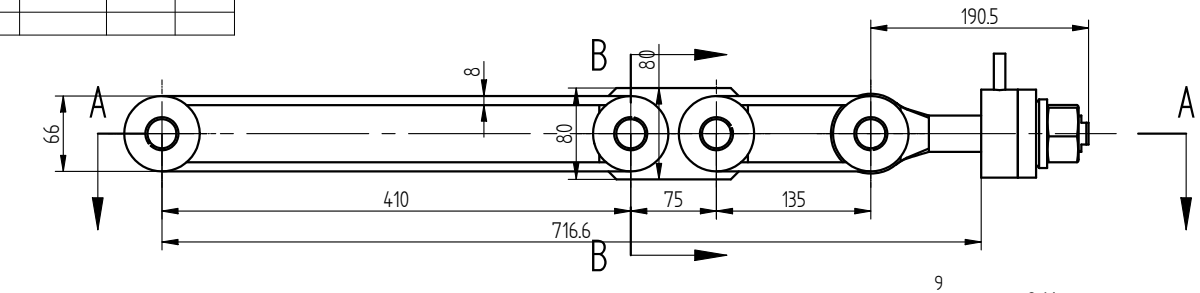
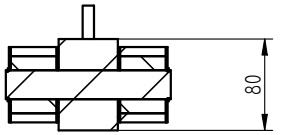
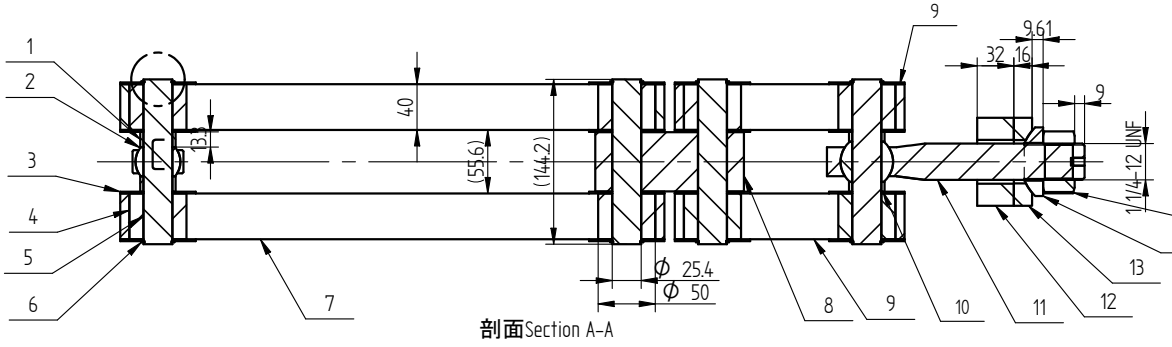
标记	处数	更改文件号	签 字	日 期

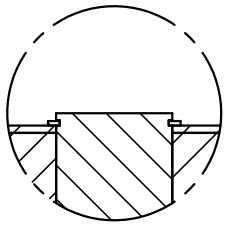


剖面Section B-B

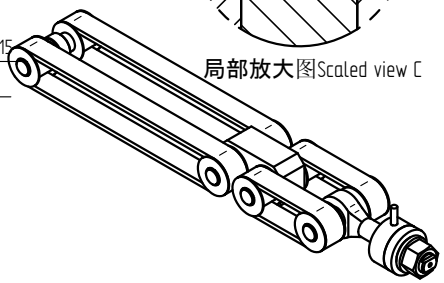




剖面Section A-A



局部放大图Scaled view C



技术要求 Technical Req.:

1、所有材料均需提供材料质量证明书。Properties certificate shall be provided for all materials.

2、冷、热端拉带上不允许有划痕、刮碰伤等影响强度的缺陷 Support bands shall be free of defect that might effect strength of it.

3、所有元件在装配前需清洁处理，去除油脂、污物、灰尘等，吹干或烘干，且干燥保存，具体参见“MICE 冷质量和低温恒温器清洗及焊接程序”。 Comply to “Cleaning and Welding Prcedure for MICE Cold Mass and Cryostat” clean all parts before assembly and keep dry.

4、组装后，需进行支撑拉带 1.25 倍设计载荷（1.25x200MPa）疲劳拉伸实验，常温下保持 24 小时。After assembly, conduct fatigue tension test with 1.25 time design load (1.25x200Mpa), keep loading for 24 hours as room temperature,

5、冷质量支撑拉带组件承受的最大载荷：175KN。Max. Load on the assembly: 175KN.

6、冷质量支撑拉带组件的最低工作温度-269 度。Min. Operation temperature of the assembly: -269℃.

7、载荷实验时，必须拆下力传感器。Remove "Load Cell" when doing the test.

8、紧固室温端螺母时，须防止拉带转动受扭，根据杆端凸台配制防转工装。Based on the lug shape at the end of rod to build a unti-rotating feature. Prevent support band from twisting as screwing down warm end nut.

9、 未注尺寸公差按 GB/T 1804-2000 m 级，未注形位公差按 GB/T 1184-1996 k 级制造。See title box for un-marked tolerance.

序号	代号	名称	数量	材料	单重	总重	备注
15		螺母 1 1/4"-12 ASK ABOUT	1	316		.000	
14	MMSF-0302-0014	球面垫片1 SPHERICAL WASHER 1 FOR COLD MASS SUPPORT	1	316		.184	
13	MMSF-0302-0013	球面垫片2 SPHERICAL WASHER 2 FOR COLD MASS SUPPORT	1	316		.419	
12	MMSF-0302-0012	力传感器 LOAD CELL FOR COLD MASS SUPPORT	1			.000	
11	MMSF-0302-0011	杆端轴承 ROD END BEARING FOR COLD MASS SUPPORT	1			.000	
10	MMSF-0302-0010	间隔环2 SPACER RING 2 FOR COLD MASS SUPPORT	2	304		.033	
9	MMSF-0302-0009	热端拉带 WARM END SUPPORT BAND FOR COLD MASS SUPPORT	2	E-Glass		.868	
8	MMSF-0302-0008	中间热隔断 THERMAL INTERCEPTION FOR COLD MASS SUPPORT	1	316		3.649	
7	MMSF-0302-0007	冷端拉带 COLD END SUPPORT BAND FOR COLD MASS SUPPORT	2	E-Glass		1.924	
6	MMSF-0302-0006	轴用卡环 1" RETAINING RING FOR COLD MASS SUPPORT	8	304		.013	
5	MMSF-0302-0005	支撑轴 PIN FOR COLD MASS SUPPORT	4	Inconel 714		2.333	
4	MMSF-0302-0004	支撑轴套 BUSHING FOR COLD MASS SUPPORT	8	304		3.636	
3	MMSF-0302-0003	挡圈 WASHER FOR COLD MASS SUPPORT	16	304		.582	
2	MMSF-0302-0002	冷端球轴承 COLD END SPHERICAL BEARING FOR COLD MASS SUPPORT	1			.178	
1	MMSF-0302-0001	间隔环1 SPACER RING 1 FOR COLD MASS SUPPORT	2	304		.051	

设 计			SSRF上海光源			
绘 图						
校 核						
审 核			计算机文件名	MMSF-0302-0000AQ.dft	冷质量及冷屏	
会 签			制图软件	Solid Edge	冷质量支撑拉带组件	
			数 量 / 重 量	比 例 / 图 幅		
审 定			8 / 14.73	1/4 / A3	MMSF-0302-0000	版本 A
批 准			共 1 张	第 张		

REV	AUTHOR	APPROVER	DATE	CHANGE DESCRIPTION
A				INITIAL REVISION

UNLESS OTHERWISE SPECIFIED: DRAWING 0± .25 .00±.125 .000±.050; FRACTIONS: ± -/--; ANGLES: ± --°/MM; MACH. SURFS.: 125 ✓ (AS DESIRED); REF-ASME Y14.5M-1994. THREADS ARE CLASS 2B. BREAK EDGES .016 MAX. ON MACHINED WORK. REMOVE BURRS, WELD SPLATTER & LOOSE SCALE.

PROJECT NAME: MICE

DO NOT SCALE PRINT | CATEGORY CODE | SCALE: 1:1 | MU 1025 | FRIST ANGLE PROJECTION

ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY
UNIVERSITY OF CALIFORNIA

MUON IONIZATION COOLING EXPERIMENT (MICE)
MICE/MUCOOL SUPERCONDUCTING COUPLING MAGNET
COLD MASS SUPPORT ASSEMBLY

SHEET 1 OF 1 | SIZE: 5 | DWG NO: 27H880 | REV A