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Ref: 9900-I-M3FS22

FastSHAPES® - Dr. Cone 32Bit

TYPICAL APPLICATIONS

Educational - College exercises

TECHNICAL DESCRIPTION

Covers the case of a right circular cone frustum having an optional oblique cut through the top.

The number of generators used in the development may be specified, and the development optionally based on chord lengths (the classical drawing board construction equivalent to triangulation) or on arc lengths (the "exact" radial line style development)

The differences between the two techniques, and the effect of number of generators on the first technique, is shown graphically and in tabular form. The table can be copied to the system clipboard and pasted elsewhere as may be required.

DATA REQUIREMENTS

Cone bottom and top diameters (at mean thickness), plus height of cone

Oblique cut angle (optional)

Number of generators

Select development basis chord/arc length

Material details (optional)

OUTPUT

Educational - as described above

Production:

FastCAM file

2D DXF file, 3D DXF File

NC Program

Costing Data, including Mass & Length of Cut

PROGRAM REFERENCE

M3FS22 : Dr. Cone

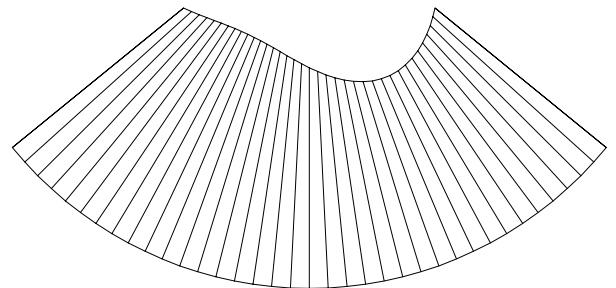
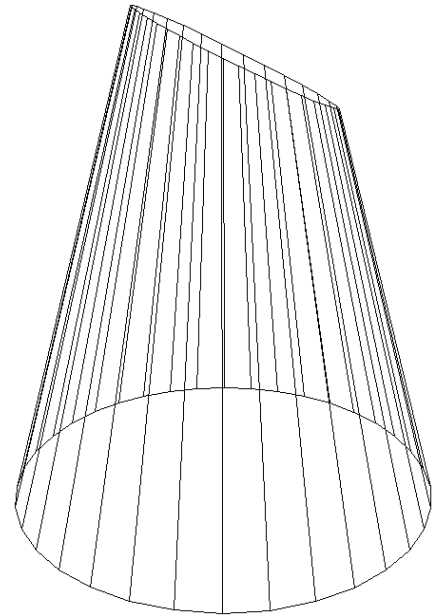
OTHER REFERENCES

M3FS21 : PENSTOCK (General right-circular-conical bends)

M3FS15 : CBRANCH (Conical Branches from a Conical Body)

M3FS17 : BIFRUC8 (Generalized Bifurcation)

M3FS6 : PBRANCH (Pipe branch from main pipe)



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