AMENDMENT RECORD

No. TS200™-AR

for
Technical Specification No. TS200™

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Doc issue & issue date	Ref : View, Fig, Para , Table etc	Description & Reason for change	Sponsor / Company
TS200 Issue 33 Jan 2011	Whole document Pages 2 & 3 Pages 4 to 6 Page 8 Page 9 Page 17 Page 21 Page 25 Page 26 Page 27 Page 28 Page 29 Page 29 Page 29 Page 30 Page 35 Page 37 Page 39 Page 40 Page 42 Page 43 Page 44	Change of ADS Logo Contents by Description – Page numbers amended to reflect new page 29 added Contents by Product Number – Page numbers amended to reflect new page 29 added Manufacturers Name Change – International Seal – FNGP added,was formerly International Seal Co. Inc. Manufacturers Name Change – Sigma Precision Compenents UK Ltd added was formerly B&D Patterns Ltd Bolt, Inconel 718, Blanc Aero Ind. Cold Forged now to 0.3750. TS24, Alcoa, Toulouse Operations, Hot Forged .3125 only added. SPS Technologies additional qualification for AS8632D added size .1900-32UNJF-3B Blanc Aero Industries, new qualification, AS27871 Nut Self-Locking Shank Flange Restrained. Alcoa, St Cosme, new qualifications for AS44862 and AS44863 added to table. Bristol Industries, new qualification, AS54471-5 Nut Self-Locking, Shank, Flange Restrained 0.250-28 UNJF, Added to Table, Alcoa, St Cosme, new qualifications for AS54471-5, AS54472-2 and AS54472-5 added to tables. Alcoa, St Cosme, new qualifications for AS63452, AS63454 and AS63456 added to tables. Bristol Industries, new qualifications, AS63467 Self-Locking Double Hex Nut, AS63573, AS63487 and AS63491 Nut Self Locking Shank,added to tables SPS Technologies, new qualification for AS63537, Nut Anchor added to table. New page 29 added. New table added for AS65111 Nut, Self Locking Flange Restrained SPS Technologies Ltd, new qualificatio for AS65111-2. Old page 29 re numbered to page 30, page 30 to end renumbered. Table for AS43003. Manufacturer Trellingberg Sealing Solutions – Compound Reference is 2129 was 2397/1 correction TSC Item AS63200-235 Table: Manufacturer - Amphenol Aerospace Deleted. Dunlop Aerospace Precision Rubber B916 moved to table ESC53 . Tables ESC10 and ESC30 Manufacture Pyle National deleted – factory closed. Amphenol Aerospace - (USA) added, Amphenol Limited - (UK) added. Manufacturers Identification Symbol – Paolo Astori added Manufacturers Address – Deleted B&D Patterns Ltd Manufacturers Address - Deleted Pyle National Manufactures Address – Added Sigma Precision Components UK Ltd, was formerly B&D Patterns Ltd Manufacturers Address - Trelleborg Sealing Solutions amended.	J Thacker A|D|S

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Doc issue & issue date	Ref : View, Fig, Para , Table etc	Description & Reason for change	Sponsor / Company
TS200 Issue 34 March 2011	Whole Document	Removal of all references to Datum Engineering and their qualified parts.	J Thacker A|D|S
TS200 Issue 35 May 2011	Page 2 Page 6 Page 6 Page 20 Page 20 Page 25 Page 25 Page 25 Page 25 Page 26 Page 28 Page 28 Page 28 Page 29 Page 29 Page 29 Page 39 Page 40 Page 41	Shank Flange Restrained (Waspaloy) AS63540 - AS63589 now Page 29 was Page 28 Spline Drive - BS HR650 (AMS5737 or AMS5732) AS64366 - AS64374 now Page 29 was Page 28‡. AS63540 - AS63589 Nut, Self Locking Shank Flange Restrained (Waspaloy) Now Page 29 was Page 28. AS64366 - AS64374 Nut, S/L, Spline Drive - BS HR650 (AMS5737 or AMS5732) now Page 29 was Page 30‡. Table Extended Washer Double Hexagon (AS20620 thru 20639) new columb added - Paolo Astori. Paolo Astori qualification AS20626 and AS20628 added to table. Table Nuts S/L Shank Flange Restrained (AS44750 thru 44753) Bristol Industries qualification AS44752 added to table. Table Nuts S/L Spline Drive, BS HR650 (AS44860 thru 44869) Bristol Industries qualification AS44861 and AS44863 added to table. Table Nuts S/L Plate (AS46720 thur 46722) reference to Fairchild/Simmonds deleted. Table Nuts S/L Plate (AS46725 thru 46727) now Alcoa / St Cosme was Fairchild/Simmonds. Table Nut S/L Shank Flanged Restrained (AS55200 thru 55203) Alcoa St Cosme QualificationAS55202-5 added to table. Table Shank Flange Restrained Waspaloy (AS63540 thru 63589) now Page 29 was Page 28. Table Shank Flange Restrained (AS63480 thru 63529) new Thread Size added .190 - 32 (two lines). Bristol Industries qualification AS63482 and AS63483 added to table. Table Nut S/L Shank Flange Restrained Waspaloy (AS63540 thru 63589) added to page. Table Nut S/L Spline Drive - BS HR650 (AMS5737 - AMS5732) (AS64366 thru 64374) added to page. Bristol Industries qualification AS64367 added to Table Manufacturers Identification Symbols - Now Alcoa Fastening Systems Saint Cosme Operations was Farichild Fasteners (Simmonds) Alcoa Fastening Systems/Saint Cosme Operation - Telephone and Fax numbers added. Name and address of Fairchild Fasteners/Simmonds deleted.	J Thacker A|D|S

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Doc issue & issue date	Ref : View, Fig, Para , Table etc	Description & Reason for change	Sponsor / Company
TS200 Issue 36 Aug 2011	Page 1	Contents by Description; AS63450 – AS63459 now Page 28 was Page 27. AS63540 – AS63489 now page 29 was Page 28	J Thacker A|D|S
	Page 2	Contents By Description; AS63536 – AS63539 now Page 27 was Page 28. AS55200 – AS55203 now Page 27 was Page 26. Shank, Flange Restrained, AS63480 – AS63529 added at Page 29 AS63530 – AS63535 now Page ‡29 was Page ‡28.	
	Page 5	Contents by Product Number; AS55200 – AS55203 now Page 29 was Page 26	
	Page 6	Contents by Product Number; AS63450 – AS63459 now Page 28 was Page 27. AS63480 – AS63529 now Page 29 was Page 28. AS63530 – AS63535 now Page ‡29 was Page ‡28. AS63536 – AS63539 now Page 29 was Page 28	
	Page 9	TS21 - Material BS HR650 Lisi Aerospace FTB Hot Forged now .190 to .500 inclusive was .250 & .3750, Cold Forged now .190 & .250 was * TS22 - Material BS S519 Lisi Aerospace FTB Hot Forged now .190 to.500 inclusive was .190, .3125 & .4375, Cold Forged now .190 & .250 was * TS24 - Material (Inconel) DTD5638 Lisi Aerospace FTB Hot Forged now .190 to .500 inclusive was .250, .375 & .500, Cold Forged now .190 & .250 was *	
	Page 10	TS25 - Material (Waspaloy) DTD5639 Lisi Aerospace FTB Hot Forged now .190 to .500 was .375 and.500, Cold Forged now .190 & .250 was *	
	Page 11	Inserts Screw Thread AGS3600 Series Alcoa Fastening Melborne Pty now ***** (ceased production of AGS3600 series)	
	Page 20	Table Extended Washer Double Hex Following qualified products added to Paolo Astori: AS20624, AS20625, AS20627, AS20629 and AS20630.	
	Page 21	Table Shank Flange Restrained: Following qualified product added to Blanc Aero Industries AS27852	
	Page 26	New Table added, Extended Washer, Double Hexagon (For use with Impedance Type Bolts) AS54381thru AS54390. Qualified product AS54387 added to table for SPS Technologies, TJBrooks Div.	
	Page 27	Table Shank Flanged Restrained (AS55200 thru AS55203) now Page27 was Page 26.	
	Page 28	Table Shank Flanged Restrained Waspaloy (AS63420 thru AS63429) now Page28 was Page 27. Table Double Hexagon Extended Washer (AS63450 thru AS63459) now Page 28 was Page 27. Table Double Hexagon Extended Washer Deep Counterbored (AS63460 thru AS63469) following qualifications added. AS63462 for SPS Technologies and AS63464 for Bristol Industries.	

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TS200 Issue 36 Aug 2011 (cond)	Page 29	Table Shank Flange Restrained (AS63480 thru AS63529) now Page 29 was Page 28. New Thread Size added .3125 – 24, A|D|S Part No. AS63500. New qualification added AS63500 for Bristol Industries.	
	Page 29	Table Shank Flange Restrained (AS63536 – AS63535) now Page 29 was Page 28 Table Plate (AS63536 – AS63539) now Page 29 was Page 28	
	Page 29	Table Spline Drive BSHR650 (AS64366 - AS64374) qualification added AS64367 for SPS Technologies Limited.	
	Page 30	Table Reduced Hexagon Deep Counterbored Inch Series (AS64375 – AS64378) qualification added AS64376 for SPS Technologies Limited	
	Page 30	Table Stiffnuts Hexagon Thick (AGS2001) Satair Hardware UK Ltd all types and sizes now * Table Stiffnuts Hexagon Thin (AGS2002) Satair Hardware UK Ltd all types and sizes now *	
	Page 31	Table Stiffnuts Double Anchor Thick (AGS2007) Satair Hardware UK Ltd all types and sizes now * Table Stiffnuts Double Anchor Thin (AGS2008) Satair Hardware UK Ltd all types and sizes now * Table Stiffnuts Double Anchor Countersunk (AGS2009) Satair Hardware UK Ltd all types and sizes now *	
	Page 32	Table Stiffnuts Clinch (AGS2011) Satair Hardware UK Ltd, Mild Steel now * was 6BA & 4BA. Table Stiffnuts Floating Anchor Thick (AGS2012) Satair Hardware UK Ltd Mild Steel, now ***** was 2BA. Table Stiffnuts Floating Anchor Thin (AGS2013) Satair Hardware UK Ltd Mild Steel, now ***** was 2BA	
	Page 33	Table Stiffnuts Floating Anchor Countersunk (AGS2014) Satair Hardware UK Ltd Mild Steel, now ***** was 2BA Table Stiffnuts Single Anchor Thick (AGS2018) Satair Hardware UK Ltd, Suffix 66 (All Metals) now ***** for all Suffix 66 Table Stiffnuts Single Anchor Thin (AGS2019) Satair Hardware UK Ltd, Suffix 66 (All Metals) now ***** for all Suffix 66	
	Page 34	Table Stiffnuts Clinch (AGS2020) Satair Hardware UK Ltd, Suffix 66 (All Metals) now ***** for all Suffix 66	
	Page 35	AS25361 & AS25371 Now No Manufacturer Qualified was Trelleborg Sealing Solutions	
	Page 42	Lisi Aerospace (FTB) Tel +90 (232) 477 0 400 added, Fax +90 (232) 477 0 499 added	
	Page 44	Trelleborg Sealing Solutions UK Ltd Tel: 01684 857 629 was 01684 852 065: Fax: 01684 857 639 was 01684 852 210	

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Doc issue & issue date	Ref : View, Fig, Para , Table etc	Description & Reason for change	Sponsor / Company
TS200 Issue 37 April 2012	Whole Document	ADS Brand change, changes to logo and ADS was A|D|S	John Thacker ADS
	Foreword	ADS Foreword updated to reflect the four sectors.	
	Page 2	Contents By Description – Shank Flange Restrained AS65113 Page 29 Added.	
	Page 6	Contents By Product Number – AS63480 – AS63529 Now Page29 was Page 28.	
	Page 8	Notes: Manufacturers Former Names –Note 3- Bollhoff Armstrong Limited formely Armstrong Precision Components and Armstrong Fastening Systems. Note 9- Eaton Aerospace Limited formely Perkin Elmer Fluid Sciences and EG & G Engineering products. Note 11 – Avingtrans plc formely Sigma Precision Components UK Ltd and B&D Patterns Ltd.	
	Page 9	TS21 and TS24 Bristol Industries references deleted. TS21 Blanc Aero Industries – Hot and Cold Forged 0.1640 added TS24 Blanc Aero Industries – Hot and Cold Forged 0.375 added TS24 Alcoa fastening Systems Toulouse Ops. – Hot Forged 0.190 0.250 and 0.375 added.	
	Page 10	Bolts - TS25 Bristol Industries reference deleted. Gaskets – manufacturer –Perkin Elmer Fluid Sciences deleted.	
	Page 11	Inserts – Manufacturer now Bollhoff Armstrong Limited was Armstrong Precision Components.	
	Page 21	Shank Flange Restrained (AS27850 thru 27899) Blanc Aero Industries AS27864 and AS27870 added.	
	Page 24	Clip Assembly (AS41104 thru 41105) Alcoa Republic AS41104 added	
	Page 26	Shank Flanged Restrained (AS54471 thru 54473) Bristol Industries AS54471-18 added.	
	Page 28	Double Hexagon Extended Washer AS63450 thru 63459 Bristol Industries AS63453 added Double Hexagon Extended Washer Deep Counterbored (AS63460 thru 63469) Bristol Industries AS63465 added. Bi Hexagon Waspaloy (AS63470 thru 63475) Bristol Industries AS63471 added. Flange Restrained (AS63476 thru 63479) Bristol Industries AS63476 and AS63479 added.	
	Page 29	Shank Flange Restrained (AS63480 thru 63529) Bristol Industries AS63492 added. New Table added Shank Flange Restrained 0.3750-24UNJF-3B, BS.A346 (ISO3161) with 3g, 5g and15g Additional Mass. SPS Technologies Ltd, TJ Brooks Div AS65113-3, AS65113-5 and AS6113-15 added.	

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