

***DEFINE_MULTI_DRAWBEADS_IGES**

Purpose: This keyword is developed to simplify the creation and definition of draw beads, which previously required the use of many keywords.

Card 1	1	2	3	4	5	6	7	8
Variable	FILENAME							
Type	A80							
Default	none							

Card 2	1	2	3	4	5	6	7	8
Variable	DBID	VID	PID	BLKID	NCUR			
Type	I	I	I	I	I			
Default	none	none	1	1	none			

IGES Curve ID cards. For multiple draw bead curves include as many cards as necessary. Input is terminated at the next (“*”) card.

Card 3	1	2	3	4	5	6	7	8
Variable	CRVID	BFORCE						
Type	I	F						
Default	none	0.0						

VARIABLE	DESCRIPTION
DBID	Draw bead set ID, which may consists many draw bead segments.
VID	Vector ID, as defined by *DEFINE_VECTOR. This vector is used to project the supplied curves to the rigid tool, defined by the parameter PID below.
PID	Part ID of a rigid tool to which the curves are projected and attached.

*DEFINE

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VARIABLE	DESCRIPTION
BLKID	Part ID of the blank.
NCUR	Number of draw bead curve segments (in the IGES file defined by FILENAME) to be defined.
CVRID	IGES curve ID for each segment.
BFORCE	Draw bead force for each segment.

Remarks:

1. This keyword alone can be used to define draw bead forces around a stamping part. The following partial keyword example shows a draw bead set with ID 98, consists of three curves with ID, 12, 23, and 45, each with bead forces of 102.1, 203.3, 142.5 Newton/mm, respectively, are being created for blank with part ID 1. The beads are projected along vector ID 99, and are attached to a rigid tool with part ID 3. The IGES file to define the draw bead curve is “drawbeads3.iges”.

```
*DEFINE_MULTI_DRAWBEADS_IGES
drawbead3.iges
$   DBID      VID      PID      BLKID      NCUR
    98        99        3         1         3
$   CRVID     BFORCE
    12       102.1
    23       203.3
    45       142.5
*define_vector
99,0.0,0.0,0.0,0.0,0.0,1.0
```

Revision information:

This feature is available in LS-DYNA R5 Revision 62840 and later releases.

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***DEFINE**
