Code of practice
Engineering drawing

8 Conventional representation of common features
8.1 Common features
To save time and space when a commonly occurring feature is being drawn, conventional representations may be used, preferably in the simplified form, where applicable, as given in figure 30.
8.1.1 Squares and other flat faces
Flat faces such as squares, tapered squares and local flats may be indicated by crossed diagonal thin lines (see figure 29).

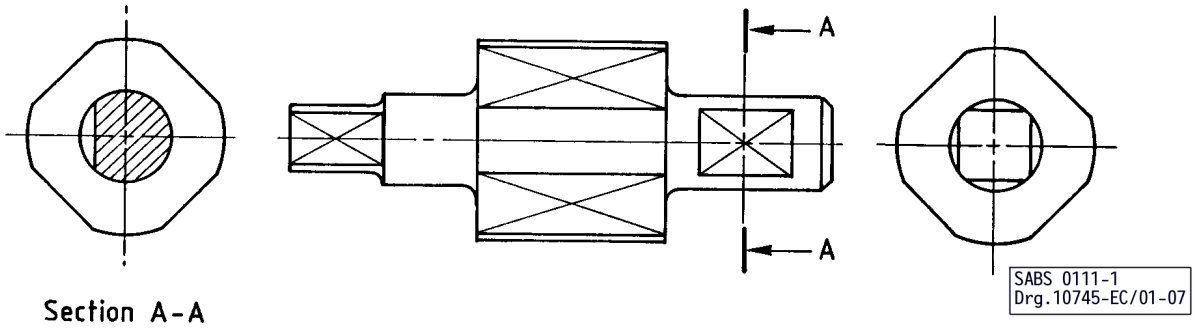


Figure 29 — Square on a shaft and flat face on a cylinder

8.1.2 Other conventional representations
Other conventional representations are shown in figure 30.

Figure 30 – Conventional representation of common features. [page 29 SANS 1011 (SABS 0111)]

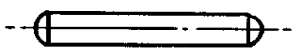
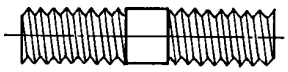
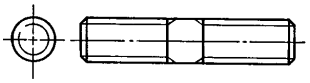
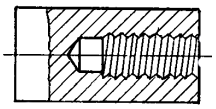
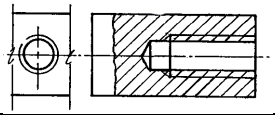
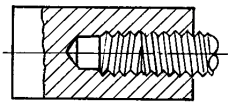
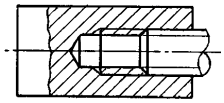
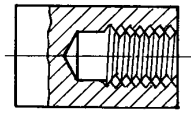
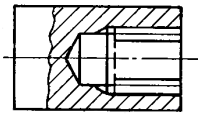
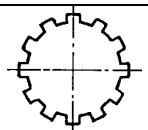
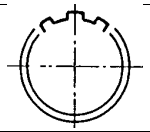
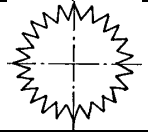
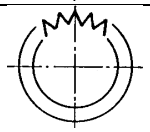
Feature	Detailed representation	Conventional representation
Dowel		
External screw threads (detail)		
Internal screw threads (detail)		
Screw threads (assembly)		
Thread insert		
Splined shaft		
Serrated shaft		

Figure 30 cont. – Conventional representation of common features. [page 32 SANS 1011 (SABS 0111)]

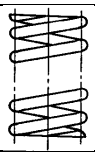
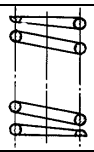
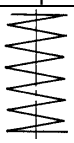
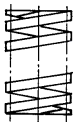
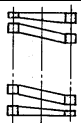
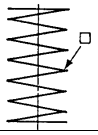
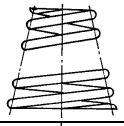
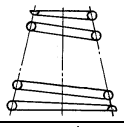
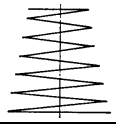
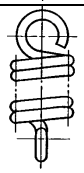
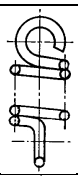
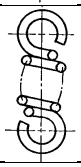
Feature	Conventional representation		
	View	Section	Simplified
Cylindrical helical compression spring of wire of circular cross-section			
Cylindrical helical compression spring of wire of rectangular cross-section			
Conical helical compression spring of wire of circular cross-section			
Cylindrical helical tension spring of wire of circular cross-section			
Barrel-shaped helical tension spring of wire of circular cross-section			

Figure 30 cont. – Conventional representation of common features. [page 33 SANS 1011 (SABS 0111)]

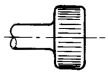
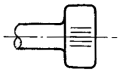
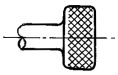
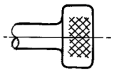
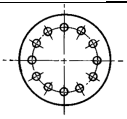
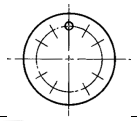
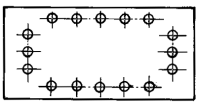
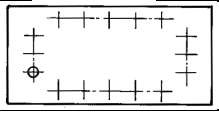
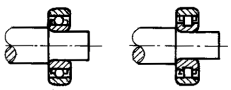
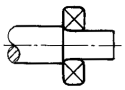
Features	Detailed representation	Conventional representation
Straight knurling		
Diamond knurling		
Holes on a circular pitch		
Holes on linear pitch		
Bearings		

Figure 30 cont. – Conventional representation of common features. [page 34 SANS 1011 (SABS 0111)]

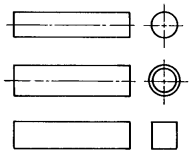
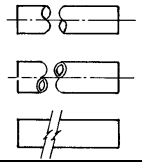
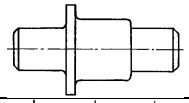
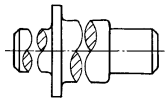
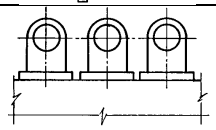
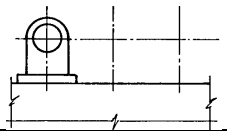
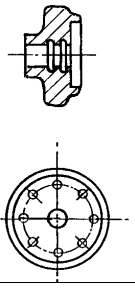
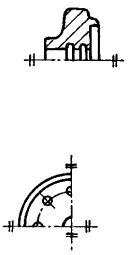
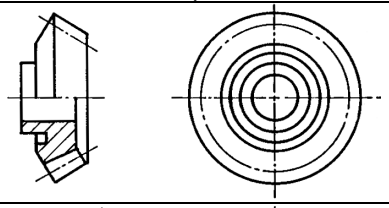
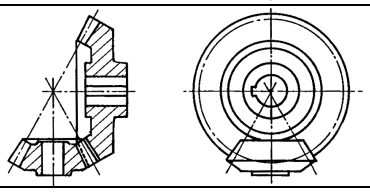
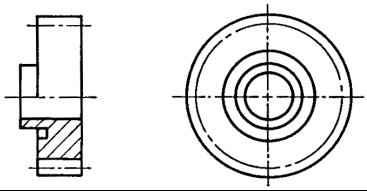
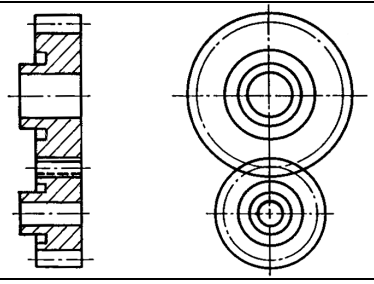
Features	Detailed representation	Conventional representation
Interrupted views		
Interrupted view on a round section		
Repeated features		
Treatment of symmetrical components		

Figure 31 – Conventional representation of gears. [page 36 SANS 1011 (SABS 0111)]

Feature	Conventional representation
Bevel gear (detail)	
Bevel gears (assembly)	
Spur gear (detail)	
Spur gears (assembly)	

Dimensioning of countersinks, counterbores and spot faces [Figure 73 p 64 SANS 1011 (SABS 0111)]

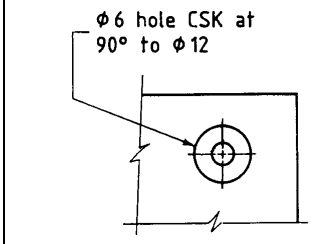
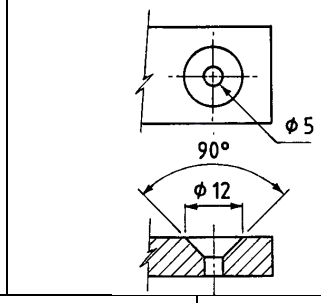
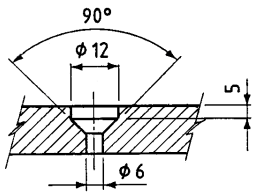
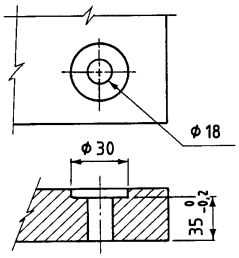
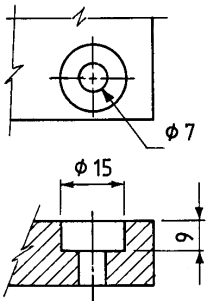
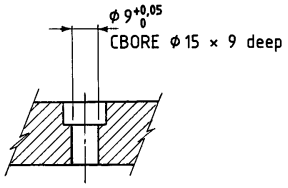
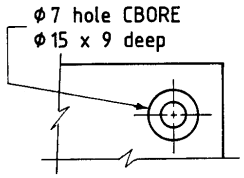
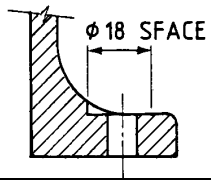
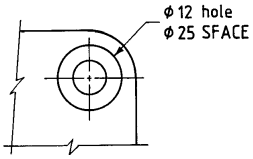
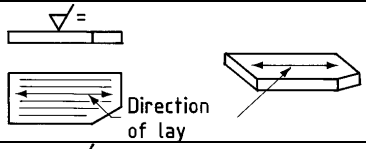
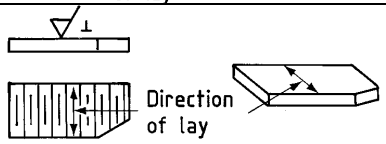
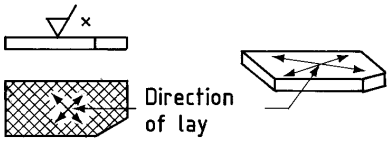
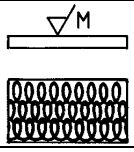
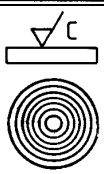
Countersink				
Counterbore				
Spotface				

Table 8 – symbols for direction of lay [page 84 SANS 1011 (SABS 0111)]

1	2
Lay symbols	Interpretation
=	Parallel to the plane of projection of the view in which the symbol is used 
⊥	Perpendicular to the plane of projection of the view in which the symbol is used 
X	Crossed in two slant directions relative to the plane of the view in which the symbol is used 
M	Multi-directional 
C	Approximately circular relative to the centre of the surface to which the symbol is applied 
R	Approximately radial relative to the centre of the surface to which the symbol is applied 