

QNZ15型家禽自动取内脏机设计与试验 Design and Experiment of QNZ15 Automatic Poultry Eviscerator

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摘要: 设计了一种扒取式家禽自动取内脏机,可按屠宰加工工艺要求将内脏一次全部取出。对该机的链轮传动系统、取内脏机械手、凸轮控制及高度调节机构等主要组成部件的设计进行了阐述,肉鸭取内脏加工试验表明,禽体质量为2.5~3.5 kg,挂拍底部到机械手末端的最大距离为310~320 mm时,取内脏加工效果较好。内脏残留主要是心脏,残留率5.6%,内脏破损情况综合评价指标为8.3。 This automatic poultry eviscerator was designed based on imported advanced poultry-eviscerating technology. The machine can eviscerate all poultry entrails at once, with the exception of the lung and kidney. The main parts of this prototype were introduced, including chain wheel system, eviscerating manipulator, cam mechanism and height adjustment mechanism etc. Processing tests were done to measure the main performance indexes of the prototype. The results showed that the optimum distance between the shackle bottom and the manipulator extremity was 310~320 mm for a duck size range of 2.5~ 3.5 kg (live weight). The percent of remaining entrails was 5.6%. The liver was easy to damage and the entrails damage mark was 8.3.

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