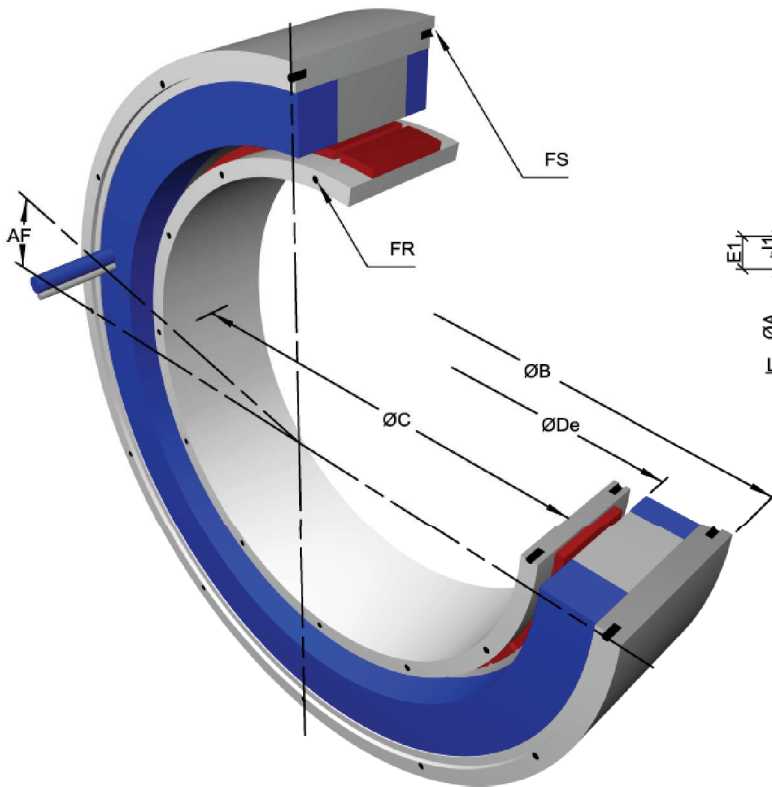
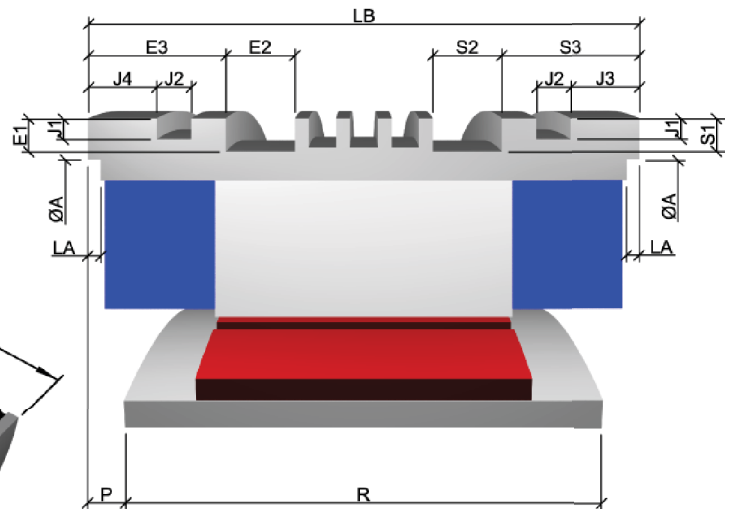


## Natural convection



## 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 2x2x0.25mm<sup>2</sup> 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.