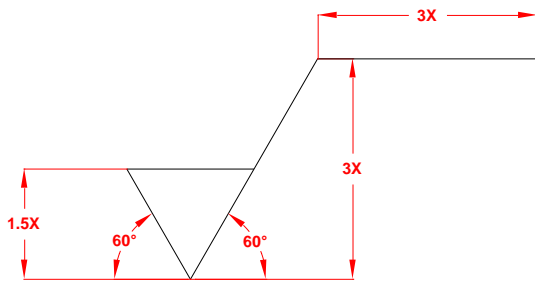


SURFACE TEXTURE SYMBOL¹

A **finish mark** is used to indicate that a surface is to be machined, or finished, as on a rough casting or forging (Fig.1).

Important notes:

- The point of the symbol should be directed toward the body of metal (similar to a tool bit).
- The symbols are not drawn at any angle.



(a)		Basic texture surface symbol. Surface can be produced by any method.
(b)		Material removal by machining is required therefore extra material must be provided for machining.
(c)		Material removal allowance in millimeter or inches (Tolerances may be added).
(d)		Material removal is not allowed.
(e)		Surface texture symbol. To be used when any surface characteristics are specified.

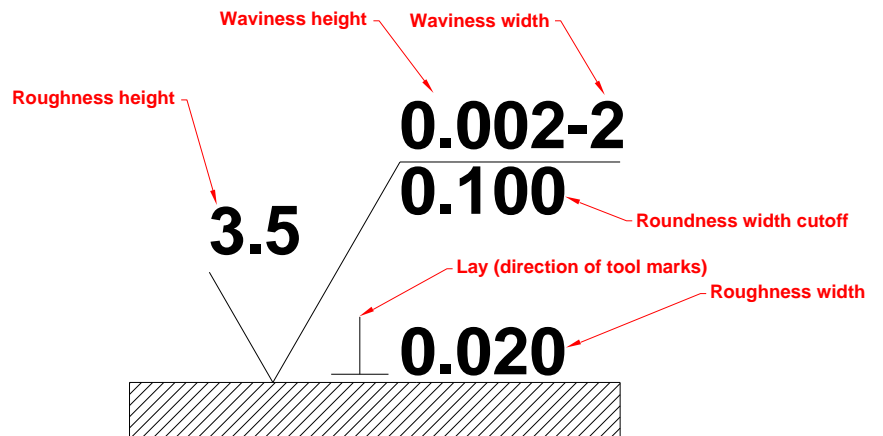
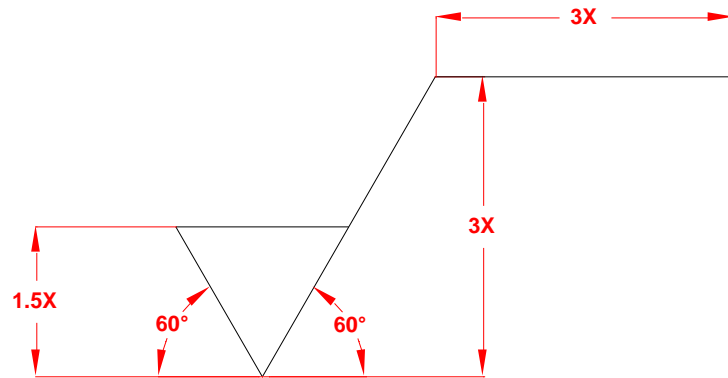


Fig.1 | Surface Texture Symbols and Construction.

¹ Jensen, Cecil, Jay D. Helsel, and Dennis R. Short. "Engineering Drawing & Design,-7/E." (2007).



(1)		Lay perpendicular to the line representing the surface (direction of tool marks).	
(2)		Lay parallel to the line representing the surface (direction of tool marks).	
(3)	C	Lay circular to the line representing the surface (direction of tool marks).	
(4)	X	Lay angular in both directions to the line representing the surface (direction of tool marks).	
(5)	M	Lay multidirectional (direction of tool marks).	
(6)	R	Lay radial to the line representing the surface (direction of tool marks).	

Fig.2 | Lay Symbols.