CLAIMS

1. A method of manufacturing a coated tool by forming a diamond-like carbon film on a surface of a base by a filtered arc ion plating process, the method comprising:

a first process of subjecting the surface of the base to a gas bombardment treatment by applying a negative bias voltage of from -2500 V to -1500 V to the base and introducing a mixed gas containing hydrogen gas into a furnace; and

a second process of forming a diamond-like carbon film on the surface of the base by introducing nitrogen gas into the furnace, after the gas bombardment treatment has been performed, and feeding a current to a graphite target,

the second process comprising reducing a flow rate of the nitrogen gas and increasing the current fed to the graphite target.

2. The method of manufacturing a coated tool according to claim 1, wherein the diamond-like carbon film has a thickness of 2.0 μm or more.

3. The method of manufacturing a coated tool according to claims 1 or 2, wherein a total of an increase in the current fed to a graphite target in the increasing of the current fed to the graphite target is 40 A or more.

CLAIMS

1. A method of manufacturing a coated tool by forming a diamond-like carbon film on a surface of a base by a filtered arc ion plating process, the method comprising:

a first process of subjecting a surface of a base placed in a furnace to a gas bombardment treatment by applying a negative bias voltage of from -2500 V to -1500 V to the base and introducing a mixed gas containing hydrogen gas into the furnace; and

a second process of forming a diamond-like carbon film on the surface of the base by introducing nitrogen gas into the furnace, after the gas bombardment treatment has been performed, and feeding a current to a graphite target,

the second process comprising reducing a flow rate of the nitrogen gas and increasing the current fed to the graphite target.

2. The method of manufacturing a coated tool according to claim 1, wherein the diamond-like carbon film has a thickness of 2.0 μm or more.

3. The method of manufacturing a coated tool according to claims 1 or 2, wherein a total of an increase in the current fed to a graphite target in the increasing of the current fed to the graphite target is 40 A or more.