

The invention concerns a method for cooling a shaft furnace loading device, said loading device being equipped with a ring-shaped rotary joint (40), provided with affixed ring-shaped part (56) and a rotating ring-shaped part (46), for supplying cooling liquid to a rotating cooling circuit (36, 38). The invention is characterised in that it consists in feeding the joint (40) fixed part (56) with cooling liquid such that a leakage flow passes in a separating ring-shaped slot (58, 60) between the fixed part (56) and the rotating part (46) of the joint (40), to form therein a liquid joint. Said leakage flow is then collected and drained without passing through the cooling circuit (36, 38).

