



SLOVENSKI STANDARD

SIST EN 3728:2008

01-julij-2008

Aeronavtika - Gredne matice, samozapiralne, levi navoj, iz jekla, odpornega proti toploti, FE-PA92HT (A286), posrebrene

Aerospace series - Shaft-nuts, self-locking, left-hand thread, in heat resisting steel FE-PA92HT (A286), silver plated

Luft- und Raumfahrt - Wellenmuttern, selbstsichernd, Linksgewinde, aus hochwärmfestem Stahl FE-PA92HT (A286), versilbert

Série aérospatiale - Écrous d'arbre, à freinage interne, filetage à gauche, en acier résistant à chaud FE-PA92HT (A286), argentés

<https://standards.iteh.ai/catalog/standards/sist/36c0208e-1f80-4bc1-be9b-537461b6918f/sist-en-3728-2008>

Ta slovenski standard je istoveten z: EN 3728:2008

ICS:

49.030.30 Matice Nuts

SIST EN 3728:2008 en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 3728:2008

<https://standards.iteh.ai/catalog/standards/sist/36c0208e-1f80-4bc1-be9b-537461b6918f/sist-en-3728-2008>

ICS 49.030.30

English Version

Aerospace series - Shaft-nuts, self-locking, left-hand thread, in heat resisting steel FE-PA92HT (A286), silver plated

Série aérospatiale - Écrous d'arbre, à freinage interne, filetage à gauche, en acier résistant à chaud FE-PA92HT (A286), argentés

Luft- und Raumfahrt - Wellenmuttern, selbstsichernd, Linksgewinde, aus hochwarmfestem Stahl FE-PA92HT (A286), versilbert

This European Standard was approved by CEN on 29 February 2008.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

[SIST EN 3728:2008](https://standards.iteh.ai/catalog/standards/sist/36c0208e-1f80-4bc1-be9b-537461b6918f/sist-en-3728-2008)

<https://standards.iteh.ai/catalog/standards/sist/36c0208e-1f80-4bc1-be9b-537461b6918f/sist-en-3728-2008>



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents		Page
Foreword.....		3
1	Scope	4
2	Normative references	4
3	Required characteristics	4
3.1	Configuration – Dimensions – Tolerances – Masses.....	4
3.2	Material	4
3.3	Surface treatment	4
4	Designation	7
5	Marking	7
6	Technical specification	7

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 3728:2008](https://standards.iteh.ai/catalog/standards/sist/36c0208e-1f80-4bc1-be9b-537461b6918f/sist-en-3728-2008)
<https://standards.iteh.ai/catalog/standards/sist/36c0208e-1f80-4bc1-be9b-537461b6918f/sist-en-3728-2008>

Foreword

This document (EN 3728:2008) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, prior to its presentation to CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2008, and conflicting national standards shall be withdrawn at the latest by October 2008.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

ITEH STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 3728:2008

<https://standards.iteh.ai/catalog/standards/sist/36c0208e-1f80-4bc1-be9b-537461b6918f/sist-en-3728-2008>

1 Scope

This standard specifies the characteristics of self-locking shaft-nuts, with left-hand threads, in FE-PA92HT, silver plated, chiefly used for axial location of bearing inner rings on shafts.

Maximum test temperature of the parts: 450 °C.

NOTE These parts are designed to be used with 4g6g external threads.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2171 ¹⁾, *Heat resisting steel FE-PA92-HT — $R_m \geq 900$ MPa — Bars — Aerospace series* ²⁾

EN 2424, *Aerospace series — Marking of aerospace products*

EN 2786, *Aerospace series — Electrolytic silver plating of fasteners*

EN 3299, *Aerospace series — Shaft-nuts and threaded rings, self-locking, right- or left-hand MJ threads, in heat resisting steel FE-PA2601 (A286), silver plated — Technical specification*

EN 4317, *Aerospace series — Heat resisting alloy FE-PA2601 (X6NiCrTiMoV26-15) — Non heat treated, forging stock a or $D \leq 200$ mm*

EN 4318, *Aerospace series — Heat resisting alloy FE-PA2601 (X6NiCrTiMoV26-15) — Solution treated and precipitation treated, bar and section $D_e \leq 100$ mm, $R_m \geq 960$ MPa*

ISO 5855-1, *Aerospace — MJ threads — Part 1: General requirements*

<https://standards.iteh.ai/catalog/standards/sist/36c0208e-1f80-4bc1-be9b-537461b6918f/sist-en-3728-2008>

3 Required characteristics

3.1 Configuration – Dimensions – Tolerances – Masses

See Figure 1 and Table 1. Dimensions and tolerances are in millimetres. They apply after silver plating.

3.2 Material

EN 2171

3.3 Surface treatment

EN 2786

Thickness:

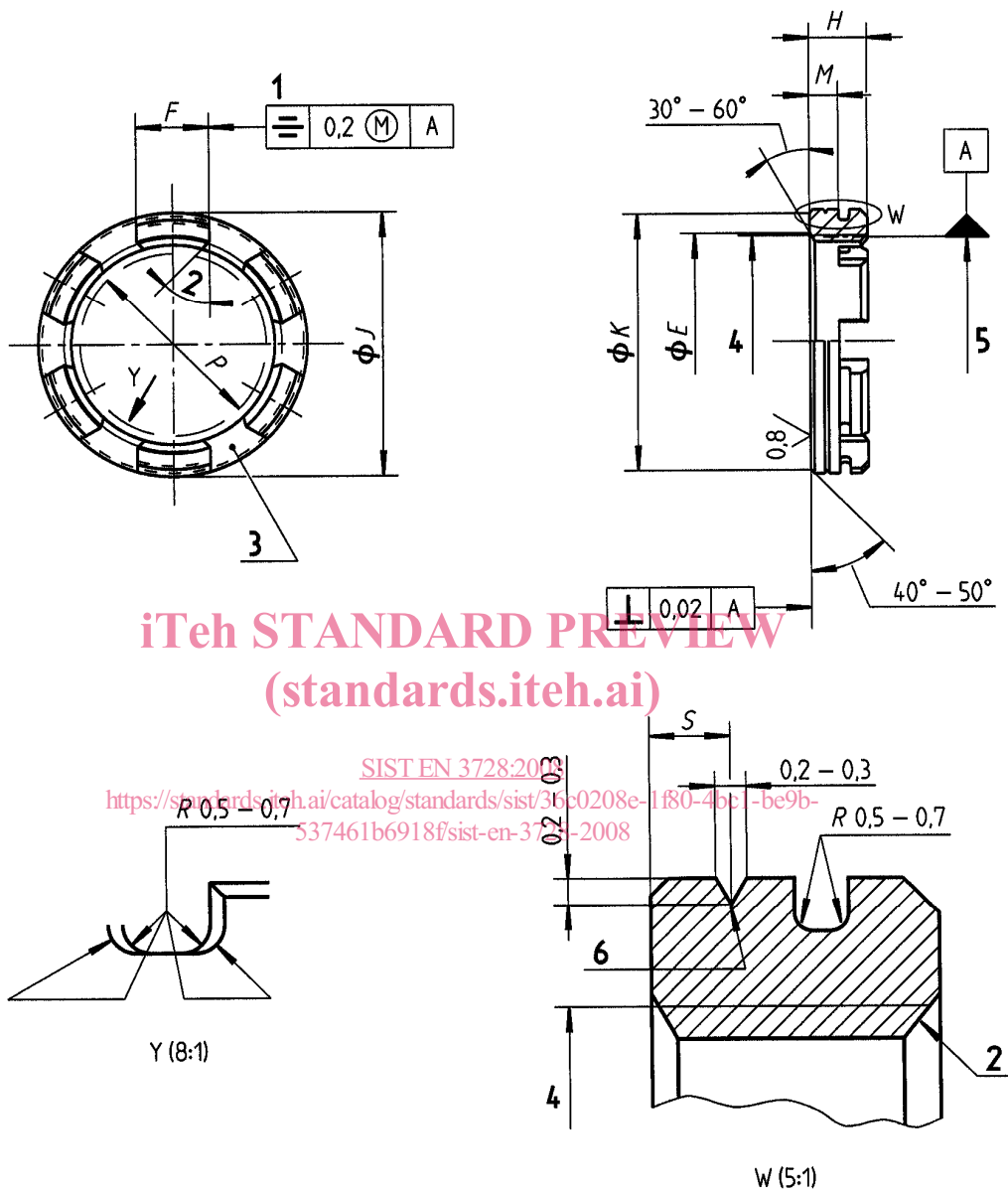
- external surfaces: 5 µm to 15 µm;
- thread: 5 µm min. shall be measured at the pitch diameter.

1) Inactive for new designation, see EN 4317 and EN 4318.

2) Published as ASD Standard at the date of publication of this standard.

$\sqrt{6,3}$ $\left[\sqrt{0,8} \right]$ Values applicable before silver plating.
 Thread surface will be as achieved by normal methods of manufacture.

Remove sharp edges 0,1 to 0,4.



SIST EN 3728:2008
<https://standards.iteh.ai/catalog/standards/sist/36e0208e-1f80-4b01-be9b-537461b6918f/sist-en-3728-2008>

Key

- 1 $N \times$ equally spaced scallops
- 2 Chamfer at the manufacturer's discretion
- 3 Marking
- 4 Thread
- 5 Pitch diameter
- 6 Slot to indicate left-hand thread

Details of form not stated and self-locking feature are left to the manufacturer's discretion.

Figure 1

Table 1

Code	Left-hand thread ^a Designation	<i>E</i>	<i>F</i>	<i>H</i>	<i>J</i>	<i>K</i>	<i>M</i>	<i>N</i>	<i>P</i> ^b	<i>S</i>	Mass kg/1 000 parts ≈	
		± 0,2	$\begin{matrix} 0 \\ -0,2 \end{matrix}$	$\begin{matrix} +0,2 \\ -0,1 \end{matrix}$	± 0,1	± 0,2	± 0,1		min.	± 0,2		
012	MJ12×1,25-4H5H-LH	12,5	6	7	19	18	3,5	4	10	1,7	7,5	
013	MJS13×1,25-4H5H-LH	13,5	7	7,5								
014	MJ14×1,5-4H5H-LH	14,5	8		20	19	11,7		8,5			
015	MJ15×1,5-4H5H-LH	15,5			21	20	12,7			8,9		
016	MJ16×1,5-4H5H-LH	16,5			22	21	13,7				9,3	
017	MJ17×1,5-4H5H-LH	17,5			23	22	14,7					9,7
018	MJ18×1,5-4H5H-LH	18,5			9	24	23					
019	MJS19×1,5-4H5H-LH	19,5	25			24	16,7		10,5			
020	MJ20×1,5-4H5H-LH	20,5	10		26	25	17,7			1,9		
021	MJS21×1,5-4H5H-LH	21,5			27	26	18,7		11,8			
022	MJ22×1,5-4H5H-LH	22,5			29	28	19,7	12,6				
023	MJS23×1,5-4H5H-LH	23,5		30	29	20,7	13,4					
024	MJ24×1,5-4H5H-LH	24,5		11	31	30					21,7	14,2
025	MJ25×1,5-4H5H-LH	25,5	12	32	31	22,7				15		
026	MJ26×1,5-4H5H-LH	26,5	8	33	32	23,7			15,5			
027	MJ27×1,5-4H5H-LH	27,5	9	8	34	33		24,7			16,5	
028	MJ28×1,5-4H5H-LH	28,5	9	35	34	4	25,7	17,5				
029	MJS29×1,5-4H5H-LH	29,5		36	35	26,7	18					
030	MJ30×1,5-4H5H-LH	30,5		10	37	36				27,7		19
031	MJS31×1,5-4H5H-LH	31,5	38		37	28,7		19,8				
032	MJ32×1,5-4H5H-LH	32,5	39		38	29,7	20,5					
033	MJ33×1,5-4H5H-LH	33,5	40		39	30,7			2,2	21,5		
034	MJS34×1,5-4H5H-LH	34,5	8		41	40					31,7	
035	MJ35×1,5-4H5H-LH	35,5		42	41	4					6	32,7
036	MJ36×1,5-4H5H-LH	36,5	11	43	42	33,7		23,5				
037	MJS37×1,5-4H5H-LH	37,5		44	43	34,7	24,5					
038	MJ38×1,5-4H5H-LH	38,5		45	44	35,7			25,5			
039	MJ39×1,5-4H5H-LH	39,5	12	46	45	36,7		26,5				
040	MJ40×1,5-4H5H-LH	40,5		48	47	37,7	27					

^a In conformity with ISO 5855-1 in none self-locking zone.

^b Minimum diameter of internal envelope circle after realizing self-locking feature.