



appropriate container and a direct current motor is used to tilt the tray so that the mango is placed in the appropriate container. After the operation is completed, the tray returns to the original position to receive another mango.

The microprocessor based mango weight sizer currently can size 5 grades of mango but the grade range capability can be easily modified by alteration of the control software. The sizing capacity is approximately 514 fruits per hour with sizing efficiency of 97.5 % and consumes 1.74 baht of electricity per eight hour day operation. Loss due to mechanical bruising was not detected during the test.