

ISO 10303-523:2004-05 (E)

Industrial automation systems and integration - Product data representation and exchange - Part 523: Application interpreted construct: Curve swept solid

Contents		Page
1	Scope	1
2	Normative references	2
3	Terms, definitions and abbreviations	2
3.5	Other definitions	3
3.6	Abbreviations	4
4	EXPRESS short listing	4
4.1	Fundamental concepts and assumptions	6
4.2	aic curve swept solid schema entity definitions	6
4.2.1	curve swept solid shape representation	6
4.2.2	Ruled surface swept area solid	7
Annex A (normative) Short names of entities		9
Annex B (normative) Information object registration		10
B.1	Document identification	10
B.2	Schema identification	10
Annex C (informative) Computer-interpretable listings		11
Annex D (informative) EXPRESS-G diagrams		12
Annex E (informative) AIC usage example		22
Index		27
Figures Figure D.1 aic curve swept solid EXPRESS-G diagram page 1 of 9		13
Figure D.2 aic curve swept solid EXPRESS-G diagram page 2 of 9		14
Figure D.3 aic curve swept solid EXPRESS-G diagram page 3 of 9		15
Figure D.4 aic curve swept solid EXPRESS-G diagram page 4 of 9		16
Figure D.5 aic curve swept solid EXPRESS-G diagram page 5 of 9		17
Figure D.6 aic curve swept solid EXPRESS-G diagram page 6 of 9		18
Figure D.7 aic curve swept solid EXPRESS-G diagram page 7 of 9		19
Figure D.8 aic curve swept solid EXPRESS-G diagram page 8 of 9		20
Figure D.9 aic curve swept solid EXPRESS-G diagram page 9 of 9		21
Figure E.1 Cross-section used to define swept solid		24
Figure E.2 Ruled surface and directrix curve		25

Figure E.3 Curve swept solid shape representation	26
Tables Table A.1 Short names of entities	9