WHAT IS CLAIMED IS:

1. A system for performing ultrasonic procedures within a turbomachine, the system comprising:

a bladder including a bladder body for positioning within the turbomachine, wherein the bladder is inflatable to at least partially define an ultrasonic tank within the turbomachine for containing a fluid medium; and

a probe assembly including an extension member and ultrasonic transmitter, the ultrasonic transmitter coupled to or positioned within the extension member, the extension member insertable into the ultrasonic tank for positioning the ultrasonic transmitter within the ultrasonic tank.

2. The system of claim 1, wherein the bladder is a first bladder and the bladder body is a first bladder body, and wherein the system further comprises:

a second bladder including a second bladder body for positioning within the turbomachine, wherein the second bladder body is inflatable to at least partially define the ultrasonic tank.

3. The system of claim 2, wherein the first bladder is configured to be positioned at an upstream location within the turbomachine and the second bladder is configured to be positioned at a downstream location within the turbomachine to define the ultrasonic tank therebetween.

4. The system of claim 3, wherein the turbomachine comprises a component, and wherein the first bladder is configured to be positioned upstream of the component and the second bladder is configured to be positioned downstream of the component for at least one of ultrasonic cleaning, inspection, or modeling of the component.

5. The system of claim 1, wherein the probe assembly further includes an ultrasonic receiver coupled to or positioned within the extension member and configured to receive at least a portion of ultrasonic waves after the ultrasonic waves have reflected off the turbomachine.

6. The system of claim 1, wherein the system further comprises:

a fluid source fluidly coupled to the bladder for inflating the bladder.

7. The system of claim 1, wherein the bladder comprises at least one of a plastic material, a film, a fibrous web, a rubber material, or a paper material.

8. The system of claim 1, wherein the fluid medium comprises a cleaning fluid.

9. The system of claim 1, wherein the probe assembly is a snake arm assembly, and wherein the extension member is a snake arm of the snake arm assembly.

10. A method for performing an ultrasonic procedure within a turbomachine comprising a component, the method comprising:

positioning a bladder within the turbomachine to at least partially define an ultrasonic tank within the turbomachine;

providing the ultrasonic tank with a fluid medium;

positioning an ultrasonic transmitter of a probe assembly into the ultrasonic tank;

emitting ultrasonic waves from the ultrasonic transmitter through the fluid medium to the component of the turbomachine.

11. The method of claim 10, wherein the turbomachine is in situ.

12. The method of claim 10, further comprising:

positioning a second bladder within the turbomachine to at least partially define the ultrasonic tank.

13. The method of claim 10, wherein the component is positioned at least partially within the ultrasonic tank.

14. The method of claim 10, further comprising:

repositioning the ultrasonic transmitter of the probe assembly within the ultrasonic tank.

15. The method of claim 10, wherein emitting ultrasonic waves from the ultrasonic transmitter through the fluid medium to the component of the turbomachine includes removing deposits on the component.

16. The method of claim 10, further comprising:

~~positioning an ultrasonic receiver of the probe assembly into the ultrasonic tank; and~~

~~sensing data indicative of reflected ultrasonic waves off of the component with the ultrasonic receiver.~~

~~17. The method of claim 16, further comprising:~~

~~inspecting the data indicative of the reflected ultrasonic waves for an undesirable characteristic on or within the component.~~

~~18. The method of 17, wherein the undesirable characteristic is at least one of damage to the component, wear to the component, or deposit build-up on the component.~~

~~19. The method of 16, the method further comprising:~~

~~building a model of at least a portion of the turbomachine using the data indicative of the reflected ultrasonic waves.~~

~~20. A turbomachine assembly comprising:~~

~~a turbomachine having a component; and~~

~~an ultrasonic system comprising:~~

~~a bladder including a bladder body positioned within the turbomachine, wherein the bladder is inflatable to at least partially define an ultrasonic tank within the turbomachine for containing a fluid medium; and~~

~~a probe assembly including an extension member and ultrasonic transmitter, the ultrasonic transmitter coupled to or positioned within the extension member, the extension member insertable into the ultrasonic tank for positioning the ultrasonic transmitter within the ultrasonic tank.~~

1. A system for performing ultrasonic procedures within a turbomachine, the system comprising:

a first bladder including a first bladder body for positioning within the turbomachine through a first access port, wherein the first bladder is inflatable to at least partially define an ultrasonic tank within the turbomachine for containing a fluid medium;

a probe assembly including an extension member and ultrasonic transmitter, the ultrasonic transmitter coupled to or positioned within the extension member, the extension member insertable, through a second access port spaced apart from the first access port, into the ultrasonic tank for positioning the ultrasonic transmitter within the ultrasonic tank; and

a second bladder including a second bladder body for positioning within the turbomachine through a third access port spaced apart from the first and second access ports, wherein the second bladder body is inflatable to at least partially define the ultrasonic tank.

2. The system of claim 1, wherein the first bladder is configured to be positioned at an upstream location within the turbomachine and the second bladder is configured to be positioned at a downstream location within the turbomachine to define the ultrasonic tank therebetween.

3. The system of claim 2, wherein the turbomachine comprises a component, and wherein the first bladder is configured to be positioned upstream of the component and the second bladder is configured to be positioned downstream of the component for at least one of ultrasonic cleaning, inspection, or modeling of the component.

4. The system of claim 1, wherein the probe assembly further includes an ultrasonic receiver coupled to or positioned within the extension member and configured to receive at least a portion of ultrasonic waves after the ultrasonic waves have reflected off the turbomachine.

5. The system of claim 1, wherein the system further comprises:

a fluid source fluidly coupled to the bladder for inflating the bladder.

6. The system of claim 1, wherein the bladder comprises at least one of a plastic material, a film, a fibrous web, a rubber material, or a paper material.

7. The system of claim 1, wherein the fluid medium comprises a cleaning fluid.

8. The system of claim 1, wherein the probe assembly is a snake arm assembly, and wherein the extension member is a snake arm of the snake arm assembly.

9. A method for performing an ultrasonic procedure within a turbomachine comprising a component, the method comprising:

positioning a first bladder within the turbomachine through a first access port to at least partially define an ultrasonic tank within the turbomachine;

providing the ultrasonic tank with a fluid medium;

positioning an ultrasonic transmitter of a probe assembly into the ultrasonic tank through a second access port spaced apart from the first access port;

positioning a second bladder within the turbomachine through a third access port spaced apart from the first and second access ports to at least partially define the ultrasonic tank; and

emitting ultrasonic waves from the ultrasonic transmitter through the fluid medium to the component of the turbomachine.

10. The method of claim 9, wherein the turbomachine is in situ.

11. The method of claim 9, wherein the component is positioned at least partially within the ultrasonic tank.

12. The method of claim 9, further comprising:

repositioning the ultrasonic transmitter of the probe assembly within the ultrasonic tank.

13. The method of claim 9, wherein emitting ultrasonic waves from the ultrasonic transmitter through the fluid medium to the component of the turbomachine includes removing deposits on the component.

14. The method of claim 9, further comprising:

positioning an ultrasonic receiver of the probe assembly into the ultrasonic tank; and

sensing data indicative of reflected ultrasonic waves off of the component with the ultrasonic receiver.

15. The method of claim 14, further comprising:

inspecting the data indicative of the reflected ultrasonic waves for an undesirable characteristic on or within the component.

16. The method of 15, wherein the undesirable characteristic is at least one of damage to the component, wear to the component, or deposit build-up on the component.

17. The method of 14, the method further comprising:

building a model of at least a portion of the turbomachine using the data indicative of the reflected ultrasonic waves.

18. A turbomachine assembly comprising:

a turbomachine having a component; and

an ultrasonic system comprising:

a first bladder including a first bladder body positioned within the turbomachine through a first access port, wherein the first bladder is inflatable to at least partially define an ultrasonic tank within the turbomachine for containing a fluid medium;

a probe assembly including an extension member and ultrasonic transmitter, the ultrasonic transmitter coupled to or positioned within the extension member, the extension member insertable, through a second access port spaced apart from the first access port, into the ultrasonic tank for positioning the ultrasonic transmitter within the ultrasonic tank; and

a second bladder including a second bladder body positioned within the turbomachine through a third access port spaced apart from the first and second access ports wherein the second bladder body is inflatable to at least partially define the ultrasonic tank.