# *FastCAM*®

FastSHAPES® - BEND ⊞ 32Bit

TYPICAL APPLICATIONS

Bulk Materials Handling - chutes
Mine Ventilation/Access
Fluids Conveying - transitions and transformers.
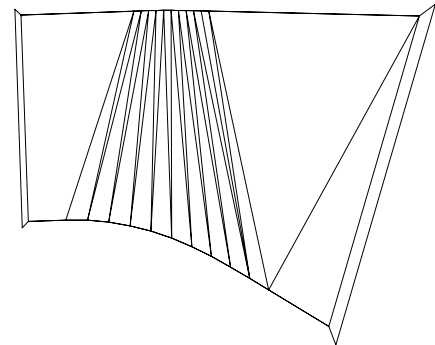`Industrial strength' structures, thick plate.

TECHNICAL DESCRIPTION

BEND provides a multi-gored bend between two ducts.
Ducts may have different shaped cross-sections.
Shapes are `rectircles', i.e. round cornered rectangles.
Rectircle describes rectangular, circular, & obround shapes.
From 2 to 10 gores permitted.
Bend angle from 1 degree to 180 degrees.
Collars optional, integral when possible (prismatic bend)
Gores Standard (Half Angle Ends) & Eschenburg (Equal Angle Gores) Setouts
Bend radius on inside, outside or centreline of bend.
Up to 8 longitudinal seams per gore.
Uses Triangulation development method as standard.
Also `AutoNest' & radial line development when possible.
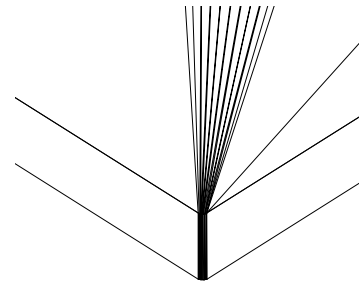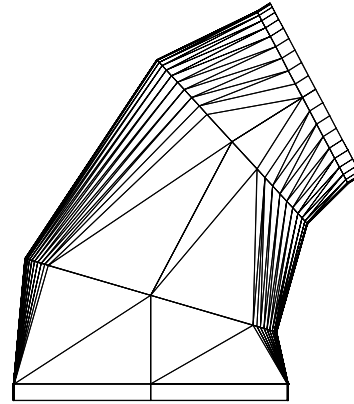
DATA REQUIREMENTS

Inlet and Outlet shape dimensions
Material, Plate thickness
Bend Angle
Bend Radius and location (inside/outside/centreline)
Number of Gores
Gore Sizing - Automatic/Equal Angle/Half Angle Ends
Collar lengths (optional)
Longitudinal Seam Locations
Green, and seam offset dimensions.
`AutoNest' seam location data (optional)

Continued….

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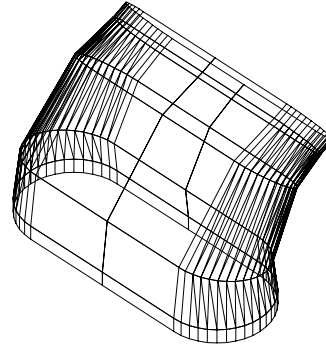## OUTPUT

Patterns in any of the following forms ...

FastCAM file

2D DXF file, 3D DXF File

NC Program

Coordinate Table

Costing Data, including Mass & Length of Cut

PROGRAM REFERENCE

M3FS11 : BEND

OTHER REFERENCES

M3FS7   : RECTIRCLE (Rectircular transitions and transformers)

M3FS12 : ELBOW (Reducing circular cross-section bends)

M3FS13 : LOBSTER (Reducing circular cross-section bends)

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

COMMON NAME

SQUARE TO ROUND BEND