

ACAM Instrument Spares

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1. Web Page Links:

Final documentation in the following link:

https://bscw.ing.iac.es/bscw/bscw.cgi/103893#A103893_103946

PLC Hardware spare list in the following link:

http://www.ing.iac.es/~eng/ops/spares/PAC_SparesList.pdf

Instrument overview

<http://www.ing.iac.es/Astronomy/instruments/acam/overview.pdf>

2. General spares and location.

The following table shows the ACAM general spares and location.

Table 1 "Spares ACAM Location"

Components	Units	Comments and Location
Spare Motors	2	Test focal station
Filter wheel Counter switches	3	Test focal station Blue cabinet RS code 341-6559
Door switches Interlock	1	Test focal station Blue cabinet RS code 289-7812
Home & Limits switches	2	Test focal station Allen-Bradley 871FM-MINP5-E2
SLU Encoder	1	Kubler inc. encoder, PLC cabinet aluminizing area
Prontor CCD Shutter	1	Test focal station
Pneumatics actuators and sensors		All most the pneumatics components can be found at the two blue cabinets in the test focal station. Acam pre-slit mask slide piston Electrical valvule Sensors Detent actuators for SLU and Filter wheels Etc....
Belt Drive	2 meters	Test focal station

Table 2 "Blue cabinets at the test focal station"



Table 3 "Test focal station"



Table 4 "PLC cabinet aluminizing area"



3. Construction list of materials

For reference the next table shows the construction “general components list of materials”

Table 5 ACAM Components

ACAM components to purchase BOM						
GA	ITEM	QTY	OTY spares	ORDER NUMBER	DESCRIPTION	COMPANY
SU	A	6	2	GFM-0607-10	BEARING	IGUS
SU	B	1	0	NW-02-80	DRYLIN N Carriage	IGUS
SU	C	2	0	NS-01-80 120mm long no holes	DRYLIN N Rail	IGUS
SU	D	1	0	NW-02-80-LLZ	DRYLIN N Carriage floating	IGUS
SU	E	1	2m	ZLW-1040-02-100-R-250 left & right drives	drylin belt drive	IGUS
SU	F	1	0	MDUB25 150 D -A80CL3	Plate Cylinder/Double Acting Single Rod	SMC
SU	G	1	1	RSDQA12 10TR A90L-	Detent Roller Actuator A90L type of auto switch	SMC
SU	H	1	1	3700	Encoder	KUBLER
SU	J	2	2	7068.w032	Adjusting Knob	WIXROYD
SU	K	2	1	CPOCG25-10-RDC8	Drive Coupling	MISUMI
SU	L	1	1	23HSX-306	Belt drive Stepper Motor	Mclennan
SU	M	2	0	3271.w606	index plunger	WIXROYD
SU		1	Yes	Not shown in GA (MVDH to spec)	5/2 way DA 24VDC Solenoid	SMC
SU		1	Yes	Not shown in GA (MVDH to spec)	3/2 way SA 24VDC Solenoid	SMC
SU		3	2	CMP to spec. +/- travel & home	Proximity micro switch	
GA	ITEM	QTY	OTY spares	ORDER NUMBER	DESCRIPTION	COMPANY
MS	A	4	1	GFM-0607-10	BEARING	IGUS
MS	B	2	0	HCCG6-92	Hinge Pin	MISUMI
MS	C	2	0	PMKK10	Shaft	MISUMI
MS		2	1	CMP to spec. Door interlock switches	Interlock switch	
GA	ITEM	QTY	OTY spares	ORDER NUMBER	DESCRIPTION	COMPANY
L1	A	6	1	IT-9sh127N	Axial Lens adjuster	STANDA
L2	B	2	1	TBC	Compression spring	Leespring
L3	C	3	3	TBC	Tension spring	Leespring
GA	ITEM	QTY	OTY spares	ORDER NUMBER	DESCRIPTION	COMPANY
FB	A	2	0	W 638-8-2Z	Bearing	SKF
FB	B	4	3	V9NMLR	Micro switch	BRUGESS / AMIDATA
FB	C	2	1	CJPB10_15_H6_B	Detent pin cylinder	SMC
FB	D	2	0	FXJC8-10-F6-MA6	Cantilever Pin	MISUMI
FB	E	2	2	UMSB6-28	Ball bearing (Friction drive Wheel)	MISUMI
FB	F	1	0	FXHA6-22-F6-APC	Cantilever Pin	MISUMI

FB	G	1	0	FXHA6-6-F6-APC	Cantilever Pin	MISUMI
GA	ITEM	QTY	OTY spares	ORDER NUMBER	DESCRIPTION	COMPANY
FS	A	2	3	TBC	Tension spring	leespring
FS	B	2	0	SSFTF10-85-J8-M6-DKC	Linear Shaft	MISUMI
FS	C	2	0	SSFTF12-85-J12-M6-DKC	Linear Shaft	MISUMI
FS	D	2	0	SHHPS8-3	Hinge	MISUMI
FS	E	2	0	NKSF8	Dimple Knob	MISUMI
GA	ITEM	QTY	OTY spares	ORDER NUMBER	DESCRIPTION	COMPANY
LH	A	1	0	3205 A 2R 31	Bearing	SKF
LH	B	1	1	RJUM-03-10	Polymer Self aligning plain bearing	IGUS
LH	C	1	1	RJM-01-12	Polymer plain bearing	IGUS
LH	D	1	0	UABR-26-112	Handle	MISUMI
LH	E	1	1	4 mm dia dowel x 20 long	Dowel	?
GA	ITEM	QTY	OTY spares	ORDER NUMBER	DESCRIPTION	COMPANY
RH	A	1	0	3205 A 2R 31	Bearing	SKF
RH	B	1	1	RJUM-03-10	Polymer Self aligning plain bearing	IGUS
RH	C	1	1	RJM-01-12	Polymer plain bearing	IGUS
RH	D	1	0	UABR-26-112	Handle	MISUMI
RH	E	1	1	4 mm dia dowel x 20 long	Dowel	?
GA	ITEM	QTY	OTY spares	ORDER NUMBER	DESCRIPTION	COMPANY
LD	A	1	0	4200 ATN9	Bearing	SKF
LD	B	2	0	61800-2Z	Bearing	SKF
LD	C	1	0	23HSX-306	Stepper Motor	Mclennan
LD	D	1	1	CPLSC 20-8-8	Drive Coupling	MISUMI
LD	E	1	1	UMRW50	Drive Wheel	MISUMI
GA	ITEM	QTY	OTY spares	ORDER NUMBER	DESCRIPTION	COMPANY
RD	A	1	0	4200 ATN9	Bearing	SKF
RD	B	2	0	61800-2Z	Bearing	SKF
RD	C	1	2	23HSX-306	Stepper Motor	Mclennan
RD	D	1	0	CPLSC 20-8-8	Drive Coupling	MISUMI
RD	E	1	1	UMRW50	Drive Wheel	MISUMI
GA	ITEM	QTY	OTY spares	ORDER NUMBER	DESCRIPTION	COMPANY
LB	A	6	1	IT-9sh127N	Axial Lens adjuster	STANDA
LB	B	1	1	TBC	Compression spring	Leespring
LB	C	3	3	TBC	Tension spring	Leespring
LB	D	3	1	SS M10 spehrical washer set	Washer	?
GA	ITEM	QTY	OTY spares	ORDER NUMBER	DESCRIPTION	COMPANY
CM	A	3	1	TBC	Compression Spring	Leespring
CM	B	1	1	TBC	O ring	Walker
CM	C	3	1	Cryostat over centre clamps	?	?

covers spain
MISUMI UK
No.1 The courtyard

IGUS madrid
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