

ABSTRACT

A contact wire inspection device and a contact wire inspection method that accurately detect a wear region of a contact wire are provided. A line sensor image generation unit 30 generates a line sensor image from images captured by a line sensor 22. A wear region extraction image generation unit 32, in accordance with a plurality of image processing execution procedures M registered in an image processing execution procedure storage unit 33, performs image processing to extract a wear region of the contact wire, scans outward from the extracted wear region and defines, as a boundary of the wear region, a position at which a luminance value becomes equal to or less than a preset luminance value, thereby correcting the wear region, and generates a plurality of wear region extraction images corresponding to each of the plurality of image processing execution procedures M. A wear region extraction image evaluation unit 34 selects the wear region extraction image having the highest evaluation value from among the plurality of wear region extraction images. A contact wire offset computation unit 35 and a contact wire remaining diameter computation unit 36 compute the offset and the remaining diameter of the contact wire on the basis of the selected wear region extraction image.

Fig. 2