

Robotic Gel Dispensing System

DR-85938

---Mark Smith---

Log: Machined & Fabricated Parts

P/N	Description	ETA of Design	Design Finished	Vendor	Cost Each	Qty	PO Request to Masimo	PO #	ETA	Rcv'd
85866	Vacuum Fixture, Sensor	-	✓	Roman	980.00	2	4/14/15	616497	5/19/15	5/26/15 ✓
85867	Base Plate, Robot	-	✓	Roman	2,800	1	4/14/15	616497	5/19/15	5/26/15 ✓
85868	Valve Caddy	-	✓	Hilltop	1,751.98	1	5/12/15	617696	5/22/15	5/26/15 ✓
85942	Mount, Manifold	-	✓	Hilltop	1,025.38	1	5/12/15	617696	5/22/15	5/26/15 ✓
85941	Base, Manifold		✓	B. Precise	240	1	5/28/15	618350	6/4/15	6/3/15 ✓
85943	Mount, Hardware		✓	Roman	560	1	6/1/15	618561	6/8/15	6/5/15 ✓
85866	Vacuum Fixture, Sensor	-	✓	Roman	1,580	1	5/29/15	618472	6/10/15	

Log: Procured OEM Items

P/N	Description	Cost Each	Qty	Vendor	PO Request Submitted to Masimo	PO #	ETA	Rcv'd
Equipment								
7022004	Controller Valvemate 8000 Dispense Valve	1366.28	2	JA Crawford	3/11/15	615356	3/25/15	3/30/15✓
7021014	725DA with SS Fluid Chamber (Valve)	1302.17	6	JA Crawford	3/11/15	615356	3/25/15	3/30/15✓
7022249	Solenoid Valve Kit, Quad	1166.86	2	JA Crawford	3/11/15	615356	3/25/15	3/30/15✓
7018272	Tip 22GA .016 x .5 Blue (50 pcs/box)	23.36	1	JA Crawford	3/11/15	615356	3/25/15	3/30/15✓
7017976	Tip Cap U OR 50 (50 pcs/box)	10.25	1	JA Crawford	3/11/15	615356	3/25/15	3/30/15✓
SV2-VCU	Vacuum Chuck Control Unit	475.00	3	Pierson Workholding	3/11/15	615451	3/18/15	✓
SV2-Connection	Connection Kit	65.00	3	Pierson Workholding	3/11/15	615451	3/18/15	✓
236149	Tank, High Pressure 5 Gallon	1685.00	2	Empire Foam (Graco)	3/11/15	615449	4/3/15	3/24/15✓
F4500N.1	Robot, Desktop: 500 x 500 mm 3 axes	12,909.64	1	Fisnar	3/11/15	615344	4/12/15	3/24/15✓
DM10N41-CB	Membrane Dryer	796.50	1	Webster Associates	5/6/15	617481	5/22/15	5/27/15✓
HN2L-10CW	Pre-Coalescer	233.19	1	Webster Associates	5/6/15	617481	5/22/15	5/27/15✓
HN2L-6CW	Coalescer	233.19	1	Webster Associates	5/6/15	617481	5/22/15	5/27/15✓
5447T2	Air Regulator	34.37	1	McMaster	5/6/15	617474	5/8/13	✓
5447T11	Air Regulator Mounting Bracket	5.73	1	McMaster	5/6/15	617474	5/8/13	✓
4003K11	Air Pressure Gauge: 0-100 psi , ¼ NPT	22.99	1	McMaster	5/6/15	617474	5/8/13	✓
6015T12	Workbench 60" x 30", SS, no bottom shelf	748.36	1	McMaster	5/6/15	617474	5/8/13	✓
7012904	Footpedal Adapter	104.99	1	J.A. Crawford	5/12/15	617693	5/27/15	5/27/15✓
Hardware:								
7925K12	Computer Cord 6' DB9 Male x DB9 Female	23.02	1	McMaster	6/8/15	618777	6/9/15	6/9/15✓
7925K22	Computer Cord 10' DB9 Male x DB9 Female	26.04	1	McMaster	6/8/15	618777	6/9/15	6/9/15✓
4974T27	USB Computer Cord 10' Male x Female	7.15	1	McMaster	6/8/15	618777	6/9/15	6/9/15✓
3995T439	5 Gallon Shipping Pail	13.40	2	McMaster	6/5/15	618729	6/8/15	6/8/15✓
3995T459	Snap-Lock Lid	5.19	2	McMaster	6/5/15	618729	6/8/15	6/8/15✓
51025K374	90° Elbow Push To Connect Tube Fitting	4.24	24	McMaster	6/4/15	618676	6/5/15	6/5/15 ✓
2894A58	¾" Drill Bit for Wood	3.33	1	McMaster	6/4/15	618676	6/5/15	6/5/15 ✓
2894A58	1" Drill Bit for Wood	3.78	1	McMaster	6/4/15	618676	6/5/15	6/5/15 ✓
2894A61	1.5" Drill Bit for Wood	5.59	1	McMaster	6/4/15	618676	6/5/15	6/5/15 ✓
7565K52	Mountable Cable Ties (Package)	9.82	4	McMaster	6/4/15	618676	6/5/15	Back order
7130K21	Zip Cable Ties, White (Package)	6.32	5	McMaster	6/4/15	618676	6/5/15	6/5/15 ✓
4464K563	3/8 NPT Plug	1.87	24	McMaster	6/4/15	618676	6/5/15	6/5/15 ✓
9574T21	Extension Cord, 3 Outlet	40.71	1	McMaster	5/18/15	617897		✓
48805K192	Tee, 1/8-27 NPT	32.92	3	McMaster	5/18/15	617897		✓
55779K108	Straight Adapter	3.08	8	McMaster	5/6/15	617411		✓
5779K109	Push To Connect Tube Fitting	3.08	3	McMaster	5/6/15	617411		✓

P/N	Description	Cost Each	Qty	Vendor	PO Request Submitted to Masimo	PO #	ETA	Rev'd
50315K68	Ø 4mm Tubing: 50 ft.	10.50	1	McMaster	5/6/15	617411		✓
50315K69	Ø 6mm Tubing: 50 ft.	18.00	1	McMaster	5/6/15	617411		✓
5225K712	Straight Adapter	4.25	3	McMaster	5/6/15	617411		✓
5779K108	Straight Adapter	3.08	12	McMaster	5/6/15	617411		✓
7880T218	Push To Connect Elbow	7.83	2	McMaster	5/6/15	617411		✓
4040T62	3/8 NPT Ball Valve	49.81	1	McMaster	5/6/15	617411		✓
51205K135	3/8 NPT Hex Nipple	9.77	2	McMaster	5/6/15	617411		✓
5779K131	Straight Adapter	5.67	6	McMaster	5/6/15	617411		✓
51915K37	Ø ¼" Push to Connect Plugs	.73	24	McMaster	5/6/15	617411		✓
4429K413	Hex Reducing Bushing	3.06	6	McMaster	5/6/15	617411		✓
7880T126	Push To Connect Straight Adapter, Brass	3.11	6	McMaster	5/6/15	617411		✓
5108K45	Ø ¼" Clear Polyurethane Tubing: 50 feet	21.05	1	McMaster	5/6/15	617411		✓
4785K22	6 Port Manifold	75.03	2	McMaster	5/6/15	617411		✓
5485K23	3/8 NPT Brass Hex Nipple	3.28	12	McMaster	5/6/15	617411		✓
4464K35	1/8 Street Elbow, 304 SS (McMaster)	6.94	12	McMaster	5/6/15	617411		✓
50785K112	1/8-27 NPT Brass Plug (McMaster)	.77	60	McMaster	5/6/15	617411		✓
5577K207	O-Ring, Viton (McMaster)	10.97	4 box	McMaster	5/6/15	617411		✓
9540K46	Foot, Rubber (McMaster)	10.16	2 box	McMaster	5/6/15	617411		✓
92196A236	6-32 x 1.375 SHCS (McMaster)	10.99	1 box	McMaster	5/6/15	617411		✓
92196A167	6-32 x 1.500 SHCS (McMaster)	7.83	2 box	McMaster	5/6/15	617411		✓
92196A168	6-32 x 1.750 SHCS (McMaster)	5.36	4 box	McMaster	5/6/15	617411		✓
92185A192	8-32 x .375 SHCS (McMaster)	3.09	4 box	McMaster	5/6/15	617411		✓
92185A194	8-32 x .500 SHCS (McMaster)	3.23	4 box	McMaster	5/6/15	617411		✓
92185A197	8-32 x .750 SHCS (McMaster)	4.00	4 box	McMaster	5/6/15	617411		✓
92185A199	8-32 x 1.000 SHCS (McMaster)	4.73	4 box	McMaster	5/6/15	617411		✓
92196A240	10-24 x .375 SHCS (McMaster)	8.15	1 box	McMaster	5/6/15	617411		✓
92196A242	10-24 x .500 SHCS (McMaster)	9.20	1 box	McMaster	5/6/15	617411		✓
91251A245	10-24 x .750 SHCS (McMaster)	11.04	1 box	McMaster	5/6/15	617411		✓
92185A247	10-24 x 1.000 SHCS (McMaster)	5.68	4	McMaster	5/6/15	617411		✓
90128A242	¼-20 x .500 SHCS (McMaster)	10.07	2 box	McMaster	5/6/15	617411		✓
90128A245	¼-20 x .750 SHCS (McMaster)	11.85	2 box	McMaster	5/6/15	617411		✓
90128A247	¼-20 x 1.000 SHCS (McMaster)	6.54	4 box	McMaster	5/6/15	617411		✓
92290A771	M4-0.7 x 22 SHCS (McMaster)	5.97	1 box	McMaster	5/6/15	617411		✓
91950A045	#6 SAE Washer (McMaster)	10.00	1 box	McMaster	5/6/15	617411		✓
91950A046	#8 SAE Washer (McMaster)	10.40	1 box	McMaster	5/6/15	617411		✓
90126A514	#10 SAE Washer (McMaster)	2.04	1 box	McMaster	5/6/15	617411		✓
90108A413	¼ SAE Washer (McMaster)	3.30	1 box	McMaster	5/6/15	617411		✓

P/N	Description	Cost Each	Qty	Vendor	PO Request Submitted to Masimo	PO #	ETA	Rev'd
	Tools & Tooling & Misc:							
29415A24	Ø 9/16 Drill with ½ Shank	21.82	1	McMaster	5/6/15	617672	5/13/15	✓
29415A28	Ø 5/8 Drill with ½ Shank	24.52	1	McMaster	5/6/15	617672	5/13/15	✓
29415A37	Ø ¾ Drill with ½ Shank	29.96	1	McMaster	5/6/15	617672	5/13/15	✓
90126A005	#4 Washer	13.91	1 Box	McMaster	5/6/15	617672	5/13/15	✓
90126A033	½" Washer	4.20	2 Box	McMaster	5/6/15	617672	5/13/15	✓
90480A005	4-40 Nut	.81	1 Box	McMaster	5/6/15	617672	5/13/15	✓
90480A007	6-32 Nut	1.16	1 Box	McMaster	5/6/15	617672	5/13/15	✓
90480A009	8-32 Nut	1.49	1 Box	McMaster	5/6/15	617672	5/13/15	✓
90480A011	10-24 Nut	1.72	1 Box	McMaster	5/6/15	617672	5/13/15	✓
8305A519	4mm Tap Set	18.01	1	McMaster	5/25/15	618242	5/26/15	✓
95462A029	¼-20 Nut	4.40	1 Box	McMaster	5/6/15	617672	5/13/15	✓
95462A031	3/8-16 Nut	7.84	1 Box	McMaster	5/6/15	617672	5/13/15	✓
95462A033	½-13 Nut	13.77	1 Box	McMaster	5/6/15	617672	5/13/15	✓
1556A46	Bracket	4.67	8	McMaster	5/6/15	617672	5/13/15	✓
42185T184	Stackable Yellow Plastic Bin Box	1.25	60	McMaster	5/6/15	617672	5/13/15	✓
4666T59	Steel Bench Top Bin Box Storage	67.15	2	McMaster	5/6/15	617672	5/13/15	✓
29585A7	Drill Index, 115 Piece HSS	296.32	1	McMaster	5/6/15	617672	5/13/15	✓
2522A715	Tap, 4-40	6.13	6	McMaster	5/6/15	617672	5/13/15	✓
2522A717	Tap, 6-32	4.65	6	McMaster	5/6/15	617672	5/13/15	✓
2522A718	Tap, 8-32	4.83	6	McMaster	5/6/15	617672	5/13/15	✓
2522A719	Tap, 10-24	4.96	6	McMaster	5/6/15	617672	5/13/15	✓
2521A621	Tap, ¼-20	5.35	6	McMaster	5/6/15	617672	5/13/15	✓
2008K13	Tapmatic Tapping Fluid, 16oz, One Can	14.34	1	McMaster	5/6/15	617672	5/13/15	✓
28135A82	Hand Drill, Ø1/2" Chuck Dewalt 0-1200 RPM	135.18	1	McMaster	5/6/15	617672	5/13/15	✓
3013A114	Countersink, 3 Flute 90°	16.92	2	McMaster	5/6/15	617672	5/13/15	✓
2915A11	#1 Centerdrill (Drill-Point Countersink)	5.28	2	McMaster	5/6/15	617672	5/13/15	✓
2915A32	#1 Long Centerdrill (Drill-Point Countersink)	12.05	2	McMaster	5/6/15	617672	5/13/15	✓
2915A12	#2 Centerdrill (Drill-Point Countersink)	5.28	2	McMaster	5/6/15	617672	5/13/15	✓
2915A34	#2 Long Centerdrill (Drill-Point Countersink)	13.40	2	McMaster	5/6/15	617672	5/13/15	✓
2915A13	#3 Centerdrill (Drill-Point Countersink)	5.34	2	McMaster	5/6/15	617672	5/13/15	✓
2915A37	#3 Long Centerdrill (Drill-Point Countersink)	14.15	2	McMaster	5/6/15	617672	5/13/15	✓
34155A41	Centerpunch Set	38.00	1	McMaster	5/6/15	617672	5/13/15	✓
6808A14	Scriber	4.12	1	McMaster	5/6/15	617672	5/13/15	✓
2131A62	Layout Fluid (Dykem), Red, 8 oz	9.93	1	McMaster	5/6/15	617672	5/13/15	✓
19215A79	Layout Fluid Remover, 1 qt. can	11.47	1	McMaster	5/6/15	617672	5/13/15	✓

Log: Assembly

P/N	Description								
DR-85938A	Gel Dispensing System, Robotic								

Log: Testing

P/N	Description								

Log: Documentation

Item	Item #	Description	ETA of Completion	Completed	Submitted to Agile	Accepted Into Agile
DEO Document of External Origin	6276A	Fisnar: F4000N.1 Series Robot Operating Manual	-	✓	4/9/15	✓
AV Approved Vendor	18885A	<ul style="list-style-type: none"> Fisnar Documentation 	-	✓	4/9/15	✓
PS Purchase Spec	18885A	<ul style="list-style-type: none"> Fisnar Documentation 	-	✓	4/9/15	✓
DEO Document of External Origin	6293A	Graco: 5 Gallon High Pressure Tank #236149 <ul style="list-style-type: none"> Pressure Tank Instructions-Parts List Low Volume Air Regulator Low Pressure Ball Valve 				
AV Approved Vendor	TBD	<ul style="list-style-type: none"> Graco Documentation 				
PS Purchase Spec	TBD	<ul style="list-style-type: none"> Graco Documentation 				
DEO Document of External Origin	6293A	Nordson EFD: <ul style="list-style-type: none"> ValveMate 8000 Controller Operating Manual 725 D Series Piston Valve Operating Manual 				
AV Approved Vendor	TBD	<ul style="list-style-type: none"> Nordson Documentation 				
PS Purchase Spec	TBD	<ul style="list-style-type: none"> Nordson Documentation 				
DR: Drawing	85866	Vacuum Fixture, Sensor	-	✓		

Item	Item #	Description	ETA of Completion	Completed	Submitted to Agile	Accepted Into Agile
DR: Drawing	85867	Base Plate, Robot	-	✓		
DR: Drawing	85868	Valve Caddy	4/28/15 ✓			
DR: Drawing	85940	Mount, Filter and Hardware	TBD			
DR: Drawing	85941	Manifold, Gel	5/1/15 ✓			
EQ Equipment Qualification	TBD	Fisnar F4000N.1 Series Robot				
EQ Equipment Qualification	TBD	Nordson EFD ValveMate 8000 Controller				
EQ Equipment Qualification	TBD	Nordson EFD 725 D Series Piston Valve				
EQ Equipment Qualification	TBD	Graco 5 Gallon High Pressure Tank #236149				
MP Maintenance Procedure	TBD	Fisnar F4000N.1 Series Robot				
	TBD	Nordson EFD ValveMate 8000 Control				
	TBD	Nordson EFD 725 D Series Piston Valve				
	TBD	Graco 5 Gallon High Pressure Tank #236149				
TR Test Report	TBD	Fisnar F4000N.1 Series Robot				
	TBD	Nordson EFD ValveMate 8000 Control				
	TBD	Nordson EFD 725 D Series Piston Valve				
	TBD	Graco 5 Gallon High Pressure Tank #236149				
TP Test Procedure	TBD	Fisnar F4000N.1 Series Robot				
	TBD	Nordson EFD ValveMate 8000 Control				
	TBD	Nordson EFD 725 D Series Piston Valve				
	TBD	Graco 5 Gallon High Pressure Tank #236149				
PV Process Validation	TBD	Fisnar F4000N.1 Series Robot				
CP Calibration Procedure	TBD	<ul style="list-style-type: none"> Fisnar F4000N.1 Series Robot 				
IQ Installation & Qualification	TBD	<ul style="list-style-type: none"> Fisnar F4000N.1 Series Robot 				

Item	Item #	Description	ETA of Completion	Completed	Submitted to Agile	Accepted Into Agile
OQ Operational Qualification	TBD	<ul style="list-style-type: none"> Fisnar F4000N.1 Series Robot 				
PV Process Validation	TBD	Nordson EFD ValveMate 8000 Control				
CP Calibration Procedure	TBD	<ul style="list-style-type: none"> Nordson EFD ValveMate 8000 Control 				
IQ Installation & Qualification	TBD	<ul style="list-style-type: none"> Nordson EFD ValveMate 8000 Control 				
OQ Operational Qualification	TBD	<ul style="list-style-type: none"> Nordson EFD ValveMate 8000 Control 				
PV Process Validation	TBD	Nordson EFD 725 D Series Piston Valve				
CP Calibration Procedure	TBD	<ul style="list-style-type: none"> Nordson EFD 725 D Series Piston Valve 				
IQ Installation & Qualification	TBD	<ul style="list-style-type: none"> Nordson EFD 725 D Series Piston Valve 				
OQ Operational Qualification	TBD	<ul style="list-style-type: none"> Nordson EFD 725 D Series Piston Valve 				
PV Process Validation	TBD	Graco 5 Gallon High Pressure Tank #236149				
CP Calibration Procedure	TBD	<ul style="list-style-type: none"> Graco 5 Gallon High Pressure Tank #236149 				
IQ Installation & Qualification	TBD	<ul style="list-style-type: none"> Graco 5 Gallon High Pressure Tank #236149ot 				
OQ Operational Qualification	TBD	<ul style="list-style-type: none"> Graco 5 Gallon High Pressure Tank #236149 				
Total Unfinished Documents:	43					