



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 1969 1990 1998 WITHDRAWN	P 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



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



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



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



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



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

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