

| Product name | Helium Filled Bubble Generator | | | | | | | | |
|--------------|--|----------|-------------------------------------|---------------------------------------|----------------------|------------------------------|------------------|----------------------|------------|
| Team | F22_P16 | | | | | | | | |
| Part # | Part Name | Quantity | Description | Functions | Material | Price per unit (\$) | Total price (\$) | Source | Notes |
| E2 | Power Cord | 1 | Connects to device and wall | Supply power to the device | Plastic,Copper | \$7.99 | \$7.99 | Provided | |
| M1 | Nozzle | 5 | Attached to connectors | Provide a space for the fluids to mix | Resin/Brass | \$12.38 | \$61.90 | Link | |
| M2 | Helium Tank | 1 | Helium filled tank | Storage of Helium | Helium, Steel | \$80.00 | \$80.00 | Link | |
| M3 | Air Compressor | 1 | Air storage and supply | Pump air through nozzle | Steel | \$170.00 | \$170.00 | Provided | |
| M4 | Water Pump | 1 | BSF storage | Pump the BSF through nozzle | Plastic,Aluminum | \$280.00 | \$280.00 | Link | |
| M5 | 3D Print of 3rd layer adapter | 1 | 3D print for testing | Testing | Resin/PLA | \$0.00 | \$0.00 | Provided | |
| M6 | M17 x 1.5mm Tap | 1 | Tap the third layer adapter | Tap | Steel | \$27.68 | \$27.68 | Link | |
| M7 | Bubble Solution | 1 | Bubble solution formula | One of the fluids for the bubble | Fluid Solution | \$50.00 | \$50.00 | Provided | |
| M8 | High Speed Camera | 1 | High speed camera for imaging | Captures the microscopic bubbles | electronics/aluminum | ~20,000.00 | \$20,000.00 | Provided | |
| M9 | Hose Fitting: 3/8" Hose-1/8" NPT | 10 | Connect flowmeters to hose | Connections | Brass | \$1.40 | \$14.00 | Link | |
| M10 | M18 x 1.5mm Tap | 1 | Tapping 3rd layer adapter | - | - | \$25.00 | \$25.00 | Quality Tool | Reimbursed |
| M11 | 16.5 mm Drill Bit | | Drill bit | - | - | \$30.00 | \$30.00 | Quality tool | Reimbursed |
| M12 | Hose T-Fitting: 3/8" x 1/4" x 3/8" Hose ID | 2 | Convert hose size from 1/4" to 3/8" | Connections | Brass | \$3.65 | \$7.30 | Link | |
| | | | | | | Total without provided items | \$470.88 | | |
| | | | | | | Current State of the Budget | Under Budget | | |