

Reference Gages



High Precision Square  
SERIES 311

- The High-Precision Square gage is used for inspecting the travel straightness and axial perpendicularity of moving elements on equipment, such as machine tools and CMMs.
- Four precision-lapped reference surfaces, finished using ultra-precision technology built on our experience in gauge blocks.
- Better than 1  $\mu\text{m}$ /300 mm straightness and perpendicularity of each (four) reference surface. In addition, front and back faces are accurate to better than 5  $\mu\text{m}$ /300 mm.
- Three nominal sizes are available (90×110, 160×210 and 260×310 mm) so that you can select the size that best suits the application.



311-113

SPECIFICATIONS

Code No.	Dimension (W×L×T) (mm)	Perpendicularity tolerance ( $\mu\text{m}$ )		Straightness tolerance ( $\mu\text{m}$ )		Mass (kg)
		Reference surface	Front/ back faces	Reference surface	Front/ back faces	
311-111	90×110×25	1	5	1	5	1.5
311-112	160×210×25					5.0
311-113*	260×310×30					14.0

- Dedicated wooden case is provided.
- \* Supplied with a removable handle.