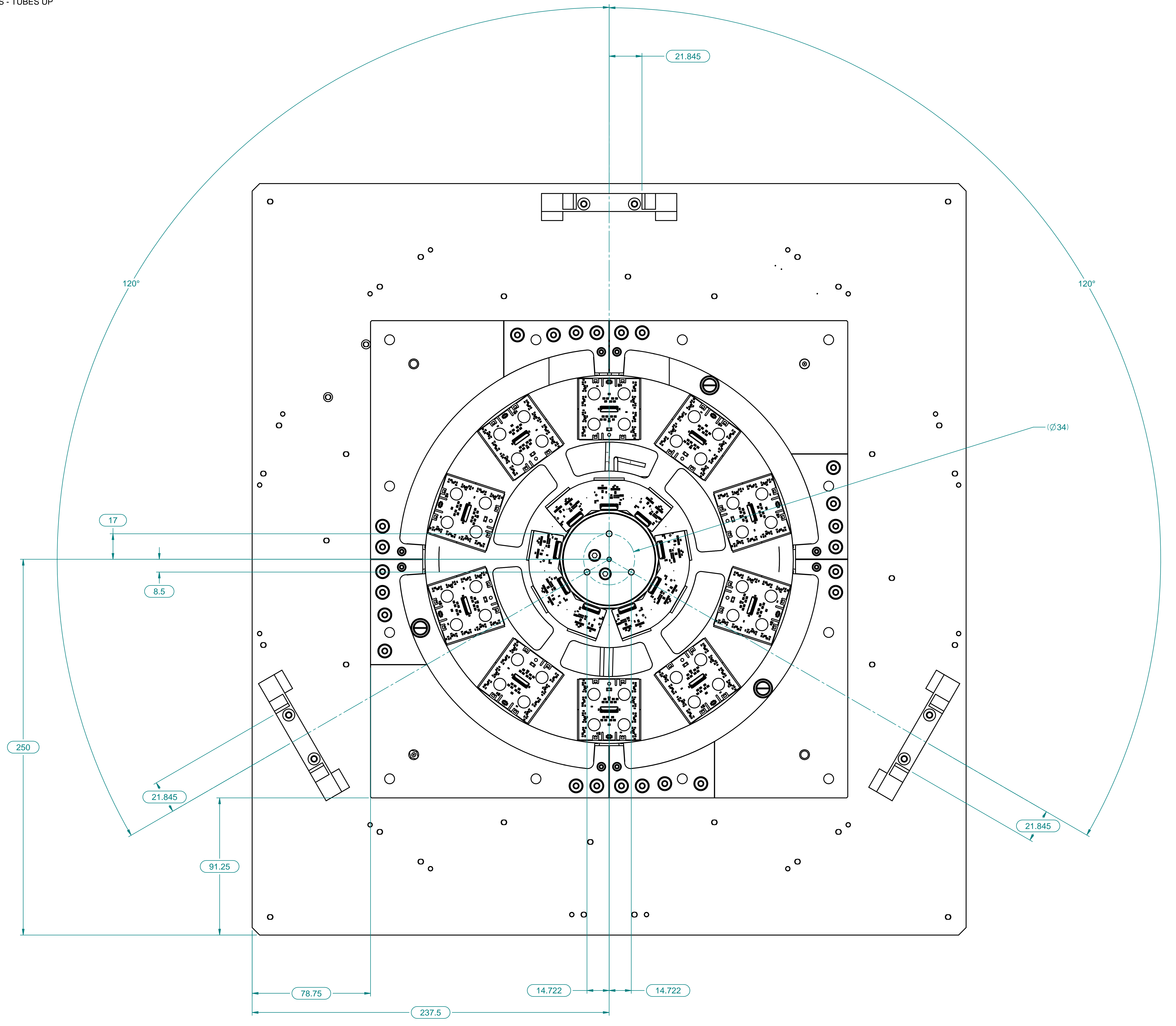


CMM INSPECTION OF TRIPLET TOOLING

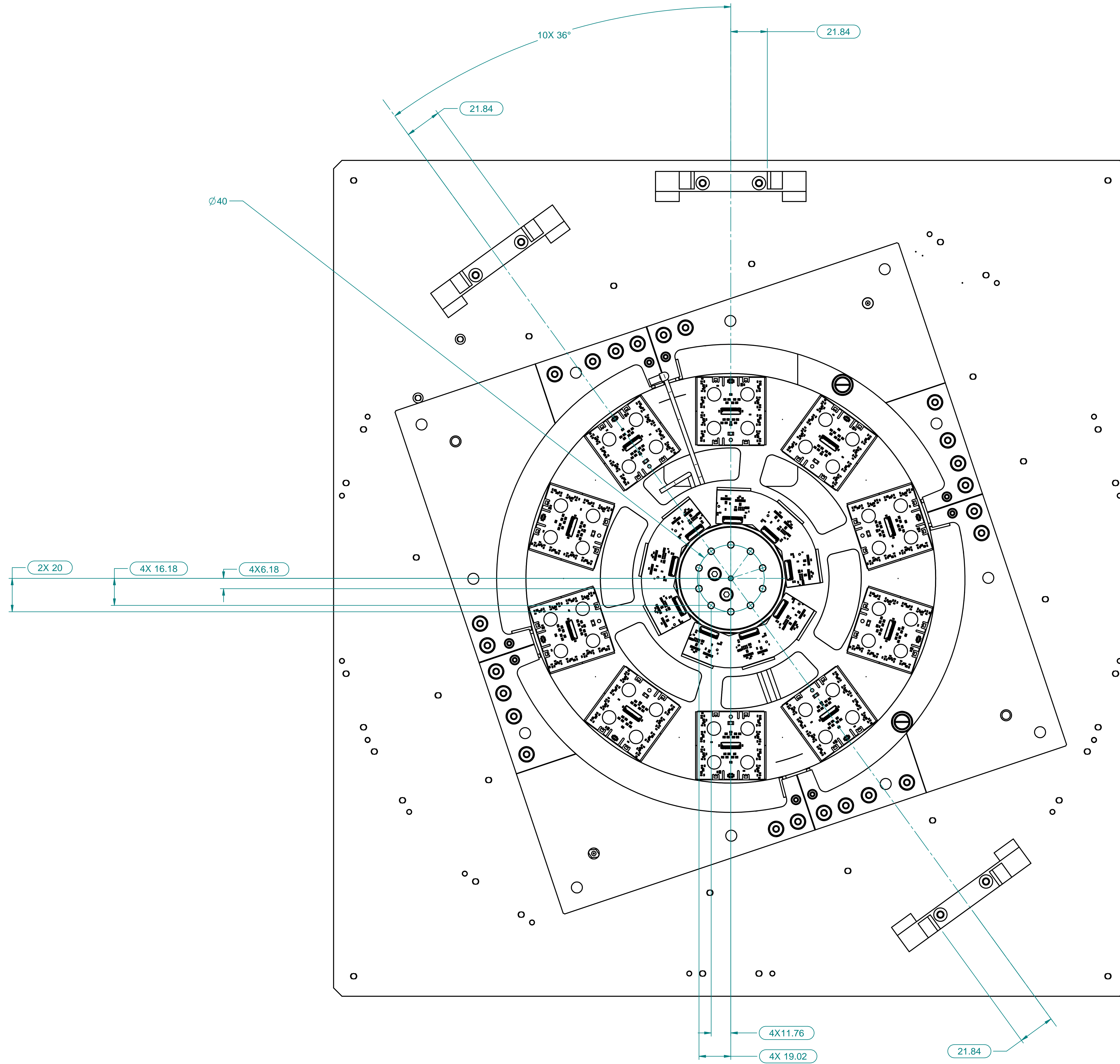
- NOTES:
- SHEET 1: CMM INSPECTION OF TRIPLET TOOLING
 - SHEET 2: CMM INSPECTION OF QUAD TOOLING
 - SHEET 3: TRIPLET FE CHIP COORDINATES
 - SHEET 4: QUAD MODULE COORDINATES - TUBES DOWN
 - SHEET 5: QUAD MODULE COORDINATES - TUBES UP



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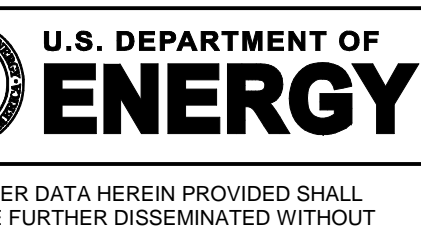
---	DIMENSIONING AND TOLERANCING IS IAW ASME Y14.5-2009	SCALE: 1:2 DUPLICATE SCALE DRAWING	ESTIMATED MASS: 9.757 kg	DWG TYPE: ASSEMBLY
---	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS	SLAC ENERGY	ATLAS ITk 19-1 LOADING TOOLING LOADING FIXTURE, RING	
---	TOLERANCES BREAK EDGES 0.13 - 0.4 INTERNAL CORNERS R 0.4 MAX	THE DRAWINGS, SPECIFICATIONS AND OTHER DATA HEREIN PROVIDED SHALL NOT BE COPIED, PUBLISHED OR OTHERWISE FURTHER DISSEMINATED WITHOUT PRIOR WRITTEN PERMISSION OF STANFORD UNIVERSITY/SLAC		
---	ANGLE ± 1° ALL SURF	ENGR S. NEWBRY DWN S. NEWBRY CHKR ---	DATE 20211007	APPROVALS ---
---	GENERAL TOLERANCES	DRAWING NUMBER REF-000160474		REVISION NUMBER A
---				E

CMM INSPECTION OF QUAD TOOLING



REV	DESCRIPTION	DWN	CHKR	APV	DATE

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02-22-2022 08:35:12 AM

---	---	SCALE: 1:2 DUPLICATE SCALE DRAWING	ESTIMATED MASS: 9.757 kg	DWG TYPE: ASSEMBLY
---	---	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS	  ATLAS ITk 19-1 LOADING TOOLING LOADING FIXTURE, RING	
---	---	TOLERANCES BREAK EDGES 0.13 - 0.4 INTERNAL CORNERS R 0.4 MAX	<small>THE DRAWINGS, SPECIFICATIONS AND OTHER DATA HEREIN PROVIDED SHALL NOT BE COPIED, PUBLISHED OR OTHERWISE FURTHER DISSEMINATED WITHOUT PRIOR WRITTEN PERMISSION OF STANFORD UNIVERSITY/SLAC</small>	
---	---	ANGLE ± 1° ALL SURF 125	ENGR S. NEWBRY DWN S. NEWBRY CHKR ---	DATE: 20211007 APPROVALS: --- DRAWING NUMBER: REF-000160474 REVISION NUMBER: A
---	---	DIMENSIONS: <6 ±0.1 >6 ±0.2 >30 ±0.3 >120 ±0.5 >315 ±0.8 >1000 ±1.2 GENERAL TOLERANCES: ±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2 ±2	NEXT ASSEMBLIES: --- --- ---	CAD FILE NAME: REF-000160474.dft

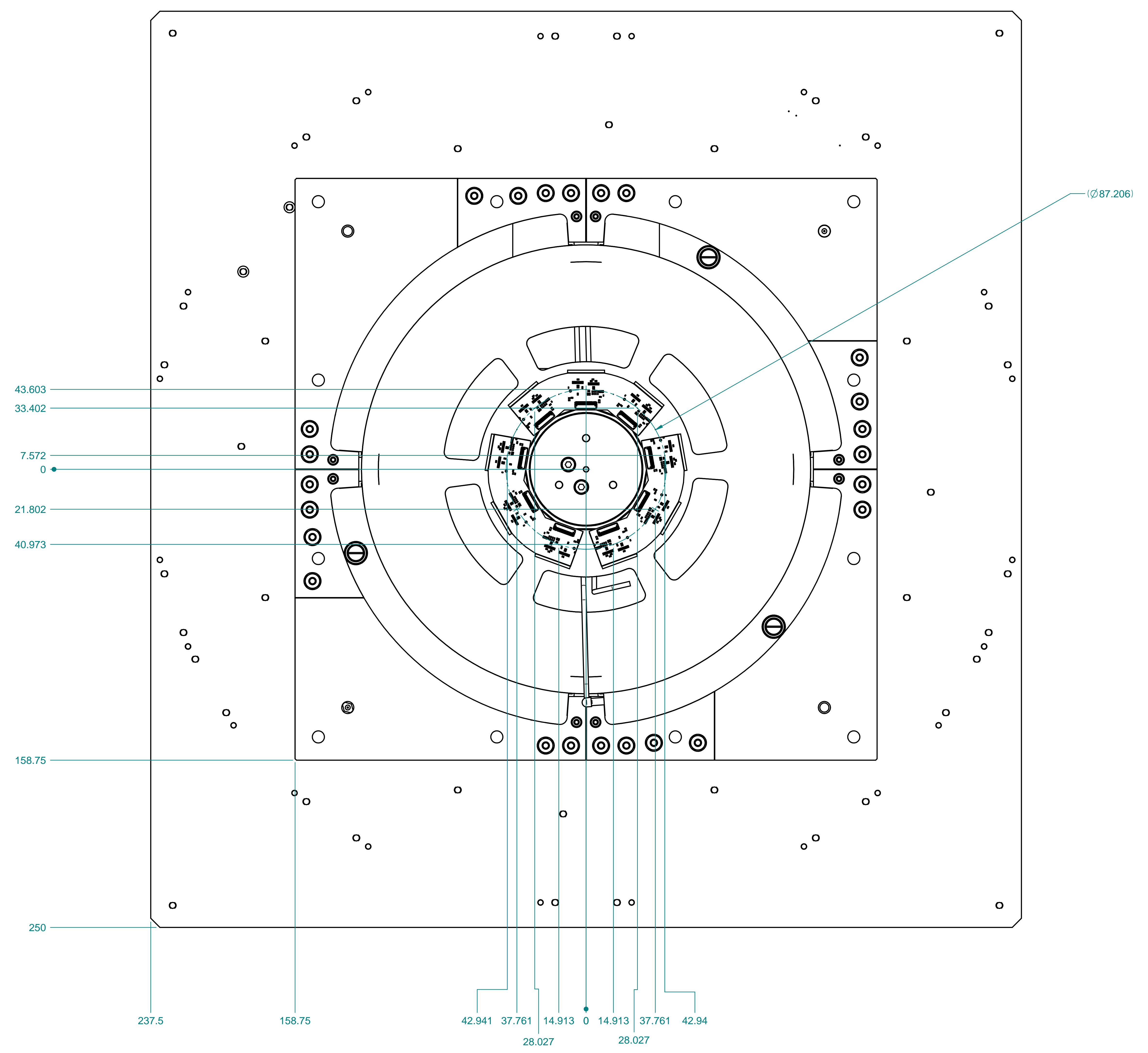
REF-000160474 A E

REV	DESCRIPTION	DWN	CHKR	APV	DATE
-----	-------------	-----	------	-----	------

TRIPLET FE CHIP COORDINATES

TUBES-UP SHOWN BELOW.
TUBES-DOWN COORDINATES ARE THE SAME.

TURN OVER HANDLING FRAME AND ROTATE 180° THEN LOAD TUBES-DOWN SIDE .

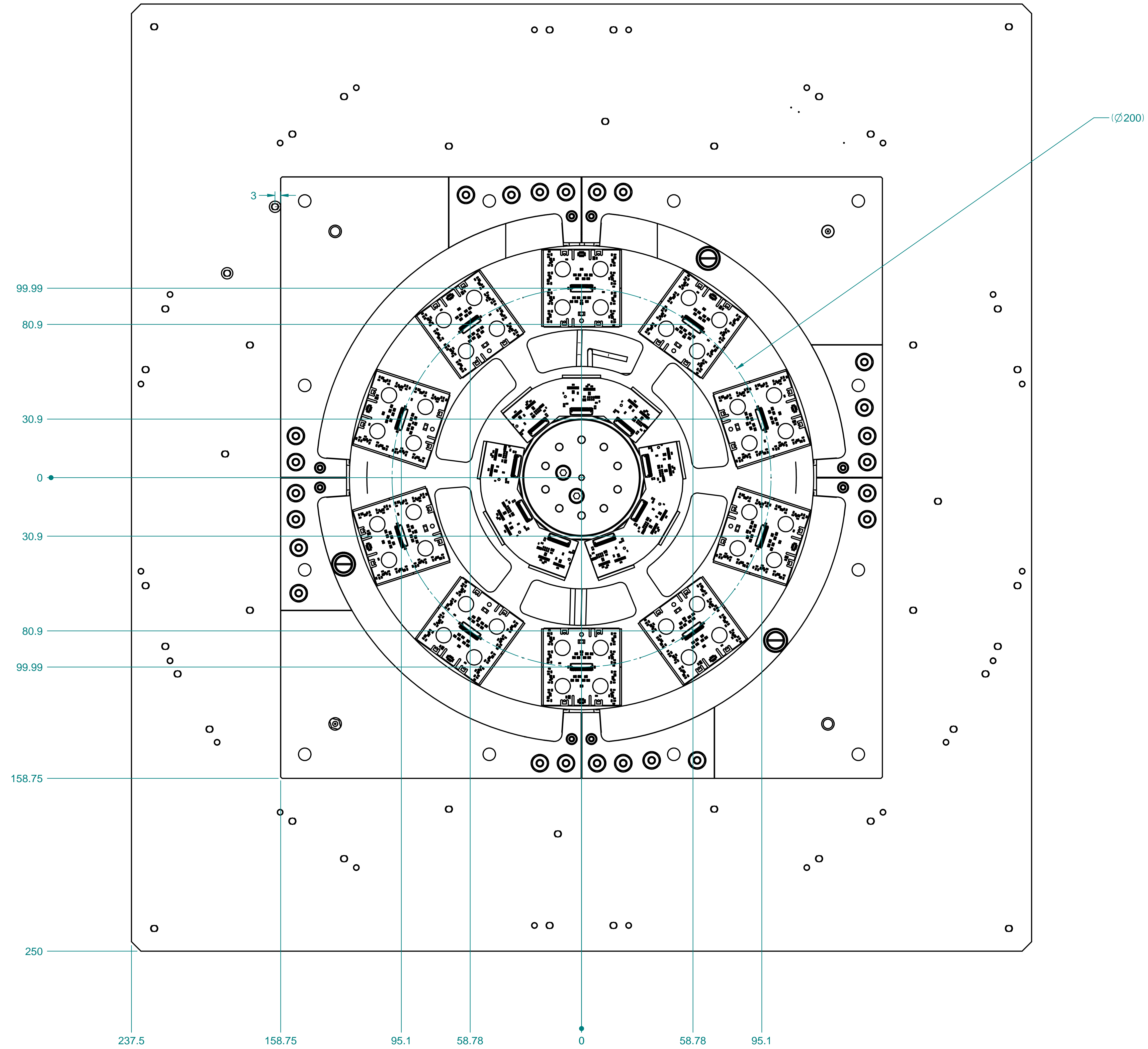


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02-22-2022 08:35:12 AM

---	DIMENSIONING AND TOLERANCING IS IAW ASME Y14.5-2009	SCALE: 1:2 DUPLICATE SCALE DRAWING	ESTIMATED MASS: 9.757 kg	DWG TYPE: ASSEMBLY
---	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS	SLAC ENERGY NATIONAL ACCELERATOR LABORATORY	ATLAS ITk 19-1 LOADING TOOLING LOADING FIXTURE, RING	
---	TOLERANCES: BREAK EDGES 0.13 - 0.4 INTERNAL CORNERS R 0.4 MAX	THE DRAWINGS, SPECIFICATIONS AND OTHER DATA HEREIN PROVIDED SHALL NOT BE COPIED, PUBLISHED OR OTHERWISE FURTHER DISSEMINATED WITHOUT PRIOR WRITTEN PERMISSION OF STANFORD UNIVERSITY/SLAC		
---	ANGLE $\pm 1^\circ$ ALL SURF ∇ 125	ENGR S. NEWBRY DWN S. NEWBRY CHKR ---	DATE 20211007	APPROVALS ---
---	NEXT ASSEMBLIES:	DRAWING NUMBER REF-000160474		REVISION NUMBER A E
---		CAD FILE NAME: REF-000160474.dft		

REF-000160474 A E

QUAD MODULE COORDINATES - TUBES DOWN

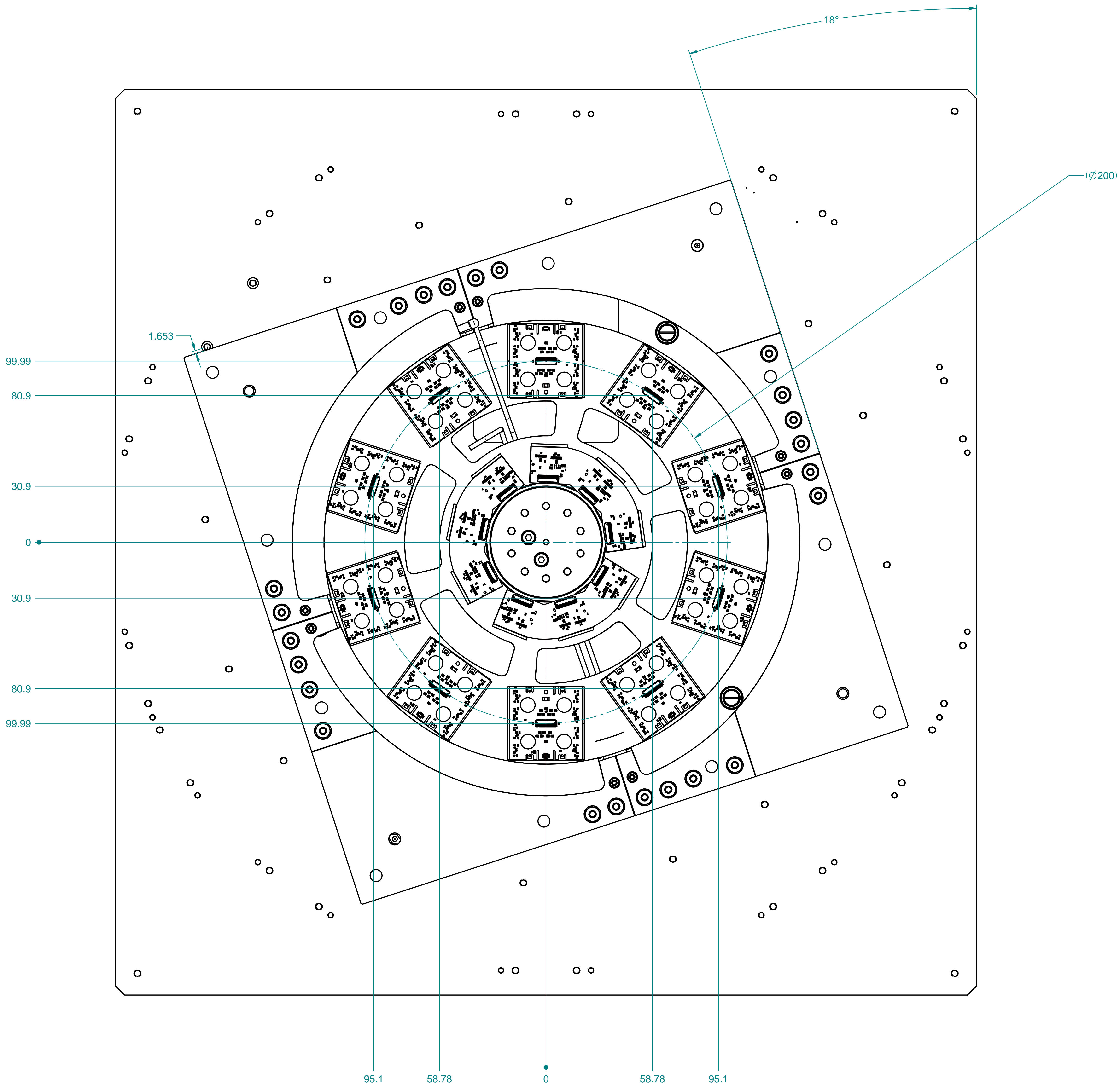


---	DIMENSIONING AND TOLERANCING IS IAW ASME Y14.5-2009	SCALE: 1:2 DUPLICATE SCALE DRAWING	ESTIMATED MASS: 9.757 kg	DWG TYPE: ASSEMBLY
---	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS	SLAC ENERGY	ATLAS ITk 19-1 LOADING TOOLING LOADING FIXTURE, RING	
---	TOLERANCES BREAK EDGES 0.13 - 0.4 INTERNAL CORNERS R 0.4 MAX	THE DRAWINGS, SPECIFICATIONS AND OTHER DATA HEREIN PROVIDED SHALL NOT BE COPIED, PUBLISHED OR OTHERWISE FURTHER DISSEMINATED WITHOUT PRIOR WRITTEN PERMISSION OF STANFORD UNIVERSITY/SLAC		
---	ANGLE $\pm 1^\circ$ ALL SURF $\nabla 125$	ENGR S. NEWBRY DWN S. NEWBRY CHKR ---	DATE 20220222	APPROVALS ---
---	NEXT ASSEMBLIES:	DRAWING NUMBER REF-000160474		REVISION NUMBER A
---		CAD FILE NAME: REF-000160474.dft		E

REF-000160474 A E

QUAD MODULE COORDINATES - TUBES UP

HANDLING FRAME ANGLE (18°) AS SHOWN



---	DIMENSIONING AND TOLERANCING IS IAW ASME Y14.5-2009	SCALE: 1:2 ISO 3013 SCALE DRAWING	ESTIMATED MASS: 9.757 kg	DWG TYPE: ASSEMBLY
---	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS	SLAC ENERGY	ATLAS ITk 19-1 LOADING TOOLING LOADING FIXTURE, RING	
---	TOLERANCES BREAK EDGES 0.13 - 0.4 INTERNAL CORNERS R 0.4 MAX	THE DRAWINGS, SPECIFICATIONS AND OTHER DATA HEREIN PROVIDED SHALL NOT BE COPIED, PUBLISHED OR OTHERWISE FURTHER DISSEMINATED WITHOUT PRIOR WRITTEN PERMISSION OF STANFORD UNIVERSITY/SLAC		
---	ANGLE ± 1° ALL SURF	125	ENGR S. NEWBRY DWN S. NEWBRY CHKR ---	APPROVALS ---
---	NEXT ASSEMBLIES:	DIMENSIONS GENERAL TOLERANCES	DATE 20220222	REVISION NUMBER A
---		<6 ±0.1 >6 ±0.2 >30 ±0.3 >120 ±0.5 >315 ±0.8 >1000 ±1.2 >2000 ±2		DRAWING NUMBER REF-000160474
---				REVISION NUMBER A