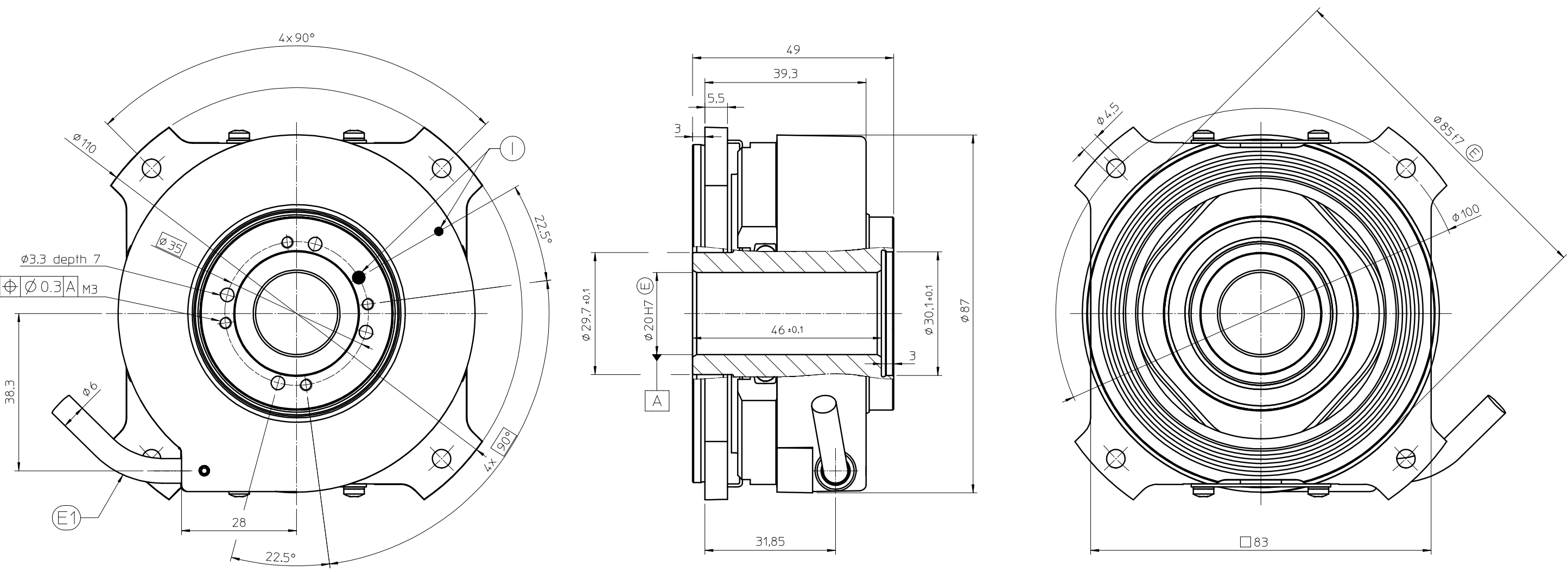
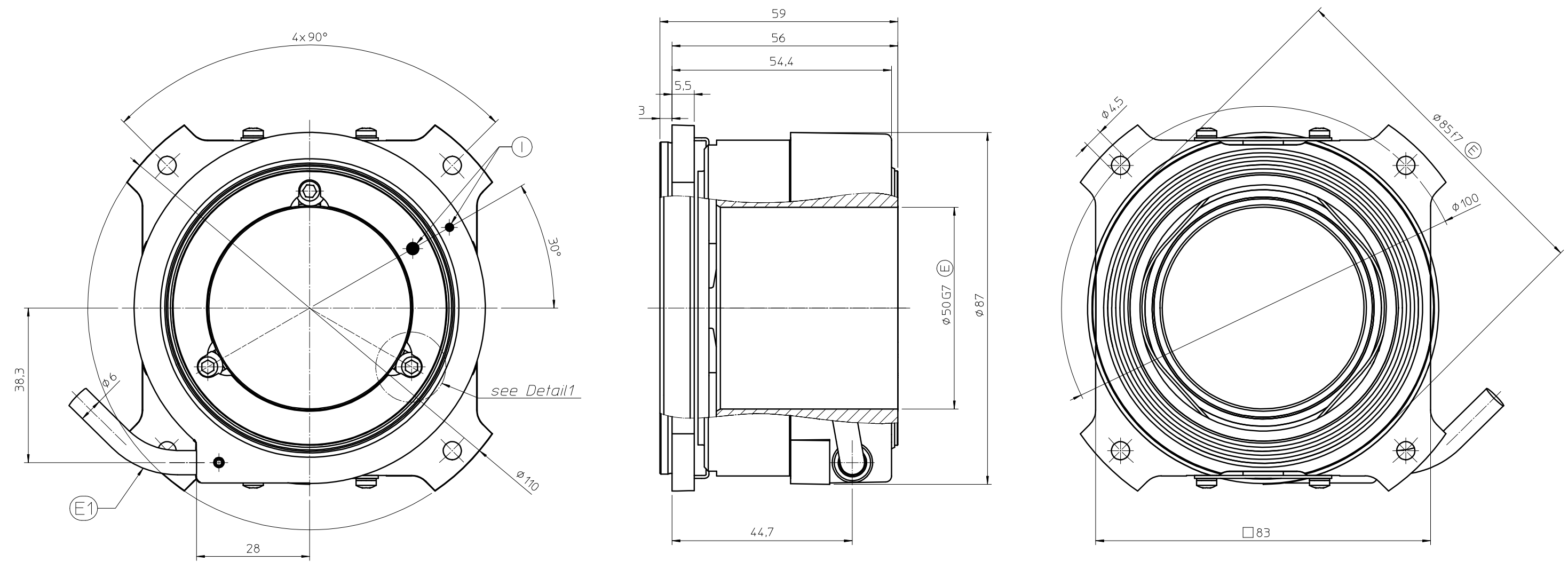


DIMENSIONS OF THE ENCODER

HOLLOW SHAFT 20mm MODEL

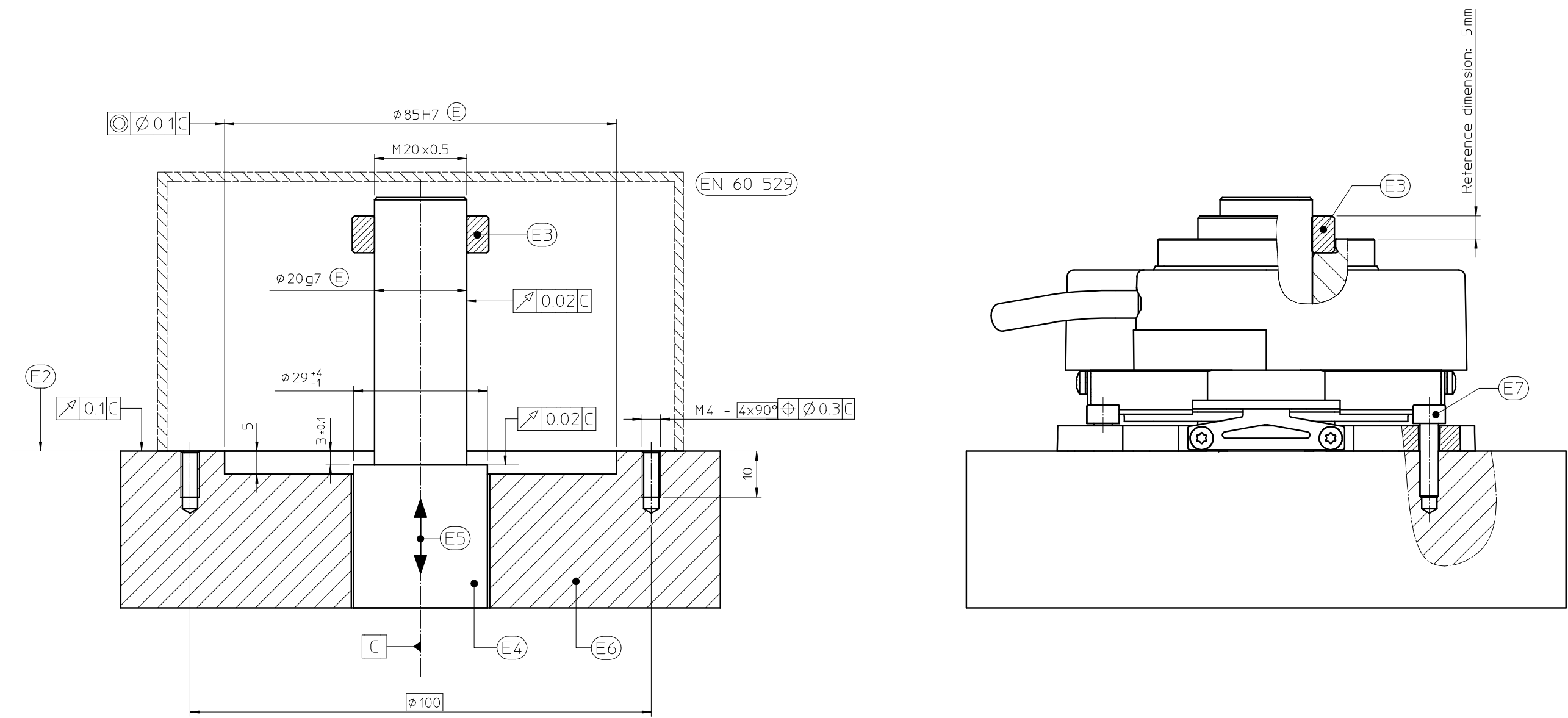


HOLLOW SHAFT 50mm MODEL

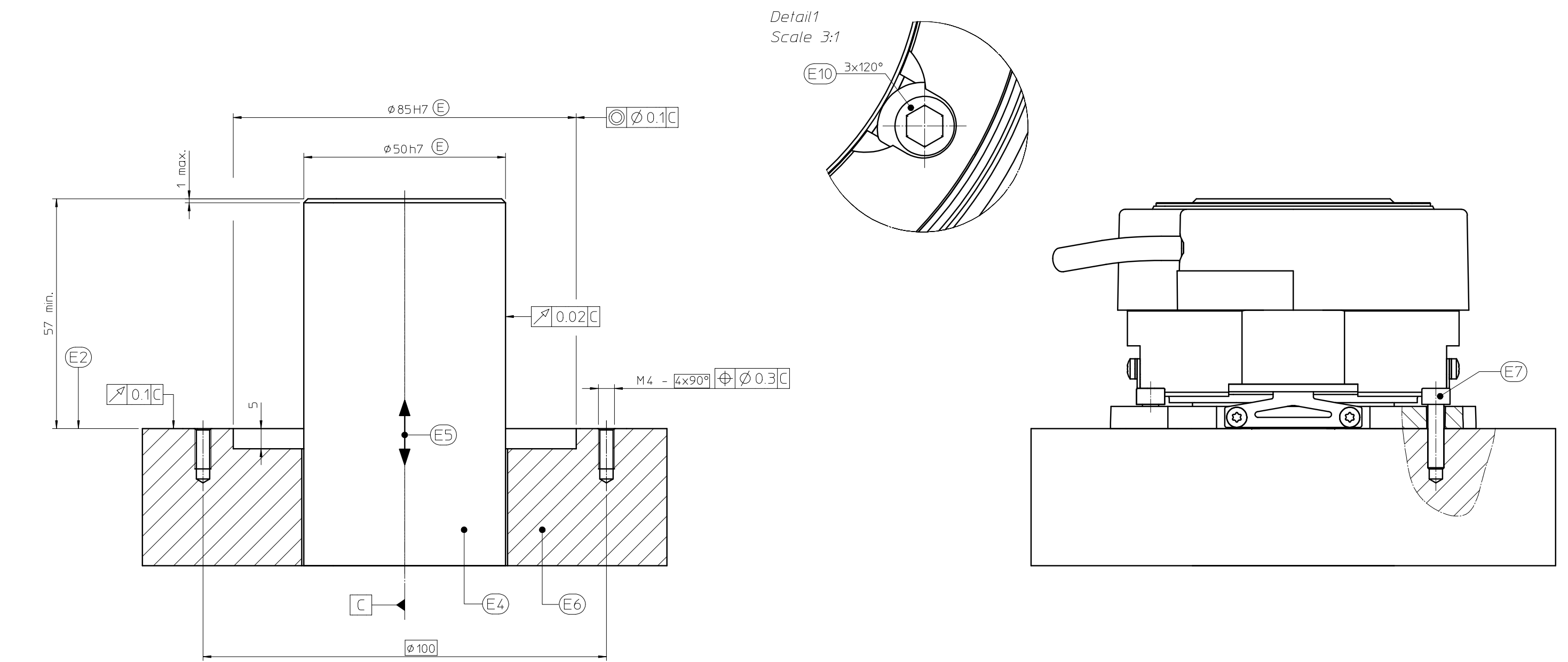


ENCODER MOUNTING OPTIONS

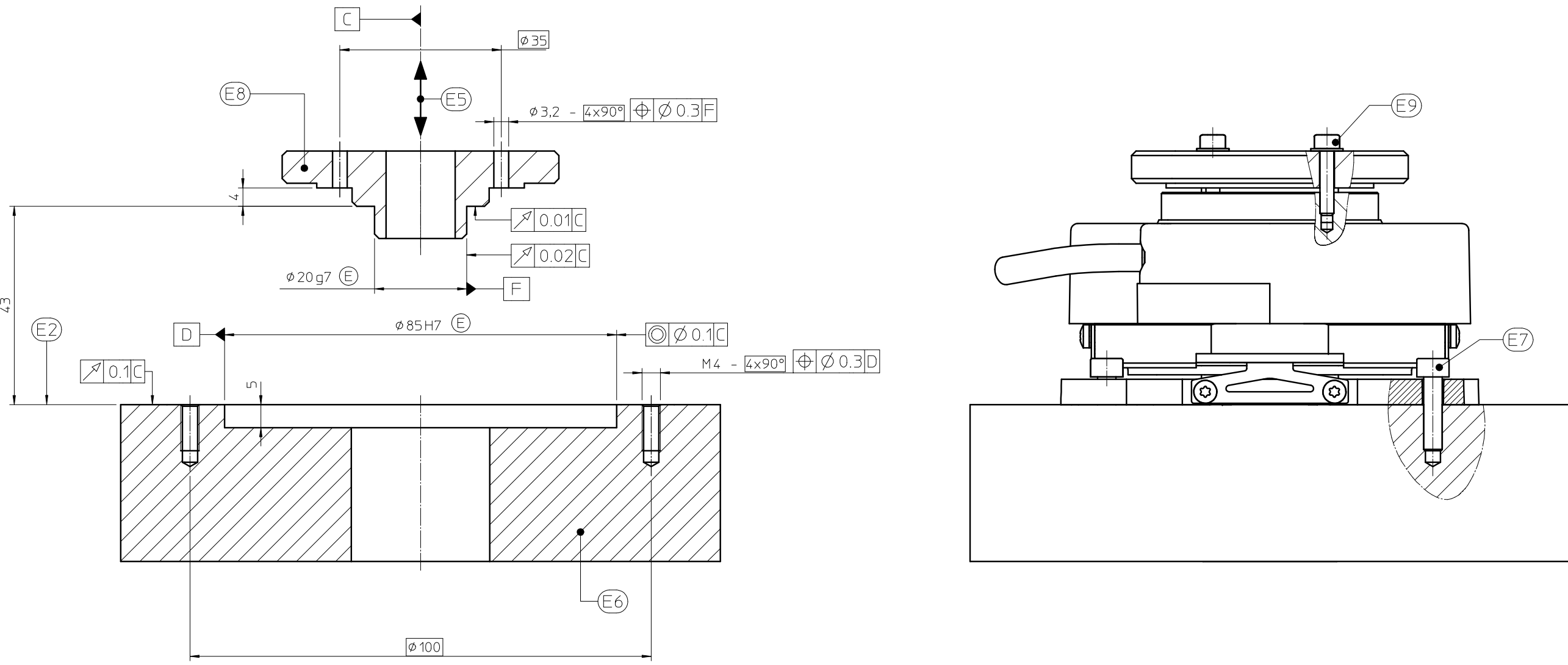
SHAFT COUPLING WITH RING NUT



SHAFT COUPLING WITH THE 3 CAMS OF THE ENCODER



ALTERNATIVE MOUNTING OPTION: FRONT END SHAFT COUPLING



ABBREVIATIONS

- [C] = Bearing of mating shaft
- [M] = Assembly sizing set by customer
- [1] = 0° position index $\pm 15^\circ$
- [R] = Direction of shaft rotating for output signals is described in interface description
- [E1] = Minimum bending radius:
- Rigid mounting with clamps: $R \geq 24\text{mm}$
- Common bending: $R \geq 60\text{mm}$
- [E2] = Mounting surface
- [E3] = ID: 82620150 / $P_a = 30 \pm 3\text{ Nm}$
Materially bonding anti-rotation lock necessary
fix mating shaft when mounted
- [E4] = Material of mating shaft: steel
Without mechanical fault exclusion: $R_{0.02} \geq 370\text{N/mm}^2$
- [E5] = Maximum permissible motion of motor shaft: $\pm 0.1\text{mm}$
- [E6] = Material of mating housing, steel: $R_{0.02} \geq 370\text{N/mm}^2$
- [E7] = Hexagon socket head cap screws M4 / $P_a = 2.5 \pm 0.15\text{ Nm}$
Screw: DIN912
Screw property class: INOX A2
Washer: DIN433-4-200HV
Materially bonding anti-rotation lock necessary
- [E8] = Rotor, material: steel
Without mechanical fault exclusion: $R_{0.02} \geq 370\text{N/mm}^2$
- [E9] = Hexagon socket head cap screws M3 / $P_a = 1.25 \pm 0.1\text{ Nm}$
Screw: DIN912
Screw property class: 8.8
Washer: DIN433-3-200HV
Materially bonding anti-rotation lock necessary
- [E10] = Hexagon socket cams / $P_a = 2.5\text{ Nm} \pm 0.5\text{ Nm}$
- [E4][E6][E8] = Coefficient of thermal expansion: $(10 < \alpha < 16) \times 10^{-6} \text{ K}^{-1}$
- [N1] = Mounting surfaces and threads must be clean and free of grease
- P_a = Tightening torque

Summary				Propa.	App.	Date	Finish
ANGULAR ENCODER H2-D87 Flange Model							Treatment
Rev.	Designation	Quant.	Material				
Drawing N	PT-2-015-1	Date	06/2020				
Replaces		Design by	IMANOL				
		Check by	ZUNZU				

Scale: 1:1

Dimensions in mm

Tolerancing ISO 8015
ISO 2768 - m H
< 6 mm: $\pm 0.2\text{ mm}$

FAGOR Automation
S. Coop.
20500 Mondragón