CEIP Data Definitions

Nest Data

Field	Description	Comments
ixJobSummary	Record Index of job containing this nest	
cTimesCut	The number of times the nest will be cut	
fOutput	Has the nest been output?	
cParts	Total number of parts nested	
cSafeZones	Number of safe zones used on the nest	
ixPlateType	Type of plate used	
dNestingTime	**Total time spent auto-nesting**	
fStrategies	Auto-nesting strategies used	
cMaxTorches	Maximum number of torches on nest	
dMaxTorchSpacing	Maximum torch spacing used on nest	
dLength	Sheet length	
dWidth	Sheet width	
dArea	Sheet area	
ixMaterial	Record index of material used	
dLengthUsed	Length of plate used by nested parts	
dWidthUsed	Width of plate used by nested parts	
dCropUtil	**Nested utilization of parts inside of crop (if one exists)**	**Nested part area / (sheet area – area of remnants saved from nest)**
dPartArea	Total area of nested parts	
dTrueArea	Plate area used by nested parts	True area of sheet. For skeletons, this excludes the area of the cutouts.

Part Data

Field	Description	Comments
ixPart	Part record index	
ixJobSummary	Record Index of job containing this part	
dLength	Part length	
dWidth	Part width	
dArea	Part true area	Area of exterior profile – area of cutouts
cRequired	Number of parts required	For the entire job
cNested	Number of parts nested	For the entire job
ixMaterial	Record index of material used	

fExtShape	Shape of the exterior profile	About 50 known shapes
dExtArea	Area of the exterior profile	
dExtBoundaryDist	The maximum distance of any point inside the profile to the nearest point on the exterior profile	Uses a distance transform with distance measured at 45 degree increments
dExtContainedDist	The maximum unbroken distance between any two points on the exterior profile	The line between the two points doesn't intersect the profile anywhere else
dLgIntArea	Area of the largest interior profile	
dLgIntBoundaryDist	The maximum distance of any point inside the profile to the nearest point on the interior profile	Uses a distance transform with distance measured at 45 degree increments
dLgIntContainedDist	The maximum unbroken distance between any two points on the interior profile	The line between the two points doesn't intersect the profile anywhere else
dLgExtConArea	Area of the largest concavity	
dLgExtConBoundaryDist	The maximum distance of any point inside the concavity to the nearest point on the concavity	Uses a distance transform with distance measured at 45 degree increments
dLgExtConContainedDist	The maximum unbroken distance between any two points on the concavity contour	The line between the two points doesn't intersect the profile anywhere else

Questions