

# **2024 DSP Conference**

Chris Carnahan, Aerospace Industries Association

08 | 07 | 2024

## **AIA Overview**

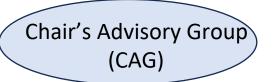
- Voice of the aerospace & defense industry for over 100 years (formed 1919)
- 300+ member companies from aerospace/defense
- AIA is dedicated to helping our united membership improve the safety of air transportation, make America more secure, fuel exploration, drive innovation, and ensure a vibrant industrial base.
- Policy focus areas include: Civil Aviation, Space, National Security, International, Engineering & Technology

#### AIA and ISO

- AIA supports 2 ISO committee secretariats, held by the US/ANSI
  - ISO/TC 20: Aircraft & Space Vehicles
    - 45 member countries (17 P members, 28 O members)
    - 11 subcommittees
  - ISO/TC 20/SC 16: Uncrewed Aircraft Systems
    - 37 member countries (27 P members, 10 O members)
    - 9 working groups



#### ISO / TC20 / SC16 UAS COMMITTEE WORK GROUP STRUCTURE



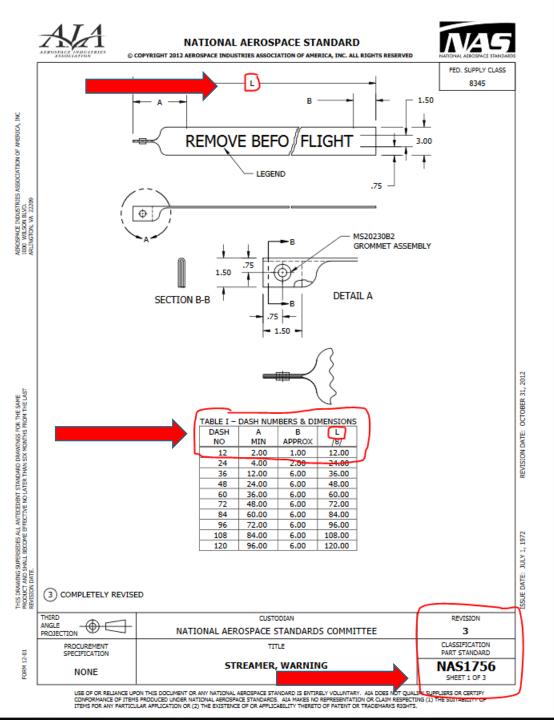
	2	3	4	5	6	7	8	9
General	Product Manufacturing & Maintenance	Operations & Procedures	Aerospace Traffic Management & Utilization	Testing & Evaluation	UAS Subsystems	Noise Measurements for UAS Joint TC20 / TC43	Counter UAS	UAS Hydrogen Propulsion systems Joint IEC/TC105
CONVENER Frank Fuchs Germany Specifies general requirements for UAS for civil applications	CONVENER Hiroki Ozawa Japan Specifies quality & safety requirements for components of UAS design & manufacturing process.	CONVENER Robert Garbett United Kingdom Details requirements for safe commercial UA operations Vertiport Standard Training Standard	CONVENER Okamoto Masahide Japan Establish Standards & Guidelines for UAS Traffic Management	CONVENER Hyun-Young Chang Korea, Republic of Testing & evaluation of UAS for safety & quality of product	CONVENER Che Jiaxing China Development of standards for UAS subsystems design & manufacturing process	CONVENER Zhang Xin China Develops Requirements for Noise Measurements For UAS	CONVENER Mark Lupton United Kingdom Counter UAS Manufacturing Quality & Safety	CONVENER Hyun-Young Chang Korea, Republic of Classifications and Requirements for UAS Hydrogen Propulsion Systems
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Advisory UAS Autonomy powered by AI Technology			Advisory	Coordination with ISO/IEC JTC 1 Advis		Advisory	Advanced Air Mobility	
Group 6	CONVENER Kenzo Nonam Japan	i	(	Group 19	COORDINATOR Shu Zhenjie China	(	Group 7	CONVENER <b>Hyun-Young Chang</b> Korea, Republic of

# **AIA's National Aerospace Standards**



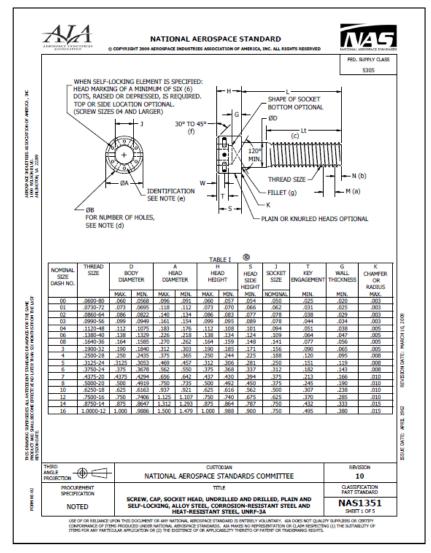
Industry standards developed by the aerospace/defense industry

- Published first standard in 1941 (NAS1)
- Best known for NAS high strength, precision fasteners and standard practices
  - NAS1149, Flat Washer (most used NAS standard!)
- 1200 active standards
- Used for both military and civilian applications, and outside A&D
- ANSI-accredited Standards Developer (ASD)
- AIA Standards Governance Council provides oversight for standards work



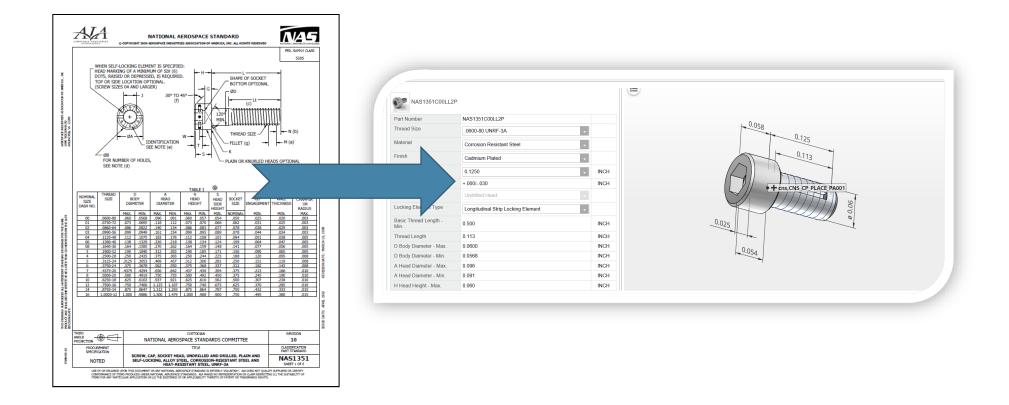


### Sample: NAS1351





#### **NAS 3D Model CAD Library**



# **NAS 3D Model CAD Library**

- Used for 3D design work for incorporating NAS/MS parts
  Also for identification of NAS parts
- 850+ NAS part standards included in 3D model library
- Millions of NAS/MS part numbers
- 150 CAD formats/versions
- Available as an annual subscription through Accuris (AIA's distributor)

# **Digital Standards Alliance (DSA)**

- The DSA was established to create best practices for the authoring and use of digital standards in the entire product development lifecycle
- AIA is a charter member in the Digital Standards Alliance (DSA)



#### AIA-AEROSPACE.ORG