

PMR 3202

Laboratório de Projetos

Aula 06: Estudo do compressor



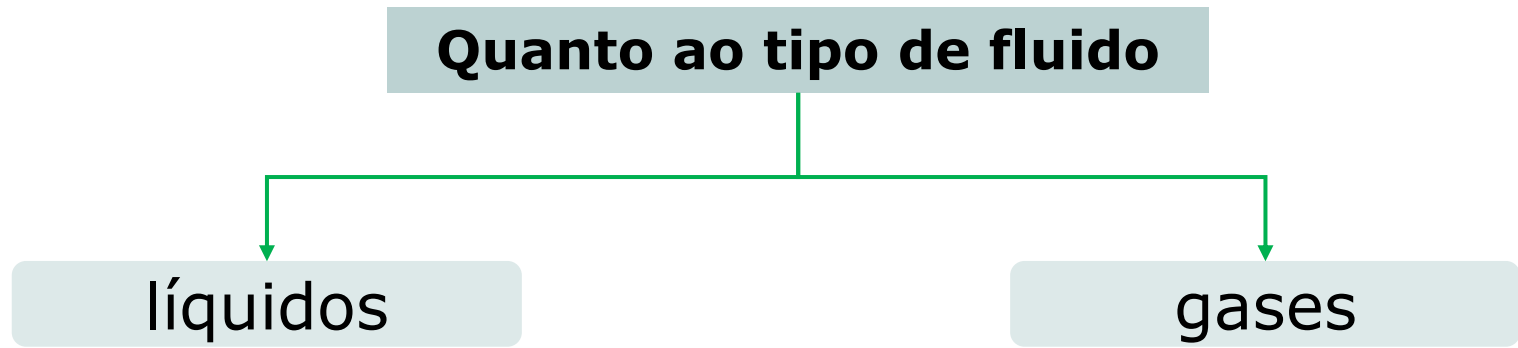


Compressores: definição

- **Compressores são...**



Compressores: classificação

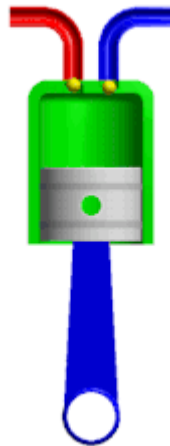




Compressores: classificação

Quanto ao funcionamento

Volumétricos

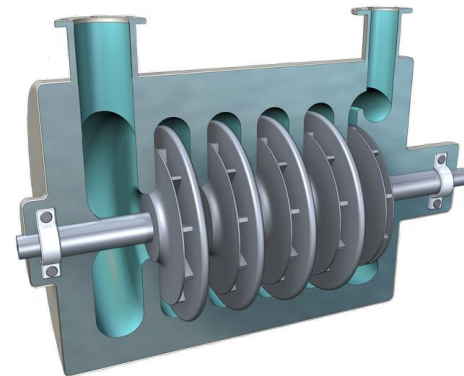
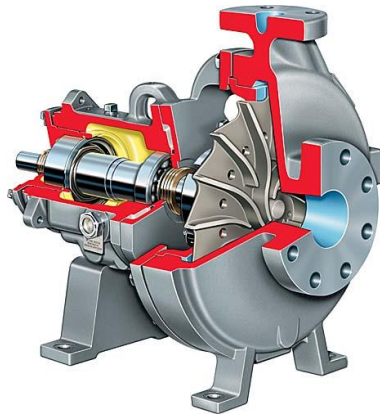
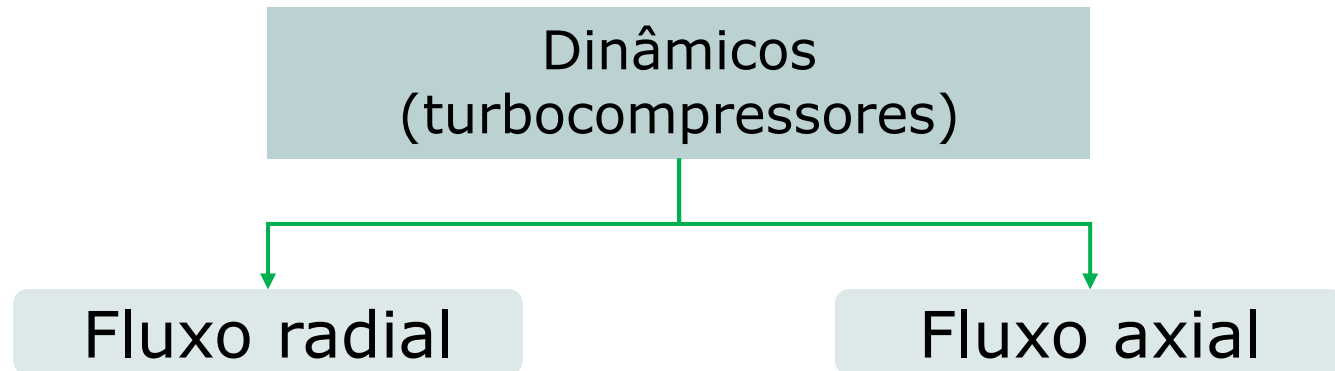


Dinâmicos
(turbocompressores)



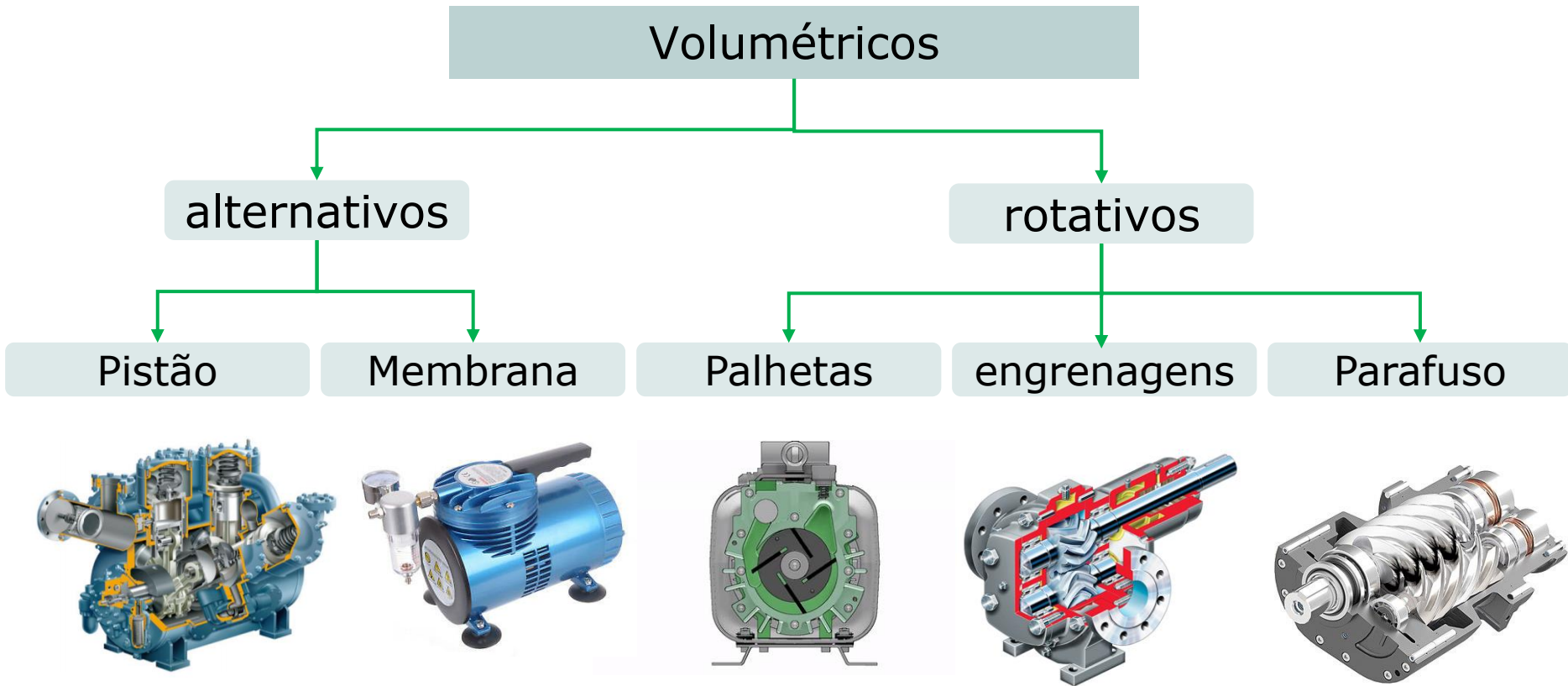


Compressores: classificação





Compressores: classificação





Compressores: classificação

Volumétricos

alternativos

rotativos

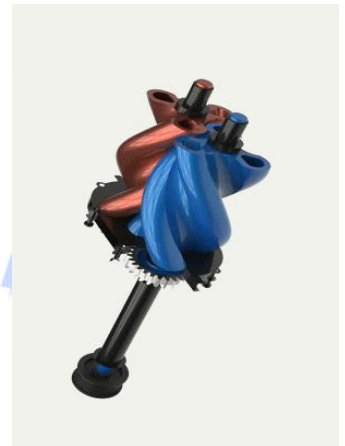
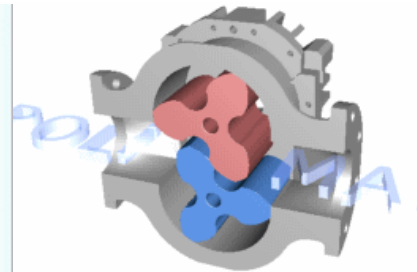
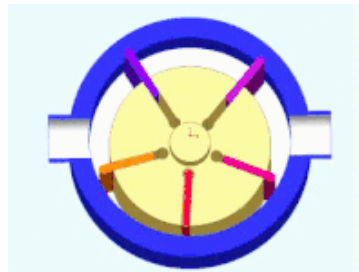
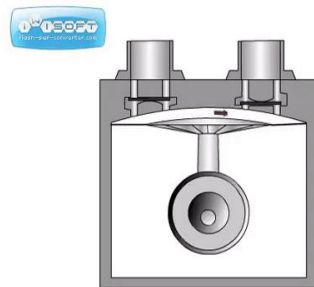
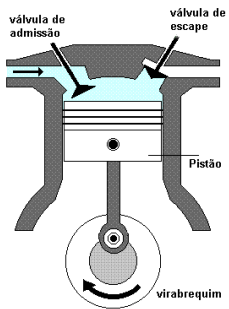
Pistão

Membrana

Palhetas

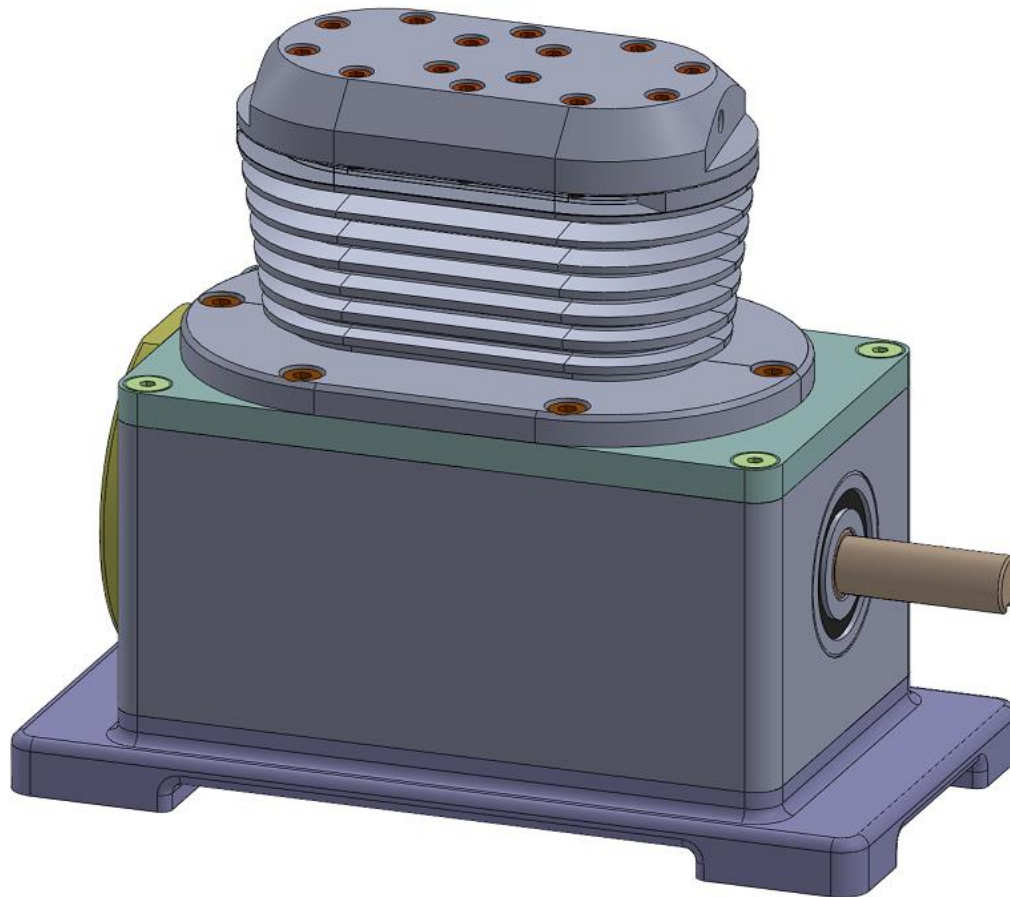
engrenagens

Parafuso





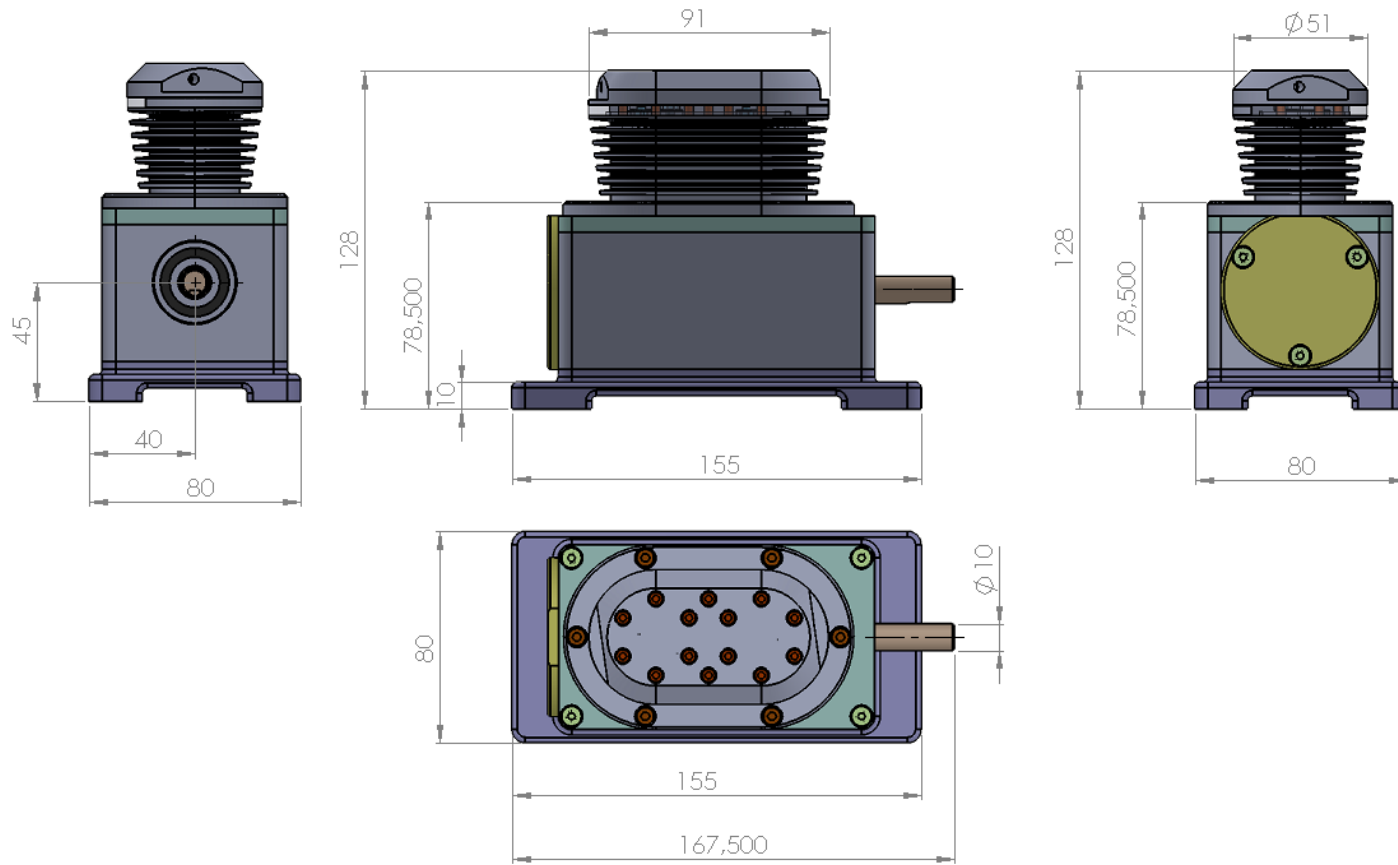
Compressor de ar compacto





Compressor de ar compacto

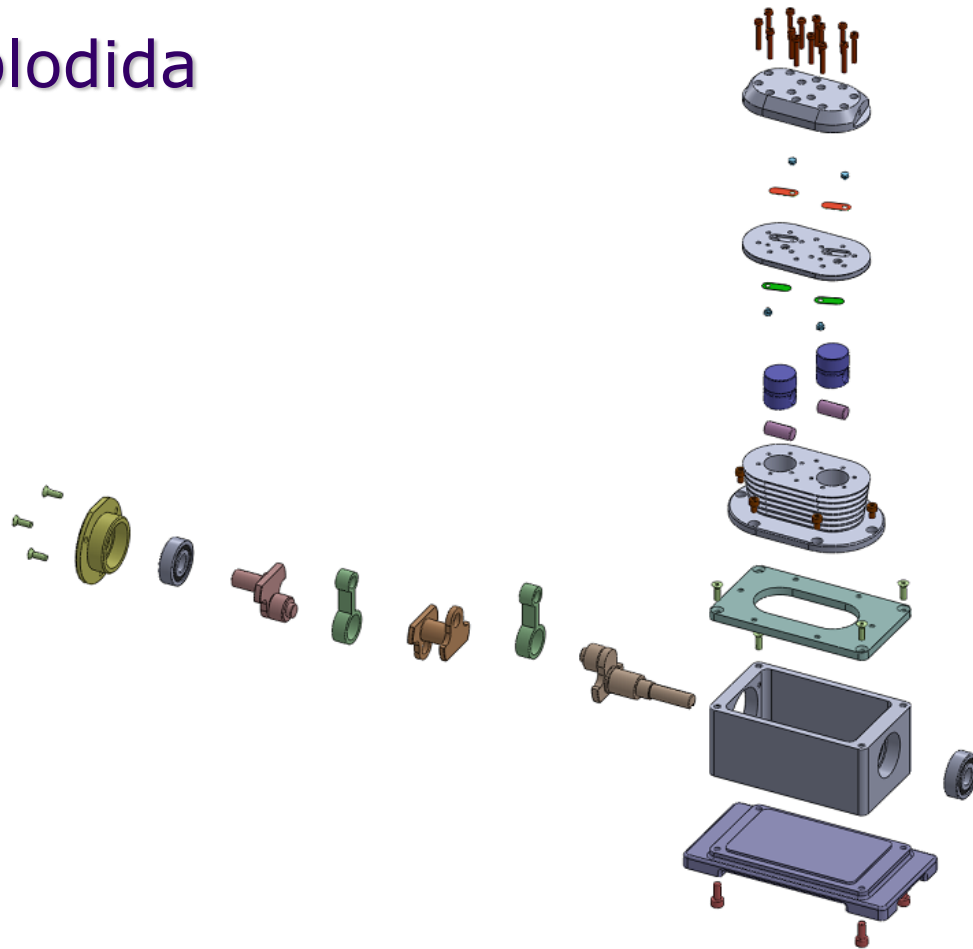
Dimensões principais





Compressor de ar compacto

Vista explodida

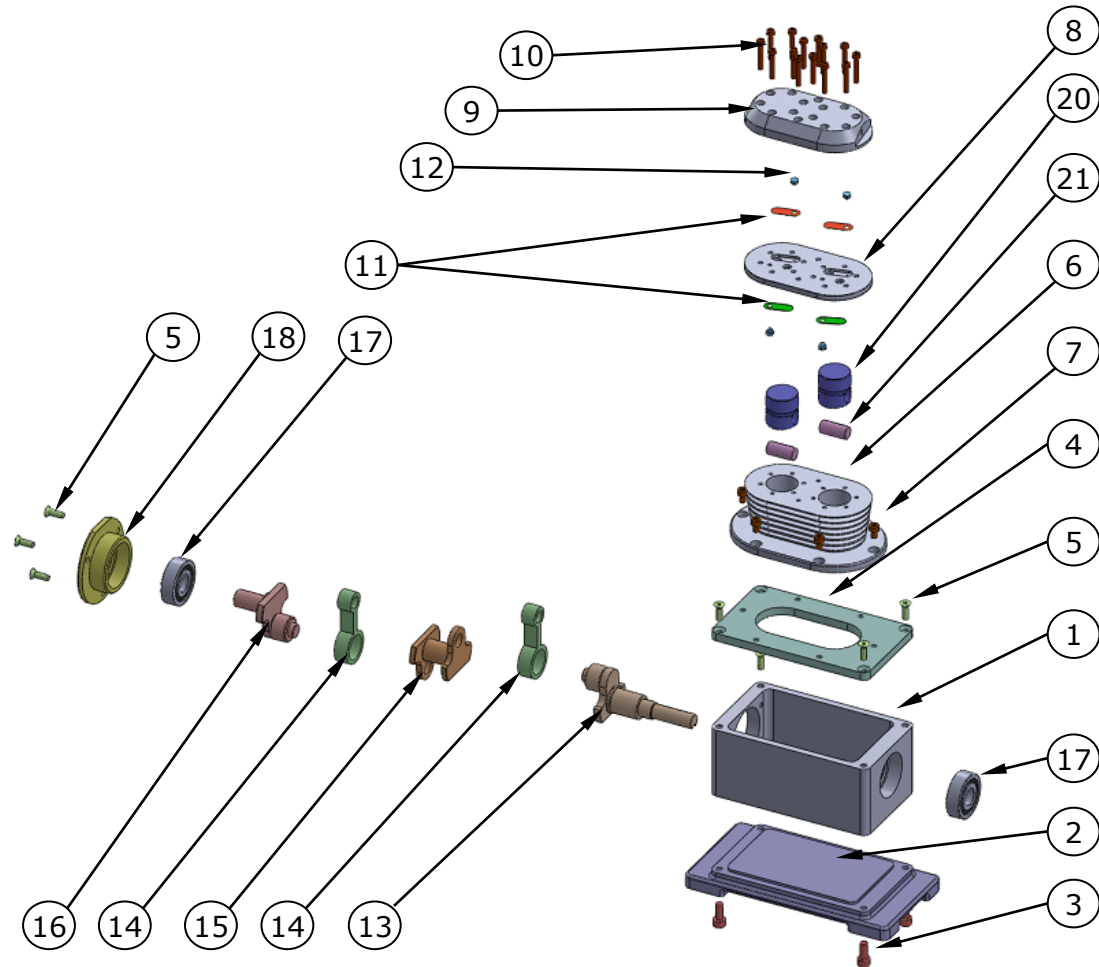




Compressor de ar compacto

Componentes

Item	Denominação	Material	Qtd.
1	Carcaça	fofo GGG20	01
2	Base	fofo GGG20	01
3	Parafusos DIN 912 M5X12	Comp. Comercial	04
4	Tampa	fofo GGG20	01
5	Parafusos DIN 10642 M4X10	Comp. Comercial	08
6	Camisa com aletas	fofo GGG20	01
7	Parafusos DIN 912 M4X6	Comp. Comercial	06
8	Placa das válvulas	Aço ANBT 1020	01
9	Cabeçote	fofo GGG20	01
10	Parafusos DIN 912 M3X12	Comp. Comercial	10
11	Válvulas	Aço mola	04
12	Parafusos DIN 7500 M3X4	Comp. Comercial	04
13	Semi eixo de acionamento	fofo GGG20	01
14	Biela	fofo GGG20	01
15	Semi eixo intermediário	fofo GGG20	01
16	Semi eixo final	fofo GGG20	01
17	Rolamento 7201A CC ZZ	Comp. Comercial	02
18	Flange de monategm do rolamento	Aço ANBT 1010	01

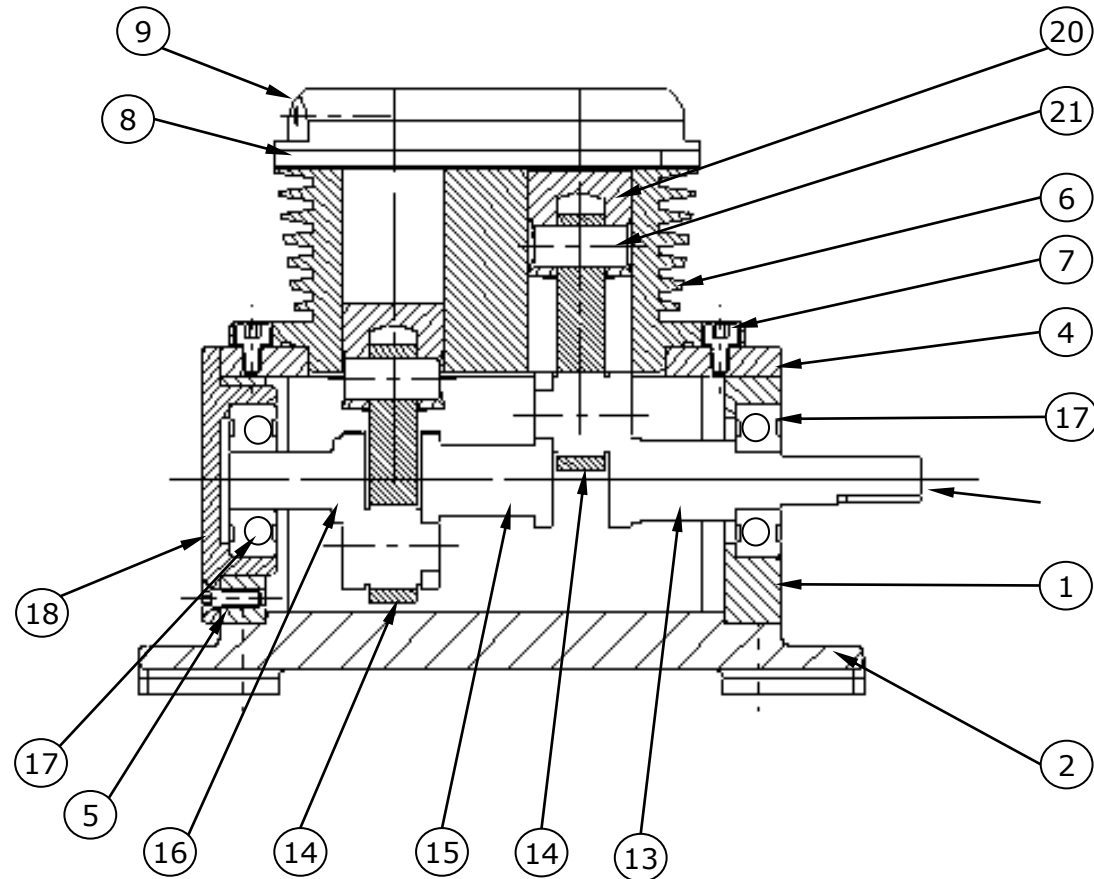




Compressor de ar compacto

Componentes

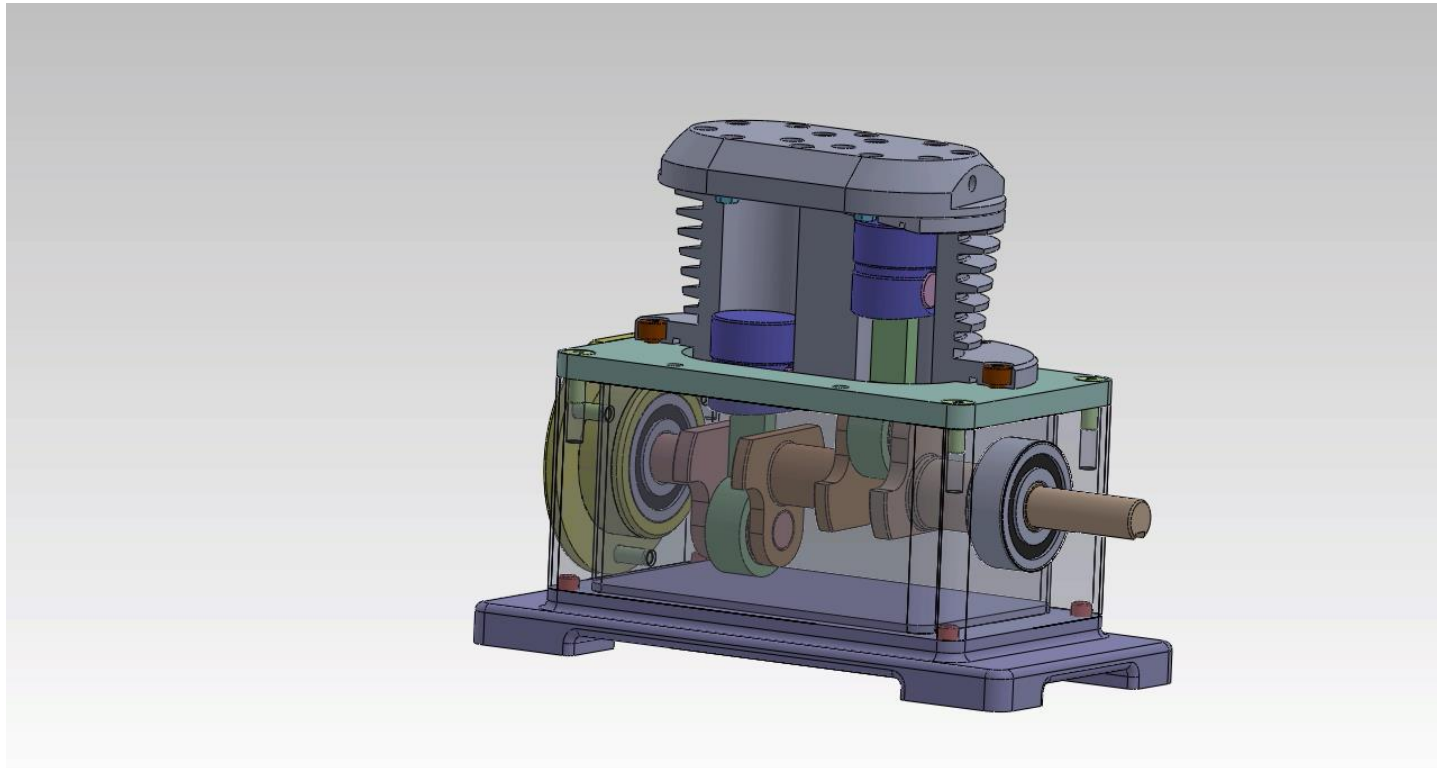
Item	Denominação	Material	Qtd.
1	Carcça	fofo GGG20	01
2	Base	fofo GGG20	01
3	Parafusos DIN 912 M5X12	Comp. Comercial	04
4	Tampa	fofo GGG20	01
5	Parafusos DIN 10642 M4X10	Comp. Comercial	08
6	Camisa com aletas	fofo GGG20	01
7	Parafusos DIN 912 M4X6	Comp. Comercial	06
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11	Válvulas	Aço mola	04
12	Parafusos DIN 7500 M3X4	Comp. Comercial	04
13	Semi eixo de acionamento	fofo GGG20	01
14	Biela	fofo GGG20	01
15	Semi eixo intermediário	fofo GGG20	01
16	Semi eixo final	fofo GGG20	01
17	Rolamento 7201A CC ZZ	Comp. Comercial	02
18	Flange de monategm do rolamento	Aço ANBT 1010	01





Compressor de ar compacto

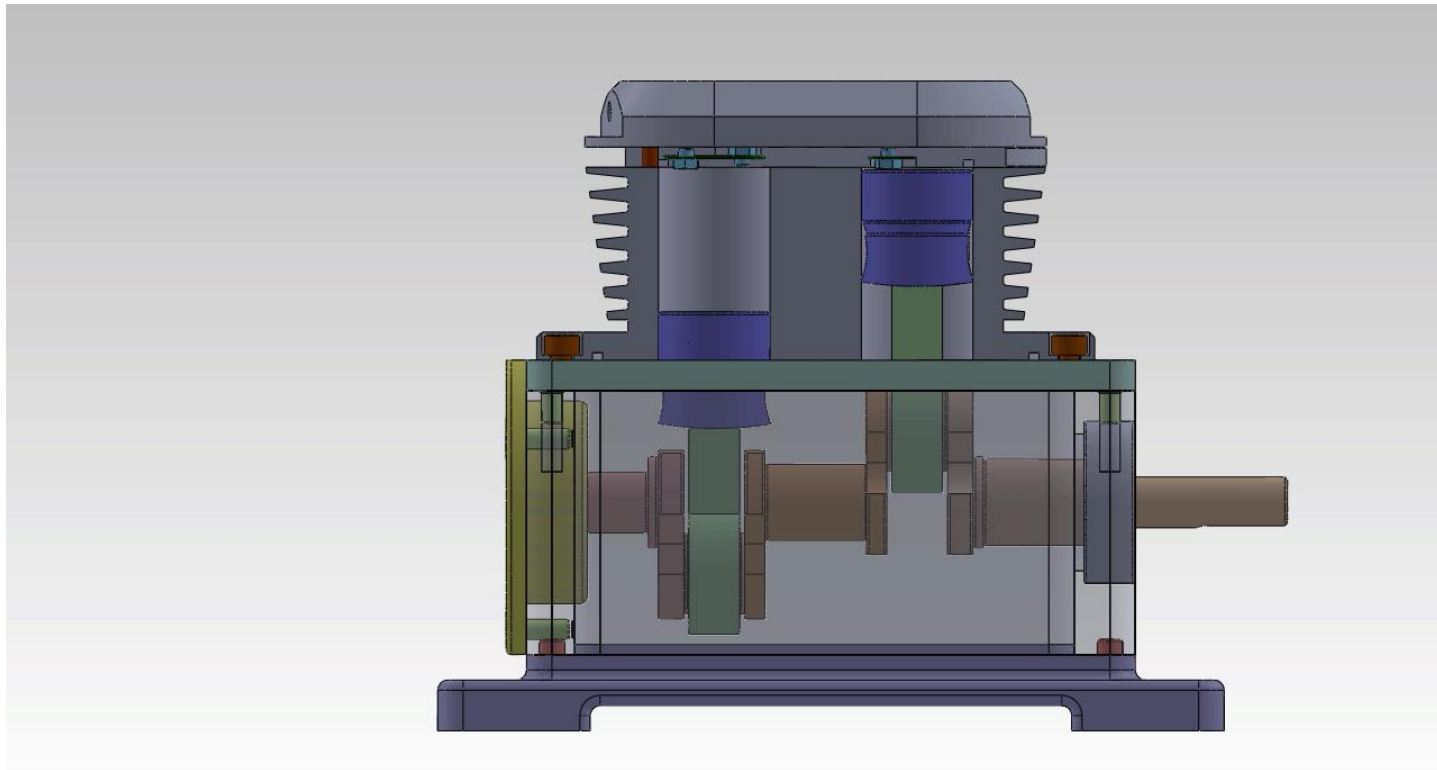
Funcionamento





Compressores de ar compacto

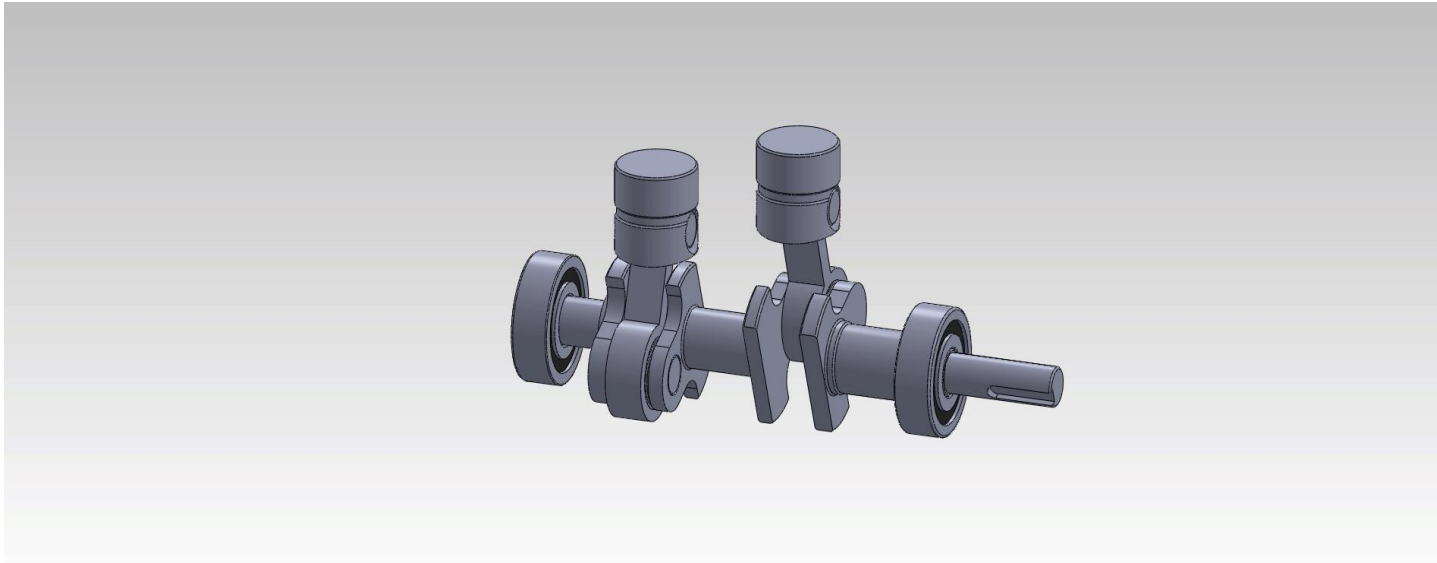
Funcionamento





Compressor de ar compacto

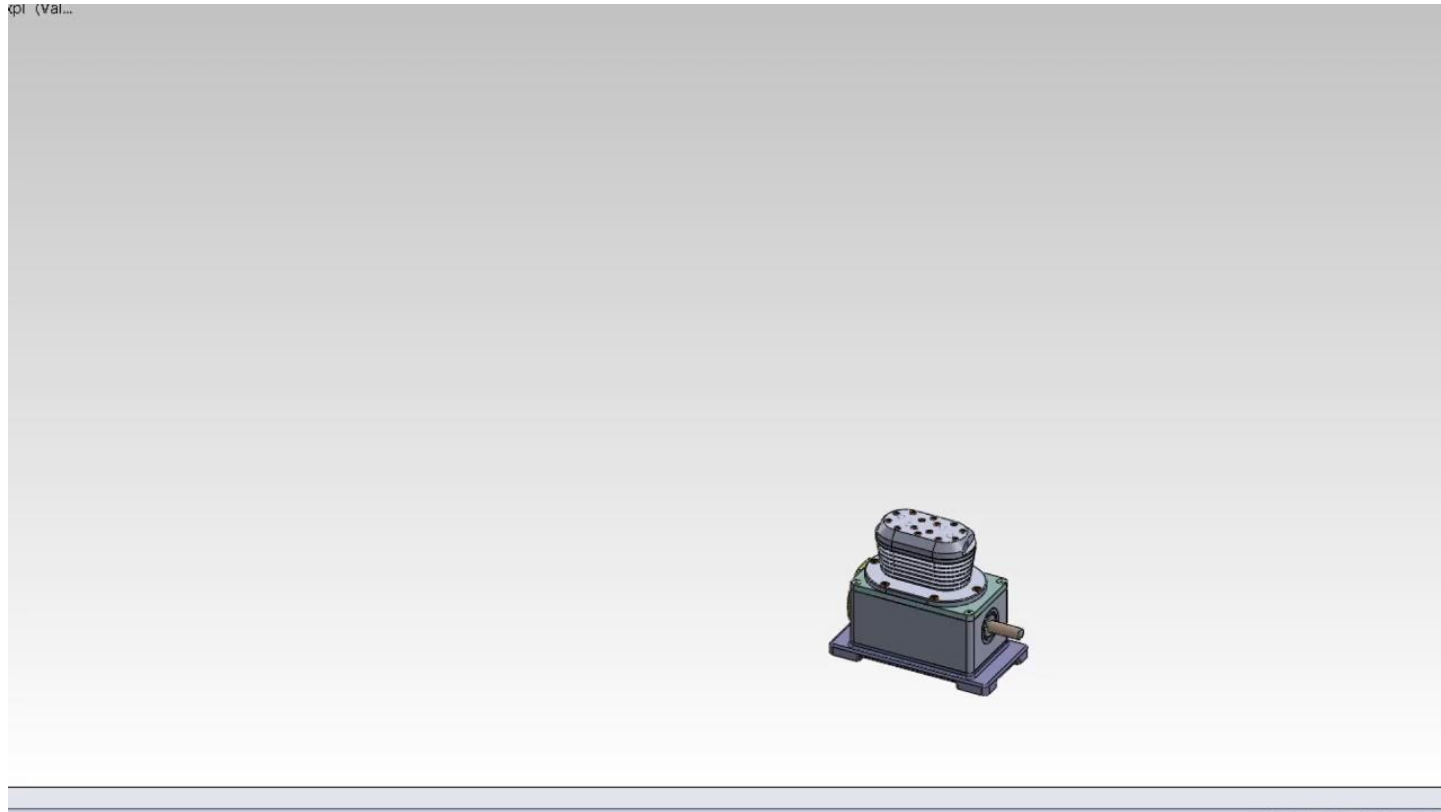
Funcionamento – Mecanismo biela/manivela





Compressor de ar compacto

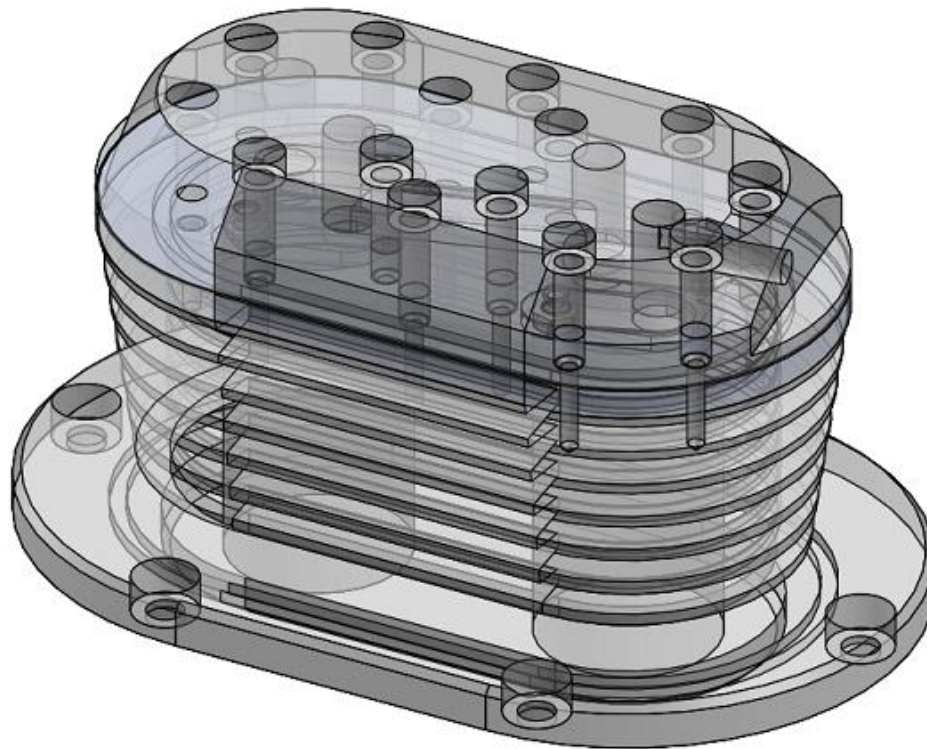
Funcionamento – Desmontagem





Compressor de ar compacto

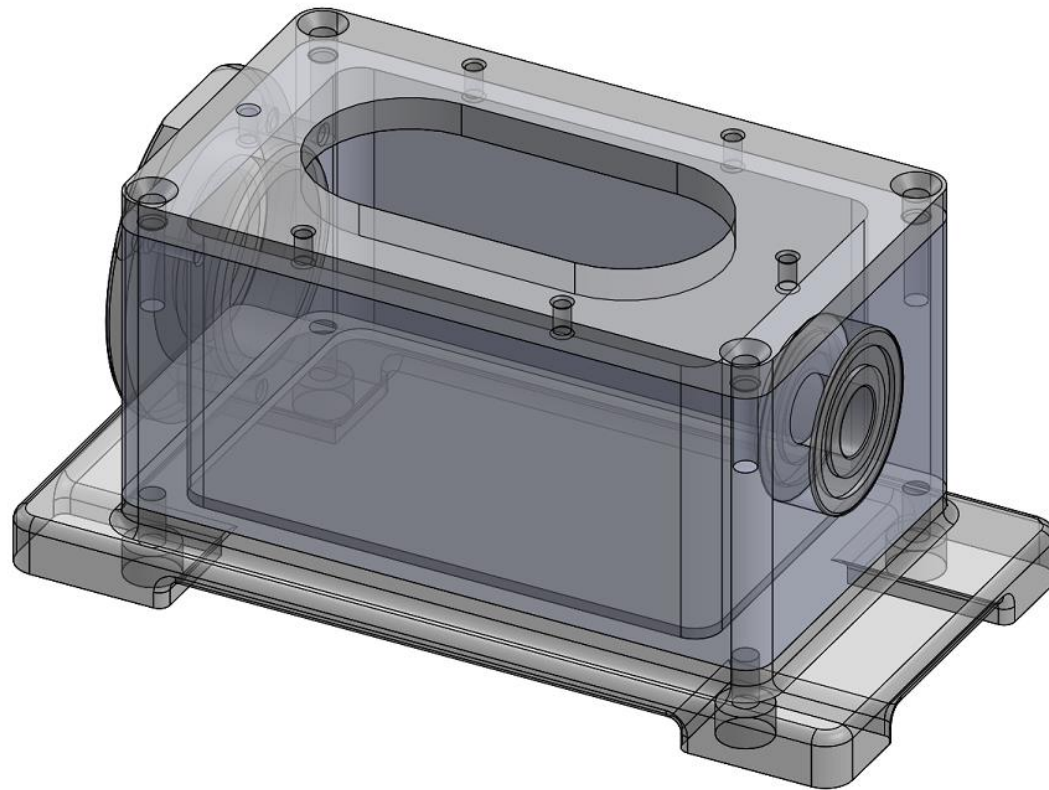
Detalhe do conjunto camisa/cabeçote





Compressor de ar compacto

Detalhe do conjunto carcaça/base/tampa superior

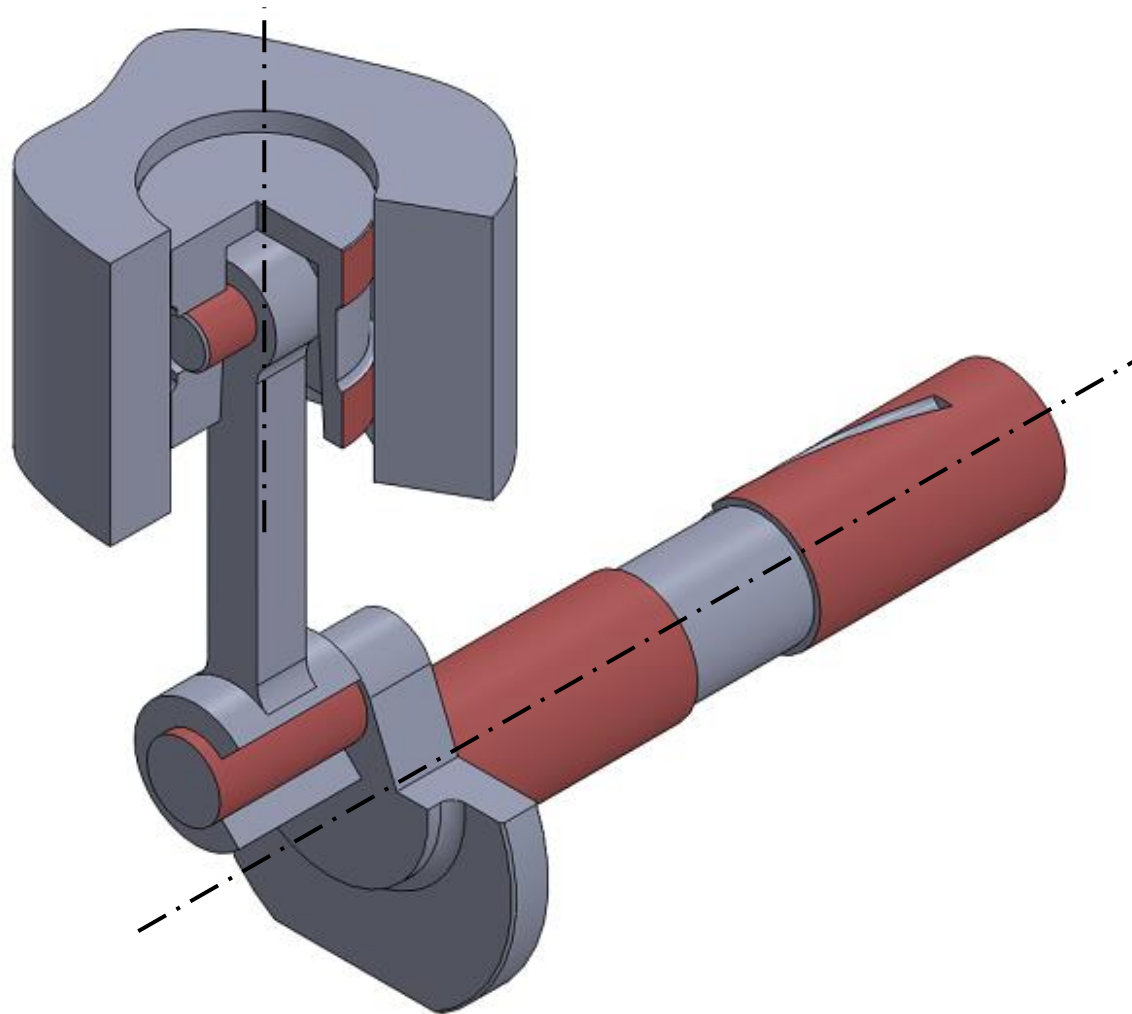


Compressor de ar compacto

Questionário dirigido









<https://www.youtube.com/watch?v=rM6diIJVxcs>

<https://www.youtube.com/watch?v=w7J9cE1VLj0>



FIM