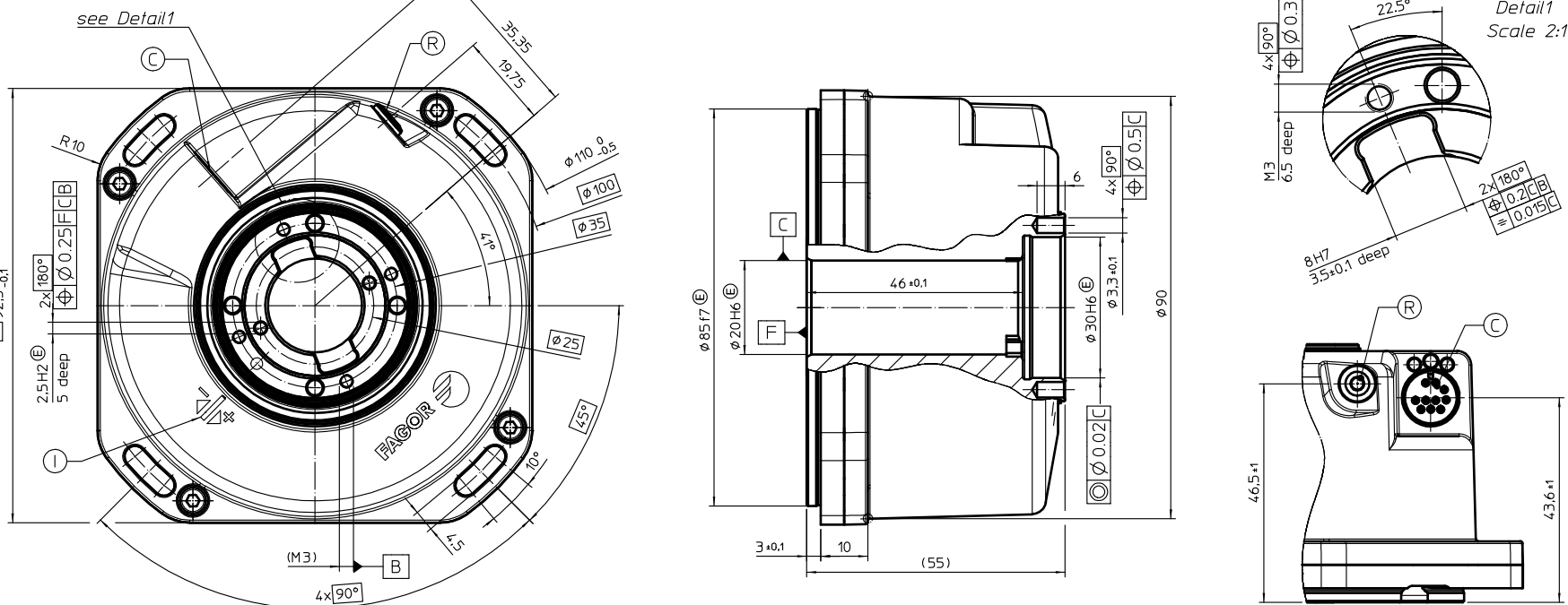
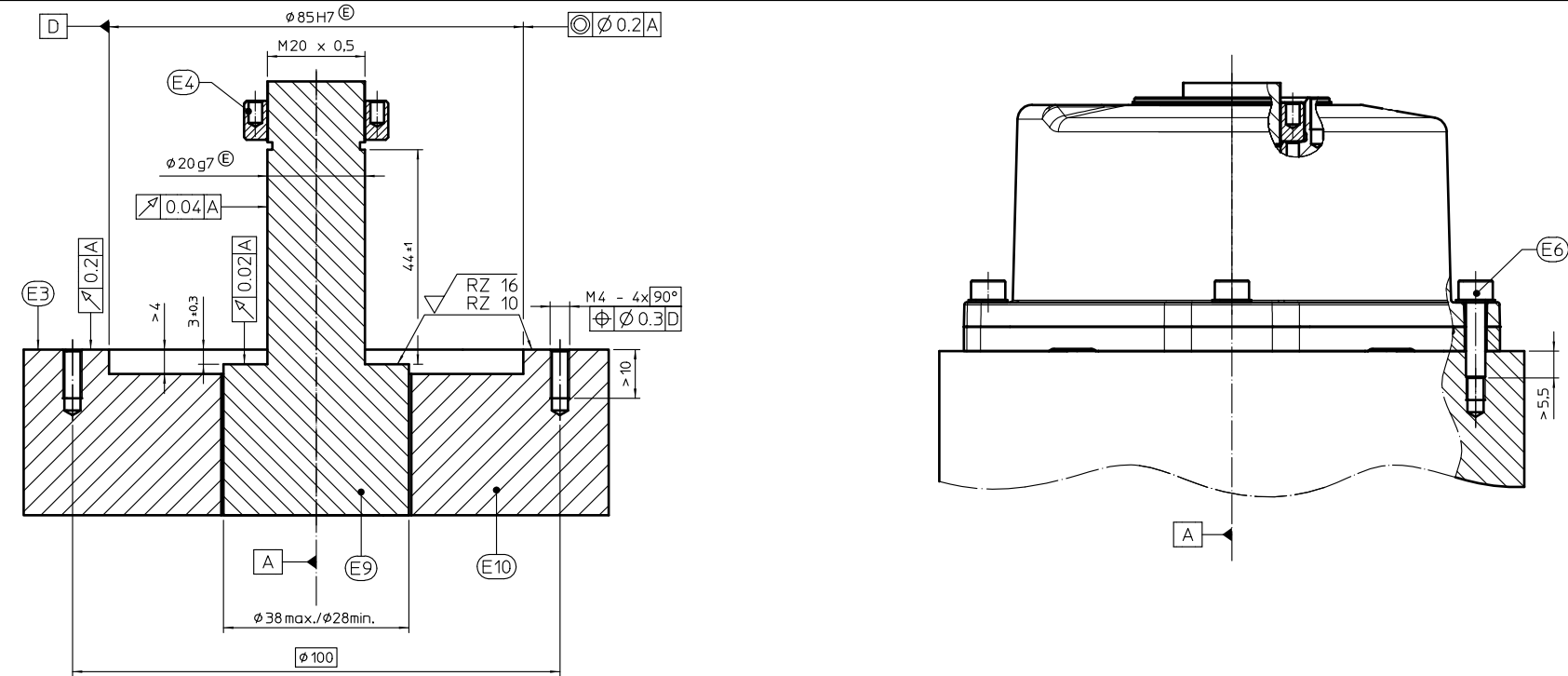


DIMENSIONS OF THE ENCODER

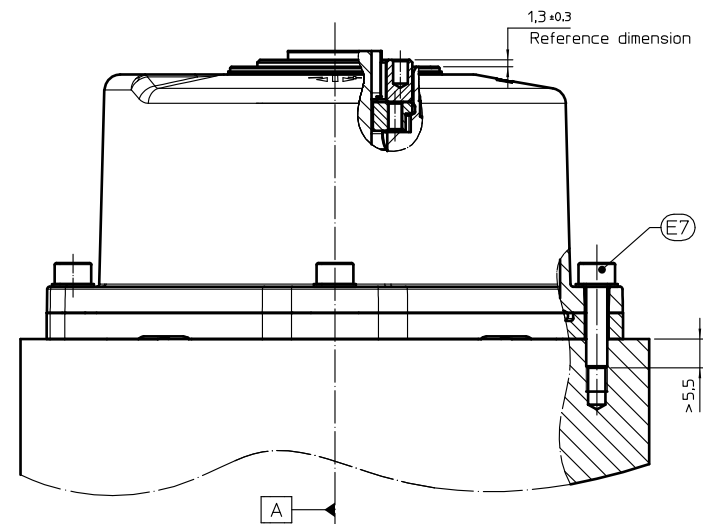
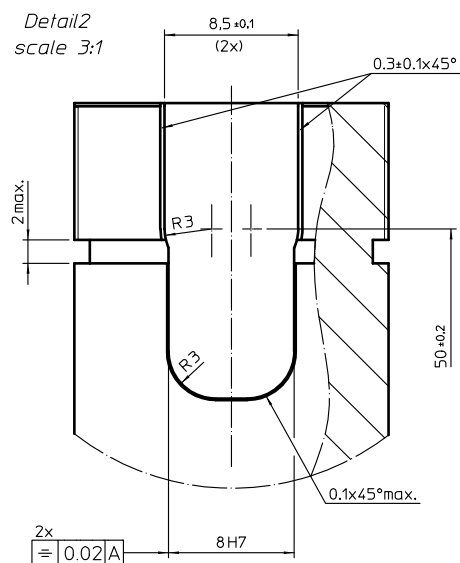
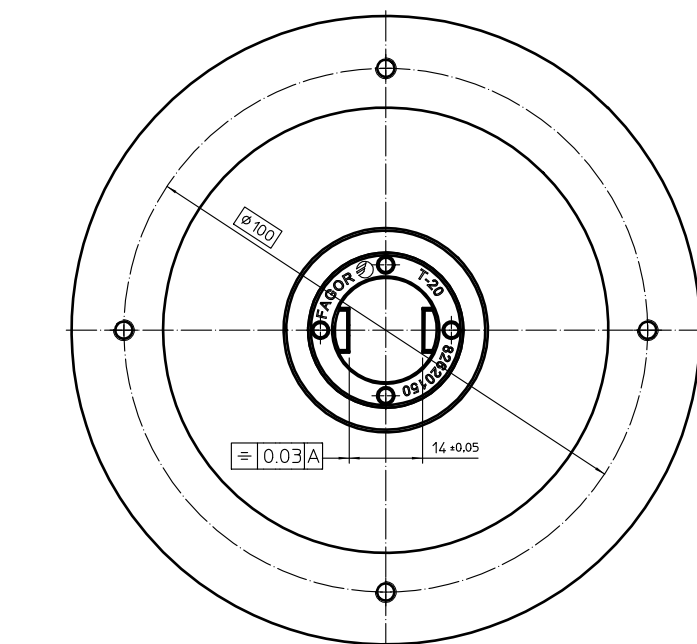
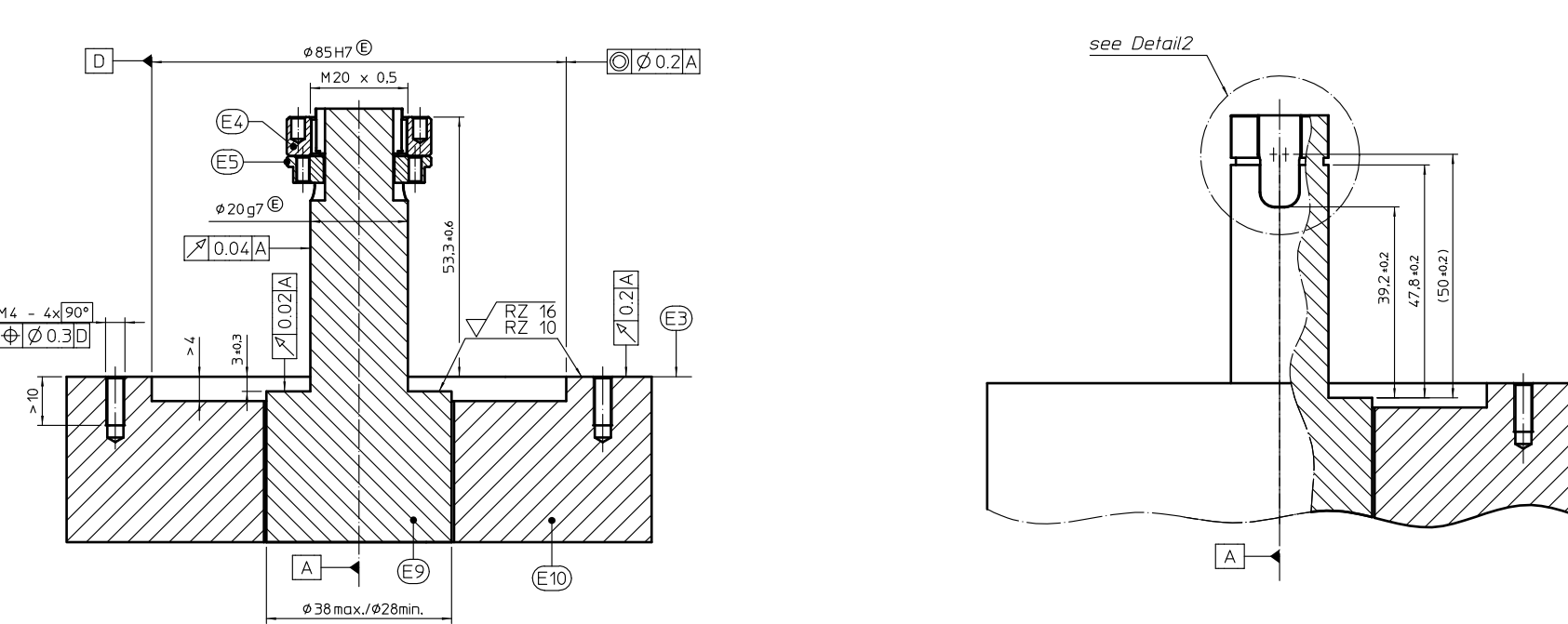


MOUNTING OPTION: SHAFT COUPLING

WITHOUT MECHANICAL FAULT EXCLUSION

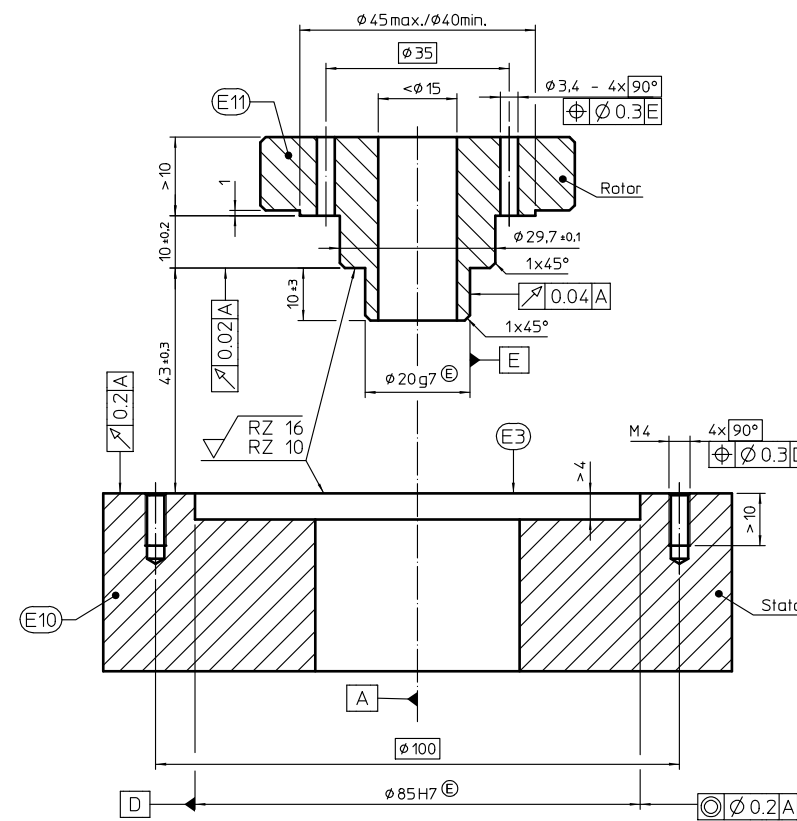


WITH MECHANICAL FAULT EXCLUSION

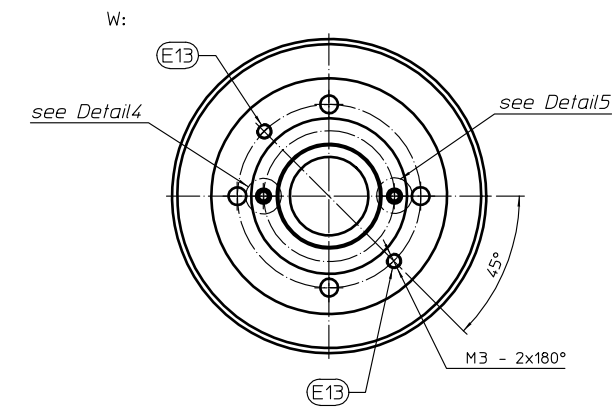
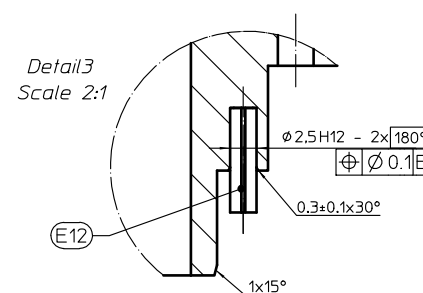
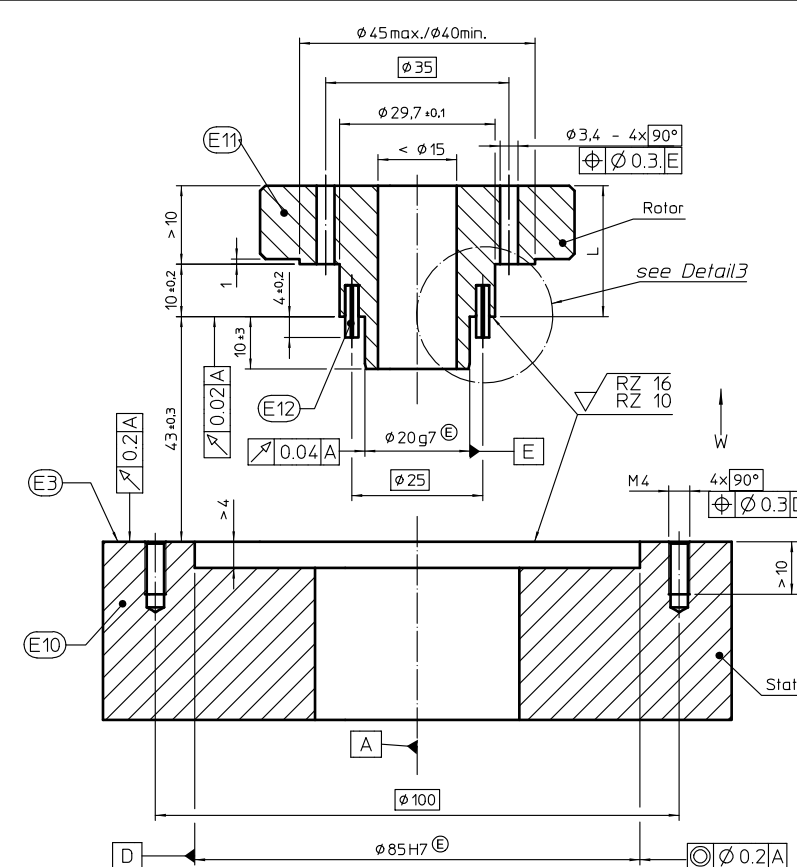


ALTERNATIVE MOUNTING OPTION: FRONT END SHAFT COUPLING

WITHOUT MECHANICAL FAULT EXCLUSION



WITH MECHANICAL FAULT EXCLUSION



DIFFERENT TYPES OF CONNECTOR CABLES

E1 - Three different types of cable:

- Cable Ø6mm.
- Cable Ø4mm.
- Cable Ø10.5mm (with protection).

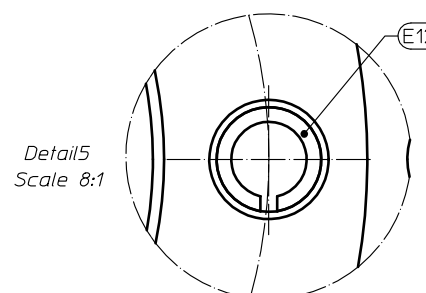
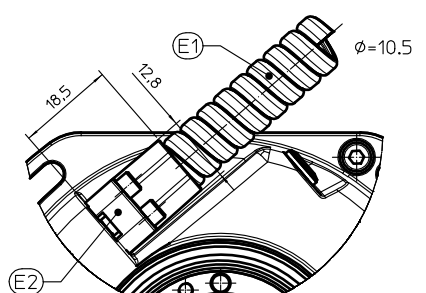
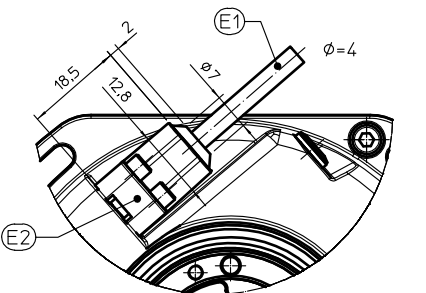
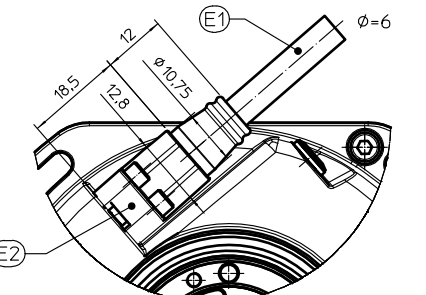
Bend radius for flexible configuration for:

- Cable Ø6mm: R>60mm.
- Cable Ø4mm: R>40mm.
- Cable Ø10.5mm: R>60mm.

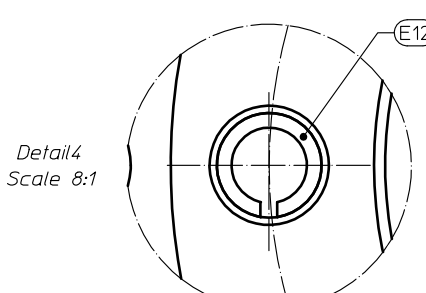
Bend radius for rigid configuration for:

- Cable Ø6mm: R>24mm.
- Cable Ø4mm: R>16mm.
- Cable Ø10.5mm: R>35mm.

E2 - Cable support.



BOTH SPRING-TYPE STRAIGHT PINS:
Mounting direction as shown or both spring-type straight pins rotated by 180° (mount slot in tangential direction). spring-type straight pin must be inserted burr-free a potential chipping has to be removed.



ABBREVIATIONS

A = Bearing of mating shaft.

M = Assembly sizing set by customer.

R = Compressed air intake.

C = Connector.

I = 0° position index ±5°.

↻ = Direction of shaft rotating for output signals is described in interface description.

E3 = Mounting surface.

E4 = ID: 82620150
Tightening torque of rig nut: 30Nm ±3Nm
Materially bonding anti-rotation lock necessary
fix mating shaft when mounted.

E5 = ID: 82620155
(Shaft coupling) Mechanical fault exclusion: washer using with ring nut (E4) necessary.

E6 = Hexagon socketed head cap screws M4: Pa=2.5±0.15Nm
Screw property class: INOX A2
Washer: DIN433-4-200HV
Materially bonding anti-rotation lock necessary.

E7 = Hexagon socketed head cap screws M4: Pa=2.9±0.15Nm
Screw: DIN912-M4x20
Screw property class: 8.8
Washer: DIN433-4-200HV
Materially bonding anti-rotation lock necessary.

E8 = Hexagon socketed head cap screws M3: Pa=1.25±0.1Nm
Screw: DIN912
Screw property class: 8.8
Washer: DIN433-3-200HV
Materially bonding anti-rotation lock necessary.

E9 = Material of MATING SHAFT: steel
Without mechanical fault exclusion: Rp0.2±370N/mm²
With mechanical fault exclusion: Rp0.2±500N/mm²
Rm±650N/mm²
Coefficient of thermal expansion: (10<α<16)×10⁻⁶ K⁻¹

E10 = Material of MATING HOUSING: steel, Rp0.2±370N/mm²
Coefficient of thermal expansion: (10<α<16)×10⁻⁶ K⁻¹

E11 = Material of ROTOR: steel
Without mechanical fault exclusion: Rp0.2±370N/mm²
With mechanical fault exclusion: Rp0.2±500N/mm²
Rm±650N/mm²
Coefficient of thermal expansion: (10<α<16)×10⁻⁶ K⁻¹

E12 = 2x spring type straight pin for mechanical fault exclusion necessary DIN1481-2.5x10.
Mounting sequence:

1. Mount spring-type straight pins in correct angular position (see detail 4 and 5) in part E11.
2. Mount part E11 using E8 screws.
3. Pay attention to reference dimension Z: L-9-Z±0.15

E13 = Using spring-type straight pins removing threads (M3) necessary, otherwise optional.

(N) = Mounting surfaces and threads must be clean and free of grease.

Pa = Tightening torque.

| Summary | | | | Propo. | App. | Date | Scale: 1:1 |
|-----------|------------------------------|-----------|----------|------------------|------|------|------------|
| Rev. | Designation | Quant. | Material | Finish | | | |
| 1 | ANGULAR ENCODER MODEL H2-D90 | 1 | | | | | |
| Drawing N | PT-2-010-2 | Date | 06/2020 | Fagor Automation | | | |
| Replaces | | Design by | AINARA | S. Coop. | | | |
| | | Check by | ZUNZU | 20500 Mondragón | | | |

