



Cylinder Cell Production Line Quotation

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Item	Description	Qty.	Unit Price	Ext. Amount
1	1200°C Split Tube Furnace with Vacuum Flanges & Optional Quartz Tube 80mm, 208-240VAC, Single Phase,50/60Hz - OTF-1200X-80 -Utility: Sintering and synthesizing electrode powder -Necessary -Alternative: 1. All MTI's furnace can be used for powder sintering http://www.mtixtl.com/tubefurnaces.aspx 2. Strongly suggest "Rotary Furnace" for best sintering result http://www.mtixtl.com/rotarytubefurnaces.aspx	1	\$5,000.00	\$5,000.00
2	Bench-Top Planetary Automatic Ball Mills with 4 Alumina Jars (4x500ml), 208-240VAC, Single Phase,50/60Hz - MSK-SFM-1 -Utility: Ball mill for electrode powder -Necessary -Alternative: Mill for smaller quantity (MSK-SFM-3, \$2,900.00): http://www.mtixtl.com/sfm-3desk-tophighspeedvibratingballmillwith80mlstainlesssteeljar.aspx	1	\$5,900.00	\$5,900.00
3	Vacuum Mixer with 5L Water Cold Stainless Steel Tank and Vacuum Pump, 208-240VAC, Single Phase,50/60Hz - MSK-SFM-6 -Slurry mixing/stirring under vacuum -Necessary -Alternative: Mixer for smaller quantity (MSK-SFM-7, \$2,600.00): http://www.mtixtl.com/Desk-TopSteplessSpeedVariationVacuumMixer500-1000mlwithBuild-inV.aspx	1	\$5,000.00	\$5,000.00
4	Automatic Film Coater with Cover Heater, Vacuum Pump & Micrometer Film Applicator, 208-240VAC, Single Phase,50/60Hz- MSK-AFA-III -Utility: Electrode slurry coating on substrate (current collector) -Necessary -Alternative: For larger scale production (MSK-AFA-E300, \$65,000.00): http://www.mtixtl.com/AutomaticBatteryElectrodeCoatingSystemwithSlurryFeederCoaterRoll.aspx	1	\$7,000.00	\$7,000.00
5	Precision 4" Hot Rolling Press/Calender up to 130°C, 208-240VAC, Single Phase,50/60Hz - MSK-HRP-01 -Utility: Calendering the coated electrode -Necessary - Alternative: For bigger calendering size (MSK-HRP-02, \$13,000.00): http://mtixtl.com/BenchTopPrecisionAutomaticHeatingRollingPress-MSK-HRP-02.aspx	1	\$8,600.00	\$8,600.00

6	<p>Semi-Automatic Slitting Machine for Electrodes of Cylinder Battery - MSK-CSE-300 -Utility: Cutting/slitting the electrode to proper size/shape for easy winding -Necessary available in MTI</p> <p>Alternative: No alternative</p>	1	\$12,000.00	\$12,000.00
7	<p>Desk-Top Ultrasonic Metal Welder, 40KHz, 110VAC or 208-240VAC, Single Phase,50/60Hz - MSK-800 -Utility: Welding tab onto current collector and welding layers of current collector together -Necessary</p> <p>Alternative: No alternative, spot welding machine is not suitable</p>	1	\$22,000.00	\$22,000.00
8	<p>Bench-Top Vacuum Oven (16x13x14", 53L, 250°C) With 28 Segments Temperature Controller, 110VAC or 208-240VAC, Single Phase,50/60Hz - EQ-DZF-6050 -Utility: Drying the electrode under vacuum before pouch cell assembly -Necessary</p> <p>Alternative: No alternative</p>	1	\$1,900.00	\$1,900.00
9	<p>Semi-Automatic Winding Machine for Electrodes of Cylinder Cell,110VAC or 208-240VAC, Single Phase,50/60Hz - MSK-112A-Cylinder -Utility: Winding the Anode+Separator+Cathode to cylinder shape as cell core -Necessary</p> <p>Alternative: Manual winding by researcher (Layers alignment and contact may be very bad if by manual winding)</p>	1	\$3,000.00	\$3,000.00
10	<p>Precise Pneumatic Point Welding Machine for Professional Li-on Battery Research, 208-240 V, Single Phase 50/60Hz- MSK-330A -Utility: 1. Welding the tab from anode to the bottom end inside the case by deeply inserting the welding head into the case 2. Welding the tab from cathode to the cap coming from the top end of the case 3. Welding the terminal for positive and negative of the battery for testing connection -Necessary</p> <p>Alternative: No alternative</p>	1	\$3,500.00	\$3,500.00
11	<p>Desk-top Semi-Auto Grooving Machine for 18650 Cylinder Cell, 110VAC or 208-240VAC, Single Phase,50/60Hz - MSK-500-18650 -Utility: 1. Grooving the case to fix the cell core 2. Leaving the part above grooving as crimping part -Necessary</p> <p>Alternative: No alternative</p>	1	\$8,000.00	\$8,000.00
12	<p>Large Glove Box (122Wx90Hx 76D, CN) with Gas Purification System and Digital Control, 208-240VAC, Single Phase,50/60Hz - EQ-VGB-6 -Utility: Offering environment with H₂O<10ppm (the lower the better) to inject electrolyte, cell vacuum standing and case crimping -Necessary</p> <p>Alternative: Dry Room with H₂O<-40C.D.P (MTI does not provide dry room, please contact a individual supplier)</p>	1	\$32,000.00	\$32,000.00

13	Bottletop Electrolyte Digital Dispenser with 1000mL Stainless Steel Bottle: 1-10 ml adjustable - BD-10ML -Utility: Injecting electrolyte into the pouch cell -Necessary Alternative: Simply by syringe injection	1	\$500.00	\$500.00
14	Vacuum Standing Box for Professional Li-on Battery Research, 208-240VAC, Single Phase,50/60Hz - MSK-170 -Utility: 1. Vacuuming the air out of the cell after electrolyte injection 2. The electrolyte will be completely absorbed by the layers and the layers will contact very well under vacuum environment -Necessary but often ignored by researcher Alternative: No alternative	1	\$6,700.00	\$6,700.00
15	Desk-top Hydraulic Sealing Machine for 18650 Cylinder Cell - MSK-510-18650 -Utility: Crimping the cell in glove box after electrolyte injection -Necessary Alternative: No alternative	1	\$5,500.00	\$5,500.00
16	8 Channels Battery Analyzer (6-3000mA, up to 5V) with Laptop and Software for R&D all Rechargeable Cells,110VAC or 208-240VAC, Single Phase,50/60Hz - BST8-3 -Utility: 1. Activating the battery after crimping (cell formation) 2. Doing charge/discharge cycling to determine battery's conduction like capacity,cycle life and efficiency. -Necessary Alternative if different current/voltage requirement (1uA-10A/5V-50V, other range is customizable) : http://www.mtixtl.com/batterytestingsystems.aspx	1	\$3,000.00	\$3,000.00
Sub Total (FOB US 94804)				\$129,600.00
Crating and handling				TBD
LTL Freight shipping and insurance from CA 94804 to customer				TBD
Total Amount				TBD
Issued	MTI Sales	Signature:	Date	XX/XX/20XX
<p>Delivery: 2-4 weeks after receipt of your order and payment if all equipments in stock 6-8 weeks after receipt of your order and payment if some equipments out of stock</p> <p>Both product availability and price are subject to change without notice before the receipt of PO</p>				

Please Note:

1. This quotation is created for customer's budget planning on setting up a cylinder cell R&D lab, please contact us and ask for a real quotation according to your specification and maximize the cost performance.

2. This quotation does not include consumbles like cases and tapes, please visit our web <http://www.mtixtl.com/batterycapacitorequipment.aspx> for details.

3. The products with price in this quotation are subject to change without notice, please contact MTI for update.

Thanks and Regards