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## Quality Control and Inspection from ASD Sourcing

### Example of a First article inspection report (FAIR)

FIRST ARTICLE INSPECTION REPORT (FAIR)														
<b>Feature:</b> Dia....Diameter ; Ang....Angle ; Rad....Radius ;						○: Value is within tolerance 80%; △: Value is in spec but close to upper limit 10%; ▽: Value is in spec but close to lower limit 10%; X: Value out of Spec; ✓: Meet requirement.								
GD....Geometric Dimension ; LD.....Linear Dimension														
<b>Inspection Gauge</b>						<b>Tooling Status</b>								
Digital Caliper.....(DC)		Block Gauge .....(BG)		Micrometer.....(MM)		Fill Gauge.....(FG)		New Tooling			☒			
Height Gauge.....(HG)		Pin Gauge.....(PG)		Microscope.....(MS)		Special Gauge.....(SG)		Transfer Tooling			☐			
Thread Gauge.....(TG)		Radius Gauge.....(RG)		Visual.....(VS)		Measurement MS...(MMS)		Design Change			☐			
Co.Mea.Machine.....(CMM)		Weighing Machine...(WM)		Gear Rolling Tester.....(GRT)				Repair Tooling			☐			
<b>Customer:</b>	ASD			<b>Material:</b>	Steel			<b>Machine:</b>	N/A					
<b>Part Name:</b>	XXXXXX			<b>Cavities:</b>	N/A			<b>Tooling No:</b>	ASD125					
<b>Part Number:</b>	XXXXXX			<b>Sample Date:</b>	14/05/2012			<b>Inspected By:</b>	rock					
<b>Revision:</b>	A			<b>Inspection Date:</b>	15/05/2012			<b>Checked By:</b>	allen					
<b>Test Data:</b>														
Sheet	Check Code	Location	Feature	Nominal	Tolerance		Actual Value			Value Status			Gauge Code	Remark
					Upper	Lower	Factory sample	Customer's sample						
1				Φ120	0.5	-0.5	119.9	120.01					DC	
2				Φ114	0.5	0.5	113.85	113.71					DC	
3				Φ47	0.5	0.5	47.11	46.91					DC	
4				45	0.5	0.5	45.18	45.01					DC	
5				3	0.5	0.5	2.91	3.13					DC	
6				1	0.5	0.5	1.5	1.4					DC	
7				M8 × 1.0			M8 × 1.0	M8 × 1.25					DC	
8				20	0.5	0.5	20.16	20.28					DC	
9				115	0.5	0.5	115.31	115.02					DC	
10				3	0.5	0.5	2.92	3.15					DC	
11				49.0	0.5	0.5	49.28	49.09					DC	
12				60	0.5	0.5	59.85	60.05					DC	
13				10	0.5	0.5	10.35	10.39					DC	
14				Φ10 × 40	0.5	0.5	9.91 × 39.64	9.97 × 39.89					DC	
15				324	0.5	0.5	324	323.6					DC	
16				274	0.5	0.5	274.2	274					DC	
17				26	0.5	0.5	26.15	26.2					DC	
18				Φ23	0.5	0.5	22.85	22.82					DC	
19				2	0.5	0.5	1.50	2.1					DC	
20				3	0.5	0.5	2.50	3.2					DC	
21				Φ27	0.5	0.5	26.97	27.02					DC	
22				Φ6.5	0.5	0.5	6.57	6.55					DC	
23				Φ11	0.5	0.5	11.09	11.05					DC	
24				Φ12	0.5	0.5	12.10	12.08					DC	
<b>Comments:</b> M8 x 1.0 dimension matched to customer drawing not customer sample														
<b>Appearance:</b> Chrome plating 12 - 18 microns														