

ISO 13050:2014-12 (E)

Synchronous belt drives - Metric pitch, curvilinear profile systems G, H, R and S, belts and pulleys

Contents		Page
Foreword		v
1	Scope	1
2	Normative references	1
3	Synchronous belt drive system types	2
4	Belt nomenclature	3
5	Pulley nomenclature	3
6	Profile system G	4
6.1	Belt dimensions and tolerances	4
6.1.1	Belt tooth dimensions	4
6.1.2	Belt widths and tolerances	5
6.1.3	Pitch length measurement	5
6.2	Pulleys, profile system G	7
6.2.1	General	7
6.2.2	Generating tool rack	7
6.2.3	Pulley groove profile dimensions and tolerances	9
6.2.4	Pulley outside diameters	10
6.2.5	Pulley width	12
7	Profile system H	13
7.1	Belt dimensions and tolerances	13
7.1.1	Belt tooth dimensions	13
7.1.2	Belt widths and tolerances	14
7.1.3	Pitch length measurement	15
7.1.4	Procedure	15
7.2	Pulleys, profile system H	17
7.2.1	General	17
7.2.2	Generating tool rack	17
7.2.3	Pulley groove profile dimensions and tolerances	19
7.2.4	Pulley outside diameters	21
7.2.5	Pulley width	24
8	Profile system R	25
8.1	Belt dimensions and tolerances	25
8.1.1	Belt tooth dimensions	25
8.1.2	Belt widths and tolerances	26
8.1.3	Pitch length measurement	26
8.2	Pulleys, profile system R	29
8.2.1	General	29
8.2.2	Generating tool rack	29
8.2.3	Pulley groove profile dimensions and tolerances	31
8.2.4	Pulley outside diameters	32
8.2.5	Pulley width	35
9	Profile system S	38
9.1	Belt dimensions and tolerances	38

9.1.1	Belt tooth dimensions	38
9.1.2	Belt widths and tolerances	39
9.1.3	Pitch length measurement	39
9.2	Pulleys, profile system S	41
9.2.1	General	41
9.2.2	Generating tool rack	42
9.2.3	Pulley groove profile dimensions and tolerances	43
9.2.4	Pulley outside diameters	44
9.2.5	Pulley width	45
Annex A (normative) Belt pitch lengths and tolerances		47
Annex B (normative) Relationship between centre distance and belt pitch length		49
Annex C (normative) Pulley tolerances		50
Annex D (normative) Flange dimensions		53
Bibliography		54