



A STUDY OF STANDARD OPERATION FOR PROFILE PROJECTOR
A CASE STUDY AT METROLOGY LAB FKM UiTM PULAU
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CHAPTER 1: INTRODUCTION

All such measurements form a part of the science of metrology especially concerned with measurement of length, angle, datum, circle, a line and so on. Of these length is of fundamental importance since angular measurements may be carried out by the appropriate use of linear measurement in combination.

Specifications of the equipment (profile Projector):

Measuring Travel – 10" (250 mm) horizontal (X) • 4" (100 mm) vertical (Y) • 2.5" (60 mm) focus with Quick Release on X-Axis

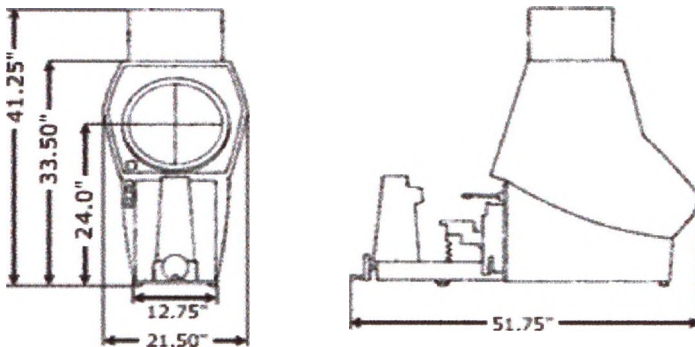
Precision Measuring Stage – 5" x 16" (125 x 400 mm) nickel-plated top plate

Digital Screen Protractor On 3550 Series – angular readings to 1 minute of arc

Duplex Fiber Optic Surface Illumination 14" Frosted Glass Screen – with 30, 60, and 90 degree cross lines

Helix - $\pm 6^\circ$ via lamp house displacement

Heavy Duty Dust Cover



Steel construction with Polyethylene body

50 lb. (22 kg.) allowable workload on stages

Electrical: 115/220 Volts, 50-60 Hz, Single Phase, 2.0 Amp

Approx. Weight: Net 170 lbs. (75 kg) - Crated 200 lbs. (90 kg)