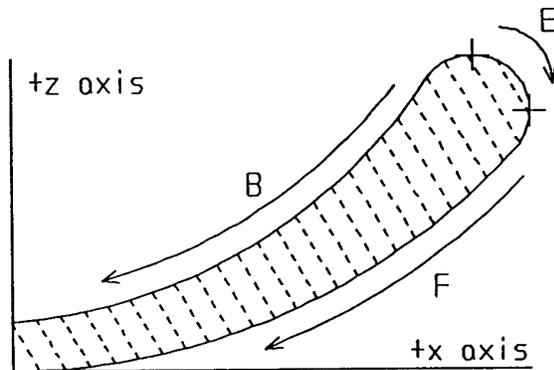


Optoform Job File Format

Optoform 50 job files consist of four sections of ASCII text. The first section contains information relating to file, lens and lathe information. The second section contains a sequential list of surface coordinates (x and z values) that describe the front (convex) lens surface. The third section contains a sequential list of surface coordinate that describe the back (concave) lens surface. And the last sections contains a sequential list of surface coordinates that describe the lens edge.

The job file sections are separated by a single line that contains one text character. The beginning of the second section which contains the points for the front surface begins with a line containing the letter "F". The third section of data that describes the back surface begins with a line containing the letter "B". The fourth section of data that describes the edge surface begins with a line containing the letter "E". And the job file concludes with the line containing the letter "Q".

The sketch at the right shows how the points that describe the front, back and edge surfaces can be divided. All points reside in the first or fourth quadrant of a global coordinate system (positive x and positive or negative z coordinates) with the vertex of the front surface at the origin. The front points are enumerated starting at a user defined coordinate (usually the maximum x point) and continue sequentially to the vertex. The back points begin at a user defined coordinate (usually the maximum z point) and continue sequentially to the vertex of the back surface which has an x value of zero and a positive z value equal to the lens center thickness. The edge points start with the first back surface point and continue to the first front surface point (usually with increasing x values).



Each surface coordinate is represented in a signed two decimal five format (i.e. "X±xx.xxxxxZ±zz.zzzzz"). Spaces may be substituted for positive signs but leading zero's are required (see example next page). The spacing of data points is at the user's discretion, however a uniform ten micron x spacing is often employed. An example of the lens data job file format is shown on the next page.

Example

	Description
RGPJD	job file sub-directory
102	job number
5/13/92	origination date
MCG	originator
50	number of lens in process run
C:	active disk drive
1000	convex lathe number
2000	concave lathe number
RGPASPH	lens design file
o	number of finished convex surfaces
o	number of finished concave surfaces
5/14/92	convex surfaces completion date for
5/14/92	concave surfaces completion date for
-1.00 8.210.226 9.5	convex surface description
RGPASPH	concave surface description
8.00 9.5 RGPASPH	start of front surface description
F	first front surface point
X 04.75164Z 01.52259	second front surface point
X 04.75052Z 01.50927	
X 00.01000Z 00.00001	
X 00.00000Z 00.00000	next to last front surface point
B	vertex of front surface
X 04.72963Z 01.54527	start of back surface description
X 04.71200Z 01.54515	first back surface point
	second back surface point
X 00.01000Z 00.22599	
X 00.00000Z 00.22598	next to last back surface point
E	vertex of back surface
X 04.72963Z 01.54527	start of edge surface description
X 04.74174Z 01.53964	first back surface point
	next edge surface point
X 04.74989Z 01.53170	
X 04.75164Z 01.52259	next to last edge surface point
Q	first front surface point
	end of job file description

