WHAT IS CLAIMED IS:

1. A system for determining a fan blade clearance of a fan case relative to a fan rotor, the system comprising:

a bracket having a first end directly affixed to an outer surface of a spinner cone located at a center of the fan rotor, the bracket being configured to hold a laser module between adjacent fan blades connected to the fan rotor, the laser module being attached at a second end of the bracket opposite the first end thereof;

the bracket further configured to hold an inclinometer, wherein the inclinometer configured to measure a circumferential position of the laser module;

the laser module comprising a laser sensor configured to transmit a laser beam toward the fan case as the fan rotor is rotated to receive a reflected laser beam from the fan case, thereby defining a path length indicative of a distance between the laser module and the fan case for a plurality of points disposed circumferentially around the fan case;

the laser module further configured to transmit distance measurements to a computing device for the plurality of points;

the inclinometer configured to transmit circumferential position measurements to the computing device; and

the computing device configured to process the distance measurements and the circumferential position measurements to determine a clearance distance between a fan blade and the fan case at the circumferential position, wherein based on the determined clearance distance exceeding a threshold a corrective action is initiated.

2. The system of claim 1, wherein the bracket is further configured to allow the laser module to be located at a second position on the bracket along an axis of rotation of the fan rotor.

3. The system of claim 1, wherein the bracket is attached to the spinner cone using an adhesive, a magnet, or a vacuum.

4. The system of claim 1, wherein affixing the bracket to the spinner cone comprises removal of one or more axially positioned existing spinner cone fasteners.

5. The system of claim 1, wherein the laser module comprises a scanning laser configured to transmit a plurality of laser beams toward the fan case along an axis of rotation of the fan rotor, thereby defining the path length indicative of the distance between the laser module and the fan case for the plurality of points disposed circumferentially and axially around the fan case.

6. The system of claim 1, wherein the laser module is configured to transmit the distance measurements to the computing device wirelessly.

7. The system of claim 1, further comprising an amplifier and an analog-to-digital converter (ADC), wherein the amplifier is configured to receive a signal from the laser sensor and output an analog value representing a measured distance.

8. The system of claim 1, wherein if the clearance distance is classified as ideal if the distance between the fan blade and the fan case is determined to be between 0.252 inches and 0.400 inches.

9. A method of inspecting fan blade clearance of a fan case relative to a fan rotor, the method comprising:

rotating the fan rotor, wherein a first end of a bracket is directly affixed to an outer surface of a spinner cone located at a center of the fan rotor, the bracket being arranged between adjacent fan blades connected to the fan rotor, wherein the bracket comprises a laser module being attached at a second end of the bracket opposite the first end thereof and an inclinometer configured to measure a circumferential position of the laser module, and wherein the laser module comprises a laser sensor;

projecting, from the laser sensor, a laser beam toward the fan case as the fan rotor is rotated;

receiving, by the laser sensor, a reflected laser beam from the fan case, thereby defining a path length indicative of a distance between the laser module and the fan case for a plurality of points disposed circumferentially around the fan case;

determining, by the inclinometer, the circumferential position of the laser module;

transmitting, by the laser module, a distance measurement and a circumferential position data for each of the plurality of points to a computing device;

processing, by the computing device, the distance measurement and the circumferential position data for each of the plurality of points;

determining, by the computing device, a clearance distance between a fan blade and the fan case; and

initiating a corrective action based on the determined clearance distance exceeding a threshold value.

10. The method of claim 9, further comprising relocating the laser module to a second position on the bracket along an axis of rotation of the fan rotor.

11. The method of claim 9, wherein the bracket is attached to the spinner cone using an adhesive, a magnet, or a vacuum.

12. The method of claim 9, further comprising removing of one or more axially positioned existing spinner cone fasteners.

13. The method of claim 9, wherein the rotating, projecting, receiving, and transmitting are performed utilizing a single person in 30 minutes.

14. The method of claim 9, further comprising attaching the bracket directly to the fan rotor, wherein the attaching negates any requirement to remove the spinner cone from the fan rotor.

15. The method of claim 9, further comprising classifying the clearance distance as ideal if the distance between the fan blade and the fan case is determined to be between 0.252 inches and 0.400 inches.

16. A non-transitory computer readable storage medium comprising instructions which when executed, cause a machine to at least:

rotate a fan rotor, wherein a first end of a bracket is directly affixed to an outer surface of a spinner cone located at a center of the fan rotor, the bracket being arranged between adjacent fan blades connected to the fan rotor, wherein the bracket comprises a laser module being attached at a second end of the bracket opposite the first end thereof; and an inclinometer configured to measure a circumferential position of the laser module with the laser module, and wherein the laser module comprises a laser sensor;

project, from the laser sensor, a laser beam toward a fan case as the fan rotor is rotated;

receive, by the laser sensor, a reflected laser beam from the fan case, thereby defining a path length indicative of a distance between the laser module and the fan case for a plurality of points disposed circumferentially around the fan case;

determine, by the inclinometer, the circumferential position of the laser module;

transmit, by the laser module, a distance measurement and a circumferential position data for each of the plurality of points to a computing device;

process, by the computing device, the distance measurement and the circumferential position data for each of the plurality of points;

determine, by the computing device, a clearance distance between a fan blade and the fan case; and

initiate a corrective action based on the determined clearance distance exceeding a threshold value.

17. The non-transitory computer readable storage medium of claim 16, further including instructions which when executed, cause the machine to at least relocate the laser module to a second position on the bracket along an axis of rotation of the fan rotor.

18. The non-transitory computer readable storage medium of claim 16, wherein the bracket is attached to the fan rotor using an adhesive, a magnet, or a vacuum.