is annularly disposed outside the first housing (3212) in space, and a first gap is left between the first housing (3212) and the second housing (3222). An elastic compensation joint (323) is disposed outside the second housing (3222).