

COST AND PRICE DETAIL FOR Q03-00639
Major Tool and Machine, Inc.



Major
Tool & Machine, Inc.

SOW Reference

- 3.1 Manufacturing Development Activities
 - 3.1.1 Methods for Fabricating VVSA
 - 3.1.2 Design Changes
 - 3.1.3 Preliminary MIT/AQ for VVSA
 - 3.1.4 Budgetary Cost/Schedule for VVSA

1. Direct Material – Description	Quantity	Unit Cost	Units	Total Estimated Cost	Notes
None required	1	-	\$/assy	-	No material for these SOW elements
<i>TOTAL DIRECT MATERIAL</i>				-	

3. Direct Labor	Estimated Hours	Avg Rate	Estimated Cost	Notes
Engineering/Program Management	162	32.00	\$/hr 5,196	
(Total Direct Labor Hours)	162		-	
<i>TOTAL DIRECT LABOR</i>				5,196

4. Labor Overhead	Estimated Hours	Avg Rate	Estimated Cost	Notes
Engineering/Program Management	162	58.00	\$ per direct labor hour 9,417	
<i>TOTAL OVERHEAD</i>				9,417

5. Subcontract Costs			\$/unit	
<i>TOTAL SUBCONTRACT COSTS</i>				-

6. Travel	Airfare/Car	Food/Lodging	
<i>TOTAL TRAVEL</i>			-

<i>TOTAL COST</i>				14,612
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7. Fee				
	0.075			1,096
8. Facilities Capital Cost of Money.				0
Price =>				15,708

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SOW Reference

3.2.1 MIT/QA Plans for PVVS

1. Direct Material – Description	Quantity	Unit Cost	Units	Total Estimated Cost	Notes
None required	1	-	\$/assy	-	
<i>TOTAL DIRECT MATERIAL</i>				-	
2. Direct Labor	Estimated Hours	Avg Rate		Estimated Cost	
Engineering/Program Management	201	32.00	\$/hr	6,432	
(Total Direct Labor Hours)	201			-	
<i>TOTAL DIRECT LABOR</i>				6,432	
3. Labor Overhead	Estimated Hours	Avg Rate			
Engineering/Program Management	201	58.00	\$/hr	11,659	
<i>TOTAL OVERHEAD</i>				11,659	
4. Subcontract Costs					
			\$/unit	-	
<i>TOTAL SUBCONTRACT COSTS</i>				-	
5. Travel	Airfare/Car	Food/Lodging			
				-	
<i>TOTAL TRAVEL</i>				-	
<i>TOTAL COST</i>				18,091	
6. Fee	0.075			1,357	
7. Facilities Capital Cost of Money.				0	
Price =>				19,448	

COST AND PRICE DETAIL FOR Q03-00639
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SOW Reference

3.2.2 PVVS Manufacture (included in line item 3 of MTM's quote Q03-00639)
Fabrication of Fixturing

1. Direct Material - Description	Quantity	Unit Cost	Units	Total Estimated Cost	Notes
Tubing and plate	1	9,868	\$/assy	9,868	9,868
					0.075
					740.10
TOTAL DIRECT MATERIAL				9,868	Material w/fee 10,608.10
Estimated					
2. Direct Labor	Hours	Avg Rate		Estimated Cost	
Fabrication	178	20.00	\$/hr	3,564	
Machine Hours: 30' Mitsu	50	20.00		1,000	
Machine Hours: Small 5 axis	150	20.00		3,000	
CMM Inspection	55	22.00		1,210	
Deburr	10	15.00		150	
Burnout	7	20.00		140	
Saws	5	16.00		80	
Final Inspection	20	17.00		340	
(Total Direct Labor Hours)	475				
TOTAL DIRECT LABOR				9,484	
Estimated					
3. Labor Overhead	Hours	Avg Rate			
Fabrication	178	70.00	\$/hr	12,473	
Machine Hours: 30' Mitsu	50	100.00		5,000	
Machine Hours: Small 5 axis	150	80.00		12,000	
CMM Inspection	55	103.00		5,665	
Deburr	10	59.00		590	
Burnout	7	73.00		511	
Saws	5	59.00		295	
Final Inspection	20	63.00		1,260	
TOTAL OVERHEAD				37,794	
Estimated					
4. Subcontract Costs			\$/unit	-	
TOTAL SUBCONTRACT COSTS				-	
Estimated					
5. Travel	Airfare/Car	Food/Lodging		-	
TOTAL TRAVEL				-	
TOTAL COST				57,145	
6. Fee	0.075			4,286	
7. Facilities Capital Cost of Money.				0	
Price =>				61,431	



SOW Reference

3.2.2 PVVS Manufacture (Included in line item 1 of MTM's quote Q03-00639)
Fabrication of PVVS

1. Direct Material – Description	Quantity	Unit Cost	Units	Total Estimated Cost		Notes
Includes Inconel plate, tube, and sheet; weld wire; flanges; permeability gage	1	16,000	\$/assy	16,000	16,000	
					0.075	1,200.00
TOTAL DIRECT MATERIAL				16,000	Material w/fee	17,200.00

2. Direct Labor	Estimated Hours	Avg Rate		Estimated Cost
Fabrication	399	20.00	\$/hr	7,985
Machine Hours: Large 5axis	10	20.00		200
Engineering	321	32.00		10,272
CMM Inspection	15	22.00		330
Machine Hours: Small 5 axis	4	20.00		80
Pressing	60	20.00		1,200
Rolling/Shear	8	20.00		150
Inspection	20	17.00		340
Burnout	5	20.00		100
LPI	7	17.00		119
Deburr	21	15.00		315
Saws	1	16.00		16
Shipping	8	15.00		120
(Total Direct Labor Hours)	879			
TOTAL DIRECT LABOR				21,227

4. Labor Overhead	Estimated Hours	Avg Rate		Estimated Cost
Fabrication	399	70.00	\$/hr	27,948
Machine Hours: Large 5axis	10	228.0		2,280
Engineering	321	58.0		18,618
CMM Inspection	15	103.0		1,545
Machine Hours: Small 5 axis	4	80.00		320
Rolling/Shear	8	65.00		488
Inspection	20	63.00		1,260
Burnout	5	73.00		365
LPI	7	60.00		420
Deburr	21	59.00		1,239
Saws	1	59.00		
Shipping	8	60.00		480
TOTAL OVERHEAD				54,962

4. Subcontract Costs	Quantity	Unit Cost	Units	Estimated Cost	Notes
Vacuum Test	1	3500	\$/unit	3,500	vendor quote
Stress Relief	1	1800		1,800	cost history
Electropolish	1	0		-	
TOTAL SUBCONTRACT COSTS				5,300	

5. Travel	Airfare/Car	Food/Lodging	Estimated Cost
			-
TOTAL TRAVEL			-

TOTAL COST			97,489
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6. Fee	0.075		7,312
7. Facilities Capital Cost of Money.			0
Price =>			104,801



SOW Reference

3.2.2 PVVS Manufacture (In line item 2 of Major Tool's quote Q03-00639)

Fabrication of dies to form wall panels

(These costs could also be assigned to SOW 5.4 because the government will own this tooling)

1. Direct Material – Description	Quantity	Unit Cost	Units	Total Estimated Cost		Notes
Includes Kirksite dies and structural steel	1	130,000	\$/assy	130,000	130,000	Material to fabricate five (5) dies to form panels to shape
					0.075	9,750.00
TOTAL DIRECT MATERIAL				130,000	Material w/fee	139,750.00

2. Direct Labor	Estimated Hours	Avg Rate		Estimated Cost
Inspection	41	16.00	\$/hr	655
Machine Hours: Seramill	700	20.00		14,000
Deburr	35	15.00		525
Machine Hours: Press	250	22.00		5,500
Material Burnout	2	20.00		40
Engineering/Programming	180	32.00		5,760
(Total Direct Labor Hours)	1208			
TOTAL DIRECT LABOR				26,480

3. Labor Overhead	Estimated Hours	Avg Rate		Estimated Cost
Inspection	41	64.00	\$/hr	2,620
Machine Hours: Seramill	700	75.00		52,500
Deburr	35	60.00		2,100
Machine Hours: Press	250	68.00		17,000
Material Burnout	2	79.00		158
Engineering/Programming	180	58.00		10,440
TOTAL OVERHEAD				84,818

4. Subcontract Costs		\$/unit	-
TOTAL SUBCONTRACT COSTS			-

5. Travel	Airfare/Car Food/Lodging	-
TOTAL TRAVEL		-

TOTAL COST		241,298
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6. Fee	0.075	18,097
7. Facilities Capital Cost of Money.		0

Price => 259,396

COST AND PRICE DETAIL FOR Q03-00639
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SOW Reference

3.3 Final Proposal

3.3.1 Final MIT/QA for VVSA

3.3.2 Final Cost/Schedule for VVSA

1. Direct Material – Description	Quantity	Unit Cost	Units	Total Estimated Cost	Notes
None required	1	-	\$/assy	-	
TOTAL DIRECT MATERIAL				-	

2. Direct Labor	Estimated Hours	Avg Rate	Estimated Cost
Engineering	77	32.00 \$/hr	2,474
			-
			-
(Total Direct Labor Hours)	77		
TOTAL DIRECT LABOR			2,474

4. Labor Overhead	Estimated Hours	Avg Rate	Estimated Cost
Engineering	77	58.00 \$/hr	4,484
			-
			-
TOTAL OVERHEAD			4,484

5. Subcontract Costs		\$/unit	-
			-
			-
TOTAL SUBCONTRACT COSTS			-

6. Travel	Airfare/Car Food/Lodging		-
			-
TOTAL TRAVEL			-

TOTAL COST			6,958
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7. Fee	0.075		522
		Price =>	7,480

COST AND PRICE DETAIL FOR Q03-00639
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SOW Reference

- 5.0 Deliverables
 - 5.1 Weekly Reports
 - 5.2 Monthly Earned Value Reports
 - 5.3 Technical Reports
 - 5.4 PVVS

1. Direct Material – Description	Quantity	Unit Cost	Units	Total Estimated Cost	Notes
None required	1	-	\$/assy	-	
<i>TOTAL DIRECT MATERIAL</i>				-	

2. Direct Labor	Estimated Hours	Avg Rate	Estimated Cost
Engineering	54	32.00 \$/hr	1,732
(Total Direct Labor Hours)	54		-
<i>TOTAL DIRECT LABOR</i>			1,732

3. Labor Overhead	Estimated Hours	Avg Rate	Estimated Cost
Engineering	54	58.00 \$/hr	3,139
<i>TOTAL OVERHEAD</i>			3,139

4. Subcontract Costs		\$/unit	-
<i>TOTAL SUBCONTRACT COSTS</i>			-

5. Travel	Airfare/Car	Food/Lodging	
<i>TOTAL TRAVEL</i>			-

<i>TOTAL COST</i>			4,871
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6. Fee	0.075	365
7. Facilities Capital Cost of Money.		0
Price =>		5,236