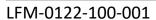
LFM-0122-100-001



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			00-01									DrawingNumber:											-	LFM-0122-100-001.idw									
PartTitle: Fei				emoral head 32mm									Visual testing date:											_	04.04.2022								
														Ге	sti	ng	g iı	nf	or	ma	ati	or	1										
Test standards:				D	DIN EN 13018										rinformation Printing process/ machine:												FDM (metal)/ Makerbot Method X						
Test instruction:			ir	internal											Printing specifications:											_	-						
Test scope: 1			1	100%										Acceptance rule:												internal							
Tes	Test device:				Digital vernier caliper										Testing aids:												Lamp, Camera, Lens						
Illur	minance m	neter:		٧	Voltcraft LX-10										Lu	ıx r	ne	as	ure	ed	:					_	455						
Me	asuring de	vice n	0.:	1	66	28	53																						_				
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			_ E	Visual inspection - documenta								nta	tio	n a	ассо	ord	ing	to	DI	N E	N 1	30	18			Evaluation 2)							
Exam area		Target [mm]	Scope ¹⁾ / Actual [mm]	100	101	102	103	104	105	106	107	108	109	110	111	112	113	113	114	115	1110	11/	118	118-a	118-D	707	707	303	302	coc	Α	NA	Remark
									Ш							Par	rt p	roi	per	ties	<u> </u>					_							
1	Outer sphere		ES100	x	Ī											Π	Ī	T		T	×		T		T	T		T	Ī	Ī	х		
2	Drilling		ES100	х															х	<u> </u>				t				l			х		
3	Initial		ES100	х												x															х		regrinded
	layer								Ш						D	_	<u> </u>	ime	ens	ion	c					_							30 777
(D1)	Overall	38,40	38,64	T	Τ	T							1	1	 		T	T		T	, 	Τ.	.]	Τ.	<u>. T</u>	Ŧ	T	T	Τ	Ī			Davieties essentes
$\vdash =$	diameter Overall		•		-												+	+		+		,	'	+	(-	-		Х		Deviation accepted
(D2)	height	16,70	16,72																					-							Х		
(D3)	Hole depth	28,73	28,76																												Х		
D4	Initial hole width	34,59	34,63																												Х		
Lege																																	
	S Exterion					%)			2	•									are are		•			ed									
Surface irregularities: 100 General			107 Layer delamination										114 Bad corners												Infill irregularities: 201 False infill								
101 Rough surface 102 Blobs on surface				108 Curling 109 Warping									115 Bad overhangs 116 Waves on surfaces												202 Defect infill								
103 Over extrusion 104 Under extrusion				110 Overheating 111 Layershifting										117 z-seam on surfaces 118 Dimensional issue												Other irregularities: 301 Clogged extruder							
105 Gaps in Walls				112 Bad support structures									1	118-a Undersize											:	302 Broken filament							
106 Stringing				113 Missing support								1	118-b Oversize												303 No print bed adhesion								
	endix 🔀	-	NO)		Ge	ne	ral	te	st	ins	str	uc	tio	ns	, a	CC	ер	taı	nce	e r	ule	2,	orii	nti	ng	pr	ор	ert	tie	es/ 2 pa	ages	
Remarks:						•		A	BS	W													no ılat					se	a	n OEM	metal t	emplate does no	
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	Checked		Rated	Customer release (if requested)					
Name:	Inspector #1	Name:	Production manager	Name:					
Test location:	Test area								
Date:	04.04.2022	Date:	04.04.2022	Date:					
Signature:	XXX	Signature:	XXX	Signature:					

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Appendix

Test instruction Acceptance rule	 The assessment and evaluation must be carried out by experienced and trained personnel. Visual inspection after printing the part. The surfaces must be free of any coating, dirt, dust, powder etc. The testing/ inspection is carried out in daylight or under artificial light. The illuminance during the test must be at least 350lx, 500lx is recommended. There is currently no existing standard for 3D printing that defines the possible irregularities and limits for evaluation. For this reason, only internal evaluation standards can be used. The acceptance of the examinations here is based on the individual as-
	sessment of the examiner. Part images after printing
General view immediately after printing	Bay 5.0
View under test conditions	

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View of the defects (if occurred)	
z-seam on surface	
Bad overhangs at the end of the hole	
Bad raft layer	