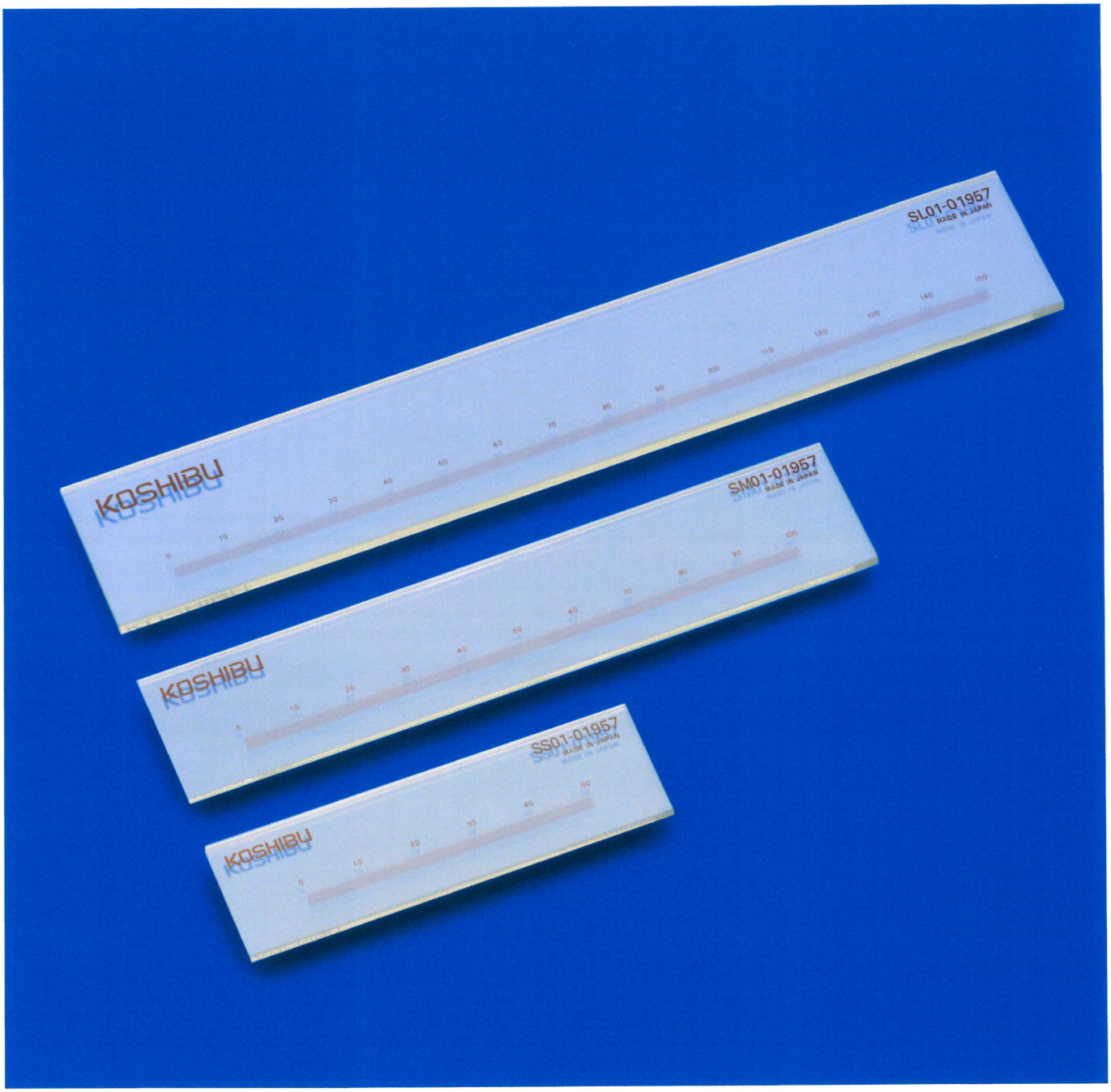
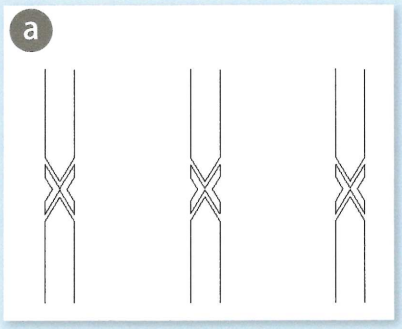
HYBRID STANDARD SCALE

For Enhanced Measurement Precision

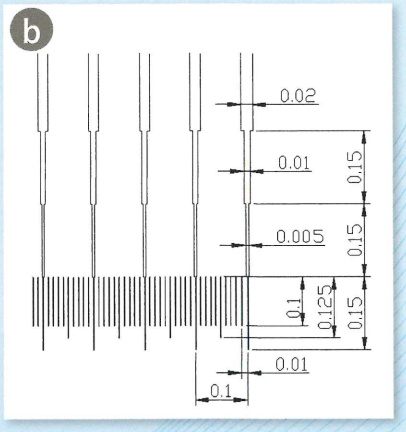
This is a high-precision standard scale written directly using the Laser Direct Write Pattern Generator in order to achieve even more precise measurements.
In addition to standard gradation lines, a stage micrometer function has been included, so that one scale can be used for measuring devices, precision measuring and evaluation in semiconductor manufacturing, magnification calibration of microscopes, etc.



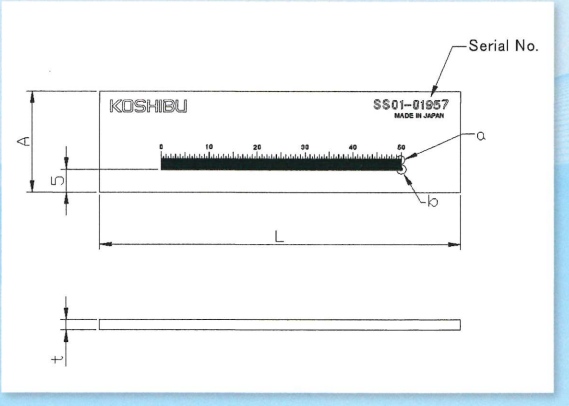
Laser Direct Write Pattern Generator

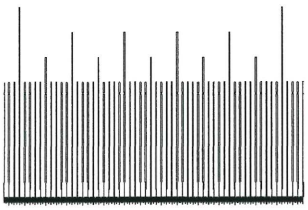


All Main Gradation lines are designed so as to minimize mistakes in reading measurements.

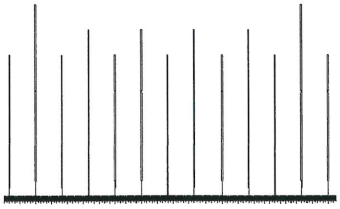


In order to enable even more precise measurements, all the Main Gradation lines change in width in steps from 0.02 ㎜ /0.01 ㎜ /0.005 ㎜ , connecting to Subsidiary Gradation lines approximately 0.001 ㎜ wide, in 0.01 ㎜ intervals.
With these compound gradation lines, it can be used for multi-purpose applications.
＊Diagram b is 0.1 mm spacing Main Gradation.





Main Gradation Scale spacing 0.1 ㎜-type



Main Gradation Scale spacing 0.5 ㎜-type

Scale specifications

CODE No.	SS01	SS05	SM01	SM05	SL01	SL05
Measurement length	50mm	50mm	100mm	100mm	150mm	150mm
Dimensions (L×A)	70×22mm	70×22mm	125×25mm	125×25mm	175×30mm	175×30mm
Thickness (t)	2.3mm	2.3mm	2.3mm	2.3mm	3.0mm	3.0mm
Main Gradation Scale spacing	0.1mm	0.5mm	0.1mm	0.5mm	0.1mm	0.5mm
Main Gradation Line width	Common to all models：0.02 ㎜ /0.01 ㎜ /0.005 ㎜ compound type					
Subsidiary Gradation Scal spacing	Common to all models：0.01 ㎜					
Subsidiary Gradation Line width	Common to all models：0.001 ㎜					
Number of Subsidiary Gradation Lines	5000 lines	5000 lines	10000 lines	10000 lines	15000 lines	15000 lines
Precision (μm)	Common to all models：2L/1000+1.5 ＊L= optional distance between 2 points (㎜) ＊Temp.：23℃					
Glass material	Common to all models：Blue plate soda-lime glass					
Properties of the Gradation Film	Common to all models：Cr+Cr O (double-layered film)					

＊We cannot guarantee the precision when used outside the standard temperature range.
＊These specifications may be changed without prior notice.