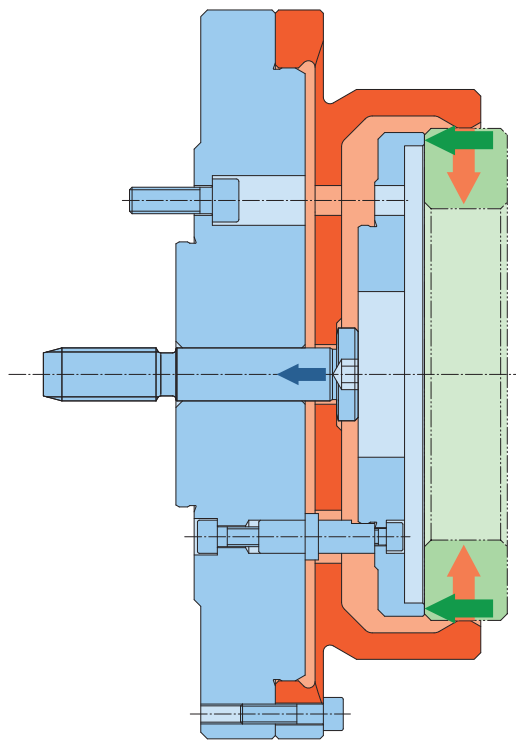


Clamping principles for customized Clamping Chucks

Segmented Diaphragm Clamping Chucks and Unslotted Diaphragm Clamping Chucks



Segmented Diaphragm Clamping Chuck

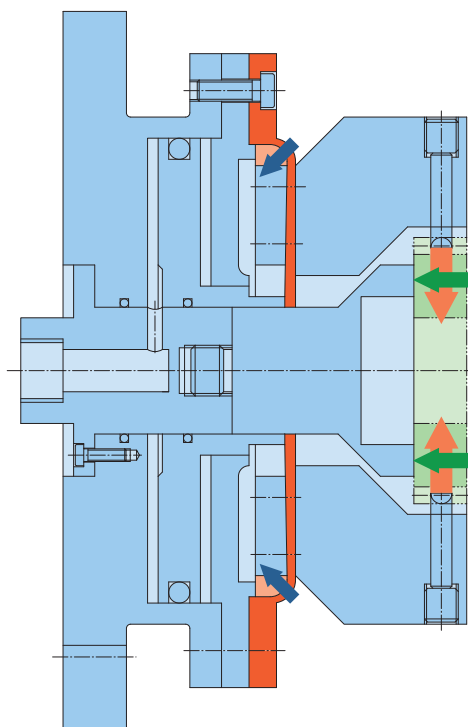
Key:

➡ Axial actuating force ⬇ Radial clamping force ➡ Axial pull-back force

42-1

Features Segmented Diaphragm Clamping Chucks

- For clamping diameters from 160 mm to 1 600 mm
- True running accuracy $\leq 0,01$ mm up to clamping diameter of 500 mm
- Very high repeating accuracy $\leq 0,005$ mm
- Permissible component tolerance up to IT13
- Short clamping fixture length
- Short clamping length
- Extended insertion depth
- Pull-back possible
- For thin-walled or solid components
- Hand clamping optional possible
- Virtually wear-free due to elastic deformation during the clamping process. Thus guarantees very long service life
- Clamping with intrinsic spring force is also possible
- Maximum possible rigidity of the entire machine-tool/clamping-fixture system due to the short clamping fixture length
- Suitable especially for turbine stage clamping



Unslotted Diaphragm Clamping Chuck

Key:

➡ Axial actuating force ⬇ Radial clamping force ➡ Axial pull-back force

42-2

Features Unslotted Diaphragm Clamping Chucks

- For clamping diameters from 20 mm to 250 mm
- True running accuracy $\leq 0,01$ mm
- Maximum repeating accuracy $\leq 0,003$ mm
- Permissible component tolerance up to IT7
- Short clamping length
- Extended insertion depth
- Pull-back possible
- Virtually wear-free due to elastic deformation during the clamping process. Thus guarantees very long service life
- Clamping with intrinsic spring force is also possible
- Maximum possible rigidity of the entire machine-tool/clamping-fixture system due to the short clamping fixture length
- Suitable especially for gear wheel clamping in pitch line

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