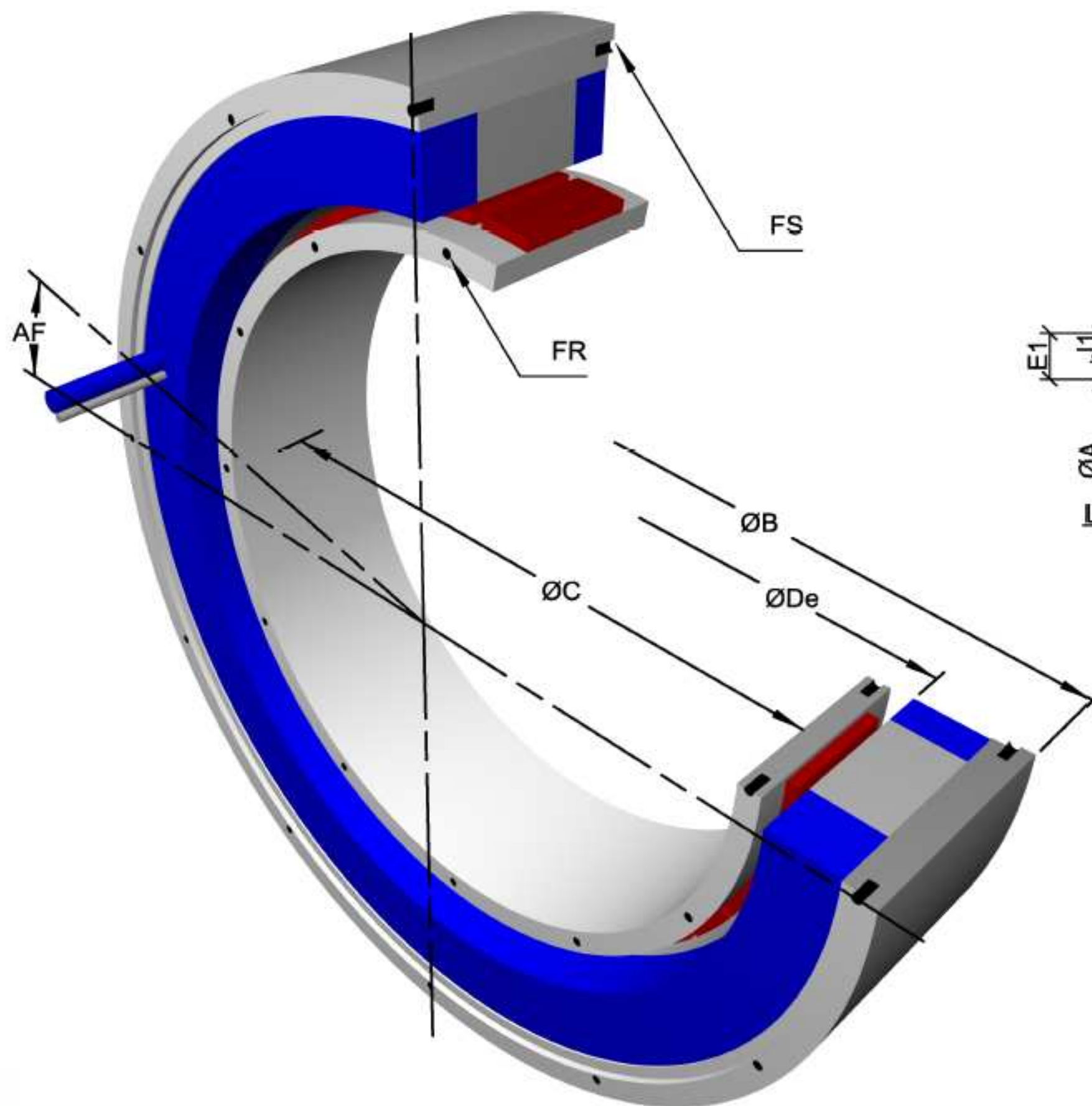
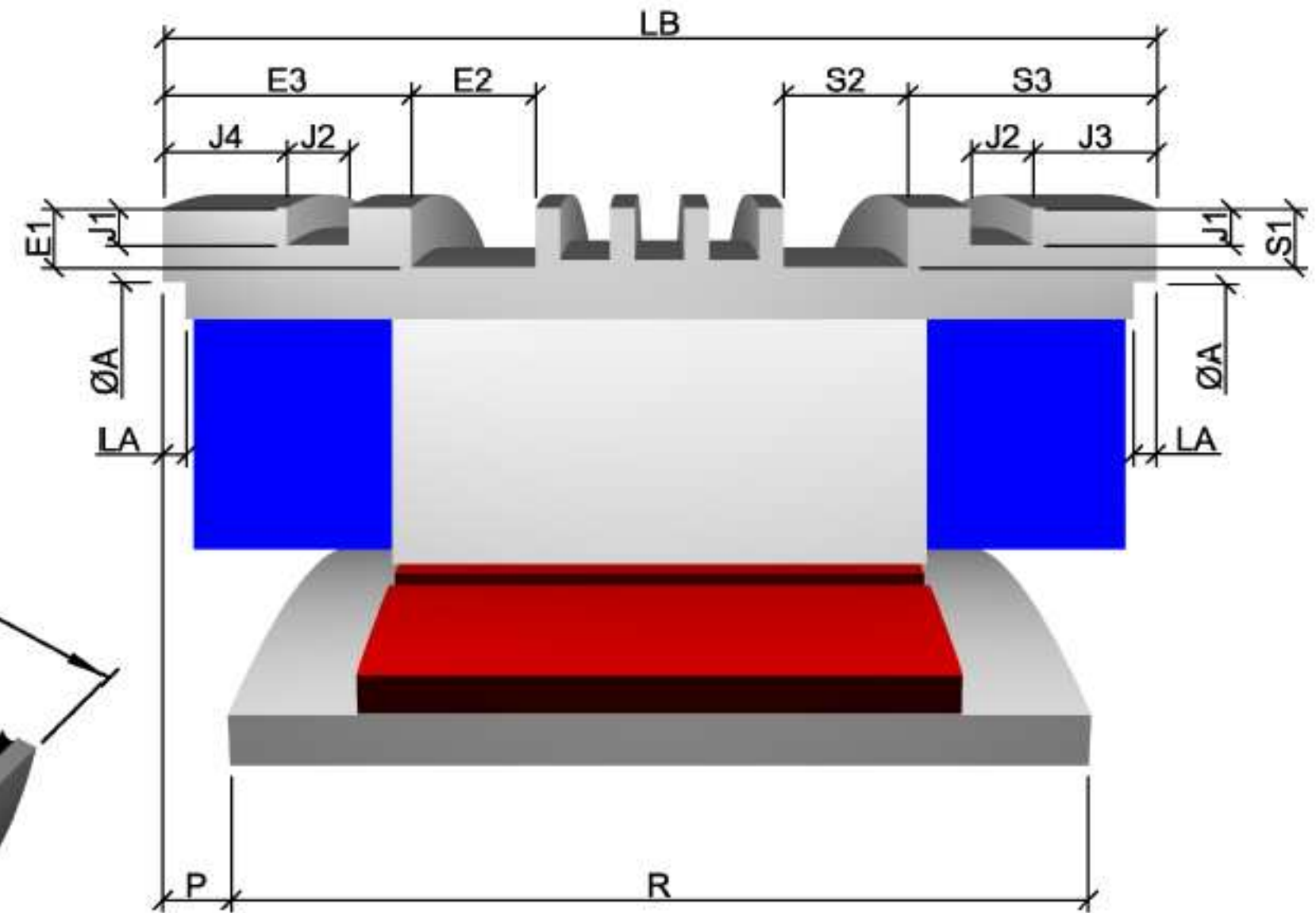


# MOTORS 145 STK

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.