

Profile Projectors

For efficient measurement, inspection and observation of very small workpieces

PJ-PLUS Series

SERIES 302 — Premium Benchtop Series

- The profile projector that "can be operated intuitively" even by inexperienced operators and also has excellent durability and energy saving performance thanks to adoption of an "LED illumination source" and "fan-less cooling system".
- Provides stable dimension and angle measurements in harsher environments, such as manufacturing and processing lines, than can be handled by conventional models.
- Stepless illumination has been adopted so as to allow precise adjustment of lighting to suit the surface texture and color of the workpiece.

MeasurLink[®] ENABLED
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PJ-P2010A

SPECIFICATIONS

Model No.		PJ-P1010A		PJ-P2010A	
Order No.		302-801-10	302-801-20	302-802-10	302-802-20
Unit system for the counter unit		mm/in	mm	mm/in	mm
Projected image		Inverted-reversed			
Protractor screen	Effective diameter	ø315 mm (12.4 in)			
	Screen rotation	±360° (±370° for display)			
	Angle display	Digital counter (ABS/INC mode switching, Zero Set)			
	Resolution	1' or 0.01° (switchable)			
	Cross-hairs	90° (solid lines)			
Projection lens	Magnification	10X (standard accessory), 20X, 50X, 100X 10X, 20X (equipped with an external half-mirror for coaxial surface illumination)			
	Lens mount	Bayonet mount			
Illumination	Contour illumination	White LED light source, Telecentric, Variable brightness adjustment			
	Surface illumination	White LED light source, With an adjustable condenser lens, Variable brightness adjustment			
Resolution for X/Y counter		0.001 mm or 0.0001 in/0.001 mm			
Measuring unit		Digital scale			
Measuring range (X×Y)		100×100 mm		200×100 mm	

PJ-H30

SERIES 303 — Premium Benchtop Series

- Conforms to JIS B 7184: 1999 "Profile projectors".
- High-end model that achieves accuracy of $(3.0 + 0.02L) \mu\text{m}$
- ø306 mm screen makes erect-unreversed images more visible.
- The largest measuring range in the class, up to 300×170 mm.
- Quick-release handle and 3-lens parfocal turret enables efficient measurement.
- Elevating shaft mechanism for the screen head reduces operator fatigue.
- Unique model equipped with a highly accurate edge detector (OPTOEYE) and motorized up/down drive is available.

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PJ-H30D3017B

SPECIFICATIONS

Protractor screen	Model No.	PJ-H30A1010B	PJ-H30A2010B	PJ-H30A2017B	PJ-H30A3017B
	Order No.	303-712-1* ¹	303-713-1* ¹	303-714-1* ¹	303-715-1* ¹
Protractor screen, OPTOEYE (built-in), Electromotive focusing	Model No.	PJ-H30D1010B	PJ-H30D2010B	PJ-H30D2017B	PJ-H30D3017B
	Order No.	303-732-1* ¹	303-733-1* ¹	303-734-1* ¹	303-735-1* ¹
Projected image		Erect			
Protractor screen	Effective diameter	ø306 mm (12 in)			
	Screen rotation	±360° (±370° for display)			
	Angle display	Digital counter (ABS/INC mode switching, Zero Set)			
	Resolution	1' or 0.01° (switchable)			
	Mechanism	Fine feed and clamp			
	Cross-hairs	90° (solid lines)			
Projection lens	Magnification	10X (standard accessory), 5X, 20X, 50X, 100X, All lens have the same focus. Half-mirror for the coaxial surface illumination are built-in and movable.			
	Lens mount	Bayonet mount, 3-lens mount turret type			
Illumination	Contour illumination	Halogen bulb (24 V, 150 W, 50 hours) (515530) , Variable illumination angle (Coaxial surface/Oblique reflected, Beam concentration and adjustment), Built-in heat-absorbing filter, Built-in cooling fan, Stepless brightness adjustment, Soft lighting (inrush current reduction)			
	Surface illumination	Halogen bulb (24 V, 150 W, 50 hours) (515530) , Zoom Telecentric system, Heat absorbing filter, Built-in cooling fan, Stepless brightness adjustment, Soft lighting (inrush current reduction), Bulb sliding mechanism			
Resolution for X/Y counter* ²		0.001 mm/0.0001 in			
Measuring unit		High-accuracy digital scale			
Measuring range (X×Y)		100×100 mm	200×100 mm	200×170 mm	300×170 mm
Measuring accuracy* ³		(3 + 0.02L) μm L=Measured length (mm)			

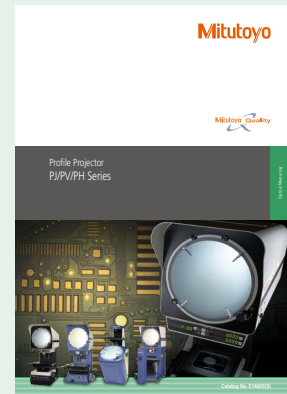
*1 To denote your AC power cable add the following suffixes to the order No.: A for UL/CSA, D for CEE, DC for CCC, E for BS, K for KC, C and No suffix is required for PSE.

*2 0.5 μm or 0.1 μm resolution is also available. Please contact Mitutoyo Techno Service Business Division.

*3 Measuring method complies with JIS B 7184.

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Products equipped with the measurement data output function can be connected to the measurement data network system MeasurLink (refer to page A-5 for details).



Refer to the Profile Projector Brochure (E14005) for more details.

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