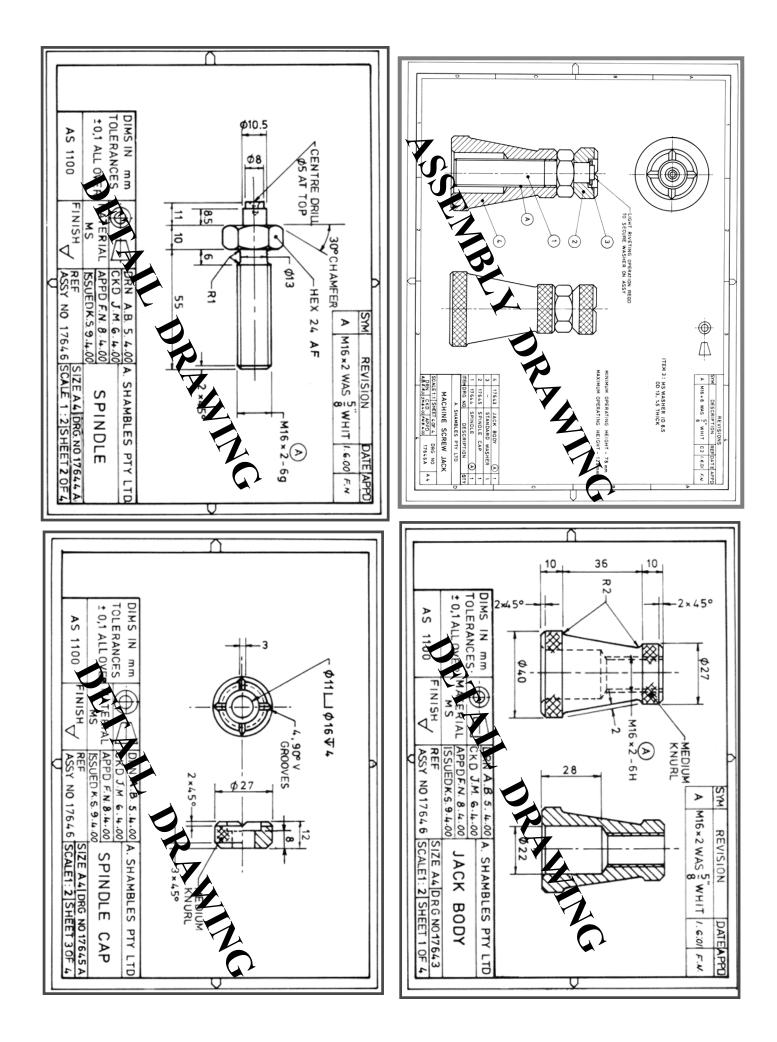
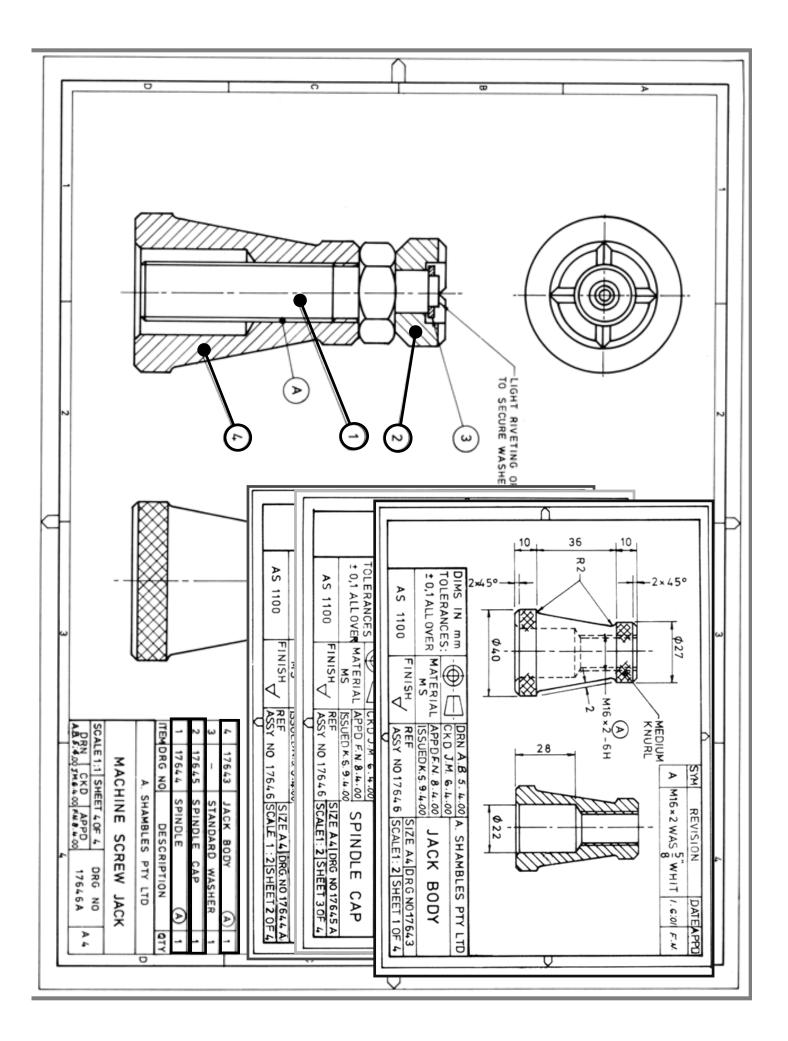
Working Drawings

consist of:

 Detail drawings: Show all of the necessary information to manufacture the necessary parts.

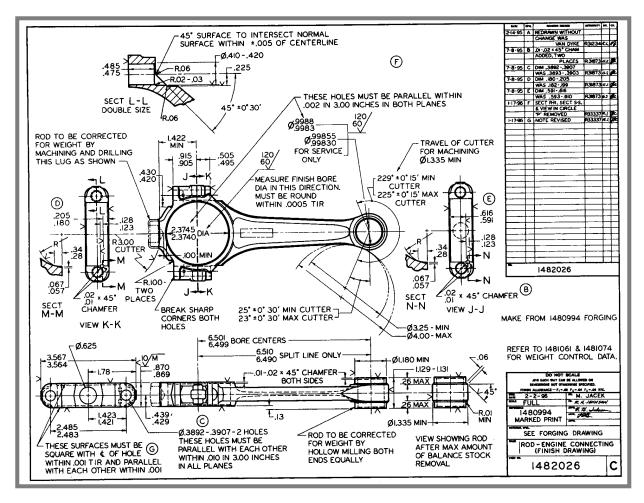
 Assembly drawings: Show how multiple parts fit together.





Detail Drawings

This includes multiple views providing the shape description , dimensions and notes, and material specification



Assembly Drawings

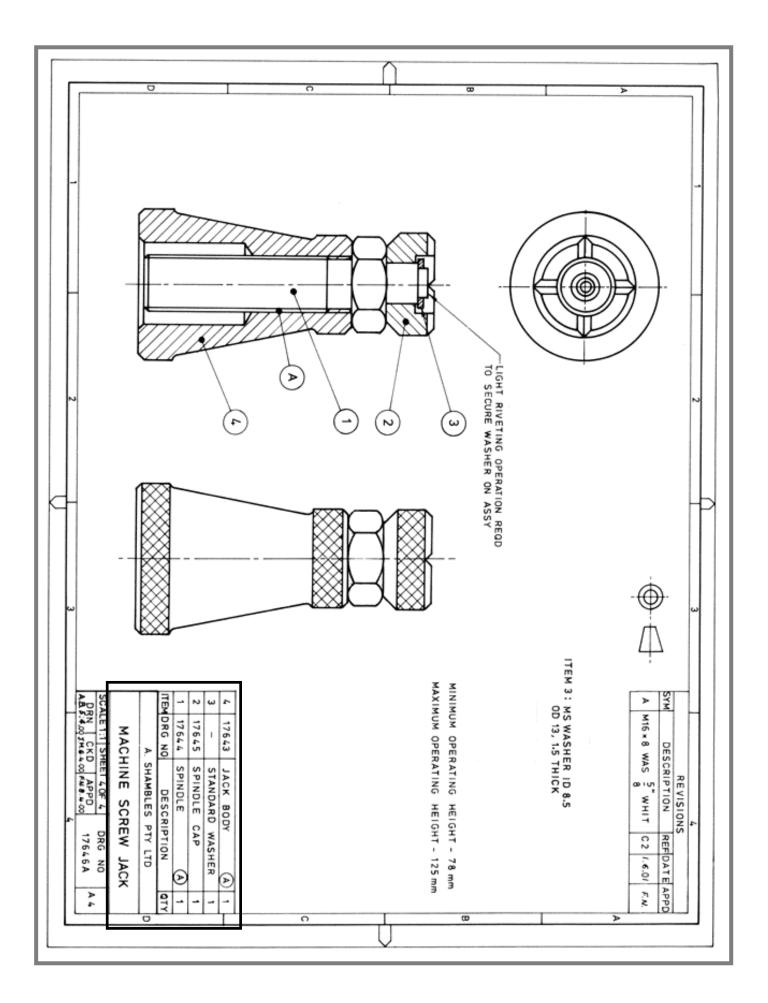
Show the assembled machine or structure, with all detail parts in their functional postitions

• Design assemblies or layouts

• General assemblies

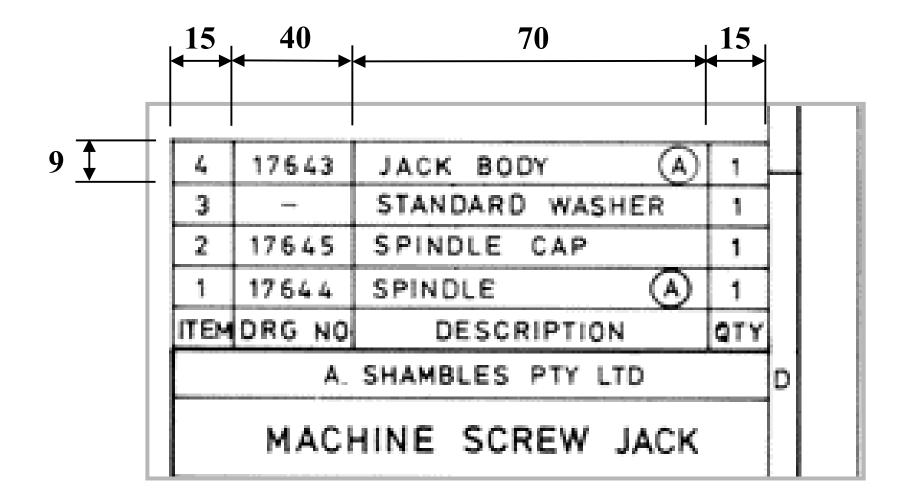
- Working drawing assemblies
- Outline or installation assemblies

• Check assemblies



Part Lists of Assembly Drawings

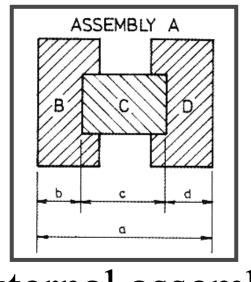
For A1, A2, A3, A4 size sheets.



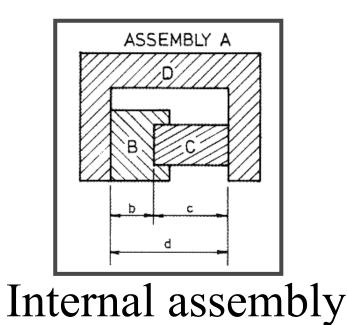
Assembly Parts

The combination or 'fitting together' of components designed to perform a specific mechanical function. Each component has a finished size which lies within a specified tolerance.

Two types of assemblies:

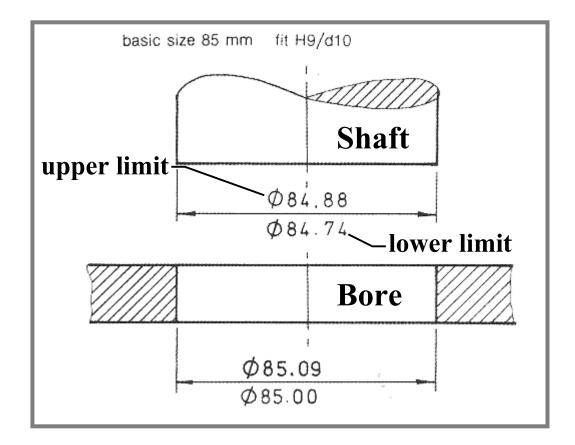


External assembly

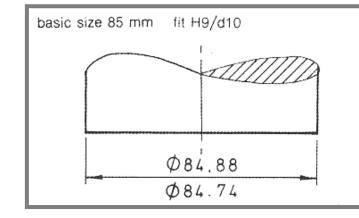


Tolerances

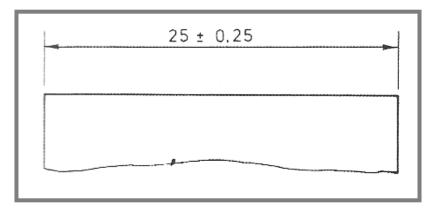
Tolerances should be specified in the case where a dimension is critical to proper functioning of a component.



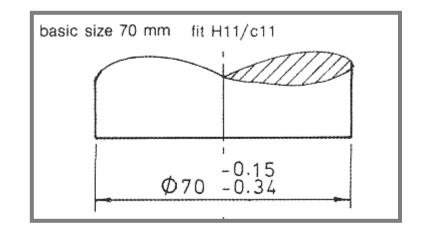
Individual Tolerances





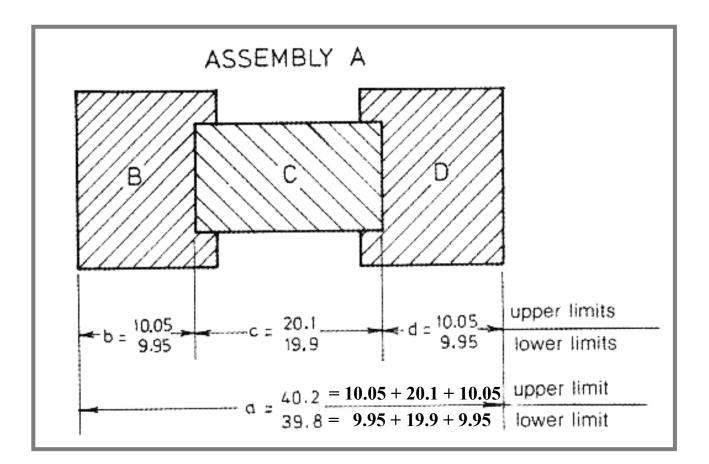


Bilateral tolerances



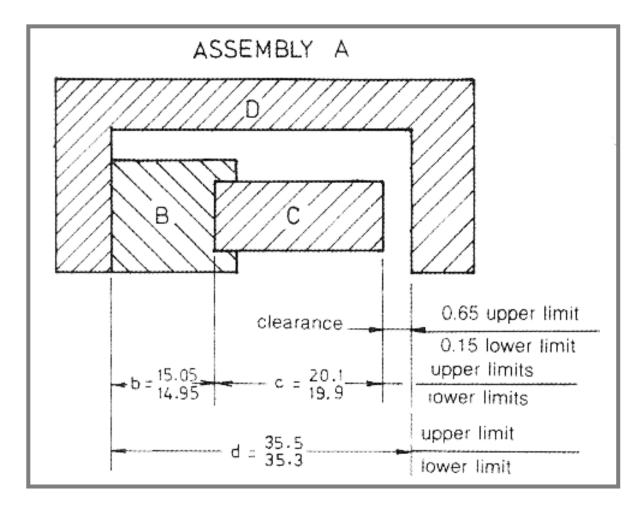
Unilateral tolerances

Assembly Tolerances



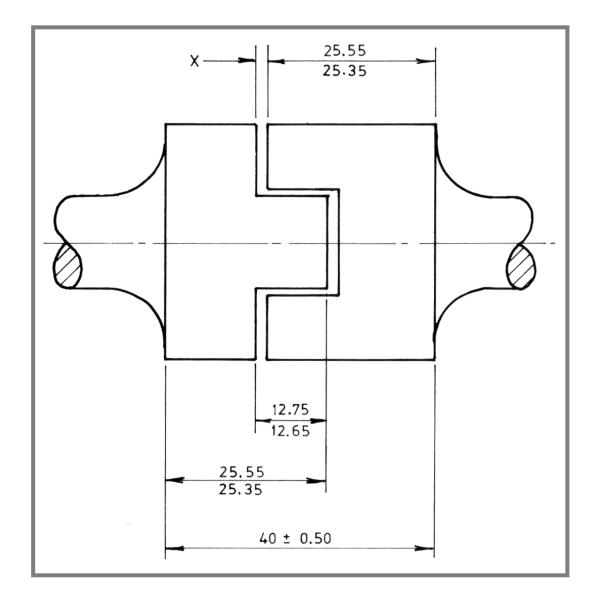
External Assembly

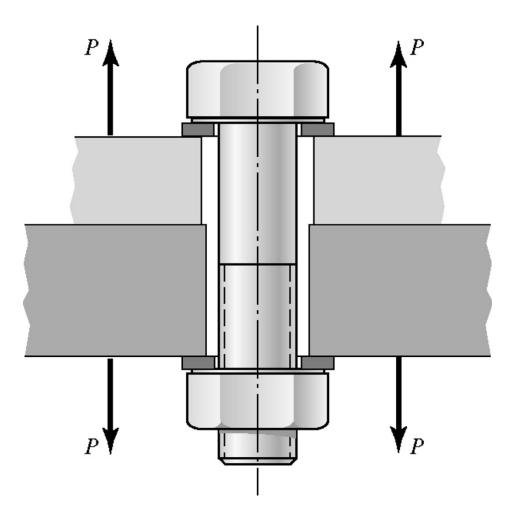
Assembly Tolerances

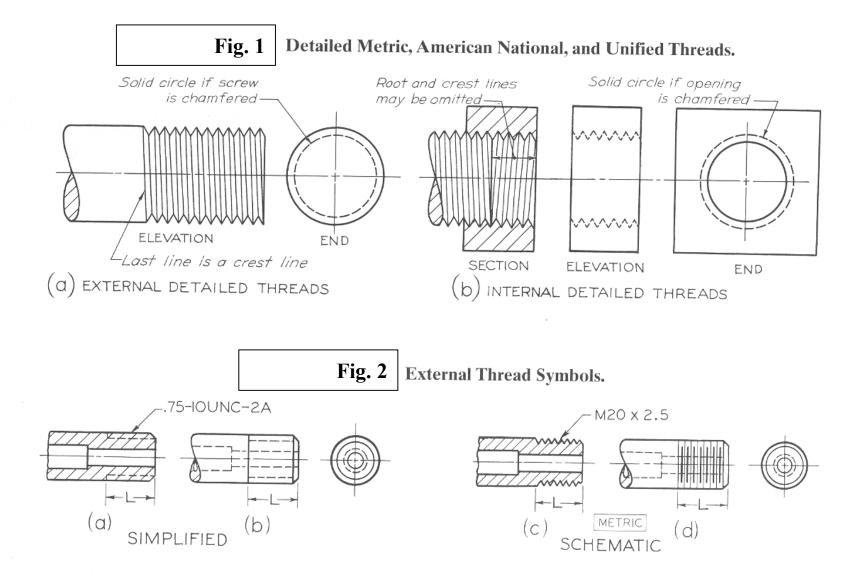


Internal Assembly

Examples







MAJOR DIAMETER	#5 (.125) To #12 (.216)	.25	.3125	.375	.4375	.5	.5625	.625	.6875	.75	.8 25	.875	.9375	dojda
DEPTH, D	.03 25	.03125	.03 25	.0468	.0468	.0625	.0625	.0625	.0625	.0781	.0937	.0937	.0937	.0937
PITCH, P	.0468	.0625	.0625	.0625	.0625	.0937	.0937	.0937	.0937	.125	.125	.125	.125	.125
For metric val	ves: " = 25	5.4 mm (or see ins	side fron	t cover.)									19.3
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