



Complete Automation Solutions, Inc.

An Engineered Solutions Provider

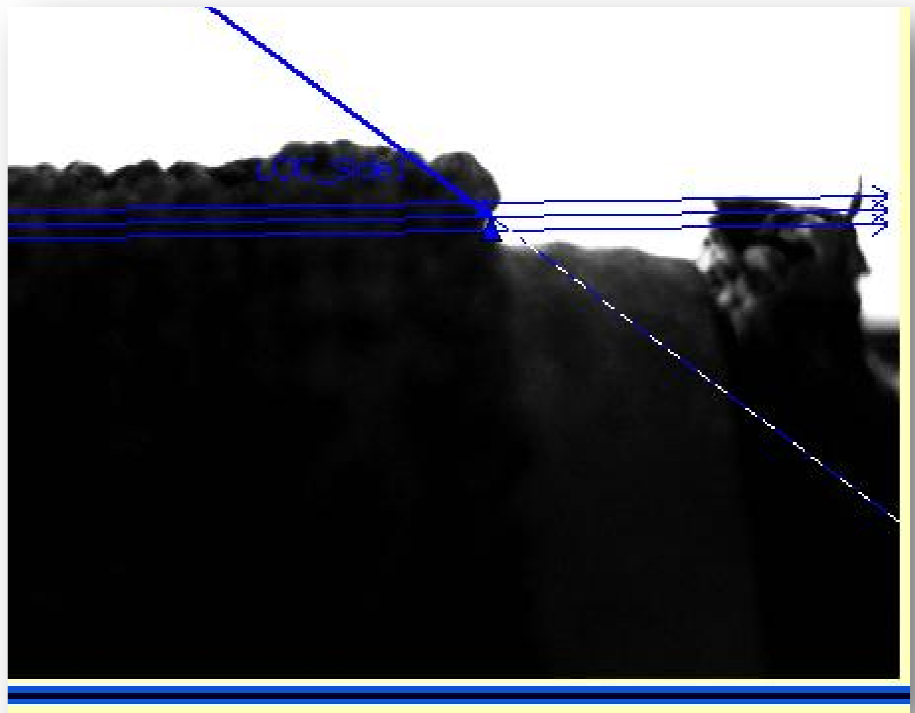
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CAS Camera Edge Guiding System

CAS announces our vision based Carpet Edge Guiding System to accurately locate the carpet's edge. Our Carpet Edge Guide System uses a camera to detect the carpet's edge then gives the appropriate output signal to reposition the existing roll centering motor or cutting mechanism. The CAS Edge Guiding System can detect the carpet edge regardless of the carpet color or salvage color/type. Our edge guiding system uses a unique setup that has the camera mounted on one side of a wrap roller and the camera's back light mounted on the opposing side of the wrap roller. This type of camera configuration creates a "silhouette" of the carpet that causing the edge to be easily located (see picture).

Once the edge is located by the camera, the information is used by our edge guiding algorithm within the system PLC. Also to enhance the positioning control, the operator enters data via the system HMI as to the desired edge center location. The PLC uses the desired centering position to control the motor's position for centering the carpet roll or cutting mechanism. These values can be adjusted on-the-fly by the operator and are saved for the future production runs. In addition, the system controls the indicator lights and buzzer based on the status of the system as well as alarms. Also, the control system is easily expanded to add other functions such as cutter feedback positioning via an encoder or linear potentiometer and other machine interface I/O as needed.



Contact CAS to have the patent pending *CAS Edge Guiding System* engineered to meet your specific needs.

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