



CTA+ LARGE SIZED TELESCOPE SOUTH



LSTS-BOM-INAF-721.00.00-00 - 01
Actuator BOM

	Name	Role (Institute/ Company)	Date	Signature
Prepared by	Andrea Busatta	PM & SE (INAF)	25.10.2023	
Verified by	Massimiliano Mattioli	Management (INAF)	25.10.2023	
Approved by	Angelo Antonelli	PI (INAF)	25.10.2023	

Front page - 1 of 5



Finanziato
dall'Unione europea
NextGenerationEU



Ministero
dell'Università
e della Ricerca









Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA

This document is property of INAF and INFN.




Code:	LSTS-BOM-INAF-721.00.00-00	<div>  <div>LARGE SIZED TELESCOPE SOUTH</div>    </div>					
Title:	Actuator BOM						
Issue:	01						
Issue date:	14.12.2023						
Item	Component Type	Part Number	BOM Structure	QTY	Description	Company	Reference Filename
1	Assembly	FL001	Normal	1	Flanschlager komplett		03_Flanschlager_kpl_2021-09-21.pdf
1.1	Part	FL0001	Normal	1	Sockel_Flanschlager		FL0001_Sockel_Flanschlager.pdf
1.2	Part	FL0002	Normal	1	Gewinding		FL0002_Gewinding.pdf
1.3	Assembly	Fluro GE 16 EC-NIRO	Purchased	1	Gelenklager Radialspiel C1	Fluro	
1.4	Part	Bossard 1234196	Purchased	1	Innensechskantschraube M6x20 DIN 912	Bossard	
1.5	Part	Brütsch-Rüegger 839923.0550	Purchased	2	Oetiker Bride 7x45.3-48.5	Brütsch-Rüegger	
1.6	Part	Brütsch-Rüegger 860110.2810	Purchased	1	O-ring di36x3 (To be procured in FKM - VITON)	Brütsch-Rüegger	
1.7	Part	FL0003	Normal	1	Zentrierstueck		FL0003_Zentrierstueck.pdf
1.8	Part	FB0001	Normal	1	Faltenbalg Spritzguss	Franksa FBZ0064 (nach Zeichnung 0366 Index 1)	FB0001_Faltenbalg_Spritzguss.pdf
1.9	Part	Bossard 1233920	Purchased	4	Innensechskantschraube M4x16 DIN 912	Bossard	
2	Assembly	107-051500-017	Normal	1	AMC komplett		
2.1	Assembly	Rohr_Abdeckung_mit_Feder_Clip_verriegelt	Normal	1	Rohr_Abdeckung_mit_Feder_Clip_verriegelt		
2.1.1	Part	107-051517 (A0004)	Normal	1	Rohr-Abdeckung		107-051517_A0004_2022-03-30_Rohr-Abdeckung.pdf
2.1.2	Part	A0005	Normal	3	Feder-Clip_verriegelt		A0005_Feder_Clip_verriegelt.pdf
2.1.3	Part	Bossard 1245074	Purchased	3	Zylinderschraube M2.5x6	Bossard 1245074	
2.2	Assembly	Fixieren_der_Motoreinheit	Normal	1	Fixieren_der_Motoreinheit		
2.2.1	Assembly	M001	Normal	1	Motoreinheit		05_Motoreinheit_kpl_2021-09-21.pdf
2.2.1.1	Assembly	Montage_Motorsteuerung	Normal	1	Montage_Motorsteuerung		
2.2.1.1.1	Assembly	M003	Normal	3			
2.2.1.1.1.1	Part	M0002	Normal	1	Distanzbolzen		M0002_Distanzbolzen.pdf
2.2.1.1.1.2	Part	Bossard 1178857	Purchased	1	Gewindestift - Inbus_Stiftschraube_M2x10	Bossard	

BOM - 2 of 5

Code:	LSTS-BOM-INAF-721.00.00-00	  					
Title:	Actuator BOM						
Issue:	01						
Issue date:	14.12.2023						
Item	Component Type	Part Number	BOM Structure	QTY	Description	Company	Reference Filename
2.2.1.1.2	Assembly	Motorsteuerung	Inseparable	1	Actuator PCB		9471-01_standard_PlacePlan_Top.pdf 9471-01_standard_PlacePlan_Bottom.pdf amc_mainboard_r1b_schematic.pdf BOM_9471-01_Master.pdf
2.2.1.1.3	Part	Bossard 1233688	Purchased	3	Innensechskantschraube M2x6 DIN 912	Bossard	
2.2.1.1.4	Assembly	Motor_komplett_Kabel_angeschlossen	Normal	1	Motor_komplett_Kabel_angeschlossen		
2.2.1.1.4.1	Part	Stecker_Motorkabel	Purchased	1			
2.2.1.1.4.2	Part	Oriental_Motor_C026Q_9012K	Purchased	1	Schrittmotor		
2.2.1.1.4.3	Part	Motorkabel_angeschlossen	Purchased	1			
2.2.1.1.4.4	Part	SP0003	Normal	1	Mitnehmer (To be changed with Huco coupling 232.13)		SP0003_Mitnehmer.pdf
2.2.1.1.4.5	Part	Bossard 1178989	Purchased	2	Gewindestift - Inbus_Stiftschraube_M3x5	Bossard	
2.2.1.1.4.6	Assembly	M002	Normal	1	Winkeldecoder_komplett		
2.2.1.1.4.6.1	Part	M0003	Normal	1	Winkeldecodermagnethalter		M0003_Winkeldecodermagnethalter.pdf
2.2.1.1.4.6.2	Part	BMN-35-H (NdFeB)	Purchased	1	Winkeldecodermagnet - magnetisiert	Bomatec	
2.2.1.1.4.7	Part	Bossard 1233807	Purchased	1	Innensechskantschraube M3x10 DIN 912	Bossard	
2.2.1.1.5	Part	M0001	Normal	1	Motorhalterung		M0001_Motorhalterung.pdf
2.2.1.1.6	Part	Bossard 1233815	Purchased	4	Innensechskantschraube M3x12 DIN 912	Bossard 1233815	

Code:	LSTS-BOM-INAF-721.00.00-00	  					
Title:	Actuator BOM						
Issue:	01						
Issue date:	14.12.2023						
Item	Component Type	Part Number	BOM Structure	QTY	Description	Company	Reference Filename
2.2.1.2	Assembly	Hallsonde_komplett_Montage	Inseparable	1	Hallsonde_komplett_Montage		04_Hallsonde_kpl_2021-09-21.pdf Hallsonde_PCB_Drawing_Series_v06.pdf hall_sens_schematic_v06_dec12.pdf 11245.FA_QT-Partlist-1.pdf
2.2.2	Assembly	V001	Normal	1	Vorderteil_komplett		
2.2.2.1	Assembly	A001	Normal	1	Aussenhuese_komplett		02_Aussenhuese_kpl_2021-09-21.pdf
2.2.2.1.1	Part	A0003	Normal	1	Jum-S-8157146-XXXXX Iglidur J Sondergleitfolie drylin R-JUM-11-25_Gleitfolie ähnlich Kundenbezeichnung R-JUM-11-25	IGUS	A0003_drylin_R_Gleitfolie_JUM_11_25.pdf
2.2.2.1.2	Part	A0002	Normal	1	Nutenstein		A0002_Nutenstein.pdf
2.2.2.1.3	Part	Brütsch-Rüegger 860110.0435	Purchased	1	O-Ring di7x1.5 (To be procured in FKM - VITON)		
2.2.2.1.4	Part	Bossard 1179020	Purchased	1	Gewindestift - Inbus_Stiftschraube_M3x12	Bossard	
2.2.2.1.5	Part	A0001	Normal	1	Aussenhuese		A0001_Aussenhuese.pdf
2.2.2.2	Assembly	Montage_Spindel_Stempel	Normal	1	Montage_Spindel_Stempel		08_Stempel_kpl_2021-09-21.pdf
2.2.2.2.1	Assembly	ST001	Normal	1	Stempel_komplett		
2.2.2.2.1.1	Assembly	Einkleben_Hallsondenmagnet_in_Stempel	Normal	1	Einkleben_Hallsondenmagnet_in_Stempel		
2.2.2.2.1.1.1	Part	Hallsondemagnet	Purchased	1	Magnet Hallsonde (NdFeB)	Webcraft	
2.2.2.2.1.1.2	Part	107-051514 (ST0001)	Normal	1	Stempel		107-051514_ST0001_2022-03-30_Stempel.pdf
2.2.2.2.1.2	Part	Bossard 1179071	Purchased	1	Gewindestift - Inbus_Stiftschraube_M4x4	Bossard	
2.2.2.2.2	Assembly	SP001	Normal	1	Spindel_komplett		07_Spindel_kpl_2021-09-21.pdf
2.2.2.2.2.1	Part	ST0002	Normal	1	Sicherungsmutter		ST0002_Sicherungsmutter.pdf
2.2.2.2.2.2	Part	SP0002	Normal	1	Spindelmutter		SP0002_Spindelmutter.pdf

BOM - 4 of 5

Code:	LSTS-BOM-INAF-721.00.00-00	  					
Title:	Actuator BOM						
Issue:	01						
Issue date:	14.12.2023						
Item	Component Type	Part Number	BOM Structure	QTY	Description	Company	Reference Filename
2.2.2.2.2.3	Part	Bossard 1254758	Purchased	1	Wellensicherung A8	Bossard	
2.2.2.2.2.4	Part	SP0003	Normal	1	Mitnehmer (To be changed with Huco coupling 232.13)		SP0003_Mitnehmer.pdf
2.2.2.2.2.5	Part	Bossard 1254715	Purchased	1	Wellensicherung A5	Bossard	
2.2.2.2.2.6	Part	Bossard 1178989	Purchased	2	Gewindestift - Inbus_Stiftschraube_M3x5	Bossard	
2.2.2.2.2.7	Part	SP0001	Normal	1	Spindel		SP0001_Spindel.pdf
2.2.2.2.2.8	Part	Georg Rutz AG 3200 A-2RS1TN9/C0/FM 222/8%	Purchased	1	Schraegkugellager_Typ_3200A_2Z	Georg Rutz	
2.2.2.3	Part	SP0004	Normal	1	Kupplung (To be changed with Huco coupling 236.13)		SP0004_Kupplung.pdf
2.2.2.4	Part	Brütsch-Rüegger 860110.0435	Purchased	1	O-Ring di55x1.5 (To be procured in FKM - VITON)	Brütsch-Rüegger	
2.2.3	Part	Bossard 1033085	Purchased	4	Innensechskantschraube M3x20 DIN 912	Bossard	
2.3	Assembly	107-051500-016	Normal	1	Abschlussdeckel komplett (This assembly will have some minor design changes to have a 4pins connector)		01_Abschlussdeckel_kpl_v2_2021-09-28.pdf
2.3.1	Part	107-051504 (AB0001)	Normal	1	Abschlussdeckel (To be manufactured in Aluminium AW-6082 AlSi1MgMn)		107-051504_AB0001a_2022-03-30_Abschlussdeckel.pdf
2.3.2	Part	Brütsch-Rüegger 860110.0435	Purchased	1	O-Ring di55x1.5 (To be procured in FKM - VITON)	Brütsch-Rüegger	
2.3.3	Assembly	Lumberg_Stecker_0314 03_v2	Purchased	1	Lumberg Stecker (it will be changed with 4 pins connector)	Lumberg Stecker	
2.3.4	Part	AB0002	Normal	1	Verdrehsicherung (It may be affected by minor changes)		AB0002_Verdrehsicherung.pdf
2.3.5	Part	AB0003	Normal	1	Powerprint Isolation (It may be affected by minor changes)		AB0003_Powerprint_Isolation.pdf
2.3.6	Assembly	Powerkabel_komplett_Montage_v2	Inseparable	1	Powerkabel_komplett_Montage (It may be affected by minor changes)		06_Powerkabel_kpl_2021-09-21.pdf

BOM - 5 of 5