

Technical Data Sheet
Gearbox
SHAFT MOUNTED



MODEL	FA42	
Ø OUTPUT SHAFT	30	mm
APPROXIMATE RATIO	8	
EXACT RATIO	8.38	
OUTPUT SPEED	183	RPM
EXACT OUTPUT SPEED	174	RPM
INPUT POWER	1.50	KW
INPUT ROTATION	1400	RPM
INPUT PAM	90B5	
OUTPUT TORQUE	82.31	N.m
NOMINAL TORQUE	225.00	N.m
NOMINAL POWER	4.1	KW
SERVICE FACTOR	2.73	
DYNAMIC EFFICIENCY	0.96	



Oil Quantity (L)

B3/H1	B6/H4	B7/H3	B8/H2	V5/H5	V6/H6
1.15	0.7	0.7	0.7	1.2	0.8

Radial and Axial Loads



n_2 [min-1]	FA [N]	FR [N]
300	300	1500
200	350	1750
120	410	2050
15	800	4000

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Gearbox weight peso riduttore	9.0 kg
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On request
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Technical drawing of a mechanical part showing two views: a side view and a front view.

Side View (Left):

- Top horizontal dimension: 32
- Horizontal dimension below 32: 36
- Horizontal dimension below 36: c1
- Vertical dimension on the left: b1 f7
- Vertical dimension below b1 f7: -0.005 -0.020
- Horizontal dimension below -0.005 -0.020: ø30
- Horizontal dimension at the bottom left: 28
- Horizontal dimension at the bottom left: f1
- Horizontal dimension at the bottom: 170

Front View (Right):

- Horizontal dimension on the left: 36
- Horizontal dimension on the right: 110
- Horizontal dimension at the bottom: k1

The technical drawing illustrates the B7000-10000 series ball bearing unit from two perspectives:

- Front View (Top):** Shows the overall profile of the unit. Key dimensions include a total width of 149 mm, a mounting plate thickness of 5 mm, and a distance of 86 mm between the centerlines of the shaft and the housing bore.
- Side View (Bottom):** Provides a cross-sectional view of the assembly. It shows the outer diameter of both the shaft and the housing as $\varnothing 30\text{ H7}$. The internal components are dimensioned with a 35 mm gap between the shaft and the inner ring, another 35 mm gap between the inner ring and the outer ring, and a total length of 134.5 mm for the bearing assembly.