

IKIO DIAPHRAGM TYPE

# OVEN DOOR

IKIO IRON WORKS CO.,LTD.  
IKIO ENGINEERING CO.,LTD.

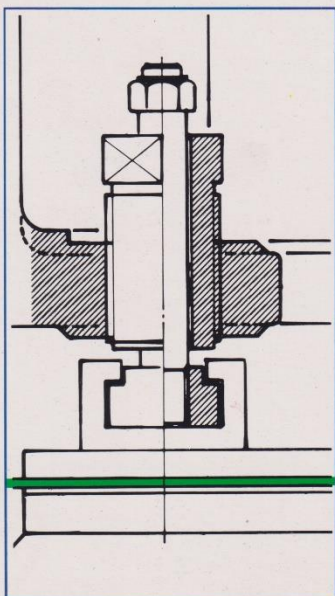
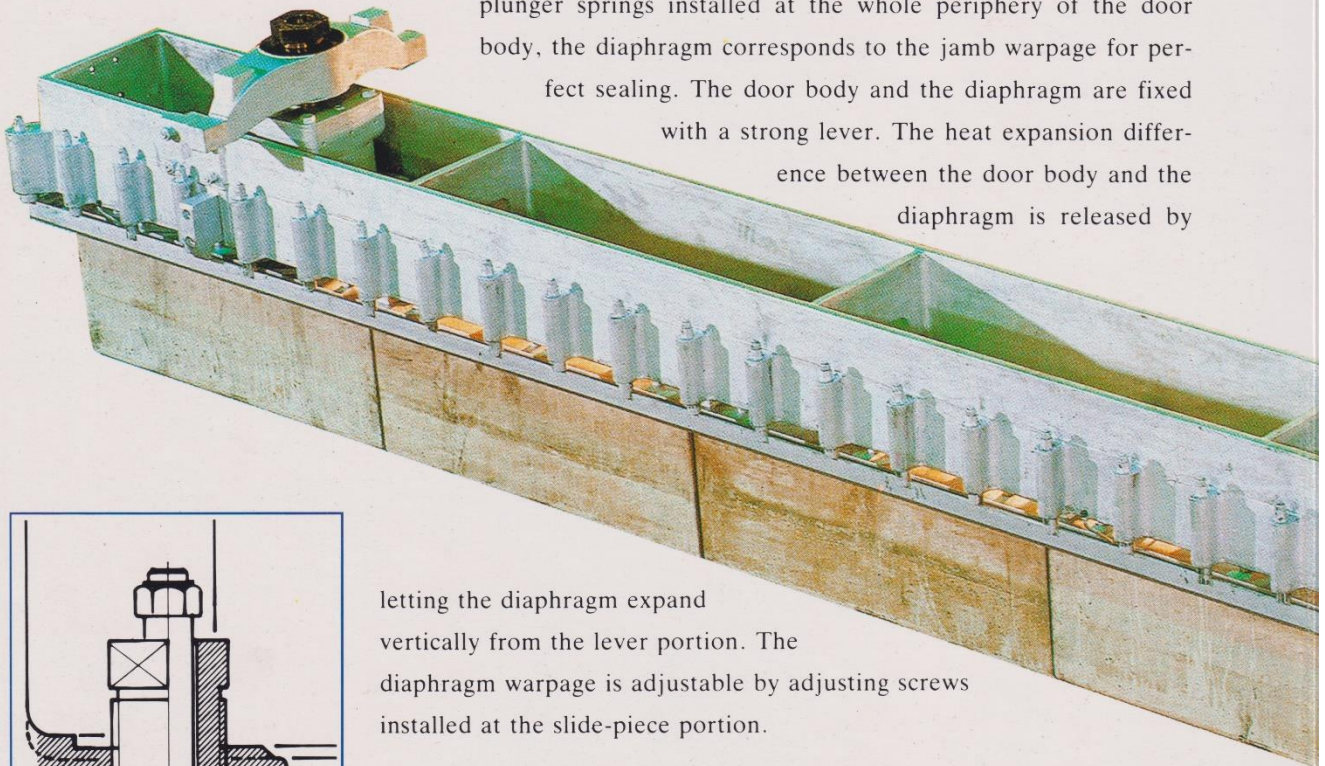
IKIO DIAPHRAGM TYPE  
COKE OVEN DOOR  
MODEL — II



## IKIO DIAPHRAGM TYPE COKE OVEN DOOR MODEL-II

- 1) How much is gas leakage from coke oven doors at your plant?
- 2) How do you think about energy loss and pollution problem due to gas leakage from doors?
- 3) We are a special-purposed company for engineering and manufacturing of coke oven doors, and are making various coke oven doors by our original technologies. Succeeding to IKIO DIAPHRAGM TYPE MODEL-I, we have developed MODEL-II.
- 4) Features of MODEL-II
  - 4-1) An air-gap is provided between the door body and the diaphragm. Due to low heat conductivity to the door body, heat radiation from the door body is decreased. Door body warpage is minimized, door handling is easy, ambient temperature in front of ovens is lowered, and circumstantial conditions in front of ovens are improved.

- 4-2) A thick plate is used to the diaphragm for sufficient strength. By means of plunger springs installed at the whole periphery of the door body, the diaphragm corresponds to the jamb warpage for perfect sealing. The door body and the diaphragm are fixed with a strong lever. The heat expansion difference between the door body and the diaphragm is released by



letting the diaphragm expand vertically from the lever portion. The diaphragm warpage is adjustable by adjusting screws installed at the slide-piece portion.

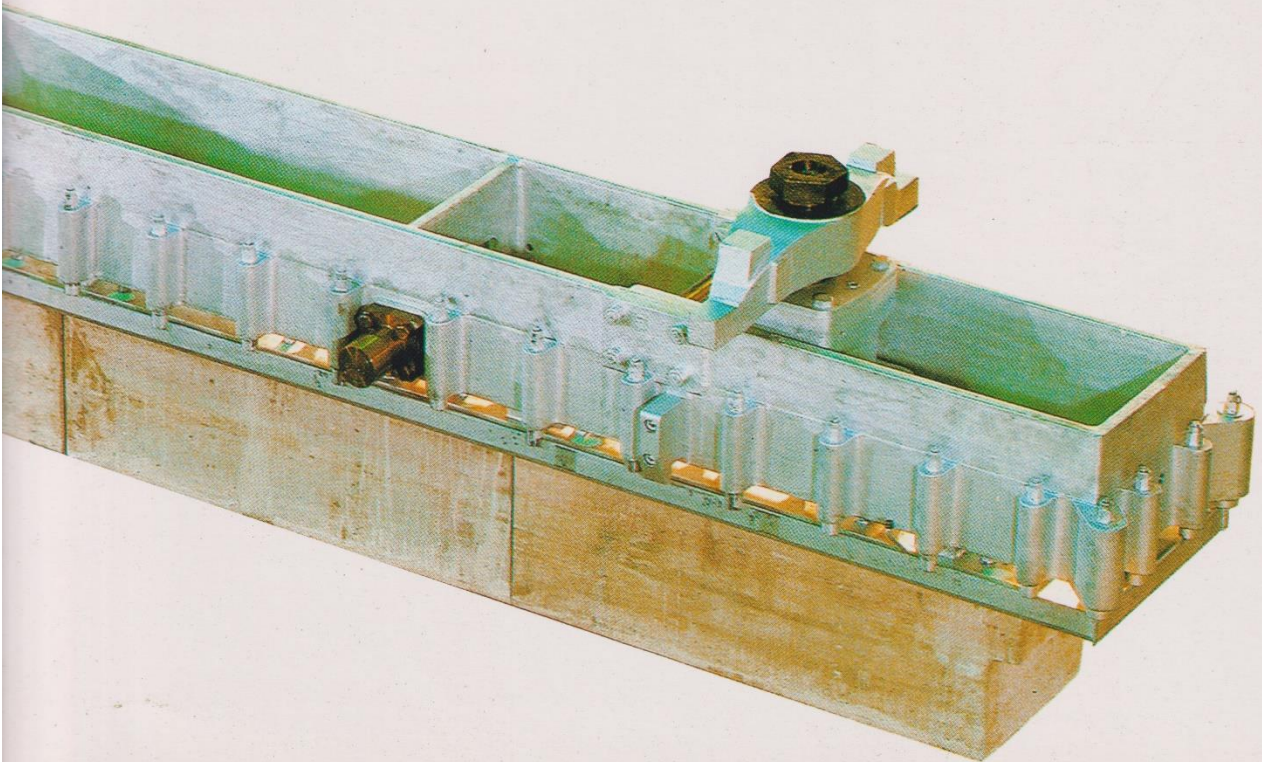
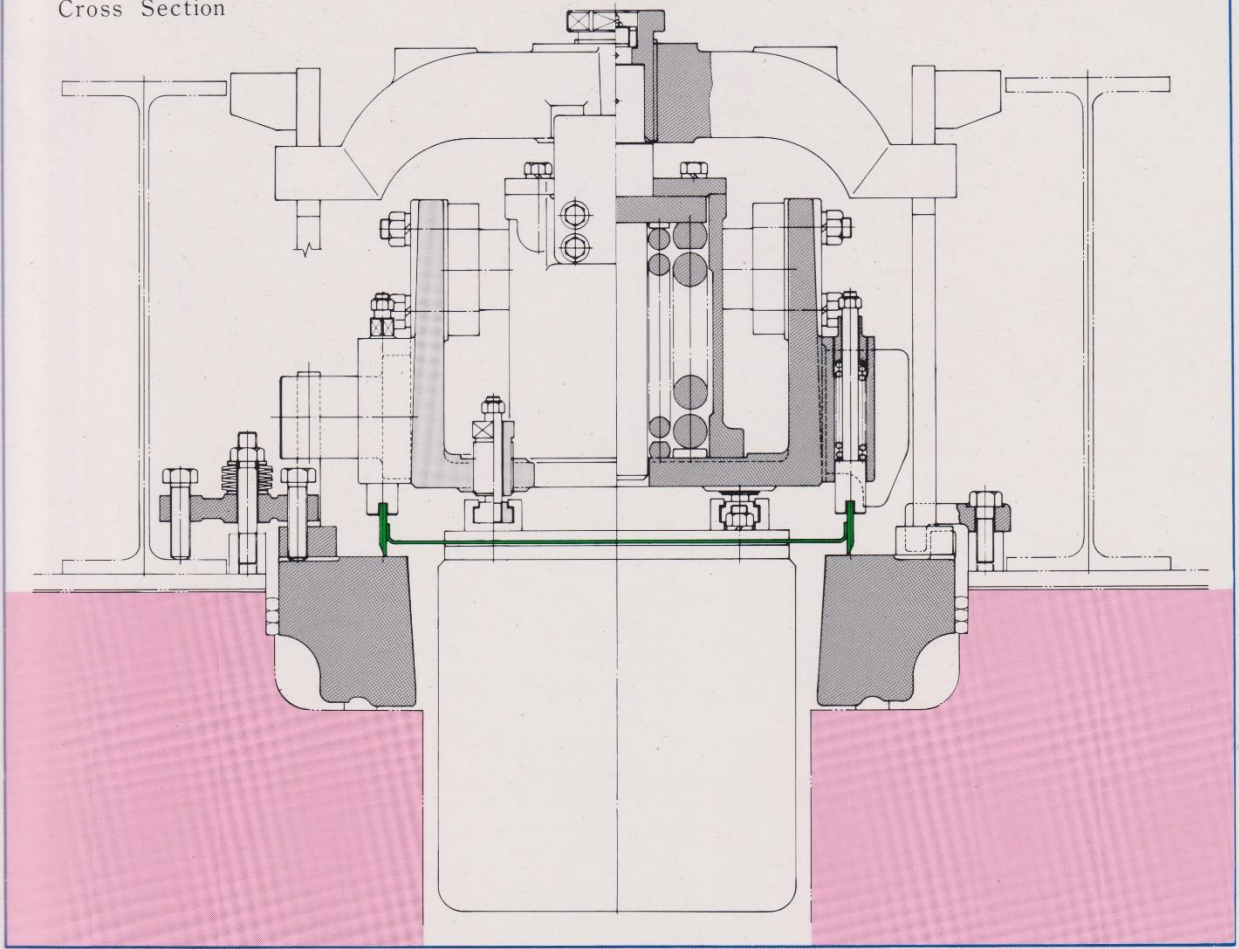
### Remarks:

If you have any question on coke oven doors, please do not hesitate to contact us. We have many engineers and are capable of furnishing coke oven doors that ensure satisfactory operation.




# Structural Specifications

Cross Section







**IKIO IRON WORKS CO., LTD.**

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