

ISO/TR 10300-30:2024-09 (E)

Calculation of load capacity of bevel gears - Part 30: ISO rating system for bevel and hypoid gears - Sample calculations

Contents		Page
Foreword		v
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Symbols and abbreviated terms	1
5	Application	9
5.1	General	9
5.2	Structure of calculation methods	10
Annex A (informative) Sample 1: Rating of a spiral bevel gear pair without hypoid offset according to Method B1 and Method B2		12
A.1	Initial data	12
A.2	Calculation of Sample 1 according to Method B1	16
A.3	Calculation of Sample 1 according to Method B2	39
A.4	Calculation of Sample 1 according to local calculation method for surface durability - Method B1 localised	55
Annex B (informative) Sample 2: Rating of a hypoid gear set according to Method B1 and Method B2		93
B.1	Initial data	93
B.2	Calculation of Sample 2 according to Method B1	97
B.3	Calculation of Sample 2 according to Method B2	121
B.4	Calculation of Sample 2 according to local calculation method for surface durability - Method B1 localised	150
Annex C (informative) Sample 3: Rating of a hypoid gear set according to Method B1 and Method B2		182
C.1	Initial data	182
C.2	Calculation of Sample 3 according to Method B1	186
C.3	Calculation of Sample 3 according to Method B2	210
C.4	Calculation of Sample 3 according to local calculation method for surface durability - Method B1 localised	240
Annex D (informative) Sample 4: Rating of a hypoid gear set according to Method B1 and Method B2		272
D.1	Initial data	272
D.2	Calculation of Sample 4 according to Method B1	276
D.3	Calculation of Sample 4 according to Method B2	300
D.4	Calculation of Sample 4 according to local calculation method for surface durability - Method B1 localised	327
Annex E (informative) Graphical representation of the calculation results for Sample 1 to Sample 4		359
Bibliography		362