In view of the above, an object of the present invention is to provide a compressor in which an air gap is uniform throughout the entire circumference, and a method for producing the compressor.

Solution to Problem

[0007]

According to the first aspect of the invention, a compressor includes a compression mechanism and a drive mechanism which are disposed in a casing including a cylindrical member, the drive mechanism including: a stator fixed to an inner circumferential surface of the cylindrical member; and a rotor disposed inside the stator, the rotor being configured to rotate with a drive shaft, the compression mechanism including: a cylinder main body including a compression chamber in which a roller driven by the drive shaft is disposed; an end surface member attached to an end surface of the cylinder main body; a muffler main body attached to the end surface member; an intake hole communicating with the compression chamber and extending in a direction crossing the drive shaft; and a circular hole located radially outside the compression chamber and extending in a direction parallel to the drive shaft. The circular hole opens, outside the muffler main body, to a space inside the casing. At least a part of the circular hole is located within an area defined by extending the intake hole in a plan view.

[0008]

According to the fifth aspect of the invention, a method for producing a compressor includes: a first step of positioning

CLAIMS

[Claim 1]

A compressor comprising a compression mechanism and a drive mechanism which are disposed in a casing including a cylindrical member,

the drive mechanism comprising:

a stator fixed to an inner circumferential surface of the cylindrical member; and

a rotor disposed inside the stator, the rotor being configured to rotate with a drive shaft,

the compression mechanism comprising:

a cylinder main body including a compression chamber in which a roller driven by the drive shaft is disposed;

an end surface member attached to an end surface of the cylinder main body;

a muffler main body attached to the end surface member;

an intake hole communicating with the compression chamber and extending in a direction crossing the drive shaft; and

a circular hole located radially outside the compression chamber and extending in a direction parallel to the drive shaft, wherein

the circular hole opens, outside the muffler main body, to a space inside the casing; and

at least a part of the circular hole is located within an area defined by extending the intake hole in a plan view.

[Claim 2]

The compressor according to claim 1, wherein the circular hole is formed by machining or sintering.