

Configured Manufacturing Systems: Cultured Marble Manufacturing - Level 3

The “LEVEL 3” Cultured Marble Manufacturing System has been designed according to these assumptions:

1. Production of **Cultured Marble, Cultured Granite and Cultured Onyx**
2. Production capacity per 8 hour shift of **8000 kg (approx. 17,636 lb)**

Three separate Cultured Marble/Onyx/Granite plant configurations are provided in this General Proposal, each assuming different capacity requirements:

Level 1 - Production capacity per 8 hour shift of **1000 kg** (approx. 2,200 lb)

Level 2 - Production capacity per 8 hour shift of **3000 kg** (approx. 6,613 lb)

Level 3 - Production capacity per 8 hour shift of **8000 kg** (approx. 17,636 lb)

Note: Each of these plants can be modified or customized, or a completely customized plant can be designed for your needs. Contact your Globmarble sales representative to assist you with customization options.

A facility of this size requires approximately the following resources:

Manufacturing Area Required*	~ 1000 m ² as shown / ~2500 m ² with storage
Electrical Consumption	~ 300 -350 Amps
Compressed Air Requirement	~ 250 – 300 CFPM (~425 - 510 m ³ /h)
Manpower Requirement	35 persons
Shipping Volume	152 cm x 12.2 m (5' x 40') container
Estimated Factory Ship Schedule	16-20 weeks

* The “as shown” number is the space requirements for what is shown on the drawings, but do NOT include space for Raw Materials Storage, Finished product movement (Finishing), or Finished Product Storage. Refer to the “with storage” number for estimated total space requirements including storage areas.

Customer Services

The following services are likely required, but may vary according to the scope of the project.

For the purposes of developing a budgetary estimate, assume the following fees are likely. The actual amount (if applicable) will be identified in the final design proposal.

- 1) Plant Design/Layout Services - To be determined and quoted in proposal.
- 2) Installation Supervision Services - To be determined and quoted in proposal.
- 3) On-Site Production Consultation - To be determined at a later date (if applicable).

Cost (as configured) - excluding Customer Service fees if applicable.

Equipment: \$343,751.49 USD

Molds: \$146,705.41 USD

Supplies: \$64,351.36 USD

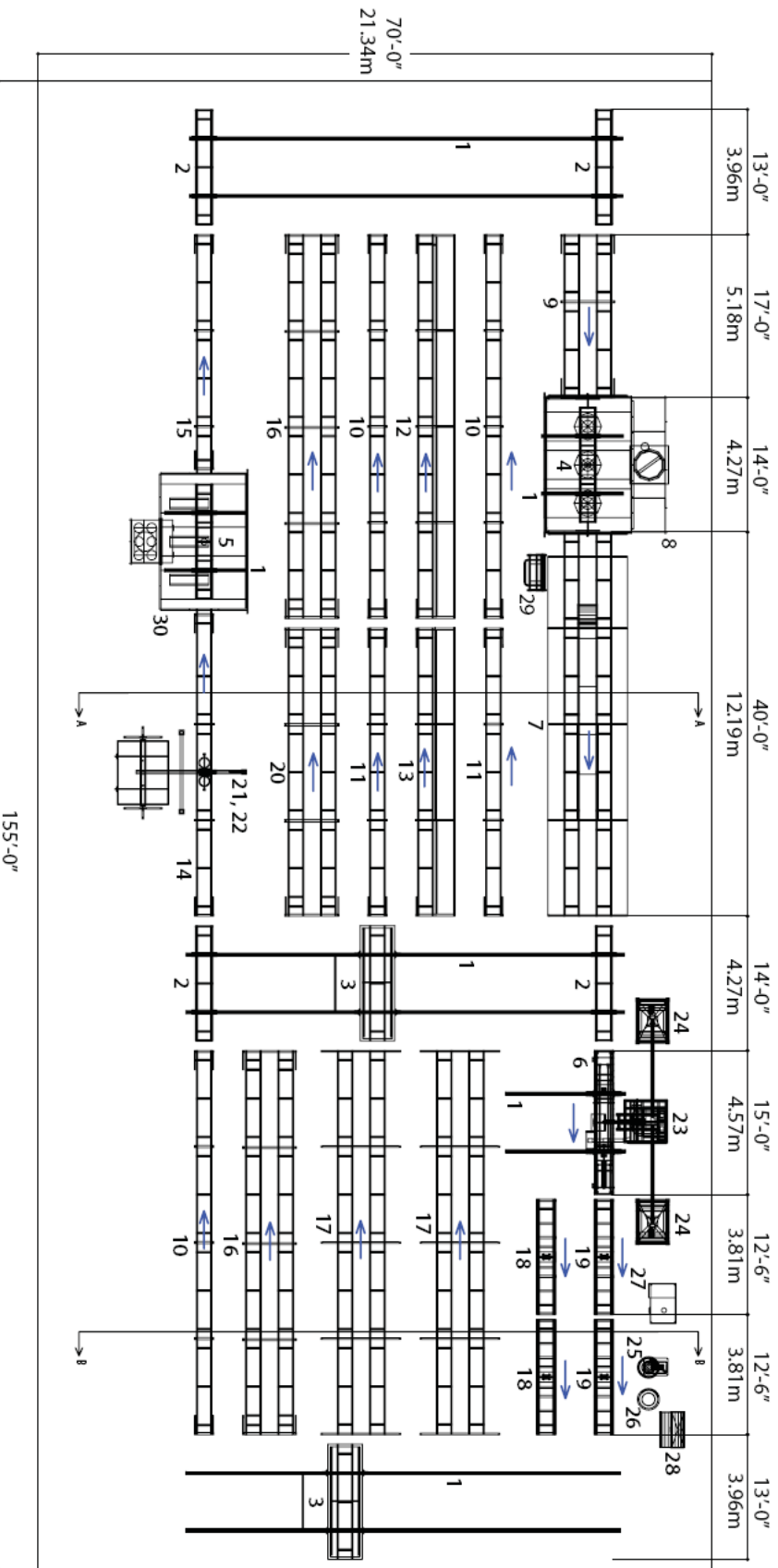
Total Ex factory: \$554,808.26 USD*

* Excludes possible services identified in the Customer Services section above.

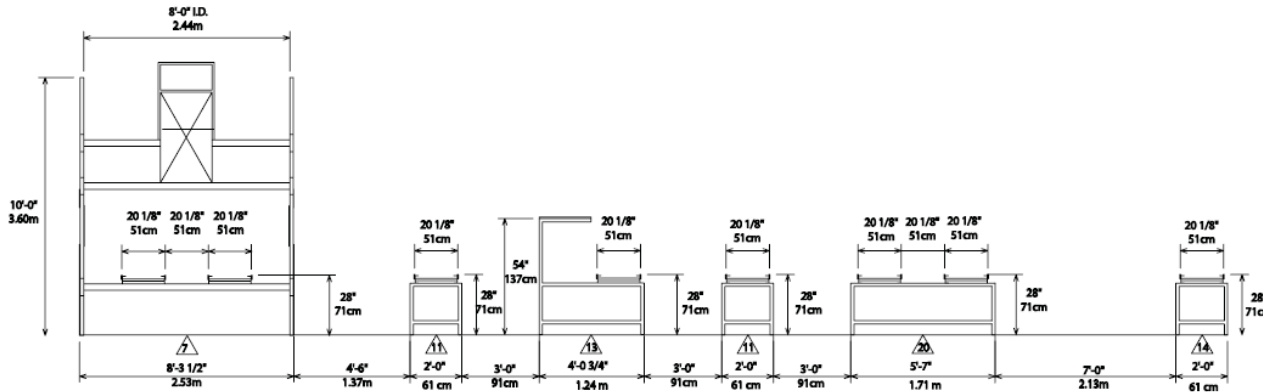
Configured Manufacturing Systems: Cultured Marble Manufacturing - Level 3

(continued)

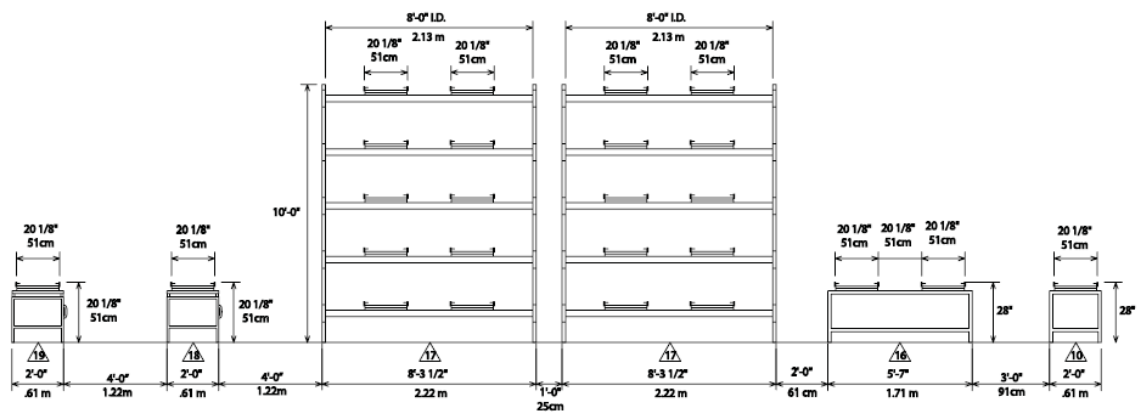
Note: Plan drawings does NOT provide any space for 1) Raw Materials Storage, 2) Finished product movement (Finishing), or 3) Finished Product Storage.



Configured Manufacturing Systems: Cultured Marble Manufacturing - Level 3



ELEVATION VIEW A-A

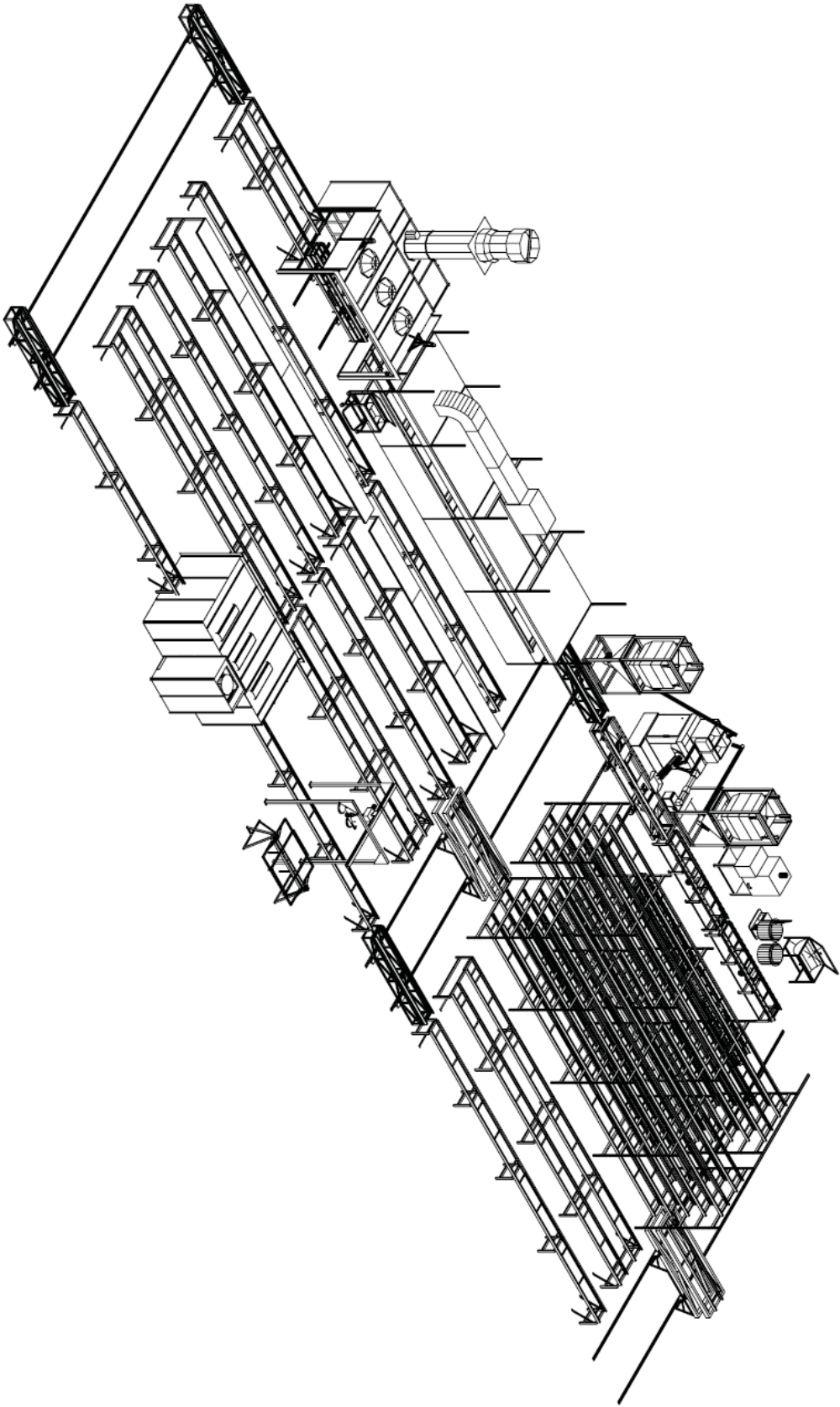


ELEVATION VIEW B-B

Note: Plan drawings do NOT provide any space for

- 1) Raw Materials Storage,
- 2) Finished product movement (Finishing), or
- 3) Finished Product Storage.

Configured Manufacturing Systems: Cultured Marble Manufacturing - Level 3



Note: Plan drawings do NOT provide any space for 1) Raw Materials Storage, 2) Finished product movement (Finishing), or 3) Finished Product Storage.

Configured Manufacturing Systems: Cultured Marble Manufacturing - Level 3

Manufacturing Equipment Package

Dwg	Item Number	Description	Qty	UM	Dwg #	Item Number	Description	Qty	UM
1	083087	Cart Track 10'	37	Ea	15	A55 A-5 Conveyor 5' Addition	1	Ea	
2	083079	Standard Exchange Cart 12'	4	Ea	16	A1110S A-11 Conveyor 10' Complete	2	Ea	
3	110071	Hi-Boy Cart 12' with Battery			16	A1110 A-11 Conveyor 10' Addition	6	Ea	
		Power	2	Ea	17	MD5L9610S Conveyor, 5L, 2W, 96" ID x 10'			
4	083161	Tilt/Rotate Gelcoat Cart 12'	1	Ea		Complete	2	Ea	
5	0830613F	Rotate Gelcoat Cart 12' Finish	1	Ea	17	MD5L9610 Conveyor, 5L, 2W, 96" ID x 10'			
6	083084	Cart, EVTC Elevating, Vibrating, Transverse Casting	1	Ea		Addition	6	Ea	
7	GCEL9630S	Gelcoat Conveyor, EL, 1L, 2W, 96" x 30' Complete	1	Ea	18	083083 Tub Vibrator 12' with Pneumatic Vibrator	2	Ea	
7	GC9610	Gelcoat Conveyor, 1L, 2W, 96" x 10' Addition	1	Ea	19	083081 Vibration Table 12' with Pneumatic Vibrator	2	Ea	
8	111160	GF-14-7-8 Spraybooth - 2 Door	1	Ea	20	A1110S A-11 Conveyor 10' Complete	1	Ea	
9	A1112S	A-11 Conveyor 12' Complete	1	Ea	20	A1110 A-11 Conveyor 10 Addition	2	Ea	
9	A115	A-11 Conveyor 5' Addition	1	Ea	21	083194 Tub Lifter Gantry, 3-Leg	1	Ea	
10	A510S	A-5 Conveyor 10' Complete	3	Ea	21	083198 Tub Rotator - Standard Tubs	1	Ea	
10	A510	A-5 Conveyor 10' Addition	9	Ea	21	083193 Tub Lifter, 2 Cup with Straps	1	Ea	
11	A510S	A-5 Conveyor 10' Complete	2	Ea	22	083855 1000 lb Elect Hoist with Chain Conveyor	1	Ea	
11	A510	A-5 Conveyor 10' Addition	4	Ea	22	083854 1000 lb Trolley	1	Ea	
12	A810S	A-8 Conveyor 10' Complete	1	Ea	23	1000AW2H Autocaster Ultra - No Options	1	Ea	
12	A810	A-8 Conveyor 10' Addition	3	Ea	24	1000AGH Ground Hopper Autocaster	2	Ea	
13	A810S	A-8 Conveyor 10' Complete	1	Ea	24	150160 Frame, Standard Bulk Bag Suspender, Groundhopper	2	Ea	
13	A810	A-8 Conveyor 10' Addition	2	Ea	25	103503 Mixer 350 lb, 240/3PH/60 W/D	1	Ea	
14	A512S	A-5 Conveyor 12' Complete	1	Ea	26	103504 Pot, 350 Stainless Steel Mixing Vessel	1	Ea	
14	A510	A-5 Conveyor 10' Addition	2	Ea	27	111680 GS1500 Marbleclean with 4 Drums	1	Ea	
15	A510S	A-5 Conveyor 10' Complete	1	Ea					
15	A510	A-5 Conveyor 10' Addition	1	Ea					
					28	110310 Mixing Pot Washtub	1	Ea	
					29	110311 Solvent Wash Tank	1	Ea	
					30	164004CMB CMB-14-7-8 Grind Booth	1	Ea	

* This price includes crating as required for the equipment listed above.

Total Manufacturing Equipment Package - \$343,751.49 USD

Configured Manufacturing Systems: Cultured Marble Manufacturing - Level 3

(continued)

Total Production Mold Package - \$146,705.41 USD

Production Mold Package

Qty Part No. Description	Qty Part No. Description
OVAL COLLECTION	STANDARD PACKAGE
1 29044M Mark 44 Corner Tub 60"x60"	2 64104M 4104 Bathtub 1900mmx720mm
1 490448M F-Mark 44 Female	2 841048M F-4104 1900mm Tub Female
2 29022M Mark 22 Oval Tub 36" x 72"	2 29023M Mark 23 Bathtub 31" x 61"
2 490228M F-mark 22 Female	2 490238M F-Mark 23 Bathtub Female
2 22760M 170-9 Wall Panel 60" x 60"	4 22790M 170-10 Wall Panel 32" x 60"
2 22757M 170-6 Wall Panel 60" x 72"	2 22777M 170-15 Tub Skirt 20" x 120"
2 22777M 170-15 Tub Skirt 20" x 120"	2 22757M 170-6 Wall Panel 60" x 72"
2 22754M 170-3 Wall Panel 36" x 72"	2 22760M 170-9 Wall Panel 60" x 60"
6 20515M 110-NB-146 Countertop Deck	2 20029M 108 LL Deep Newport Floating Bowl
4 20074M 108-OL Opal Floating Bowl	2 400297 FFF-108 LL Deep Newport
4 400747M Fff -OL Opal Bowl Female	6 20028M 108-N Laguna Floating Bowl
4 20004M 108-PL Pearl Floating Bowl	6 400287M FFF-N Laguna Female
4 400047M FFF-PL Pearl Female	4 20045M 108-NS Waikiki Floating Bowl
2 22855M 180-55 Opal Shampoo Holder	4 400287M FFF-NS Waikiki Female
2 428554M FFL-180-55 Opal Shampoo Female	4 22817M 180-17 Soap/Shampoo Holder
2 22853M 180-53 Opal Paper Holder	4 428178M FFO-180-17 Soap/shampoo Holder Female
2 428544M FFL 180-53 Paper Female	4 22807M 108-7 Paper Holder
	4 428078M FFO-180-7 Paper Female
	MISCELLANEOUS MOLDS
	4 22814M Combination Trim
	2 28101M Oval Sample Mold - 24 Cavity
	1 22797M Wall Panel - Meta 170 - 84 x 120 x 3/8"

* Includes optional Mold Track

** Includes optional
OvalOverflow

Total Production Mold Package - \$146,705.41 USD

Configured Manufacturing Systems: Cultured Marble Manufacturing - Level 3

(continued)

Production Supplies Package

This comprehensive package of consumable supplies and fabrication tools is required in the daily manufacturing process. The quantity of supplies in this package is estimated to be sufficient to serve the initial start-up and commissioning period as well as the first 90 days production.

TOOLS	4 023058 FS-02593-50F 1000 Mil Beaker 100/Case
Qty Part No. Description	1 023038 FS-02-117 Platform Scale
1 GCG2H Gelcoat Spray System	2 023040 FS-801DT Gram Beam Balance
1 100017 Pneumatic Clay Extruder	2 023051 FS-14-648-1 Stop Watch
20 020400 Mil Gauge	4 023052 FS-14-990c O-300 Thermometer
10 01032 Waxing Tool #2	4 023049 FS-13-700 Dropper 144/pkg
10 01031 Waxing Tool #1	2 023042 FS-15 47416 Water Bath
1 02007 Catalyst Dispenser	2 Stir Sticks - 1000/box
8 02010 Graber (Double)	1 105-1117 2 Quart Spray System
12 102050 Air Polisher/Grinder	1 105-1131 1 Quart Siphon System
8 Rubber Backing Pad	1 54-3918 Gun Wrench
8 102062 Grinding Disc Backing Plate	CONSUMABLE SUPPLIES
4 100004 Buffing Brick Holder	200 102061 7"x 7/8" 24-grit Grinding Disc
8 01017 Buffing Pad Cleaning Tool	150 020280 3" Buffing Pad
4 02008 Pneumatic Air Thing	150 02027 3" Grinding Disc
4 102080 Die Grinder/Right Angle Head	75 010066 Wooden Wedges/100
8 020281 1/4" Collet	50 010629 Grcare™ Release 15 Oz Case/12
8 020282 1/8" Collet Adaptor	2 010633 Grcare™ PVA Cnt 32 Oz Case/6
8 020283 1/8" Grinding Tip Ball	2 010627 Grcare™ Sealer 32 Oz Case/10
8 020284 1/8" Grinding Tip Cone	5 010623 Grrcare™ Interphase Wax 32 Oz Case/12
8 020285 1/8" Grinding Tip Cylinder	2 010615 Grcare Stripper 32 Oz Case/12
8 020300 Rubber Mallet	10 PD1002 Plastic Dividers 3/8"
4 02028 3" Backplate For Pad	5 00104-5G Oval Polycollar /500
50 010063 Plastic Wedges	25 00026G Overflow Pipe /100
8 020430 Hole Saw, 7/8"	25 00108C Beauty Rings Oval Chrome/100
8 020461 Hole Saw, 1-1/8"	5 00005 Floating Unit Assembly/1000
8 020465 Hole Saw, 1-1/4 1 & 1-3/8"	25 010138 Cotton Wipes/25 lb
8 020439 Hole Saw, 2 3/8"	12 010164B Buffing Pads - 36/case
8 020451 Hole Saw Shank, Small	3 010152 Buffing Bricks/barrel
8 020452 Hole Saw Shank, Large	20 AM010188 Masking Tape 2" - 24/case
150 103615 Gee Mold Clamp	40 AM010184 Masking Tape 3/4" - 48/case
10 010752 End Stop Divider 110	25 X010193 Spl. Dbl Act Mask Tape Case/48
10 010753 End Stop Divider 111	4 02210 Permoplast Tooling Clay Case/50 Lb
8 01087 End Stop Divider 340	4 02214 X-wax Soft Case 24/lb
25 01130 Standard Polydome	144 191088 Silicone Tube
25 01124 Overflow Stem	1 023011 Sandpaper #600 Wet/Dry - 50 ct
25 011271 11 1/2" Stem Assembly	1 023012 Sandpaper #400 Wet/Dry - 50 ct
10 020260 Pot Scraper	1 023013 Sandpaper #320 Wet/Dry - 50 ct
4 191089 Caulking Guns	1 023014 Sandpaper #220 Wet/Dry - 50 ct
25 023030 Pinch Clamps	1 023015 Sandpaper #100 Garnet - 100 ct

10	023033	3" Putty Knife	1	023016	Sandpaper #80 Garnet – 50 ct
6	112097	2" Drum Gate Valve	1	023017	Sandpaper #36 Garnet – 50 ct
25	102096	Pipe Clamp			
1	023036	Binks 31-295 Agitator			
4	023043	FS-08570-21E 250 Mil Cylder 8/pkg			
4	023044	FS-08570-21G 1000 Mil Cylinder 4/pkg			
4	023048	FS-02593-50C 250 Mil Beaker 100/Case			