

Mechanical Drawing: Board & CAD Techniques

Chapter 3 Drafting Equipment

Chapter Summaries

Section 3.1 Board-Drafting Equipment

- Basic board-drafting equipment includes drawing tables or desks, drawing boards, and various instruments that improve accuracy, such as T-squares and triangles.
- Standard drawing sheet sizes are specified by the American National Standards Institute (ANSI) and the International Standards Organization (ISO).
- Technical drawings can be made on vellum or polyester film (board drafting) or using computer software.
- Drawing instruments include the dividers, compass, beam compass, and bow instruments.
- Board drafters use various drafting pencils and technical pens to create accurate technical drawings.
- Scales are used to lay off distances and to make measurements.

Section 3.2 Computer-Aided Drafting (CAD) Equipment

- The hardware for a computer workstation includes a CPU, at least one monitor, input devices, and a printer.
- CAD software is a computer program that allows drafters to create technical drawings using a computer.
- Before purchasing CAD furniture, you should consider how well the furniture meets your individual drafting needs.
- Drafters should take ergonomic and safety into account when considering CAD hardware and furniture.