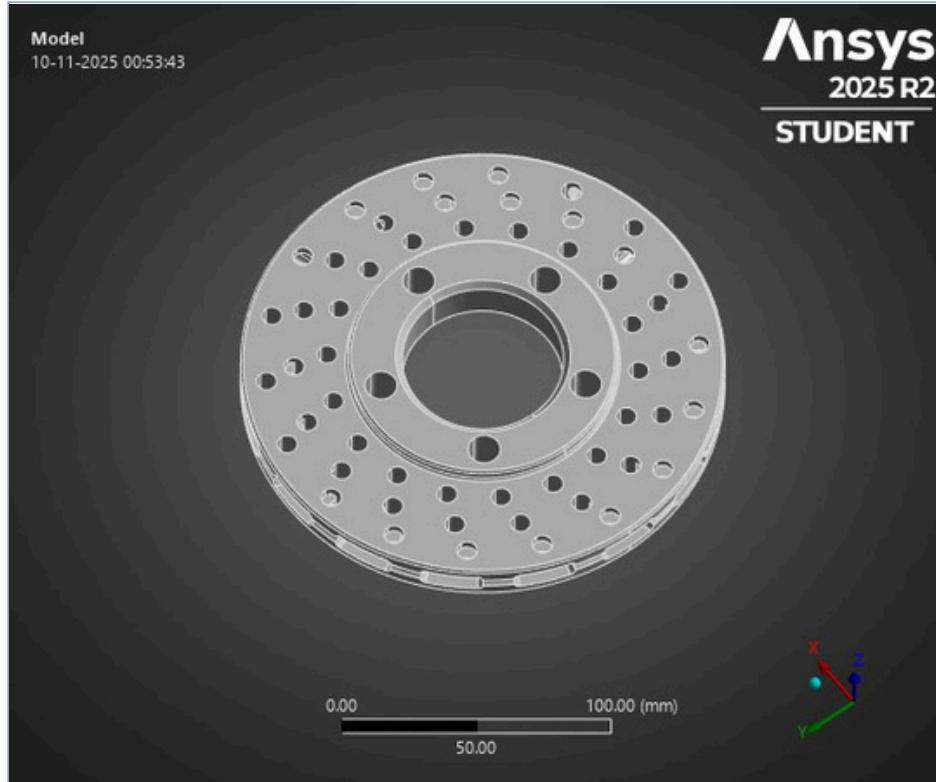




## Project\*

First Saved	Monday, November 10, 2025
Last Saved	Monday, November 10, 2025
Product Version	2025 R2
Save Project Before Solution	No
Save Project After Solution	No



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## Units

TABLE 1

Unit System	Metric (mm,t,N,s,mV, mA) Degrees rad/s Celsius
Angle	Degrees
Rotational Velocity	rad/s
Temperature	Celsius

## Model (A4, B4)

TABLE 2  
Model (A4, B4) > Geometry Imports

Object Name	Geometry Imports
State	Solved

TABLE 3  
Model (A4, B4) > Geometry Imports > Geometry Import (A3, B3)

Object Name	Geometry Import (A3, B3)
State	Solved
Definition	
Source	C:\Users\91905\Downloads\disk break.IGS
Type	Iges
Basic Geometry Options	
Solid Bodies	Yes
Surface Bodies	Yes
Line Bodies	Yes
Parameters	Independent
Parameter Key	
Attributes	Yes
Attribute Key	
Named Selections	Yes
Named Selection Key	
Material Properties	Yes
Advanced Geometry Options	
Use Associativity	Yes
Coordinate Systems	Yes
Coordinate System Key	

Reader Mode Saves Updated File	No
Use Instances	Yes
Smart CAD Update	Yes
Compare Parts On Update	No
Analysis Type	3-D
Mixed Import Resolution	None
Import Facet Quality	Source
Clean Bodies On Import	No
Stitch Surfaces On Import	Program Tolerance
Stitch Tolerance	0.0000001
Decompose Disjoint Geometry	Yes
Enclosure and Symmetry Processing	Yes

## Geometry

TABLE 4  
Model(A4,B4) > Geometry

Object Name	Geometry
State	Fully Defined
Definition	
Source	C:\Users\91905\Downloads\disk break.IGS
Type	Iges
Length Unit	Millimeters
Element Control	Program Controlled
Display Style	Body Color
Bounding Box	
Length X	180. mm
Length Y	180. mm
Length Z	21. mm
Properties	
Volume	2.885e+005 mm <sup>3</sup>
Mass	2.2647e-003 t
Scale Factor Value	1.
Statistics	
Bodies	1
Active Bodies	1
Nodes	39030
Elements	21095
Mesh Metric	None
Update Options	
Assign Default Material	No
Basic Geometry Options	
Solid Bodies Surface Bodies	Yes
Line Bodies Parameters	Yes
	Yes
	Independent
Parameter Key	
Attributes	Yes
Attribute Key	
Named Selections	Yes
Named Selection Key	
Material Properties	Yes
Advanced Geometry Options	
Use Associativity	Yes
Coordinate Systems	Yes
Coordinate System Key	
Reader Mode Saves Updated File	No
Use Instances	Yes
Smart CAD Update	Yes
Compare Parts On Update	No
Analysis Type	3-D
Mixed Import Resolution	None
Import Facet Quality	Source
Clean Bodies On Import	No
Stitch Surfaces On Import	Program Tolerance
Decompose Disjoint Geometry	Yes
ID_GeometryPrefProcessPhysicsDefinition	No
Enclosure and Symmetry Processing	Yes

TABLE 5  
Model(A4,B4)>Geometry > Parts

Object Name	Part1 Solid
-------------	-------------

	State	Meshed
<b>Graphics Properties</b>		
Visible	Yes	
Transparency	1	
<b>Definition</b>		
Suppressed	No	
Stiffness Behavior	Flexible	
Coordinate System	Default Coordinate System	
Reference Temperature	By Environment	
Treatment	None	
<b>Material</b>		
Assignment	Structural Steel	
Nonlinear Effects	Yes	
Thermal Strain Effects	Yes	
<b>Bounding Box</b>		
Length X	180. mm	
Length Y	180. mm	
Length Z	21. mm	
<b>Properties</b>		
Volume	2.885e+005 mm <sup>3</sup>	
Mass	2.2647e-003 t	
Centroid X	-3.1909e-005 mm	
Centroid Y	2.6916e-004 mm	
Centroid Z	0.80092 mm	
Moment of Inertia I <sub>x1</sub>	4.5268 t·mm <sup>2</sup>	
Moment of Inertia I <sub>x2</sub>	4.6235 t·mm <sup>2</sup>	
Moment of Inertia I <sub>x3</sub>	9.0144 t·mm <sup>2</sup>	
<b>Statistics</b>		
Nodes	39030	
Elements	21095	
Mesh Metric	None	
<b>CAD Attributes</b>		
Layer:0	0	
Color:201.209.238		

TABLE 6  
Model (A4, B4) > Materials

Object Name	Materials
State	Fully Defined
<b>Statistics</b>	
Materials	1
Material Assignments	0

## Coordinate Systems

TABLE 7  
Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name	Global Coordinate System	Part1  DE 11	Part1  DE 17	Part1  DE 23	Part1  DE 43	Part1  DE 49	Part1  DE 55	Part1  DE 75	Part1  DE 81	Part1  DE 87	Part1  DE 107
State	Fully Defined										
Type	Definition										
Coordinate System ID	0.	Cartesian									
Coordinate System		Program Controlled									
APDL Name											
Suppressed		No									
<b>Origin</b>											
Origin X	0.	23.394 mm	0.	29.323 mm	83.971 mm	0 mm	88.142 mm	114.87 mm	0.	145.44 mm	109.43 mm
Origin Y	mm	177.7 mm	mm	109.43 mm	145.44 mm	0.	114.87 mm	88.142 mm	mm	83.971 mm	29.323 mm
Origin Z	0.	-11.747 mm	0.	-86.933 mm	-45. mm	mm	-71.402 mm	0.	-45. mm	-86.933 mm	
Define By Location	mm	mm	Global Coordinates								mm
			Defined								
		0.	0.	<b>Directional Vectors</b>						0.	
X Axis Data	[ 1.0.0.0.]	[ 0. 0. 1.]	[ 0.13053 0.99144 0.]	[ -0.25882 -0.96593 0.]	[ 0. 0. 1.]	[ 0.5 0.86603 0.]	[ -0.60876 -0.79335 0.]	[ 0. 0. 1.]	[ 0.79335 0.86603 0.]	[ -0.86603 -0.50. ]	[ 0. 0. 1.]
			[ -0.13053 0.99144]		[ -0.5 -]			[ -0.79335 0.60876]	[ 0.86603 -0.50. ]		[ -0.96593]

Y Axis Data	[ 0. 1. 0.]	-0.99144 0.	-0.13053 0.]	[ 0. 0. 1.]	0.86603 0.]	[ 0.86603 -0.5 0.]	[ 0. 0. 1.]	-0.60876 0.]	-0.79335 0.]	[ 0. 0. 1.]	-0.25882 0.]
Z Axis Data	[ 0. 0. 1.]	[ 0.99144 -0.13053 0.]	[ 0. 0. -1.]	[ - 0.96593 0.25882 0.]	[ 0.86603 -0.5 0.]	[ 0. 0. - 1.]	[ - 0.79335 0.60876 0.]	[ 0.60876 -0.79335 0.]	[ 0. 0. -1.]	[ -0.5 0.86603 0.]	[ 0.25882 -0.96593 0.]
Transfer Properties											
Source											
Read Only											
Axis											
Define By											
Axis											
Define By											
Base Configuration											
Transformed Configuration		[ 23.394 177.7 - 11.747 ]	[ 0. 0. 0.]	[ 29.323 109.43 - 86.933 ]	[ 83.971 145.44 - 45. ]	[ 0. 0. 0.]	[ 88.142 114.87 - 71.402 ]	[ 114.87 88.142 - 71.402 ]	[ 0. 0. 0.]	[ 145.44 83.971 - 45. ]	[ 109.43 29.323 - 86.933 ]

TABLE 8  
Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name	Part1  DE 113	Part1  DE 119	Part1  DE 139	Part1  DE 145	Part1  DE 151	Part1  DE 171	Part1  DE 177	Part1  DE 183	Part1  DE 203	Part1  DE 209	Part1  DE 215
State											
Fully Defined											
Type											
Coordinate System											
APDL Name											
Suppressed											
Define By											
Origin X	0.	177.7 mm	77.583 mm	0.	170.9 mm	11.322 mm	0 mm	67.5 mm	38.971 mm	0.	128.05 mm
Origin Y	mm	23.394 mm	-10.214 mm	mm	-45.794 mm	-14.755 mm	0 mm	-116.91 mm	-22.5 mm	mm	-98.255 mm
Origin Z Location	0.	-11.747 mm	-89.23 mm	0.	23.294 mm	-54.789 mm		77.942 mm	-77.942 mm	0.	54.789 mm
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
Axis	0.	0.	0.	X						0.	
Define By				Fixed Vector							
Axis	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
Define By											
Defined											
X Axis Data	[ 0.96593 0.25882 0.]	[ - 0.99144 -0.13053 0.]	[ 0. 0. 1.]	[ 0.99144 -0.13053 0.]	[ -0.96593 0.25882 0.]	[ 0. 0. 1.]	[ 0.60876 -0.79335 0.]	[ -0.5 0.86603 0.]	[ 0. 0. 1.]	[ 0.86603 -0.5 0.]	[ -0.79335 0.60876 0.]
Y Axis Data	[ 0.25882 -0.96593 0.]	[ 0. 0. 1.]	[ - 0.99144 0.13053 0.]	[ -0.13053 -0.99144 0.]	[ 0. 0. 1.]	[ - 0.60876 0.79335 0.]	[ -0.79335 -0.60876 0.]	[ 0. 0. 1.]	[ - 0.86603 0.5 0.]	[ -0.5 - 0.86603 0.]	[ 0. 0. 1.]
Z Axis Data	[ 0. 0. -1.]	0.13053 0.99144 0.]	0.13053 -0.99144 0.]	[ 0. 0. -1.]	[ 0.25882 0.96593 0.]	[ - 0.79335 -0.60876 0.]	[ 0. 0. -1.]	[ 0.86603 0.5 0.]	[ -0.5 - 0.86603 0.]	[ 0. 0. - 1.]	[ 0.60876 0.79335 0.]
Directional Vectors											
Source											
Read Only											
Transformations											
Base Configuration											
Transformed Configuration	[ 0. 0. 0.]	[ 177.7 23.394 - 11.747 ]	[ 77.583 -10.214 - 89.23 ]	[ 0. 0. 0.]	[ 170.9 - 45.794 23.294 ]	[ 11.322 -14.755 - 54.789 ]	[ 0. 0. 0.]	[ 67.5 - 116.91 77.942 ]	[ 38.971 -22.5 - 77.942 ]	[ 128.05 - 98.255 54.789 ]	

TABLE 9  
Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name	Part1  DE 235	Part1  DE 241	Part1  DE 247	Part1  DE 267	Part1  DE 273	Part1  DE 279	Part1  DE 299	Part1  DE 305	Part1  DE 311	Part1  DE 331	Part1  DE 337
State											

Fully Defined

Definition											
Type	Cartesian										
Coordinate System	Program Controlled										
APDL Name											
Suppressed	No										
Origin											
Define By	Global Coordinates										
Origin X	0.79371 mm	0.	13.281 mm	-0.1005 mm	0 mm	-17.265 mm	-6.0289 mm	0 mm	-21.435 mm	-27.935 mm	0.
Origin Y	-2.9622 mm	mm	-100.88 mm	-0.76338 mm	mm	-64.433 mm	-10.442 mm	mm	-27.935 mm	-21.435 mm	mm
Origin Z	-23.294 mm	0.	89.23 mm	11.747 mm		86.933 mm			71.402 mm		0.
Location	Defined										
	mm										
Principal Axis											
Axis	X										
Define By	Fixed Vector										
Axis	mm										
Define By	Orientation About Principal Axis										
	mm										
Directional Vectors											
X Axis Data	[ 0. 0. 1. ]	[ 0.25882 -0.96593 0.]	[ -0.13053 0.99144 0.]	[ 0. 0. 1. ]	[ -0.99144 0.13053 0.]	[ 0.25882 -0.96593 0.]	[ 0. 0. 1. ]	[ -0.5- 0.86603 0. ]	[ 0.60876 0.79335 0.]	[ 0. 0. 1. ]	[ -0.79335 -0.60876 0.]
Y Axis Data	[ -0.25882 0.96593 -0.25882 0.]	[ -0.96593 -0.25882 0.]	[ 0. 0. 1. ]	[ 0.13053 0.99144 0.]	[ -0.99144 0.13053 0.]	[ 0.25882 -0.96593 0.]	[ 0. 0. 1. ]	[ 0.5 0.86603 0. ]	[ 0.86603 0.79335 0.]	[ 0. 0. 1. ]	[ 0.79335 0.60876 0.]
Z Axis Data	[ -0.96593 -0.25882 0.]	[ 0. 0. -1. ]	[ 0.99144 0.13053 0.]	[ -0.99144 0.13053 0.]	[ 0. 0. -1. ]	[ 0.96593 -0.25882 0.]	[ 0. 0. 1. ]	[ 0.5 0.86603 0. ]	[ 0.79335 -0.60876 0.]	[ 0. 0. -1. ]	[ 0. 0. -1. ]
Transfer Properties											
Source											
Read Only	No										
Transformations											
Base Configuration	Absolute										
Transformed Configuration	[ 0.79371 -2.9622 -23.294 ]	[ 0. 0. 0. ]	[ 13.281 -100.88 89.23 ]	[ -0.1005 -0.76338 11.747 ]	[ 0. 0. 0. ]	[ -17.265 -64.433 86.933 ]	[ -6.0289 -10.442 45. ]	[ 0. 0. 0. ]	[ -21.435 -27.935 71.402 ]	[ -27.935 -21.435 71.402 ]	[ 0. 0. 0. ]

TABLE 10  
Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name	Part1  DE 343	Part1  DE 363	Part1  DE 369	Part1  DE 375	Part1  DE 395	Part1  DE 401	Part1  DE 407	Part1  DE 427	Part1  DE 433	Part1  DE 439	Part1  DE 459
State	Fully Defined										
Type	Definition										
Coordinate System	Cartesian										
APDL Name											
Suppressed	Program Controlled										
Origin	No										
Define By	Global Coordinates										
Origin X	-10.442 mm	-64.433 mm	0. mm	-0.76338 mm	-100.88 mm	0 mm	-2.9622 mm	-98.255 mm	0.	-22.5 mm	-116.91 mm
Origin Y	-6.0289 mm	-17.265 mm	0. mm	-0.1005 mm	13.281 mm	Defined	0.79371 mm	128.05 mm	mm	38.971 mm	67.5 mm
Origin Z	45. mm	86.933 mm	0. mm	11.747 mm	89.23 mm		-23.294 mm	54.789 mm	0.	-77.942 mm	77.942 mm
Location	mm										
Principal Axis											
Axis	X										
Define By	0.										
Axis	Fixed Vector										
Define By	Orientation About Principal Axis										
	mm										
Directional Vectors											
X Axis Data	[ 0.86603 0.5 0. ]	[ 0. 0. 1. ]	[ -0.96593 -0.25882 0.]	[ 0.99144 0.13053 0.]	[ 0. 0. 1. ]	[ -0.99144 0.13053 0.]	[ 0.96593 -0.25882 0.]	[ 0. 0. 1. ]	[ -0.60876 0.79335 0.]	[ 0.5- 0.86603 0. ]	[ 0. 0. 1. ]
			[ 0.96593 0.25882 ]		[ 0.99144 ]	[ 0.13053 ]		[ 0.60876 ]	[ 0.79335 ]	[ 0. 0. ]	[ 0.86603 ]

Y Axis Data	[ 0. 0. 1. ]	0.25882 0.]	0.96593 0.]	[ 0. 0. 1. ]	-0.13053 0.]	0.99144 0.]	[ 0. 0. 1. ]	-0.79335 0.]	0.60876 0.]	1. ]	-0.5 0. ]
Z Axis Data	[ 0.5 - 0.86603 0.]	[-0.25882 0.96593 0.]	[ 0. 0. 1. ]	[ 0.13053 -0.99144 0.]	[ 0.13053 0.99144 0.]	[ 0. 0. -1. ]	[-0.25882 -0.96593 0.]	[ 0.79335 0.60876 0.]	[ 0. 0. -1. ]	[ - 0.86603 -0.5 0. ]	[ 0.5 0.86603 0.]
Transfer Properties											
Source											
Read Only							No				
Transformations											
Base Configuration							Absolute				
Transformed Configuration	[-10.442 -6.0289 45. ]	[-64.433 - 17.265 86.933 ]	[ 0. 0. 0.]	[-0.76338 -0.1005 11.747 ]	[ -100.88 13.281 89.23 ]	[ 0. 0. 0. ]	[-2.9622 0.79371 - 23.294 ]	[ -98.255 128.05 54.789 ]	[ 0. 0. 0. ]	[ -22.5 38.971 - 77.942 ]	[ -116.91 67.5 77.942 ]

**TABLE 11**  
**Model (A4, B4) > Coordinate Systems > Coordinate System**

Object Name	Part1  DE 465	Part1  DE 471	Part1  DE 491	Part1  DE 497	Part1  DE 503	Part1  DE 535	Part1  DE 559	Part1  DE 587	Part1  DE 593	Part1  DE 599	Part1  DE 619
State	Fully Defined										
Type	Definition Cartesian										
Coordinate System	Program Controlled										
APDL Name	No										
Suppressed	Origin										
Define By	Global Coordinates										
Origin X	0. mm	-14.755 mm	-45.794 mm	0.	-10.214 mm 77.583 mm	0. mm	-1.1117e-029 mm	-178.71 mm	0. mm 5.5864e-014 mm	89. mm -7. mm	-89. mm 7. mm
Origin Y	0. mm	11.322 mm	170.9 mm	mm	-89.23 mm	3.8406e-014 mm	-9.0779e-014 mm	7. mm	0. mm 5.5864e-014 mm	-7. mm	7. mm
Origin Z Location	0. mm	-54.789 mm	23.294 mm	0.	mm	-11. mm	26. mm		16. mm	-82. mm	-96. mm
	Defined										
Axis	Principal Axis X										
Define By	Fixed Vector										
Axis	Orientation About Principal Axis Y										
Define By	Fixed Vector										
	Directional Vectors										
X Axis Data	[ -0.86603 0.5 0.]	[ 0.79335 - 0.60876 0.]	[ 0. 0. 1.]	[ -0.25882 0.96593 0.]	[ 0.13053 - 0.99144 0.]	[ 1. 0. 0.]	[ -1. 0. 0.]	[ 0. 0. 1.]	[ 0. 0. 1.]	[ 0. 0. 1.]	[ 0. 0. 1.]
Y Axis Data	[ 0.5 0.86603 0.]	[ 0. 0. 1.]	[ 0.25882 - 0.96593 0.]	[ 0.96593 0.25882 0.]	[ 0. 0. 1.]	[ 0. -1. 0.]	[ 0. 0. 1.]	[ 0. 1. 0.]	[ 1. 0. 0.]	[ -1. 0. 0.]	
Z Axis Data	[ 0. 0. - 1.]	-0.79335 0.]	[ 0.96593 0.25882 0.]	[ 0. 0. -1.]	[ -0.99144 -0.13053 0.]	[ 0. 0. -1.]	[ 0. 1. 0.]	[ 0. 0. -1.]	[ 0. 1. 0.]		
	Transfer Properties										
Source											
Read Only	No										
Base Configuration	Transformations Absolute										
Transformed Configuration	[ 0. 0. 0.]	[ -14.755 11.322 - 54.789 ]	[ -45.794 170.9 23.294 ]	[ 0. 0. 0.]	[ -10.214 77.583 - 89.23 ]	[ 0. 3.8406e- 014 -11.]	[ -1.1117e- 029 - 9.0779e- 014 26.]	[ -178. -7. 7.]	[ 0. 5.5864e- 014 16.]	[ 89. - 7. - 82. ]	[ -89. 7. - 96. ]

TABLE 12  
Model (A4, B4) > Coordinate Systems > Coordinate System

Origin X	5.9862e-030 mm	0. mm	102 mm	-6.8413e-030 mm	[ 51. mm -9. mm -12. mm ]	[ 98. mm -14. mm 26. mm ]	0. mm	49. mm	9.4972e-013 mm	5.0484e-013 mm	4.5655e-013 mm											
Origin Z	-4.8881e-014 mm	7. mm	9. mm	-5.5864e-014 mm					142.34 mm		128.22 mm											
Location	-14. mm	-7. mm	9. mm		16. mm	-42. mm			-37. mm	-8. mm	16. mm											
Defined Principal Axis																						
Axis	X																					
Define By	Fixed Vector																					
Axis	Orientation About Principal Axis																					
Define By	Y																					
Fixed Vector																						
Directional Vectors																						
X Axis Data	[ -1. 0. 0. ]	[ 1. 0. 0. ]	[ -1. 0. 0. ]	[ 1. 0. 0. ]	[ 0. 0. -1. ]		[ -1. 0. 0. ]	[ 0. 0. 1. ]		[ 1. 0. 0. ]												
Y Axis Data	[ 0. 1. 0. ]		[ 0. 0. -1. ]	[ 0. -1. 0. ]	[ 1. 0. 0. ]	[ 0. 0. 1. ]	[ 0. 0. -1. ]	[ 1. 0. 0. ]		[ 0. -1. 0. ]												
Z Axis Data	[ 0. 0. -1. ]	[ 0. 1. 0. ]	[ 0. -1. 0. ]	[ 0. 0. -1. ]	[ 0. -1. 0. ]	[ 0. 1. 0. ]		[ 0. 1. 0. ]		[ 0. 0. -1. ]												
Transfer Properties																						
Source																						
Read Only	No																					
Transformations																						
Base Configuration	Absolute																					
Transformed Configuration	[ 5.9862e-030-4.8881e-014-14. ]	[ 0. 7. -7. ]	[ 102. 9. 9. ]	[ -6.8413e-030-5.5864e-014 16. ]	[ -51. 9. -42. ]	[ -98. -12. 12. ]	[ 0. 9.0779e-014 26. ]	[ 49. -12. -37. ]	[ 9.4972e-013 142.34 -8. ]	[ 5.0484e-013 142.34 16. ]	[ 4.5655e-013 128.22 16. ]											

TABLE 13  
Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name State	Part1  DE 795	Part1  DE 827	Part1  DE 859	Part1  DE 891	Part1  DE 923	Part1  DE 941	Part1  DE 973	Part1  DE 1005	Part1  DE 1037	Part1  DE 1069	Part1  DE 1087											
Fully Defined																						
Definition																						
Type	Cartesian																					
Coordinate System	Program Controlled																					
APDL Name																						
Suppressed	No																					
Origin																						
Define By	Global Coordinates																					
Origin X	-23.477 mm	3.8973e-013 mm	3.8227e-013 mm	4.0216e-013 mm	3.5663e-013 mm	-43.683 mm	3.1931e-013 mm	2.1613e-013 mm	3.4018e-013 mm	2.1528e-013 mm	-58.012 mm											
Origin Z	-5.8785 mm	109.54 mm		107.51 mm		100.97 mm	-19.502 mm	89.861 mm		59.714 mm	61.548 mm											
Location	-8. mm		16. mm	-8. mm	16. mm	-8. mm		16. mm	-8. mm	16. mm	-8. mm											
Defined																						
Principal Axis																						
Axis	X																					
Define By	Fixed Vector																					
Axis	Orientation About Principal Axis																					
Define By	Y																					
Fixed Vector																						
Directional Vectors																						
X Axis Data	[ -0.882 -0.47124 0. ]		[ 1. 0. 0. ]		[ -0.66764 -0.74449 0. ]		[ 1. 0. 0. ]				[ -0.37274 -0.92793 0. ]											
Y Axis Data	[ -0.47124 0.882 0. ]		[ 0. -1. 0. ]		[ -0.74449 0.66764 0. ]		[ 0. -1. 0. ]				[ -0.92793 0.37274 0. ]											
Z Axis Data					[ 0.0. -1. ]																	
Transfer Properties																						
Source																						
Read Only	No																					
Transformations																						
Base Configuration	Absolute																					
Transformed Configuration	[ -23.477 -0.013 0.013 ]	[ 3.8973e-013 0.013 0.013 ]	[ 3.8227e-013 0.013 0.013 ]	[ 4.0216e-013 0.013 0.013 ]	[ 3.5663e-013 0.013 43.683 ]	[ -43.683 0.013 0.013 ]	[ 3.1931e-013 0.013 0.013 ]	[ 2.1613e-013 0.013 0.013 ]	[ 2.4018e-013 0.013 0.013 ]	[ 2.1528e-013 0.013 0.013 ]	[ -58.012 0.012 -0.012 ]											

Configuration	5.8785 - 8.]	109.54	107.51	107.51 - 8.]	100.97	19.502 - 8.]	89.861	59.714	59.714 - 8.]	61.548	39.214 - 8.]
---------------	-----------------	--------	--------	-----------------	--------	-----------------	--------	--------	-----------------	--------	-----------------

TABLE 14  
Model (A4, B4) > Coordinate Systems > Coordinate System

TABLE 15

Axis	Y										
Define By	Fixed Vector										
Directional Vectors											
X Axis Data	[ 1. 0. 0. ]									[ -0.44933 -0.89337 0. ]	
Y Axis Data	[ 0. -1. 0. ]									[ -0.89337 0.44933 0. ]	
Z Axis Data	[0.0.-1.]										
Transfer Properties											
Source											
Read Only	No										
Transformations											
Base											
Configuration	Absolute										
Transformed Configuration	[ 1.3152e-013 -100.29 -8. ]	[ -3.5175e-013 -100.29 16. ]	[ -2.7988e-013 -78.452 16. ]	[ -2.0131e-013 -56.652 16. ]	[ -4.9215e-013 -137.62 16. ]	[ -4.0415e-013 -113.52 16. ]	[ -3.1204e-013 -87.861 16. ]	[ -5.6318e-013 -158.36 16. ]	[ -4.797e-013 -134.9 16. ]	[ -88.308 -54.433 -8. ]	[ -3.8563e-013 -108.47 16. ]

**TABLE 16**  
**Model (A4, B4) > Coordinate Systems > Coordinate System**

Object Name	Part1 DE1829	Part1 DE1855	Part1 DE1891	Part1 DE1927	Part1 DE1959	Part1 DE1991	Part1 DE2017	Part1 DE2049	Part1 DE2067	Part1 DE2099	Part1 DE2131
State											
Type	Fully Defined										
Coordinate System	Definition										
APDL Name	Cartesian										
Suppressed	Program Controlled										
Define By	Origin										
Origin X	Global Coordinates										
Origin Y	-5.6788e-013 mm	-30.499 mm	-47.823 mm	-4.9776e-013 mm	-4.1212e-013 mm	-5.0484e-013 mm	-41.857 mm	6.4557e-014 mm	-4.5655e-013 mm	-3.8973e-013 mm	-3.8227e-013 mm
Origin Z	160. mm	-11.041 mm	-116.33 mm	-140. mm	116. mm	-142.34 mm	-81.227 mm	-128.22 mm	-109.54 mm	-107.51 mm	
Location	16. mm	-8. mm		16. mm			-8. mm		16. mm		
Define By	Defined										
Axis	Principal Axis										
Define By	X										
Axis	Fixed Vector										
Define By	Orientation About Principal Axis										
Axis	Y										
Define By	Fixed Vector										
Directional Vectors											
X Axis Data	[ 1. 0. 0.]	[-0.76828 -0.64012 0. ]	[0.71085 0.70334 0. ]		[ 1. 0. 0.]		[ 0.58035 -0.81437 0. ]		[ 1. 0. 0.]		
Y Axis Data	[ 0. -1. 0.]	[-0.64012 0.76828 0. ]	[-0.70334 0.71085 0. ]		[ 0. -1. 0.]		[ -0.81437 -0.58035 0. ]		[ 0. -1. 0.]		
Z Axis Data	[0.0.-1.]										
Transfer Properties											
Source											
Read Only	No										
Base Configuration	Transformations										
Transformed Configuration							Absolute				
Transformed Configuration	[-5.6788e-013-160. 16.]	[-30.499-11.041- 8.]	[-47.823-116.33- 8.]	[-4.9776e-013-140. 16.]	[-4.1212e-013-116. 16.]	[-5.0484e-013-142.34- 16.]	[-41.857-81.227- 8.]	[ 6.4557e-014-128.22- 8.]	[ -4.5655e-013-128.22- 16.]	[ -3.8973e-013-109.54- 16.]	[ -3.8227e-013-107.51- 16.]

TABLE 17  
Model (A4, B4) > Coordinate Systems > Coordinate System

Definition																			
Type	Cartesian																		
Coordinate System	Program Controlled																		
APDL Name																			
Suppressed	No																		
Define By	Origin																		
Origin X	Global Coordinates																		
Origin Y	-4.0216e-013 mm	1.6144e-015 mm	3.5663e-013 mm	-3.1931e-013 mm	-2.1613e-013 mm	2.4018e-013 mm	-5.2098e-013 mm	-2.1528e-013 mm	-2.1352e-013 mm	-2.0719e-014 mm	4.8475e-014 mm								
Origin Z	Location																		
Location	-107.51 mm	-100.97 mm		-89.861 mm	-59.714 mm		-61.548 mm		-59.348 mm	-4.7156 mm									
	-8. mm		16. mm		-8. mm		16. mm		-8. mm										
	Defined																		
Define By	Principal Axis																		
Axis	X																		
Define By	Fixed Vector																		
Axis	Orientation About Principal Axis																		
Define By	Y																		
Axis	Fixed Vector																		
Define By	Directional Vectors																		
X Axis Data	[ 1. 0. 0. ]																		
Y Axis Data	[ 0. -1. 0. ]																		
Z Axis Data	[ 0. 0. -1. ]																		
Define By	Transfer Properties																		
Source																			
Read Only	No																		
Transformed Configuration	Transformations																		
Transformed Configuration	Absolute																		
Transformed Configuration	[- 4.0216e-013 mm]	[- 015 mm]	[- 013 mm]	[- 3.1931e-013 mm]	[- 89.861 mm]	[- 59.714 mm]	[- 59.714 mm]	[- 61.548 mm]	[- 61.548 mm]	[- 59.348 mm]	[- 4.7156 mm]								
Transformed Configuration	[ 107.51 mm]	[ 100.97 mm]	[ 100.97 mm]	[ 16. ]	[ 16. ]	[ 16. ]	[ 8. ]	[ 8. ]	[ 16. ]	[ 16. ]	[ 8. ]								

TABLE 18

Source												
Read Only	No											
	Transformations											
Base Configuration	Absolute											
Transformed Configuration	<table border="1"> <tr> <td>[ - 1.3621e-013 - 14.699 - 8. ]</td> <td>[ - 5.5732e-014 - 14.699 ]</td> <td>[ - 7.7686e-014 - 21.676 ]</td> <td>[ 1.8091e-013 16. ]</td> <td>[ 3.0653e-013 50.852 ]</td> <td>[ 136.25 80.169 - 8. ]</td> <td>[ 1.1613e-013 16. ]</td> <td>[ 6.2849e-014 16. ]</td> <td>[ 3.5175e-013 100.29 16. ]</td> <td>[ 142. 31.102 - 8. ]</td> <td>[ 2.7988e-013 78.452 16. ]</td> </tr> </table>	[ - 1.3621e-013 - 14.699 - 8. ]	[ - 5.5732e-014 - 14.699 ]	[ - 7.7686e-014 - 21.676 ]	[ 1.8091e-013 16. ]	[ 3.0653e-013 50.852 ]	[ 136.25 80.169 - 8. ]	[ 1.1613e-013 16. ]	[ 6.2849e-014 16. ]	[ 3.5175e-013 100.29 16. ]	[ 142. 31.102 - 8. ]	[ 2.7988e-013 78.452 16. ]
[ - 1.3621e-013 - 14.699 - 8. ]	[ - 5.5732e-014 - 14.699 ]	[ - 7.7686e-014 - 21.676 ]	[ 1.8091e-013 16. ]	[ 3.0653e-013 50.852 ]	[ 136.25 80.169 - 8. ]	[ 1.1613e-013 16. ]	[ 6.2849e-014 16. ]	[ 3.5175e-013 100.29 16. ]	[ 142. 31.102 - 8. ]	[ 2.7988e-013 78.452 16. ]		

TABLE 19  
 Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name	Part1 DE 2821	Part1  DE 2853	Part1 DE 2917	Part1 DE 2949	Part1 DE 2981	Part1 DE	Part1  3013	Part1 DE 3031 3063	Part1  DE 3095	Part1  DE 3121	Part1  DE 3153				
State	Fully Defined														
Type	Definition Cartesian														
Coordinate System	Program Controlled														
APDL Name	No														
Suppressed	Origin														
Define By	Global Coordinates														
Origin X	6.0131e-013 mm	4.9215e-013 mm	4.0415e-013 mm	3.1204e-013 mm	5.6318e-013 mm	7.4782e-013 mm	4.797e-013 mm	3.8563e-013 mm	1.0663e-012 mm	5.6788e-013 mm	2.2691e-012 mm				
Origin Z Location	56.652 mm	137.62 mm	113.52 mm	87.861 mm	158.36 mm	134.9 mm		108.47 mm	160. mm		140. mm				
	16. mm				-8. mm	16. mm		-8. mm	16. mm		-8. mm				
	Defined														
Principal Axis															
Axis	X														
Define By	Fixed Vector														
Orientation About Principal Axis															
Axis	Y														
Define By	Fixed Vector														
Directional Vectors															
X Axis Data	[ 1. 0. 0. ]														
Y Axis Data	[ 0. -1. 0. ]														
Z Axis Data	[ 0. 0. -1. ]														
Transfer Properties															
Source	No														
Read Only	Transformations														
Base Configuration	Absolute														
Transformed Configuration	[ 2.0131e-013 56.652 16. ]	[ 4.9215e-013 137.62 16. ]	[ 4.0415e-013 113.52 16. ]	[ 3.1204e-013 87.861 16. ]	[ 5.6318e-013 158.36 16. ]	[ 7.4782e-013 -8. ]	[ 4.797e-013 16. ]	[ 3.8563e-013 16. ]	[ 1.0663e-012 16. ]	[ 5.6788e-013 16. ]	[ 2.2691e-012 140. - 8. ]				

**TABLE 20**  
**Model (A4, B4) > Coordinate Systems > Coordinate System**

Orientation About Principal Axis															
Axis	Y														
Define By	Fixed Vector														
Directional Vectors															
X Axis Data	[ 1. 0. 0.]	[ -0.71085 0.70334 0. ]	[ 1. 0. 0.]					[ -1.0. 0. ]	[ 1. 0. 0.]	[ 0.9941 0.10846 0. ]					
Y Axis Data	[ 0. -1. 0.]	[ 0.70334 0.71085 0. ]	[ 0. -1. 0.]					[ 0. 1. 0.]	[ 0. -1. 0. ]	[ 0.10846 -0.9941 0. ]					
Z Axis Data	[ 0. 0.-1.]														
Transfer Properties															
Source															
Read Only	No														
Transformations															
Base Configuration	Absolute														
Transformed Configuration	[ 4.9776e-013 140.16.]	[ -57.583 23.673 -8.]	[ 4.1212e-013 116.16.]	[ 2.6881e-013 75.673 26.]	[ -2.623e-015 -1.2994 26.]	[ -2.7104e-013 -76.476 26.]	[ -1.6007e-013 -45.965 26.]	[ 1.6807e-013 48.068 26.]	[ -1.0262e-029 8.3796e-014 24.]	[ 0. -7.3321e-014 21.]	[ -2.7837e-014 -2.6427e-014 8.]				

TABLE 21

Object Name	Part1 DE 3525	Part1  DE 3535	Part1 DE 3545	Part1 DE 3555	Part1 DE 3565	Part1 DE 3575	Part1 DE 3585	Part1 DE 3595	Part1  DE 3605	Part1  DE 3615	Part1  DE 3625
State	Fully Defined										
Type	Definition Cartesian										
Coordinate System	Program Controlled										
APDL Name	No										
Suppressed	Origin										
Define By	Global Coordinates										
Origin X	5.8224e- 014 mm	014 mm	1.1707e- 6.4247e- 5.5308e- 6.2671e- 1.4696e- [5.3654e- 2.2345e- 3.8569e- 1.5905e- [1.9713e- 014 mm	014 mm	014 mm	014 mm	013 mm	014 mm	014 mm	014 mm	014 mm
Origin Z	2.4773e- 014 mm	014 mm	1.1505e- 7.4224e- 2.3103e- 1.2335e- [2.1979e- 2.9985e- [1.6964e- 4.2841e- 2.8122e- [4.8945e- -8. mm	015 mm	014 mm	014 mm	013 mm	014 mm	014 mm	014 mm	014 mm
Location	-4. mm	-8. mm	-4. mm	-8. mm	-4. mm	-8. mm	-4. mm	-8. mm	-4. mm	-8. mm	-8. mm
	Defined										
	Principal Axis										
Axis	X										
Define By	Fixed Vector										
	Orientation About Principal Axis										
Axis	Y										
Define By	Fixed Vector										
	Directional Vectors										
X Axis Data	[ -1. 0. 0.]	[ -0.99144 0.13053 0. ]	[ -0.95994 0.28022 0. ]	[ -0.86603 0.5 0. ]	[ -0.77963 0.62624 0. ]	[ -0.60876 0.79335 0. ]	[ -0.48063 0.87692 0. ]	[ -0.25882 0.96593 0. ]	[ 0.10846 0.9941 0. ]	[ 0.13053 0.99144 0. ]	[ 0.28022 0.95994 0. ]
Y Axis Data	[ 0. 1. 0.]	[ 0.13053 0.99144 0. ]	[ 0.28022 0.95994 0. ]	[ 0.5 0.86603 0. ]	[ 0.62624 0.77963 0. ]	[ 0.60876 0.87692 0. ]	[ 0.48063 0.96593 0. ]	[ 0.25882 0.10846 0. ]	[ 0.09941 -0.13053 0. ]	[ 0.099144 -0.28022 0. ]	[ 0.95994 -0.28022 0. ]
Z Axis Data											
	Transfer Properties										
Source											
Read Only	No										
	Transformations										
Base Configuration	Absolute										
Transformed Configuration	[ 5.8224e- 014 2.4773e- 014-8. ]	[ 1.1707e- 014 1.1505e- 014-4. ]	[ 6.4247e- 014 7.4224e- 015-8. ]	[ 5.5308e- 014 2.3103e- 014-4. ]	[ 6.2671e- 014- 1.2335e- 014-8. ]	[ 1.4696e- 013 2.1979e- 013-4. ]	[ 5.3654e- 014- 2.9985e- 014-8. ]	[ 2.2345e- 014- 1.6964e- 014-4. ]	[ 3.8569e- 014- 4.2841e- 014-8. ]	[ 1.5905e- 014- 2.8122e- 014-4. ]	[ 1.9713e- 014- 4.8945e- 014-8. ]

TABLE 22  
Model (A4, B4) > Coordinate Systems > Coordinate System

System	Program Controlled										
APDL Name											
Suppressed	No										
Define By	Origin										
Origin X	Global Coordinates										
Origin Y	1.7725e-014 mm	-4.3931e-017 mm	-2.0845e-013 mm	-1.7694e-014 mm	1.8225e-015 mm	5.9862e-030 mm	0. mm	3.0468e-014 mm	-4.781e-015 mm	-3.6655e-014 mm	-4.1912e-014 mm
Origin Z	-6.4281e-014 mm	-4.7369e-014 mm	-1.5136e-013 mm	-3.8353e-014 mm	-2.7724e-014 mm	4.8881e-014 mm	4.8881e-014 mm	-8. mm	-2.7239e-014 mm	-4.412e-015 mm	-1.0535e-015 mm
Location		-8. mm	-4. mm	-8. mm	4. mm		14. mm		-4. mm	-8. mm	-4. mm
Define By	Defined										
Axis	Principal Axis										
Define By	X										
Axis	Fixed Vector										
Define By	Orientation About Principal Axis										
Axis	Y										
Define By	Fixed Vector										
Define By	Directional Vectors										
X Axis Data	[ 0.5 0.86603 0. ]	[ 0.62624 0.77963 0. ]	[ 0.79335 0.60876 0. ]	[ 0.87692 0.48063 0. ]	[ 0.96593 0.25882 0. ]	[ -1.0. 0. ]	[ 1.0.0. ]	[ 0.99144 -0.13053 0. ]	[ 0.95994 -0.28022 0. ]	[ 0.86603 -0.50.0. ]	
Y Axis Data	[ 0.86603 -0.50.0. ]	[ 0.77963 -0.62624 0. ]	[ 0.60876 -0.79335 0. ]	[ 0.48063 -0.87692 0. ]	[ 0.25882- 0.96593 0. ]	[ 0.1.0. ]	[ 0.-1.0. ]	[ -0.13053 -0.99144 0. ]	[ -0.28022 -0.95994 0. ]	[ -0.5- 0.86603 0. ]	
Z Axis Data							[ 0.0.-1. ]				
Source	Transfer Properties										
Read Only	No										
Base Configuration	Transformations										
Transformed Configuration	[ - 1.7725e-014 - 6.4281e-014 - 4.7369e-014 - 8. ]	[ - 4.3931e-017 - 0.13 - 1.5136e-013 - 8.3535e-014 - 8. ]	[ - 2.0845e-013 - 0.1 - 1.5136e-013 - 8.3535e-014 - 8. ]	[ - 1.7694e-014 - 0.14 - 1.5136e-013 - 8.3535e-014 - 8. ]	[ - 1.8225e-015 - 0.14 - 1.5136e-013 - 8.3535e-014 - 8. ]	[ - 5.9862e-030 - 4.8881e-014 - 4.8881e-014 - 14. ]	[ 0.- 4.8881e-014 - 4.8881e-014 - 14. ]	[ - 3.0468e-014 - 2.4773e-014 - 2.4773e-014 - 8. ]	[ - 4.781e-015 - 2.7239e-014 - 2.7239e-014 - 4. ]	[ - 3.6655e-014 - 4.412e-015 - 4.412e-015 - 8. ]	[ - 4.1912e-014 - 1.0535e-015 - 1.0535e-015 - 4. ]

TABLE 23

Source											
Read Only	No										
	Transformations										
Base Configuration	Absolute										
Transformed Configuration	[-3.5079e-1.5345e-014-8.]	[ -1.3493e-013 ]	[ 2.6062 ]	[ -4.8753e-014-4.]	[ -1.0977e-014 ]	[ -2.2839e-014-4.]	[ 7.8787e-015 ]	[ 4.3248e-015 ]	[ 2.7636e-015 ]	[ 1.9643e-014 ]	[ 4.5286e-014 ]
	1.8508e-013-4.]	3.2995e-014-8.]	2.4202e-014-4.]	4.5851e-014-8.]	1.6424e-014-4.]	5.1956e-014-8.]	3.294e-014-4.]	5.038e-014-8.]	1.3054e-013-4.]	1.3054e-013-4.]	4.1363e-014-8.]

TABLE 24  
Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name	Part1  DE 4173	Part1  DE 4183	Part1  DE 4211	Part1  DE 4217	Part1  DE 4325	Part1  DE 4365	Part1  DE 4405	Part1  DE 4421	Part1  DE 4439	Part1  DE 4515	Part1  DE 4533								
State	Fully Defined																		
Type	Definition																		
Coordinate System	Cartesian																		
APDL Name	Program Controlled																		
Suppressed	No																		
Define By	Origin																		
Origin X	Global Coordinates																		
-5.4152e-015 mm	\$5.5429e-014 mm	-83.971 mm	-22.5 mm	-5.4947e-014 mm	6.0281e-014 mm	-5.9699e-014 mm	-14.755 mm	-27.935 mm	-22.5 mm	-6.0289 mm									
Origin Z	Location																		
1.3374e-014 mm	2.9437e-014 mm	145.44 mm	38.971 mm	2.0154e-014 mm	4.3629e-015 mm	-1.2436e-014 mm	-11.322 mm	-21.435 mm	-38.971 mm	-10.442 mm									
-4. mm	-8. mm	-45. mm	-77.942 mm	8. mm			54.789 mm	-71.402 mm	77.942 mm	-45. mm									
Define By	Defined																		
Axis	Principal Axis																		
Define By	X																		
Axis	Fixed Vector																		
Define By	Orientation About Principal Axis																		
Axis	Y																		
Define By	Fixed Vector																		
Define By	Directional Vectors																		
X Axis Data	[-0.96593 -0.25882 0.]	[-0.9941 -0.10846 0.]	[ 0.9 - [0.5 - 0.5 - ]]	[ 0.5 - 0.86603 0.]	[-0.47505 0.87996 0.]	[-0.77564 0.63118 0.]	[-0.95814 0.28631 0.]	[ 0.79335 0.60876 0.]	[ 0.0 -1.]	[ 0.5 0.86603 0.]	[ 0.9 - 0.5 - ]								
Y Axis Data	[ 0.25882 0.96593 0.]	[-0.10846 0.9941 0.]	0.86603	[ 0.0 1.]	[ 0.87996 0.47505 0.]	[ 0.63118 0.77564 0.]	[ 0.28631 0.95814 0.]	[ 0.0 -1.]	[ 0.79335 0.60876 0.]	[ 0.0 1.]	[ 0.5 0.86603 0.]								
Z Axis Data	[ 0.0 -1.]		[-0.86603 -0.5 0.]		[ 0.0 -1.]			[ 0.60876 -0.79335 0.]	[ 0.86603 -0.5 0.]										
Transfer Properties																			
Source																			
Read Only	No																		
	Transformations																		
Base Configuration	Absolute																		
Transformed Configuration	[-5.4152e-1.3374e-014-4.]	[ 5.5429e-014 2.9437e-014-8.]	[ -83.971 145.44 ]	[ -22.5 -38.971 -45.]	[ -5.4947e-014 2.0154e-014 8.]	[ -6.0281e-014 4.3629e-015 8.]	[ -5.9699e-014 -1.2436e-014 54.789 ]	[ -14.755 -11.322 54.789 ]	[ -27.935 -21.435 -71.402 ]	[ -22.5 -38.971 -77.942 ]	[ -6.0289 -10.442 -45.]								

TABLE 25  
Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name	Part1  DE 4553	Part1  DE 4559	Part1  DE 4685	Part1  DE 4691	Part1  DE 4799	Part1  DE 4839	Part1  DE 4879	Part1  DE 4895	Part1  DE 4913	Part1  DE 4989	Part1  DE 5007
State	Fully Defined										
Type	Definition										
Coordinate System	Cartesian										
APDL Name	Program Controlled										
Suppressed	No										
Define By	Origin										
Origin X	Global Coordinates										
0.1005 mm	13.281 mm	6.0289 mm	67.5 mm	2.7336e-014 mm	3.2671e-014 mm	3.2089e-014 mm	128.05 mm	114.87 mm	67.5 mm	83.971 mm	
-0.76338 mm	-100.88 mm	-10.442 mm	-116.91 mm	-2.2989e-014 mm	-7.198e-015 mm	9.6005e-015 mm	98.255 mm	88.142 mm	116.91 mm	145.44 mm	
11.747	89.23		77.942				-54.789	71.402	-77.942		

Origin Z Location	mm	mm	45. mm	mm		8. mm Defined	mm	mm	mm	45. mm						
Principal Axis																
Axis Define By	X Fixed Vector															
Orientation About Principal Axis																
Axis Define By	Y Fixed Vector															
Directional Vectors																
X Axis Data	[0. 0. - 1. -] [0.99144 0.]	[0.13053 0.99144 0.]	[0. 0. -] [0. 0. -] [0. ]	[0.5 0.]	[0.47505 - 0.87996 0.]	[0.77564 - 0.63118 0.]	[0.95814 - 0.28631 0.]	[0.79335 - 0.60876 0.]	[0. 0. -] [-] [0. ]	[0.5 - 0.86603 0.]	[0. 0. -] [0. 0. -] [0. ]					
Y Axis Data	[0.13053 0.99144 0.]	[0. 0. 1.]	[0.5 0.86603 0.]	[0. 0. 1. -] [0. ]	[-0.87996 - 0.47505 0.]	[-0.63118 - 0.77564 0.]	0.95814 0.]	[0. 0. 1.]	[-0.79335 -0.60876 0.]	[0. 0. 1. -] [0. 0. -] [0. ]	[-0.5 - 0.86603 0.]					
Z Axis Data	[0.99144 0.13053 0.]	[0. 0. 1.]	[0.86603 0.5 0. -] [0. ]	[0. 0. -1.]			[0. -0.60876 0.79335 0.]	[-0.60876 0.79335 0.]			[-0.86603 0.5 0. -] [0. 0. -] [0. ]					
Transfer Properties																
Source																
Read Only	No															
Transformations																
Base Configuration	Absolute															
Transformed Configuration	[0.1005 - 0.79338 0.1747]	[13.281 -100.88 89.23]	[6.0289 -10.442 45.]	[67.5 - 116.91 77.942]	[2.7336e- 014 - 2.2989e- 014 8.]	[3.2671e- 014 - 7.198e-015 8.]	[3.2089e- 014 9.6005e- 015 8.]	[128.05 98.255 - 54.789]	[114.87 88.142 - 71.402]	[67.5 116.91 - 77.942]	[83.971 145.44 45.]					

TABLE 26  
Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name State	Part1 DE 5027	Part1 DE 5033	Part1  DE 5169	Part1  DE 5175	Part1  DE 5187	Part1  DE 5193	Part1  DE 5205	Part1  DE 5211	Part1  DE 5223	Part1  DE 5229	Part1  DE 5241											
Fully Defined																						
Definition																						
Type	Cartesian																					
Coordinate System	Program Controlled																					
APDL Name																						
Suppressed	No																					
Origin																						
Global Coordinates																						
Origin X	-23.394 mm	-10.214 mm	-6.8413e- 030 mm	0. mm	-76.735 mm	5.0484e- 013 mm	-57.054 mm	4.5655e- 013 mm	-38.212 mm	3.8973e- 013 mm	-120.79 mm											
Origin Y	77.7 mm	77.583 mm	-5.5864e- 014 mm	5.5864e- 014 mm	-2.1594e- 013 mm	142.34	-1.479e- 013 mm	128.22	-7.8779e- 014 mm	109.54	-3.6398e- 013 mm											
Origin Z Location	-11.747 mm	-89.23 mm	16. mm																			
Defined																						
Principal Axis																						
Axis	X																					
Define By	Fixed Vector																					
Orientation About Principal Axis																						
Axis	Y																					
Define By	Fixed Vector																					
Directional Vectors																						
X Axis Data	[0. 0. -1.]	[0.13053 -0.99144 0.]	[1. 0. 0.]	[-1. 0. 0.]		[1. 0. 0.]	[0. 1. 0. -] [0. 1. -] [0. ]	[1. 0. 0.]	[1. 0. 0. -] [1. 0. -] [1. ]	[1. 0. 0. -] [1. 0. -] [1. ]	[1. 0. 0. -] [1. 0. -] [1. ]											
Y Axis Data	[0.13053 -0.99144 0.]	[0. 0. 1.]	[0. -1. 0.]	[0. 1. 0.]		[0. -1. 0.]	[0. ]	[0. -1. 0.]	[0. 1. 0.]	[0. -1. 0.]	[0. 1. 0.]											
Z Axis Data	[0.99144 -0.13053 0.]	[0. 0. -1.]																				
Transfer Properties																						
Source																						
Read Only	No																					
Transformations																						
Base Configuration	Absolute																					
Transformed Configuration	[23.394 177.7 - 11.747]	[ -10.214 77.583 - 89.23]	[ -6.8413e- 030 - 5.5864e- 014 16.]	[ 0. 5.5864e- 014 16.]	[ -76.735 -2.1594e- 013 16.]	[ 5.0484e- 013 142.34]	[ -57.054 - 1.479e- 013 013]	[ 4.5655e- 013 128.22]	[ -38.212 -7.8779e- 014 16.]	[ 3.8973e- 013 109.54]	[ -120.79 -3.6398e- 013 16.]											

| 014 16. ] | 16. ] 16. ] 16. ] 16. ]

TABLE 27

Object Name	Part1 DE 5247	Part1 DE 5259	Part1 DE 5265	Part1 DE 5277	Part1 DE 5283	Part1 DE 5295	Part1 DE 5301	Part1 DE 5313	Part1 DE 5319	Part1 DE 5331	Part1 DE 5337
State	Fully Defined										
Type	Cartesian										
Coordinate System	Program Controlled										
APDL Name											
Suppressed	No										
Origin											
Define By	Global Coordinates										
Origin X	3.8227e-013 mm	-97.467 mm	3.5663e-013 mm	-73.371 mm	3.1931e-013 mm	-150.28 mm	2.1613e-013 mm	-126.12 mm	2.1528e-013 mm	-99.681 mm	2.1352e-013 mm
Origin Y	107.51 mm	-	100.97 mm	-	89.861 mm	-	59.714 mm	-	61.548 mm	-	59.348 mm
Origin Z		2.8438e-013 mm		1.9939e-013 mm		4.6927e-013 mm		3.8388e-013 mm	2.9291e-013 mm		
Location	Defined										
Principal Axis											
Axis	X										
Define By	Fixed Vector										
Orientation About Principal Axis											
Axis	Y										
Define By	Fixed Vector										
Directional Vectors											
X Axis Data	[ 1. 0. 0.]	[ -1. 0. 0.]	[ 1. 0. 0.]	[ -1. 0. 0.]	[ 1. 0. 0.]	[ -1. 0. 0.]	[ 1. 0. 0.]	[ -1. 0. 0.]	[ 1. 0. 0.]	[ -1. 0. 0.]	[ 1. 0. 0.]
Y Axis Data	[ 0. -1. 0.]	[ 0. 1. 0.]	[ 0. -1. 0.]	[ 0. 1. 0.]	[ 0. -1. 0.]	[ 0. 1. 0.]	[ 0. -1. 0.]	[ 0. 1. 0.]	[ 0. -1. 0.]	[ 0. 1. 0.]	[ 0. -1. 0.]
Z Axis Data	[ 0. 0. -1.]										
Transfer Properties											
Source											
Read Only	No										
Transformations											
Base Configuration	Absolute										
Transformed Configuration	[ 3.8227e-013 107.51 16.]	[ -97.467 -	[ 3.5663e-013 2.8438e-013 16.]	[ -73.371 100.97 16.]	[ 3.1931e-013 89.861 16.]	[ -150.28 4.6927e-013 16.]	[ 2.1613e-013 59.714 16.]	[ -126.12 3.8388e-013 16.]	[ 2.1528e-013 61.548 16.]	[ -99.681 2.9291e-013 16.]	[ 2.1352e-013 59.348 16.]

**TABLE 28**  
**Model (A4, B4) > Coordinate Systems > Coordinate System**

Transfer Properties											
Source											
Read Only	No										
Transformations											
Base Configuration	Absolute										
Transformed Configuration	[ -161.64 -5.087e-013 16.]	[ 2.0719e-014 4.7156 16.]	[ -139.57 -4.3092e-013 16.]	[ 5.5732e-014 14.699 16.]	[ -113.97 -3.4236e-013 16.]	[ 7.7686e-014 21676 16.]	[ -153.5 -4.8139e-013 16.]	[ -1.8091e-013 -50.852 16.]	[ -136.18 -4.194e-013 16.]	[ 1.1613e-013 -33.922 16.]	[ -114.51 -3.444e-013 16.]

**TABLE 29**  
**Model (A4, B4) > Coordinate Systems > Coordinate System**

Object Name	Part1 DE 5445	Part1 DE 5457	Part1 DE 5463	Part1 DE 5475	Part1 DE 5481	Part1 DE 5493	Part1 DE 5499	Part1 DE 5511	Part1 DE 5517	Part1 DE 5529	Part1 DE 5535
State	Fully Defined										
Type	Definition										
Coordinate System	Cartesian										
APDL Name	Program Controlled										
Suppressed	No										
Define By	Origin										
Origin X	Global Coordinates										
Origin Y	-6.2849e-16.14 mm	-126.85 mm	-3.5175e-013 mm	-116.36 mm	-2.7988e-013 mm	101.24-2.0131e-013 mm	-84.902 mm	-4.9215e-013 mm	-82.514 mm	-4.0415e-013 mm	
Origin Z	-18.611 mm	-3.855e-013 mm	-100.29 mm	-3.4695e-013 mm	-78.452 mm	-2.9683e-013 mm	-56.652 mm	-2.4522e-013 mm	-137.62 mm	-2.2854e-013 mm	-113.52 mm
Location	16. mm										
	Defined										
Define By	Principal Axis										
Axis	X										
Define By	Fixed Vector										
Axis	Orientation About Principal Axis										
Define By	Y										
Axis	Fixed Vector										
Define By	Directional Vectors										
X Axis Data	[ 1. 0. 0.]	[ -1. 0. 0.]	[ 0. 1. 0.]	[ -1. 0. 0.]	[ 1. 0. 0.]	[ -1. 0. 0.]	[ 1. 0. 0.]	[ -1. 0. 0.]	[ 1. 0. 0.]	[ -1. 0. 0.]	[ 1. 0. 0.]
Y Axis Data	[ 0. -1. 0.]	[ 0. 1. 0.]		[ 0. 1. 0.]	[ 0. -1. 0.]	[ 0. 1. 0.]	[ 0. -1. 0.]	[ 0. 1. 0.]	[ 0. -1. 0.]	[ 0. 1. 0.]	[ 0. -1. 0.]
Z Axis Data							[ 0. 0. -1.]				
	Transfer Properties										
Source											
Read Only	No										
	Transformations										
Base Configuration	Absolute										
Transformed Configuration	[ -6.2849e-18.611 mm]	[ -126.85 3.855e-013 mm]	[ -3.5175e-100.29 16.]	[ -116.36 -3.4695e-013 16.]	[ -2.7988e-013 -78.452 16.]	[ -101.24 -2.9683e-013 16.]	[ -2.0131e-013 -56.652 16.]	[ -84.902 -2.4522e-013 16.]	[ -4.9215e-013 -137.62 16.]	[ -82.514 -2.2854e-013 16.]	[ -4.0415e-013 -113.52 16.]

TABLE 30  
Model (A4, B4) > Coordinate Systems > Coordinate System

Axis	X										
Define By	Fixed Vector										
Orientation About Principal Axis											
Axis	Y										
Define By	Fixed Vector										
Directional Vectors											
X Axis Data	[ -1.0. 0.0.]	[ 0.0.0.]	[ -1.0.0.]	[ 1.0.0.]	[ -1.0.0.]	[ 1.0. 0.0.]	[ -1.0.0.]	[ 1.0.0.]	[ -1.0.0.]	[ 1.0.0.]	[ -1.0.0.]
Z Axis Data	[ 0.1. 0.0.]		[ 0.1.0.]	[ 0.-1.0.]	[ 0.1.0.]	[ 0.-1. 0.0.]	[ 0.1.0.]	[ 0.-1.0.]	[ 0.1.0.]	[ 0.-1. 0.0.]	[ 0.1.0.]
	[ 0.0.-1.]										
Transfer Properties											
Source											
Read Only	No										
Transformations											
Base Configuration	Absolute										
Transformed Configuration	[ -75.755 -2.091e- 013 16.]	[ - 3.1204e- 013 - 87.861 16.]	[ -32.712 -6.1187e- 014 16.]	[ - 5.6318e- 013 - 158.36 16.]	[ -38.712 -7.5327e- 014 16.]	[ - 4.797e- 013 - 134.9 16.]	[ -41.136 -8.5321e- 014 16.]	[ - 3.8563e- 013 - 108.47 16.]	[ 23.424 -1.3652e- 013 16.]	[ - 5.6788e- 013 -160. 16.]	[ 9.7599 -9.6614e- 014 16.]

TABLE 31

Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name State	Part1 DE 5643 DE	Part1  5655 5661	Part1 DE 5673	Part1 DE 5679	Part1 DE 5691	Part1 DE 5697	Part1 DE 5709	Part1  DE 5715	Part1  DE 5727	Part1  DE 5733
Fully Defined										
Type	Definition									
Coordinate System	Cartesian									
APDL Name	Program Controlled									
Suppressed	No									
Origin										
Define By	Global Coordinates									
Origin X	-4.9776e-013 mm	-1.556 mm	-4.1212e-013 mm	76.735 mm	-5.0484e-013 mm	\$7.054 -4.5655e-013 mm	38.212 mm	-3.8973e-013 mm	120.79 mm	-3.8227e-013 mm
Origin Y	40. mm	5.229e-014 mm	-116. mm	3.2837e-013 mm	-142.34 mm	2.6033e-013 mm	-128.22 mm	1.9121e-013 mm	-109.54 mm	4.7641e-013 mm
Origin Z	16. mm									
Location	Defined									
Principal Axis										
Axis	X									
Define By	Fixed Vector									
Orientation About Principal Axis										
Axis	Y									
Define By	Fixed Vector									
Directional Vectors										
X Axis Data	[ 1. 0. 0.]	[ -1. 0. 0.]	[ 1. 0. 0.]	[ 0. 0. 0.]	[ 1. 0. 0.]	[ -1. 0. 0.]	[ 1. 0. 0.]	[ -1. 0. 0.]	[ 1. 0. 0.]	[ -1. 0. 0.]
Y Axis Data										
Z Axis Data	[ 0. -1. 0.]	[ 0. 1. 0.]	[ 0. -1. 0.]		[ 0. -1. 0.]	[ 0. 1. 0.]	[ 0. -1. 0.]	[ 0. 1. 0.]	[ 0. -1. 0.]	[ 0. 1. 0.]
	[ 0. 0. -1.]									
Transfer Properties										
Source										
Read Only	No									
Transformations										
Base Configuration	Absolute									
Transformed Configuration	[ -4.9776e-013 -140. 16.]	[ -1.556 5.229e-014 16.]	[ -4.1212e-013 -116. 16.]	[ 76.735 3.2837e-013 16.]	[ -5.0484e-013 -142.34 16.]	[ \$7.054 2.6033e-013 -128.22 16.]	[ 38.212 1.9121e-013 -109.54 16.]	[ -3.8973e-013 1.20.79 109.54 16.]	[ 120.79 4.7641e-013 -107.51 16.]	[ -3.8227e-013 013 107.51 16.]

TABLE 32  
Model (A4, B4) > Coordinate Systems > Coordinate System

APDL Name											
Suppressed	No										
Define By	Origin										
Origin X	Global Coordinates										
Origin Y	97.467 mm	-3.5663e- 013 mm	73.371 mm	-3.1931e- 013 mm	150.28 mm	-2.1613e- 013 mm	126.12 mm	-2.1528e- 013 mm	99.681 mm	-2.1352e- 013 mm	161.64 mm
Origin Z Location	3.9682e- 013 mm	-100.97 mm	3.1183e- 013 mm	-89.861 mm	5.817e- 013 mm	-59.714 mm	4.9631e- 013 mm	-61.548 mm	4.0534e- 013 mm	-59.348 mm	6.2027e- 013 mm
	16. mm										
	Defined										
	Principal Axis										
Axis	X										
Define By	Fixed Vector										
Axis	Orientation About Principal Axis										
Define By	Y										
	Fixed Vector										
	Directional Vectors										
X Axis Data	[ -1.0. 0.]	[ 1.0. 0.]	[ -1.0. 0.]	[ 1.0. 0.]	[ -1.0. 0.]	[ 1.0. 0.]	[ -1.0. 0.]	[ 1.0. 0.]	[ -1.0. 0.]	[ 1.0. 0.]	[ -1.0. 0.]
Y Axis Data	[ 0.1. 0.]	[ 0.-1. 0.]	[ 0.1. 0.]	[ 0.-1. 0.]	[ 0.1. 0.]	[ 0.-1. 0.]	[ 0.1. 0.]	[ 0.-1. 0.]	[ 0.1. 0.]	[ 0.-1. 0.]	[ 0.1. 0.]
Z Axis Data											[ 0.0.-1.]
	Transfer Properties										
Source											
Read Only	No										
	Transformations										
Base Configuration	Absolute										
Transformed Configuration	[ 97.467 3.9682e- 013 ]	[ -3.5663e- 013 - 100.97 16. ]	[ 73.371 3.1183e- 013 16. ]	[ -3.1931e- 013 - 89.861 16. ]	[ 150.28 5.817e- 013 16. ]	[ -2.1613e- 013 - 59.714 16. ]	[ 126.12 4.9631e- 013 16. ]	[ -2.1528e- 013 - 61.548 16. ]	[ 99.681 4.0534e- 013 16. ]	[ -2.1352e- 013 - 59.348 16. ]	[ 161.64 6.2027e- 013 16. ]

TABLE 33  
Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name	Part1 DE	Part1  DE	Part1 DE	Part1 DE	Part1 DE	Part1 DE	Part1 DE	Part1 DE	Part1 DE	Part1 DE	Part1 DE
State	5841	5853	5859	5871	5877	5889	5895	5907	5913	5925	5931
	Fully Defined										
	Definition										
Type	Cartesian										
Coordinate System	Program Controlled										
APDL Name											
Suppressed	No										
Define By	Origin										
Origin X	[ 2.0719e- 014 ]	[ 139.57 mm	[ -5.5732e- 014 mm	[ 113.97 mm	[ -7.7686e- 014 mm	[ 153.5 mm	[ 1.8091e- 013 mm	[ 136.18 mm	[ 1.1613e- 013 mm	[ 114.51 mm	[ 6.2849e- 014 mm
Origin Z Location	[ -4.7156 mm	[ 5.4336e- 013 mm	[ -14.699 mm	[ 4.548e- 013 mm	[ -21.676 mm	[ 5.9382e- 013 mm	[ 50.852 mm	[ 5.3183e- 013 mm	[ 33.922 mm	[ 4.5683e- 013 mm	[ 18.611 mm
	16. mm										
	Defined										
	Principal Axis										
Axis	X										
Define By	Fixed Vector										
Axis	Orientation About Principal Axis										
Define By	Y										
	Fixed Vector										
	Directional Vectors										
X Axis Data	[ 1.0. 0.]	[ -1.0. 0.]	[ 1.0. 0.]	[ -1.0. 0.]	[ 1.0. 0.]	[ -1.0. 0.]	[ 0.0. 1.]	[ -1.0. 0.]	[ 1.0. 0.]	[ -1.0. 0.]	[ 1.0. 0.]
Y Axis Data	[ 0.-1. 0.]	[ 0.1. 0.]	[ 0.-1. 0.]	[ 0.1. 0.]	[ 0.-1. 0.]	[ 0.1. 0.]			[ 0.1. 0.]	[ 0.-1. 0.]	[ 0.1. 0.]
Z Axis Data											[ 0.0.-1.]
	Transfer Properties										
Source											
Read Only	No										
	Transformations										
Base Configuration	Absolute										
Transformed Configuration	[ -2.0719e- 4.7156 ]	[ 139.57 5.4336e- 013 16. ]	[ -5.5732e- 14.699 ]	[ 113.97 4.548e- 013 16. ]	[ -7.7686e- 21.676 ]	[ 153.5 5.9382e- 013 16. ]	[ 1.8091e- 16. ]	[ 136.18 5.3183e- 013 16. ]	[ 1.1613e- 33.922 ]	[ 114.51 4.5683e- 013 16. ]	[ 6.2849e- 18.611 ]

16. ] | 16. ] | 16. ] | | | | | | | |

TABLE 34

Object Name State	Part1  DE5943	Part1  DE 5949	Part1  DE 5961	Part1 DE 5967	Part1  DE 5979	Part1 DE 5985	Part1  DE 5997	Part1 DE 6003	Part1  DE 6015	Part1  DE 6021	Part1  DE 6033
	Fully Defined										
Type	Definition										
Coordinate System	Cartesian										
APDL Name											
Suppressed	Program Controlled										
	No										
Define By	Origin										
	Global Coordinates										
Origin X Location	126.85 mm	3.5175e- 013 mm	116.36 mm	2.7988e- 013 mm	101.24 mm	2.0131e- 013 mm	84.902 mm	4.9215e- 013 mm	82.514 mm	4.0415e- 013 mm	75.755 mm
Origin Z Location	4.9793e- 013 mm	100.29 mm	4.5938e- 013 mm	78.452 mm	4.0927e- 013 mm	56.652 mm	3.5765e- 013 mm	137.62 mm	3.4097e- 013 mm	113.52 mm	3.2153e- 013 mm
	16. mm										
	Defined										
Define By	Principal Axis										
Axis	X										
Define By	Fixed Vector										
	Orientation About Principal Axis										
Axis	Y										
Define By	Fixed Vector										
	Directional Vectors										
X Axis Data	[ -1.0. 0.]	[ 1.0.0.]	[ -1.0. 0.]	[ 1.0.0.]	[ -1.0. 0.]	[ 1.0.0.]	[ -1.0. 0.]	[ 1.0.0.]	[ -1.0. 0.]	[ 1.0.0.]	[ -1.0. 0.]
Y Axis Data	[ 0.1.0.]	[ 0.-1.0.]	[ 0.1.0.]	[ 0.-1.0.]	[ 0.1.0.]	[ 0.-1.0.]	[ 0.1.0.]	[ 0.-1.0.]	[ 0.1.0.]	[ 0.-1.0.]	[ 0.1.0.]
Z Axis Data	[ 0.0.1.]	[ 0.0.1.]	[ 0.0.1.]	[ 0.0.1.]	[ 0.0.1.]	[ 0.0.1.]	[ 0.0.1.]	[ 0.0.1.]	[ 0.0.1.]	[ 0.0.1.]	[ 0.0.1.]
	Transfer Properties										
Source											
Read Only	No										
	Transformations										
Base Configuration	Absolute										
Transformed Configuration	[ 126.85 4.9793e- 013 16.]	[ 3.5175e- 013 100.29 16.]	[ 116.36 4.5938e- 013 16.]	[ 2.7988e- 013 78.452 16.]	[ 101.24 4.0927e- 013 16.]	[ 2.0131e- 013 56.652 16.]	[ 84.902 3.5765e- 013 137.62 16.]	[ 4.9215e- 013 137.62 16.]	[ 82.514 3.4097e- 013 113.52 16.]	[ 4.0415e- 013 113.52 16.]	[ 75.755 3.2153e- 013 16.]

TABLE 35

Transfer Properties											
Source											
Read Only	No										
Transformations											
Base Configuration	Absolute										
Transformed Configuration	[ 3.1204e-013 87.861 16. ]	[ 32.712 1.7362e-013 16. ]	[ 5.6318e-013 158.36 16. ]	[ 38.712 1.8776e-013 16. ]	[ 4.797e-013 134.9 16. ]	[ 1.41126e-013 108.47 16. ]	[ 3.8563e-013 - 16. ]	[ -23.424 2.4086e-014 16. ]	[ 5.6788e-013 160. 16. ]	[ -9.7599 1.5819e-014 16. ]	[ 4.9776e-013 140. 16. ]

TABLE 36  
Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name State	Part1  DE6141	Part1 DE 6147	Part1 DE 6177	Part1  DE 6183	Part1 DE 6195	Part1  DE6201	Part1 DE 6213	Part1  DE 6219	Part1  DE 6231	Part1  DE 6237	Part1  DE 6249
	Fully Defined										
Type	Definition										
Coordinate System	Cartesian										
APDL Name	Program Controlled										
Suppressed	No										
Define By	Origin										
Origin X	1.556 mm	4.1212e- 013 mm	6.8413e- 030 mm	0. mm	5.0484e- 013 mm	-76.735 mm	4.5655e- 013 mm	-57.054 mm	3.8973e- 013 mm	-38.212 mm	3.8227e- 013 mm
Origin Y	6.0143e- 014 mm		-5.5864e- 014 mm	5.5864e- 014 mm		-	3.2837e- 013 mm	-	2.6033e- 013 mm	109.54 mm	-1.9121e- 013 mm
Origin Z								-16. mm			107.51 mm
Location	Defined										
Axis	Principal Axis										
Define By	X										
Axis	Fixed Vector										
Define By	Orientation About Principal Axis										
Axis	Y										
Define By	Fixed Vector										
X Axis Data	[ -1.0. 0.]	[ 0:-9.0.]	[ -1.0.0.]	[ 1.0.0.]	[ -1.0. 0.]	[ 1.0.0.]	[ -1.0. 0.]	[ 1.0.0.]	[ -1.0. 0.]	[ 1.0.0.]	[ 1.0.0.]
Z Axis Data	[ 0.1. 0.]		[ 0.1.0.]	[ 0.-1.0.]	[ 0.1.0.]	[ 0.-1.0.]	[ 0.1.0.]	[ 0.-1.0.]	[ 0.1.0.]	[ 0.-1.0.]	[ 0.-1.0.]
	Directional Vectors										
	[ 0.0.-1.]										
	Transfer Properties										
Source											
Read Only	No										
Base Configuration	Transformations										
	Absolute										
Transformed Configuration	[ 1.556 6.0143e- 014 16.]	[ 4.1212e- 013 116. 16.]	[ 6.8413e- 030 - 5.5864e- 014 -16.]	[ 0. 5.5864e- 014 - 16.]	[ 5.0484e- 013 142.34 - 16.]	[ -76.735 - 3.2837e- 013 - 16.]	[ 4.5655e- 013 128.22 - 16.]	[ -57.054 - 2.6033e- 013 - 16.]	[ 3.8973e- 013 109.54 - 16.]	[ -38.212 - 1.9121e- 013 - 16.]	[ 3.8227e- 013 107.51 - 16.]

TABLE 37

Principal Axis												
Axis	X											
Define By	Fixed Vector											
Orientation About Principal Axis												
Axis	Y											
Define By	Fixed Vector											
Directional Vectors												
X Axis Data	[ -1.0. 0. ]	[ 1.0.0.]	[ -1.0. 0. ]	[ 1.0.0.]								
Y Axis Data	[ 0.1.0.]	[ 0.-1.0.]	[ 0.1.0.]	[ 0.-1.0.]	[ 0.1.0.]	[ 0.-1.0.]	[ 0.1.0.]	[ 0.-1.0.]	[ 0.1.0.]	[ 0.-1.0.]	[ 0.1.0.]	[ 0.-1.0.]
Z Axis Data	[ 0.0.-1.]											
Transfer Properties												
Source												
Read Only	No											
Transformations												
Base Configuration	Absolute											
Transformed Configuration	[ -120.79 -4.7641e- 013-16.]	[ 3.5663e- 013 100.97 - 16.]	[ -97.467 -3.9682e- 013-16.]	[ 3.1931e- 013 89.861 - 16.]	[ -73.371 -3.1183e- 013-16.]	[ 2.1613e- 013 59.714 - 16.]	[ -150.28 - 5.817e- 013-16.]	[ 2.1528e- 013 61.548 - 16.]	[ -126.12 -4.9631e- 013-16.]	[ 2.1352e- 013 59.348 - 16.]	[ -99.681 -4.0534e- 013-16.]	

TABLE 38

Object Name State	Part1 DE 6357	Part1  DE 6363	Part1  DE 6375	Part1  DE 6381	Part1  DE 6393	Part1  DE 6399	Part1  DE 6411	Part1  DE 6417	Part1  DE 6429	Part1  DE 6435	Part1  DE 6447											
Fully Defined																						
Type	Definition																					
Coordinate System	Cartesian																					
APDL Name	Program Controlled																					
Suppressed	No																					
Origin																						
Define By	Global Coordinates																					
Origin X Y Z	3.0719e- 4.7156	-161.64 mm	5.5732e- 014 mm	-139.57 mm	7.7686e- 014 mm	-113.97- 4.7156e- 016 mm	-1.8091e- 013 mm	-153.5 mm	-1.1613e- 013 mm	-136.18 mm	-6.2849e- 014 mm											
Location	mm	-6.2027e- 013 mm	14.699 mm	-5.4336e- 013 mm	21.676 mm	-4.548e- 013 mm	-50.852 mm	-5.9382e- 013 mm	-33.922 mm	-5.3183e- 013 mm	-18.611 mm											
	-16. mm																					
Defined																						
Principal Axis																						
Axis	X																					
Define By	Fixed Vector																					
Orientation About Principal Axis																						
Axis	Y																					
Define By	Fixed Vector																					
Directional Vectors																						
X Axis Data	[ 1. 0. 0.]	[ -1. 0. 0.]	[ 1. 0. 0.]	[ -1. 0. 0.]	[ 0. 1. 0.]	[ -1. 0. 0.]	[ 1. 0. 0.]	[ -1. 0. 0.]	[ 1. 0. 0.]	[ -1. 0. 0.]	[ 1. 0. 0.]											
Y Axis Data	[ 0. -1. 0.]	[ 0. 1. 0.]	[ 0. -1. 0.]	[ 0. 1. 0.]		[ 0. 1. 0.]	[ 0. -1. 0.]	[ 0. 1. 0.]	[ 0. -1. 0.]	[ 0. 1. 0.]	[ 0. -1. 0.]											
Z Axis Data	[ 0. 0. -1.]																					
Transfer Properties																						
Source																						
Read Only	No																					
Transformations																						
Base Configuration	Absolute																					
Transformed Configuration	[ 2.0719e- 014 4.7156 - 16.]	[ -161.64 -6.2027e- 013 -16.]	[ 5.5732e- 014 14.699 - 16.]	[ -139.57 -5.4336e- 013 -16.]	[ 7.7686e- 014 21.676 - 16.]	[ -113.97- 4.7156e- 016 -1.8091e- 013 -153.5 -5.9382e- 013 -16.]	[ 1.8091e- 013 -50.852 - 16.]	[ -153.5 - 5.9382e- 013 -16. 1.1613e- 013 -33.922 - 16.]	[ -136.18 - 5.3183e- 013 -16. -6.2849e- 014 -18.611 - 16.]	[ -136.18 - 5.3183e- 013 -16. -6.2849e- 014 -18.611 - 16.]	[ -136.18 - 5.3183e- 013 -16. -6.2849e- 014 -18.611 - 16.]											

TABLE 39 Model (A4, B4) > Coordinate Systems > Coordinate System

Coordinate System	Program Controlled										
APDL Name											
Suppressed	No										
Origin											
Define By	Global Coordinates										
Origin X Location	-114.51 013 mm	-3.5175e-013 mm	-126.85 mm	-2.7988e-013 mm	-116.36 mm	-2.0131e-013 mm	-101.24 mm	-4.9215e-013 mm	-84.902 mm	-4.0415e-013 mm	-82.514 mm
Origin Z Location	-4.5683e-013 mm	-100.29 mm	-4.9793e-013 mm	-78.452 mm	-4.5938e-013 mm	-56.652 mm	-4.0927e-013 mm	-137.62 mm	-3.5765e-013 mm	-113.52 mm	-3.4097e-013 mm
	-16. mm										
	Defined										
Principal Axis											
Axis	X										
Define By	Fixed Vector										
Orientation About Principal Axis											
Axis	Y										
Define By	Fixed Vector										
Directional Vectors											
X Axis Data	[ -1. 0. 0. ]	[ 1. 0. 0.]	[ -1. 0. 0. ]	[ 1. 0. 0.]	[ -1. 0. 0. ]	[ 1. 0. 0.]	[ -1. 0. 0. ]	[ 1. 0. 0.]	[ -1. 0. 0. ]	[ 1. 0. 0.]	[ -1. 0. 0. ]
Y Axis Data	[ 0. 1. 0.]	[ 0. -1. 0. ]	[ 0. 1. 0.]	[ 0. -1. 0. ]		[ 0. 1. 0.]	[ 0. -1. 0. ]		[ 0. 1. 0.]	[ 0. -1. 0. ]	[ 0. 1. 0.]
Z Axis Data	[ 0. 1. 0.]	[ 0. -1. 0. ]	[ 0. 1. 0.]	[ 0. -1. 0. ]		[ 0. 1. 0.]	[ 0. -1. 0. ]		[ 0. 1. 0.]	[ 0. -1. 0. ]	[ 0. 1. 0.]
Transfer Properties											
Source											
Read Only	No										
Transformations											
Base Configuration	Absolute										
Transformed Configuration	[ -114.51 -4.5683e-013-16.]	[ 3.5175e-013 -100.29 -16.]	[ -126.85 -4.9793e-013-16.]	[ 2.7988e-013 -78.452 -16.]	[ -116.36 -4.5938e-013-16.]	[ 2.0131e-013 -56.652 -16.]	[ -101.24 -4.0927e-013-16.]	[ 4.9215e-013 -137.62 -16.]	[ -84.902 -3.5765e-013-16.]	[ 4.0415e-013 -113.52 -16.]	[ -82.514 -3.4097e-013-16.]

TABLE 40  
Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name	Part1 DE 6555	Part1  DE 6561	Part1 DE 6573	Part1 DE 6579	Part1  DE 6591	Part1 DE 6597	Part1 DE 6609	Part1 DE 6615	Part1  DE 6627	Part1  DE 6633	Part1  DE 6645
State	Fully Defined										
Type	Definition										
Coordinate System	Cartesian										
APDL Name											
Suppressed	No										
Define By	Origin										
Origin X Location	[ -3.1204e-013 mm -87.861 mm]	[ -75.755 mm -3.2153e-013 mm]	[ -5.6318e-013 mm -158.36 mm]	[ -32.712 mm -1.7362e-013 mm]	[ -4.797e-013 mm -134.9 mm]	[ -38.712 mm -1.8776e-013 mm]	[ -3.8563e-013 mm -108.47 mm]	[ -41.136 mm -1.9775e-013 mm]	[ -5.6788e-013 mm -160. mm]	[ 23.424 mm 2.4086e-014 mm]	[ -4.9776e-013 mm -140. mm]
Origin Z Location											
	-16. mm										
	Defined										
Principal Axis											
Axis	X										
Define By	Fixed Vector										
Orientation About Principal Axis											
Axis	Y										
Define By	Fixed Vector										
Directional Vectors											
X Axis Data	[ 1. 0. 0.]	[ -1. 0. 0.]	[ 1. 0. 0.]	[ -1. 0. 0.]	[ 1. 0. 0. ]	[ -1. 0. 0.]	[ 1. 0. 0.]	[ -1. 0. 0.]	[ 1. 0. 0.]	[ -1. 0. 0. ]	[ 1. 0. 0.]
Y Axis Data	[ 0. -1. 0.]	[ 0. 1. 0.]	[ 0. -1. 0.]	[ 0. 1. 0.]	[ 0. -1. 0. ]	[ 0. 1. 0.]	[ 0. -1. 0. ]	[ 0. 1. 0.]	[ 0. -1. 0. ]	[ 0. 1. 0.]	[ 0. -1. 0. ]
Z Axis Data					[ 0. 0.-1.]						
Transfer Properties											
Source											
Read Only	No										
Transformations											
Base Configuration	Absolute										
	[ -3.1204e-013 -3.1204e-013]	[ -75.755 -75.755]	[ -5.6318e-013 -5.6318e-013]	[ -32.712 -32.712]	[ -4.797e-013 -4.797e-013]	[ -38.712 -38.712]	[ -3.8563e-013 -3.8563e-013]	[ -41.136 -41.136]	[ - -]	[ 23.424 23.424]	[ - -]

Transformed Configuration	013 - 87.861 - 16. ]	-3.2153e- 013 - 16. ]	013 - 158.36 - 16. ]	-1.7362e- 013 - 16. ]	013 - 134.9 - 16. ]	-1.8776e- 013 - 16. ]	013 - 108.47 - 16. ]	-1.9775e- 013 - 16. ]	5.6788e- 013 - 160. -16. ]	2.4086e- 014 - 16. ]	4.9776e- 013 - 140. -16. ]
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TABLE 41  
Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name State	Part1 DE 6651	Part1 DE 6663	Part1 DE Part1 DE 6669	Part1 DE 6681	Part1 DE 6687	Part1 DE 6699 DE 6705	Part1 DE 6717	Part1 DE 6723	Part1 DE 6735	Part1 DE 6741												
Fully Defined																						
Definition																						
Type																						
Coordinate System																						
APDL Name																						
Suppressed																						
Origin																						
Global Coordinates																						
Origin X	9.7599 mm	-4.1212e- 013 mm	1.556 mm	-5.0484e- 013 mm	76.735 mm	-4.5655e- 013 mm	57.054 mm	-3.8973e- 013 mm	38.212 mm	-3.8227e- 013 mm	120.79 mm											
Origin Z	-1.5819e- 014 mm	-116. mm	-6.0143e- 014 mm	-142.34 mm	2.1594e- 013 mm	-128.22 mm	1.479e- 013 mm	-109.54 mm	7.8779e- 014 mm	-107.51 mm	3.6398e- 013 mm											
Location																						
-16. mm																						
Defined																						
Principal Axis																						
Axis																						
Define By	X																					
Fixed Vector																						
Orientation About Principal Axis																						
Axis																						
Define By	Y																					
Fixed Vector																						
Directional Vectors																						
X Axis Data	[ -1. 0. 0. ]	[ 1. 0. 0. ]	[ -1. 0. 0. ]	[ 1. 0. 0. ]	[ -1. 0. 0. ]	[ 0. 0. 1. ]	[ -1. 0. 0. ]	[ 0. 0. 1. ]	[ -1. 0. 0. ]	[ 1. 0. 0. ]	[ -1. 0. 0. ]											
Y Axis Data	[ 0. 1. 0. ]	[ 0. -1. 0. ]	[ 0. 1. 0. ]	[ 0. -1. 0. ]			[ 0. 1. 0. ]		[ 0. 1. 0. ]	[ 0. -1. 0. ]	[ 0. 1. 0. ]											
Z Axis Data					[ 0. 0. -1. ]																	
Transfer Properties																						
Source																						
Read Only																						
No																						
Transformations																						
Base Configuration																						
Absolute																						
Transformed Configuration	[ 9.7599 - 01416. ]	[ -4.1212e- 013 - 116. -16. ]	[ -1.556 - 6.0143e- 014 - 16. ]	[ 5.0484e- 013 - 142.34 - 16. ]	[ 76.735 - 2.1594e- 013 - 16. ]	[ -4.5655e- 013 - 128.22 - 16. ]	[ 57.054 - 1.479e- 013 - 16. ]	[ 3.8973e- 013 - 109.54 - 16. ]	[ 38.212 - 7.8779e- 014 - 16. ]	[ 3.8227e- 013 - 107.51 - 16. ]	[ 120.79 - 3.6398e- 013 - 16. ]											

TABLE 42  
Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name State	Part1 DE 6753	Part1 DE 6759	Part1 DE 6771	Part1 DE Part1 DE 6777	Part1 DE 6789	Part1 DE 6795	Part1 DE Part1 DE 6807	Part1 DE 6813	Part1 DE Part1 DE 6825	Part1 DE 6831	Part1 DE 6843											
Fully Defined																						
Definition																						
Type																						
Coordinate System																						
APDL Name																						
Suppressed																						
Origin																						
Global Coordinates																						
Origin X	-3.5663e- 013 mm	97.467 mm	-3.1931e- 013 mm	73.371 mm	-2.1613e- 013 mm	150.28 mm	-2.1528e- 013 mm	126.12 mm	-2.1352e- 013 mm	99.681 mm	-2.0719e- 014 mm											
Origin Z	-100.97 mm	2.8438e- 013 mm	-89.861 mm	1.9939e- 013 mm	-59.714 mm	4.6927e- 013 mm	-61.548 mm	3.8388e- 013 mm	-59.348 mm	2.9291e- 013 mm	-4.7156 mm											
Location																						
-16. mm																						
Defined																						
Principal Axis																						
Axis																						
Define By	X																					
Fixed Vector																						
Orientation About Principal Axis																						
Axis																						
Define By	Y																					
Fixed Vector																						
Directional Vectors																						
X Axis Data	[ 1. 0. 0. ]	[ -1. 0. 0. ]	[ 1. 0. 0. ]	[ -1. 0. 0. ]	[ 1. 0. 0. ]	[ -1. 0. 0. ]	[ 1. 0. 0. ]	[ -1. 0. 0. ]	[ 1. 0. 0. ]	[ -1. 0. 0. ]	[ 1. 0. 0. ]											

Y Axis Data	[ 0. -1. 0. ]	[ 0. 1. 0. ]	[ 0. -1. 0. ]	[ 0. 1. 0. ]	[ 0. -1. 0. ]	[ 0. 1. 0. ]	[ 0. -1. 0. ]	[ 0. 1. 0. ]	[ 0. -1. 0. ]	[ 0. 1. 0. ]	[ 0. -1. 0. ]
Z Axis Data											[ 0. 0.-1.]
Transfer Properties											
Source											
Read Only	No										
Base Configuration	Transformations										
Transformed Configuration	[ -3.5663e- 100.97 - 16. ]	[ 97.467 2.8438e- 013 - 16. ]	[ 3.1931e- 89.861 - 013 - 16. ]	[ 73.371 1.9939e- 013 - 16. ]	[ 2.1613e- 59.714 - 013 - 16. ]	[ 150.28 4.6927e- 013 - 16. ]	[ 2.1528e- 61.548 - 013 - 16. ]	[ 126.12 3.8388e- 013 - 16. ]	[ 2.1352e- 59.348 - 013 - 16. ]	[ 99.681 2.9291e- 013 - 16. ]	[ 2.0719e- 4.7156 - 16. ]

TABLE 43  
Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name State	Part1  DE6849	Part1  DE6861	Part1  DE6867	Part1  DE6871	Part1  DE6879	Part1  DE6885	Part1  DE6897	Part1  DE6903	Part1  DE6915	Part1  DE6921	Part1  DE6933	Part1  DE6939
Fully Defined												
Definition												
Type	Cartesian											
Coordinate System	Program Controlled											
APDL Name												
Suppressed	No											
Define By	Origin											
Origin X	[ 55.732e- 014 mm]	[ 139.57 4.3092e- 013 - 16. ]	[ 139.57 4.3092e- 013 mm]	[ -7.7686e- 014 mm]	[ 113.97 3.4236e- 013 - 16. ]	[ 1.8091e- 50.852 - 013 - 16. ]	[ 153.5 4.8139e- 013 - 16. ]	[ 1.1613e- 33.922 - 013 mm]	[ 136.18 4.194e- 013 - 16. ]	[ 6.2849e- 18.611 - 014 mm]	[ 114.51 3.444e- 013 - 16. ]	
Origin Z Location	[ 5.987e- 013 mm]	[ 14.699 - mm]	[ 4.3092e- 013 mm]	[ -21.676 mm]	[ 3.4236e- 013 mm]	[ 50.852 mm]	[ 4.8139e- 013 mm]	[ 33.922 mm]	[ 4.194e- 013 mm]	[ 18.611 mm]	[ 3.444e- 013 mm]	
	-16. mm											
	Defined											
Define By	Principal Axis											
Axis	X											
Define By	Fixed Vector											
Orientation About Principal Axis												
Axis	Y											
Define By	Fixed Vector											
	Directional Vectors											
X Axis Data	[ -1. 0. 0. ]	[ 1. 0. 0. ]	[ -1. 0. 0. ]	[ 1. 0. 0. ]	[ -1. 0. 0. ]	[ 1. 0. 0. ]	[ -1. 0. 0. ]	[ 1. 0. 0. ]	[ -1. 0. 0. ]	[ 1. 0. 0. ]	[ -1. 0. 0. ]	
Y Axis Data	[ 0. 1. 0. ]	[ 0. -1. 0. ]	[ 0. 1. 0. ]	[ 0. -1. 0. ]	[ 0. 1. 0. ]	[ 0. -1. 0. ]	[ 0. 1. 0. ]	[ 0. -1. 0. ]	[ 0. 1. 0. ]	[ 0. -1. 0. ]	[ 0. 1. 0. ]	
Z Axis Data	[ 0. 0.-1.]											
Transfer Properties												
Source												
Read Only	No											
Transformations												
Base Configuration	Absolute											
Transformed Configuration	[ 161.64 5.087e- 013 - 16. ]	[ 5.5732e- 014 - 14.699 - 16. ]	[ 139.57 4.3092e- 013 - 16. ]	[ -7.7686e- 014 - 21.676 - 16. ]	[ 113.97 3.4236e- 013 - 16. ]	[ 1.8091e- 50.852 - 013 - 16. ]	[ 153.5 4.8139e- 013 - 16. ]	[ 1.1613e- 33.922 - 013 mm]	[ 136.18 4.194e- 013 - 16. ]	[ 6.2849e- 18.611 - 014 mm]	[ 114.51 3.444e- 013 - 16. ]	

TABLE 44  
Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name State	Part1  DE6951	Part1  DE6957	Part1  DE6969	Part1  DE6975	Part1  DE6987	Part1  DE6993	Part1  DE7005	Part1  DE7011	Part1  DE7023	Part1  DE7029	Part1  DE7041	
Fully Defined												
Definition												
Type	Cartesian											
Coordinate System	Program Controlled											
APDL Name												
Suppressed	No											
Define By	Origin											
Origin X	[ 3.5775e- 100.29 - 11. ]	[ 126.85 -0.29 - 11. ]	[ 2.7988e- 013 mm]	[ 116.36 mm]	[ 2.0131e- 013 mm]	[ 101.24 4.9215e- 013 mm]	[ 84.902 mm]	[ 4.0415e- 013 mm]	[ 82.514 mm]	[ 3.1204e- 013 mm]		
Origin Y			3.855e-	78.452	3.4695e-	56.652	2.9683e-	137.62	2.4522e-	113.52	2.2854e-	87.861

**TABLE 45**  
**Model (A4, B4) > Coordinate Systems > Coordinate System**

Object Name State	Part1  DE7047	Part1  DE 7059	Part1 DE 7065	Part1  DE 7077	Part1 DE 7083	Part1 DE 7095	Part1 DE 7101	Part1 DE 7113	Part1  DE 7119	Part1  DE 7131	Part1  DE 7137
	Fully Defined										
Type	Definition Cartesian										
Coordinate System	Program Controlled										
APDL Name											
Suppressed	No										
	Origin										
Define By	Global Coordinates										
Origin X Location	75.755 mm	5.6318e- 013 mm	32.712 mm	4.797e- 013 mm	38.712 mm	3.8563e- 013 mm	41.136 mm	5.6788e- 013 mm	-23.424 mm	4.9776e- 013 mm	-9.7599 mm
Origin Z Location	2.091e- 013 mm	158.36 mm	6.1187e- 014 mm	134.9 mm	7.5327e- 014 mm	108.47 mm	8.5321e- 014 mm	160. mm	-1.3652e- 013 mm	140. mm	-9.6614e- 014 mm
	-16. mm										
	Defined										
	Principal Axis										
Axis	X										
Define By	Fixed Vector										
	Orientation About Principal Axis										
Axis	Y										
Define By	Fixed Vector										
	Directional Vectors										
X Axis Data	[ -1.0. 0.]	[ 1.0.0.]	[ -1.0. 0.]	[ 1.0.0.]	[ -1.0. 0.0.1]	[ 1.0.0.]	[ -1.0. 0.0.1]	[ 1.0.0.]	[ -1.0. 0.]	[ 1.0.0.]	[ -1.0. 0.]
Z Axis Data	[ 0.1. 0.]	[ 0.-1.0.]	[ 0.1.0.]	[ 0.-1. 0.]	[ 0.0.1]				[ 0.-1.0.]	[ 0.1.0.]	[ 0.-1.0.]
	[ 0.0.-1.]										
	Transfer Properties										
Source											
Read Only	No										
	Transformations										
Base Configuration	Absolute										
Transformed Configuration	[ 75.755 2.091e- 013 - 16.]	[ 5.6318e- 013 158.36 - 16.]	[ 32.712 6.1187e- 014 -16.]	[ 4.797e- 013 134.9 - 16.]	[ 38.712 7.5327e- 014 -16.]	[ 3.8563e- 013 108.47 - 16.]	[ 41.136 8.5321e- 014 -16.]	[ 5.6788e- 013 160. - 16.]	[ -23.424 -1.3652e- 013 -16.]	[ 4.9776e- 013 140. - 16.]	[ -9.7599 -9.6614e- 014 -16.]

TABLE 46  
Model (A4, B4) > Coordinate Systems > Coordinate System

Type	Cartesian										
Coordinate System	Program Controlled										
APDL Name	No										
Suppressed	Origin										
Define By	Global Coordinates										
Origin X	4.1212e-013 mm	1.556 mm	2.6881e-013 mm	25.954 mm	-2.623e-015 mm	79.989 mm	-2.7104e-013 mm	23.482 mm	-1.6007e-013 mm	-65.477 mm	1.6807e-013 mm
Origin Y	116. mm	-5.229e-014 mm	75.673 mm	3.4814e-014 mm	-1.2994 mm	2.2338e-013 mm	-76.476 mm	2.4493e-014 mm	-45.965 mm	-2.8445e-013 mm	48.068 mm
Origin Z											
Location	-16. mm										
	Defined										
	Principal Axis										
Axis	X										
Define By	Fixed Vector										
	Orientation About Principal Axis										
Axis	Y										
Define By	Fixed Vector										
	Directional Vectors										
X Axis Data	[ 1. 0. 0. ]	[ -1. 0. 0. ]	[ 1. 0. 0. ]	[ -1. 0. 0. ]	[ 1. 0. 0. ]	[ -1. 0. 0. ]	[ 1. 0. 0. ]	[ -1. 0. 0. ]	[ 1. 0. 0. ]	[ -1. 0. 0. ]	[ 1. 0. 0. ]
Y Axis Data	[ 0. -1. 0. ]	[ 0. 1. 0. ]	[ 0. -1. 0. ]	[ 0. 1. 0. ]	[ 0. -1. 0. ]		[ 0. -1. 0. ]	[ 0. 1. 0. ]	[ 0. -1. 0. ]	[ 0. 1. 0. ]	[ 0. -1. 0. ]
Z Axis Data						[ 0. 0. -1. ]					
	Transfer Properties										
Source											
Read Only	No										
	Transformations										
Base Configuration	Absolute										
Transformed Configuration	[ 4.1212e-013 ]	[ 1.556 -5.229e-014 ]	[ 2.6881e-013 ]	[ 25.954 ]	[ -2.623e-015 ]	[ 79.989 ]	[ -2.7104e-013 ]	[ 23.482 ]	[ -1.6007e-013 ]	[ -65.477 ]	[ 1.6807e-013 ]
	[ 116. -16. ]	[ 75.673 -16. ]	[ 3.4814e-014 -16. ]	[ -1.2994 -16. ]	[ 2.2338e-013 -16. ]	[ -76.476 -16. ]	[ 2.4493e-014 -16. ]	[ 45.965 -16. ]	[ -2.8445e-013 -16. ]	[ 48.068 -16. ]	[ 148.068 -16. ]

TABLE 47  
Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name	Part1 DE 7245	Part1 DE 7273	Part1 DE 7307	Part1 DE 7313	Part1 DE 7325	Part1 DE 7331	Part1 DE 7343	Part1 DE 7349	Part1 DE 7361	Part1 DE 7367	Part1 DE 7379
State	Fully Defined										
Type	Definition										
Coordinate System	Cartesian										
APDL Name	Program Controlled										
Suppressed	No										
Define By	Origin										
Origin X	Global Coordinates										
Origin Y	-63.949 mm	-8.9792e-030 mm	-1.1117e-029 mm	0. mm	25.954 mm	2.6881e-013 mm	79.989 mm	-2.623e-015 mm	23.482 mm	-2.7104e-013 mm	-65.477 mm
Origin Z	-2.8073e-013 mm	7.3321e-014 mm	-9.0779e-014 mm	9.0779e-014 mm	1.8238e-013 mm	75.673 mm	3.7008e-013 mm	-1.2994 mm	1.7206e-013 mm	-76.476 mm	-1.3689e-013 mm
Location											
	-16. mm	21. mm						26. mm			
	Defined										
Axis	Principal Axis										
Define By	X										
	Fixed Vector										
Axis	Orientation About Principal Axis										
Define By	Y										
	Fixed Vector										
	Directional Vectors										
X Axis Data	[ -1. 0. 0. ]	[ 1. 0. 0. ]	[ -1. 0. 0. ]	[ 1. 0. 0. ]	[ -1. 0. 0. ]	[ 1. 0. 0. ]	[ -1. 0. 0. ]	[ 1. 0. 0. ]	[ -1. 0. 0. ]	[ 1. 0. 0. ]	[ -1. 0. 0. ]
Y Axis Data	[ 0. 1. 0. ]	[ 0. -1. 0. ]	[ 0. 1. 0. ]	[ 0. -1. 0. ]	[ 0. 1. 0. ]	[ 0. -1. 0. ]	[ 0. 1. 0. ]	[ 0. -1. 0. ]	[ 0. 1. 0. ]	[ 0. -1. 0. ]	[ 0. 1. 0. ]
Z Axis Data						[ 0. 0. -1. ]					
	Transfer Properties										
Source											
Read Only	No										
	Transformations										
Base Configuration	Absolute										
	[ - ]	[ - ]	[ - ]						[ - ]	[ - ]	[ - ]

Transformed Configuration	[ -63.949 2.8073e- 013 16. ]	8.9792e- 030	1.1117e- 029	[ 0. 9.0779e- 014 21. ]	[ 25.954 1.8238e- 014 26. ]	[ 2.6881e- 013	[ 79.989 3.7008e- 013 26. ]	2.623e- 015 -	[ 23.482 1.7206e- 013 26. ]	2.7104e- 013 -	[ -65.477 -1.3689e- 013 26. ]
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TABLE 48

Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name	Part1 DE	Part1  DE	Part1 DE	Part1  DE	Part1 DE	Part1 DE	Part1 DE	Part1 DE	Part1  DE	Part1  DE	Part1  DE											
State	7385	7397	7403	7427	7455	7487	7519	7551	7583	7619	7667											
Fully Defined																						
Definition																						
Type	Cartesian																					
Coordinate System	Program Controlled																					
APDL Name																						
Suppressed	No																					
Origin																						
Define By	Global Coordinates																					
Origin X	-1.6007e-013 mm	-63.949 mm	1.6807e-013 mm	0. mm	-63.949 mm	-65.477 mm	23.482 mm	79.989 mm	25.954 mm	-3.8569e-014 mm	-3.8837e-014 mm											
Origin Y	-45.965 mm	-1.3316e-013 mm	48.068 mm	8.3796e-014 mm	-1.3316e-013 mm	-1.3689e-013 mm	1.7206e-013 mm	3.7008e-013 mm	1.8238e-013 mm	4.2841e-014 mm	4.4019e-014 mm											
Origin Z																						
Location	26. mm			24. mm			26. mm			8. mm												
Defined																						
Principal Axis																						
Axis	X																					
Define By	Fixed Vector																					
Orientation About Principal Axis																						
Axis	Y																					
Define By	Fixed Vector																					
Directional Vectors																						
X Axis Data	[ 1. 0. 0. ]	[-1. 0. 0.]			[ 1. 0. 0. ]					[-0.10846 0.9941 0.]	[-1.6142e-002 0.99987 0.]											
Y Axis Data	[ 0. -1. 0.]	[ 0. 1. 0.]			[ 0. -1. 0.]					[ 0.9941 0.10846 0.]	[ 0.99987 1.6142e-002 0.]											
Z Axis Data																						
	[0.0.-1. ]																					
Transfer Properties																						
Source																						
Read Only	No																					
Transformations																						
Base Configuration	Absolute																					
Transformed Configuration	[-1.6007e-45.965 26.]	[-63.949 -1.3316e-013 26.]	[1.6807e-013 48.068 26.]	[0. -8.3796e-014 24.]	[-63.949 -1.3316e-013 26.]	[-65.477 -1.3689e-013 26.]	[23.482 1.7206e-013 26.]	[79.989 3.7008e-013 26.]	[25.954 1.8238e-013 26.]	[-3.8569e-014 4.2841e-014 26.]	[-3.8837e-014 4.4019e-014 26.]											

**TABLE 49**  
**Model (A4, B4) > Coordinate Systems > Coordinate System**

Define By	Fixed Vector														
Axis	Orientation About Principal Axis														
Define By	Y														
X Axis Data	[ 1. 0. 0.]	[ -0.71085 0.70334 0.]	[ 1. 0. 0.]	[ -1.6142e- 002 0.99987 0.]	[ 0.76828 0.64012 0.]	[ 0.13053 -0.99144 0.]	[ 0. 0. -1.]	[ 0.28022 0.95994 0.]	[ 0.32681 0.94509 0.]	[ 1. 0. 0.]					
Y Axis Data	[ 0. -1. 0.]	[ 0.70334 0.71085 0.]	[ 0. -1. 0.]	[ 0.99987 1.6142e- 002 0.]	[ 0.64012 -0.76828 0.]	[ 0. 0. -1.]	[ 0.13053 -0.99144 0.]	[ 0.95994 -0.28022 0.]	[ 0.94509 -0.32681 0.]	[ 0. -1. 0.]					
Z Axis Data	[ 0. 0. -1.]				[ -0.99144 0.13053 0.]	[ 0. 0. -1.]									
Transfer Properties															
Source															
Read Only	No														
Transformations															
Base Configuration	Absolute														
Transformed Configuration	[ 1.0663e- 012 160. - 8.]	[ -57.583 23.673 8.]	[ 2.2691e- 012 140. 8.]	[ 3.8837e- 014 - 4.4019e- 014 -8.]	[ -53.923 148.96 - 8.]	[ 13.281 100.88 - 89.231]	[ 23.394 177.7 11.747]	[ 1.9713e- 014 4.8945e- 014 8.]	[ 1.9983e- 014 4.9598e- 014 -8.]	[ 7.4782e- 013 134.9 -8.]	[ 1.9983e- 014 - 4.9598e- 014 -8.]				

TABLE 50  
Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name	Part1  DE 8043	Part1  DE 8089	Part1  DE 8095	Part1  DE 8135	Part1  DE 8171	Part1  DE 8207	Part1  DE 8225	Part1  DE 8235	Part1  DE 8281	Part1  DE 8287	Part1  DE 8331							
State	Fully Defined																	
Type	Cartesian																	
Coordinate System	Program Controlled																	
APDL Name																		
Suppressed	No																	
Define By	Origin																	
Origin X	-49.597 mm	45.794 mm	29.323 mm	4.3931e- 017 mm	[ 1.7081e- 126.85 1.7081e- 016 mm]	[ 0.16 mm]	[ 142. mm]	[ 98.255 mm]	[ 88.142 mm]	[ 1.7694e- 014 mm]								
Origin Y	80.462 mm	170.9 mm	109.43 mm	4.7369e- 014 mm	[ 4.7517e- 9.8739e- 013 mm]	[ -4.7517e- 014 mm]	[ 31.102 mm]	[ 128.05 mm]	[ 114.87 mm]	[ 3.8353e- 014 mm]								
Origin Z	-8. mm	23.294 mm	-86.933 mm	8. mm		-8. mm		[ 54.789 mm]	[ -71.402 mm]	[ 8. mm]								
Location	Defined																	
Axis	Principal Axis																	
Define By	X																	
Axis	Fixed Vector																	
Define By	Orientation About Principal Axis																	
Axis	Y																	
Define By	Fixed Vector																	
X Axis Data	[ 0.44933 0.89337 0.]	[ 0. 0. - 1.]	[ -0.25882 -0.96593 0.]	[ 0.62624 0.77963 0.]	[ 0.62118 0.77554 0.]	[ -1. 0. 0.]	[ 0.63118 0.77564 0.]	[ -0.90845 -0.418 0.]	[ 0. 0. - 1.]	[ -0.60876 -0.79335 0.]	[ 0.87692 0.48063 0.]							
Y Axis Data	[ 0.89337 -0.44933 0.]	[ 0.25882 -0.96593 0.]	[ 0. 0. - 1.]	[ 0.77963 - 0.62624 0.]	[ 0.77554 - 0.63118 0.]	[ 0. 1. 0.]	[ 0.77564 - 0.63118 0.]	[ -0.418 0.90845 0.]	[ 0.60876 -0.79335 0.]	[ 0. 0. - 1.]	[ 0.48063 - 0.87692 0.]							
Z Axis Data	[ 0. 0. -1.]	[ -0.96593 0.25882 0.]	[ 0. 0. -1.]					[ -0.79335 0.60876 0.]	[ 0. 0. -1.]		[ 0. 0. -1.]							
Transfer Properties																		
Source																		
Read Only	No																	
Transformations																		
Base Configuration	Absolute																	
Transformed Configuration	[ -49.597 80.462 - 8.]	[ 45.794 170.9 23.294 ]	[ 29.323 109.43 - 86.933 ]	[ 4.3931e- 017 4.7369e- 014 8.]	[ 1.7081e- 016 4.7517e- 014 8.]	[ 126.85 - 9.8739e- 013 -8.]	[ 1.7081e- 016 4.7517e- 014 8.]	[ 142. 31.102 - 8. 8. ]	[ 98.255 128.05 54.789 ]	[ 88.142 114.87 - 71.402 ]	[ 1.7694e- 014 3.8353e- 014 8.]							

TABLE 51  
 Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name	Part1  DE 8383	Part1  DE 8399	Part1 DE 8417	Part1 DE 8423	Part1 DE8433	Part1 DE 8439	Part1  DE 8455	Part1  DE 8473	Part1  DE 8493	Part1  DE 8499	Part1  DE 8535
State	Fully Defined										
Type	Definition										
Coordinate System	Cartesian										
APDL Name	Program Controlled										
Suppressed	No										
Define By	Origin										
Origin X	1.376e-014 mm	3.0653e-013 mm	-1.7267e-014 mm	73.139 mm	136.25 mm	153.5 mm	170.9 mm	109.43 mm	116.91 mm	145.44 mm	2.7837e-014 mm
Origin Z	3.7631e-014 mm	50.852 mm	-3.8707e-014 mm	-53.027 mm	80.169 mm	5.0949e-013 mm	45.794 mm	29.323 mm	67.5 mm	83.971 mm	2.6427e-014 mm
Location		8. mm		-8. mm			-23.294 mm	86.933 mm	77.942 mm		8. mm
Define By	Defined										
Axis	Principal Axis										
Define By	X										
Axis	Fixed Vector										
Define By	Orientation About Principal Axis										
Axis	Y										
Define By	Fixed Vector										
Directional Vectors											
X Axis Data	[ 0.87996 0.47505 0. ]	[ 1. 0. 0.]	[ 0.87996 0.47505 0. ]	[ 0.95043 0.1093 0. ]	[ -0.48566 -0.87415 0. ]	[ -1. 0. 0. ]	[ -0.96593 -0.25882 0. ]	[ 0. 0. -1.]	[ -0.86603 -0.5 0. 0. ]	[ 0.9941 0.10846 0. ]	
Y Axis Data	[ 0.47505- 0.87996 0. ]	[ 0. -1. 0.]	0.87996 0. ]	[ 0.95043 0.31093 0. ]	[ 0.87415 0.48566 0. ]	[ 0. 1. 0.]	[ 0. 0. 1. ]	[ -0.96593 -0.25882 0. ]	[ -0.86603 -0.5 0. 0. ]	[ 0. 0. 1. ]	[ 0.10846- 0.9941 0. ]
Z Axis Data	[ 0. 0. -1.]						[ -0.25882 0.96593 0. ]	[ -0.5 0.86603 0. ]	[ 0. 0. -1.]		
Transfer Properties											
Source											
Read Only	No										
Transformations											
Base Configuration	Absolute										
Transformed Configuration	[ 1.376e-014 3.7631e-014 8.]	[ 3.0653e-013 50.852 -8.]	[ -1.7267e-014- 3.8707e-014 -8.]	[ 73.139 -53.027 -8.]	[ 136.25 80.169 -5.0949e-013 -8.]	[ 153.5 45.794 -23.294 -8.]	[ 170.9 29.323 86.933 ]	[ 109.43 67.5 77.942 ]	[ 116.91 83.971 -45. ]	[ 145.44 14. -45. ]	[ 2.7837e-014 2.6427e-014 8.]

**TABLE 52**  
**Model (A4, B4) > Coordinate Systems > Coordinate System**

X Axis Data	[ 1. 0. 0. ]	[ 0.99477 0.10215 0. ]	[ 1. 0. 0. ]	[ 0.99477 0.10215 0. ]	[ 3.2893e- 002 0.99946 0. ]	[ -1. 0. 0. ]	[ 1. 0. 0. ]	[ - 0.99144 0.13053 0. ]	[ 0. 0. -1. ]	[ - 0.99144 -0.13053 0. ]
Y Axis Data	[ 0. -1. 0. ]	[ 0.10215 - 0.99477 0. ]	[ 0. -1. 0. ]	[ 0.10215 - 0.99477 0. ]	[ 0.99946 - 3.2893e- 002 0. ]	[ 0. 1. 0. ]	[ 0. -1. 0. ]	[ 0. 0. 1. ]	[ - 0.99144 0.13053 0. ]	[ 0. 0. 1. ]
Z Axis Data	[ 0. 0. -1. ]						[ 0.13053 0.99144 0. ]	[ -0.13053 0.99144 0. ]	[ -0.13053 0.99144 0. ]	[ -0.13053 0.99144 0. ]
Transfer Properties										
Source										
Read Only	No									
Transformations										
Base Configuration	Absolute									
Transformed Configuration	[ 3.0468e- 014 2.4773e- 014 8. ]	[ 2.5566e- 014 2.5238e- 014 8. ]	[ - 1.3621e- 013 - 14.699 - 8. ]	[ - 2.9229e- 014 - 2.5049e- 014 -8. ]	[ 74.834 - 77.337 -5 8. ]	[ 161.64 3638e- 013 -8. ]	[ - 4.8475e- 014 - 4.7156 - 8. ]	[ 177.7 - 23.394 11.747 ]	[ 77.583 -10.214 89.23 ]	[ 100.88 13.281 89.23 ]

**TABLE 53**  
**Model (A4, B4) > Coordinate Systems > Coordinate System**

Object Name	Part1 DE 8761	Part1 DE 8829	Part1 DE 8847	Part1 DE 8853	Part1 DE 8865	Part1 DE 8871	Part1 DE 8887	Part1 DE 8905	Part1 DE 8925	Part1 DE 8931	Part1 DE 8967
State	Fully Defined										
Type	Definition										
Coordinate System	Cartesian										
APDL Name	Program Controlled										
Suppressed	No										
Origin											
Define By	Global Coordinates										
Origin X	3.6655e-014 mm	-5.2098e-013 mm	-3.1815e-014 mm	68.112 mm	150.28 mm	-2.4018e-013 mm	145.44 mm	38.971 mm	64.433 mm	170.9 mm	3.5079e-014 mm
Origin Z Location	4.412e-015 mm	-61.548 mm	-9.7164e-015 mm	-100.76 mm	4.9738e-013 mm	-59.714 mm	-83.971 mm	-22.5 mm	-17.265 mm	-45.794 mm	-1.5345e-014 mm
	8. mm			-8. mm			45. mm	77.942 mm	86.933 mm	23.294 mm	8. mm
Defined											
Principal Axis											
Axis	X										
Define By	Fixed Vector										
Orientation About Principal Axis											
Axis	Y										
Define By	Fixed Vector										
Directional Vectors											
X Axis Data	[ 0.95994 -0.28022 0.]	[ 1. 0. 0.]	[ 0.95814 -0.28631 0.]	[ 0.37274 0.92793 0.]	[ -1. 0. 0.]	[ 1. 0. 0.]	[ -0.86603 0.5 0.]	[ 0. 0. -1.]	[ -0.96593 0.25882 0.]	[ 0.77963 -0.62624 0.]	
Y Axis Data	[ -0.28022 -0.95994 0.]	[ 0. -1. 0.]	[ -0.28631 -0.95814 0.]	[ 0.92793 -0.37274 0.]	[ 0. 1. 0.]	[ 0. -1. 0.]	[ 0. 0. 1.]	[ -0.86603 0.5 0.]	[ -0.96593 0.25882 0.]	[ 0. 0. 1.]	[ -0.62624 -0.77963 0.]
Z Axis Data	[ 0. 0. -1.]								[ 0.25882 0.96593 0.]	[ 0. 0. -1.]	
Transfer Properties											
Source											
Read Only	No										
Transformations											
Base Configuration	Absolute										
Transformed Configuration	[ 3.6655e-014 4.412e-015 8.]	[ -5.2098e-6.1548-8.]	[ -3.1815e-014 -9.7164e-015 -8.]	[ 68.112 -100.76 -8.]	[ 150.28 4.9738e-013 -8.]	[ -2.4018e-013 -59.714 -8.]	[ 145.44 -83.971 45.]	[ 38.971 -22.5 77.942 ]	[ 64.433 -17.265 86.933 ]	[ 170.9 -45.794 23.294 ]	[ 3.5079e-014 -1.5345e-014 -8.]

TABLE 54  
Model (A4, B4) > Coordinate Systems > Coordinate System

Type	Cartesian															
Coordinate System	Program Controlled															
APDL Name	No															
Suppressed	Origin															
Define By	Global Coordinates															
Origin X	3.5092e-014 mm	-1.6144e-015 mm	-3.5092e-014 mm	-3.238e-014 mm	53.784 mm	120.79 mm	-4.0216e-013 mm	88.142 mm	11.322 mm	27.935 mm	128.05 mm					
Origin Y	-1.2648e-014 mm	-100.97 mm	1.2648e-014 mm	6.9278e-015 mm	-120.47 mm	3.9209e-013 mm	-107.51 mm	-114.87 mm	-14.755 mm	-21.435 mm	-98.255 mm					
Origin Z	8. mm	-8. mm						71.402 mm	54.789 mm	71.402 mm	54.789 mm					
Location	Defined															
Axis	Principal Axis															
Define By	X															
Axis	Fixed Vector															
Define By	Orientation About Principal Axis															
Axis	Y															
Define By	Fixed Vector															
	Directional Vectors															
X Axis Data	[ 0.65507 - 0.75557 0.]	[ 1. 0. 0.]	[ 0.65507 - 0.75557 0.]	[ 0.77564 - 0.63118 0.]	[ 0.66764 0.74449 0.]	[ -1. 0. 0.]	[ 1. 0. 0.]	[ -0.60876 0.79335 0.]	[ 0. 0. -1.]	[ -0.79335 0.60876 0.]	[ 0.79335 0.60876 0.]					
Y Axis Data	[ -0.75557 - 0.65507 0.]	[ 0. -1. 0.]	[ -0.75557 -0.65507 0.]	[ -0.63118 -0.77564 0.]	[ 0.74449 -0.66764 0.]	[ 0. 1. 0.]	[ 0. -1. 0.]	[ 0. 0. 1.]	[ -0.60876 0.79335 0.]	[ -0.79335 0.60876 0.]	[ 0. 0. 1.]					
Z Axis Data	[ 0. 0. -1.]							[ 0.79335 0.60876 0.]	[ 0.60876 0.79335 0.]							
	Transfer Properties															
Source																
Read Only	No															
	Transformations															
Base Configuration	Absolute															
Transformed Configuration	[ 3.5092e-014 -1.6144e-015 -1.2648e-014 8.]	[ -100.97 -8.]	[ -3.5092e-014 1.2648e-014 -8.]	[ -3.238e-014 6.9278e-015 -8.]	[ 53.784 -120.47 8.]	[ 120.79 3.9209e-013 -8.]	[ -4.0216e-013 71.402 -8.]	[ 88.142 -114.87 54.789]	[ 11.322 -14.755 0.]	[ 27.935 -21.435 71.402]	[ 128.05 -98.255 54.789]					

TABLE 55  
Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name State	Part1  DE 9189	Part1  DE 9241	Part1  DE 9273	Part1  DE 9283	Part1  DE 9289	Part1  DE 9295	Part1  DE 9301	Part1  DE 9319	Part1  DE 9335	Part1  DE 9353	Part1  DE 9403					
Fully Defined																
Type	Definition															
Coordinate System	Cartesian															
APDL Name	Program Controlled															
Suppressed	No															
Define By	Origin															
Origin X	Global Coordinates															
Origin Y	2.6062e-014 mm	6.1119e-014 mm	76.735 -2.8959e-014 mm	33.577 mm	6.4557e-014 mm	-2.6119e-014 mm	-41.857 mm	29.323 mm	0.79371 mm	1.0977e-014 mm						
Origin Z	-3.2995e-014 mm	-3.0941e-014 mm	4.147e-014 mm	2.6167e-014 mm	-134.1 mm	-128.22 mm	3.0941e-014 mm	-81.227 mm	-109.43 mm	-2.9622 mm	-4.5851e-014 mm					
Location	8. mm			-8. mm					86.933 mm	23.294 mm	8. mm					
	Definition															
Axis	Principal Axis															
Define By	X															
Axis	Fixed Vector															
Define By	Orientation About Principal Axis															
Axis	Y															
Define By	Fixed Vector															
	Directional Vectors															
X Axis Data	[ 0.48063 - 0.87692 0.]	[ 0.35714 - 0.93405 0.]	[ -1. 0. 0.]	[ 0.47505 -0.87996 0.]	[ 0.882 0.47124 0.]	[ 1. 0. 0.]	[ 0.35714 -0.93405 0.]	[ 0.58035 0.81437 0.]	[ -0.25882 0.96593 0.]	[ 0. 0. -1. ]	[ 0.10846 -0.9941 0. ]					







APDL Name											
Suppressed	No										
Define By	Origin										
Origin X	-0.76338 mm	-6.4247e-014 mm	-126.12 mm	6.3076e-014 mm	-58.012 mm	-150.28 mm	2.4018e-013 mm	-10.442 mm	-116.91 mm	-109.43 mm	-2.9622 mm
Origin Y	-0.1005 mm	-7.4224e-015 mm	2.0594e-013 mm	1.1005e-014 mm	-39.214 mm	-5.5359e-013 mm	59.714 mm	6.0289 mm	67.5 mm	29.323 mm	0.79371 mm
Origin Z	11.747 mm	8. mm			-8. mm			-45. mm	-77.942 mm	-86.933 mm	-23.294 mm
Location	Defined										
Axis	Principal Axis										
Define By	X										
Axis	Fixed Vector										
Define By	Orientation About Principal Axis										
Axis	Y										
Define By	Fixed Vector										
	Directional Vectors										
X Axis Data	[ 0.99144 0.13053 0. ]	[ -0.95994 0.28022 0. ]	[ -1. 0. 0. ]	[ -0.95814 -0.28631 0. ]	[ -0.37274 -0.92793 0. ]	[ -1. 0. 0. ]	[ 1. 0. 0. 0. ]	[ 0.86603 -0.5 0. 0. ]	[ 0. 0. -1. 0. ]	[ 0. 0. -1. 0. ]	[ 0.96593 -0.25882 0. ]
Y Axis Data	[ 0. 0. 1. 0. ]	[ 0.28022 0.95994 0. ]	[ 0. 1. 0. 0. ]	[ 0.28631 -0.95814 0. ]	[ -0.92793 -0.37274 0. ]	[ 0. 1. 0. 0. ]	[ 0. -1. 0. 0. ]	[ 0. 0. 1. 0. ]	[ 0.86603 -0.5 0. 0. ]	[ 0. 96593 -0.25882 0. ]	[ 0. 0. 1. 0. ]
Z Axis Data	[ 0.13053 -0.99144 0. ]			[ 0. 0. -1. 0. ]				[ -0.5 -0.86603 0. ]	[ -0.5 -0.86603 0. ]	[ -0.25882 -0.96593 0. ]	
	Transfer Properties										
Source											
Read Only	No										
	Transformations										
Base Configuration	Absolute										
Transformed Configuration	[ -0.76338 -0.1005 11.747 ]	[ -6.4247e-014 - 7.4224e-015 8. ]	[ -126.12 2.0594e-013-8. ]	[ 6.3076e-014 1.1005e-014 -8. ]	[ -58.012 - 39.214 - 8. ]	[ -150.28 -5.5359e-013 - 8. ]	[ 2.4018e-013 59.714 - 8. ]	[ -10.442 6.0289 - 45. ]	[ -116.91 67.5 - 77.942 ]	[ -109.43 29.323 - 86.933 ]	[ -2.9622 0.79371 - 23.294 ]

TABLE 61  
Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name State	Part1  DE 10623	Part1  DE 10673	Part1  DE 10705	Part1  DE 10711	Part1  DE 10729	Part1  DE 10735	Part1  DE 10747	Part1  DE 10753	Part1  DEP 10769	Part1  DEP 10787	Part1  DE 10807
	Fully Defined										
Type	Definition										
Coordinate System	Cartesian										
APDL Name	Program Controlled										
Suppressed	No										
Define By	Origin										
Origin X	-6.2671e-014 mm	-6.2777e-014 mm	-97.467 mm	6.2777e-014 mm	6.2966e-014 mm	-43.683 mm	-120.79 mm	4.0216e-013 mm	-21.435 mm	-98.255 mm	-114.87 mm
Origin Y	1.2335e-014 mm	1.4621e-014 mm	5.8179e-013 mm	-1.4621e-014 mm	6.8619e-015 mm	-19.502 mm	4.4831e-013 mm	107.51 mm	27.935 mm	128.05 mm	88.142 mm
Origin Z	8. mm			-8. mm				-71.402 mm	-54.789 mm	-71.402 mm	
Location	Defined										
Axis	Principal Axis										
Define By	X										
Axis	Fixed Vector										
Define By	Orientation About Principal Axis										
Axis	Y										
Define By	Fixed Vector										
	Directional Vectors										
X Axis Data	[ -0.77963 0.62624 0. ]	[ -0.65507 0.75557 0. ]	[ -1. 0. 0. ]	[ -0.65507 0.75557 0. ]	[ -0.77564 0.63118 0. ]	[ -0.66764 -0.74449 0. ]	[ -1. 0. 0. ]	[ 1. 0. 0. 0. ]	[ 0.60876 -0.79335 0. ]	[ 0. 0. -1. 0. ]	

Y Axis Data	[ 0.62624 0.77963 0. ]	[ 0.75557 0.65507 0. ]	[ 0. 1. 0. ]	[ 0.75557 0.65507 0. ]	[ 0.63118 0.77564 0. ]	[ - 0.74449 0.66764 0. ]	[ 0. 1. 0. ]	[ 0. -1. 0. ]	[ 0. 0. 1. ]	[ 0.60876 -0.79335 0. ]	[ 0.79335 -0.60876 0. ]		
Z Axis Data	[ 0. 0.-1. ]								[ -0.79335 -0.60876 0. ]		[ - 0.60876 0.79335 0. ]		
Transfer Properties													
Source													
Read Only	No												
Transformations													
Base Configuration	Absolute												
Transformed Configuration	[ - 6.2671e- 1.2335e- 014 8. ]	[ - 6.2777e- 014 ]	[ -97.467 5.8179e- 013 -8. ]	[ 6.2777e- 014 - 1.4621e- 014 8. ]	[ 6.2966e- 014 - 6.8619e- 014 -8. ]	[ - 43.683 - 19.502 - 4.4831e- 015 -8. ]	[ -120.79 - 4.4831e- 013 -8. ]	[ 4.0216e- 013 - 107.51 - 8. ]	[ -21.435 27.935 - 71.402 ]	[ -98.255 128.05 - 54.789 ]	[ -114.87 88.142 - 71.402 ]		

**TABLE 62**  
**Model (A4, B4) > Coordinate Systems > Coordinate System**

Object Name	Part1  DE 10813	Part1  DE 10845	Part1  DE 10897	Part1  DE 10929	Part1  DE 10939	Part1  DE 10945	Part1  DE 10951	Part1  DE 10957	Part1  DE 10975	Part1  DE 10991	Part1  DE 11009										
State	Fully Defined																				
Type	Cartesian																				
Coordinate System	Program Controlled																				
APDL Name	No																				
Suppressed	Origin																				
Define By	Global Coordinates																				
Origin X	-14.755 mm	-5.3654e- 014 mm	-5.3864e- 014 mm	9.4972e- 013 mm	5.4767e- 014 mm	-23.477 mm	-57.054 mm	5.3864e- 014 mm	-118.59 mm	-17.265 mm	-45.794 mm										
Origin Y	11.322 mm	2.9985e- 014 mm	3.1704e- 014 mm	142.34 mm	-1.9801e- 014 mm	-5.8785 mm	2.7521e- 013 mm	-3.1704e- 014 mm	61.112 mm	64.433 mm	170.9 mm										
Origin Z	-54.789 mm	8. mm		-8. mm						-86.933 mm	-23.294 mm										
Location	Defined																				
Axis	Principal Axis																				
Define By	X																				
Axis	Fixed Vector																				
Define By	Orientation About Principal Axis																				
Axis	Y																				
Define By	Fixed Vector																				
Directional Vectors																					
X Axis Data	[ 0.79335 -0.60876 0. ]	[ -0.48063 0.87692 0. ]	[ -0.35714 0.93405 0. ]	[ 1. 0. 0. ]	[ -0.47505 0.87996 0. ]	[ -0.882 0.47124 0. ]	[ -1. 0. 0. ]	[ -0.35714 0.93405 0. ]	[ -0.58035 0.81437 0. ]	[ 0.25882 -0.96593 0. ]	[ 0. 0. 1. ]										
Y Axis Data	[ 0. 0. 1. ]	[ 0.87692 0.48063 0. ]	[ 0.93405 0.35714 0. ]	[ 0. -1. 0. ]	[ 0.87996 0.47505 0. ]	[ -0.47124 0.882 0. ]	[ 0. 1. 0. ]	[ 0.93405 0.35714 0. ]	[ 0.81437 0.58035 0. ]	[ 0. 0. 1. ]	[ 0.25882 -0.96593 0. ]										
Z Axis Data	[ - 0.60876 0.79335 - 0. ]	[ 0. 0. -1. ]								[ -0.96593 -0.25882 0. ]											
Transfer Properties																					
Source	No																				
Read Only	Transformations																				
Base Configuration	Absolute																				
Transformed Configuration	[ -14.755 11.322 - 54.789 ]	[ -5.3654e- 014 2.9985e- 014 8. ]	[ -5.3864e- 014 3.1704e- 014 8. ]	[ 9.4972e- 013 142.34 - 8. ]	[ 5.4767e- 014- 1.9801e- 014 -8. ]	[ -23.477 -5.8785 - 8. ]	[ -57.054 2.7521e- 013 -8. ]	[ 5.3864e- 014 - 3.1704e- 014 -8. ]	[ -118.59 61.112 - 8. ]	[ -17.265 64.433 - 86.933 ]	[ -45.794 170.9 - 23.294 ]										

TABLE 63  
Model (A4, B4) > Coordinate Systems > Coordinate System

Definition																		
Type	Cartesian																	
Coordinate System	Program Controlled																	
APDL Name																		
Suppressed	No																	
Origin																		
Define By	Global Coordinates																	
Origin X Origin Y Origin Z Location	1.556 -6.0143e-014 mm	-9.7599 mm	-23.424 mm	-53.923 mm	41.136 mm	38.712 mm	-49.597 mm	32.712 mm	75.755 mm	82.514 mm	84.902 mm							
	1.5819e-014 mm	-2.4086e-014 mm	148.96 mm	1.9775e-013 mm	1.8776e-013 mm	80.462 mm	1.7362e-013 mm	3.2153e-013 mm	3.4097e-013 mm	3.5765e-013 mm								
	16. mm	-8. mm	16. mm	-8. mm					16. mm									
Defined																		
Principal Axis																		
Axis	X																	
Define By	Fixed Vector																	
Orientation About Principal Axis																		
Axis	Y																	
Define By	Fixed Vector																	
Directional Vectors																		
X Axis Data	[-1. 0. 0.]		[ 0.76828 0.64012 0. ]	[-1. 0. 0.]		[ 0.44933 0.89337 0. ]	[-1. 0. 0.]											
Y Axis Data	[ 0. 1. 0.]		[ 0.64012 -0.76828 0. ]	[ 0. 1. 0.]		[ 0.89337 -0.44933 0. ]	[ 0. 1. 0.]											
Z Axis Data	[ 0. 0.-1.]																	
Transfer Properties																		
Source																		
Read Only	No																	
Transformations																		
Base Configuration	Absolute																	
Transformed Configuration	[ 1.556 -6.0143e-014 ]	[ -9.7599 1.5819e-014 ]	[ -23.424 -2.4086e-014 ]	[ -53.923 148.96 -8. ]	[ 41.136 1.9775e-013 ]	[ 38.712 1.8776e-013 ]	[ -49.597 80.462 -8. ]	[ 32.712 1.7362e-013 ]	[ 75.755 3.2153e-013 ]	[ 82.514 3.4097e-013 ]	[ 84.902 3.5765e-013 ]							

TABLE 64  
Model (A4, B4) > Coordinate Systems > Coordinate System

Base Configuration	Transformations										
	Absolute										
Transformed Configuration	[101.24 0.0927e- 013 16.]	[116.36 4.5938e- 013 16.]	[126.85 - 9.8739e- 013 16.]	[126.85 4.9793e- 013 16.]	[114.51 4.5683e- 013 16.]	[136.18 5.3183e- 013 16.]	[73.139 - 53.027 - 8.]	[153.5 5.0949e- 013 8.]	[153.5 5.9382e- 013 16.]	[113.97 4.5484e- 013 16.]	[139.57 5.4336e- 013 16.]

TABLE 65  
 Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name State	Part1 DE 13699	Part1 DE 13731	Part1 DE 13763	Part1 DE 13795	DEPart1  DE 13827	13845	Part1  DE 13877	Part1  DE 13909	Part1  DE 13941	Part1 DE 13973	DEPart1  DE 13991								
Fully Defined																			
Type	Definition																		
Coordinate System	Cartesian																		
APDL Name	Program Controlled																		
Suppressed	No																		
Define By	Origin																		
Global Coordinates																			
Origin X	74.834 mm	161.64 mm		99.681 mm	126.12 mm	68.112 mm	150.28 mm		73.371 mm	97.467 mm	53.784 mm								
Origin Y	4.0534e-013	mm		16. mm	4.9631e-013	-100.76 mm	4.9738e-013	5.817e-013	3.1183e-013	3.9682e-013	-120.47 mm								
Origin Z	-77.337 mm	5.3638e-013	6.2027e-013	mm	mm	mm	mm	mm	mm	mm	mm								
Location	-8. mm				-8. mm			16. mm											
	Defined																		
Principal Axis																			
Axis	X																		
Define By	Fixed Vector																		
Orientation About Principal Axis																			
Axis	Y																		
Define By	Fixed Vector																		
Directional Vectors																			
X Axis Data	[ 3.2893e-002 0.99946 0. ]	[ -1. 0. 0. ]			[ 0.37274 0.92793 0. ]	[ -1. 0. 0. ]			[ 0.66764 0.74449 0. ]										
Y Axis Data	[ 0.99946 - 3.2893e-002 0. ]	[ 0. 1. 0. ]			[ 0.92793 -0.37274 0. ]	[ 0. 1. 0. ]			[ 0.74449 -0.66764 0. ]										
Z Axis Data	[0.0-1. ]																		
Transfer Properties																			
Source																			
Read Only	No																		
Transformations																			
Base Configuration	Absolute																		
Transformed Configuration	[ 74.834 - 77.337 - 8. ]	[ 161.64 5.3638e-013 -8. ]	[ 161.64 6.2027e-013 16. ]	[ 99.681 4.0534e-013 16. ]	[ 126.12 4.9631e-013 16. ]	[ 68.112 - 100.76 - 8. ]	[ 150.28 4.9738e-013 -8. ]	[ 150.28 5.817e-013 16. ]	[ 73.371 3.1183e-013 16. ]	[ 97.467 3.9682e-013 16. ]	[ 53.784 - 120.47 - 8. ]								

TABLE 66  
 Model (A4, B4) > Coordinate Systems > Coordinate System

Orientation About Principal Axis														
Axis	Y													
Define By	Fixed Vector													
Directional Vectors														
X Axis Data	[ -1. 0. 0. ]			[ 0.882 0.47124 0. ]	[ -1. 0. 0. ]									
Y Axis Data	[ 0. 1. 0. ]			[ 0.47124 -0.882 0. ]	[ 0. 1. 0. ]									
Z Axis Data	[ 0.0.-1. ]													
Transfer Properties														
Source														
Read Only	No													
Transformations														
Base Configuration	Absolute													
Transformed Configuration	[ 120.79 3.9209e- 013 8. ]	[ 120.79 4.7641e- 013 16. ]	[ 38.212 1.9121e- 013 16. ]	[ 57.054 2.6033e- 013 16. ]	[ 32.577 34.147e- 8. ]	[ 76.735 4.147e- 8. ]	[ 76.735 3.2837e- 013 16. ]	[ -1.556 5.229e- 013 16. ]	[ 9.7599 - 7.1888e- 014 8. ]	[ 9.7599 9.6614e- 014 16. ]	[ 23.424 3.3822e- 014 8. ]			

TABLE 67  
Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name State	Part1 DE 14351	Part1 DE 14383	Part1  DE 14415	Part1  DE 14433	Part1  DE 14465	Part1  DE 14497	Part1  DE 14545	Part1  DE 14577	Part1  DE 14625	Part1  DE 14657	Part1  DE 14689																		
Fully Defined																													
Definition																													
Type																													
Coordinate System																													
APDL Name																													
Suppressed																													
Origin																													
Define By																													
Global Coordinates																													
Origin X		23.424 mm	-41.136 mm	-38.712 mm		-32.712 mm	-75.755 mm	-82.514 mm	-84.902 mm	-101.24 mm	-116.36 mm																		
Origin Z		1.3652e-013 mm	8.5321e-014 mm	7.1055e-014 mm	-7.5327e-014 mm	-6.1187e-014 mm	2.091e-013 mm	2854e-2.4522e-013 mm	522e-013 mm	-2.9683e-013 mm	-3.4695e-013 mm																		
Location		16. mm	-8. mm	16. mm		16. mm																							
Defined																													
Principal Axis																													
Axis																													
X																													
Define By																													
Fixed Vector																													
Orientation About Principal Axis																													
Axis		Y																											
Define By																													
Fixed Vector																													
Directional Vectors																													
X Axis Data	[ -1. 0. 0. ]																												
Y Axis Data	[ 0. 1. 0. ]																												
Z Axis Data	[ 0.0.-1. ]																												
Transfer Properties																													
Source																													
Read Only	No																												
Transformations																													
Base Configuration	Absolute																												
Transformed Configuration	[ 23.424 1.3652e- 013 16. ]	[ -41.136 - 8.5321e- 014 8. ]	[ -38.712 7.1055e- 014 16. ]	[ -38.712 - 7.5327e- 014 16. ]	[ -32.712 - 6.1187e- 014 16. ]	[ -75.755 - 2.091e- 013 16. ]	[ -82.514 - 2.2854e- 013 16. ]	[ -84.902 - 2.4522e- 013 16. ]	[ -101.24 - 2.9683e- 013 16. ]	[ -116.36 - 3.4695e- 013 16. ]	[ -126.85 3.855e- 013 16. ]																		

TABLE 68  
Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name State	Part1 DE 14715	Part1 DE 14747	Part1  DE 14779	Part1  DE 14811	Part1  DE 14851	Part1  DE 14861	Part1  DE 14893	Part1  DE 14925	Part1  DE 14951	Part1  DE 14983	Part1  DE 15015
Fully Defined											
Definition											
Type											
Coordinate System											
APDL Name											
Suppressed											
Origin											
Define By											
Global Coordinates											
	15.153	-114.51	-136.18			-17.25	-113.97				

Origin X	mm	mm	mm	-153.5 mm		mm	mm	-139.57 mm		-161.64 mm														
Origin Y	-69.183 mm	-3.444e-013 mm	-4.194e-013 mm	-4.8139e-013 mm	-4.5277e-014 mm	29.317 mm	-3.4236e-013 mm	8.4396e-014 mm	-4.3092e-013 mm	-5.9259e-013 mm														
Origin Z	-8. mm	16. mm			-8. mm		16. mm	-8. mm	16. mm	16. mm														
Location	Defined																							
Principal Axis																								
Axis	X																							
Define By	Fixed Vector																							
Orientation About Principal Axis																								
Axis	Y																							
Define By	Fixed Vector																							
Directional Vectors																								
X Axis Data	[ 0.90845 0.41816. [ 0.418 -	[ -1. 0. 0. ]			[ 0.48566 0.87415 0. ]	[ -1. 0. 0. ]																		
Y Axis Data Z Axis Data	0.90845 0. ]	[ 0. 1. 0. ]			[ 0.87415 -0.48566 0. ]	[ 0. 1. 0. ]																		
		[ 0. 0. -1. ]																						
Transfer Properties																								
Source																								
Read Only	No																							
Transformations																								
Base Configuration	Absolute																							
Transformed Configuration	[ 15.153 - 69.183 - 013 16.]	[ -114.51 [ 3.444e- 013 16.]	[ -136.18 [ 4.194e- 013 16.]	[ -153.5 - 4.8139e- 013 16.]	[ -153.5 - 4.5277e- 014 -8. ]	[ -17.25 [ 29.317 - 8. ]	[ -113.97 [ 3.4236e- 013 16.]	[ -139.57 [ 8.4396e- 014 -8. ]	[ -139.57 [ 4.3092e- 013 16.]	[ -161.64 [ 5.9259e- 013 16.]														

TABLE 69  
Model (A4, B4) > Coordinate Systems > Coordinate System

TABLE 70  
Model (A4, B4) > Coordinate Systems > Coordinate System

Type	Cartesian									
Coordinate System	Program Controlled									
APDL Name	No									
Suppressed	Origin									
Define By	Global Coordinates									
Origin X	-57.054 mm	-76.735 mm	-118.59 mm	-17.265 mm	2.2345e-014 mm	-23.394 mm	-10.442 mm	5.5308e-014 mm	-114.87 mm	-21.435 mm
Origin Z Location	2.7521e-013 mm	1.479e-013 mm	2.1594e-013 mm	61.112 mm	64.433 mm	-1.6964e-014 mm	177.7 mm	-11.747 mm	6.0289 mm	-2.3103e-014 mm
	-8. mm	16. mm	-8. mm	86.933 mm			45. mm	-4. mm	-71.402 mm	71.402 mm
	Defined									
Axis	Principal Axis									
Define By	X									
Axis	Fixed Vector									
Define By	Orientation About Principal Axis									
Axis	Y									
Define By	Fixed Vector									
	Directional Vectors									
X Axis Data	[-1. 0. 0.]			[ -0.58035 0.81437 0.]	[ 0.25882 -0.96593 0.]	[ -0.25882 0.96593 0.]	[ 0. 0. -1.]	[ 0.86603 -0.5 0.]	[ -0.86603 0.5 0.]	[ 0. 0. -1.]
	[ -0.58035 0.81437 0.]			[ 0.25882 -0.96593 0.]	[ 0. 0. -1.]	[ 0.96593 0.25882 0.]	[ 0. 0. -1.]	[ 0.5 ]	[ 0.5 ]	[ 0.60876 -0.79335 0.]
Y Axis Data	[ 0. 1. 0.]			[ 0.81437 0.58035 0.]	[ 0. 0. -1.]	[ 0.96593 0.25882 0.]	[ 0. 0. -1.]	[ 0.13053 -0.99144 0.]	[ 0. 0. -1.]	[ 0.79335 -0.60876 0.]
Z Axis Data	[ 0. 0.-1.]			[ 0.96593 0.25882 0.]	[ 0. 0. -1.]	[ 0.99144 -0.13053 0.]	[ 0. 0. -1.]	[ 0.5 0.86603 0.]	[ 0. 0. -1.]	[ -0.60876 -0.79335 0.]
	Transfer Properties									
Source										
Read Only	No									
	Transformations									
Base Configuration	Absolute									
Transformed Configuration	[ -57.054 2.7521e-013 -8.]	[ -57.054 1.479e-013 16.]	[ -76.735 -2.1594e-013 16.]	[ -118.59 61.112 -8.]	[ -17.265 64.433 86.933]	[ 2.2345e-014 1.6964e-014 177.7]	[ -23.394 -11.747 45.]	[ -10.442 6.0289 45.]	[ 5.5308e-014 -2.3103e-014 -4.]	[ -114.87 88.142 -71.402]

TABLE 71  
Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name State	Part1  DE 15553	Part1  DE 15559	Part1  DE 15579	Part1  DE 15585	Part1  DE 15591	Part1  DE 15611	Part1  DE 15617	Part1  DE 15623	Part1  DE 15643	Part1  DE 15649	Part1  DE 15655
Fully Defined											
Type	Definition										
Coordinate System	Cartesian										
APDL Name	Program Controlled										
Suppressed	No										
Define By	Origin										
Origin X	Global Coordinates										
Origin Z Location	[ 0.4596e-013 mm -2.1979e-013 mm ]	[ -83.971 mm 145.44 mm ]	[ -0.76338 mm 0.1005 mm ]	[ 1.1707e-014 mm 1.1505e-014 mm ]	[ -109.43 mm 29.323 mm ]	[ -2.9622 mm -0.79371 mm ]	[ -5.4152e-015 mm 1.3374e-014 mm ]	[ -77.583 mm -10.214 mm ]	[ -14.755 mm -11.322 mm ]	[ 1.9643e-013 mm 1.3054e-013 mm ]	[ -38.971 mm -22.5 mm ]
	[ -4. mm ]	[ 11.747 mm ]	[ -4. mm ]	[ -86.933 mm ]	[ -23.294 mm ]		[ -89.23 mm ]	[ -54.789 mm ]	[ -4. mm ]	[ -77.942 mm ]	
	Defined										
Axis	Principal Axis										
Define By	X										
Axis	Fixed Vector										
Define By	Orientation About Principal Axis										
Axis	Y										
Define By	Fixed Vector										
	Directional Vectors										
X Axis Data	[ -0.60876 0.79335 0.]	[ 0. 0. -1.]	[ 0.99144 -0.13053 0.]	[ -0.99144 0.13053 0.]	[ 0. 0. -1.]	[ 0.96593 -0.25882 0.]	[ -0.25882 0.96593 0.]	[ 0. 0. -1.]	[ 0.79335 0.60876 0.]	[ -0.79335 -0.60876 0.]	[ 0. 0. -1.]

Y Axis Data	[ 0.79335 0.60876 0.]	[ 0.5 - 0.86603 0.]	[ 0.0 - 1.]	[ 0.13053 0.99144 0.]	[ 0.96593 -0.25882 0.]	[ 0.0 - 1.]	[ - 0.25882 0.96593 0.]	[ 0.99144 0.13053 0.]	[ 0.0 - 1.]	[ - 0.60876 0.79335 0.]	[ 0.86603 0.50 .]
Z Axis Data	[ 0.0 -1.]	[ - 0.86603 0.99144 -0.50 .]	[ 0.13053 0.99144 0.]	[ 0.0 -1.]	[ - 0.25882 0.96593 0.]	[ 0.25882 0.96593 0.]	[ 0.0 - 1.]	[ 0.13053 -0.99144 0.]	[ 0.60876 0.79335 0.]	[ 0.0 -1.]	[ 0.5 - 0.86603 0.]
Transfer Properties											
Source											
Read Only											
Transformations											
Base Configuration											
Absolute											
Transformed Configuration	[ 1.4696e-013- 2.1979e-013-4.]	[ - 83.971 145.44 - 45. ]	[ - 0.76338 0.1005 11.747 ]	[ 1.1707e-014 1.1505e-014 -4.]	[ -109.43 29.323 - 86.933 ]	[ -2.9622 -0.79371 -23.294 ]	[ - 5.4152 015 1.3374e-014 -4.]	[ - -77.583 -10.214 - 89.23 ]	[ - -14.755 -11.322 - 54.789 ]	[ 1.9643e-013 1.3054e-013-4.]	[ -38.971 -22.5 - 77.942 ]

TABLE 72  
Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name	Part1  DE 15675	Part1  DE 15681	Part1  DE 15687	Part1  DE 15707	Part1  DE 15713	Part1  DE 15719	Part1  DE 15739	Part1  DE 15745	Part1  DE 15751	Part1  DE 15771	Part1  DE 15777
State											
Fully Defined											
Definition											
Type	Cartesian										
Coordinate System	Program Controlled										
APDL Name											
Suppressed											
Origin											
Define By	Global Coordinates										
Origin X	-22.5 mm	4.3248e-015 mm	-11.322 mm	-10.214 mm	-2.2839e-014 mm	-0.79371 mm	29.323 mm	-1.8753e-014 mm	0.1005 mm	145.44 mm	-4.1912e-014 mm
Origin Y	-38.971 mm	3.294e-014 mm	-14.755 mm	-77.583 mm	-1.1634e-014 mm	-2.9622 mm	-109.43 mm	-2.4202e-014 mm	-0.76338 mm	-83.971 mm	-1.0535e-015 mm
Location	-77.942 mm	-4. mm	-54.789 mm	-89.23 mm		-23.294 mm	-86.933 mm	-4. mm	11.747 mm	-45. mm	-4. mm
Defined											
Principal Axis											
Axis	X										
Define By	Fixed Vector										
Orientation About Principal Axis											
Axis	Y										
Define By	Fixed Vector										
Directional Vectors											
X Axis Data	[ 0.5 0.86603 0.]	[ -0.5 - 0.86603 0.]	[ 0.0 -1.]	[ 0.13053 0.99144 0.]	[ -0.13053 -0.99144 0.]	[ 0.0 -1.]	[ - 0.25882 0.96593 0.]	[ 0.25882 -0.96593 0.]	[ 0.0 -1.]	[ - 0.86603 0.50 . 0.]	[ 0.86603 -0.50 .]
Y Axis Data	[ 0.0 - 1.]	[ - -0.86603 0.50 .]	[ 0.60876 0.79335 0.]	[ 0.0 -1.]	[ - -0.99144 0.13053 0.]	[ 0.25882 0.96593 0.]	[ 0.0 - -0.96593 1.]	[ - -0.96593 -0.25882 0.]	[ - -0.13053 0.99144 0.]	[ - -0.5 -	[ 0.86603 0.]
Z Axis Data	0.86603 0.50 .]	[ 0.0 -1.]	[ 0.79335 -0.60876 0.]	[ - -0.99144 0.13053 0.]	[ 0.0 -1.]	[ 0.96593 -0.25882 0.]	[ - 0.96593 -0.25882 0.]	[ 0.0 -1.]	[ 0.99144 0.13053 0.]	[ 0.86603 0.]	[ 0.0 -1.]
Transfer Properties											
Source											
Read Only											
Transformations											
Base Configuration											
Transformed Configuration	[ -22.5 - 38.971 ]	[ 4.3248e-015 3.294e-014 -4.]	[ -11.322 - 14.755 - 54.789 ]	[ -10.214 - -77.583 - 89.23 ]	[ - 2.2839e-014 - 1.1634e-014 -4.]	[ - -0.79371 - -2.9622 - -23.294 ]	[ 29.323 - -109.43 - -86.933 ]	[ - 1.8753e-014 - 2.4202e-014 - 11.747 ]	[ 0.1005 - -0.76338 11.747 ]	[ 145.44 - -83.971 - -45. ]	[ 4.1912e-014 - 1.0535e-015 -4.]

TABLE 73  
Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name	Part1  DE 15783	Part1  DE 15803	Part1  DE 15809	Part1  DE 15815	Part1  DE 15835	Part1  DE 15841	Part1  DE 15847	Part1  DE 15847	Part1  DE 15867	Part1  DE 15873	Part1  DE 15879	Part1  DE 15899
State												

Fully Defined

Definition											
Type	Cartesian										
Coordinate System	Program Controlled										
APDL Name											
Suppressed	No										
Origin											
Define By	Global Coordinates										
Origin X	27.935 mm	88.142 mm	-1.3493e-013 mm	6.0289 mm	177.7 mm	-4.781e-015 mm	64.433 mm	170.9 mm	1.8225e-015 mm	100.88 mm	128.05 mm
Origin Y	-21.435 mm	-114.87 mm	1.8508e-013 mm	-10.442 mm	-23.394 mm	-2.7239e-014 mm	-17.265 mm	45.794 mm	-2.7724e-014 mm	13.281 mm	98.255 mm
Origin Z	71.402 mm	-71.402 mm	-4. mm	45. mm	-11.747 mm		86.933 mm	23.294 mm		89.23 mm	54.789 mm
Location	Defined										
Principal Axis											
Axis	X										
Define By	Fixed Vector										
Axis	Orientation About Principal Axis										
Define By	Y										
Axis	Fixed Vector										
Directional Vectors											
X Axis Data	[0. 0. -1.]	[0.60876 0.79335 0.]	[0.60876 -0.79335 0.]	[0. 0. -1.]	[-0.99144 0.13053 0.]	[0.99144 0.13053 0.]	[0. 0. -1.]	[-0.96593 0.25882 0.]	[0.96593 0.25882 0.]	[0.9. -1. 0.]	[0.79335 0.60876 0.]
Y Axis Data	[-0.79335 0.60876 0.]	[0. 0. -1.]	[-0.79335 -0.60876 0.]	[-0.5 0.86603 0.]	[-0.13053 0.13053 0.]	[-0.13053 -0.99144 0.]	[-0.96593 0.25882 0.]	[0. 0. -1.]	0.96593 0.25882 0.]	0.99144 -0.13053 0.]	[0. 0. -1.]
Z Axis Data	[0.60876 0.79335 0.]	[-0.79335 -0.60876 0.]	[0. 0. -1.]	[0.86603 0.5 0.]	[-0.99144 0.]	[0. 0. -1.]	[-0.96593 0.25882 0.]	[-0.96593 0.25882 0.]	[0. 0. -1.]	0.99144 0.13053 0.]	[0.60876 0.79335 0.]
Transfer Properties											
Source											
Read Only	No										
Transformations											
Base Configuration	Absolute										
Transformed Configuration	[27.935 -21.435 71.402]	[88.142 -114.87 -71.402]	[1.3493e-013 1.8508e-013-4.]	[6.0289 -10.442 45.]	[177.7 -23.394 -11.747]	[-4.781e-015 -2.7239e-014 -0.14 -4.]	[64.433 -17.265 86.933]	[170.9 45.794 23.294]	[1.8225e-015 -2.7724e-014 -0.14 -4.]	[100.88 13.281 89.23]	[128.05 98.255 54.789]

TABLE 74  
Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name	Part1  DE 15905	Part1  DE 15911	Part1  DE 15931	Part1  DE 15937	Part1  DE 15943	Part1  DE 15943	Part1  DE 15963	Part1  DE 15969	Part1  DE 15975	Part1  DE 15995	Part1  DE 16005	Part1  DE 16011		
State	Fully Defined													
Type	Cartesian													
Coordinate System	Program Controlled													
APDL Name														
Suppressed	No													
Define By	Origin													
Origin X	-2.0845e-013 mm	116.91 mm	67.5 mm	-1.7725e-014 mm	98.255 mm	13.281 mm	1.5905e-014 mm	45.794 mm	-49 mm	0. mm	-129 mm	-9.0779e-014 mm		
Origin Y	-1.5136e-013 mm			-6.4281e-014 mm	128.05 mm	100.88 mm	-2.8122e-014 mm	89.23 mm	170.9 mm	12. mm		014 mm		
Origin Z	-4. mm	77.942 mm		-4. mm	54.789 mm				23.294 mm	61. mm	12. mm	26. mm		
Location	Defined													
Principal Axis														
Axis	X													
Define By	Fixed Vector													
Axis	Orientation About Principal Axis													
Define By	Y													
Axis	Fixed Vector													
Directional Vectors														
X Axis Data	[0.79335 0.60876]	[0. 0. -]	[-0.5- 0.86603]	[0.5 0.86603]	[0. 0. -]	[-0.13053 -0.99144]	[0.13053]	[0. 0. -]	[0. 0. -]	[0. 0. -]	[1. 0. 0.]			

	0.]	1.]	0.]	0.]	1.]	0.]	0.99144 0.]	1.]	1.]		
Y Axis Data	[ 0.60876 - 0.79335 0.]	[ - 0.86603 - 0.5 0.]	[ 0.0. -1.]	[ 0.86603 - 0.5 0.]	[ - 0.60876 - 0.79335 0.]	[ 0.0. -1.]	[ 0.99144 - 0.13053 0.]	[ - 0.25882 - 0.96593 0.]	[ - 1.0. 0.]	[ 0.0. 1.]	[ 0. -1. 0.]
Z Axis Data	[ 0.0. -1.]	[ - 0.5 0.86603 0.]	[ 0.86603 - 0.5 0.]	[ 0.0. -1.]	[ - 0.79335 0.60876 0.]	[ 0.99144 - 0.13053 0.]	[ 0.0. -1.]	[ - 0.96593 0.25882 0.]	[ 0. -1. 0.]	[ 0.0. -1.]	
Transfer Properties											
Source											
Read Only											
Transformations											
Base Configuration	Absolute										
Transformed Configuration	[ -2.0845e-013 - 1.5136e-013 -4.]	[ 116.91 67.5 77.942 ]	[ 67.5 116.91 77.942 ]	[ -1.7725e-014 - 6.4281e-014 -4.]	[ 98.255 128.05 54.789 ]	[ 13.281 100.88 89.23 ]	[ 1.5905e-014 - 2.8122e-014 -4.]	[ 45.794 170.9 23.294 ]	[ -49. 12. 61. ]	[ 0.12. 12. ]	[ -1.1231e-029 - 9.0779e-014 26. ]

TABLE 75  
Model (A4, B4) > Coordinate Systems > Coordinate System

Object Name State	Part1  DE 16027	Part1  DE 16033	Part1  DE 16043	Part1  DE 16059	Part1  DE 16069	Part1  DE 16075	Part1  DE 16091	Part1  DE 16101	Part1  DE 16107	Part1  DE 16127	Part1  DE 16167										
Fully Defined																					
Definition																					
Type																					
Coordinate System																					
APDL Name																					
Suppressed																					
Origin																					
Define By																					
Global Coordinates																					
Origin X	0. mm	51. mm	-1.9259e-031 mm	-178. mm	89. mm	0. mm	-89. mm	0. mm	-6.8798e-030 mm	0. mm	4.7034e-030 mm										
Origin Y	5.5864e-014 mm	-9. mm		-7. mm		4.8881e-014 mm	7. mm		-5.5864e-014 mm	9.0779e-014 mm	-3.8406e-014 mm										
Origin Z Location	16. mm	60. mm	9. mm	-7. mm	82. mm	-14. mm	96. mm	7. mm	16. mm	26. mm	-11. mm										
Defined																					
Principal Axis																					
Axis	X																				
Define By	Fixed Vector																				
Orientation About Principal Axis																					
Axis	Y																				
Define By	Fixed Vector																				
Directional Vectors																					
X Axis Data	[ -1. 0. 0.]	[ 0. 9. -]	[ 1. 0. 0.]	[ -1. 0. 0.]	[ 0. 9. -]	[ 1. 0. 1.]	[ 1. 0. 0.]			[ -1. 0. 0.]											
Y Axis Data	[ 0. 1. 0.]	[ -1. 0. 0.]	[ 0. 0. -1.]		[ 1. 0. 0.]	[ 0. 0. -1.]	[ -1. 0. 0.]	[ 0. 0. 1.]	[ 0. -1. 0.]	[ 0. 1. 0.]											
Z Axis Data	[ 0. 0. -1.]	[ 0. 1. 0.]		[ 0. -1. 0.]		[ 0. -1. 0.]		[ 0. 0. -1.]		[ 0. 0. -1.]											
Transfer Properties																					
Source																					
Read Only	No																				
Transformations																					
Base Configuration	Absolute																				
Transformed Configuration	[ 0. 5.5864e-014 16.]	[ 51. -9. 60.]	[ -1.9259e-031 -9. 9.]	[ -178. -7. -7.]	[ 89. -7. 82.]	[ 0. 4.8881e-014 -]	[ -89. 7. 96.]	[ 0.7. 7.]	[ -6.8798e-030 -5.5864e-014 16.]	[ 0. 9.0779e-014 26.]	[ 4.7034e-030 -3.8406e-014 -11.]										

## Mesh

TABLE 76  
Model (A4, B4) > Mesh

Object Name State	Mesh Solved
Display	
Display Style	Use Geometry Setting
Defaults	
Physics Preference	Mechanical
Element Order	Program Controlled
Element Size	Default

Sizing	
Use AdaptiveSizing	Yes
Resolution	Default (2)
Mesh Defeaturing	Yes
Defeature Size	Default
Transition	Fast
Span Angle Center	Coarse
Initial Size Seed	Assembly
Bounding Box Diagonal	255.42 mm
Average Surface Area	241.44 mm <sup>2</sup>
Minimum Edge Length	9.1207e-003 mm
Quality	
Check Mesh Quality	Yes, Errors
Error Limits	Aggressive Mechanical
Target Element Quality	Default (5.e-002)
Smoothing	Medium
Mesh Metric	None
Inflation	
Use Automatic Inflation	None
Inflation Option	Smooth Transition
Transition Ratio	0.272
Maximum Layers	5
Growth Rate	1.2
Inflation Algorithm	Pre
Inflation Element Type	Wedges
View Advanced Options	No
Advanced	
Number of CPUs for Parallel Part Meshing	Program Controlled
Straight Sided Elements	No
Rigid Body Behavior	Dimensionally Reduced
Triangle Surface Mesher	Program Controlled
Topology Checking	Yes
Pinch Tolerance	Please Define
Generate Pinch on Refresh	No
Auto-Map Fillets	No
Automatic Methods	
Sheet Body Method	Prime Quad Dominant
Sweepable Body Method	Sweep
Statistics	
Nodes	39030
Elements	21095
Show Detailed Statistics	No

## Named Selections

TABLE 77  
Model (A4, B4) > Named Selections > Named Selections

Object Name	Color:201.209.238	Layer:0
State	Fully Defined	
Scope		
Scoping Method	Geometry Selection	
Geometry	363 Faces	
Definition		
Send to Solver	Yes	
Protected	Program Controlled	
Visible	Yes	
Program Controlled Inflation	Exclude	
Statistics		
Type	Imported	
Total Selection	363 Faces	
Surface Area	87641 mm <sup>2</sup>	
Suppressed	0	
Used by Mesh Worksheet	No	

## Steady-State Thermal (A5)

TABLE 78  
Model (A4, B4) > Analysis

Object Name	Steady-StateThermal (A5)
State	Solved
Definition	
Physics Type	Thermal

Analysis Type	Steady-State
Solver Target	Mechanical APDL
Options	
Generate Input Only	No

TABLE 79  
Model (A4, B4) > Steady-State Thermal (A5) > Initial Condition

Object Name	Initial Temperature
State	Fully Defined
Definition	
Initial Temperature	Uniform Temperature
Initial Temperature Value	22. °C

TABLE 80  
Model (A4, B4) > Steady-State Thermal (A5) > Analysis Settings

Object Name	Analysis Settings
State	Fully Defined
Step Controls	
Number Of Steps	1.
Current Step Number	1.
Step End Time	1. s
Auto Time Stepping	Program Controlled
Solver Controls	
Solver Type	Program
Solver Pivot Checking	Controlled
Radiosity Solver	Program
Flux Convergence	Program Controlled
Maximum Iteration	1.e-004
Solver Tolerance	1000.
Over Relaxation	1.e-007 W/mm <sup>2</sup>
Hemicube Resolution	0.1
Nonlinear Controls	
Heat Convergence	Program
Temperature Convergence	Controlled
Line Search	Program
Advanced Controls	
Contact Split (DMP)	Program Controlled
Output Controls	
Output Selection	None
Calculate Thermal Flux	Yes
Contact Data	Yes
Nodal Forces	No
Volume and Energy	Yes
Euler Angles	Yes
General Miscellaneous	No
Contact Miscellaneous	No
Store Results At	All Time Points
Result File Compression	Program Controlled
Analysis Data Management	
Solver Files Directory	C:\Users\91905\OneDrive\Desktop\Disk Break\disk break_files\dp0\SYS\MECH\
Future Analysis	None
Scratch Solver Files Directory	
Save MAPDL db	No
Contact Summary	Program Controlled
Delete Unneeded Files	Yes
Nonlinear Solution	Yes
Solver Units	Active System
Solver Unit System	nmm

TABLE 81  
Model (A4, B4) > Steady-State Thermal (A5) > Loads

Object Name	Temperature	Convection
State	Fully Defined	
Scope		
Scoping Method	Geometry Selection	
Geometry	1 Face	
Definition		
Type Temperature	Convection	
Magnitude	100. °C (ramped)	
Suppressed	No	
Film Coefficient	Tabular Data	
Coefficient Type	Difference of Surface and Bulk Temp	

Ambient Temperature	22. °C (ramped)
Convection Matrix	Program Controlled
Element APDL Name	
Edit Data For	Film Coefficient
	Tabular Data
Independent Variable	Temperature
	Graph Controls
X-Axis	

FIGURE 1  
Model (A4, B4) > Steady-State Thermal (A5) > Temperature

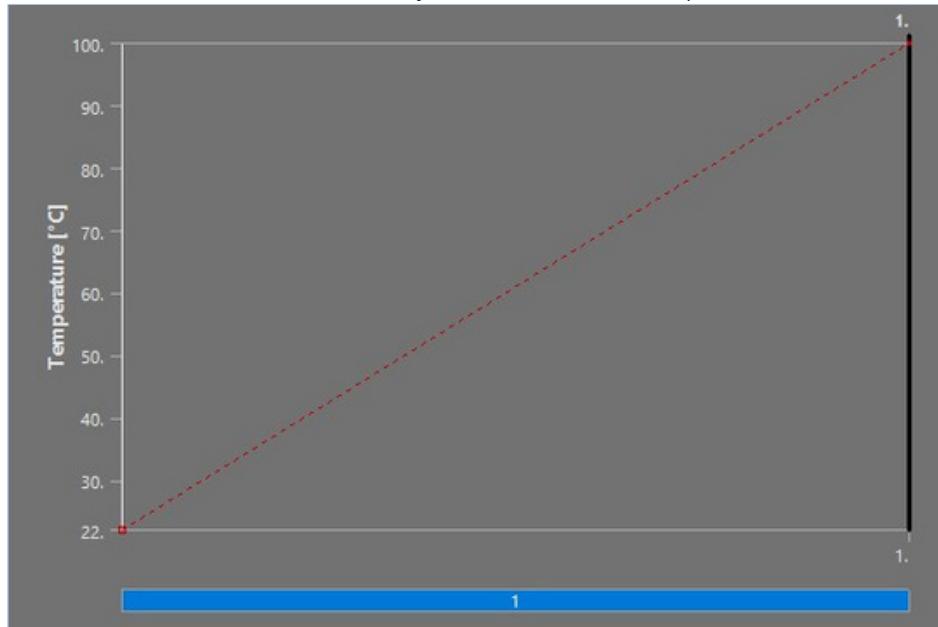


FIGURE 2  
Model (A4, B4) > Steady-State Thermal (A5) > Convection

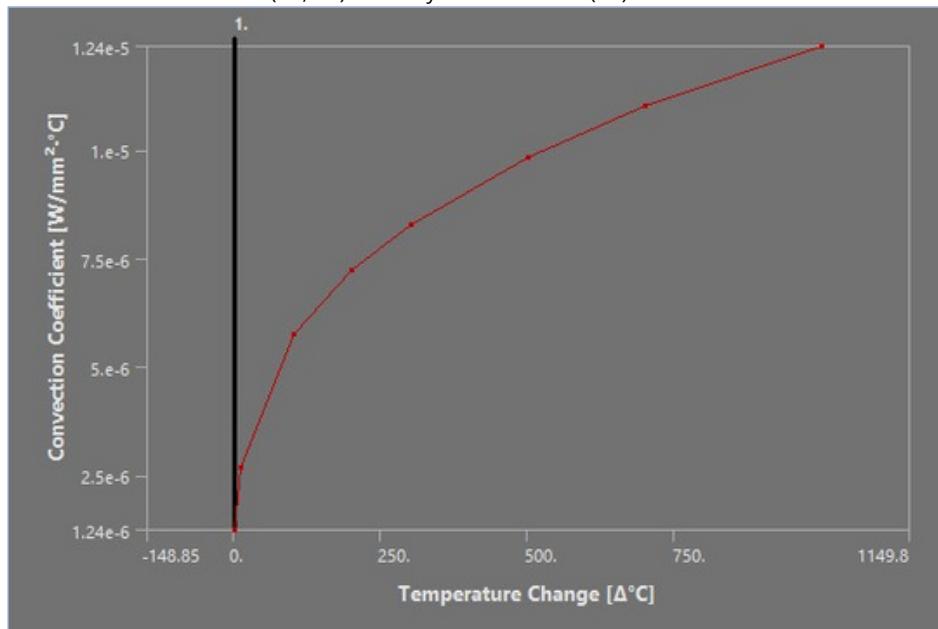


TABLE 82  
Model (A4, B4) > Steady-State Thermal (A5) > Convection

Temperature Change [Δ°C]	Convection Coefficient [W/mm <sup>2</sup> ·°C]
1.	1.24e-006
10.	2.67e-006
100.	5.76e-006
200.	7.25e-006
300.	8.3e-006
500.	9.84e-006
700.	1.101e-005
1000.	1.24e-005

## Solution (A6)

TABLE 83  
Model (A4, B4) > Steady-State Thermal (A5) > Solution

Object Name	Solution (A6)
State	Solved
Adaptive Mesh Refinement	
MaxRefinement Loops	1.
Refinement Depth	2.
Information	
Status	Done
MAPDL Elapsed Time	27. s
MAPDL Memory Used	443. MB
MAPDL Result File Size	8.9375 MB
Post Processing	
Beam Section Results	N
On Demand Stress/Strain	O
	N

TABLE 84 O  
Model (A4, B4) > Steady-State Thermal (A5) > Solution (A6) > Solution Information

Object Name	Solution Information
State	Solved
Solution Information	
Solution Output	Solver Output
Update Interval	2.5 s
Display Points	All
FE Connection Visibility	
Activate Visibility	Yes
Display	All FE Connectors
Draw Connections Attached To	All Nodes
Line Color	Connection Type
Visible on Results	No
Line Thickness	Single
Display Type	Lines

TABLE 85  
Model (A4, B4) > Steady-State Thermal (A5) > Solution (A6) > Results

Object Name	Temperature
State	Solved
Scope	
Scoping Method	Geometry Selection
Geometry	All Bodies
Definition	
Type	Temperature
By	Time
Display Time	Last
Separate Data by Entity	No
Calculate Time History	Yes
Identifier	
Suppressed	No
Results	
Minimum	99.905 °C
Maximum	100. °C
Average	99.991 °C
Minimum Occurs On	Part1 Solid
Maximum Occurs On	Part1 Solid
Information	
Time	1. s
Load Step	1
Substep	1
Iteration Number	2

FIGURE 3  
Model (A4, B4) > Steady-State Thermal (A5) > Solution (A6) > Temperature

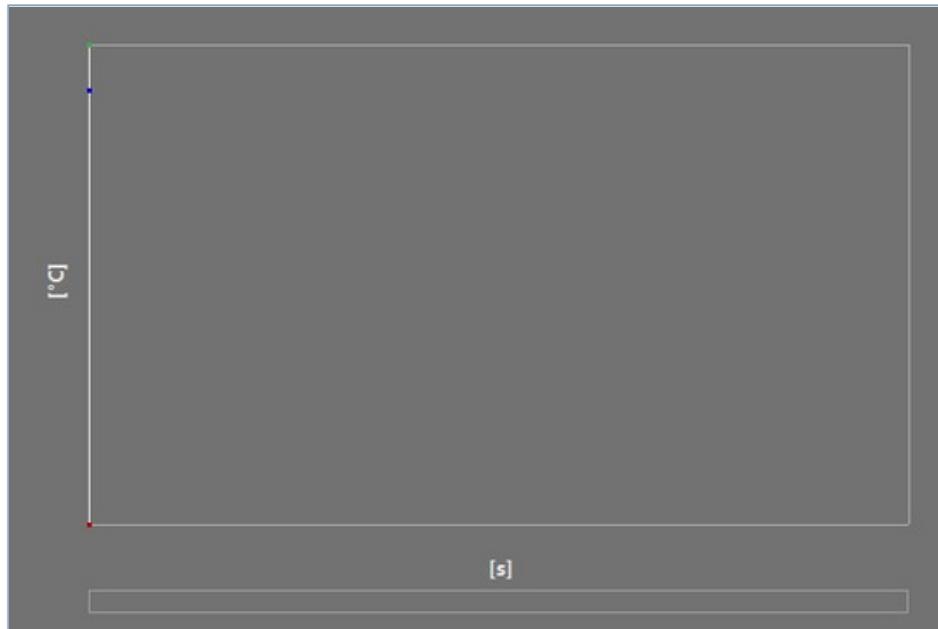


TABLE 86  
Model (A4, B4) > Steady-State Thermal (A5) > Solution (A6) > Temperature

Time [s]	Minimum [°C]	Maximum [°C]	Average [°C]
1.	99.905	100.	99.991

## Static Structural (B5)

TABLE 87  
Model (A4, B4) > Analysis

Object Name	Static Structural (B5)
State	Solved
Definition	
Physics Type	Structural
Analysis Type	Static Structural
Solver Target	Mechanical APDL
Options	
Environment Temperature	22. °C
Generate Input Only	No

TABLE 88  
Model (A4, B4) > Static Structural (B5) > Analysis Settings

Object Name	Analysis Settings
State	Fully Defined
Step Controls	
Number Of Steps	1.
Current Step Number	1.
Step End Time	1. s
Auto Time Stepping	Program Controlled
Solver Controls	
Solver Type	Program Controlled
Weak Springs	Off
Solver Pivot Checking	Program Controlled
Large Deflection	Off
Inertia Relief	Off
Quasi-Static Solution	Off
Rotordynamics Controls	
Coriolis Effect	Off
Restart Controls	
Generate Restart Points	Program Controlled
Retain Files After Full Solve	No
Combine Restart Files	Program Controlled
Nonlinear Controls	
Newton-Raphson Option	Program
Force Convergence	Controlled
Moment Convergence	Program
Displacement Convergence	Controlled
Rotation Convergence	Program
Line Search	Controlled
Program	Controlled
Controlled	Program
Controlled	Program
Program	Controlled
Controlled	Program

Stabilization		Program Controlled
Advanced		
Inverse Option		No
Contact Split (DMP)		Program Controlled
Output Controls		
Output Selection	None	
Stress	Yes	
Back Stress	No	
Strain	Yes	
Contact Data	Yes	
Nonlinear Data	No	
Nodal Forces	No	
Volume and Energy	Yes	
Euler Angles	Yes	
General Miscellaneous	No	
Contact Miscellaneous	No	
Store Results At	All Time Points	
Result File Compression	Program Controlled	
Analysis Data Management		
Solver Files Directory	C:\Users\91905\OneDrive\Desktop\Disk Break\disk break_files\dp0\SYS-1\MECH\	
Future Analysis	None	
Scratch Solver Files Directory		
Save MAPDL db	No	
Contact Summary	Program Controlled	
Delete Unneeded Files	Yes	
Nonlinear Solution	No	
Solver Units	Active System	
Solver Unit System	nmm	

TABLE 89  
Model (A4, B4) > Static Structural (B5) > Rotations

Object Name	Rotational Velocity
State	Fully Defined
Scope	
Scoping Method	Geometry Selection
Geometry	All Bodies
Definition	
Define By	Vector
Magnitude	100. rad/s (ramped)
Axis	Defined
Suppressed	No

FIGURE 4  
Model (A4, B4) > Static Structural (B5) > Rotational Velocity

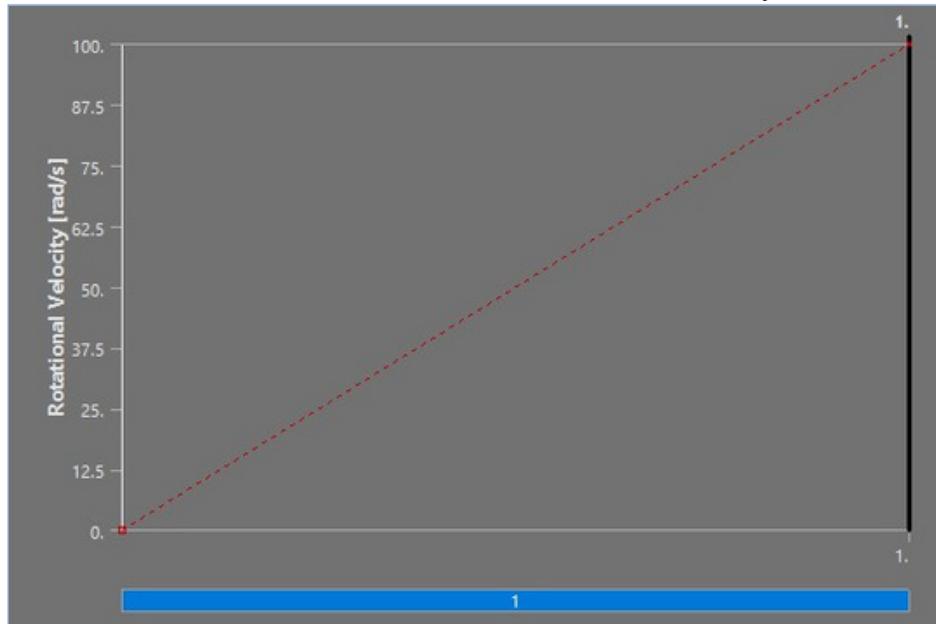


TABLE 90  
Model (A4, B4) > Static Structural (B5) > Loads

Object Name	Fixed Support	Pressure 1	Pressure 2
State	Fully Defined		

Scope	
Scoping Method	Geometry Selection
Geometry	10 Faces
Definition	
Type	Fixed Support
Suppressed	No
Define By	Normal To
Applied By	Surface Effect
Loaded Area	Deformed
Magnitude	0.5 MPa (ramped)

FIGURE 5  
Model (A4, B4) > Static Structural (B5) > Pressure

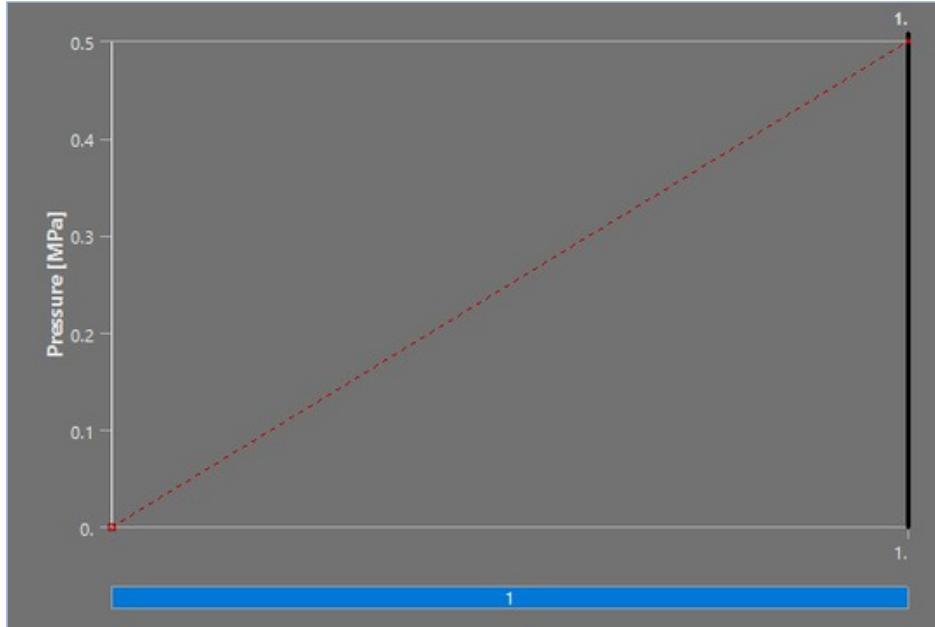


FIGURE 6  
Model (A4, B4) > Static Structural (B5) > Pressure 2

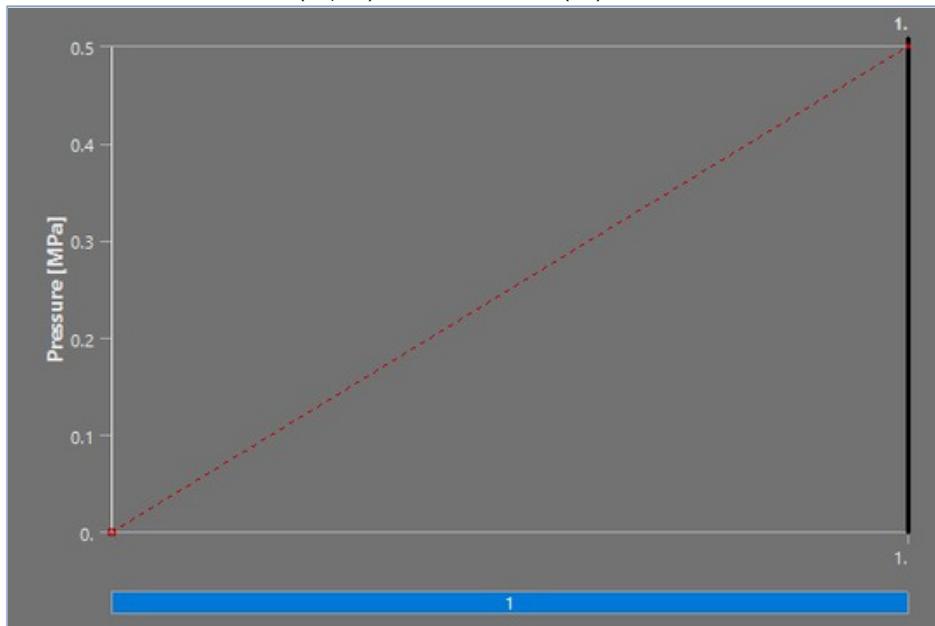


TABLE 91  
Model (A4, B4) > Static Structural (B5) > Imported Load (A6)

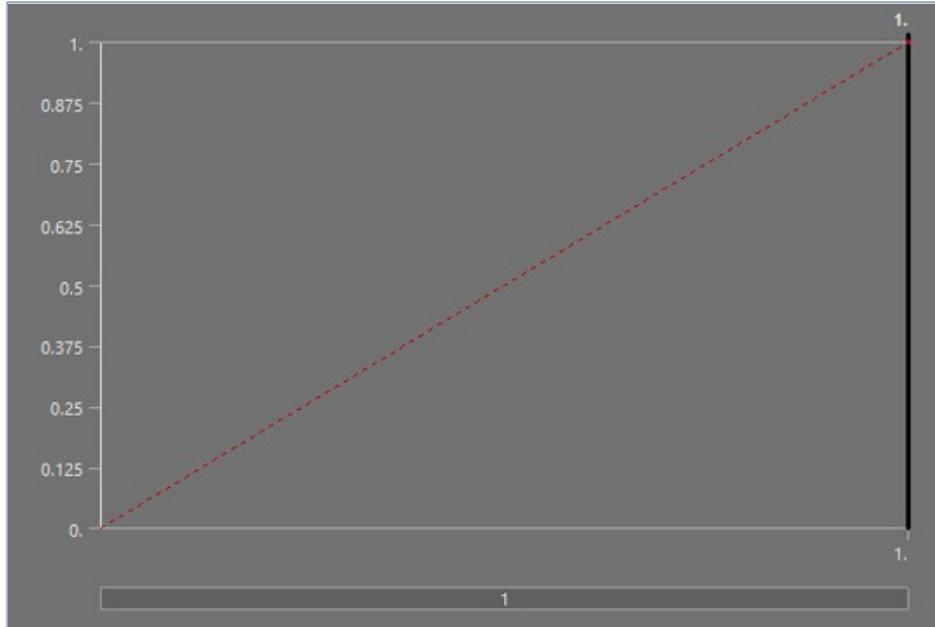
Object Name	Imported Load (A6)
State	Fully Defined
Definition	
Type	Imported Data
Interpolation Type	Mechanical Results Transfer
Suppressed	No
Source	A6:S:Solution

Data Management	
Delete Mapped DataFiles	Yes

TABLE 92  
Model (A4, B4) > Static Structural (B5) > Imported Load (A6) > Imported Body Temperature

Object Name	Imported Body Temperature
State	Solved
Scope	
Scoping Method	Geometry Selection
Geometry	1 Body
Definition	
Type	Imported Body Temperature
Tabular Loading	Program Controlled
Mapped Data	To Input File
Suppressed	No
Source Environment	Steady-State Thermal (A5)
Source Time	Worksheet

FIGURE 7  
Model (A4, B4) > Static Structural (B5) > Imported Load (A6) > Imported Body Temperature



Model (A4, B4) > Static Structural (B5) > Imported Load (A6) > Imported Body Temperature

Source Time(s)	Analysis Time(s)	Scale	Offset (Δ°C)
1	End Time	1	1
*			0

## Solution (B6)

TABLE 93  
Model (A4, B4) > Static Structural (B5) > Solution

Object Name	Solution (B6)
State	Solved
Adaptive Mesh Refinement	
MaxRefinement Loops	1.
Refinement Depth	2.
Information	
Status	Done
MAPDL Elapsed Time	35. s
MAPDL Memory Used	368. MB
MAPDL Result File Size	15.938 MB
Post Processing	
Beam Section Results	No
On Demand Stress/Strain	No

TABLE 94  
Model (A4, B4) > Static Structural (B5) > Solution (B6) > Solution Information

Object Name	Solution Information
State	Solved
Solution Information	

Solution Output	Solver Output
Newton-Raphson Residuals	0
Identify Element Violations	0
Update Interval	2.5 s
Display Points	All
FE Connection Visibility	
Activate Visibility	Yes
Display	All FE Connectors
Draw Connections Attached To	All Nodes
Line Color	Connection Type
Visible on Results	No
Line Thickness	Single
Display Type	Lines

TABLE 95  
Model (A4, B4) > Static Structural (B5) > Solution (B6) > Results

Object Name	Total Deformation	Equivalent Stress
State	Solved	
Scope		
Scoping Method	Geometry Selection	
Geometry	All Bodies	
Definition		
Type	Total Deformation	Equivalent (von-Mises) Stress
By	Time	
Display Time	Last	
Separate Data by Entity	No	
Calculate Time History	Yes	
Identifier		
Suppressed	No	
Results		
Minimum	0. mm	1.1227 MPa
Maximum	6.7061e-002 mm	621.02 MPa
Average	4.5413e-002 mm	69.235 MPa
Minimum Occurs On	Part1   Soli	
Maximum Occurs On	d	
Information		
Time	1. s	d
Load Step	1	
Substep	1	
Iteration Number		
Integration Point Results		
Display Option		Averaged
Average Across Bodies		No

FIGURE 8  
Model (A4, B4) > Static Structural (B5) > Solution (B6) > Total Deformation

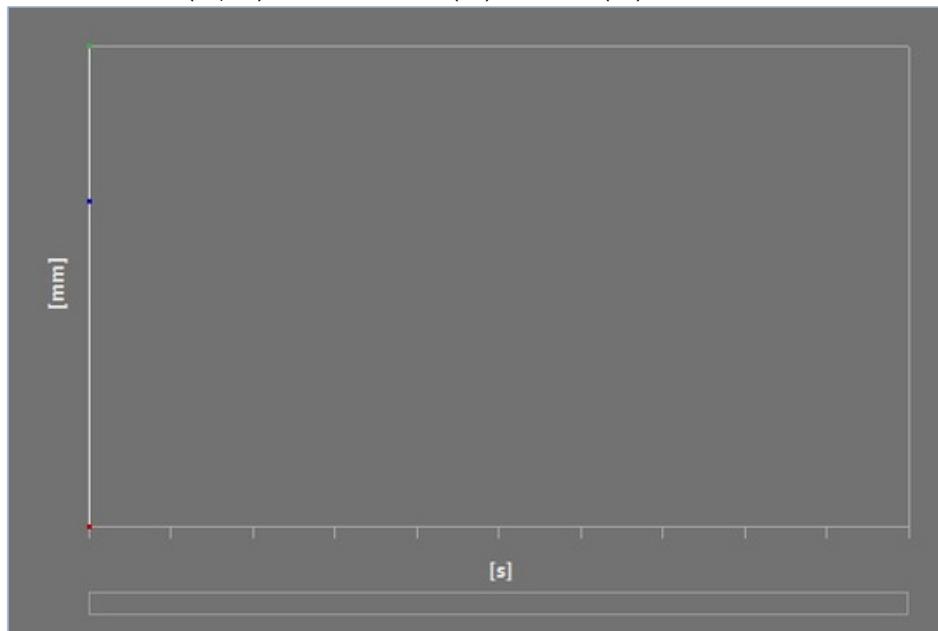


TABLE 96  
Model (A4, B4) > Static Structural (B5) > Solution (B6) > Total Deformation

Time [s]	Minimum [mm]	Maximum [mm]	Average [mm]
1.	0.	6.7061e-002	4.5413e-002

FIGURE 9  
Model (A4, B4) > Static Structural (B5) > Solution (B6) > Equivalent Stress

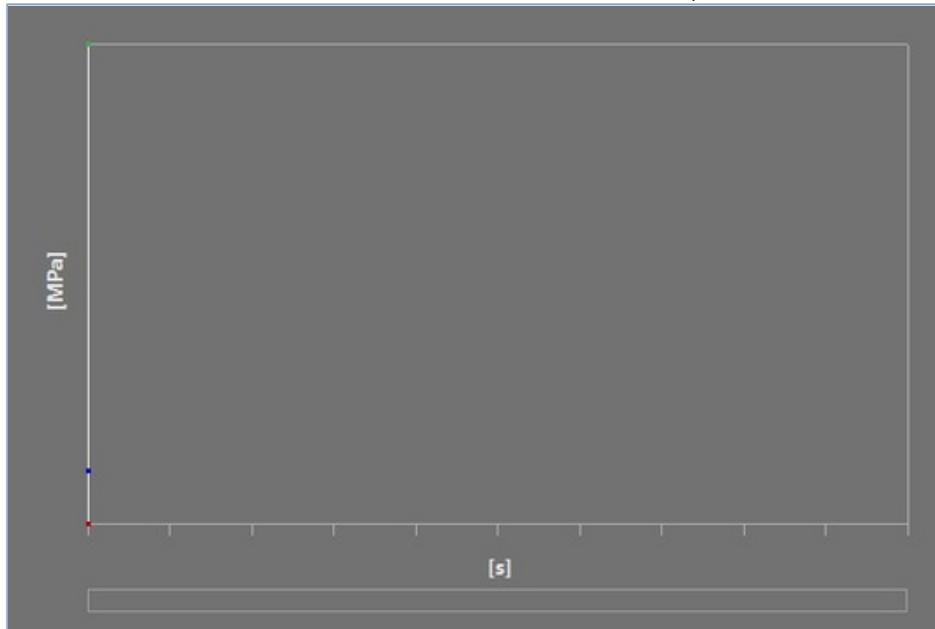


TABLE 97  
Model (A4, B4) > Static Structural (B5) > Solution (B6) > Equivalent Stress

Time [s]	Minimum [MPa]	Maximum [MPa]	Average [MPa]
1.	1.1227	621.02	69.235

## Material Data

### Structural Steel

TABLE 98  
Structural Steel > Constants

Density	7.85e-009 tonne mm <sup>-3</sup>
Coefficient of Thermal Expansion	1.2e-005 K <sup>-1</sup>
Specific Heat	4.34e+008 mJ tonne <sup>-1</sup> K <sup>-1</sup>
Thermal Conductivity	6.05e-002 W mm <sup>-1</sup> K <sup>-1</sup>
Resistivity	1.7e-004 ohm mm

TABLE 99  
Structural Steel > Color

Red	Green	Blue
132	139	179

TABLE 100  
Structural Steel > Compressive Ultimate Strength

Compressive Ultimate Strength MPa
0

TABLE 101  
Structural Steel > Compressive Yield Strength

Compressive Yield Strength MPa
250

TABLE 102  
Structural Steel > Tensile Yield Strength

Tensile Yield Strength MPa
250

TABLE 103  
Structural Steel > Tensile Ultimate Strength

Tensile Ultimate Strength MPa
460

TABLE 104

## Structural Steel &gt; Isotropic Secant Coefficient of Thermal Expansion

Zero-Thermal-Strain Reference Temperature K

295.15

TABLE 105  
Structural Steel > S-N Curve

Alternating Stress MPa	Cycles	Mean Stress MPa
3999	10	0
2827	20	0
1896	50	0
1413	100	0
1069	200	0
441	2000	0
262	10000	0
214	20000	0
138	1.e+005	0
114	2.e+005	0
86.2	1.e+006	0

TABLE 106  
Structural Steel > Strain-Life Parameters

Strength Coefficient MPa	Strength Exponent	Ductility Coefficient	Ductility Exponent	Cyclic Strength Coefficient MPa	Cyclic Strain Hardening Exponent
920	-0.106	0.213	-0.47	1000	0.2

TABLE 107  
Structural Steel > Isotropic Elasticity

Young's Modulus MPa	Poisson's Ratio	Bulk Modulus MPa	Shear Modulus MPa	Temperature K
2.e+005	0.3	1.6667e+005	76923	

TABLE 108  
Structural Steel > Isotropic Relative Permeability

Relative Permeability
10000