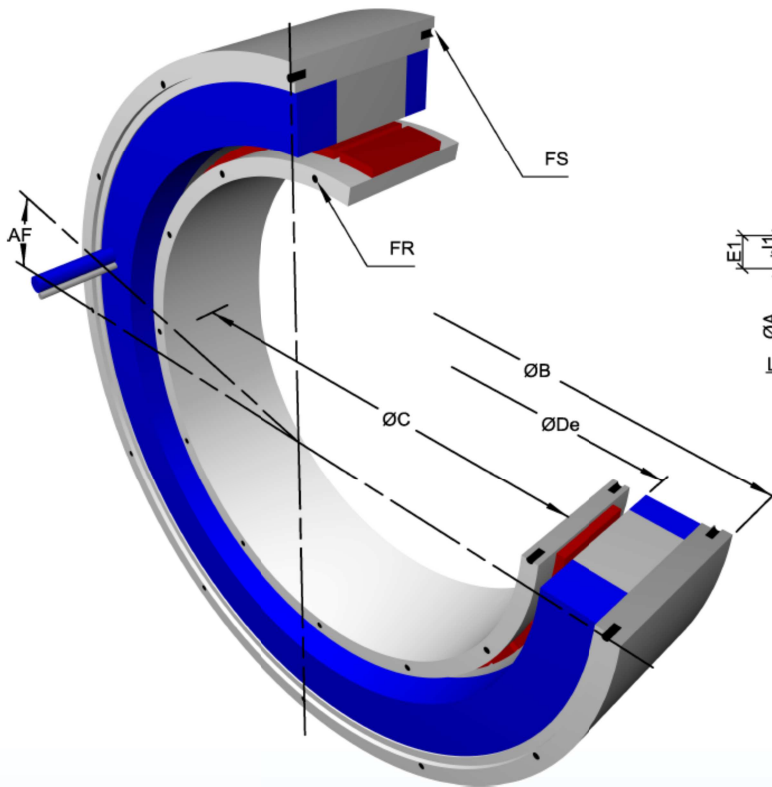
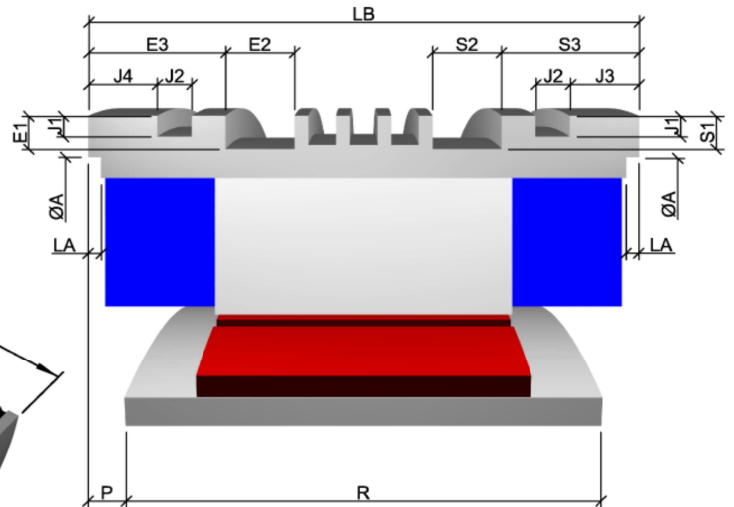


Natural convection



Fluid cooling



DIMENSIONS FOR ALL 145 STK

| | | |
|--|---------|---------------|
| Housing internal centering diameter | A H8 | 130 |
| Angle wire output / tapped holes | AF | 22°30' |
| Housing external centering diameter (fluid cooling) | B f8 | 153 |
| Housing external centering diameter (natural convection) | B f8 | 145 |
| Rotoric internal centering diameter | C H7 | 56 |
| Housing internal diameter | De | 78.5 |
| Depth of fluid front input / output groove | E1 | 4 |
| Width of fluid front input / output groove | E2 | 13.35 |
| Position of fluid front I/O groove | E3 | 16.3 |
| Rotoric fixation holes | FR | 8xM5 sur Ø63 |
| Housing fixation holes | FS | 8xM5 sur Ø136 |
| O-ring groove depth | J1 | 2.3 |
| O-ring groove width | J2 | 4 |
| Position of rear o-ring groove | J3 | 3 |
| Position of front o-ring groove | J4 | 10.8 |
| Depth of housing internal centering diameter | LA | 2 |
| Alignment rotor / housing | P ± 0.1 | 20.5 |
| Maximum rotoric contact diameter | Pmax | 75 |
| Depth of fluid rear I/O groove | S1 | 4 |
| Width of fluid rear I/O groove | S2 | 13.35 |
| Position of fluid rear I/O groove | S3 | 8.5 |

DIMENSIONS ACCORDING TO SIZE

| | 145STK1M | 145STK2M | 145STK3M | 145STK4M | 145STK5M | 145STK6M | 145STK7M | 145STK8M | |
|----------------|----------|----------|----------|----------|----------|----------|----------|----------|-----|
| Housing length | LB±0.15 | 92 | 119 | 146 | 173 | 200 | 227 | 254 | 281 |
| Rotor length | R +0.15 | 59 | 86 | 113 | 140 | 167 | 194 | 221 | 248 |

INTEGRATION:

- ✓ The cables are made of PU, class 6, foreseen for cable-bearing chains, 2 mt standard length, copper square section according rated current.
- ✓ Rotor / housing alignment (P) has to be executed within +/- 0.1 mm. Optionally, we can supply a mounting tool for achieving that alignment in case of assembly without possibility of accurate alignment.
- ✓ Thermal devices cable consists of 2 shielded pairs 2x2x0.25mm² section, 7 mm max external diameter.
- ✓ (De) represents:
 - 1- The maximum diameter passing inside the housing.
 - 2- The minimum diameter necessary for rotor assembly.
- ✓ (Pmax) diameter for pieces in contact with the rotor must never be exceeded.
- ✓ Tapped holes on each side of rotor and housing are angularly aligned.
- ✓ Cable positioning (AF) is theoretical. Leave a free room with a +/- 10 arc degrees tolerance around that position, on a 50 mm height from the housing side, for avoiding to stress the cables at the motor output.
- Do not tighten, twist or bend the power cable on the first 50 mm from motor side. Clamp the cable after those 50 mm.
- ✓ When designing the assembly, take care to insure a perfect contact between housing and user's bore for avoiding thermal problems.
- ✓ For housing mounting, use either external centering diameter (B) or internal centering diameters (A).
- ✓ For execution tolerances (perpendicularity, concentricity...), please consult us.
- ✓ Fluid input and output pipes have to be placed at the opposite of wire outputs on the same axial plane.
- ✓ O-ring grooves designed for 3 mm diameter o-rings.

A full integration handbook can be supplied to our customers upon request

For further information or specific request about our motors, feel free to contact us.