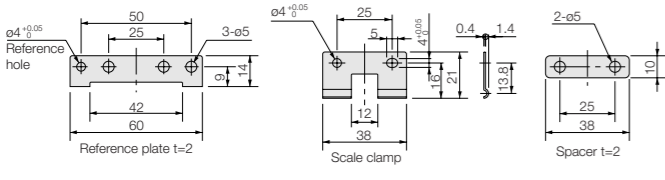
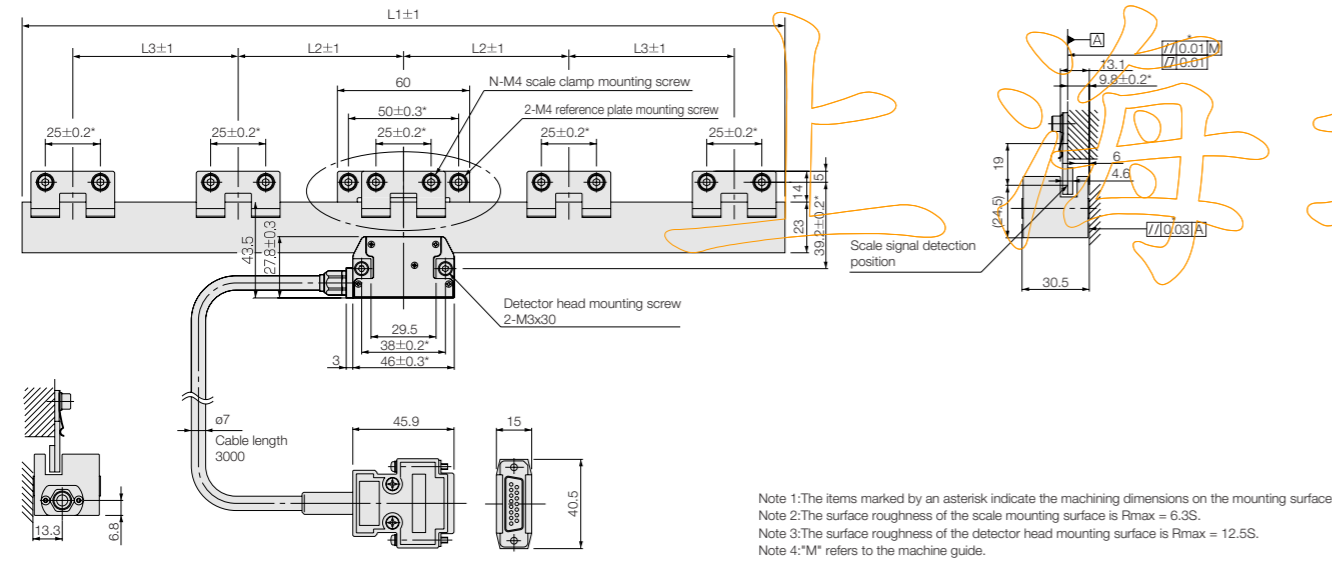


External Dimensions

● BS78-xxx(NS)(measuring length:40/120/170/220/370/420)



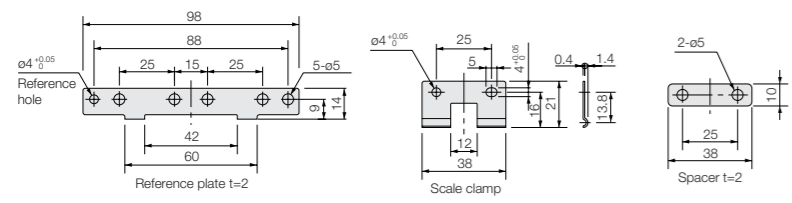
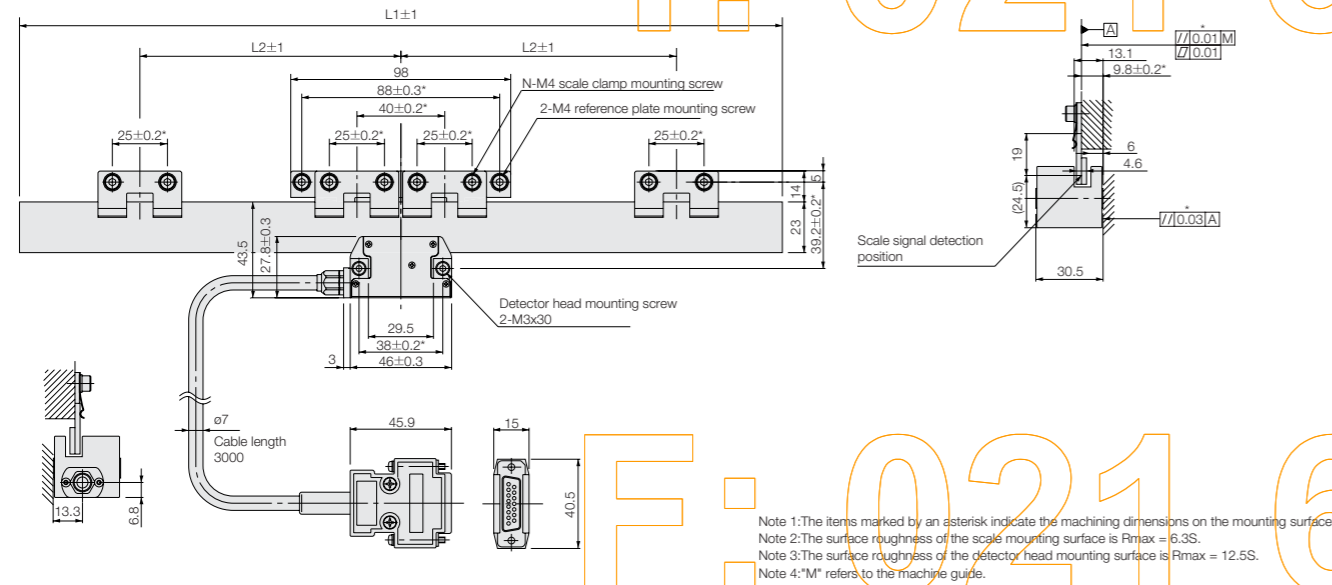
Model	L1	L2	L3	N
BS78-40N (NS)	66	—	—	2
BS78-120N (NS)	146	50	—	6
BS78-170N (NS)	196	75	—	6
BS78-220N (NS)	246	100	—	6
BS78-370N (NS)	396	75	75	10
BS78-420N (NS)	446	100	100	10

Unit: mm

Main specifications

Model	BS78
Measuring length	10(only N/NS)/40/70/120/170/220/270/320/370/420
Overall length	58mm (Measuring length 10mm) Measuring length + 26mm (Measuring length 40mm to 420mm)
Max. travel length	Measuring length + 2mm (Measuring length 10mm) Measuring length + 10mm (Measuring length 40mm to 420mm)
Accuracy(at20°C)	NS type, RS type : $\pm 0.03\mu m$ (NS type) $\pm 0.04\mu m$ $\pm 0.10\mu m$ $\pm 0.18\mu m$ $\pm 0.25\mu m$ $\pm 0.34\mu m$ $\pm 0.39\mu m$ $\pm 0.44\mu m$ N type, R type : $\pm 0.06\mu m$ $\pm 0.08\mu m$ $\pm 0.20\mu m$ $\pm 0.35\mu m$ $\pm 0.50\mu m$ $\pm 0.65\mu m$
Reference point accuracy	$\pm 0.1\mu m$ (Only R/RS type)
Reference point position	At the center, and every 50mm from the center to the left and to the right (BS78 models with measuring lengths of 320, 370, 420mm: 20mm offset from the center at 50mm intervals)
Reference point detection direction	Single direction
Return error	In principle, No Return error.
Repeatability	In principle, No Return error.
Temperature coefficient	$-0.7 \times 10^{-6}/^{\circ}C$
Light source	Semiconductor laser Wavelength, 780nm, Maximum output 10mW
Radiation power	DHHS class 1
Detection type	Diffraction grating scan type
Operating temperature	10°C to 30°C (No condensation)
Storage temperature	-10°C to 50°C (Humidity 60% or less)
Weight	0.4/0.41/0.42/0.43/0.44/0.45/0.46/0.47/0.48kg (including head)

● BS78-xxx(NS)(measuring length:70/270/320)



Model	L1	L2	N
BS78-70N (NS)	96	—	4
BS78-270N (NS)	296	120	8
BS78-320N (NS)	346	120	8

Unit: mm

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