



Technical Committee

EQUIVALENCE Between ISO STANDARDS and NATIONAL STANDARDS Concerning Gear Technology

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TC 60		REFERENCE of EQUIVALENT NATIONAL STANDARD	YEAR of PUBLICATION or PROJECT	STATUS of EQUIVALENCE
TC 60 DOC 60 N 590 (Revision of ISO 53:1974) Cylindrical gears for general and heavy engineering -- Basic rack	ISO 53	DIN 867 NF ISO 53 UNI 6587 BS 3696-1 BS ISO 53 Was AGMA 201.02	1986 1998 1969 1990 1998 WITHDRAWN	P S P P Also 436-1 S
TC 60 (Revision of ISO 54:1977) Cylindrical gears for general engineering and for heavy engineering -- Modules	ISO 54	DIN 780-1 UNI 6586 BS 3696-1 BS ISO 53 NF ISO 54	1977 1969 1990 199- 1997	P P P S S
TC 60 (Revision of ISO 2490:1996) Solid (monobloc) gear hobs with tenon drive or axial keyway, 0,5 to 40 module -- Nominal dimensions	ISO/DIS 2490	BS 5221 ANSI/AGMA 1102-A03	1987 2003	E P
TC 60/JWG-1: Wind Turbine Gearboxes				
TC60/JWG-1 Wind turbines – Part 4: Design and specification of gearboxes	ISO 81400-4	ANSI/AGMA 6006-A03	2003	E
TC 60/WG 9: Acceptance Code for Gears STANDARD IN PROJECT				
TC60/WG 9 (Revision of ISO 8579-1 :1993) Acceptance code for gears: Part 1 - Determination of the airborne sound power levels emitted by gear units	ISO 8579-1	DIN 45 635 – 23 BS 7676-1 and 2 ANSI/AGMA 6025-D98 NF ISO 8579-1	1978 1993 1998 2002	P E P S
TC 60/WG 10: Enclosed Gear Drives				
TC60/WG 10 (Pubished 1st Oct 99) Gears -- Industrial Enclosed gear drives	ISO/TR 13593	ANSI/AGMA 6113-A06 FD ISO/TR 13593	2006 2000	P S

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TC 60/WG 2: Accuracy of Gears		REFERENCE of EQUIVALENT NATIONAL STANDARD	YEAR of PUBLICATION or PROJECT	STATUS of EQUIVALENCE
TC60/WG 2 (Revision of ISO 1328:1975) Cylindrical gears -- ISO system of accuracy -- Part 1: Definitions and allowable values of deviations relevant to corresponding flanks of gear teeth	ISO 1328-1	DIN 3962 -1, -2	1978	P
		DIN 3963	1978	P
		BS 436-4	1996	S
		NF ISO 1328-1	1995	S
		UNI ISO 1328-2	1999	S
		ANSI/AGMA 2015-1-A01	2001	P
TC60/WG 2 DOC 60/-/2 N 566 (Published 1997) Cylindrical gears -- ISO system of accuracy -- Part 2: Definitions and allowable values of deviations relevant to radial composite deviation and runout	ISO 1328-2	BS 436-5	1997	S
		NF ISO 1328-2	1997	S
		UNI ISO 1328-2	1999	S
		ANSI/AGMA 2015-1-A05	2005	P
TC60/WG 2 (Published 1992) Cylindrical gears -- Code of inspection practice -- Part 1 Inspection of corresponding flanks of gear teeth	ISO TR 10064-1	DIN 3960	1987	P
		BS ISO TR 10064-1	1992	S
		FD ISO TR 10064-1	1996	S
		AGMA 915-1-A02	2002	P
TC60/WG 2 (Published 1996) Cylindrical gears -- Code of inspection practice -- Part 2 Inspection of radial composite deviations, runout, tooth thickness and backlash	ISO/TR 10064-2	FD ISO TR 10064-2	2001	S
		BS ISO TR 10064-2	1996	S
		AGMA 915-2-A05	2005	P
TC60/WG 2 (Published 1996) Cylindrical gears -- Code of inspection practice -- Part 3: Recommendation relevant to blanks, center distance, parallelism of axes	ISO/TR 10064-3	FD ISO TR 10064-3	2001	S
		BS ISO TR 10064-3	1996	S
		AGMA 915-3-A99	1999	P
TC60/WG 2 (Published 1998) Cylindrical gears -- Code of inspection practice -- Part 4: recommendations relative to surface texture and tooth contact pattern checking	ISO/TR 10064-4	FD ISO TR 10064-4	1999	S
		BS ISO TR 10064-4	1998	S
		Was AGMA 906-A94	WITHDRAWN	--
TC60/WG 2 (Published 2005) Cylindrical gears -- Code of inspection practice -- Part 5: Recommendations relative to evaluation of gear measuring instruments	ISO/TR 10064-5	FD ISO TR 10064-5	2006	S
		AGMA 931-A02	2002	P
TC60/WG2 (Published 2006) Bevel gears -- ISO system of accuracy	ISO 17485	NF ISO 17485	2006	S
		ANSI/AGMA 2009-B01	2001	P
TC60/WG2 Gears -- Evaluation of instruments for the measurement of individual gears	ISO 18653:2003	ANSI/AGMA 2110-A94	R2000	
		ANSI/AGMA 2113-A97	1997	P
		ANSI/AGMA 2114-A98	1998	
		NF ISO 18653	2004	S



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TC 60/SC 1/WG 4 : Terminology and Notation of Gears		REFERENCE of EQUIVALENT NATIONAL STANDARD	YEAR of PUBLICATION or PROJECT	STATUS of EQUIVALENCE
TC60/SC1/WG 4 (Revision of ISO 701:1976) International gear notation -- Symbols for geometrical data	ISO 701	DIN 3999	1974	P
		NF ISO 701	1998	S
		BS 2519-2	1976	P
		UNI 6773	1974	P
		AGMA 900-G00	2000	P
TC60/SC1/WG 4 (Revision of ISO 1122-1:1983) Glossary of gear terms -- Part 1 : Definitions related to geometry	ISO 1122-1	DIN 3998-1 , -2, -3	1976	P
		DIN 868	1976	P
		DIN 3975	1976	P
		NF ISO 1122-1	1998	S
		BS ISO 1122-1	1998	S
		UNI 4760-1 , -2, -3	1975	P
		ANSI/AGMA 1012-G05	2005	P
TC60/SC1/WG 4 Glossary of gear terms -- Part 2 : Definitions related to worm gear geometry	ISO 1122-2:1999	DIN 3998-4	1976	P
		NF ISO 1122-2	1999	S
		Will be BS ISO 1122-2		S
		UNI 4760-4	1977	P
		ANSI/AGMA 1012-G05	2005	P
TC60/SC1/WG 4 Gears – Wear and damage to teeth -- Terminology	ISO 10825:1995	DIN 3975	1979	P
		NF ISO 10825	2006	S
		ANSI/AGMA 1010-E95	R2000	P
TC 60/SC 1/WG 7 : Worm Gears				
TC60/SC1/WG 7 Worms gears – Geometry of worm profiles	ISO/TR 10828:1997	FD ISO/TR 10828	1999	S
		BS ISO TR 10828		S
		BS 721 Part 2	1983	P
TC60/SC1/WG 7 Gears – Calculation of load capacity of worm gears	ISO/DIS 14521	DIN 3996	1998	P
		BS 721 Part 2	1983	P
		ANSI/AGMA 6034-B92	R1999	Cylindrical
		ANSI/AGMA 6135-A02	2002	Enveloping



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TC 60/SC 2/WG 6 : Gear Calculation		REFERENCE of EQUIVALENT NATIONAL STANDARD	YEAR of PUBLICATION or PROJECT	STATUS of EQUIVALENCE
TC60/SC2/WG 6 Calculation of the load capacity of spur and helical gears – Part 1 : Basic principles, introduction and general influence factors	ISO 6336-1:2006	DIN 3990-1	1987	P/S
		BS ISO 6336-1	1996	S
		BS 436-3	1996	P
		UNI 8862-1 , -2	1987	P
		ANSI/AGMA 2101-D04	2004	P
		NF ISO 6336-1	2006	S
TC60/SC2/WG 6 Calculation of the load capacity of spur and helical gears – Part 2 : Calculation of surface durability (pitting)	ISO 6336-2:2006	DIN 3990-2	1987	P/S
		BS ISO 6336-1	1996	S
		BS 436-3	1996	P
		UNI 8862-3	1991	P
		ANSI/AGMA 2101-D04	2004	P
		NF ISO 6336-2	2006	S
TC60/SC2/WG 6 Calculation of load capacity of spur and helical gears – Part 3 : Calculation of tooth bending strength	ISO 6336-3:2006	DIN 3990-3	1987	P/S
		BS ISO 6336-1	1996	S
		BS 436-3	1996	P
		UNI 8862-4	1991	P
		ANSI/AGMA 2101-D04	2004	P
		NF ISO 6336-3	2006	S
TC60/SC2/WG 6 Calculation of load capacity of spur and helical gears – Part6: Calculation of service life under variable load	ISO 6336-6:2006	DIN 3990-6	1984	P/S
		ANSI/AGMA 6032-A94	R2000	NO
		NF ISO 6336-6	2006	S
TC60/SC2/WG 6 Calculation of load capacity of spur and helical gears – Application to marine gears	ISO 9083	DIN 3990-31	1990	P/S
		ANSI/AGMA 6032-A94	R2000	NO
TC60/SC2/WG 6 Calculation of load capacity of spur and helical gears – Application for industrial gears	ISO 9085	DIN 3990-11	1989	P/S
		NF E 23 015	1982	P/S
		ANSI/AGMA 6113-A06	2006	NO



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TC 60/SC 2/WG 6 : Gear Calculation		REFERENCE of EQUIVALENT NATIONAL STANDARD	YEAR of PUBLICATION or PROJECT	STATUS of EQUIVALENCE
TC60/SC2/WG 6 Gears – Calculation of scuffing load capacity of cylindrical, bevel and hypoid gears – Part 1 : Flash temperature method	ISO/TR 13989-1:2000	FD ISO/TR 13989-1 AGMA 925-A03	2000 2003	S NO
TC60/SC2/WG 6 Gears -- Calculation of scuffing load capacity of cylindrical, bevel and hypoid gears -- Part 2: Integral temperature method	ISO/TR 13989-2:2000	FD ISO/TR 13989-2 DIN 3990-4 AGMA 925-A03	2000 1987 2003	S P NO
TC60/SC2/WG 6 Surface temper etch after grinding	ISO 14104	FD ISO 14104 ANSI/AGMA 2007-C00	1995 2000	S E
TC60/SC2/WG 6 Gears -- Thermal capacity – Part 1: Rating gear drives with thermal equilibrium at 95°C sump temperature	ISO 14179-1	AGMA ISO 14179-1	2004	E
TC60/SC2/WG 6 Gears -- Thermal capacity – Part 2: Thermal load-carrying capacity	ISO 14179-2	ANSI/AGMA –6113-A06	2006	P
TC 60/SC 2/WG 11 : High Speed Enclosed Gear Units (API 613)				
TC60/SC2/WG 11 Gears -- Specifications for high speed enclosed gear units	ISO 13691	ANSI/API 613 DIN EN ISO 13691	1995 2003	P S
TC 60/SC 2/WG 12 : Load Carrying capacity of oils				
TC60/SC2/WG 12 Gears – FZG test procedures – Part 1: FZG test method A/8, 3/90 for relative scuffing load-carrying capacity of oils	ISO 14635-1	DIN ISO 14635-1 ANSI/ASTM D5182-91	2006 1991	S P
TC60/SC2/WG 12 Gears – FZG test procedures – Part 2: FZG step load test A10/16, 6R/120 for relative scuffing load-carrying capacity of high EP oils	ISO 14635-2			
TC60/SC2/WG 12 Gears – FZG test procedures – Part 3: FZG test method A/2, 8/50 for relative scuffing load-carrying capacity and wear characteristics of semifluid gear greases	ISO 14635-3			



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TC 60/SC 2/WG 13 : Bevel Gears	REFERENCE of EQUIVALENT NATIONAL STANDARD	YEAR of PUBLICATION or PROJECT	STATUS of EQUIVALENCE
TC60/SC2/WG 13 (was in TC60/SC2/WG 6 before 1997) ISO 10300-1 Calculation of load capacity of bevel gears -- Part 1: Introduction and general influence factors	DIN 3991 ANSI/AGMA -2003-B97	1988 R2003	P/S P
TC60/SC2/WG 13 (was in TC60/SC2/WG 6 before 1997) ISO 10300-2 Calculation of load capacity of bevel gears -- Part 2: Calculation of surface durability (pitting)	DIN 3991 ANSI/AGMA -2003-B97	1988 R2003	P/S P
TC60/SC2/WG 13 (was in TC60/SC2/WG 6 before 1997) ISO 10300-3 Calculation of load capacity of bevel gears -- Part 3: Calculation of tooth root strength	DIN 3991 ANSI/AGMA -2003-B97	1988 R2003	P/S P
TC60/SC2/WG 13 ISO 23509 Bevel and hypoid gear geometry	DIN 3991 ANSI/AGMA -2003-B97	1988 R2003	P/S P

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TC 60/SC 2/WG 14 : Strength and Quality of Materials		REFERENCE of EQUIVALENT NATIONAL STANDARD	YEAR of PUBLICATION or PROJECT	STATUS of EQUIVALENCE
TC60/SC2/WG 14 (was in TC60/SC2/WG 6 before 1997) ISO 6336-5 Calculation of load capacity of spur and helical gears -- Part 5: Strength and quality of materials		DIN 3990-5 BS ISO 6336-5 ANSI/AGMA -2101-D04	1988 1996 2004	P/S S P
Other documents in charge of TC 60				
TC 60 ISO 677 Straight bevel gears for general engineering and heavy engineering -- Basic rack		BS 545 UNI 6588	??? 1969	S P
TC60 ISO 678 Straight bevel gears for general engineering and heavy engineering – Modules		BS 545 UNI 6586	??? 1969	S P
TC 60 ISO 1340 Cylindrical gears – Information to be given to the manufacturer by the purchaser in order to obtain the gear required		DIN 3966-1 UNI 7462 AGMA -910-C90 FD E 23-012	1978 1975 R2003 2004	P P NO P
TC 60 ISO 1341 Straight bevel gears -- Information to be given to the manufacturer by the purchaser in order to obtain the gear required		DIN 3966-2 BS 436-1, 436-2 UNI 7463 FD E 23-016	1978 ??? 1975 2004	P P P P
TC 60 ISO 4468 Gear hobs -- Single-start -- Accuracy requirements		BS 5221 ANSI/AGMA – 1102-A03	??? 2003	E P
TC 60/WG9 ISO 8579-2 Acceptance code for gears: Part 2 – Determination of mechanical vibrations of gear units during acceptance testing		BS 7676-2 ANSI/AGMA – 6000-B96	??? R2002	E P

STATUS OF EQUIVALENCE :

S : STRICTLY EQUIVALENT
P : PARTIALY EQUIVALENT

P /S : PARTIALY EQUIVALENT IN REVISION
E : STRICTLY EQUIVALENT except FORWARD