



SECTION A-A

Item Number	Document Number	Title	Material	Quantity	Item Number	Document Number	Title	Material	Quantity	Item Number	Document Number	Title	Material	Quantity
1*	TD-1189-3728	SSU DATUMS - SURVEY JUNE 15	(None)	12	34*	TD-1129-4041	WINDOW	Aluminum, 6082-T6	2	65*	TD-1189-3112	SPEC.SOL RAD SHIELD INNER	Aluminum, 6061-T6	4
2*	TD-1189-3727	FC DATUMS - SURVEY JUNE 15	(None)	12	35*	TD-1129-4049	ROLLED AND WELDED TUBE	Aluminum, 5251	2	66*	TD-1189-3113	SPEC.SOL RAD SHIELD END PLATES	Pure Aluminium	4
3*	TD-1189-3726	SSD DATUMS - SURVEY JUNE 15	(None)	12	36*	TD-1189-3116	ToF CAGE (MAUS)	Steel	1	67*	TD-1189-3114	SPEC.SOL RAD SHIELD OUTER	Purer Aluminium	4
4*	TD-1189-3102	SPEC.SOL OVC	Stainless Steel, 304	2	37*	TD-1189-3117	DWNSTRM VIROSTEK PLATE	Steel	1	68*	TD-1152-9359	AFC BOBBIN	Aluminum, 6061-T6	1
5*	TD-1189-3109	SPEC.SOL END PLATES	Stainless Steel, 304	2	38*	TD-1189-3122	DIFFUSER CYLINDER TOP	Stainless Steel, 304L	1	69*	TD-1152-9370	AFC SAFETY WINDOW (LARGE)	Aluminum, 6061	2
6*	TD-1189-3110	SPEC.SOL INNER TUBE	Stainless Steel, 304	2	39*	TD-1189-3142	DIFFUSER CYLINDER DRUM	Stainless Steel, 304L	1	70*	TD-1189-3105	SPEC.SOL MAGNET COVER 1	G10	2
7*	TD-1189-3746	UPSTRM BELLOWS - STEP IV	Stainless Steel, 304	1	40*	TD-1189-3140	DIFFUSER CYLINDER TOP	Stainless Steel, 304L	1	71*	TD-1189-3131	POS'N SENSOR PCB	Phenolic / Glass Laminate	4
8*	TD-1189-3747	DWNSTRM BELLOWS - STEP IV	Stainless Steel, 304	1	41*	TD-1189-3144	DIFFUSER IRIS MOVE RING	Stainless Steel, 304L	1					
9*	TD-1152-9358	AFC OVC	Stainless Steel, 316L	1	42*	TD-1189-3128	DRIVE SHAFT	Stainless Steel, 304L	4					
10*	TD-1152-9361	AFC BORE	Stainless Steel, 316L	1	43*	TD-1189-3132	IRIS GEAR (GENERIC)	Stainless Steel, 304L	4					
11*	TD-1152-9362	AFC FLANGE	Stainless Steel, 316L	1	44*	TD-1189-3454	DIFFUS' DRIVE CONSTR PART	(None)	5					
12*	TD-1152-9363	AFC DSTREAM SUPPORT FLANGE	Stainless Steel, 316L	1	45*	TD-1189-3136	ADJUSTMENT SCREW ETC	Stainless Steel, 304L	8					
13*	TD-1152-9364	AFC MIDDLE SUPPORT FLANGE	Stainless Steel, 316L	1	46*	TD-1189-3127	FLEXIBLE COUPLING	Aluminum, 2017-T4	4					
14*	TD-1152-9365	AFC UPSTREAM SUPPORT FLANGE	Stainless Steel, 316L	1	47*	TD-1189-3134	IRIS PROTECTION PLATE	Polycarbonate	1					
15*	TD-1152-9366	AFC DSTREAM COVER	Stainless Steel, 316L	1	48*	TD-1189-3141	DIFFUSER BLACK LEXAN PLATE	Polycarbonate	1					
16*	TD-1152-9367	AFC UPSTREAM COVER	Stainless Steel, 316L	1	49*	TD-1189-3126	RACK & PINION	Brass, CZ121	4					
17*	TD-1152-9368	AFC MIDDLE COVER	Stainless Steel, 316L	1	50*	TD-1189-3124	ACTUATOR END STOP	Polyurethane (Tufset)	8					
18*	TD-1152-9369	UPSTREAM WINDOW PORT	Stainless Steel, 316L	1	51*	TD-1189-3130	POS'N SENSOR BASE	Polyurethane (Tufset)	4					
19*	TD-1152-9013	MICE-ISIS COORD-SYSTEMS	Steel	5	52*	TD-1189-3129	SHAFT SUPPORT RING B	Tufnol	1					
20*	TD-1152-9314	QP - ENDPLATE	Steel	12	53*	TD-1189-3143	SHAFT SUPPORT RING A	Tufnol	2					
21*	TD-1152-9315	QP - JOINING PLATES	Steel	24	54*	TD-1189-3138	IRIS RINGS (COMBINED)	Tufnol	1					
22*	TD-1152-9320	QP - SIDE PLATE	Steel	24	55*	TD-1152-9354	CENTRE SPHERE (NO MASS)	(None)	12					
23*	TD-1152-9321	QP - TRIANGULAR STAND-OFF	Steel	48	56*	TD-1189-3706	SURVEY POSITION CUBE	(None)	33					
24*	TD-1152-9328	QP - TRIANG BARS MIDDLES	Steel	6	57*	TD-1152-9318	QP - COOLING PIPES	Copper Pipe - Resin Matrix	24					
25*	TD-1152-9323	QP - PIPE COVER	Aluminum, 6061-T6	24	58*	TD-1152-9325	QP - MANIFOLDS	Copper	6					
26*	TD-1152-9327	QP - CORE BODY	Iron	24	59*	TD-1152-9347	MAUS - D2 COILS	Copper	1					
27*	TD-1152-9346	MAUS - D2 BODY	Iron	1	60*	TD-1189-3104	SPEC.SOL MAGNETS	Copper-Ti 4:1 (8070 kg/m ³)	2					
28*	TD-1152-9348	MAUS - D2 COIL RAILS	Steel	1	61*	TD-1152-9360	AFC MAGNET COIL	CuNbTi80%resin glass15%Cu5%	2					
29*	TD-1189-3145	DIFFUSER CONNECTOR BLOCK	Aluminium, 5083	1	62*	TD-1189-3103	SPEC.SOL BOBBIN	Aluminum, 6061-T6	4					
30*	TD-1189-3146	DIFFUSER BRACKET	Aluminium, 5083	1	63*	TD-1189-3106	SPEC.SOL MAGNET COVER 2	Aluminum, 6061-T6	4					
31*	TD-1189-3494	ACTUATOR BLOCK (GAP)	Aluminium, 5083	4	64*	TD-1189-3107	SPEC.SOL BOBBIN COVER	Aluminum, 6061-T6	4					
32*	TD-1189-3496	WELD FLANGE (MAUS)	Aluminium, 5083	2										
33*	TD-1152-9043	TRACKER PATCH PANEL (SOLID)	Aluminum, 6082-T6	2										

A	10-Aug-2015	14	1	1	J S TARRANT	JST	JST	MANUFACTURE ONLY WHEN STATUS IS RELEASED	RELEASED
ISSUE	DATE APPD	MOD. No.	DRAWN BY	CHKD BY	APPD BY	TOLERANCES UNLESS STATED		SURFACE TEXTURE	
						LINEAR ± N/A		N/A	
						ANGULAR ± N/A		μm	
DRAWING CONFORMS TO BS 8888 TOLERANCING ISO 8015						MATERIAL & SPEC. MASS 0.000 kg		FINISH N/A	
DIMENSIONS IN mm UNLESS STATED						REMOVE ALL BURRS			
PROJECTS & MECHANICAL ENGINEERING GROUP (RAL)						USED ON MAUS GEOMETRY			
HARWELL SCIENCE & INNOVATION CAMPUS, RUTHERFORD APPLETON LABORATORY, CHILTON, OXON, OX11 0QX									

MAUS - STEP IV - AS BUILT - MATL LIST

MAUS GEOMETRY

MICE TDR126