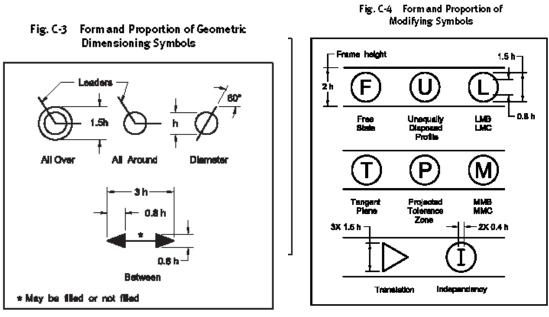
John Crawford Honeywell FM&T 816-997-3495 jcrawford@kcp.com April 28, 2009 Comments and pictures added by Karen Moore 816-997-4611 kmoore@kcp.com

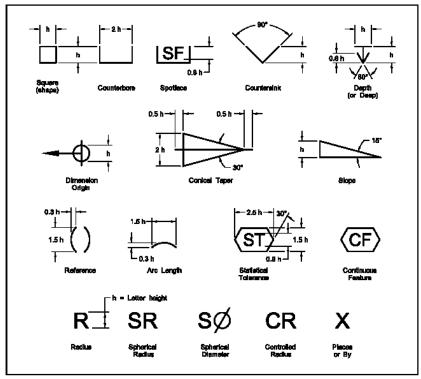
The table below list new symbol applications that Pro/E does not support. Physical description of the symbols can be found in Figure 3-11 of ASME Y14.5-2009. The table denotes where the symbols should be accessible in Pro/E and the last column shows where the physical construction guidelines are located in ASME Y14.5-2009

0 1 1	A 11 1 1.	A 1 1 1 1	A CIME 3/14 5 2000
Symbol per	Add symbol to	Add symbol	ASME Y14.5-2009
ASME Y14.5-	Pro/E Note text	to	Form & Preparation
2009	Symbol box	Pro/E	Figure (sheet 194-196)
Figure 3-11 sheet		Geometric	
42		Tolerance	
		symbol	
		table	
Translation	X	X	C4
Tangent Plane		X	C4
Unequally	X This one never worked,	X This is in	C4
Disposed Profile	although the symbol is now WF4	WF4	
	but does not put the phantom		
	lines offset		
Independency	Х		C4
Continuous	X		C5
Feature			
Arc Length	X WF5?		C5
All Over		X	C3
Spotface symbol	Х		C5
per para3.3.13			



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Fig. C-5 Form and Proportion of Dimensioning Symbols and Letters

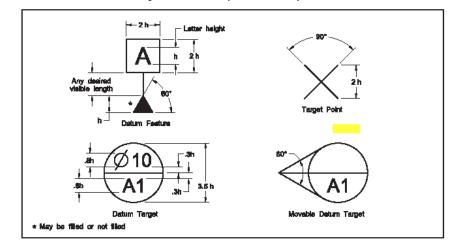


• The Movable Datum Target Symbol as defined in ASME Y14.5-2009 Para 3.3.27 needs to be added to drawing mode in "INSERT/DRAFT DATUM" Symbol

configuration is described in Figure C1, sheet 194.

3.3.27 Movable Datum Target Symbol

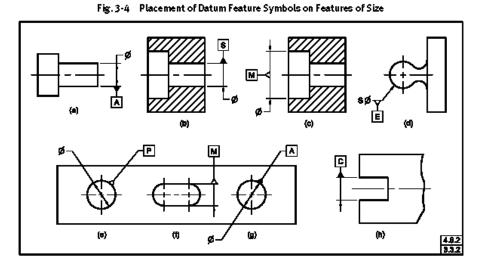
This symbol indicates that a datum target is not fixed at its basic location and is free to translate. See Figs. 3-22, 4-47, and 4-49 and para. 4.24.6.





ADDITIONAL COMMENTS:

• The datum attachment methods portrayed in ASME Y14.5-2009 FIGURE 3-4 c and d on sheet 40 are not supported by Pro/E.



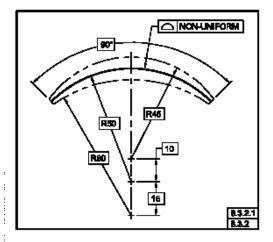
• Although the Regardless of Feature Size (RFS) symbol is not a requirement of ASME Y14.5-2009 or ASME Y14.5-1994 the symbol should be left in the Geometric Tolerance Symbol Table as to cover legacy drawings that were created with the symbols. RFS was used on many drawings even though they were created during the 1994 period.

- ASME Y14.5-2009 should not be indorsed as the complex dimensioning standard until authorized by a revision to 9900000, paragraph 3.1 listing the new document and effectively date.
- Dimension Origin Symbol very obscure to find in Pro/E. Must right click dimension leader, select "ARROW STYLE/DOT"
- The "NON-UNIFORM" Profile control note configuration described in ASME Y14.5-2009 Para 8.3.2.1 and Figures 8-9, 8-10 and 8-11 cannot be created by the Pro/E Geometric Tolerance Symbol Table. The table will not allow letters in the tolerance block section.

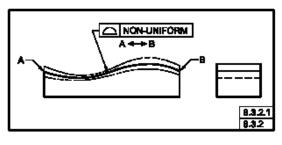
8.3.2.1 Drawing Indication. For the non-uniform tolerance zone, the leader line from the feature control frame is directed to the true profile. See Fig. 8-9.

Where individual segments of a profile are toleranced, the extent of each profile segment may be indicated by use of reference letters to identify the extremities or limits of each segment. See Fig. 8-10.

Fig. 8-9 Non-Uniform Profile Tolerance Zone







- Even though the term "BOUNDARY" as used an attachment to the true position callout is an optional practice in ASME Y14.5-2009 Para 8.8, I would leave the option in the Pro/E Geometric Tolerance Symbol Table, Symbols and Modifiers pick as it is. I think many of us will still want to use the "SET BOUNDARY" pick.
- Would be nice to see "SEP REQT" added as a Symbols and Modifiers pick in the Geometric Tolerance Symbol Table. Maybe I'm the only one that has trouble remembering the correct spelling.