

RON 786/RON 886/RPN 886

- Integrated stator coupling
- Hollow through shaft $\text{Ø} 60 \text{ mm}$
- System accuracy $\pm 2''$ or $\pm 1''$



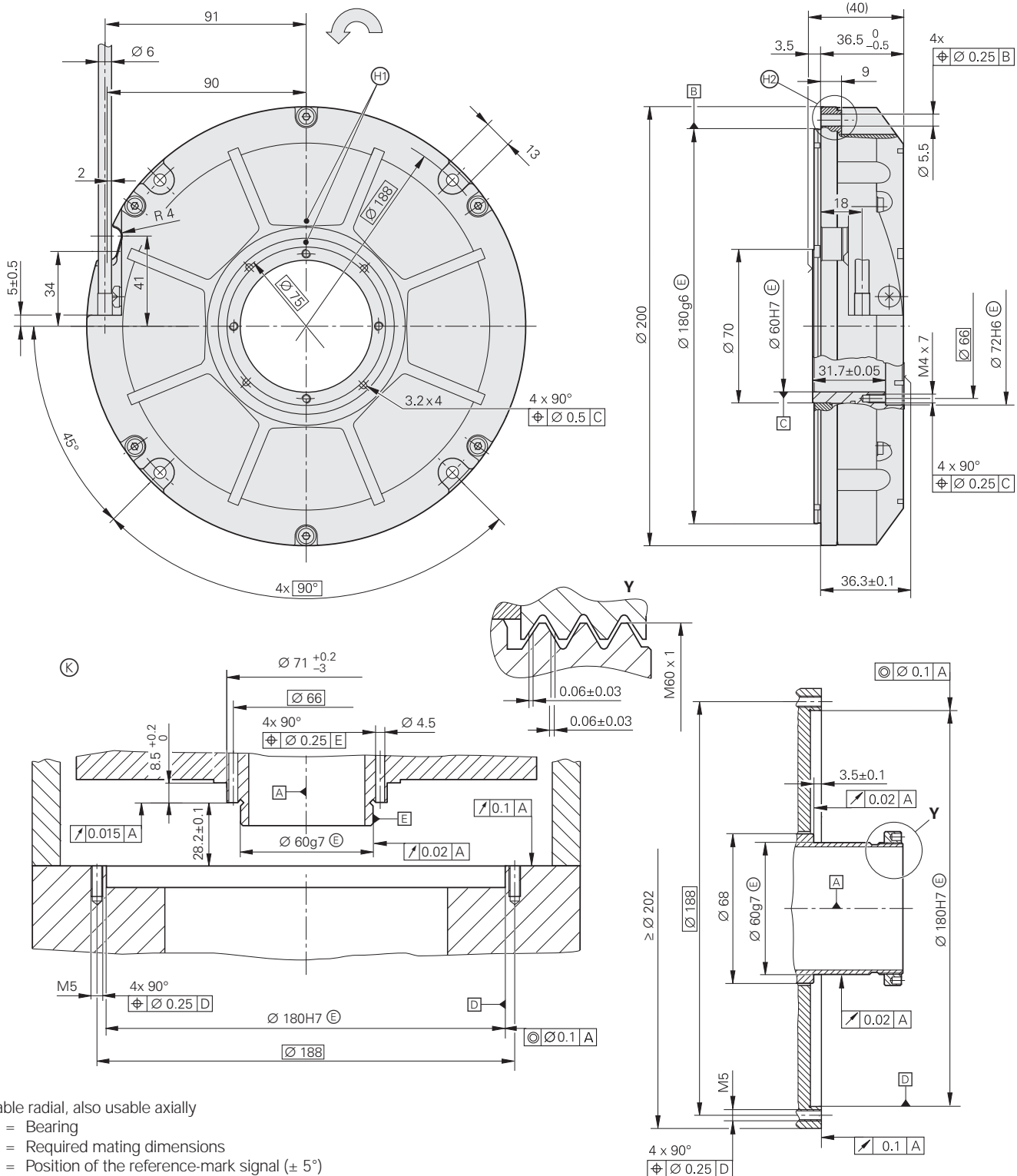
Dimensions in mm



Tolerancing ISO 8015

ISO 2768 - m H

< 6 mm: $\pm 0.2 \text{ mm}$



Cable radial, also usable axially


▣ = Bearing

⊕ = Required mating dimensions

⊕ = Position of the reference-mark signal ($\pm 5^\circ$)

⊕ = Shown rotated by 45°

↻ Direction of shaft rotation for output signals as per the interface description

	Incremental		
	RON 786	RON 886	RPN 886
Incremental signals	 1 V _{PP}		
Line count*	18 000 36 000	36 000	90 000 (≅ 180 000 signal periods)
Reference mark*	<i>RON x86</i> : One <i>RON x86 C</i> : Distance-coded		One
Cutoff frequency	-3 dB -6 dB	≥ 180 kHz	≥ 800 kHz ≥ 1 300 kHz
Recommended measuring step for position measurement	0.0001°	0.00005°	0.00001°
System accuracy	± 2"	± 1"	
Power supply Without load	5 V ± 10 %, max. 150 mA		5 V ± 10 %/max. 250 mA
Electrical connection*	Cable 1 m, with or without M23 coupling		
Max. cable length¹⁾	150 m		
Shaft	Hollow through shaft D = 60 mm		
Mech. perm. speed	≤ 1 000 min ⁻¹		
Starting torque	≤ 0.5 Nm at 20 °C		
Moment of inertia of rotor	1.2 · 10 ⁻³ kgm ²		
Natural frequency	≥ 1 000 Hz		≥ 500 Hz
Permissible axial motion of measured shaft	≤ ± 0.1 mm		
Vibration 55 to 2 000 Hz Shock 6 ms	≤ 100 m/s ² (EN 60068-2-6) ≤ 1 000 m/s ² (EN 60068-2-27)		≤ 50 m/s ² (EN 60068-2-6) ≤ 1 000 m/s ² (EN 60068-2-27)
Operating temperature	0 °C to 50 °C		
Protection EN 60529	IP 64		
Weight	Approx. 2.5 kg		

* Please select when ordering

¹⁾ With HEIDENHAIN cable

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