

ENCODER SELECTION GUIDE

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ROTARY ENCODERS	CROSS REFERENCE	NUMBER OF LINES* / RESOLUTION	ACCURACY (ARC. SEC)	SHAFT TYPE	OUTPUT SIGNALS
 A24HME1		250	± 260	Hollow shaft	
 A28		60 – 2.500	Up to 52	Solid shaft	
 A36 (including HME1)	Heidenhain ROD 1000 series	100-3.600	Up to 36	Solid / hollow shaft	
 AK36 (including HME1)		Up to 21 bit singleturn ----- Up to 40 bit multiturn	± 30	Solid / hollow shaft	SSI BiSS C
 A42M	Heidenhain ERO 1200 Series	1.000; 2.500	Up to 52	Hollow shaft	
 A75M		512; 2.048; 5.000	Up to 26	Hollow shaft	
 AK50	Hohner Series R	Up to 8 bit for turret tool holder	± 120	Solid shaft	
 A58 (including HE, HME, HE1)	Heidenhain ROD 400 Series, ERN 400 series	100-10.800	Up to 12	Solid/hollow/ blind shaft**	
 AK58 (including HME1)		Up to 20 bit singleturn ----- Up to 40 bit multiturn	± 30	Solid / hollow shaft	SSI BiSS C
 AP58		1 – 65.536 (pulses per revolution)	± 60	Solid / hollow shaft	
 A102H		5.000; 9.000	Up to 7	Hollow shaft	
 AM		16 – 1.024 for HTL / Up to 12 bit for SSI	± 1080	Solid shaft	

*others only on request. Possible interpolation factor up to x10. **depending on the model

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LINEAR ENCODERS	CROSS REFERENCE	MEASURING LENGTH (MM)	ACCURACY (μM/M)	OUTPUT SIGNALS
 L18	Heidenhain LS 300, 400, 800, 900 Series Fagor M Series RSF MSA 67 Series	70-2.040	± 10; ± 5; ± 3	~ 11 uApp ~ 1 Vpp □ TTL
 L18B	RSF MSA 67 Series	70-3.240	± 10; ± 5	~ 11 uApp ~ 1 Vpp □ TTL
 L18T	Heidenhain LS 400 Series Fagor SX, SY, SW, SP Series	70-1.240	± 10; ± 5	~ 11 uApp ~ 1 Vpp □ TTL
 L23		250-20.000	± 10; ± 5; ± 3	□ TTL
 LK24		70-3.240	± 5; ± 3	SSI BiSS C FANUC α DRIVE-CLiQ
 L35	RSF MSA 37, 39 Series	170-3.240	± 5; ± 3	~ 11 uApp ~ 1 Vpp □ TTL
 L35T	Heidenhain LS 500, 600, 700 Series RSF MSA 37, 39 Series	170-3.240	± 10; ± 5; ± 3	~ 11 uApp ~ 1 Vpp □ TTL
 L37	Heidenhain LS 100 Series	140-3.240	± 10; ± 5; ± 3	~ 11 uApp ~ 1 Vpp □ TTL
 L50	Heidenhain LB 300 Series	3.240-30.040	± 10	~ 11 uApp ~ 1 Vpp □ TTL
 MT		Up to 50.000	± 20	~ 1 Vpp □ TTL HTL
 MK		Up to 50.000	± 35	SSI BiSS C CANopen

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TAILOR MADE ENCODER KITS	CROSS REFERENCE	Resolution	Accuracy	SHAFT TYPE	TYPE	INTERFACE
 AR25	Netzer "DS25"	up to 20 Bit (absolute) any number from 1 to 802816 (TTL) 196 lines on disc (1Vpp)	±10" *	Hollow Shaft (Ø6H8)	Absolute / Incremental	BiSS C / SSi (absolute) TTL / 1Vpp
 AR34		22 Bit	±10" *	Hollow Shaft	Absolute	BiSS C / SSi
 AR42		Any number from 1 to 11 796 480	±10" *	Incremental	TTL
 AR79	MOOG FMC RESOLVER	22 Bit	±10" *	Hollow Shaft (Ø27)	Absolute	BiSS C / SSi (Only with one optical chip)
 AR90	Netzer "DS90"	22 Bit	±10" *	Hollow Shaft (Ø50)	Absolute	BiSS C / SSi (Only with one optical chip)
 AR100	Netzer "DF100"	22 Bit	±10" *	Hollow Shaft (Ø57H7)	Absolute	BiSS C / SSi (Only with one optical chip)
 AKW100		24 Bit	±10"	Hollow Shaft (Ø40H6)	Absolute	BiSS C / SSi
 AKW150		25 Bit	±10"	Hollow Shaft	Absolute	BiSS C / SSi
 Encoder-AN		Up to 22 Bit	±10" *	Hollow Shaft (Ø50)	Absolute	BiSS C / SSi

* Expected at optimal mechanical installation.

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ANGLE ENCODERS	CROSS REFERENCE	NUMBER OF LINES*	ACCURACY (ARC. SEC)	SHAFT TYPE	OUTPUT SIGNALS
	A90H Heidenhain RON 200 Series Fagor H-D90 Series	18.000	± 5	Hollow shaft w/ integrated stator coupling	~ 11 uApp ~ 1 Vpp □ TTL
	A110 Heidenhain ROD Series Fagor S-D90 Series	18.000	± 5	Solid shaft	~ 11 uApp ~ 1 Vpp □ TTL
	A110H Heidenhain RON 200 Series	18.000	± 5	Hollow shaft w/ integrated stator coupling	~ 11 uApp ~ 1 Vpp □ TTL
	A170 Heidenhain ROD 700, 800 Series	18.000 / 36.000	± 2.5	Solid shaft	~ 11 uApp ~ 1 Vpp □ TTL
	A170H Heidenhain RON 700 Series	18.000 / 36.000	± 2.5	Hollow shaft w/ integrated stator coupling	~ 11 uApp ~ 1 Vpp □ TTL
	A200H Heidenhain RON 700, 800 Series	36.000	± 2	Hollow shaft w/ integrated stator coupling	~ 11 uApp ~ 1 Vpp □ TTL

*possible interpolation factor up to x100.

Precizika Metrology has a long history of old traditions in the leadership of design and production of metrological equipment – rotary, angle, linear encoders and optical encoder gratings. The Lithuanian company has been in the industry for over 50 years and with this heritage comes both pride and great responsibility to continuously move forward, improve and evolve in order to satisfy the ever-changing industry needs. A huge part of time spent in the industry was dedicated to working with top-of-the-line original equipment manufacturing (OEM) companies, listening to their feedback and providing innovative solutions to a variety of diverse conundrums.

Consistent supply of high quality products and services that match or exceed the quality standards our customers expect and deserve is the main goal that drives us forward, constantly

investing in new projects, future proof equipment and bright minds. The ability to take advantage of accumulated know-how and to channel the experience provides us with a unique perspective and position in the market that opens new ways to innovate and provide industry defining product solutions.

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