

Parts Management Process at Honeywell Aerospace

Honeywell

Mechanical Parts Management

- **Agenda**
 - **Process Steps**
 - **Example of Classification/Search Tool**

Process Steps

- **History for Honeywell**

- **One Policy for Mechanical Parts Management for Honeywell**
- **On Parts Management Plan for Mechanical Parts**
- **One Preferred Parts Index (PPI)**
 - ◆ A common tool for picking parts for all three CAD tools (NX, ProE and Catia)
 - ◆ All new model requests are approved by a core group of people and are stored in the tool (aClass)
 - ◆ A common tool for source files (Teamcenter)
 - ◆ A BOM checker for NX (one being developed for ProE)
 - ◆ A common tool for the eBOM to feed SAP (PDM)
 - ◆ All new part object requests (Matrix one) are created and approved by a core group of people
 - ◆ All new designs go through an eReview
 - ◆ All changes to existing designs are reviewed for part status and possible replacements

Parts – Selection Tool (Top Level Categories)

The screenshot displays a software interface for a parts selection tool. The main area is a grid of 20 categories, each with a representative image and a label. A red oval highlights this grid. The categories are:

- Fittings
- Bearings
- Brackets
- Bushings
- Clamps
- Couplings
- Fasteners
- Fittings
- Flanges
- Gaskets
- Grommets
- Keys
- Miscellaneous Parts
- Packings
- Packings with Retainer
- Pins
- Pins & Plugs
- Plugs
- Retainers
- Rings
- Seals
- Spacers
- Washers

The interface also includes a Class Tree/Navigator on the left, an Attributes panel, and a Subclasses/Instances section at the bottom.

Top Level Categories

Parts – Selection Tool (Continued)

The screenshot displays a CAD software interface with several panels. The 'Class Tree/Navigator' on the left shows a hierarchy of parts, with 'Fasteners [82744]' expanded to show sub-categories: Bolts [23435], Inserts [1919], Nut Plates [641], Nuts [2859], Rivets [7301], Screws [14540], Setscrews [828], and Studs [31221]. The 'Subclasses' panel on the right shows a grid of images for each of these categories, with labels: Bolts, Inserts, Nut Plates, Nuts, Rivets, Screws, Setscrews, and Studs. The 'Attributes [18]' panel at the bottom left lists various attributes for a selected part, including ID, DB_HON_PART_NUMBER, CAD Platform, Cost, Locking Type, Material, Finish, Coating, Temperature Rating, OS_PART_NAME, Make From, Traceable, Comments, Replaced By, Note Text, Object Name, and Item ID. Two red circles are drawn over the image: one around the 'Subclasses' panel and another around the 'Attributes [18]' panel.

Sub Categories

Search Window

Part Classification Results and Ratings

Instances [60] TeamNotes Consumer

	DB_HON_f	Material	Finish	Coating	Locking Type	Type	Head Type	Length [in]	Head Diameter [in]	Head Height [in]	Drille	Dri	Grip Length [in]	Thread	
	I	AS3237-04	INCONEL 718	N/A	N/A	PLAIN	Machine Bolt	12pt	0.375000	0.438000	0.303000	NO	NO	0.025000	.2500-28 UNJF-3A
	I	AS3237-05	INCONEL 718	N/A	N/A	PLAIN	Machine Bolt	12pt	0.438000	0.438000	0.303000	NO	NO	0.025000	.2500-28 UNJF-3A
	I	AS3237-06	INCONEL 718	N/A	N/A	PLAIN	Machine Bolt	12pt	0.500000	0.438000	0.303000	NO	NO	0.025000	.2500-28 UNJF-3A
	I	AS3237-07	INCONEL 718	N/A	N/A	PLAIN	Machine Bolt	12pt	0.562000	0.438000	0.303000	NO	NO	0.025000	.2500-28 UNJF-3A
	I	AS3237-08	INCONEL 718	N/A	N/A	PLAIN	Machine Bolt	12pt	0.625000	0.438000	0.303000	NO	NO	0.025000	.2500-28 UNJF-3A
	I	AS3237-09	INCONEL 718	N/A	N/A	PLAIN	Machine Bolt	12pt	0.688000	0.438000	0.303000	NO	NO	0.025000	.2500-28 UNJF-3A
	I	AS3237-10	INCONEL 718	N/A	N/A	PLAIN	Machine Bolt	12pt	0.750000	0.438000	0.303000	NO	NO	0.025000	.2500-28 UNJF-3A
	I	AS3237-11	INCONEL 718	N/A	N/A	PLAIN	Machine Bolt	12pt	0.812000	0.438000	0.303000	NO	NO	0.025000	.2500-28 UNJF-3A
	I	AS3237-12	INCONEL 718	N/A	N/A	PLAIN	Machine Bolt	12pt	0.875000	0.438000	0.303000	NO	NO	0.025000	.2500-28 UNJF-3A
	I	AS3237-13	INCONEL 718	N/A	N/A	PLAIN	Machine Bolt	12pt	0.938000	0.438000	0.303000	NO	NO	0.057000	.2500-28 UNJF-3A
	I	AS3237-14	INCONEL 718	N/A	N/A	PLAIN	Machine Bolt	12pt	1.000000	0.438000	0.303000	NO	NO	0.119000	.2500-28 UNJF-3A
	I	AS3237-15	INCONEL 718	N/A	N/A	PLAIN	Machine Bolt	12pt	1.062000	0.438000	0.303000	NO	NO	0.181000	.2500-28 UNJF-3A
	I	AS3237-16	INCONEL 718	N/A	N/A	PLAIN	Machine Bolt	12pt	1.125000	0.438000	0.303000	NO	NO	0.244000	.2500-28 UNJF-3A
	I	AS3237-17	INCONEL 718	N/A	N/A	PLAIN	Machine Bolt	12pt	1.188000	0.438000	0.303000	NO	NO	0.307000	.2500-28 UNJF-3A
	I	AS3237-18	INCONEL 718	N/A	N/A	PLAIN	Machine Bolt	12pt	1.250000	0.438000	0.303000	NO	NO	0.369000	.2500-28 UNJF-3A
	I	AS3237-19	INCONEL 718	N/A	N/A	PLAIN	Machine Bolt	12pt	1.312000	0.438000	0.303000	NO	NO	0.431000	.2500-28 UNJF-3A
	I	AS3237-20	INCONEL 718	N/A	N/A	PLAIN	Machine Bolt	12pt	1.375000	0.438000	0.303000	NO	NO	0.494000	.2500-28 UNJF-3A
	I	AS3237-21	INCONEL 718	N/A	N/A	PLAIN	Machine Bolt	12pt	1.438000	0.438000	0.303000	NO	NO	0.557000	.2500-28 UNJF-3A
	I	AS3237-22	INCONEL 718	N/A	N/A	PLAIN	Machine Bolt	12pt	1.500000	0.438000	0.303000	NO	NO	0.619000	.2500-28 UNJF-3A
	I	AS3237-23	INCONEL 718	N/A	N/A	PLAIN	Machine Bolt	12pt	1.562000	0.438000	0.303000	NO	NO	0.681000	.2500-28 UNJF-3A
	I	AS3237-24	INCONEL 718	N/A	N/A	PLAIN	Machine Bolt	12pt	1.625000	0.438000	0.303000	NO	NO	0.744000	.2500-28 UNJF-3A
	I	AS3237-25	INCONEL 718	N/A	N/A	PLAIN	Machine Bolt	12pt	1.688000	0.438000	0.303000	NO	NO	0.807000	.2500-28 UNJF-3A
	I	AS3237-26	INCONEL 718	N/A	N/A	PLAIN	Machine Bolt	12pt	1.750000	0.438000	0.303000	NO	NO	0.869000	.2500-28 UNJF-3A
	I	AS3237-27	INCONEL 718	N/A	N/A	PLAIN	Machine Bolt	12pt	1.812000	0.438000	0.303000	NO	NO	0.931000	.2500-28 UNJF-3A

PREFERRED

ACCEPTABLE – NON PPI

RESTRICTED

DO NOT USE

OBSOLETE

NOT RATED

NON FLIGHT