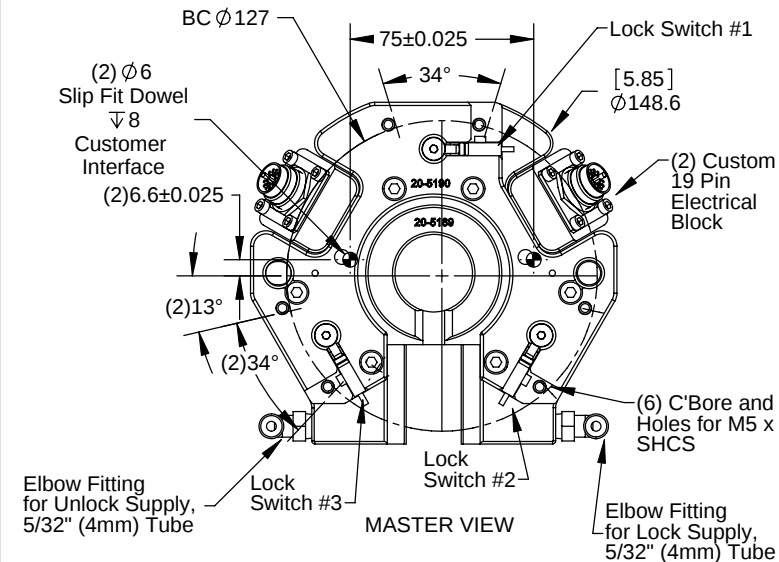
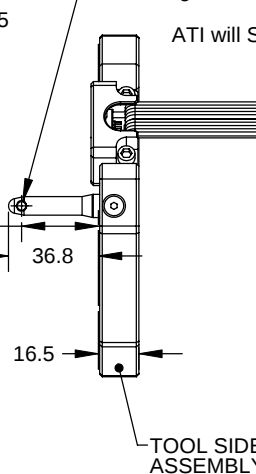
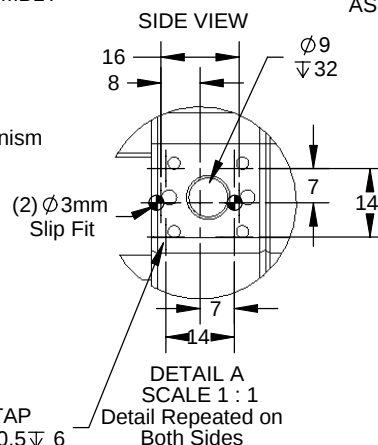
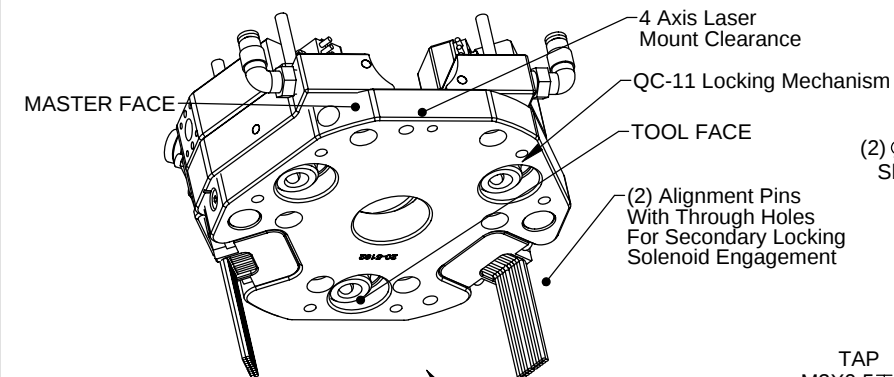
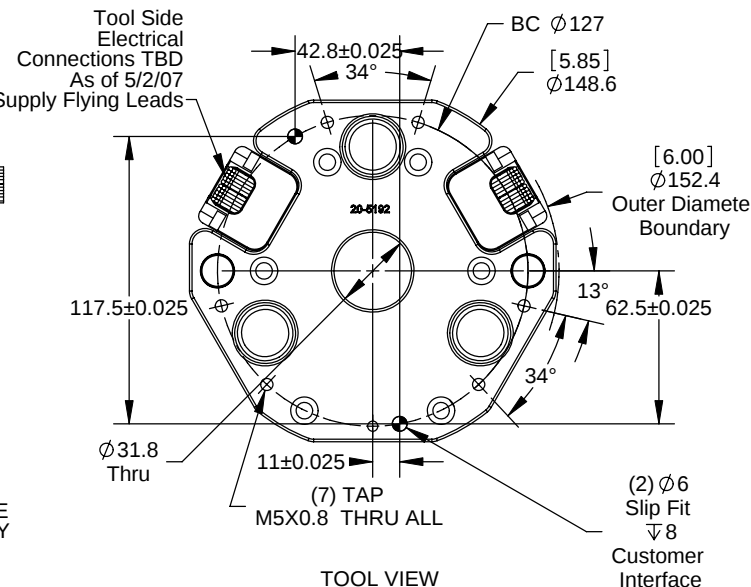


(2) Ø 3.627
3.373

For
Secondary
Locking Pin
ATI will Supply Flying Leads



Rev.	Description	Initiator	Date
10	Updated Notes, Elbow Fittings	DAN	9/9/08



Part Numbers Shown:
Master Side: 9120-033M-KL19-S5
Tool Side: 9120-033T-KL19

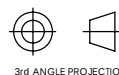
NOTES:

- Design is subject to change.
- Master utilizes three QC-11 locking mechanisms, all plumbed together to single lock and unlock air supplies.
- Master utilizes three microswitches to detect lock position of each piston.
- 2 additional microswitches are available to detect lock position of secondary locking solenoids.
- Tool Side Wire Bundles are shown with unterminated leads.
- Spacing around the mating geometry needs consideration for passing wire bundles, air lines and prox cables.
- Product Utilizes EPDM Seals.
- Product Utilizes Krytox GPL-205 Lubricant.
- The affect of Radiation on the product's expected lifewill be determined with customer BETA testing.

Probe
Well Bore
Ø9.525±.127mm
Through to
Center Bore

M3 Set Screw
Threaded Hole

NOTES: UNLESS OTHERWISE SPECIFIED
DO NOT SCALE DRAWING. DRAWN IN SOLIDWORKS.
ALL DIMENSIONS ARE IN MILLIMETERS.

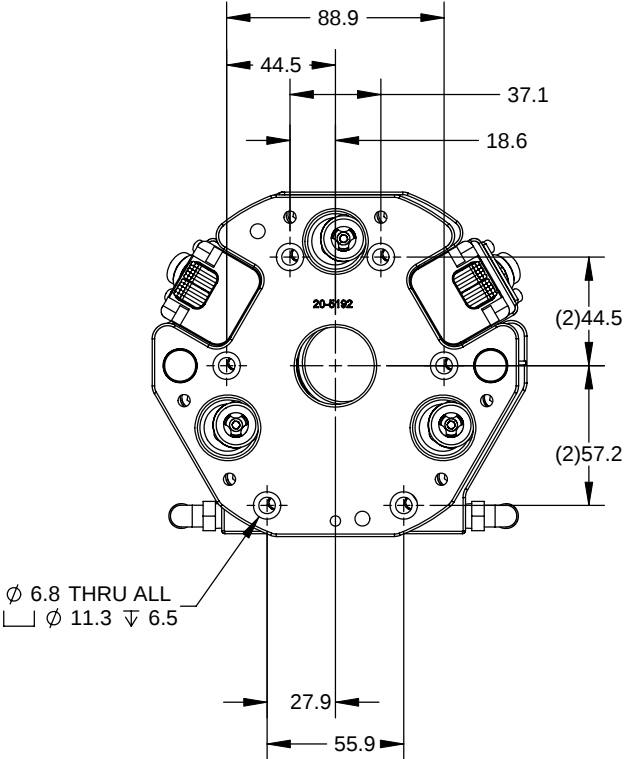


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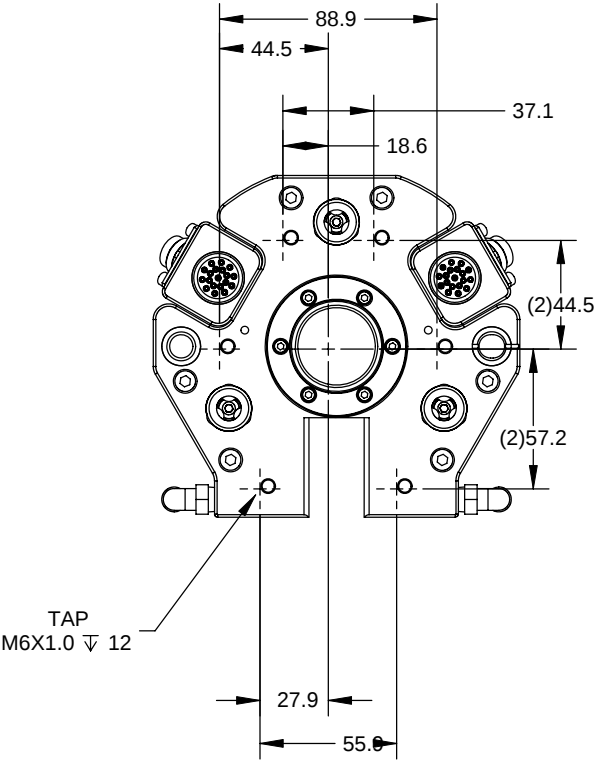
DRAWN BY: Dan Norton 3/27/07	TITLE	QC-033 Custom Tool Changer	
CHECKED BY: _____	SCALE	1:2	DRAWING NUMBER
WEIGHT LBS: _____	SIZE	B	9230-20-2567-10
ASSEMBLY REF: _____	PRODUCT RELEASE # 070306-1	DATE:	SHEET 1 OF 2

PROPERTY OF ATI INDUSTRIAL AUTOMATION, INC.
NOT TO BE REPRODUCED IN ANY MANNER EXCEPT ON
ORDER OR WITH PRIOR WRITTEN AUTHORIZATION OF ATI.

Rev.	Description	Initiator	Date
-	See Sheet1	-	-

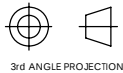


TOOL SIDE BOTTOM VIEW



MASTER SIDE BOTTOM VIEW

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3rd ANGLE PROJECTION



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ISO 9001 Registered Company

DRAWN BY: Dan Norton 3/27/07	TITLE QC-033 Custom Tool Changer		
CHECKED BY: _____	SCALE 1:2	SIZE B	DRAWING NUMBER 9230-20-2567-10
WEIGHT LBS: _____	PRODUCT RELEASE # 070306-1 DATE: _____ SHEET 2 OF 2		
ASSEMBLY REF: _____			